



SYNERGY
RESOURCES CORPORATION

Synergy Resources Corporation

SEC 5-T5N-R66W

Boomerang 21-5

Boomerang 12N-6B-M

OH

Plan #1

Anticollision Report

05 April, 2017

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	4/5/2017		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	15,618.10	Plan #1 (OH)	MWD+IFR1	OWSG MWD + IFR1

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Boomerang 21-5						
Boomerang 12C-6-M - OH - Plan #1	200.00	200.00	15.01	8.34	2.249	CC
Boomerang 12C-6-M - OH - Plan #1	15,618.10	15,699.55	286.90	-113.72	0.716	Level 1, ES, SF
Boomerang 13C-6-M - OH - Plan #1	200.00	200.00	75.03	68.36	11.242	CC, ES
Boomerang 13C-6-M - OH - Plan #1	15,618.10	15,667.53	1,011.65	520.36	2.059	SF
Boomerang 13N-6B-M - OH - Plan #1	200.00	200.00	60.03	53.36	8.995	CC, ES
Boomerang 13N-6B-M - OH - Plan #1	15,618.10	15,437.73	821.60	324.68	1.653	SF
Boomerang 25N-3A-L - OH - Plan #1	453.42	450.18	56.86	49.44	7.657	CC, ES
Boomerang 25N-3A-L - OH - Plan #1	7,050.00	7,305.93	443.02	374.98	6.511	SF
Boomerang 25N-3B-L - OH - Plan #1	200.00	200.00	75.06	68.38	11.246	CC, ES
Boomerang 25N-3B-L - OH - Plan #1	7,400.00	7,073.83	515.62	446.36	7.444	SF
Boomerang 28C-3-L - OH - Plan #1	200.00	200.00	150.07	143.39	22.485	CC, ES
Boomerang 28C-3-L - OH - Plan #1	300.00	294.97	152.92	146.03	22.199	SF
Boomerang 28N-3A-L - OH - Plan #1	200.00	200.00	135.06	128.39	20.237	CC, ES
Boomerang 28N-3A-L - OH - Plan #1	300.00	295.48	137.91	131.02	20.018	SF
Boomerang 32C-6-M - OH - Plan #1	200.00	200.00	30.03	23.36	4.499	CC
Boomerang 32C-6-M - OH - Plan #1	15,600.00	15,842.28	447.93	-8.70	0.981	Level 1, ES, SF
Boomerang 32N-6B-M - OH - Plan #1	499.66	496.98	41.31	33.68	5.418	CC
Boomerang 32N-6B-M - OH - Plan #1	500.00	497.32	41.31	33.68	5.417	ES
Boomerang 32N-6B-M - OH - Plan #1	15,599.33	15,741.47	604.10	101.82	1.203	Level 2, SF
Boomerang 32N-6C-M - OH - Plan #1	497.00	496.43	11.45	3.85	1.507	CC
Boomerang 32N-6C-M - OH - Plan #1	15,618.10	15,715.18	231.98	-244.55	0.487	Level 1, ES, SF
Boomerang 33C-6-M - OH - Plan #1	200.00	200.00	45.00	38.33	6.743	CC, ES
Boomerang 33C-6-M - OH - Plan #1	15,618.10	15,635.21	683.81	201.86	1.419	Level 3, SF
Boomerang 33N-6C-M - OH - Plan #1	200.00	200.00	30.00	23.33	4.495	CC
Boomerang 33N-6C-M - OH - Plan #1	15,618.10	15,576.86	444.41	-84.54	0.840	Level 1, ES, SF
Boomerang 34C-6-M - OH - Plan #1	200.00	200.00	105.03	98.36	15.738	CC, ES
Boomerang 34C-6-M - OH - Plan #1	15,618.10	15,635.89	1,420.48	929.31	2.892	SF
Boomerang 34N-6A-M - OH - Plan #1	200.00	200.00	90.03	83.36	13.490	CC, ES
Boomerang 34N-6A-M - OH - Plan #1	15,618.10	15,335.52	1,209.80	715.34	2.447	SF
Boomerang 34N-6C-M - OH - Plan #1	200.00	200.00	120.07	113.39	17.990	CC, ES
Boomerang 34N-6C-M - OH - Plan #1	15,618.10	15,495.60	1,760.69	1,268.26	3.576	SF
FRAKER #1 - OH - OH	12,164.46	6,909.25	1,289.46	895.87	3.276	CC
FRAKER #1 - OH - OH	12,200.00	6,908.87	1,289.95	895.39	3.269	ES
FRAKER #1 - OH - OH	12,300.00	6,907.79	1,296.56	899.90	3.269	SF
FRAKER J #6-2 - OH - OH	11,944.09	6,867.63	121.18	-264.83	0.314	Level 1, CC, ES, SF
GREELEY TECH CENTER #41-5 - OH - OH	6,456.00	6,326.56	1,557.78	1,501.52	27.693	CC, ES
GREELEY TECH CENTER #41-5 - OH - OH	6,600.00	6,485.06	1,573.22	1,515.85	27.424	SF

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Boomerang 21-5						
KELLY # 1-3 - OH - OH	6,451.69	6,285.42	8,211.13	7,963.66	33.181	CC
KELLY # 1-3 - OH - OH	6,500.00	6,333.68	8,212.92	7,963.59	32.940	ES
KELLY # 1-3 - OH - OH	7,000.00	6,768.41	8,427.85	8,162.10	31.714	SF
KELLY #2-3 - OH - OH	6,451.69	6,269.42	9,400.26	9,153.68	38.122	CC
KELLY #2-3 - OH - OH	6,500.00	6,317.68	9,402.09	9,153.65	37.843	ES
KELLY #2-3 - OH - OH	7,050.00	6,783.46	9,661.09	9,395.23	36.340	SF
Kelly Farms #12-4-3CHZ - OH - OH	5,833.40	5,676.52	4,552.11	4,500.32	87.881	CC
Kelly Farms #12-4-3CHZ - OH - OH	6,415.01	6,264.57	4,553.68	4,497.16	80.575	ES
Kelly Farms #12-4-3CHZ - OH - OH	6,600.00	6,342.00	4,572.32	4,514.77	79.454	SF
Kelly Farms #22-4-3CHZ - OH - OH	6,371.88	6,217.75	4,699.06	4,642.35	82.853	CC
Kelly Farms #22-4-3CHZ - OH - OH	6,451.69	6,280.48	4,699.31	4,642.01	82.012	ES
Kelly Farms #22-4-3CHZ - OH - OH	6,500.00	6,500.00	4,700.98	4,642.59	80.506	SF
Kelly Farms #A-4-3CHZ - oH - OH	6,452.60	6,318.07	4,588.72	4,531.25	79.847	CC, ES
Kelly Farms #A-4-3CHZ - oH - OH	6,650.00	6,441.00	4,619.69	4,561.01	78.723	SF
Kelly Farms #A-4-3NHZ - OH - OH	6,215.60	6,082.00	4,449.78	4,393.01	78.384	CC, ES
Kelly Farms #A-4-3NHZ - OH - OH	6,600.00	6,260.00	4,475.20	4,416.23	75.893	SF
LA POUUDRE SOUTH #4 - OH - OH	13,505.56	6,917.78	1,428.11	996.86	3.312	CC, ES
LA POUUDRE SOUTH #4 - OH - OH	13,600.00	6,916.77	1,431.23	997.90	3.303	SF
Orr 36C-32-M - OH - OH	7,300.00	16,159.08	882.50	554.78	2.693	SF
Orr 36C-32-M - OH - OH	7,350.00	16,107.17	881.39	554.24	2.694	ES
Orr 36C-32-M - OH - OH	9,734.26	13,707.81	877.22	576.54	2.917	CC
Orr State 36N-35C-M - OH - OH	15,538.85	7,351.26	785.01	499.91	2.753	CC
Orr State 36N-35C-M - OH - OH	15,600.00	7,390.22	786.05	498.96	2.738	ES
Orr State 36N-35C-M - OH - OH	15,618.10	7,402.18	786.73	499.13	2.735	SF
PEANUT #1 - OH - OH	15,127.71	6,854.29	95.82	-378.70	0.202	Level 1, CC, ES, SF
REICHERT #1-6 - OH - OH	13,662.03	6,918.10	63.81	-371.82	0.146	Level 1, CC, ES, SF
ROTHE #1-14 - OH - OH	15,618.10	6,905.00	1,555.01	1,093.50	3.369	CC, ES, SF
SOUTH #6-21D - OH - OH	13,561.82	7,225.90	98.74	-128.16	0.435	Level 1, CC, ES, SF
SOUTH #6-22D - OH - OH	13,716.02	6,973.56	1,227.15	997.90	5.353	CC, ES
SOUTH #6-22D - OH - OH	13,800.00	6,973.70	1,230.02	998.97	5.324	SF
SOUTH #6-23D - OH - OH	13,867.00	6,959.80	2,624.42	2,388.98	11.147	CC
SOUTH #6-23D - OH - OH	13,900.00	6,959.83	2,624.62	2,388.15	11.099	ES
SOUTH #6-23D - OH - OH	14,400.00	6,960.34	2,677.99	2,429.73	10.787	SF
SOUTH #6-24D - OH - OH	13,894.76	6,035.39	3,793.24	3,567.55	16.807	CC
SOUTH #6-24D - OH - OH	14,500.00	14,500.00	3,840.17	3,517.49	11.901	ES
SOUTH #6-24D - OH - OH	14,600.00	14,600.00	3,856.57	3,528.44	11.753	SF
SRC #31-5D - OH - OH	6,258.35	6,370.15	132.09	70.84	2.157	CC
SRC #31-5D - OH - OH	6,457.97	6,570.60	132.61	70.24	2.126	ES, SF
SRC Northridge #11-4D - OH - OH	6,461.41	6,825.25	2,811.04	2,706.08	26.783	CC, ES
SRC Northridge #11-4D - OH - OH	6,550.00	6,920.99	2,817.07	2,711.62	26.715	SF
SRC Northridge #12-4D - OH - OH	6,467.85	6,657.02	3,195.35	3,121.41	43.216	CC, ES
SRC Northridge #12-4D - OH - OH	6,550.00	6,715.43	3,200.41	3,126.10	43.069	SF
SRC Northridge #21-4D - OH - OH	6,462.97	6,571.24	4,117.93	4,045.75	57.051	CC, ES
SRC Northridge #21-4D - OH - OH	6,650.00	6,749.14	4,145.36	4,072.05	56.549	SF
SRC Northridge #22-4D - OH - OH	5,186.61	5,065.90	4,355.28	4,309.82	95.808	CC
SRC Northridge #22-4D - OH - OH	5,200.00	5,065.90	4,355.30	4,309.79	95.705	ES
SRC Northridge #22-4D - OH - OH	6,000.00	5,065.90	4,430.58	4,382.86	92.840	SF
SRC Northridge #4AD - OH - OH	6,467.79	6,555.05	3,640.45	3,578.88	59.130	CC, ES
SRC Northridge #4AD - OH - OH	6,750.00	6,846.28	3,699.59	3,636.00	58.187	SF
SRC Northridge #4KD - OH - OH	6,170.90	6,220.27	3,944.79	3,857.64	45.264	CC
SRC Northridge #4KD - OH - OH	6,451.69	6,494.51	3,945.22	3,856.47	44.451	ES
SRC Northridge #4KD - OH - OH	6,600.00	6,627.16	3,960.00	3,870.53	44.258	SF
SRC Wiedeman #11-5-3NCHZ - OH - OH	2,684.96	2,648.24	207.62	182.50	8.264	CC

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
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Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Boomerang 21-5						
SRC Wiedeman #11-5-3NCHZ - OH - OH	2,700.00	2,662.76	207.66	182.41	8.222	ES
SRC Wiedeman #11-5-3NCHZ - OH - OH	7,078.16	6,902.49	361.53	298.75	5.759	SF
SRC Wiedeman #12-5-4CHZ - OH - OH	1,792.05	1,746.22	331.29	313.92	19.069	CC
SRC Wiedeman #12-5-4CHZ - OH - OH	1,800.00	1,753.23	331.30	313.86	18.994	ES
SRC Wiedeman #12-5-4CHZ - OH - OH	7,400.00	6,880.94	938.13	871.96	14.178	SF
SRC Wiedeman #12-5-4NCHZ - OH - OH	1,761.10	1,718.32	367.84	350.79	21.564	CC, ES
SRC Wiedeman #12-5-4CHZ - OH - OH	7,600.00	6,761.54	1,178.28	1,110.39	17.357	SF
SRC Wiedeman #21-5-3CHZ - OH - OH	2,864.45	2,807.25	41.39	14.33	1.529	CC, ES, SF
SRC Wiedeman #21-5-3NBHZ - OH - OH	2,820.29	2,777.80	130.46	104.14	4.956	CC
SRC Wiedeman #21-5-3NBHZ - OH - OH	7,029.97	6,906.53	139.66	76.86	2.224	ES, SF
SRC Wiedeman #22-5-4CHZ - OH - OH	1,194.29	1,146.76	438.92	426.50	35.348	CC
SRC Wiedeman #22-5-4CHZ - OH - OH	1,200.00	1,151.60	438.93	426.46	35.216	ES
SRC Wiedeman #22-5-4CHZ - OH - OH	8,100.00	6,803.00	1,753.12	1,674.07	22.176	SF
SRC Wiedeman #A-5-3NBHZ - OH - OH	2,355.79	2,316.12	307.41	285.17	13.821	CC, ES
SRC Wiedeman #A-5-3NBHZ - OH - OH	7,071.24	6,869.38	577.71	515.05	9.220	SF
SRC Wiedeman 22-5-4NBHZ - OH - OH	8,689.31	2,067.57	575.43	505.92	8.279	CC
SRC Wiedeman 22-5-4NBHZ - OH - OH	8,700.00	2,067.78	575.53	505.71	8.244	ES
SRC Wiedeman 22-5-4NBHZ - OH - OH	8,800.00	2,069.65	585.97	514.01	8.143	SF
WIEDEMAN #18-5 - OH - OH	8,731.68	6,938.25	636.21	543.93	6.895	CC, ES
WIEDEMAN #18-5 - OH - OH	8,800.00	6,938.15	639.86	545.93	6.812	SF
WIEDEMAN #22-5 - OH - OH	1,356.10	1,517.77	900.38	885.53	60.612	CC
WIEDEMAN #22-5 - OH - OH	1,400.00	1,555.84	900.57	885.31	59.009	ES
WIEDEMAN #22-5 - OH - OH	8,800.00	8,800.00	2,352.65	2,255.32	24.172	SF
WIEDEMAN #25-5 - OH - OH	100.00	60.71	971.82	965.25	147.853	CC, ES
WIEDEMAN #25-5 - OH - OH	9,700.00	7,148.32	2,108.74	1,989.27	17.651	SF
WIEDEMAN #29-5 - OH - OH	8,574.82	7,038.45	714.98	625.06	7.952	CC
WIEDEMAN #29-5 - OH - OH	8,600.00	7,038.01	715.42	625.06	7.917	ES
WIEDEMAN #29-5 - OH - OH	8,700.00	7,036.29	725.85	634.09	7.910	SF
WIEDEMAN #3-5 - OH - OH	7,975.67	7,012.04	124.86	45.31	1.569	CC, ES, SF
WIEDEMAN #4-5 - OH - OH	9,285.51	7,001.05	153.47	43.91	1.401	Level 3, CC, ES, SF
WIEDEMAN #5-5 - OH - OH	100.00	57.12	981.54	974.97	149.350	CC, ES
WIEDEMAN #5-5 - OH - OH	9,800.00	7,120.22	1,297.85	1,171.87	10.302	SF
WIEDEMAN #6-5 - OH - OH	646.32	714.59	941.20	932.37	106.686	CC, ES
WIEDEMAN #6-5 - OH - OH	8,500.00	7,274.82	1,407.55	1,320.30	16.132	SF

Offset Design													Offset Site Error:	0.00 ft	
Boomerang 21-5 - Boomerang 12C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft	
Survey Program: 0-MWD+IFR1															
Reference		Offset		Semi Major Axis			Distance			Minimum Separation		Separation Factor		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	-174.68	-14.94	-1.39	15.01						
100.00	100.00	100.00	100.00	3.28	3.28	-174.68	-14.94	-1.39	15.01	8.44	6.57	2.285			
200.00	200.00	200.00	200.00	3.34	3.34	-174.68	-14.94	-1.39	15.01	8.34	6.67	2.249	CC		
300.00	299.98	299.98	299.98	3.44	3.44	137.88	-14.94	-1.39	16.26	9.37	6.89	2.360			
400.00	399.84	400.29	400.26	3.61	3.60	143.95	-14.25	0.22	19.29	12.09	7.21	2.677			
500.00	499.45	500.69	500.53	3.81	3.81	146.57	-12.16	5.06	23.05	15.43	7.62	3.024			
600.00	598.70	601.19	600.64	4.06	4.05	146.95	-8.67	13.13	27.41	19.28	8.13	3.372			
700.00	697.47	701.77	700.45	4.35	4.33	145.97	-3.80	24.43	32.33	23.63	8.70	3.715			
800.00	795.62	801.88	799.42	4.66	4.64	144.99	2.17	38.26	38.27	28.94	9.33	4.102			
900.00	893.06	901.49	897.86	5.01	4.97	146.48	8.21	52.25	46.93	36.92	10.01	4.688			

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 12C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
961.44	952.51	962.54	958.19	5.25	5.18	148.12	11.92	60.83	53.71	43.26	10.45	5.140		
1,000.00	989.71	1,000.80	996.01	5.40	5.32	149.20	14.24	66.20	58.34	47.61	10.73	5.435		
1,100.00	1,086.20	1,100.04	1,094.08	5.81	5.69	151.35	20.25	80.14	70.43	58.94	11.49	6.130		
1,200.00	1,182.69	1,200.72	1,192.15	6.24	6.08	152.86	26.27	94.08	82.58	70.31	12.28	6.727		
1,300.00	1,279.18	1,301.48	1,290.22	6.69	6.48	153.99	32.29	108.02	94.78	81.69	13.09	7.242		
1,400.00	1,375.67	1,402.24	1,388.29	7.15	6.89	154.86	38.31	121.96	107.00	93.08	13.92	7.688		
1,500.00	1,472.15	1,503.00	1,486.36	7.62	7.31	155.55	44.32	135.89	119.24	104.48	14.77	8.076		
1,600.00	1,568.64	1,603.76	1,584.43	8.10	7.73	156.11	50.34	149.83	131.50	115.87	15.63	8.415		
1,700.00	1,665.13	1,704.53	1,682.50	8.59	8.16	156.57	56.36	163.77	143.77	127.27	16.50	8.713		
1,800.00	1,761.62	1,805.29	1,780.57	9.08	8.60	156.97	62.37	177.71	156.04	138.66	17.38	8.977		
1,900.00	1,858.11	1,906.05	1,878.64	9.58	9.03	157.30	68.39	191.65	168.32	150.05	18.27	9.211		
2,000.00	1,954.60	2,006.81	1,976.71	10.08	9.48	157.59	74.41	205.59	180.61	161.43	19.17	9.420		
2,100.00	2,051.09	2,107.57	2,074.78	10.59	9.92	157.84	80.43	219.53	192.89	172.82	20.08	9.608		
2,200.00	2,147.57	2,208.33	2,172.85	11.09	10.37	158.07	86.44	233.47	205.19	184.20	20.99	9.777		
2,300.00	2,244.06	2,309.09	2,270.92	11.61	10.82	158.26	92.46	247.40	217.48	195.58	21.90	9.929		
2,400.00	2,340.55	2,409.86	2,368.99	12.12	11.27	158.44	98.48	261.34	229.78	206.96	22.82	10.068		
2,500.00	2,437.04	2,489.38	2,467.06	12.64	11.63	158.60	104.50	275.28	242.08	218.43	23.65	10.235		
2,600.00	2,533.53	2,588.62	2,565.13	13.15	12.08	158.74	110.51	289.22	254.38	229.81	24.57	10.353		
2,700.00	2,630.02	2,687.86	2,663.20	13.67	12.53	158.87	116.53	303.16	266.68	241.19	25.49	10.461		
2,800.00	2,726.50	2,787.10	2,761.27	14.19	12.98	158.99	122.55	317.10	278.99	252.57	26.42	10.560		
2,900.00	2,822.99	2,886.34	2,859.34	14.72	13.44	159.10	128.57	331.04	291.29	263.95	27.35	10.652		
3,000.00	2,919.48	2,985.58	2,957.41	15.24	13.89	159.20	134.58	344.97	303.60	275.32	28.28	10.737		
3,100.00	3,015.97	3,084.81	3,055.48	15.76	14.34	159.29	140.60	358.91	315.91	286.70	29.21	10.815		
3,200.00	3,112.46	3,184.05	3,153.55	16.29	14.80	159.37	146.62	372.85	328.21	298.07	30.14	10.889		
3,300.00	3,208.95	3,283.29	3,251.63	16.81	15.26	159.45	152.64	386.79	340.52	309.44	31.08	10.957		
3,400.00	3,305.44	3,382.53	3,349.70	17.34	15.71	159.53	158.65	400.73	352.83	320.81	32.01	11.021		
3,500.00	3,401.92	3,481.77	3,447.77	17.87	16.17	159.60	164.67	414.67	365.14	332.19	32.95	11.081		
3,600.00	3,498.41	3,581.01	3,545.84	18.40	16.63	159.66	170.69	428.61	377.45	343.56	33.89	11.137		
3,700.00	3,594.90	3,680.25	3,643.91	18.93	17.09	159.72	176.70	442.55	389.76	354.93	34.83	11.189		
3,800.00	3,691.39	3,779.48	3,741.98	19.46	17.55	159.78	182.72	456.48	402.07	366.29	35.77	11.239		
3,900.00	3,787.88	3,878.72	3,840.05	19.99	18.01	159.83	188.74	470.42	414.38	377.66	36.72	11.286		
4,000.00	3,884.37	3,977.96	3,938.12	20.52	18.47	159.88	194.76	484.36	426.69	389.03	37.66	11.330		
4,100.00	3,980.85	4,077.20	4,036.19	21.05	18.93	159.92	200.77	498.30	439.00	400.40	38.60	11.372		
4,200.00	4,077.34	4,176.44	4,134.26	21.58	19.39	159.97	206.79	512.24	451.31	411.76	39.55	11.411		
4,300.00	4,173.83	4,275.68	4,232.33	22.11	19.85	160.01	212.81	526.18	463.63	423.13	40.50	11.449		
4,390.25	4,260.91	4,365.24	4,320.84	22.59	20.27	160.05	218.24	538.76	474.74	433.39	41.35	11.481		
4,400.00	4,270.32	4,374.92	4,330.40	22.64	20.31	160.06	218.83	540.12	475.92	434.48	41.44	11.484		
4,500.00	4,367.33	4,474.37	4,428.69	23.16	20.77	160.08	224.86	554.09	486.29	443.90	42.38	11.473		
4,600.00	4,465.13	4,574.10	4,527.24	23.65	21.24	159.95	230.90	568.09	493.38	450.06	43.32	11.389		
4,700.00	4,563.60	4,673.99	4,625.95	24.12	21.70	159.66	236.96	582.12	497.22	452.97	44.25	11.237		
4,800.00	4,662.61	4,773.90	4,724.69	24.56	22.17	159.21	243.02	596.16	497.80	452.64	45.17	11.021		
4,900.00	4,762.05	4,873.73	4,823.34	24.98	22.63	158.59	249.07	610.18	495.17	449.09	46.08	10.747		
5,000.00	4,861.80	4,973.34	4,921.78	25.38	23.10	157.79	255.11	624.17	489.36	442.38	46.98	10.417		
5,100.00	4,961.73	5,072.62	5,019.89	25.76	23.56	156.79	261.13	638.11	480.43	432.57	47.86	10.037		
5,151.69	5,013.42	5,123.77	5,070.44	25.95	23.80	-151.93	264.23	645.30	474.62	426.30	48.32	9.823		
5,200.00	5,061.73	5,171.51	5,117.62	26.13	24.02	-152.49	267.13	652.00	468.84	420.10	48.74	9.619		
5,300.00	5,161.73	5,270.34	5,215.28	26.49	24.49	-153.70	273.12	665.88	457.02	407.40	49.62	9.211		
5,400.00	5,261.73	5,369.16	5,312.94	26.86	24.95	-154.96	279.11	679.76	445.41	394.91	50.50	8.820		
5,500.00	5,361.73	5,467.98	5,410.60	27.23	25.41	-156.30	285.10	693.64	434.03	382.64	51.39	8.446		
5,600.00	5,461.73	5,566.80	5,508.26	27.60	25.87	-157.70	291.10	707.53	422.90	370.62	52.28	8.089		
5,700.00	5,561.73	5,665.63	5,605.92	27.97	26.33	-159.18	297.09	721.41	412.03	358.85	53.18	7.748		
5,800.00	5,661.73	5,764.45	5,703.58	28.35	26.80	-160.74	303.08	735.29	401.46	347.38	54.08	7.423		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 12C-6-M - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,900.00	5,761.73	5,863.27	5,801.24	28.72	27.26	-162.38	309.07	749.17	391.19	336.21	54.99	7.114			
6,000.00	5,861.73	5,962.10	5,898.89	29.10	27.72	-164.10	315.07	763.05	381.27	325.37	55.90	6.821			
6,100.00	5,961.73	6,060.92	5,996.55	29.48	28.19	-165.91	321.06	776.93	371.71	314.89	56.81	6.543			
6,200.00	6,061.73	6,159.74	6,094.21	29.86	28.65	-167.82	327.05	790.81	362.54	304.81	57.73	6.280			
6,300.00	6,161.73	6,258.56	6,191.87	30.25	29.11	-169.82	333.04	804.69	353.80	295.14	58.65	6.032			
6,400.00	6,261.73	6,357.39	6,289.53	30.63	29.57	-171.92	339.03	818.57	345.51	285.93	59.58	5.799			
6,451.69	6,313.42	6,408.47	6,340.01	30.83	29.81	-173.04	342.13	825.74	341.42	281.36	60.06	5.685			
6,500.00	6,361.68	6,455.90	6,386.89	31.01	30.04	-82.30	345.01	832.40	337.46	276.95	60.50	5.577			
6,550.00	6,411.34	6,502.85	6,433.35	31.20	30.25	-84.58	347.84	838.48	333.22	272.26	60.96	5.466			
6,600.00	6,460.39	6,549.19	6,479.51	31.38	30.46	-86.96	350.55	841.46	329.37	267.97	61.41	5.364			
6,650.00	6,508.54	6,596.40	6,526.63	31.58	30.65	-89.41	353.20	841.02	326.02	264.17	61.86	5.271			
6,700.00	6,555.48	6,644.53	6,574.51	31.78	30.83	-91.93	355.76	836.98	323.23	260.92	62.31	5.187			
6,750.00	6,600.93	6,693.67	6,622.94	31.98	31.02	-94.49	358.23	829.14	321.05	258.28	62.77	5.114			
6,800.00	6,644.61	6,743.88	6,671.66	32.20	31.21	-97.07	360.58	817.28	319.51	256.28	63.23	5.053			
6,850.00	6,686.25	6,795.24	6,720.39	32.44	31.41	-99.66	362.78	801.22	318.63	254.98	63.66	5.006			
6,892.66	6,719.96	6,840.02	6,761.70	32.65	31.59	-101.85	364.53	784.05	318.40	254.42	63.98	4.976			
6,900.00	6,725.58	6,847.83	6,768.77	32.68	31.62	-102.22	364.82	780.76	318.41	254.37	64.03	4.973			
6,950.00	6,762.38	6,901.70	6,816.42	32.96	31.85	-104.74	366.65	755.74	318.81	254.48	64.33	4.956			
7,000.00	6,796.41	6,956.92	6,862.91	33.25	32.09	-107.20	368.26	726.00	319.79	255.25	64.54	4.955			
7,050.00	6,827.46	7,013.55	6,907.72	33.58	32.36	-109.56	369.62	691.44	321.28	256.64	64.64	4.970			
7,100.00	6,855.34	7,071.62	6,950.31	33.93	32.66	-111.80	370.67	652.02	323.20	258.56	64.64	5.000			
7,150.00	6,879.88	7,131.14	6,990.07	34.33	33.00	-113.91	371.41	607.76	325.44	260.88	64.56	5.041			
7,200.00	6,900.93	7,192.11	7,026.34	34.76	33.39	-115.85	371.78	558.78	327.90	263.45	64.45	5.088			
7,250.00	6,918.36	7,254.51	7,058.45	35.23	33.84	-117.61	371.77	505.30	330.45	266.10	64.35	5.135			
7,300.00	6,932.05	7,318.25	7,085.70	35.74	34.37	-119.17	371.34	447.70	332.97	268.62	64.35	5.174			
7,350.00	6,941.94	7,383.25	7,107.42	36.29	34.96	-120.51	370.47	386.48	335.34	270.83	64.51	5.198			
7,400.00	6,947.94	7,449.36	7,123.00	36.87	35.63	-121.61	369.16	322.28	337.45	272.55	64.90	5.200			
7,450.00	6,950.04	7,516.39	7,131.94	37.47	36.38	-122.45	367.39	255.91	339.20	273.62	65.58	5.173			
7,458.56	6,950.00	7,527.94	7,132.77	37.58	36.51	-122.57	367.05	244.39	339.46	273.73	65.72	5.165			
7,500.00	6,949.56	7,581.73	7,133.93	38.11	37.15	-122.87	365.27	190.66	339.81	273.15	66.65	5.098			
7,600.00	6,948.48	7,681.72	7,132.86	39.51	38.46	-122.94	361.80	90.73	339.13	270.08	69.05	4.912			
7,700.00	6,947.40	7,781.72	7,131.79	41.06	39.93	-123.02	358.32	-9.20	338.45	266.77	71.68	4.722			
7,800.00	6,946.32	7,881.72	7,130.72	42.74	41.54	-123.10	354.84	-109.13	337.77	263.24	74.53	4.532			
7,900.00	6,945.24	7,981.71	7,129.65	44.55	43.28	-123.17	351.37	-209.06	337.09	259.51	77.58	4.345			
8,000.00	6,944.16	8,081.71	7,128.58	46.46	45.13	-123.25	347.89	-308.99	336.41	255.61	80.80	4.163			
8,100.00	6,943.08	8,181.71	7,127.51	48.47	47.08	-123.33	344.41	-408.92	335.74	251.56	84.17	3.989			
8,200.00	6,942.01	8,281.70	7,126.44	50.55	49.11	-123.41	340.94	-508.85	335.06	247.39	87.67	3.822			
8,300.00	6,940.93	8,381.70	7,125.37	52.71	51.22	-123.48	337.46	-608.79	334.38	243.09	91.29	3.663			
8,400.00	6,939.85	8,481.70	7,124.30	54.93	53.41	-123.56	333.98	-708.72	333.71	238.70	95.01	3.512			
8,500.00	6,938.77	8,581.69	7,123.23	57.20	55.65	-123.64	330.51	-808.65	333.03	234.22	98.82	3.370			
8,600.00	6,937.69	8,681.69	7,122.16	59.53	57.94	-123.72	327.03	-908.58	332.36	229.66	102.70	3.236			
8,700.00	6,936.61	8,781.69	7,121.08	61.89	60.28	-123.80	323.55	-1,008.51	331.69	225.03	106.65	3.110			
8,800.00	6,935.54	8,881.68	7,120.01	64.30	62.66	-123.88	320.07	-1,108.44	331.01	220.35	110.67	2.991			
8,900.00	6,934.46	8,981.68	7,118.94	66.74	65.08	-123.96	316.60	-1,208.37	330.34	215.61	114.73	2.879			
9,000.00	6,933.38	9,081.68	7,117.87	69.21	67.53	-124.04	313.12	-1,308.30	329.67	210.83	118.84	2.774			
9,100.00	6,932.30	9,181.67	7,116.80	71.71	70.01	-124.12	309.64	-1,408.23	329.00	206.01	122.99	2.675			
9,200.00	6,931.22	9,281.67	7,115.73	74.23	72.52	-124.20	306.17	-1,508.16	328.33	201.16	127.17	2.582			
9,300.00	6,930.14	9,381.67	7,114.66	76.78	75.06	-124.28	302.69	-1,608.09	327.66	196.27	131.39	2.494			
9,400.00	6,929.06	9,481.66	7,113.59	79.34	77.61	-124.36	299.21	-1,708.02	326.99	191.36	135.63	2.411			
9,500.00	6,927.99	9,581.66	7,112.52	81.93	80.18	-124.45	295.74	-1,807.95	326.32	186.42	139.90	2.333			
9,600.00	6,926.91	9,681.66	7,111.45	84.53	82.77	-124.53	292.26	-1,907.88	325.66	181.47	144.19	2.259			
9,700.00	6,925.83	9,781.65	7,110.38	87.14	85.38	-124.61	288.78	-2,007.81	324.99	176.49	148.49	2.189			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 12C-6-M - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
9,800.00	6,924.75	9,881.65	7,109.31	89.77	88.00	-124.69	285.31	-2,107.74	324.32	171.51	152.82	2.122			
9,900.00	6,923.67	9,981.65	7,108.24	92.41	90.63	-124.78	281.83	-2,207.67	323.66	166.51	157.15	2.060			
10,000.00	6,922.59	10,081.64	7,107.17	95.07	93.28	-124.86	278.35	-2,307.60	322.99	161.50	161.50	2.000			
10,100.00	6,921.51	10,181.64	7,106.10	97.73	95.94	-124.94	274.87	-2,407.53	322.33	156.48	165.85	1.943			
10,200.00	6,920.44	10,281.64	7,105.03	100.40	98.61	-125.03	271.40	-2,507.46	321.67	151.45	170.22	1.890			
10,300.00	6,919.36	10,381.63	7,103.96	103.08	101.29	-125.11	267.92	-2,607.39	321.00	146.41	174.59	1.839			
10,400.00	6,918.28	10,481.63	7,102.89	105.77	103.97	-125.20	264.44	-2,707.33	320.34	141.37	178.97	1.790			
10,500.00	6,917.20	10,581.63	7,101.82	108.47	106.67	-125.28	260.97	-2,807.26	319.68	136.33	183.35	1.744			
10,600.00	6,916.12	10,681.62	7,100.75	111.18	109.37	-125.37	257.49	-2,907.19	319.02	131.29	187.73	1.699			
10,700.00	6,915.04	10,781.62	7,099.68	113.89	112.08	-125.46	254.01	-3,007.12	318.36	126.24	192.12	1.657			
10,800.00	6,913.96	10,881.62	7,098.61	116.61	114.79	-125.54	250.54	-3,107.05	317.70	121.19	196.51	1.617			
10,900.00	6,912.89	10,981.61	7,097.54	119.33	117.51	-125.63	247.06	-3,206.98	317.04	116.15	200.90	1.578			
11,000.00	6,911.81	11,081.61	7,096.47	122.06	120.24	-125.72	243.58	-3,306.91	316.39	111.10	205.29	1.541			
11,100.00	6,910.73	11,181.61	7,095.40	124.79	122.97	-125.80	240.11	-3,406.84	315.73	106.05	209.67	1.506			
11,200.00	6,909.65	11,281.60	7,094.33	127.53	125.71	-125.89	236.63	-3,506.77	315.07	101.01	214.06	1.472 Level 3			
11,300.00	6,908.57	11,381.60	7,093.26	130.27	128.45	-125.98	233.15	-3,606.70	314.42	95.97	218.45	1.439 Level 3			
11,400.00	6,907.49	11,481.60	7,092.19	133.02	131.20	-126.07	229.67	-3,706.63	313.76	90.94	222.83	1.408 Level 3			
11,500.00	6,906.41	11,581.59	7,091.12	135.77	133.95	-126.16	226.20	-3,806.56	313.11	85.90	227.21	1.378 Level 3			
11,600.00	6,905.34	11,681.59	7,090.05	138.52	136.70	-126.25	222.72	-3,906.49	312.46	80.87	231.58	1.349 Level 3			
11,700.00	6,904.26	11,781.59	7,088.98	141.28	139.46	-126.34	219.24	-4,006.42	311.80	75.85	235.95	1.321 Level 3			
11,800.00	6,903.18	11,881.58	7,087.91	144.04	142.22	-126.43	215.77	-4,106.35	311.15	70.83	240.32	1.295 Level 3			
11,900.00	6,902.10	11,981.58	7,086.84	146.80	144.99	-126.52	212.29	-4,206.28	310.50	65.82	244.68	1.269 Level 3			
12,000.00	6,901.02	12,081.58	7,085.76	149.57	147.75	-126.61	208.81	-4,306.21	309.85	60.82	249.03	1.244 Level 2			
12,100.00	6,899.94	12,181.57	7,084.69	152.34	150.52	-126.70	205.34	-4,406.14	309.20	55.82	253.38	1.220 Level 2			
12,200.00	6,898.87	12,281.57	7,083.62	155.11	153.30	-126.79	201.86	-4,506.07	308.55	50.83	257.73	1.197 Level 2			
12,300.00	6,897.79	12,381.57	7,082.55	157.89	156.07	-126.88	198.38	-4,606.00	307.91	45.84	262.06	1.175 Level 2			
12,400.00	6,896.71	12,481.56	7,081.48	160.66	158.85	-126.98	194.91	-4,705.94	307.26	40.86	266.39	1.153 Level 2			
12,500.00	6,895.63	12,581.56	7,080.41	163.44	161.63	-127.07	191.43	-4,805.87	306.61	35.90	270.72	1.133 Level 2			
12,600.00	6,894.55	12,681.56	7,079.34	166.22	164.41	-127.16	187.95	-4,905.80	305.97	30.93	275.03	1.112 Level 2			
12,700.00	6,893.47	12,781.55	7,078.27	169.00	167.19	-127.26	184.47	-5,005.73	305.32	25.98	279.34	1.093 Level 2			
12,800.00	6,892.39	12,881.55	7,077.20	171.79	169.98	-127.35	181.00	-5,105.66	304.68	21.04	283.64	1.074 Level 2			
12,900.00	6,891.32	12,981.55	7,076.13	174.57	172.77	-127.44	177.52	-5,205.59	304.04	16.10	287.93	1.056 Level 2			
13,000.00	6,890.24	13,081.54	7,075.06	177.36	175.56	-127.54	174.04	-5,305.52	303.39	11.18	292.22	1.038 Level 2			
13,100.00	6,889.16	13,181.54	7,073.99	180.15	178.35	-127.63	170.57	-5,405.45	302.75	6.26	296.49	1.021 Level 2			
13,200.00	6,888.08	13,281.54	7,072.92	182.94	181.14	-127.73	167.09	-5,505.38	302.11	1.36	300.76	1.005 Level 2			
13,300.00	6,887.00	13,381.53	7,071.85	185.74	183.93	-127.83	163.61	-5,605.31	301.47	-3.54	305.01	0.988 Level 1			
13,400.00	6,885.92	13,481.53	7,070.78	188.53	186.73	-127.92	160.14	-5,705.24	300.84	-8.42	309.26	0.973 Level 1			
13,500.00	6,884.84	13,581.53	7,069.71	191.32	189.53	-128.02	156.66	-5,805.17	300.20	-13.30	313.50	0.958 Level 1			
13,600.00	6,883.77	13,681.52	7,068.64	194.12	192.32	-128.12	153.18	-5,905.10	299.56	-18.16	317.72	0.943 Level 1			
13,700.00	6,882.69	13,781.52	7,067.57	196.92	195.12	-128.21	149.71	-6,005.03	298.92	-23.01	321.94	0.929 Level 1			
13,800.00	6,881.61	13,881.52	7,066.50	199.72	197.92	-128.31	146.23	-6,104.96	298.29	-27.86	326.15	0.915 Level 1			
13,900.00	6,880.53	13,981.51	7,065.43	202.52	200.73	-128.41	142.75	-6,204.89	297.66	-32.69	330.34	0.901 Level 1			
14,000.00	6,879.45	14,081.51	7,064.36	205.32	203.53	-128.51	139.27	-6,304.82	297.02	-37.51	334.53	0.888 Level 1			
14,100.00	6,878.37	14,181.51	7,063.29	208.12	206.33	-128.61	135.80	-6,404.75	296.39	-42.31	338.70	0.875 Level 1			
14,200.00	6,877.29	14,281.50	7,062.22	210.92	209.14	-128.71	132.32	-6,504.68	295.76	-47.11	342.87	0.863 Level 1			
14,300.00	6,876.22	14,381.50	7,061.15	213.73	211.95	-128.81	128.84	-6,604.61	295.13	-51.89	347.02	0.850 Level 1			
14,400.00	6,875.14	14,481.50	7,060.08	216.53	214.75	-128.91	125.37	-6,704.54	294.50	-56.66	351.16	0.839 Level 1			
14,500.00	6,874.06	14,581.49	7,059.01	219.34	217.56	-129.01	121.89	-6,804.48	293.87	-61.42	355.29	0.827 Level 1			
14,600.00	6,872.98	14,681.49	7,057.94	222.15	220.37	-129.11	118.41	-6,904.41	293.24	-66.17	359.41	0.816 Level 1			
14,700.00	6,871.90	14,781.49	7,056.87	224.95	223.18	-129.21	114.94	-7,004.34	292.61	-70.90	363.52	0.805 Level 1			
14,800.00	6,870.82	14,881.48	7,055.80	227.76	225.99	-129.32	111.46	-7,104.27	291.99	-75.62	367.61	0.794 Level 1			
14,900.00	6,869.75	14,981.48	7,054.73	230.57	228.80	-129.42	107.98	-7,204.20	291.36	-80.33	371.69	0.784 Level 1			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 12C-6-M - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance				Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
15,000.00	6,868.67	15,081.48	7,053.66	233.38	231.61	-129.52	104.51	-7,304.13	290.74	-85.02	375.76	0.774	Level 1		
15,100.00	6,867.59	15,181.47	7,052.59	236.19	234.43	-129.63	101.03	-7,404.06	290.12	-89.70	379.82	0.764	Level 1		
15,200.00	6,866.51	15,281.47	7,051.52	239.00	237.24	-129.73	97.55	-7,503.99	289.49	-94.37	383.86	0.754	Level 1		
15,300.00	6,865.43	15,381.47	7,050.45	241.81	240.06	-129.84	94.07	-7,603.92	288.87	-99.02	387.89	0.745	Level 1		
15,400.00	6,864.35	15,481.46	7,049.37	244.63	242.87	-129.94	90.60	-7,703.85	288.25	-103.66	391.91	0.736	Level 1		
15,500.00	6,863.27	15,581.46	7,048.30	247.44	245.69	-130.05	87.12	-7,803.78	287.63	-108.28	395.92	0.726	Level 1		
15,600.00	6,862.20	15,681.46	7,047.23	250.25	248.50	-130.15	83.64	-7,903.71	287.01	-112.89	399.91	0.718	Level 1		
15,618.10	6,862.00	15,699.55	7,047.04	250.76	249.01	-130.17	83.01	-7,921.79	286.90	-113.72	400.63	0.716	Level 1, ES, SF		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 13C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.46	-74.68	-7.24	75.03					
100.00	100.00	100.00	100.00	3.28	3.28	-174.46	-74.68	-7.24	75.03	68.46	6.57	11.421		
200.00	200.00	200.00	200.00	3.34	3.34	-174.46	-74.68	-7.24	75.03	68.36	6.67	11.242	CC, ES	
300.00	299.98	299.98	299.98	3.44	3.44	134.57	-74.68	-7.24	76.25	69.36	6.89	11.068		
400.00	399.84	399.10	399.09	3.61	3.60	135.98	-75.37	-5.67	80.46	73.26	7.20	11.172		
500.00	499.45	498.03	497.88	3.81	3.79	136.57	-77.43	-0.97	88.14	80.54	7.60	11.595		
600.00	598.70	596.58	596.05	4.06	4.02	136.45	-80.83	6.81	99.24	91.15	8.08	12.276		
700.00	697.47	694.57	693.33	4.35	4.29	135.83	-85.57	17.61	113.72	105.09	8.64	13.166		
800.00	795.62	791.82	789.41	4.66	4.59	134.91	-91.58	31.34	131.59	122.33	9.25	14.219		
900.00	893.06	888.18	884.05	5.01	4.91	133.83	-98.82	47.88	152.80	142.87	9.93	15.392		
961.44	952.51	946.86	941.38	5.25	5.13	133.14	-103.85	59.37	167.48	157.11	10.37	16.152		
1,000.00	989.71	983.51	977.04	5.40	5.27	132.79	-107.24	67.10	177.16	166.51	10.65	16.632		
1,100.00	1,086.20	1,078.04	1,068.51	5.81	5.66	131.43	-116.81	88.95	203.00	191.59	11.41	17.784		
1,200.00	1,182.69	1,173.42	1,160.15	6.24	6.08	129.77	-127.42	113.17	229.79	217.57	12.22	18.801		
1,300.00	1,279.18	1,269.54	1,252.45	6.69	6.52	128.40	-138.18	137.75	256.80	243.73	13.07	19.649		
1,400.00	1,375.67	1,365.67	1,344.75	7.15	6.99	127.29	-148.95	162.33	283.91	269.97	13.94	20.362		
1,500.00	1,472.15	1,461.79	1,437.05	7.62	7.46	126.38	-159.71	186.91	311.10	296.27	14.84	20.965		
1,600.00	1,568.64	1,557.91	1,529.35	8.10	7.95	125.61	-170.47	211.49	338.36	322.61	15.75	21.478		
1,700.00	1,665.13	1,654.03	1,621.66	8.59	8.45	124.95	-181.24	236.07	365.67	348.98	16.68	21.916		
1,800.00	1,761.62	1,750.15	1,713.96	9.08	8.96	124.39	-192.00	260.65	393.01	375.38	17.63	22.294		
1,900.00	1,858.11	1,846.28	1,806.26	9.58	9.47	123.90	-202.77	285.23	420.38	401.80	18.58	22.621		
2,000.00	1,954.60	1,942.40	1,898.56	10.08	9.99	123.47	-213.53	309.81	447.78	428.23	19.55	22.907		
2,100.00	2,051.09	2,038.52	1,990.86	10.59	10.51	123.09	-224.30	334.39	475.20	454.68	20.52	23.157		
2,200.00	2,147.57	2,134.64	2,083.16	11.09	11.03	122.75	-235.06	358.96	502.64	481.14	21.50	23.378		
2,300.00	2,244.06	2,230.77	2,175.46	11.61	11.56	122.45	-245.83	383.54	530.09	507.60	22.49	23.573		
2,400.00	2,340.55	2,326.89	2,267.76	12.12	12.10	122.18	-256.59	408.12	557.55	534.07	23.48	23.747		
2,500.00	2,437.04	2,423.01	2,360.07	12.64	12.63	121.93	-267.36	432.70	585.03	560.55	24.47	23.903		
2,600.00	2,533.53	2,519.13	2,452.37	13.15	13.17	121.70	-278.12	457.28	612.51	587.03	25.48	24.043		
2,700.00	2,630.02	2,615.26	2,544.67	13.67	13.71	121.50	-288.88	481.86	640.00	613.52	26.48	24.170		
2,800.00	2,726.50	2,711.38	2,636.97	14.19	14.25	121.31	-299.65	506.44	667.50	640.01	27.49	24.284		
2,900.00	2,822.99	2,807.50	2,729.27	14.72	14.80	121.13	-310.41	531.02	695.00	666.51	28.50	24.388		
3,000.00	2,919.48	2,903.62	2,821.57	15.24	15.34	120.97	-321.18	555.60	722.51	693.00	29.51	24.483		
3,100.00	3,015.97	3,000.25	2,913.87	15.76	15.89	120.82	-331.94	580.17	750.03	719.50	30.53	24.568		
3,200.00	3,112.46	3,104.13	3,006.17	16.29	16.48	120.68	-342.71	604.75	777.55	745.96	31.59	24.615		
3,300.00	3,208.95	3,208.01	3,098.48	16.81	17.08	120.55	-353.47	629.33	805.07	772.42	32.65	24.657		
3,400.00	3,305.44	3,288.11	3,190.78	17.34	17.54	120.43	-364.24	653.91	832.60	799.01	33.59	24.791		
3,500.00	3,401.92	3,399.24	3,297.97	17.87	18.15	120.41	-375.99	680.75	859.38	824.62	34.76	24.726		
3,600.00	3,498.41	3,513.11	3,408.88	18.40	18.75	120.65	-386.30	704.29	884.28	848.37	35.91	24.622		
3,700.00	3,594.90	3,627.70	3,521.45	18.93	19.30	121.13	-394.88	723.89	907.32	870.28	37.04	24.497		
3,800.00	3,691.39	3,742.65	3,635.15	19.46	19.83	121.84	-401.67	739.39	928.53	890.41	38.13	24.355		
3,900.00	3,787.88	3,857.60	3,749.43	19.99	20.31	122.76	-406.63	750.70	948.03	908.85	39.18	24.200		
4,000.00	3,884.37	3,972.18	3,863.74	20.52	20.77	123.88	-409.73	757.79	965.93	925.75	40.19	24.036		
4,100.00	3,980.85	4,086.03	3,977.53	21.05	21.18	125.18	-411.00	760.68	982.42	941.26	41.16	23.871		
4,200.00	4,077.34	4,185.84	4,077.34	21.58	21.53	126.42	-411.03	760.76	998.18	956.15	42.03	23.748		
4,300.00	4,173.83	4,282.33	4,173.83	22.11	21.86	127.59	-411.03	760.76	1,014.35	971.46	42.89	23.650		
4,390.25	4,260.91	4,369.41	4,260.91	22.59	22.16	128.61	-411.03	760.76	1,029.30	985.64	43.66	23.575		
4,400.00	4,270.32	4,378.82	4,270.32	22.64	22.20	128.75	-411.03	760.76	1,030.93	987.19	43.74	23.567		
4,500.00	4,367.33	4,475.83	4,367.33	23.16	22.54	130.01	-411.03	760.76	1,046.59	1,002.00	44.59	23.473		
4,600.00	4,465.13	4,573.63	4,465.13	23.65	22.88	131.07	-411.03	760.76	1,060.32	1,014.90	45.42	23.347		
4,700.00	4,563.60	4,672.10	4,563.60	24.12	23.23	131.94	-411.03	760.76	1,071.96	1,025.73	46.23	23.188		
4,800.00	4,662.61	4,771.11	4,662.61	24.56	23.59	132.63	-411.03	760.76	1,081.42	1,034.39	47.03	22.995		
4,900.00	4,762.05	4,870.55	4,762.05	24.98	23.95	133.14	-411.03	760.76	1,088.59	1,040.78	47.81	22.768		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 13C-6-M - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,970.30	4,861.80	25.38	24.31	133.48	-411.03	760.76	1,093.42	1,044.84	48.59	22.505			
5,100.00	4,961.73	5,070.23	4,961.73	25.76	24.68	133.65	-411.03	760.76	1,095.87	1,046.52	49.35	22.208			
5,151.69	5,013.42	5,121.92	5,013.42	25.95	24.87	-174.44	-411.03	760.76	1,096.19	1,046.46	49.73	22.041			
5,200.00	5,061.73	5,170.23	5,061.73	26.13	25.04	-174.44	-411.03	760.76	1,096.19	1,046.10	50.09	21.882			
5,300.00	5,161.73	5,270.23	5,161.73	26.49	25.42	-174.44	-411.03	760.76	1,096.19	1,045.35	50.84	21.560			
5,400.00	5,261.73	5,370.23	5,261.73	26.86	25.79	-174.44	-411.03	760.76	1,096.19	1,044.59	51.60	21.244			
5,500.00	5,361.73	5,470.23	5,361.73	27.23	26.16	-174.44	-411.03	760.76	1,096.19	1,043.83	52.36	20.937			
5,600.00	5,461.73	5,570.23	5,461.73	27.60	26.54	-174.44	-411.03	760.76	1,096.19	1,043.07	53.12	20.637			
5,700.00	5,561.73	5,670.23	5,561.73	27.97	26.92	-174.44	-411.03	760.76	1,096.19	1,042.31	53.88	20.343			
5,800.00	5,661.73	5,770.23	5,661.73	28.35	27.30	-174.44	-411.03	760.76	1,096.19	1,041.54	54.65	20.057			
5,900.00	5,761.73	5,870.23	5,761.73	28.72	27.68	-174.44	-411.03	760.76	1,096.19	1,040.77	55.42	19.778			
6,000.00	5,861.73	5,970.23	5,861.73	29.10	28.07	-174.44	-411.03	760.76	1,096.19	1,039.99	56.20	19.505			
6,100.00	5,961.73	6,070.23	5,961.73	29.48	28.45	-174.44	-411.03	760.76	1,096.19	1,039.21	56.98	19.239			
6,200.00	6,061.73	6,170.23	6,061.73	29.86	28.84	-174.44	-411.03	760.76	1,096.19	1,038.43	57.76	18.979			
6,300.00	6,161.73	6,270.23	6,161.73	30.25	29.23	-174.44	-411.03	760.76	1,096.19	1,037.65	58.54	18.725			
6,400.00	6,261.73	6,370.23	6,261.73	30.63	29.62	-174.44	-411.03	760.76	1,096.19	1,036.86	59.33	18.477			
6,451.69	6,313.42	6,421.92	6,313.42	30.83	29.82	-174.44	-411.03	760.76	1,096.19	1,036.46	59.74	18.351			
6,500.00	6,361.68	6,470.18	6,361.68	31.01	30.01	-82.10	-411.03	760.76	1,095.94	1,035.83	60.11	18.232			
6,550.00	6,411.34	6,519.84	6,411.34	31.20	30.21	-82.46	-411.03	760.76	1,095.16	1,034.67	60.49	18.104			
6,600.00	6,460.39	6,568.89	6,460.39	31.38	30.40	-83.06	-411.03	760.76	1,093.92	1,033.05	60.88	17.969			
6,650.00	6,508.54	6,617.04	6,508.54	31.58	30.59	-83.88	-411.03	760.76	1,092.34	1,031.07	61.27	17.829			
6,700.00	6,555.48	6,660.89	6,552.39	31.78	30.76	-84.80	-411.04	760.42	1,090.58	1,028.95	61.64	17.694			
6,750.00	6,600.93	6,702.10	6,593.50	31.98	30.91	-85.72	-411.13	757.73	1,088.97	1,026.97	62.00	17.565			
6,800.00	6,644.61	6,744.15	6,635.19	32.20	31.07	-86.65	-411.31	752.26	1,087.58	1,025.20	62.38	17.435			
6,850.00	6,686.25	6,787.15	6,677.35	32.44	31.24	-87.62	-411.58	743.83	1,086.44	1,023.65	62.79	17.302			
6,900.00	6,725.58	6,831.21	6,719.84	32.68	31.41	-88.60	-411.95	732.26	1,085.60	1,022.35	63.24	17.166			
6,950.00	6,762.38	6,876.44	6,762.54	32.96	31.60	-89.59	-412.43	717.36	1,085.06	1,021.34	63.73	17.027			
7,000.00	6,796.41	6,922.98	6,805.25	33.25	31.80	-90.60	-413.03	698.91	1,084.87	1,020.61	64.25	16.884			
7,002.73	6,798.18	6,925.55	6,807.57	33.27	31.81	-90.65	-413.07	697.80	1,084.87	1,020.58	64.28	16.876			
7,050.00	6,827.46	6,970.98	6,847.76	33.58	32.02	-91.61	-413.75	676.66	1,085.03	1,020.20	64.83	16.737			
7,100.00	6,855.34	7,020.61	6,889.83	33.93	32.26	-92.63	-414.60	650.36	1,085.55	1,020.10	65.45	16.587			
7,150.00	6,879.88	7,072.05	6,931.13	34.33	32.53	-93.66	-415.59	619.74	1,086.43	1,020.31	66.12	16.432			
7,200.00	6,900.93	7,125.50	6,971.28	34.76	32.84	-94.69	-416.73	584.49	1,087.65	1,020.81	66.84	16.273			
7,250.00	6,918.36	7,181.16	7,009.79	35.23	33.19	-95.71	-418.03	544.35	1,089.20	1,021.58	67.62	16.108			
7,300.00	6,932.05	7,239.25	7,046.08	35.74	33.60	-96.73	-419.49	499.04	1,091.02	1,022.56	68.46	15.936			
7,350.00	6,941.94	7,299.99	7,079.44	36.29	34.07	-97.73	-421.13	448.34	1,093.08	1,023.70	69.38	15.755			
7,400.00	6,947.94	7,363.57	7,109.01	36.87	34.64	-98.71	-422.95	392.12	1,095.30	1,024.91	70.39	15.560			
7,450.00	6,950.04	7,430.15	7,133.81	37.47	35.29	-99.66	-424.95	330.38	1,097.61	1,026.11	71.50	15.351			
7,458.56	6,950.00	7,441.86	7,137.50	37.58	35.42	-99.81	-425.30	319.28	1,098.01	1,026.31	71.70	15.313			
7,500.00	6,949.56	7,500.37	7,152.83	38.11	36.06	-100.64	-427.13	262.87	1,099.66	1,026.90	72.76	15.114			
7,600.00	6,948.48	7,650.36	7,167.98	39.51	37.90	-101.51	-431.94	114.07	1,100.81	1,024.91	75.90	14.503			
7,700.00	6,947.40	7,749.93	7,166.55	41.06	39.30	-101.50	-435.16	14.56	1,099.70	1,020.83	78.87	13.944			
7,800.00	6,946.32	7,849.92	7,165.11	42.74	40.85	-101.50	-438.39	-85.37	1,098.59	1,016.49	82.09	13.383			
7,900.00	6,945.24	7,949.92	7,163.66	44.55	42.53	-101.49	-441.62	-185.30	1,097.47	1,011.91	85.56	12.827			
8,000.00	6,944.16	8,049.91	7,162.22	46.46	44.33	-101.48	-444.85	-285.23	1,096.36	1,007.12	89.24	12.285			
8,100.00	6,943.08	8,149.91	7,160.78	48.47	46.23	-101.47	-448.08	-385.16	1,095.25	1,002.13	93.12	11.762			
8,200.00	6,942.01	8,249.90	7,159.33	50.55	48.23	-101.47	-451.31	-485.09	1,094.13	996.98	97.16	11.261			
8,300.00	6,940.93	8,349.89	7,157.89	52.71	50.32	-101.46	-454.54	-585.03	1,093.02	991.67	101.35	10.785			
8,400.00	6,939.85	8,449.89	7,156.45	54.93	52.47	-101.45	-457.77	-684.96	1,091.91	986.24	105.67	10.333			
8,500.00	6,938.77	8,549.88	7,155.01	57.20	54.69	-101.44	-461.00	-784.89	1,090.80	980.69	110.10	9.907			
8,600.00	6,937.69	8,649.87	7,153.56	59.53	56.97	-101.43	-464.23	-884.82	1,089.68	975.05	114.64	9.505			
8,700.00	6,936.61	8,749.87	7,152.12	61.89	59.29	-101.43	-467.46	-984.75	1,088.57	969.31	119.26	9.128			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 13C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	8,849.86	7,150.68	64.30	61.66	-101.42	-470.69	-1,084.68	1,087.46	963.49	123.97	8.772		
8,900.00	6,934.46	8,949.85	7,149.23	66.74	64.06	-101.41	-473.92	-1,184.61	1,086.35	957.60	128.74	8.438		
9,000.00	6,933.38	9,049.85	7,147.79	69.21	66.51	-101.40	-477.15	-1,284.54	1,085.23	951.65	133.58	8.124		
9,100.00	6,932.30	9,149.84	7,146.35	71.71	68.98	-101.40	-480.39	-1,384.47	1,084.12	945.64	138.48	7.829		
9,200.00	6,931.22	9,249.84	7,144.90	74.23	71.48	-101.39	-483.62	-1,484.41	1,083.01	939.58	143.43	7.551		
9,300.00	6,930.14	9,349.83	7,143.46	76.78	74.01	-101.38	-486.85	-1,584.34	1,081.90	933.48	148.42	7.289		
9,400.00	6,929.06	9,449.82	7,142.02	79.34	76.55	-101.37	-490.08	-1,684.27	1,080.78	927.33	153.45	7.043		
9,500.00	6,927.99	9,549.82	7,140.58	81.93	79.12	-101.36	-493.31	-1,784.20	1,079.67	921.15	158.53	6.811		
9,600.00	6,926.91	9,649.81	7,139.13	84.53	81.71	-101.36	-496.54	-1,884.13	1,078.56	914.93	163.63	6.591		
9,700.00	6,925.83	9,749.80	7,137.69	87.14	84.31	-101.35	-499.77	-1,984.06	1,077.45	908.68	168.77	6.384		
9,800.00	6,924.75	9,849.80	7,136.25	89.77	86.93	-101.34	-503.00	-2,083.99	1,076.33	902.40	173.93	6.188		
9,900.00	6,923.67	9,949.79	7,134.80	92.41	89.56	-101.33	-506.23	-2,183.92	1,075.22	896.10	179.13	6.003		
10,000.00	6,922.59	10,049.79	7,133.36	95.07	92.21	-101.32	-509.46	-2,283.85	1,074.11	889.77	184.34	5.827		
10,100.00	6,921.51	10,149.78	7,131.92	97.73	94.86	-101.32	-512.69	-2,383.78	1,073.00	883.42	189.58	5.660		
10,200.00	6,920.44	10,249.77	7,130.47	100.40	97.53	-101.31	-515.92	-2,483.72	1,071.88	877.05	194.83	5.502		
10,300.00	6,919.36	10,349.77	7,129.03	103.08	100.20	-101.30	-519.15	-2,583.65	1,070.77	870.66	200.11	5.351		
10,400.00	6,918.28	10,449.76	7,127.59	105.77	102.89	-101.29	-522.38	-2,683.58	1,069.66	864.26	205.40	5.208		
10,500.00	6,917.20	10,549.75	7,126.15	108.47	105.58	-101.28	-525.61	-2,783.51	1,068.55	857.84	210.71	5.071		
10,600.00	6,916.12	10,649.75	7,124.70	111.18	108.29	-101.28	-528.85	-2,883.44	1,067.44	851.40	216.03	4.941		
10,700.00	6,915.04	10,749.74	7,123.26	113.89	110.99	-101.27	-532.08	-2,983.37	1,066.32	844.95	221.37	4.817		
10,800.00	6,913.96	10,849.74	7,121.82	116.61	113.71	-101.26	-535.31	-3,083.30	1,065.21	838.49	226.72	4.698		
10,900.00	6,912.89	10,949.73	7,120.37	119.33	116.43	-101.25	-538.54	-3,183.23	1,064.10	832.02	232.08	4.585		
11,000.00	6,911.81	11,049.72	7,118.93	122.06	119.16	-101.24	-541.77	-3,283.16	1,062.99	825.54	237.45	4.477		
11,100.00	6,910.73	11,149.72	7,117.49	124.79	121.89	-101.24	-545.00	-3,383.10	1,061.88	819.04	242.83	4.373		
11,200.00	6,909.65	11,249.71	7,116.04	127.53	124.63	-101.23	-548.23	-3,483.03	1,060.76	812.54	248.23	4.273		
11,300.00	6,908.57	11,349.70	7,114.60	130.27	127.37	-101.22	-551.46	-3,582.96	1,059.65	806.02	253.63	4.178		
11,400.00	6,907.49	11,449.70	7,113.16	133.02	130.11	-101.21	-554.69	-3,682.89	1,058.54	799.50	259.04	4.086		
11,500.00	6,906.41	11,549.69	7,111.72	135.77	132.87	-101.20	-557.92	-3,782.82	1,057.43	792.97	264.45	3.999		
11,600.00	6,905.34	11,649.68	7,110.27	138.52	135.62	-101.20	-561.15	-3,882.75	1,056.31	786.44	269.88	3.914		
11,700.00	6,904.26	11,749.68	7,108.83	141.28	138.38	-101.19	-564.38	-3,982.68	1,055.20	779.89	275.31	3.833		
11,800.00	6,903.18	11,849.67	7,107.39	144.04	141.14	-101.18	-567.61	-4,082.61	1,054.09	773.34	280.75	3.755		
11,900.00	6,902.10	11,949.67	7,105.94	146.80	143.90	-101.17	-570.84	-4,182.54	1,052.98	766.78	286.19	3.679		
12,000.00	6,901.02	12,049.66	7,104.50	149.57	146.67	-101.16	-574.07	-4,282.48	1,051.87	760.22	291.65	3.607		
12,100.00	6,899.94	12,149.65	7,103.06	152.34	149.44	-101.15	-577.31	-4,382.41	1,050.76	753.65	297.10	3.537		
12,200.00	6,898.87	12,249.65	7,101.61	155.11	152.21	-101.15	-580.54	-4,482.34	1,049.64	747.08	302.57	3.469		
12,300.00	6,897.79	12,349.64	7,100.17	157.89	154.99	-101.14	-583.77	-4,582.27	1,048.53	740.50	308.03	3.404		
12,400.00	6,896.71	12,449.63	7,098.73	160.66	157.77	-101.13	-587.00	-4,682.20	1,047.42	733.91	313.51	3.341		
12,500.00	6,895.63	12,549.63	7,097.29	163.44	160.55	-101.12	-590.23	-4,782.13	1,046.31	727.32	318.98	3.280		
12,600.00	6,894.55	12,649.62	7,095.84	166.22	163.33	-101.11	-593.46	-4,882.06	1,045.20	720.73	324.46	3.221		
12,700.00	6,893.47	12,749.62	7,094.40	169.00	166.11	-101.10	-596.69	-4,981.99	1,044.08	714.13	329.95	3.164		
12,800.00	6,892.39	12,849.61	7,092.96	171.79	168.90	-101.10	-599.92	-5,081.92	1,042.97	707.53	335.44	3.109		
12,900.00	6,891.32	12,949.60	7,091.51	174.57	171.69	-101.09	-603.15	-5,181.86	1,041.86	700.93	340.93	3.056		
13,000.00	6,890.24	13,049.60	7,090.07	177.36	174.48	-101.08	-606.38	-5,281.79	1,040.75	694.32	346.43	3.004		
13,100.00	6,889.16	13,149.59	7,088.63	180.15	177.27	-101.07	-609.61	-5,381.72	1,039.64	687.71	351.93	2.954		
13,200.00	6,888.08	13,249.58	7,087.18	182.94	180.06	-101.06	-612.84	-5,481.65	1,038.53	681.09	357.44	2.905		
13,300.00	6,887.00	13,349.58	7,085.74	185.74	182.86	-101.05	-616.07	-5,581.58	1,037.41	674.47	362.94	2.858		
13,400.00	6,885.92	13,449.57	7,084.30	188.53	185.66	-101.04	-619.30	-5,681.51	1,036.30	667.85	368.45	2.813		
13,500.00	6,884.84	13,549.57	7,082.86	191.32	188.45	-101.04	-622.53	-5,781.44	1,035.19	661.22	373.97	2.768		
13,600.00	6,883.77	13,649.56	7,081.41	194.12	191.25	-101.03	-625.77	-5,881.37	1,034.08	654.59	379.48	2.725		
13,700.00	6,882.69	13,749.55	7,079.97	196.92	194.05	-101.02	-629.00	-5,981.30	1,032.97	647.96	385.00	2.683		
13,800.00	6,881.61	13,849.55	7,078.53	199.72	196.85	-101.01	-632.23	-6,081.23	1,031.86	641.33	390.53	2.642		
13,900.00	6,880.53	13,949.54	7,077.08	202.52	199.66	-101.00	-635.46	-6,181.17	1,030.75	634.69	396.05	2.603		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 13C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,879.45	14,049.53	7,075.64	205.32	202.46	-100.99	-638.69	-6,281.10	1,029.63	628.06	401.58	2.564		
14,100.00	6,878.37	14,149.53	7,074.20	208.12	205.27	-100.98	-641.92	-6,381.03	1,028.52	621.42	407.11	2.526		
14,200.00	6,877.29	14,249.52	7,072.75	210.92	208.07	-100.98	-645.15	-6,480.96	1,027.41	614.77	412.64	2.490		
14,300.00	6,876.22	14,349.51	7,071.31	213.73	210.88	-100.97	-648.38	-6,580.89	1,026.30	608.13	418.17	2.454		
14,400.00	6,875.14	14,449.51	7,069.87	216.53	213.69	-100.96	-651.61	-6,680.82	1,025.19	601.48	423.71	2.420		
14,500.00	6,874.06	14,549.50	7,068.43	219.34	216.50	-100.95	-654.84	-6,780.75	1,024.08	594.83	429.25	2.386		
14,600.00	6,872.98	14,649.50	7,066.98	222.15	219.31	-100.94	-658.07	-6,880.68	1,022.97	588.18	434.79	2.353		
14,700.00	6,871.90	14,749.49	7,065.54	224.95	222.12	-100.93	-661.30	-6,980.61	1,021.85	581.53	440.33	2.321		
14,800.00	6,870.82	14,849.48	7,064.10	227.76	224.93	-100.92	-664.53	-7,080.55	1,020.74	574.87	445.87	2.289		
14,900.00	6,869.75	14,949.48	7,062.65	230.57	227.74	-100.91	-667.76	-7,180.48	1,019.63	568.21	451.42	2.259		
15,000.00	6,868.67	15,049.47	7,061.21	233.38	230.55	-100.91	-670.99	-7,280.41	1,018.52	561.56	456.97	2.229		
15,100.00	6,867.59	15,149.46	7,059.77	236.19	233.37	-100.90	-674.23	-7,380.34	1,017.41	554.89	462.51	2.200		
15,200.00	6,866.51	15,249.46	7,058.33	239.00	236.18	-100.89	-677.46	-7,480.27	1,016.30	548.23	468.07	2.171		
15,300.00	6,865.43	15,349.45	7,056.88	241.81	239.00	-100.88	-680.69	-7,580.20	1,015.19	541.57	473.62	2.143		
15,400.00	6,864.35	15,449.45	7,055.44	244.63	241.81	-100.87	-683.92	-7,680.13	1,014.08	534.90	479.17	2.116		
15,500.00	6,863.27	15,549.44	7,054.00	247.44	244.63	-100.86	-687.15	-7,780.06	1,012.96	528.24	484.73	2.090		
15,600.00	6,862.20	15,649.43	7,052.55	250.25	247.45	-100.85	-690.38	-7,879.99	1,011.85	521.57	490.28	2.064		
15,618.10	6,862.00	15,667.53	7,052.29	250.76	247.96	-100.85	-690.96	-7,898.08	1,011.65	520.36	491.29	2.059 SF		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 13N-6B-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	3.28	3.28	-174.41	-59.75	-5.85	60.03					
100.00	100.00	100.00	100.00	3.28	3.28	-174.41	-59.75	-5.85	60.03	53.46	6.57	9.138		
200.00	200.00	200.00	200.00	3.34	3.34	-174.41	-59.75	-5.85	60.03	53.36	6.67	8.995	CC, ES	
300.00	299.98	299.86	299.84	3.44	3.44	133.23	-60.02	-4.13	61.34	54.46	6.89	8.908		
400.00	399.84	399.60	399.43	3.61	3.60	131.95	-60.83	1.02	65.29	58.09	7.20	9.070		
500.00	499.45	499.11	498.56	3.81	3.80	130.12	-62.19	9.56	71.93	64.32	7.61	9.456		
600.00	598.70	601.67	597.05	4.06	4.06	128.07	-64.07	21.43	81.29	73.18	8.11	10.026		
700.00	697.47	702.37	695.46	4.35	4.34	127.32	-66.14	34.55	93.03	84.35	8.68	10.720		
800.00	795.62	803.36	793.58	4.66	4.65	128.18	-68.22	47.64	106.88	97.57	9.31	11.478		
900.00	893.06	904.75	891.30	5.01	5.00	130.03	-70.28	60.67	122.97	112.97	10.00	12.291		
961.44	952.51	955.58	951.09	5.25	5.18	131.47	-71.54	68.64	134.05	123.63	10.41	12.871		
1,000.00	989.71	1,006.63	988.54	5.40	5.36	132.47	-72.33	73.64	141.32	130.57	10.75	13.148		
1,100.00	1,086.20	1,108.62	1,085.67	5.81	5.74	134.65	-74.39	86.59	160.34	148.82	11.52	13.915		
1,200.00	1,182.69	1,189.40	1,182.80	6.24	6.06	136.36	-76.44	99.55	179.54	167.29	12.24	14.664		
1,300.00	1,279.18	1,287.41	1,279.93	6.69	6.44	137.74	-78.49	112.50	198.86	185.81	13.05	15.234		
1,400.00	1,375.67	1,385.42	1,377.07	7.15	6.84	138.88	-80.54	125.46	218.27	204.39	13.88	15.724		
1,500.00	1,472.15	1,483.44	1,474.20	7.62	7.25	139.83	-82.59	138.41	237.76	223.03	14.73	16.145		
1,600.00	1,568.64	1,581.45	1,571.33	8.10	7.66	140.64	-84.64	151.36	257.30	241.71	15.58	16.510		
1,700.00	1,665.13	1,679.46	1,668.46	8.59	8.07	141.34	-86.70	164.32	276.88	260.42	16.45	16.828		
1,800.00	1,761.62	1,777.47	1,765.59	9.08	8.49	141.94	-88.75	177.27	296.49	279.16	17.33	17.106		
1,900.00	1,858.11	1,875.49	1,862.72	9.58	8.91	142.47	-90.80	190.23	316.13	297.91	18.22	17.352		
2,000.00	1,954.60	1,973.50	1,959.86	10.08	9.34	142.93	-92.85	203.18	335.80	316.68	19.11	17.569		
2,100.00	2,051.09	2,071.51	2,056.99	10.59	9.77	143.35	-94.90	216.13	355.48	335.47	20.01	17.763		
2,200.00	2,147.57	2,169.53	2,154.12	11.09	10.20	143.72	-96.96	229.09	375.18	354.26	20.92	17.936		
2,300.00	2,244.06	2,267.54	2,251.25	11.61	10.64	144.05	-99.01	242.04	394.89	373.07	21.83	18.091		
2,400.00	2,340.55	2,365.55	2,348.38	12.12	11.08	144.35	-101.06	255.00	414.62	391.88	22.74	18.232		
2,500.00	2,437.04	2,463.57	2,445.51	12.64	11.51	144.63	-103.11	267.95	434.35	410.69	23.66	18.359		
2,600.00	2,533.53	2,561.58	2,542.64	13.15	11.95	144.88	-105.16	280.90	454.10	429.52	24.58	18.475		
2,700.00	2,630.02	2,659.59	2,639.78	13.67	12.40	145.11	-107.21	293.86	473.85	448.35	25.50	18.580		
2,800.00	2,726.50	2,757.60	2,736.91	14.19	12.84	145.32	-109.27	306.81	493.61	467.18	26.43	18.677		
2,900.00	2,822.99	2,855.62	2,834.04	14.72	13.28	145.52	-111.32	319.77	513.37	486.01	27.36	18.766		
3,000.00	2,919.48	2,953.63	2,931.17	15.24	13.73	145.70	-113.37	332.72	533.14	504.85	28.29	18.847		
3,100.00	3,015.97	3,051.64	3,028.30	15.76	14.17	145.86	-115.42	345.67	552.91	523.69	29.22	18.923		
3,200.00	3,112.46	3,149.66	3,125.43	16.29	14.62	146.02	-117.47	358.63	572.69	542.54	30.15	18.993		
3,300.00	3,208.95	3,247.67	3,222.57	16.81	15.06	146.17	-119.52	371.58	592.47	561.39	31.09	19.058		
3,400.00	3,305.44	3,345.68	3,319.70	17.34	15.51	146.30	-121.58	384.54	612.26	580.23	32.03	19.118		
3,500.00	3,401.92	3,443.70	3,416.83	17.87	15.96	146.43	-123.63	397.49	632.05	599.08	32.96	19.174		
3,600.00	3,498.41	3,541.71	3,513.96	18.40	16.41	146.55	-125.68	410.44	651.84	617.94	33.90	19.227		
3,700.00	3,594.90	3,639.72	3,611.09	18.93	16.86	146.66	-127.73	423.40	671.63	636.79	34.84	19.276		
3,800.00	3,691.39	3,737.74	3,708.22	19.46	17.31	146.77	-129.78	436.35	691.43	655.65	35.78	19.322		
3,900.00	3,787.88	3,835.75	3,805.35	19.99	17.76	146.87	-131.83	449.30	711.23	674.50	36.73	19.365		
4,000.00	3,884.37	3,933.76	3,902.49	20.52	18.21	146.97	-133.89	462.26	731.03	693.36	37.67	19.406		
4,100.00	3,980.85	4,031.77	3,999.62	21.05	18.66	147.06	-135.94	475.21	750.83	712.22	38.61	19.444		
4,200.00	4,077.34	4,129.79	4,096.75	21.58	19.11	147.14	-137.99	488.17	770.64	731.08	39.56	19.481		
4,300.00	4,173.83	4,227.80	4,193.88	22.11	19.56	147.22	-140.04	501.12	790.44	749.94	40.50	19.515		
4,390.25	4,260.91	4,316.26	4,281.54	22.59	19.97	147.29	-141.89	512.81	808.32	766.96	41.36	19.544		
4,400.00	4,270.32	4,325.82	4,291.02	22.64	20.02	147.32	-142.09	514.08	810.24	768.79	41.45	19.547		
4,500.00	4,367.33	4,424.16	4,388.48	23.16	20.47	147.51	-144.15	527.07	828.32	785.93	42.39	19.540		
4,600.00	4,465.13	4,522.98	4,486.41	23.65	20.93	147.54	-146.22	540.13	843.50	800.18	43.32	19.540		
4,700.00	4,563.60	4,622.15	4,584.68	24.12	21.39	147.42	-148.30	553.24	855.78	811.53	44.25	19.341		
4,800.00	4,662.61	4,721.54	4,683.18	24.56	21.84	147.15	-150.38	566.38	865.15	820.00	45.16	19.158		
4,900.00	4,762.05	4,821.05	4,781.79	24.98	22.30	146.73	-152.46	579.53	871.66	825.60	46.06	18.925		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 13N-6B-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,920.54	4,880.39	25.38	22.77	146.16	-154.54	592.68	875.33	828.39	46.95	18.646		
5,100.00	4,961.73	5,019.89	4,978.85	25.76	23.23	145.44	-156.62	605.81	876.23	828.41	47.82	18.324		
5,151.69	5,013.42	5,071.16	5,029.66	25.95	23.46	-163.11	-157.70	612.58	875.63	827.36	48.27	18.142		
5,200.00	5,061.73	5,119.03	5,077.10	26.13	23.68	-163.52	-158.70	618.91	874.76	826.08	48.68	17.970		
5,300.00	5,161.73	5,218.13	5,175.31	26.49	24.14	-164.38	-160.77	632.01	873.10	823.56	49.54	17.625		
5,400.00	5,261.73	5,317.23	5,273.52	26.86	24.60	-165.25	-162.85	645.11	871.65	821.25	50.40	17.295		
5,500.00	5,361.73	5,416.34	5,371.73	27.23	25.06	-166.12	-164.92	658.20	870.39	819.14	51.26	16.980		
5,600.00	5,461.73	5,515.44	5,469.94	27.60	25.52	-166.99	-167.00	671.30	869.35	817.23	52.12	16.680		
5,700.00	5,561.73	5,614.54	5,568.15	27.97	25.98	-167.86	-169.07	684.40	868.51	815.52	52.98	16.392		
5,800.00	5,661.73	5,713.64	5,666.36	28.35	26.44	-168.74	-171.14	697.50	867.87	814.02	53.85	16.117		
5,900.00	5,761.73	5,812.74	5,764.56	28.72	26.90	-169.61	-173.22	710.60	867.44	812.73	54.71	15.855		
6,000.00	5,861.73	5,911.84	5,862.77	29.10	27.36	-170.49	-175.29	723.69	867.22	811.64	55.58	15.604		
6,058.41	5,920.13	5,969.72	5,920.13	29.32	27.63	-171.00	-176.50	731.34	867.18	811.10	56.08	15.463		
6,100.00	5,961.73	6,010.94	5,960.98	29.48	27.82	-171.36	-177.37	736.79	867.20	810.76	56.44	15.364		
6,200.00	6,061.73	6,110.04	6,059.19	29.86	28.28	-172.24	-179.44	749.89	867.39	810.08	57.31	15.135		
6,300.00	6,161.73	6,209.14	6,157.40	30.25	28.74	-173.12	-181.52	762.99	867.78	809.61	58.17	14.917		
6,400.00	6,261.73	6,308.24	6,255.61	30.63	29.21	-173.99	-183.59	776.08	868.38	809.34	59.04	14.708		
6,451.69	6,313.42	6,350.89	6,298.05	30.83	29.40	-174.26	-184.55	780.06	869.05	809.65	59.40	14.631		
6,500.00	6,361.68	6,391.57	6,338.71	31.01	29.56	-81.91	-185.57	781.20	869.85	810.14	59.71	14.568		
6,550.00	6,411.34	6,433.85	6,380.93	31.20	29.72	-82.06	-186.72	779.63	870.60	810.58	60.02	14.506		
6,600.00	6,460.39	6,476.31	6,423.14	31.38	29.87	-82.26	-187.98	775.25	871.24	810.92	60.32	14.443		
6,650.00	6,508.54	6,519.01	6,465.18	31.58	30.03	-82.50	-189.34	768.01	871.80	811.15	60.64	14.376		
6,700.00	6,555.48	6,561.96	6,506.89	31.78	30.19	-82.78	-190.80	757.90	872.27	811.29	60.97	14.305		
6,750.00	6,600.93	6,605.20	6,548.10	31.98	30.35	-83.10	-192.35	744.91	872.66	811.33	61.33	14.230		
6,800.00	6,644.61	6,648.76	6,588.62	32.20	30.51	-83.45	-193.99	729.03	872.97	811.27	61.70	14.148		
6,850.00	6,686.25	6,692.69	6,628.28	32.44	30.68	-83.85	-195.72	710.24	873.22	811.11	62.11	14.059		
6,900.00	6,725.58	6,737.01	6,666.88	32.68	30.86	-84.27	-197.52	688.56	873.42	810.86	62.56	13.962		
6,950.00	6,762.38	6,781.76	6,704.24	32.96	31.05	-84.73	-199.40	664.00	873.57	810.52	63.05	13.855		
7,000.00	6,796.41	6,826.99	6,740.13	33.25	31.25	-85.22	-201.34	636.57	873.68	810.08	63.59	13.739		
7,050.00	6,827.46	6,872.73	6,774.36	33.58	31.47	-85.74	-203.35	606.31	873.76	809.56	64.19	13.611		
7,100.00	6,855.34	6,919.02	6,806.69	33.93	31.71	-86.29	-205.41	573.26	873.82	808.96	64.86	13.472		
7,150.00	6,879.88	6,965.90	6,836.90	34.33	31.98	-86.86	-207.51	537.49	873.86	808.27	65.60	13.322		
7,200.00	6,900.93	7,013.41	6,864.74	34.76	32.28	-87.45	-209.65	499.06	873.90	807.50	66.41	13.159		
7,250.00	6,918.36	7,061.60	6,889.97	35.23	32.61	-88.06	-211.81	458.07	873.94	806.65	67.30	12.986		
7,300.00	6,932.05	7,110.51	6,912.33	35.74	32.99	-88.68	-214.00	414.64	873.99	805.73	68.26	12.803		
7,350.00	6,941.94	7,160.17	6,931.56	36.29	33.41	-89.32	-216.18	368.92	874.04	804.73	69.30	12.612		
7,400.00	6,947.94	7,210.63	6,947.37	36.87	33.88	-89.97	-218.35	321.07	874.10	803.68	70.42	12.413		
7,450.00	6,950.04	7,261.91	6,959.51	37.47	34.40	-90.62	-220.50	271.31	874.16	802.57	71.59	12.210		
7,458.56	6,950.00	7,270.77	6,961.20	37.58	34.49	-90.73	-220.87	262.61	874.17	802.37	71.80	12.175		
7,500.00	6,949.56	7,314.27	6,967.73	38.11	34.97	-91.19	-222.62	219.65	874.19	801.36	72.83	12.003		
7,600.00	6,948.48	7,419.83	6,971.70	39.51	36.23	-91.53	-226.60	114.34	873.79	798.26	75.53	11.568		
7,700.00	6,947.40	7,519.83	6,970.39	41.06	37.58	-91.51	-230.24	14.42	873.14	794.67	78.46	11.128		
7,800.00	6,946.32	7,619.82	6,969.07	42.74	39.09	-91.50	-233.89	-85.51	872.48	790.79	81.69	10.681		
7,900.00	6,945.24	7,719.82	6,967.76	44.55	40.74	-91.48	-237.53	-185.43	871.83	786.66	85.17	10.236		
8,000.00	6,944.16	7,819.82	6,966.44	46.46	42.52	-91.47	-241.18	-285.35	871.18	782.30	88.88	9.802		
8,100.00	6,943.08	7,919.82	6,965.13	48.47	44.41	-91.46	-244.82	-385.27	870.52	777.73	92.79	9.382		
8,200.00	6,942.01	8,019.81	6,963.81	50.55	46.40	-91.44	-248.47	-485.20	869.87	773.00	96.87	8.979		
8,300.00	6,940.93	8,119.81	6,962.50	52.71	48.47	-91.43	-252.11	-585.12	869.22	768.10	101.12	8.596		
8,400.00	6,939.85	8,219.81	6,961.18	54.93	50.62	-91.41	-255.76	-685.04	868.56	763.07	105.49	8.233		
8,500.00	6,938.77	8,319.81	6,959.87	57.20	52.84	-91.40	-259.40	-784.96	867.91	757.92	109.99	7.891		
8,600.00	6,937.69	8,419.80	6,958.56	59.53	55.11	-91.38	-263.05	-884.89	867.26	752.67	114.59	7.568		
8,700.00	6,936.61	8,519.80	6,957.24	61.89	57.43	-91.37	-266.69	-984.81	866.61	747.32	119.29	7.265		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 13N-6B-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	8,619.80	6,955.93	64.30	59.80	-91.35	-270.34	-1,084.73	865.95	741.89	124.06	6.980		
8,900.00	6,934.46	8,719.80	6,954.61	66.74	62.21	-91.34	-273.98	-1,184.65	865.30	736.39	128.91	6.712		
9,000.00	6,933.38	8,819.79	6,953.30	69.21	64.65	-91.32	-277.63	-1,284.58	864.65	730.82	133.83	6.461		
9,100.00	6,932.30	8,919.79	6,951.98	71.71	67.13	-91.31	-281.27	-1,384.50	864.00	725.19	138.81	6.224		
9,200.00	6,931.22	9,019.79	6,950.67	74.23	69.63	-91.29	-284.92	-1,484.42	863.34	719.51	143.83	6.002		
9,300.00	6,930.14	9,119.79	6,949.35	76.78	72.16	-91.28	-288.56	-1,584.34	862.69	713.78	148.91	5.793		
9,400.00	6,929.06	9,219.79	6,948.04	79.34	74.71	-91.27	-292.21	-1,684.27	862.04	708.01	154.03	5.597		
9,500.00	6,927.99	9,319.78	6,946.72	81.93	77.28	-91.25	-295.85	-1,784.19	861.39	702.21	159.18	5.411		
9,600.00	6,926.91	9,419.78	6,945.41	84.53	79.87	-91.24	-299.50	-1,884.11	860.74	696.36	164.37	5.237		
9,700.00	6,925.83	9,519.78	6,944.09	87.14	82.47	-91.22	-303.14	-1,984.03	860.08	690.49	169.59	5.071		
9,800.00	6,924.75	9,619.78	6,942.78	89.77	85.09	-91.21	-306.79	-2,083.96	859.43	684.59	174.84	4.915		
9,900.00	6,923.67	9,719.77	6,941.47	92.41	87.73	-91.19	-310.43	-2,183.88	858.78	678.66	180.12	4.768		
10,000.00	6,922.59	9,819.77	6,940.15	95.07	90.38	-91.18	-314.08	-2,283.80	858.13	672.71	185.42	4.628		
10,100.00	6,921.51	9,919.77	6,938.84	97.73	93.03	-91.16	-317.72	-2,383.72	857.48	666.73	190.74	4.495		
10,200.00	6,920.44	10,019.77	6,937.52	100.40	95.70	-91.15	-321.37	-2,483.65	856.82	660.74	196.09	4.370		
10,300.00	6,919.36	10,119.76	6,936.21	103.08	98.38	-91.13	-325.01	-2,583.57	856.17	654.72	201.45	4.250		
10,400.00	6,918.28	10,219.76	6,934.89	105.77	101.07	-91.12	-328.66	-2,683.49	855.52	648.69	206.83	4.136		
10,500.00	6,917.20	10,319.76	6,933.58	108.47	103.77	-91.10	-332.30	-2,783.41	854.87	642.65	212.22	4.028		
10,600.00	6,916.12	10,419.76	6,932.26	111.18	106.47	-91.09	-335.95	-2,883.34	854.22	636.59	217.63	3.925		
10,700.00	6,915.04	10,519.75	6,930.95	113.89	109.18	-91.07	-339.59	-2,983.26	853.57	630.52	223.05	3.827		
10,800.00	6,913.96	10,619.75	6,929.63	116.61	111.90	-91.06	-343.24	-3,083.18	852.92	624.43	228.49	3.733		
10,900.00	6,912.89	10,719.75	6,928.32	119.33	114.62	-91.04	-346.88	-3,183.10	852.26	618.33	233.93	3.643		
11,000.00	6,911.81	10,819.75	6,927.00	122.06	117.35	-91.03	-350.53	-3,283.03	851.61	612.22	239.39	3.557		
11,100.00	6,910.73	10,919.75	6,925.69	124.79	120.08	-91.01	-354.17	-3,382.95	850.96	606.10	244.86	3.475		
11,200.00	6,909.65	11,019.74	6,924.38	127.53	122.82	-91.00	-357.82	-3,482.87	850.31	599.97	250.34	3.397		
11,300.00	6,908.57	11,119.74	6,923.06	130.27	125.57	-90.98	-361.46	-3,582.79	849.66	593.84	255.82	3.321		
11,400.00	6,907.49	11,219.74	6,921.75	133.02	128.31	-90.97	-365.11	-3,682.72	849.01	587.69	261.32	3.249		
11,500.00	6,906.41	11,319.74	6,920.43	135.77	131.07	-90.95	-368.75	-3,782.64	848.36	581.54	266.82	3.180		
11,600.00	6,905.34	11,419.73	6,919.12	138.52	133.82	-90.94	-372.39	-3,882.56	847.71	575.38	272.33	3.113		
11,700.00	6,904.26	11,519.73	6,917.80	141.28	136.58	-90.92	-376.04	-3,982.48	847.06	569.21	277.85	3.049		
11,800.00	6,903.18	11,619.73	6,916.49	144.04	139.34	-90.91	-379.68	-4,082.41	846.40	563.04	283.37	2.987		
11,900.00	6,902.10	11,719.73	6,915.17	146.80	142.11	-90.89	-383.33	-4,182.33	845.75	556.86	288.90	2.928		
12,000.00	6,901.02	11,819.72	6,913.86	149.57	144.88	-90.87	-386.97	-4,282.25	845.10	550.67	294.43	2.870		
12,100.00	6,899.94	11,919.72	6,912.54	152.34	147.65	-90.86	-390.62	-4,382.17	844.45	544.48	299.97	2.815		
12,200.00	6,898.87	12,019.72	6,911.23	155.11	150.42	-90.84	-394.26	-4,482.10	843.80	538.28	305.52	2.762		
12,300.00	6,897.79	12,119.72	6,909.91	157.89	153.20	-90.83	-397.91	-4,582.02	843.15	532.08	311.07	2.710		
12,400.00	6,896.71	12,219.71	6,908.60	160.66	155.98	-90.81	-401.55	-4,681.94	842.50	525.87	316.63	2.661		
12,500.00	6,895.63	12,319.71	6,907.29	163.44	158.76	-90.80	-405.20	-4,781.86	841.85	519.66	322.19	2.613		
12,600.00	6,894.55	12,419.71	6,905.97	166.22	161.54	-90.78	-408.84	-4,881.79	841.20	513.45	327.75	2.567		
12,700.00	6,893.47	12,519.71	6,904.66	169.00	164.33	-90.77	-412.49	-4,981.71	840.55	507.23	333.32	2.522		
12,800.00	6,892.39	12,619.70	6,903.34	171.79	167.11	-90.75	-416.13	-5,081.63	839.90	501.01	338.89	2.478		
12,900.00	6,891.32	12,719.70	6,902.03	174.57	169.90	-90.74	-419.78	-5,181.55	839.25	494.79	344.47	2.436		
13,000.00	6,890.24	12,819.70	6,900.71	177.36	172.69	-90.72	-423.42	-5,281.48	838.60	488.56	350.04	2.396		
13,100.00	6,889.16	12,919.70	6,899.40	180.15	175.49	-90.70	-427.07	-5,381.40	837.95	482.32	355.63	2.356		
13,200.00	6,888.08	13,019.70	6,898.08	182.94	178.28	-90.69	-430.71	-5,481.32	837.30	476.09	361.21	2.318		
13,300.00	6,887.00	13,119.69	6,896.77	185.74	181.08	-90.67	-434.36	-5,581.24	836.65	469.85	366.80	2.281		
13,400.00	6,885.92	13,219.69	6,895.45	188.53	183.87	-90.66	-438.00	-5,681.17	836.00	463.61	372.39	2.245		
13,500.00	6,884.84	13,319.69	6,894.14	191.32	186.67	-90.64	-441.65	-5,781.09	835.35	457.37	377.98	2.210		
13,600.00	6,883.77	13,419.69	6,892.82	194.12	189.47	-90.63	-445.29	-5,881.01	834.70	451.12	383.58	2.176		
13,700.00	6,882.69	13,519.68	6,891.51	196.92	192.27	-90.61	-448.94	-5,980.93	834.05	444.87	389.18	2.143		
13,800.00	6,881.61	13,619.68	6,890.20	199.72	195.07	-90.59	-452.58	-6,080.86	833.40	438.62	394.78	2.111		
13,900.00	6,880.53	13,719.68	6,888.88	202.52	197.88	-90.58	-456.23	-6,180.78	832.75	432.37	400.38	2.080		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 13N-6B-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,879.45	13,819.68	6,887.57	205.32	200.68	-90.56	-459.87	-6,280.70	832.10	426.12	405.99	2.050		
14,100.00	6,878.37	13,919.67	6,886.25	208.12	203.48	-90.55	-463.52	-6,380.62	831.45	419.86	411.59	2.020		
14,200.00	6,877.29	14,019.67	6,884.94	210.92	206.29	-90.53	-467.16	-6,480.55	830.80	413.60	417.20	1.991		
14,300.00	6,876.22	14,119.67	6,883.62	213.73	209.10	-90.52	-470.81	-6,580.47	830.16	407.34	422.82	1.963		
14,400.00	6,875.14	14,219.67	6,882.31	216.53	211.91	-90.50	-474.45	-6,680.39	829.51	401.08	428.43	1.936		
14,500.00	6,874.06	14,319.66	6,880.99	219.34	214.72	-90.48	-478.10	-6,780.32	828.86	394.81	434.04	1.910		
14,600.00	6,872.98	14,419.66	6,879.68	222.15	217.52	-90.47	-481.74	-6,880.24	828.21	388.55	439.66	1.884		
14,700.00	6,871.90	14,519.66	6,878.36	224.95	220.34	-90.45	-485.39	-6,980.16	827.56	382.28	445.28	1.859		
14,800.00	6,870.82	14,619.66	6,877.05	227.76	223.15	-90.44	-489.03	-7,080.08	826.91	376.01	450.90	1.834		
14,900.00	6,869.75	14,719.66	6,875.73	230.57	225.96	-90.42	-492.68	-7,180.01	826.26	369.74	456.52	1.810		
15,000.00	6,868.67	14,819.65	6,874.42	233.38	228.77	-90.40	-496.32	-7,279.93	825.61	363.47	462.14	1.786		
15,100.00	6,867.59	14,919.65	6,873.11	236.19	231.59	-90.39	-499.97	-7,379.85	824.96	357.20	467.77	1.764		
15,200.00	6,866.51	15,019.65	6,871.79	239.00	234.40	-90.37	-503.61	-7,479.77	824.31	350.92	473.39	1.741		
15,300.00	6,865.43	15,119.65	6,870.48	241.81	237.21	-90.35	-507.26	-7,579.70	823.67	344.65	479.02	1.719		
15,400.00	6,864.35	15,219.64	6,869.16	244.63	240.03	-90.34	-510.90	-7,679.62	823.02	338.37	484.65	1.698		
15,500.00	6,863.27	15,319.64	6,867.85	247.44	242.85	-90.32	-514.55	-7,779.54	822.37	332.09	490.28	1.677		
15,600.00	6,862.20	15,419.64	6,866.53	250.25	245.66	-90.31	-518.19	-7,879.46	821.72	325.81	495.91	1.657		
15,618.10	6,862.00	15,437.73	6,866.29	250.76	246.17	-90.30	-518.85	-7,897.54	821.60	324.68	496.92	1.653 SF		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 25N-3A-L - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	6.91	59.74	7.24	60.18						
100.00	100.00	100.00	100.00	3.28	3.28	6.91	59.74	7.24	60.18	53.61	6.57	9.160			
200.00	200.00	200.00	200.00	3.34	3.34	6.91	59.74	7.24	60.18	53.50	6.67	9.017			
300.00	299.98	299.98	299.98	3.44	3.44	-46.20	59.74	7.24	58.96	52.07	6.89	8.558			
400.00	399.84	397.91	397.89	3.61	3.60	-50.22	61.41	7.12	57.16	49.95	7.21	7.927			
453.42	453.09	450.18	450.11	3.71	3.70	-53.65	63.67	6.97	56.86	49.44	7.43	7.657 CC, ES			
500.00	499.45	495.71	495.55	3.81	3.80	-57.30	66.41	6.78	57.13	49.49	7.63	7.484			
600.00	598.70	593.21	592.70	4.06	4.04	-66.66	74.70	6.20	59.91	51.77	8.14	7.361			
700.00	697.47	690.28	689.07	4.35	4.31	-76.75	86.22	5.40	66.53	57.82	8.70	7.643			
800.00	795.62	787.05	784.71	4.66	4.60	-86.02	100.92	4.39	77.54	68.23	9.31	8.326			
900.00	893.06	885.22	881.54	5.01	4.92	-94.55	117.09	3.27	91.42	81.47	9.95	9.185			
961.44	952.51	945.30	940.79	5.25	5.12	-99.48	126.98	2.58	101.05	90.68	10.37	9.742			
1,000.00	989.71	982.93	977.91	5.40	5.25	-102.43	133.17	2.15	107.53	96.89	10.65	10.101			
1,100.00	1,086.20	1,080.53	1,074.17	5.81	5.61	-108.63	149.24	1.04	125.41	114.03	11.38	11.019			
1,200.00	1,182.69	1,178.13	1,170.43	6.24	5.98	-113.26	165.31	-0.07	144.36	132.21	12.15	11.882			
1,300.00	1,279.18	1,275.73	1,266.69	6.69	6.36	-116.81	181.38	-1.18	164.01	151.07	12.94	12.672			
1,400.00	1,375.67	1,373.33	1,362.95	7.15	6.75	-119.59	197.45	-2.30	184.15	170.39	13.76	13.385			
1,500.00	1,472.15	1,470.92	1,459.21	7.62	7.15	-121.83	213.52	-3.41	204.62	190.03	14.59	14.025			
1,600.00	1,568.64	1,568.52	1,555.47	8.10	7.55	-123.66	229.59	-4.52	225.34	209.90	15.44	14.598			
1,700.00	1,665.13	1,666.12	1,651.73	8.59	7.97	-125.18	245.66	-5.63	246.24	229.95	16.29	15.112			
1,800.00	1,761.62	1,763.72	1,747.99	9.08	8.38	-126.47	261.73	-6.75	267.28	250.12	17.16	15.573			
1,900.00	1,858.11	1,861.32	1,844.25	9.58	8.80	-127.56	277.80	-7.86	288.44	270.40	18.04	15.989			
2,000.00	1,954.60	1,958.92	1,940.51	10.08	9.23	-128.51	293.87	-8.97	309.68	290.75	18.92	16.364			
2,100.00	2,051.09	2,056.52	2,036.77	10.59	9.65	-129.34	309.94	-10.08	330.99	311.17	19.82	16.703			
2,200.00	2,147.57	2,154.12	2,133.03	11.09	10.08	-130.06	326.01	-11.20	352.35	331.64	20.71	17.012			
2,300.00	2,244.06	2,251.71	2,229.29	11.61	10.51	-130.70	342.08	-12.31	373.77	352.16	21.61	17.293			
2,400.00	2,340.55	2,349.31	2,325.55	12.12	10.95	-131.28	358.15	-13.42	395.23	372.71	22.52	17.550			
2,500.00	2,437.04	2,446.91	2,421.81	12.64	11.38	-131.79	374.22	-14.53	416.72	393.29	23.43	17.786			
2,600.00	2,533.53	2,544.51	2,518.07	13.15	11.82	-132.25	390.29	-15.64	438.24	413.89	24.34	18.003			
2,700.00	2,630.02	2,642.11	2,614.33	13.67	12.26	-132.67	406.36	-16.76	459.78	434.52	25.26	18.203			
2,800.00	2,726.50	2,739.71	2,710.59	14.19	12.70	-133.06	422.43	-17.87	481.35	455.17	26.18	18.388			
2,900.00	2,822.99	2,837.31	2,806.85	14.72	13.14	-133.41	438.50	-18.98	502.93	475.83	27.10	18.560			
3,000.00	2,919.48	2,934.91	2,903.11	15.24	13.59	-133.73	454.57	-20.09	524.53	496.51	28.02	18.719			
3,100.00	3,015.97	3,032.50	2,999.37	15.76	14.03	-134.02	470.64	-21.21	546.15	517.20	28.95	18.867			
3,200.00	3,112.46	3,130.10	3,095.63	16.29	14.47	-134.30	486.71	-22.32	567.77	537.90	29.87	19.006			
3,300.00	3,208.95	3,227.70	3,191.89	16.81	14.92	-134.55	502.78	-23.43	589.41	558.61	30.80	19.136			
3,400.00	3,305.44	3,325.30	3,288.15	17.34	15.37	-134.79	518.85	-24.54	611.06	579.33	31.73	19.257			
3,500.00	3,401.92	3,422.90	3,384.41	17.87	15.81	-135.00	534.92	-25.66	632.72	600.06	32.66	19.371			
3,600.00	3,498.41	3,520.50	3,480.67	18.40	16.26	-135.21	550.99	-26.77	654.39	620.79	33.60	19.478			
3,700.00	3,594.90	3,618.10	3,576.93	18.93	16.71	-135.40	567.06	-27.88	676.06	641.53	34.53	19.579			
3,800.00	3,691.39	3,715.70	3,673.19	19.46	17.16	-135.58	583.13	-28.99	697.74	662.28	35.47	19.674			
3,900.00	3,787.88	3,813.29	3,769.45	19.99	17.60	-135.75	599.20	-30.11	719.43	683.03	36.40	19.764			
4,000.00	3,884.37	3,910.89	3,865.71	20.52	18.05	-135.91	615.27	-31.22	741.12	703.78	37.34	19.849			
4,100.00	3,980.85	4,008.49	3,961.97	21.05	18.50	-136.06	631.34	-32.33	762.82	724.54	38.28	19.930			
4,200.00	4,077.34	4,106.09	4,058.23	21.58	18.95	-136.20	647.41	-33.44	784.52	745.31	39.21	20.006			
4,300.00	4,173.83	4,203.69	4,154.49	22.11	19.40	-136.33	663.48	-34.56	806.23	766.08	40.15	20.079			
4,390.25	4,260.91	4,308.23	4,241.37	22.59	19.89	-136.45	677.99	-35.56	825.82	784.75	41.08	20.104			
4,400.00	4,270.32	4,301.29	4,250.76	22.64	19.85	-136.49	679.55	-35.67	827.93	786.84	41.09	20.148			
4,500.00	4,367.33	4,400.78	4,347.34	23.16	20.31	-136.80	695.68	-36.79	848.16	806.13	42.03	20.178			
4,600.00	4,465.13	4,502.40	4,444.38	23.65	20.78	-136.90	711.88	-37.91	865.90	822.92	42.97	20.150			
4,700.00	4,563.60	4,603.67	4,541.75	24.12	21.25	-136.82	728.13	-39.03	881.13	837.23	43.90	20.071			
4,800.00	4,662.61	4,704.72	4,639.35	24.56	21.72	-136.56	744.42	-40.16	893.89	849.07	44.81	19.947			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 25N-3A-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,805.66	4,737.04	24.98	22.19	-136.13	760.73	-41.29	904.19	858.48	45.71	19.779		
5,000.00	4,861.80	4,906.63	4,834.71	25.38	22.66	-135.52	777.04	-42.42	912.11	865.51	46.60	19.572		
5,100.00	4,961.73	4,992.26	4,932.25	25.76	23.05	-134.75	793.32	-43.54	917.71	870.31	47.41	19.358		
5,151.69	5,013.42	5,043.28	4,982.57	25.95	23.29	-82.39	801.72	-44.13	919.74	871.89	47.85	19.221		
5,200.00	5,061.73	5,109.07	5,029.56	26.13	23.59	-81.91	809.57	-44.67	921.39	873.05	48.34	19.059		
5,300.00	5,161.73	5,189.55	5,126.84	26.49	23.97	-80.92	825.81	-45.79	925.02	875.91	49.11	18.835		
5,400.00	5,261.73	5,288.18	5,224.11	26.86	24.43	-79.95	842.05	-46.92	928.94	878.97	49.96	18.592		
5,500.00	5,361.73	5,386.81	5,321.39	27.23	24.88	-78.97	858.29	-48.04	933.12	882.30	50.82	18.362		
5,600.00	5,461.73	5,485.44	5,418.67	27.60	25.34	-78.01	874.53	-49.17	937.58	885.91	51.67	18.144		
5,700.00	5,561.73	5,584.07	5,515.94	27.97	25.80	-77.06	890.77	-50.29	942.31	889.78	52.53	17.938		
5,800.00	5,661.73	5,682.70	5,613.22	28.35	26.26	-76.12	907.01	-51.41	947.30	893.91	53.39	17.744		
5,900.00	5,761.73	5,781.33	5,710.49	28.72	26.72	-75.18	923.25	-52.54	952.55	898.30	54.25	17.560		
6,000.00	5,861.73	5,879.95	5,807.77	29.10	27.18	-74.26	939.49	-53.66	958.05	902.95	55.10	17.386		
6,100.00	5,961.73	5,978.58	5,905.05	29.48	27.63	-73.35	955.72	-54.79	963.81	907.84	55.96	17.222		
6,200.00	6,061.73	7,558.88	6,832.95	29.86	38.81	-1.29	1,112.84	857.27	884.44	855.40	29.03	30.463		
6,300.00	6,161.73	7,559.91	6,832.96	30.25	38.82	-1.15	1,112.84	858.30	798.74	766.21	32.52	24.558		
6,400.00	6,261.73	7,560.94	6,832.97	30.63	38.84	-1.02	1,112.85	859.33	716.75	679.92	36.83	19.462		
6,451.69	6,313.42	7,561.47	6,832.98	30.83	38.85	-0.94	1,112.85	859.86	676.27	636.86	39.42	17.156		
6,500.00	6,361.68	7,560.14	6,832.96	31.01	38.83	96.28	1,112.84	858.53	639.98	597.92	42.06	15.217		
6,550.00	6,411.34	7,554.91	6,832.91	31.20	38.74	100.10	1,112.82	853.30	604.46	559.49	44.97	13.441		
6,600.00	6,460.39	7,545.80	6,832.81	31.38	38.59	102.82	1,112.79	844.20	571.55	523.51	48.04	11.896		
6,650.00	6,508.54	7,532.87	6,832.68	31.58	38.37	104.50	1,112.73	831.26	541.75	490.54	51.21	10.580		
6,700.00	6,555.48	7,516.19	6,832.51	31.78	38.10	105.23	1,112.66	814.58	515.50	461.13	54.37	9.481		
6,750.00	6,600.93	7,504.13	6,832.30	31.98	37.90	105.10	1,112.58	794.26	493.18	435.64	57.54	8.571		
6,800.00	6,644.61	7,472.03	6,832.05	32.20	37.41	104.19	1,112.48	770.43	475.03	414.77	60.26	7.883		
6,850.00	6,686.25	7,444.82	6,831.77	32.44	37.00	102.60	1,112.37	743.22	461.12	398.38	62.74	7.350		
6,900.00	6,725.58	7,414.41	6,831.46	32.68	36.54	100.43	1,112.24	712.81	451.35	386.58	64.76	6.969		
6,950.00	6,762.38	7,380.98	6,831.11	32.96	36.07	97.78	1,112.11	679.38	445.40	379.09	66.32	6.716		
7,000.00	6,796.41	7,344.75	6,830.74	33.25	35.58	94.79	1,111.96	643.15	442.82	375.42	67.40	6.570		
7,020.51	6,809.52	7,329.13	6,830.58	33.38	35.37	93.50	1,111.89	627.53	442.60	374.89	67.71	6.536		
7,050.00	6,827.46	7,305.93	6,830.34	33.58	35.06	91.61	1,111.80	604.33	443.02	374.98	68.04	6.511 SF		
7,100.00	6,855.34	7,264.07	6,829.85	33.93	34.54	88.34	1,111.62	562.48	445.34	376.98	68.36	6.515		
7,150.00	6,879.88	7,219.62	6,827.24	34.33	34.03	84.93	1,111.07	518.12	449.04	380.58	68.45	6.560		
7,200.00	6,900.93	7,176.72	6,821.83	34.76	33.56	81.62	1,110.07	475.58	453.82	385.44	68.37	6.637		
7,250.00	6,918.36	7,135.17	6,813.91	35.23	33.12	78.43	1,108.65	434.83	459.52	391.36	68.16	6.742		
7,300.00	6,932.05	7,094.81	6,803.72	35.74	32.73	75.36	1,106.85	395.82	465.99	398.14	67.86	6.867		
7,350.00	6,941.94	7,055.49	6,791.47	36.29	32.38	72.43	1,104.72	358.52	473.04	405.54	67.51	7.007		
7,400.00	6,947.94	7,017.08	6,777.33	36.87	32.06	69.64	1,102.27	322.90	480.51	413.36	67.15	7.156		
7,450.00	6,950.04	6,979.49	6,761.47	37.47	31.77	67.01	1,099.54	288.94	488.21	421.40	66.81	7.307		
7,458.56	6,950.00	6,973.13	6,758.59	37.58	31.72	66.57	1,099.05	283.29	489.54	422.79	66.76	7.333		
7,500.00	6,949.56	6,943.14	6,744.27	38.11	31.51	65.00	1,096.60	257.05	496.57	430.08	66.49	7.468		
7,600.00	6,948.48	6,876.94	6,708.46	39.51	31.12	61.17	1,090.49	201.75	518.70	452.90	65.79	7.884		
7,700.00	6,947.40	6,819.21	6,672.75	41.06	31.00	57.51	1,084.42	156.82	548.99	483.89	65.10	8.433		
7,800.00	6,946.32	6,769.19	6,638.68	42.74	30.88	54.20	1,078.64	120.68	587.83	523.33	64.50	9.114		
7,900.00	6,945.24	6,725.95	6,607.04	44.55	30.76	51.28	1,073.29	91.71	634.90	570.84	64.05	9.912		
8,000.00	6,944.16	6,688.52	6,578.13	46.46	30.65	48.75	1,068.41	68.44	689.45	625.67	63.78	10.810		
8,100.00	6,943.08	6,650.00	6,547.04	48.47	30.53	46.18	1,063.16	46.33	750.58	687.11	63.47	11.826		
8,200.00	6,942.01	6,627.66	6,528.42	50.55	30.46	44.71	1,060.02	34.40	817.18	753.56	63.62	12.844		
8,300.00	6,940.93	6,600.00	6,504.81	52.71	30.36	42.92	1,056.05	20.55	888.51	824.93	63.58	13.975		
8,400.00	6,939.85	6,580.91	6,488.18	54.93	30.29	41.70	1,053.25	11.61	963.71	899.99	63.72	15.124		
8,500.00	6,938.77	6,550.00	6,460.71	57.20	30.18	39.79	1,048.63	-1.79	1,042.32	978.74	63.57	16.395		
8,600.00	6,937.69	6,550.00	6,460.71	59.53	30.18	39.79	1,048.63	-1.79	1,123.35	1,059.36	64.00	17.553		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 25N-3A-L - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,700.00	6,936.61	6,528.78	6,441.50	61.89	30.10	38.51	1,045.40	-10.20	1,206.73	1,142.74	63.99	18.859			
8,800.00	6,935.54	6,514.88	6,428.76	64.30	30.05	37.69	1,043.26	-15.35	1,292.05	1,227.98	64.07	20.166			
8,900.00	6,934.46	6,500.00	6,415.02	66.74	29.99	36.82	1,040.96	-20.56	1,378.99	1,314.87	64.12	21.508			
9,000.00	6,933.38	6,500.00	6,415.02	69.21	29.99	36.82	1,040.96	-20.56	1,467.38	1,403.06	64.32	22.814			
9,100.00	6,932.30	6,480.57	6,396.90	71.71	29.91	35.72	1,037.92	-26.86	1,556.77	1,492.50	64.28	24.220			
9,200.00	6,931.22	6,471.10	6,387.99	74.23	29.87	35.20	1,036.42	-29.72	1,647.27	1,582.94	64.33	25.607			
9,300.00	6,930.14	6,450.00	6,368.01	76.78	29.79	34.05	1,033.07	-35.63	1,738.80	1,674.54	64.26	27.057			
9,400.00	6,929.06	6,450.00	6,368.01	79.34	29.79	34.05	1,033.07	-35.63	1,830.80	1,766.42	64.38	28.436			
9,500.00	6,927.99	6,450.00	6,368.01	81.93	29.79	34.05	1,033.07	-35.63	1,923.60	1,859.12	64.48	29.832			
9,600.00	6,926.91	6,450.00	6,368.01	84.53	29.79	34.05	1,033.07	-35.63	2,017.09	1,952.53	64.56	31.242			
9,700.00	6,925.83	6,450.00	6,368.01	87.14	29.79	34.05	1,033.07	-35.63	2,111.17	2,046.54	64.63	32.665			
9,800.00	6,924.75	6,427.99	6,346.98	89.77	29.70	32.89	1,029.55	-41.06	2,205.30	2,140.75	64.55	34.162			
9,900.00	6,923.67	6,422.50	6,341.70	92.41	29.67	32.61	1,028.66	-42.31	2,300.10	2,235.52	64.58	35.616			
10,000.00	6,922.59	6,400.00	6,319.99	95.07	29.58	31.47	1,025.03	-46.91	2,395.56	2,331.05	64.51	37.136			
10,100.00	6,921.51	6,400.00	6,319.99	97.73	29.58	31.47	1,025.03	-46.91	2,490.92	2,426.36	64.56	38.581			
10,200.00	6,920.44	6,400.00	6,319.99	100.40	29.58	31.47	1,025.03	-46.91	2,586.63	2,522.02	64.61	40.033			
10,300.00	6,919.36	6,400.00	6,319.99	103.08	29.58	31.47	1,025.03	-46.91	2,682.66	2,618.00	64.66	41.490			
10,400.00	6,918.28	6,400.00	6,319.99	105.77	29.58	31.47	1,025.03	-46.91	2,778.96	2,714.26	64.70	42.952			
10,500.00	6,917.20	6,400.00	6,319.99	108.47	29.58	31.47	1,025.03	-46.91	2,875.52	2,810.78	64.74	44.418			
10,600.00	6,916.12	6,400.00	6,319.99	111.18	29.58	31.47	1,025.03	-46.91	2,972.30	2,907.53	64.77	45.887			
10,700.00	6,915.04	6,400.00	6,319.99	113.89	29.58	31.47	1,025.03	-46.91	3,069.29	3,004.48	64.81	47.358			
10,800.00	6,913.96	6,400.00	6,319.99	116.61	29.58	31.47	1,025.03	-46.91	3,166.47	3,101.63	64.84	48.832			
10,900.00	6,912.89	6,400.00	6,319.99	119.33	29.58	31.47	1,025.03	-46.91	3,263.82	3,198.94	64.88	50.308			
11,000.00	6,911.81	6,400.00	6,319.99	122.06	29.58	31.47	1,025.03	-46.91	3,361.32	3,296.41	64.91	51.785			
11,100.00	6,910.73	6,377.27	6,297.90	124.79	29.48	30.37	1,021.33	-50.77	3,458.49	3,393.63	64.86	53.321			
11,200.00	6,909.65	6,374.67	6,295.36	127.53	29.47	30.24	1,020.90	-51.16	3,556.16	3,491.27	64.89	54.805			
11,300.00	6,908.57	6,372.18	6,292.93	130.27	29.46	30.12	1,020.50	-51.52	3,653.94	3,589.02	64.91	56.289			
11,400.00	6,907.49	6,350.00	6,271.23	133.02	29.36	29.09	1,016.87	-54.34	3,752.18	3,687.30	64.88	57.836			
11,500.00	6,906.41	6,350.00	6,271.23	135.77	29.36	29.09	1,016.87	-54.34	3,850.09	3,785.17	64.91	59.311			
11,600.00	6,905.34	6,350.00	6,271.23	138.52	29.36	29.09	1,016.87	-54.34	3,948.10	3,883.15	64.95	60.786			
11,700.00	6,904.26	6,350.00	6,271.23	141.28	29.36	29.09	1,016.87	-54.34	4,046.21	3,981.22	64.99	62.260			
11,800.00	6,903.18	6,350.00	6,271.23	144.04	29.36	29.09	1,016.87	-54.34	4,144.41	4,079.38	65.03	63.734			
11,900.00	6,902.10	6,350.00	6,271.23	146.80	29.36	29.09	1,016.87	-54.34	4,242.69	4,177.63	65.07	65.206			
12,000.00	6,901.02	6,350.00	6,271.23	149.57	29.36	29.09	1,016.87	-54.34	4,341.06	4,275.95	65.10	66.678			
12,100.00	6,899.94	6,350.00	6,271.23	152.34	29.36	29.09	1,016.87	-54.34	4,439.49	4,374.35	65.14	68.148			
12,200.00	6,898.87	6,350.00	6,271.23	155.11	29.36	29.09	1,016.87	-54.34	4,538.00	4,472.81	65.18	69.617			
12,300.00	6,897.79	6,350.00	6,271.23	157.89	29.36	29.09	1,016.87	-54.34	4,636.56	4,571.34	65.23	71.085			
12,400.00	6,896.71	6,350.00	6,271.23	160.66	29.36	29.09	1,016.87	-54.34	4,735.19	4,669.92	65.27	72.550			
12,500.00	6,895.63	6,350.00	6,271.23	163.44	29.36	29.09	1,016.87	-54.34	4,833.88	4,768.57	65.31	74.014			
12,600.00	6,894.55	6,350.00	6,271.23	166.22	29.36	29.09	1,016.87	-54.34	4,932.61	4,867.26	65.35	75.475			
12,700.00	6,893.47	6,350.00	6,271.23	169.00	29.36	29.09	1,016.87	-54.34	5,031.40	4,966.00	65.40	76.935			
12,800.00	6,892.39	6,350.00	6,271.23	171.79	29.36	29.09	1,016.87	-54.34	5,130.23	5,064.79	65.44	78.392			
12,900.00	6,891.32	6,350.00	6,271.23	174.57	29.36	29.09	1,016.87	-54.34	5,229.11	5,163.62	65.49	79.846			
13,000.00	6,890.24	6,350.00	6,271.23	177.36	29.36	29.09	1,016.87	-54.34	5,328.03	5,262.50	65.54	81.299			
13,100.00	6,889.16	6,350.00	6,271.23	180.15	29.36	29.09	1,016.87	-54.34	5,426.99	5,361.41	65.58	82.748			
13,200.00	6,888.08	6,350.00	6,271.23	182.94	29.36	29.09	1,016.87	-54.34	5,525.99	5,460.36	65.63	84.195			
13,300.00	6,887.00	6,350.00	6,271.23	185.74	29.36	29.09	1,016.87	-54.34	5,625.02	5,559.34	65.68	85.639			
13,400.00	6,885.92	6,350.00	6,271.23	188.53	29.36	29.09	1,016.87	-54.34	5,724.09	5,658.36	65.73	87.080			
13,500.00	6,884.84	6,350.00	6,271.23	191.32	29.36	29.09	1,016.87	-54.34	5,823.19	5,757.40	65.79	88.518			
13,600.00	6,883.77	6,350.00	6,271.23	194.12	29.36	29.09	1,016.87	-54.34	5,922.32	5,856.48	65.84	89.953			
13,700.00	6,882.69	6,350.00	6,271.23	196.92	29.36	29.09	1,016.87	-54.34	6,021.48	5,955.58	65.89	91.385			
13,800.00	6,881.61	6,350.00	6,271.23	199.72	29.36	29.09	1,016.87	-54.34	6,120.66	6,054.72	65.95	92.814			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 25N-3A-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,900.00	6,880.53	6,350.00	6,271.23	202.52	29.36	29.09	1,016.87	-54.34	6,219.87	6,153.87	66.00	94.239		
14,000.00	6,879.45	6,350.00	6,271.23	205.32	29.36	29.09	1,016.87	-54.34	6,319.11	6,253.05	66.06	95.661		
14,100.00	6,878.37	6,350.00	6,271.23	208.12	29.36	29.09	1,016.87	-54.34	6,418.37	6,352.25	66.11	97.079		
14,200.00	6,877.29	6,350.00	6,271.23	210.92	29.36	29.09	1,016.87	-54.34	6,517.65	6,451.48	66.17	98.495		
14,300.00	6,876.22	6,350.00	6,271.23	213.73	29.36	29.09	1,016.87	-54.34	6,616.95	6,550.72	66.23	99.906		
14,400.00	6,875.14	6,350.00	6,271.23	216.53	29.36	29.09	1,016.87	-54.34	6,716.28	6,649.99	66.29	101.314		
14,500.00	6,874.06	6,350.00	6,271.23	219.34	29.36	29.09	1,016.87	-54.34	6,815.62	6,749.27	66.35	102.718		
14,600.00	6,872.98	6,326.93	6,248.58	222.15	29.25	28.06	1,013.08	-56.45	6,914.53	6,848.17	66.36	104.199		
14,700.00	6,871.90	6,326.17	6,247.83	224.95	29.25	28.03	1,012.95	-56.51	7,013.88	6,947.46	66.42	105.600		
14,800.00	6,870.82	6,325.42	6,247.10	227.76	29.25	28.00	1,012.83	-56.56	7,113.25	7,046.77	66.48	106.996		
14,900.00	6,869.75	6,324.70	6,246.38	230.57	29.24	27.97	1,012.71	-56.62	7,212.64	7,146.09	66.54	108.388		
15,000.00	6,868.67	6,323.99	6,245.69	233.38	29.24	27.94	1,012.60	-56.66	7,312.04	7,245.43	66.61	109.777		
15,100.00	6,867.59	6,323.31	6,245.01	236.19	29.24	27.91	1,012.48	-56.71	7,411.45	7,344.78	66.67	111.161		
15,200.00	6,866.51	6,300.00	6,222.05	239.00	29.13	26.91	1,008.65	-57.87	7,511.32	7,444.63	66.68	112.639		
15,300.00	6,865.43	6,300.00	6,222.05	241.81	29.13	26.91	1,008.65	-57.87	7,610.74	7,543.99	66.75	114.013		
15,400.00	6,864.35	6,300.00	6,222.05	244.63	29.13	26.91	1,008.65	-57.87	7,710.18	7,643.35	66.82	115.383		
15,500.00	6,863.27	6,300.00	6,222.05	247.44	29.13	26.91	1,008.65	-57.87	7,809.62	7,742.73	66.89	116.750		
15,600.00	6,862.20	6,300.00	6,222.05	250.25	29.13	26.91	1,008.65	-57.87	7,909.09	7,842.13	66.96	118.112		
15,618.10	6,862.00	6,300.00	6,222.05	250.76	29.13	26.91	1,008.65	-57.87	7,927.09	7,860.11	66.98	118.358		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 25N-3B-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	5.75	74.68	7.52	75.06					
100.00	100.00	100.00	100.00	3.28	3.28	5.75	74.68	7.52	75.06	68.49	6.57	11.426		
200.00	200.00	200.00	200.00	3.34	3.34	5.75	74.68	7.52	75.06	68.38	6.67	11.246	CC, ES	
300.00	299.98	297.45	297.43	3.44	3.44	-47.26	76.34	7.43	75.55	68.65	6.90	10.955		
400.00	399.84	394.76	394.61	3.61	3.60	-50.49	81.29	7.18	77.18	69.95	7.23	10.672		
500.00	499.45	491.78	491.28	3.81	3.80	-55.53	89.51	6.76	80.44	72.77	7.67	10.493		
600.00	598.70	588.38	587.19	4.06	4.04	-61.82	100.93	6.19	85.97	77.79	8.18	10.512		
700.00	697.47	684.55	682.24	4.35	4.31	-68.65	115.51	5.45	94.44	85.69	8.75	10.795		
800.00	795.62	783.17	779.48	4.66	4.60	-75.92	131.93	4.62	104.68	95.34	9.34	11.206		
900.00	893.06	881.40	876.34	5.01	4.92	-83.43	148.29	3.79	115.94	105.96	9.99	11.611		
961.44	952.51	941.51	935.60	5.25	5.13	-88.07	158.30	3.28	123.70	113.29	10.41	11.883		
1,000.00	989.71	979.17	972.73	5.40	5.26	-90.96	164.58	2.96	128.97	118.29	10.68	12.071		
1,100.00	1,086.20	1,076.83	1,069.03	5.81	5.62	-97.42	180.84	2.14	143.98	132.56	11.43	12.601		
1,200.00	1,182.69	1,174.49	1,165.32	6.24	6.00	-102.64	197.11	1.31	160.48	148.28	12.20	13.154		
1,300.00	1,279.18	1,272.16	1,261.62	6.69	6.38	-106.87	213.38	0.49	178.04	165.04	13.00	13.695		
1,400.00	1,375.67	1,369.82	1,357.92	7.15	6.78	-110.34	229.64	-0.33	196.38	182.56	13.82	14.210		
1,500.00	1,472.15	1,467.48	1,454.21	7.62	7.18	-113.22	245.91	-1.16	215.31	200.65	14.66	14.689		
1,600.00	1,568.64	1,565.14	1,550.51	8.10	7.59	-115.62	262.17	-1.98	234.68	219.17	15.51	15.131		
1,700.00	1,665.13	1,662.81	1,646.80	8.59	8.00	-117.67	278.44	-2.81	254.39	238.02	16.37	15.537		
1,800.00	1,761.62	1,760.47	1,743.10	9.08	8.42	-119.41	294.71	-3.63	274.37	257.13	17.25	15.909		
1,900.00	1,858.11	1,858.13	1,839.39	9.58	8.84	-120.92	310.97	-4.45	294.57	276.44	18.13	16.250		
2,000.00	1,954.60	1,955.80	1,935.69	10.08	9.27	-122.24	327.24	-5.28	314.93	295.92	19.02	16.561		
2,100.00	2,051.09	2,053.46	2,031.98	10.59	9.70	-123.40	343.51	-6.10	335.44	315.53	19.91	16.847		
2,200.00	2,147.57	2,151.12	2,128.28	11.09	10.13	-124.42	359.77	-6.93	356.06	335.25	20.81	17.109		
2,300.00	2,244.06	2,248.78	2,224.57	11.61	10.56	-125.34	376.04	-7.75	376.78	355.06	21.72	17.350		
2,400.00	2,340.55	2,346.45	2,320.87	12.12	11.00	-126.15	392.30	-8.57	397.58	374.96	22.63	17.572		
2,500.00	2,437.04	2,444.11	2,417.16	12.64	11.44	-126.89	408.57	-9.40	418.45	394.92	23.54	17.778		
2,600.00	2,533.53	2,541.77	2,513.46	13.15	11.88	-127.56	424.84	-10.22	439.39	414.93	24.45	17.968		
2,700.00	2,630.02	2,639.43	2,609.75	13.67	12.32	-128.16	441.10	-11.05	460.37	435.00	25.37	18.144		
2,800.00	2,726.50	2,737.10	2,706.05	14.19	12.76	-128.71	457.37	-11.87	481.40	455.10	26.29	18.308		
2,900.00	2,822.99	2,834.76	2,802.34	14.72	13.20	-129.22	473.64	-12.69	502.47	475.25	27.22	18.461		
3,000.00	2,919.48	2,932.42	2,898.64	15.24	13.64	-129.69	489.90	-13.52	523.57	495.43	28.14	18.603		
3,100.00	3,015.97	3,030.09	2,994.93	15.76	14.09	-130.12	506.17	-14.34	544.70	515.63	29.07	18.736		
3,200.00	3,112.46	3,127.75	3,091.23	16.29	14.54	-130.51	522.43	-15.17	565.86	535.86	30.00	18.861		
3,300.00	3,208.95	3,225.41	3,187.52	16.81	14.98	-130.88	538.70	-15.99	587.05	556.12	30.93	18.978		
3,400.00	3,305.44	3,323.07	3,283.82	17.34	15.43	-131.23	554.97	-16.81	608.25	576.39	31.86	19.089		
3,500.00	3,401.92	3,420.74	3,380.11	17.87	15.88	-131.55	571.23	-17.64	629.48	596.68	32.80	19.192		
3,600.00	3,498.41	3,518.40	3,476.41	18.40	16.32	-131.85	587.50	-18.46	650.72	616.99	33.73	19.290		
3,700.00	3,594.90	3,616.06	3,572.70	18.93	16.77	-132.13	603.77	-19.29	671.98	637.31	34.67	19.382		
3,800.00	3,691.39	3,713.73	3,669.00	19.46	17.22	-132.39	620.03	-20.11	693.26	657.65	35.61	19.470		
3,900.00	3,787.88	3,811.39	3,765.29	19.99	17.67	-132.64	636.30	-20.93	714.54	678.00	36.54	19.553		
4,000.00	3,884.37	3,909.05	3,861.59	20.52	18.12	-132.87	652.56	-21.76	735.84	698.36	37.48	19.631		
4,100.00	3,980.85	4,006.71	3,957.88	21.05	18.57	-133.09	668.83	-22.58	757.15	718.73	38.42	19.705		
4,200.00	4,077.34	4,104.38	4,054.18	21.58	19.03	-133.30	685.10	-23.41	778.47	739.11	39.36	19.776		
4,300.00	4,173.83	4,202.04	4,150.47	22.11	19.48	-133.50	701.36	-24.23	799.80	759.50	40.31	19.844		
4,390.25	4,260.91	4,309.82	4,237.38	22.59	19.98	-133.67	716.04	-24.97	819.06	777.81	41.25	19.858		
4,400.00	4,270.32	4,300.29	4,246.77	22.64	19.93	-133.71	717.63	-25.05	821.13	779.88	41.25	19.906		
4,500.00	4,367.33	4,402.31	4,343.38	23.16	20.40	-134.08	733.95	-25.88	841.06	798.85	42.20	19.928		
4,600.00	4,465.13	4,503.88	4,440.44	23.65	20.87	-134.24	750.34	-26.71	858.60	815.46	43.14	19.901		
4,700.00	4,563.60	4,594.88	4,537.82	24.12	21.30	-134.19	766.79	-27.54	873.76	829.73	44.02	19.847		
4,800.00	4,662.61	4,706.15	4,635.40	24.56	21.81	-133.96	783.28	-28.38	886.54	841.55	44.99	19.707		
4,900.00	4,762.05	4,807.09	4,733.07	24.98	22.28	-133.55	799.78	-29.22	896.97	851.09	45.89	19.547		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 25N-3B-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,908.06	4,830.71	25.38	22.75	-132.95	816.27	-30.05	905.13	858.35	46.78	19.350		
5,100.00	4,961.73	5,009.19	4,928.20	25.76	23.22	-132.18	832.74	-30.89	911.09	863.43	47.65	19.119		
5,151.69	5,013.42	5,041.82	4,978.50	25.95	23.37	-79.82	841.23	-31.32	913.34	865.33	48.01	19.024		
5,200.00	5,061.73	5,089.45	5,025.46	26.13	23.59	-79.34	849.17	-31.72	915.22	866.80	48.42	18.901		
5,300.00	5,161.73	5,188.05	5,122.68	26.49	24.05	-78.34	865.59	-32.55	919.32	870.05	49.27	18.658		
5,400.00	5,261.73	5,286.65	5,219.90	26.86	24.51	-77.35	882.01	-33.38	923.71	873.59	50.12	18.428		
5,500.00	5,361.73	5,385.25	5,317.12	27.23	24.97	-76.38	898.43	-34.21	928.38	877.40	50.98	18.211		
5,600.00	5,461.73	5,483.85	5,414.34	27.60	25.43	-75.41	914.86	-35.05	933.32	881.49	51.83	18.006		
5,700.00	5,561.73	5,582.45	5,511.56	27.97	25.88	-74.45	931.28	-35.88	938.53	885.84	52.69	17.812		
5,800.00	5,661.73	5,681.05	5,608.78	28.35	26.34	-73.50	947.70	-36.71	944.01	890.46	53.55	17.630		
5,900.00	5,761.73	5,779.65	5,705.99	28.72	26.80	-72.56	964.12	-37.54	949.75	895.35	54.40	17.457		
6,000.00	5,861.73	5,878.25	5,803.21	29.10	27.26	-71.64	980.54	-38.37	955.75	900.48	55.26	17.294		
6,100.00	5,961.73	5,976.85	5,900.43	29.48	27.72	-70.72	996.97	-39.21	961.99	905.87	56.12	17.141		
6,200.00	6,061.73	6,075.45	5,997.65	29.86	28.18	-69.82	1,013.39	-40.04	968.49	911.51	56.98	16.996		
6,300.00	6,161.73	7,669.33	6,957.74	30.25	29.03	-1.70	1,186.11	851.98	943.40	911.28	32.12	29.372		
6,400.00	6,261.73	7,670.36	6,957.75	30.63	29.05	-1.58	1,186.12	853.02	860.70	824.97	35.73	24.091		
6,451.69	6,313.42	7,670.89	6,957.76	30.83	29.06	-1.52	1,186.13	853.55	819.46	781.61	37.86	21.647		
6,500.00	6,361.68	7,669.56	6,957.74	31.01	29.04	96.08	1,186.11	852.21	782.10	742.11	40.00	19.555		
6,550.00	6,411.34	7,664.33	6,957.69	31.20	28.95	100.43	1,186.04	846.99	745.02	702.69	42.33	17.599		
6,600.00	6,460.39	7,655.22	6,957.59	31.38	28.81	103.79	1,185.92	837.88	709.97	665.18	44.78	15.853		
6,650.00	6,508.54	7,642.28	6,957.46	31.58	28.60	106.21	1,185.74	824.94	677.33	630.01	47.32	14.315		
6,700.00	6,555.48	7,625.60	6,957.29	31.78	28.34	107.78	1,185.52	808.26	647.46	597.57	49.88	12.979		
6,750.00	6,600.93	7,605.27	6,957.08	31.98	28.01	108.59	1,185.25	787.93	620.65	568.22	52.43	11.837		
6,800.00	6,644.61	7,581.42	6,956.83	32.20	27.66	108.73	1,184.93	764.09	597.14	542.21	54.93	10.871		
6,850.00	6,686.25	7,554.20	6,956.55	32.44	27.27	108.27	1,184.56	736.88	577.05	519.76	57.29	10.073		
6,900.00	6,725.58	7,523.78	6,956.24	32.68	36.83	107.30	1,184.15	706.46	560.40	500.97	59.44	9.429		
6,950.00	6,762.38	7,509.66	6,955.89	32.96	36.63	105.90	1,183.70	673.03	547.10	485.51	61.58	8.884		
7,000.00	6,796.41	7,454.10	6,955.52	33.25	35.91	104.18	1,183.21	636.78	536.92	473.93	62.99	8.523		
7,050.00	6,827.46	7,415.26	6,955.12	33.58	35.41	102.22	1,182.69	597.96	529.58	465.23	64.35	8.230		
7,100.00	6,855.34	7,362.34	6,953.29	33.93	34.79	99.33	1,181.76	545.08	524.35	458.89	65.46	8.010		
7,150.00	6,879.88	7,307.37	6,946.92	34.33	34.19	96.17	1,180.05	490.53	520.15	453.68	66.48	7.825		
7,200.00	6,900.93	7,255.77	6,936.75	34.76	33.67	93.08	1,177.74	440.01	517.03	449.68	67.35	7.676		
7,250.00	6,918.36	7,207.01	6,923.45	35.23	33.21	90.06	1,174.94	393.19	515.03	446.96	68.07	7.566		
7,300.00	6,932.05	7,160.66	6,907.57	35.74	32.82	87.10	1,171.75	349.77	514.16	445.55	68.62	7.493		
7,314.54	6,935.32	7,147.58	6,902.53	35.90	32.71	86.26	1,170.76	337.74	514.12	445.37	68.75	7.478		
7,350.00	6,941.94	7,116.36	6,889.52	36.29	32.48	84.21	1,168.23	309.49	514.38	445.37	69.01	7.454		
7,400.00	6,947.94	7,073.83	6,869.63	36.87	32.18	81.39	1,164.43	272.10	515.62	446.36	69.26	7.444 SF		
7,450.00	6,950.04	7,032.82	6,848.15	37.47	31.94	78.64	1,160.39	237.40	517.79	448.37	69.41	7.460		
7,458.56	6,950.00	7,025.93	6,844.34	37.58	31.91	78.18	1,159.68	231.71	518.24	448.81	69.43	7.464		
7,500.00	6,949.56	6,993.84	6,825.74	38.11	31.83	76.15	1,156.23	205.78	521.08	451.60	69.48	7.500		
7,600.00	6,948.48	6,925.35	6,781.89	39.51	31.67	71.42	1,148.21	153.84	533.57	464.17	69.40	7.688		
7,700.00	6,947.40	6,868.18	6,741.24	41.06	31.51	67.13	1,140.88	114.35	555.55	486.47	69.08	8.042		
7,800.00	6,946.32	6,820.46	6,704.73	42.74	31.37	63.42	1,134.36	84.32	587.82	519.19	68.64	8.564		
7,900.00	6,945.24	6,780.44	6,672.47	44.55	31.25	60.25	1,128.63	61.35	630.12	561.94	68.17	9.243		
8,000.00	6,944.16	6,750.00	6,647.02	46.46	31.15	57.83	1,124.14	45.28	681.48	613.63	67.85	10.044		
8,100.00	6,943.08	6,717.89	6,619.37	48.47	31.03	55.30	1,119.29	29.68	740.62	673.18	67.44	10.983		
8,200.00	6,942.01	6,700.00	6,603.65	50.55	30.97	53.91	1,116.54	21.61	806.32	739.00	67.32	11.977		
8,300.00	6,940.93	6,671.86	6,578.48	52.71	30.86	51.75	1,112.14	9.84	877.25	810.29	66.97	13.100		
8,400.00	6,939.85	6,650.00	6,558.58	54.93	30.78	50.10	1,108.68	1.48	952.60	885.85	66.75	14.272		
8,500.00	6,938.77	6,636.91	6,546.53	57.20	30.73	49.12	1,106.59	-3.20	1,031.46	964.78	66.68	15.469		
8,600.00	6,937.69	6,622.47	6,533.13	59.53	30.67	48.06	1,104.27	-8.06	1,113.24	1,046.66	66.58	16.721		
8,700.00	6,936.61	6,600.00	6,512.08	61.89	30.58	46.45	1,100.63	-15.01	1,197.49	1,131.13	66.36	18.047		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 25N-3B-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	6,600.00	6,512.08	64.30	30.58	46.45	1,100.63	-15.01	1,283.51	1,217.07	66.44	19.318		
8,900.00	6,934.46	6,600.00	6,512.08	66.74	30.58	46.45	1,100.63	-15.01	1,371.43	1,304.94	66.49	20.627		
9,000.00	6,933.38	6,578.46	6,491.68	69.21	30.49	44.94	1,097.11	-20.96	1,460.40	1,394.11	66.29	22.029		
9,100.00	6,932.30	6,569.98	6,483.60	71.71	30.45	44.35	1,095.72	-23.11	1,550.71	1,484.47	66.24	23.409		
9,200.00	6,931.22	6,550.00	6,464.44	74.23	30.37	43.00	1,092.43	-27.74	1,642.16	1,576.08	66.09	24.849		
9,300.00	6,930.14	6,550.00	6,464.44	76.78	30.37	43.00	1,092.43	-27.74	1,734.19	1,668.07	66.11	26.231		
9,400.00	6,929.06	6,550.00	6,464.44	79.34	30.37	43.00	1,092.43	-27.74	1,827.05	1,760.92	66.13	27.629		
9,500.00	6,927.99	6,550.00	6,464.44	81.93	30.37	43.00	1,092.43	-27.74	1,920.62	1,854.49	66.14	29.040		
9,600.00	6,926.91	6,550.00	6,464.44	84.53	30.37	43.00	1,092.43	-27.74	2,014.82	1,948.68	66.14	30.463		
9,700.00	6,925.83	6,532.08	6,447.15	87.14	30.29	41.82	1,089.46	-31.37	2,109.23	2,043.20	66.03	31.944		
9,800.00	6,924.75	6,527.32	6,442.54	89.77	30.27	41.51	1,088.68	-32.26	2,204.24	2,138.23	66.00	33.395		
9,900.00	6,923.67	6,522.89	6,438.24	92.41	30.25	41.23	1,087.94	-33.05	2,299.63	2,233.64	65.98	34.851		
10,000.00	6,922.59	6,518.75	6,434.22	95.07	30.23	40.96	1,087.25	-33.76	2,395.36	2,329.39	65.97	36.312		
10,100.00	6,921.51	6,500.00	6,415.96	97.73	30.15	39.79	1,084.13	-36.64	2,491.61	2,425.74	65.87	37.824		
10,200.00	6,920.44	6,500.00	6,415.96	100.40	30.15	39.79	1,084.13	-36.64	2,587.83	2,521.95	65.88	39.279		
10,300.00	6,919.36	6,500.00	6,415.96	103.08	30.15	39.79	1,084.13	-36.64	2,684.33	2,618.44	65.89	40.738		
10,400.00	6,918.28	6,500.00	6,415.96	105.77	30.15	39.79	1,084.13	-36.64	2,781.07	2,715.17	65.90	42.200		
10,500.00	6,917.20	6,500.00	6,415.96	108.47	30.15	39.79	1,084.13	-36.64	2,878.04	2,812.13	65.91	43.665		
10,600.00	6,916.12	6,500.00	6,415.96	111.18	30.15	39.79	1,084.13	-36.64	2,975.21	2,909.28	65.92	45.132		
10,700.00	6,915.04	6,500.00	6,415.96	113.89	30.15	39.79	1,084.13	-36.64	3,072.55	3,006.62	65.93	46.601		
10,800.00	6,913.96	6,500.00	6,415.96	116.61	30.15	39.79	1,084.13	-36.64	3,170.07	3,104.12	65.94	48.072		
10,900.00	6,912.89	6,500.00	6,415.96	119.33	30.15	39.79	1,084.13	-36.64	3,267.73	3,201.78	65.96	49.543		
11,000.00	6,911.81	6,500.00	6,415.96	122.06	30.15	39.79	1,084.13	-36.64	3,365.53	3,299.56	65.97	51.015		
11,100.00	6,910.73	6,500.00	6,415.96	124.79	30.15	39.79	1,084.13	-36.64	3,463.46	3,397.47	65.99	52.487		
11,200.00	6,909.65	6,500.00	6,415.96	127.53	30.15	39.79	1,084.13	-36.64	3,561.50	3,495.50	66.00	53.959		
11,300.00	6,908.57	6,500.00	6,415.96	130.27	30.15	39.79	1,084.13	-36.64	3,659.65	3,593.63	66.02	55.430		
11,400.00	6,907.49	6,500.00	6,415.96	133.02	30.15	39.79	1,084.13	-36.64	3,757.90	3,691.86	66.04	56.902		
11,500.00	6,906.41	6,478.76	6,395.18	135.77	30.06	38.49	1,080.59	-39.25	3,855.83	3,789.84	65.99	58.433		
11,600.00	6,905.34	6,477.02	6,393.48	138.52	30.05	38.39	1,080.30	-39.43	3,954.18	3,888.17	66.01	59.907		
11,700.00	6,904.26	6,475.36	6,391.85	141.28	30.04	38.29	1,080.02	-39.60	4,052.61	3,986.58	66.02	61.381		
11,800.00	6,903.18	6,473.77	6,390.29	144.04	30.03	38.20	1,079.76	-39.76	4,151.10	4,085.06	66.05	62.852		
11,900.00	6,902.10	6,472.24	6,388.79	146.80	30.03	38.11	1,079.50	-39.91	4,249.67	4,183.60	66.07	64.323		
12,000.00	6,901.02	6,450.00	6,366.93	149.57	29.93	36.82	1,075.79	-41.65	4,348.68	4,282.65	66.02	65.867		
12,100.00	6,899.94	6,450.00	6,366.93	152.34	29.93	36.82	1,075.79	-41.65	4,447.31	4,381.25	66.05	67.329		
12,200.00	6,898.87	6,450.00	6,366.93	155.11	29.93	36.82	1,075.79	-41.65	4,546.00	4,479.91	66.09	68.789		
12,300.00	6,897.79	6,450.00	6,366.93	157.89	29.93	36.82	1,075.79	-41.65	4,644.75	4,578.63	66.12	70.247		
12,400.00	6,896.71	6,450.00	6,366.93	160.66	29.93	36.82	1,075.79	-41.65	4,743.55	4,677.39	66.15	71.704		
12,500.00	6,895.63	6,450.00	6,366.93	163.44	29.93	36.82	1,075.79	-41.65	4,842.40	4,776.21	66.19	73.158		
12,600.00	6,894.55	6,450.00	6,366.93	166.22	29.93	36.82	1,075.79	-41.65	4,941.29	4,875.06	66.23	74.610		
12,700.00	6,893.47	6,450.00	6,366.93	169.00	29.93	36.82	1,075.79	-41.65	5,040.23	4,973.97	66.27	76.060		
12,800.00	6,892.39	6,450.00	6,366.93	171.79	29.93	36.82	1,075.79	-41.65	5,139.21	5,072.91	66.31	77.507		
12,900.00	6,891.32	6,450.00	6,366.93	174.57	29.93	36.82	1,075.79	-41.65	5,238.23	5,171.88	66.35	78.952		
13,000.00	6,890.24	6,450.00	6,366.93	177.36	29.93	36.82	1,075.79	-41.65	5,337.29	5,270.90	66.39	80.394		
13,100.00	6,889.16	6,450.00	6,366.93	180.15	29.93	36.82	1,075.79	-41.65	5,436.38	5,369.95	66.43	81.833		
13,200.00	6,888.08	6,450.00	6,366.93	182.94	29.93	36.82	1,075.79	-41.65	5,535.50	5,469.02	66.48	83.270		
13,300.00	6,887.00	6,450.00	6,366.93	185.74	29.93	36.82	1,075.79	-41.65	5,634.65	5,568.13	66.52	84.703		
13,400.00	6,885.92	6,450.00	6,366.93	188.53	29.93	36.82	1,075.79	-41.65	5,733.84	5,667.27	66.57	86.134		
13,500.00	6,884.84	6,450.00	6,366.93	191.32	29.93	36.82	1,075.79	-41.65	5,833.05	5,766.43	66.62	87.561		
13,600.00	6,883.77	6,450.00	6,366.93	194.12	29.93	36.82	1,075.79	-41.65	5,932.29	5,865.62	66.67	88.986		
13,700.00	6,882.69	6,450.00	6,366.93	196.92	29.93	36.82	1,075.79	-41.65	6,031.55	5,964.83	66.72	90.407		
13,800.00	6,881.61	6,450.00	6,366.93	199.72	29.93	36.82	1,075.79	-41.65	6,130.84	6,064.07	66.77	91.825		
13,900.00	6,880.53	6,450.00	6,366.93	202.52	29.93	36.82	1,075.79	-41.65	6,230.15	6,163.33	66.82	93.239		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 25N-3B-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,879.45	6,450.00	6,366.93	205.32	29.93	36.82	1,075.79	-41.65	6,329.48	6,262.61	66.87	94.651		
14,100.00	6,878.37	6,450.00	6,366.93	208.12	29.93	36.82	1,075.79	-41.65	6,428.83	6,361.90	66.93	96.058		
14,200.00	6,877.29	6,450.00	6,366.93	210.92	29.93	36.82	1,075.79	-41.65	6,528.20	6,461.22	66.98	97.463		
14,300.00	6,876.22	6,450.00	6,366.93	213.73	29.93	36.82	1,075.79	-41.65	6,627.59	6,560.55	67.04	98.863		
14,400.00	6,875.14	6,450.00	6,366.93	216.53	29.93	36.82	1,075.79	-41.65	6,727.00	6,659.91	67.10	100.260		
14,500.00	6,874.06	6,450.00	6,366.93	219.34	29.93	36.82	1,075.79	-41.65	6,826.43	6,759.27	67.15	101.654		
14,600.00	6,872.98	6,450.00	6,366.93	222.15	29.93	36.82	1,075.79	-41.65	6,925.87	6,858.66	67.21	103.043		
14,700.00	6,871.90	6,450.00	6,366.93	224.95	29.93	36.82	1,075.79	-41.65	7,025.33	6,958.05	67.27	104.429		
14,800.00	6,870.82	6,450.00	6,366.93	227.76	29.93	36.82	1,075.79	-41.65	7,124.80	7,057.47	67.33	105.811		
14,900.00	6,869.75	6,450.00	6,366.93	230.57	29.93	36.82	1,075.79	-41.65	7,224.29	7,156.89	67.40	107.189		
15,000.00	6,868.67	6,450.00	6,366.93	233.38	29.93	36.82	1,075.79	-41.65	7,323.79	7,256.33	67.46	108.564		
15,100.00	6,867.59	6,450.00	6,366.93	236.19	29.93	36.82	1,075.79	-41.65	7,423.31	7,355.78	67.53	109.934		
15,200.00	6,866.51	6,450.00	6,366.93	239.00	29.93	36.82	1,075.79	-41.65	7,522.84	7,455.25	67.59	111.301		
15,300.00	6,865.43	6,450.00	6,366.93	241.81	29.93	36.82	1,075.79	-41.65	7,622.38	7,554.72	67.66	112.663		
15,400.00	6,864.35	6,450.00	6,366.93	244.63	29.93	36.82	1,075.79	-41.65	7,721.93	7,654.21	67.72	114.021		
15,500.00	6,863.27	6,450.00	6,366.93	247.44	29.93	36.82	1,075.79	-41.65	7,821.49	7,753.70	67.79	115.375		
15,600.00	6,862.20	6,450.00	6,366.93	250.25	29.93	36.82	1,075.79	-41.65	7,921.07	7,853.21	67.86	116.726		
15,618.10	6,862.00	6,450.00	6,366.93	250.76	29.93	36.82	1,075.79	-41.65	7,939.09	7,871.21	67.87	116.969		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 28C-3-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.46	-149.37	-14.48	150.07					
100.00	100.00	100.00	100.00	3.28	3.28	-174.46	-149.37	-14.48	150.07	143.50	6.57	22.843		
200.00	200.00	200.00	200.00	3.34	3.34	-174.46	-149.37	-14.48	150.07	143.39	6.67	22.485	CC, ES	
300.00	299.98	294.97	294.96	3.44	3.43	134.14	-150.90	-14.85	152.92	146.03	6.89	22.199	SF	
400.00	399.84	389.37	389.23	3.61	3.57	135.50	-155.44	-15.97	161.53	154.32	7.21	22.391		
500.00	499.45	482.61	482.15	3.81	3.76	137.46	-162.89	-17.80	176.04	168.41	7.64	23.057		
600.00	598.70	574.17	573.11	4.06	3.97	139.67	-173.06	-20.31	196.57	188.44	8.13	24.178		
700.00	697.47	663.54	661.52	4.35	4.21	141.85	-185.70	-23.42	223.16	214.48	8.68	25.716		
800.00	795.62	750.29	746.91	4.66	4.47	143.83	-200.53	-27.07	255.73	246.47	9.26	27.615		
900.00	893.06	834.01	828.85	5.01	4.76	145.53	-217.21	-31.17	294.12	284.26	9.86	29.827		
961.44	952.51	883.81	877.34	5.25	4.94	146.41	-228.24	-33.88	320.49	310.26	10.24	31.313		
1,000.00	989.71	914.49	907.11	5.40	5.06	147.11	-235.44	-35.66	337.90	327.43	10.47	32.269		
1,100.00	1,086.20	992.55	982.48	5.81	5.37	148.57	-255.15	-40.51	384.89	373.82	11.07	34.775		
1,200.00	1,182.69	1,068.42	1,055.18	6.24	5.69	149.66	-276.20	-45.69	434.38	422.71	11.67	37.236		
1,300.00	1,279.18	1,142.09	1,125.20	6.69	6.02	150.48	-298.43	-51.16	486.19	473.93	12.26	39.660		
1,400.00	1,375.67	1,213.55	1,192.54	7.15	6.36	151.10	-321.66	-56.87	540.18	527.33	12.84	42.055		
1,500.00	1,472.15	1,307.46	1,266.46	7.62	6.83	151.63	-348.70	-63.53	595.75	582.19	13.56	43.944		
1,600.00	1,568.64	1,375.49	1,344.06	8.10	7.18	152.09	-377.17	-70.53	651.44	637.25	14.19	45.906		
1,700.00	1,665.13	1,458.44	1,421.65	8.59	7.61	152.48	-405.64	-77.54	707.16	692.25	14.91	47.437		
1,800.00	1,761.62	1,541.39	1,499.24	9.08	8.06	152.81	-434.11	-84.55	762.90	747.26	15.64	48.779		
1,900.00	1,858.11	1,624.34	1,576.84	9.58	8.51	153.10	-462.59	-91.55	818.65	802.27	16.39	49.958		
2,000.00	1,954.60	1,707.29	1,654.43	10.08	8.97	153.35	-491.06	-98.56	874.42	857.27	17.15	50.999		
2,100.00	2,051.09	1,809.76	1,732.03	10.59	9.55	153.57	-519.53	-105.56	930.20	912.19	18.01	51.650		
2,200.00	2,147.57	1,873.19	1,809.62	11.09	9.90	153.77	-548.00	-112.57	985.98	967.29	18.69	52.741		
2,300.00	2,244.06	1,956.14	1,887.22	11.61	10.38	153.94	-576.47	-119.58	1,041.77	1,022.29	19.48	53.474		
2,400.00	2,340.55	2,039.09	1,964.81	12.12	10.86	154.10	-604.94	-126.58	1,097.57	1,077.30	20.28	54.130		
2,500.00	2,437.04	2,122.04	2,042.41	12.64	11.34	154.24	-633.41	-133.59	1,153.38	1,132.30	21.08	54.721		
2,600.00	2,533.53	2,204.99	2,120.00	13.15	11.82	154.37	-661.89	-140.59	1,209.18	1,187.30	21.88	55.254		
2,700.00	2,630.02	2,287.94	2,197.60	13.67	12.30	154.49	-690.36	-147.60	1,264.99	1,242.30	22.70	55.737		
2,800.00	2,726.50	2,370.89	2,275.19	14.19	12.79	154.59	-718.83	-154.61	1,320.81	1,297.30	23.51	56.175		
2,900.00	2,822.99	2,453.84	2,352.79	14.72	13.28	154.69	-747.30	-161.61	1,376.63	1,352.29	24.33	56.575		
3,000.00	2,919.48	2,536.79	2,430.38	15.24	13.77	154.78	-775.77	-168.62	1,432.45	1,407.29	25.16	56.941		
3,100.00	3,015.97	2,619.74	2,507.98	15.76	14.26	154.87	-804.24	-175.62	1,488.27	1,462.29	25.98	57.275		
3,200.00	3,112.46	2,702.69	2,585.57	16.29	14.75	154.95	-832.71	-182.63	1,544.09	1,517.28	26.81	57.583		
3,300.00	3,208.95	2,785.64	2,663.17	16.81	15.25	155.02	-861.19	-189.64	1,599.92	1,572.27	27.65	57.867		
3,400.00	3,305.44	2,868.59	2,740.76	17.34	15.75	155.09	-889.66	-196.64	1,655.75	1,627.26	28.48	58.128		
3,500.00	3,401.92	2,951.54	2,818.36	17.87	16.24	155.15	-918.13	-203.65	1,711.58	1,682.26	29.32	58.370		
3,600.00	3,498.41	3,034.49	2,895.95	18.40	16.74	155.21	-946.60	-210.66	1,767.41	1,737.25	30.16	58.595		
3,700.00	3,594.90	3,117.44	2,973.55	18.93	17.24	155.26	-975.07	-217.66	1,823.24	1,792.24	31.01	58.804		
3,800.00	3,691.39	3,200.39	3,051.14	19.46	17.74	155.32	-1,003.54	-224.67	1,879.08	1,847.23	31.85	58.998		
3,900.00	3,787.88	3,283.34	3,128.73	19.99	18.24	155.37	-1,032.01	-231.67	1,934.91	1,902.21	32.70	59.179		
4,000.00	3,884.37	3,366.29	3,206.33	20.52	18.74	155.41	-1,060.48	-238.68	1,990.75	1,957.20	33.54	59.348		
4,100.00	3,980.85	3,449.24	3,283.92	21.05	19.24	155.46	-1,088.96	-245.69	2,046.58	2,012.19	34.39	59.506		
4,200.00	4,077.34	3,532.19	3,361.52	21.58	19.74	155.50	-1,117.43	-252.69	2,102.42	2,067.18	35.24	59.655		
4,300.00	4,173.83	3,615.14	3,439.11	22.11	20.24	155.54	-1,145.90	-259.70	2,158.26	2,122.16	36.09	59.794		
4,390.25	4,260.91	3,757.06	3,572.37	22.59	21.09	155.61	-1,193.31	-271.37	2,208.30	2,170.73	37.56	58.787		
4,400.00	4,270.32	3,789.30	3,602.93	22.64	21.28	155.69	-1,203.29	-273.82	2,213.44	2,175.55	37.89	58.417		
4,500.00	4,367.33	4,500.00	3,876.93	23.16	24.99	156.35	-1,276.26	-291.78	2,258.95	2,216.42	42.53	53.111		
4,600.00	4,465.13	4,550.76	4,349.11	23.65	24.93	157.20	-1,339.33	-307.30	2,289.77	2,246.05	43.73	52.366		
4,700.00	4,563.60	4,765.32	4,563.60	24.12	25.64	157.68	-1,343.19	-308.25	2,306.79	2,261.86	44.93	51.341		
4,800.00	4,662.61	4,864.33	4,662.61	24.56	25.93	157.91	-1,343.19	-308.25	2,319.75	2,274.05	45.70	50.758		
4,900.00	4,762.05	4,963.77	4,762.05	24.98	26.23	158.08	-1,343.19	-308.25	2,329.50	2,283.04	46.46	50.135		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 28C-3-L - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	5,063.52	4,861.80	25.38	26.54	158.20	-1,343.19	-308.25	2,336.03	2,288.82	47.22	49.474			
5,100.00	4,961.73	5,163.45	4,961.73	25.76	26.84	158.25	-1,343.19	-308.25	2,339.33	2,291.37	47.96	48.776			
5,151.69	5,013.42	5,215.14	5,013.42	25.95	27.01	-149.85	-1,343.19	-308.25	2,339.76	2,291.42	48.34	48.403			
5,200.00	5,061.73	5,263.45	5,061.73	26.13	27.16	-149.85	-1,343.19	-308.25	2,339.76	2,291.07	48.69	48.053			
5,300.00	5,161.73	5,363.45	5,161.73	26.49	27.47	-149.85	-1,343.19	-308.25	2,339.76	2,290.34	49.42	47.341			
5,400.00	5,261.73	5,463.45	5,261.73	26.86	27.79	-149.85	-1,343.19	-308.25	2,339.76	2,289.60	50.16	46.646			
5,500.00	5,361.73	5,563.45	5,361.73	27.23	28.11	-149.85	-1,343.19	-308.25	2,339.76	2,288.86	50.90	45.966			
5,600.00	5,461.73	5,663.45	5,461.73	27.60	28.44	-149.85	-1,343.19	-308.25	2,339.76	2,288.12	51.65	45.303			
5,700.00	5,561.73	5,763.45	5,561.73	27.97	28.77	-149.85	-1,343.19	-308.25	2,339.76	2,287.37	52.40	44.655			
5,800.00	5,661.73	5,863.45	5,661.73	28.35	29.10	-149.85	-1,343.19	-308.25	2,339.76	2,286.61	53.15	44.022			
5,900.00	5,761.73	5,963.45	5,761.73	28.72	29.43	-149.85	-1,343.19	-308.25	2,339.76	2,285.86	53.91	43.403			
6,000.00	5,861.73	6,063.45	5,861.73	29.10	29.77	-149.85	-1,343.19	-308.25	2,339.76	2,285.09	54.67	42.799			
6,100.00	5,961.73	6,163.45	5,961.73	29.48	30.11	-149.85	-1,343.19	-308.25	2,339.76	2,284.33	55.43	42.209			
6,200.00	6,061.73	6,337.97	7,229.58	29.86	44.09	179.85	-1,339.40	872.23	2,332.78	2,270.06	62.72	37.193			
6,300.00	6,161.73	6,338.07	7,229.58	30.25	44.10	179.85	-1,339.40	872.34	2,284.36	2,219.96	64.40	35.471			
6,400.00	6,261.73	6,338.18	7,229.58	30.63	44.10	179.85	-1,339.40	872.45	2,239.36	2,173.30	66.07	33.896			
6,451.69	6,313.42	6,338.24	7,229.58	30.83	44.10	179.84	-1,339.40	872.50	2,217.51	2,150.59	66.92	33.139			
6,500.00	6,361.68	6,336.46	7,229.58	31.01	44.07	-89.57	-1,339.40	870.72	2,197.94	2,130.28	67.66	32.485			
6,550.00	6,411.34	6,330.77	7,229.57	31.20	43.96	-91.30	-1,339.42	865.04	2,178.60	2,110.26	68.34	31.879			
6,600.00	6,460.39	6,321.21	7,229.56	31.38	43.77	-92.80	-1,339.45	855.48	2,160.29	2,091.37	68.93	31.342			
6,650.00	6,508.54	6,307.83	7,229.55	31.58	43.51	-94.08	-1,339.50	842.10	2,143.12	2,073.70	69.42	30.872			
6,700.00	6,555.48	6,309.28	7,229.53	31.78	43.54	-95.15	-1,339.55	824.98	2,127.13	2,056.96	70.17	30.315			
6,750.00	6,600.93	6,269.98	7,229.51	31.98	42.81	-96.00	-1,339.62	804.24	2,112.37	2,042.22	70.15	30.113			
6,800.00	6,644.61	6,245.73	7,229.48	32.20	42.37	-96.67	-1,339.69	780.00	2,098.85	2,028.47	70.38	29.821			
6,850.00	6,686.25	6,218.14	7,229.45	32.44	41.86	-97.16	-1,339.78	752.41	2,086.56	2,016.04	70.53	29.585			
6,900.00	6,725.58	6,187.36	7,229.42	32.68	41.31	-97.50	-1,339.88	721.63	2,075.47	2,004.87	70.61	29.394			
6,950.00	6,762.38	6,153.60	7,229.38	32.96	40.74	-97.71	-1,339.99	687.86	2,065.53	1,994.89	70.64	29.240			
7,000.00	6,796.41	6,117.04	7,229.35	33.25	40.12	-97.83	-1,340.11	651.31	2,056.68	1,986.06	70.61	29.126			
7,050.00	6,827.46	6,077.94	7,229.30	33.58	39.48	-97.86	-1,340.23	612.20	2,048.83	1,978.27	70.56	29.036			
7,100.00	6,855.34	6,036.51	7,229.26	33.93	38.84	-97.84	-1,340.37	570.78	2,041.92	1,971.42	70.50	28.965			
7,150.00	6,879.88	6,006.98	7,229.21	34.33	38.38	-97.79	-1,340.51	527.29	2,035.86	1,965.24	70.62	28.829			
7,200.00	6,900.93	7,947.74	7,229.16	34.76	37.56	-97.74	-1,340.65	482.01	2,030.56	1,960.20	70.36	28.859			
7,250.00	6,918.36	7,900.94	7,229.11	35.23	36.93	-97.70	-1,340.80	435.21	2,025.97	1,955.67	70.30	28.818			
7,300.00	6,932.05	7,852.92	7,229.06	35.74	36.37	-97.69	-1,340.96	387.19	2,022.02	1,951.70	70.32	28.755			
7,350.00	6,941.94	7,803.97	7,229.01	36.29	35.84	-97.72	-1,341.11	338.24	2,018.66	1,948.33	70.33	28.701			
7,400.00	6,947.94	7,723.83	7,225.13	36.87	35.18	-97.64	-1,341.37	258.24	2,015.56	1,945.51	70.05	28.774			
7,450.00	6,950.04	7,638.31	7,210.03	37.47	34.71	-97.43	-1,341.64	174.13	2,012.12	1,942.26	69.86	28.802			
7,458.56	6,950.00	7,624.05	7,206.42	37.58	34.66	-97.39	-1,341.68	160.34	2,011.50	1,941.64	69.85	28.797			
7,500.00	6,949.56	7,557.41	7,185.50	38.11	34.45	-96.82	-1,341.89	97.10	2,008.24	1,938.34	69.90	28.731			
7,600.00	6,948.48	7,417.56	7,120.85	39.51	34.14	-95.03	-1,342.28	-26.60	1,999.05	1,928.38	70.67	28.287			
7,700.00	6,947.40	7,308.70	7,052.74	41.06	33.91	-93.10	-1,342.56	-111.35	1,989.60	1,917.60	72.00	27.633			
7,800.00	6,946.32	7,226.06	6,991.95	42.74	33.71	-91.36	-1,342.73	-167.24	1,981.63	1,907.98	73.64	26.909			
7,900.00	6,945.24	7,163.15	6,941.10	44.55	33.54	-89.90	-1,342.85	-204.24	1,976.33	1,900.86	75.47	26.187			
7,997.07	6,944.19	7,115.80	6,900.56	46.41	33.40	-88.73	-1,342.93	-228.68	1,974.52	1,897.16	77.36	25.523			
8,000.00	6,944.16	7,114.54	6,899.46	46.46	33.40	-88.70	-1,342.93	-229.29	1,974.53	1,897.10	77.42	25.504			
8,100.00	6,943.08	7,076.26	6,865.39	48.47	33.28	-87.72	-1,342.99	-246.73	1,976.70	1,897.25	79.45	24.880			
8,200.00	6,942.01	7,045.55	6,837.34	50.55	33.18	-86.91	-1,343.03	-259.23	1,983.15	1,901.64	81.52	24.329			
8,300.00	6,940.93	7,020.46	6,814.00	52.71	33.10	-86.24	-1,343.06	-268.43	1,994.05	1,910.47	83.58	23.858			
8,400.00	6,939.85	7,000.00	6,794.71	54.93	33.03	-85.68	-1,343.08	-275.24	2,009.47	1,923.85	85.62	23.471			
8,500.00	6,938.77	6,982.14	6,777.70	57.20	32.97	-85.19	-1,343.10	-280.68	2,029.39	1,941.80	87.59	23.170			
8,600.00	6,937.69	6,967.23	6,763.38	59.53	32.92	-84.78	-1,343.11	-284.85	2,053.75	1,964.27	89.48	22.951			
8,700.00	6,936.61	6,950.00	6,746.73	61.89	32.86	-84.30	-1,343.13	-289.25	2,082.46	1,991.20	91.26	22.820			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 28C-3-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	6,950.00	6,746.73	64.30	32.86	-84.30	-1,343.13	-289.25	2,115.37	2,022.37	93.00	22.746		
8,900.00	6,934.46	6,933.42	6,730.59	66.74	32.81	-83.84	-1,343.14	-293.06	2,152.27	2,057.74	94.53	22.767		
9,000.00	6,933.38	6,924.77	6,722.13	69.21	32.78	-83.59	-1,343.14	-294.88	2,193.04	2,097.06	95.98	22.849		
9,100.00	6,932.30	6,917.07	6,714.58	71.71	32.75	-83.38	-1,343.15	-296.41	2,237.46	2,140.15	97.31	22.994		
9,200.00	6,931.22	6,900.00	6,697.79	74.23	32.69	-82.90	-1,343.16	-299.46	2,285.40	2,186.94	98.46	23.211		
9,300.00	6,930.14	6,900.00	6,697.79	76.78	32.69	-82.90	-1,343.16	-299.46	2,336.46	2,236.88	99.58	23.463		
9,400.00	6,929.06	6,900.00	6,697.79	79.34	32.69	-82.90	-1,343.16	-299.46	2,390.62	2,290.03	100.59	23.767		
9,500.00	6,927.99	6,900.00	6,697.79	81.93	32.69	-82.90	-1,343.16	-299.46	2,447.66	2,346.18	101.48	24.119		
9,600.00	6,926.91	6,900.00	6,697.79	84.53	32.69	-82.90	-1,343.16	-299.46	2,507.40	2,405.12	102.28	24.514		
9,700.00	6,925.83	6,900.00	6,697.79	87.14	32.69	-82.90	-1,343.16	-299.46	2,569.64	2,466.66	102.99	24.951		
9,800.00	6,924.75	6,880.38	6,678.40	89.77	32.62	-82.34	-1,343.17	-302.41	2,633.93	2,530.40	103.53	25.440		
9,900.00	6,923.67	6,876.76	6,674.80	92.41	32.61	-82.24	-1,343.17	-302.89	2,700.54	2,596.47	104.07	25.950		
10,000.00	6,922.59	6,873.40	6,671.48	95.07	32.59	-82.15	-1,343.17	-303.31	2,769.14	2,664.60	104.54	26.490		
10,100.00	6,921.51	6,870.29	6,668.39	97.73	32.58	-82.06	-1,343.17	-303.69	2,839.59	2,734.65	104.94	27.059		
10,200.00	6,920.44	6,850.00	6,648.21	100.40	32.51	-81.48	-1,343.18	-305.79	2,911.99	2,806.77	105.22	27.675		
10,300.00	6,919.36	6,850.00	6,648.21	103.08	32.51	-81.48	-1,343.18	-305.79	2,985.69	2,880.15	105.54	28.290		
10,400.00	6,918.28	6,850.00	6,648.21	105.77	32.51	-81.48	-1,343.18	-305.79	3,060.87	2,955.06	105.81	28.928		
10,500.00	6,917.20	6,850.00	6,648.21	108.47	32.51	-81.48	-1,343.18	-305.79	3,137.45	3,031.41	106.04	29.587		
10,600.00	6,916.12	6,850.00	6,648.21	111.18	32.51	-81.48	-1,343.18	-305.79	3,215.31	3,109.07	106.24	30.265		
10,700.00	6,915.04	6,850.00	6,648.21	113.89	32.51	-81.48	-1,343.18	-305.79	3,294.37	3,187.96	106.40	30.961		
10,800.00	6,913.96	6,850.00	6,648.21	116.61	32.51	-81.48	-1,343.18	-305.79	3,374.53	3,267.99	106.54	31.673		
10,900.00	6,912.89	6,850.00	6,648.21	119.33	32.51	-81.48	-1,343.18	-305.79	3,455.74	3,349.08	106.66	32.401		
11,000.00	6,911.81	6,850.00	6,648.21	122.06	32.51	-81.48	-1,343.18	-305.79	3,537.90	3,431.15	106.75	33.143		
11,100.00	6,910.73	6,850.00	6,648.21	124.79	32.51	-81.48	-1,343.18	-305.79	3,620.96	3,514.14	106.82	33.898		
11,200.00	6,909.65	6,850.00	6,648.21	127.53	32.51	-81.48	-1,343.18	-305.79	3,704.86	3,597.99	106.88	34.665		
11,300.00	6,908.57	6,850.00	6,648.21	130.27	32.51	-81.48	-1,343.18	-305.79	3,789.54	3,682.62	106.92	35.443		
11,400.00	6,907.49	6,850.00	6,648.21	133.02	32.51	-81.48	-1,343.18	-305.79	3,874.95	3,768.01	106.95	36.232		
11,500.00	6,906.41	6,850.00	6,648.21	135.77	32.51	-81.48	-1,343.18	-305.79	3,961.05	3,854.08	106.97	37.031		
11,600.00	6,905.34	6,850.00	6,648.21	138.52	32.51	-81.48	-1,343.18	-305.79	4,047.78	3,940.81	106.97	37.839		
11,700.00	6,904.26	6,850.00	6,648.21	141.28	32.51	-81.48	-1,343.18	-305.79	4,135.11	4,028.14	106.97	38.655		
11,800.00	6,903.18	6,850.00	6,648.21	144.04	32.51	-81.48	-1,343.18	-305.79	4,223.01	4,116.04	106.97	39.479		
11,900.00	6,902.10	6,850.00	6,648.21	146.80	32.51	-81.48	-1,343.18	-305.79	4,311.43	4,204.48	106.95	40.311		
12,000.00	6,901.02	6,850.00	6,648.21	149.57	32.51	-81.48	-1,343.18	-305.79	4,400.35	4,293.41	106.93	41.150		
12,100.00	6,899.94	6,850.00	6,648.21	152.34	32.51	-81.48	-1,343.18	-305.79	4,489.73	4,382.82	106.91	41.995		
12,200.00	6,898.87	6,850.00	6,648.21	155.11	32.51	-81.48	-1,343.18	-305.79	4,579.56	4,472.67	106.88	42.846		
12,300.00	6,897.79	6,850.00	6,648.21	157.89	32.51	-81.48	-1,343.18	-305.79	4,669.79	4,562.94	106.85	43.703		
12,400.00	6,896.71	6,850.00	6,648.21	160.66	32.51	-81.48	-1,343.18	-305.79	4,760.42	4,653.60	106.82	44.565		
12,500.00	6,895.63	6,850.00	6,648.21	163.44	32.51	-81.48	-1,343.18	-305.79	4,851.41	4,744.63	106.78	45.432		
12,600.00	6,894.55	6,850.00	6,648.21	166.22	32.51	-81.48	-1,343.18	-305.79	4,942.76	4,836.01	106.75	46.304		
12,700.00	6,893.47	6,850.00	6,648.21	169.00	32.51	-81.48	-1,343.18	-305.79	5,034.43	4,927.72	106.71	47.180		
12,800.00	6,892.39	6,850.00	6,648.21	171.79	32.51	-81.48	-1,343.18	-305.79	5,126.41	5,019.75	106.67	48.060		
12,900.00	6,891.32	6,850.00	6,648.21	174.57	32.51	-81.48	-1,343.18	-305.79	5,218.69	5,112.07	106.63	48.943		
13,000.00	6,890.24	6,827.72	6,625.99	177.36	32.43	-80.85	-1,343.18	-307.36	5,310.84	5,204.31	106.52	49.856		
13,100.00	6,889.16	6,827.02	6,625.28	180.15	32.43	-80.83	-1,343.18	-307.40	5,403.63	5,297.15	106.48	50.748		
13,200.00	6,888.08	6,826.34	6,624.60	182.94	32.42	-80.81	-1,343.18	-307.43	5,496.68	5,390.24	106.44	51.642		
13,300.00	6,887.00	6,825.68	6,623.95	185.74	32.42	-80.80	-1,343.18	-307.46	5,589.97	5,483.58	106.39	52.540		
13,400.00	6,885.92	6,825.05	6,623.31	188.53	32.42	-80.78	-1,343.18	-307.49	5,683.49	5,577.13	106.35	53.440		
13,500.00	6,884.84	6,824.43	6,622.70	191.32	32.42	-80.76	-1,343.18	-307.52	5,777.22	5,670.91	106.31	54.343		
13,600.00	6,883.77	6,823.84	6,622.10	194.12	32.42	-80.74	-1,343.18	-307.55	5,871.16	5,764.89	106.27	55.248		
13,700.00	6,882.69	6,823.26	6,621.53	196.92	32.41	-80.73	-1,343.18	-307.58	5,965.29	5,859.06	106.23	56.156		
13,800.00	6,881.61	6,822.70	6,620.97	199.72	32.41	-80.71	-1,343.18	-307.60	6,059.61	5,953.42	106.19	57.065		
13,900.00	6,880.53	6,822.16	6,620.43	202.52	32.41	-80.70	-1,343.19	-307.63	6,154.11	6,047.97	106.15	57.976		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 28C-3-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,879.45	6,800.00	6,598.28	205.32	32.33	-80.07	-1,343.19	-308.22	6,249.18	6,143.13	106.05	58.929		
14,100.00	6,878.37	6,800.00	6,598.28	208.12	32.33	-80.07	-1,343.19	-308.22	6,343.99	6,237.98	106.01	59.843		
14,200.00	6,877.29	6,800.00	6,598.28	210.92	32.33	-80.07	-1,343.19	-308.22	6,438.97	6,332.99	105.98	60.759		
14,300.00	6,876.22	6,800.00	6,598.28	213.73	32.33	-80.07	-1,343.19	-308.22	6,534.09	6,428.15	105.94	61.676		
14,400.00	6,875.14	6,800.00	6,598.28	216.53	32.33	-80.07	-1,343.19	-308.22	6,629.36	6,523.45	105.91	62.594		
14,500.00	6,874.06	6,800.00	6,598.28	219.34	32.33	-80.07	-1,343.19	-308.22	6,724.76	6,618.88	105.88	63.513		
14,600.00	6,872.98	6,800.00	6,598.28	222.15	32.33	-80.07	-1,343.19	-308.22	6,820.30	6,714.45	105.85	64.434		
14,700.00	6,871.90	6,800.00	6,598.28	224.95	32.33	-80.07	-1,343.19	-308.22	6,915.96	6,810.14	105.82	65.355		
14,800.00	6,870.82	6,800.00	6,598.28	227.76	32.33	-80.07	-1,343.19	-308.22	7,011.74	6,905.95	105.79	66.278		
14,900.00	6,869.75	6,800.00	6,598.28	230.57	32.33	-80.07	-1,343.19	-308.22	7,107.64	7,001.87	105.77	67.201		
15,000.00	6,868.67	6,800.00	6,598.28	233.38	32.33	-80.07	-1,343.19	-308.22	7,203.65	7,097.91	105.74	68.125		
15,100.00	6,867.59	6,800.00	6,598.28	236.19	32.33	-80.07	-1,343.19	-308.22	7,299.77	7,194.05	105.72	69.050		
15,200.00	6,866.51	6,800.00	6,598.28	239.00	32.33	-80.07	-1,343.19	-308.22	7,395.99	7,290.30	105.69	69.975		
15,300.00	6,865.43	6,800.00	6,598.28	241.81	32.33	-80.07	-1,343.19	-308.22	7,492.31	7,386.64	105.67	70.901		
15,400.00	6,864.35	6,800.00	6,598.28	244.63	32.33	-80.07	-1,343.19	-308.22	7,588.73	7,483.07	105.65	71.827		
15,500.00	6,863.27	6,800.00	6,598.28	247.44	32.33	-80.07	-1,343.19	-308.22	7,685.23	7,579.60	105.63	72.753		
15,600.00	6,862.20	6,800.00	6,598.28	250.25	32.33	-80.07	-1,343.19	-308.22	7,781.83	7,676.21	105.62	73.680		
15,618.10	6,862.00	6,800.00	6,598.28	250.76	32.33	-80.07	-1,343.19	-308.22	7,799.32	7,693.70	105.61	73.848		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 28N-3A-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.44	-134.43	-13.08	135.06					
100.00	100.00	100.00	100.00	3.28	3.28	-174.44	-134.43	-13.08	135.06	128.49	6.57	20.559		
200.00	200.00	200.00	200.00	3.34	3.34	-174.44	-134.43	-13.08	135.06	128.39	6.67	20.237	CC, ES	
300.00	299.98	295.48	295.46	3.44	3.43	134.26	-135.95	-13.55	137.91	131.02	6.89	20.018	SF	
400.00	399.84	390.37	390.23	3.61	3.58	135.88	-140.47	-14.93	146.53	139.31	7.22	20.307		
500.00	499.45	484.07	483.60	3.81	3.76	138.17	-147.89	-17.19	161.10	153.46	7.64	21.090		
600.00	598.70	576.03	574.95	4.06	3.97	140.71	-158.00	-20.27	181.78	173.64	8.14	22.343		
700.00	697.47	666.13	664.08	4.35	4.22	143.18	-170.62	-24.11	208.61	199.93	8.68	24.025		
800.00	795.62	760.52	757.25	4.66	4.50	145.59	-185.07	-28.52	239.93	230.67	9.25	25.929		
900.00	893.06	853.75	849.27	5.01	4.81	147.75	-199.34	-32.87	274.43	264.58	9.86	27.845		
961.44	952.51	910.40	905.19	5.25	5.01	148.95	-208.01	-35.51	297.22	286.97	10.25	28.988		
1,000.00	989.71	945.79	940.13	5.40	5.14	149.80	-213.43	-37.16	311.93	301.42	10.50	29.694		
1,100.00	1,086.20	1,037.59	1,030.75	5.81	5.49	151.67	-227.49	-41.45	350.30	339.13	11.17	31.366		
1,200.00	1,182.69	1,129.39	1,121.36	6.24	5.84	153.17	-241.54	-45.73	388.94	377.08	11.86	32.793		
1,300.00	1,279.18	1,221.19	1,211.98	6.69	6.21	154.40	-255.60	-50.01	427.76	415.18	12.58	34.011		
1,400.00	1,375.67	1,312.99	1,302.59	7.15	6.59	155.43	-269.65	-54.30	466.72	453.41	13.31	35.055		
1,500.00	1,472.15	1,404.78	1,393.21	7.62	6.97	156.30	-283.70	-58.58	505.79	491.73	14.07	35.953		
1,600.00	1,568.64	1,496.58	1,483.82	8.10	7.37	157.05	-297.76	-62.86	544.95	530.11	14.84	36.729		
1,700.00	1,665.13	1,588.38	1,574.44	8.59	7.76	157.70	-311.81	-67.15	584.18	568.56	15.62	37.403		
1,800.00	1,761.62	1,680.18	1,665.05	9.08	8.17	158.26	-325.87	-71.43	623.46	607.05	16.41	37.991		
1,900.00	1,858.11	1,771.98	1,755.67	9.58	8.57	158.76	-339.92	-75.71	662.78	645.57	17.21	38.507		
2,000.00	1,954.60	1,863.78	1,846.28	10.08	8.98	159.20	-353.98	-80.00	702.15	684.12	18.02	38.962		
2,100.00	2,051.09	1,955.57	1,936.90	10.59	9.40	159.60	-368.03	-84.28	741.54	722.70	18.84	39.365		
2,200.00	2,147.57	2,047.37	2,027.51	11.09	9.81	159.96	-382.09	-88.56	780.96	761.30	19.66	39.723		
2,300.00	2,244.06	2,139.17	2,118.13	11.61	10.23	160.28	-396.14	-92.85	820.41	799.92	20.49	40.043		
2,400.00	2,340.55	2,230.97	2,208.74	12.12	10.65	160.57	-410.19	-97.13	859.88	838.55	21.32	40.330		
2,500.00	2,437.04	2,322.77	2,299.36	12.64	11.07	160.84	-424.25	-101.41	899.36	877.20	22.16	40.589		
2,600.00	2,533.53	2,414.57	2,389.97	13.15	11.50	161.08	-438.30	-105.70	938.86	915.86	23.00	40.823		
2,700.00	2,630.02	2,506.36	2,480.59	13.67	11.92	161.31	-452.36	-109.98	978.37	954.53	23.84	41.035		
2,800.00	2,726.50	2,598.16	2,571.20	14.19	12.35	161.51	-466.41	-114.27	1,017.89	993.20	24.69	41.228		
2,900.00	2,822.99	2,689.96	2,661.82	14.72	12.78	161.70	-480.47	-118.55	1,057.42	1,031.88	25.54	41.404		
3,000.00	2,919.48	2,781.76	2,752.43	15.24	13.20	161.88	-494.52	-122.83	1,096.97	1,070.58	26.39	41.565		
3,100.00	3,015.97	2,873.56	2,843.05	15.76	13.63	162.05	-508.57	-127.12	1,136.52	1,109.27	27.25	41.713		
3,200.00	3,112.46	2,965.36	2,933.66	16.29	14.06	162.20	-522.63	-131.40	1,176.08	1,147.97	28.10	41.850		
3,300.00	3,208.95	3,057.15	3,024.28	16.81	14.50	162.35	-536.68	-135.68	1,215.64	1,186.68	28.96	41.975		
3,400.00	3,305.44	3,148.95	3,114.89	17.34	14.93	162.48	-550.74	-139.97	1,255.21	1,225.39	29.82	42.092		
3,500.00	3,401.92	3,240.75	3,205.51	17.87	15.36	162.61	-564.79	-144.25	1,294.79	1,264.11	30.68	42.200		
3,600.00	3,498.41	3,332.55	3,296.12	18.40	15.79	162.73	-578.85	-148.53	1,334.37	1,302.83	31.55	42.300		
3,700.00	3,594.90	3,424.35	3,386.74	18.93	16.23	162.84	-592.90	-152.82	1,373.96	1,341.55	32.41	42.393		
3,800.00	3,691.39	3,516.14	3,477.35	19.46	16.66	162.95	-606.96	-157.10	1,413.55	1,380.27	33.28	42.480		
3,900.00	3,787.88	3,607.94	3,567.97	19.99	17.10	163.05	-621.01	-161.38	1,453.14	1,419.00	34.14	42.561		
4,000.00	3,884.37	3,699.74	3,658.58	20.52	17.53	163.14	-635.06	-165.67	1,492.74	1,457.73	35.01	42.637		
4,100.00	3,980.85	3,808.46	3,749.19	21.05	18.05	163.23	-649.12	-169.95	1,532.34	1,496.39	35.96	42.617		
4,200.00	4,077.34	3,883.34	3,839.81	21.58	18.41	163.32	-663.17	-174.23	1,571.95	1,535.20	36.75	42.775		
4,300.00	4,173.83	3,975.14	3,930.42	22.11	18.84	163.40	-677.23	-178.52	1,611.56	1,573.94	37.62	42.838		
4,390.25	4,260.91	4,057.99	4,012.21	22.59	19.24	163.47	-689.91	-182.38	1,647.30	1,608.90	38.41	42.892		
4,400.00	4,270.32	4,066.94	4,021.05	22.64	19.28	163.50	-691.28	-182.80	1,651.15	1,612.66	38.49	42.898		
4,500.00	4,367.33	4,159.52	4,112.43	23.16	19.72	163.78	-705.46	-187.12	1,688.92	1,649.56	39.36	42.909		
4,600.00	4,465.13	4,253.32	4,205.02	23.65	20.17	164.01	-719.82	-191.50	1,723.56	1,683.33	40.23	42.845		
4,700.00	4,563.60	4,348.23	4,298.71	24.12	20.62	164.17	-734.35	-195.93	1,755.03	1,713.94	41.09	42.708		
4,800.00	4,662.61	4,444.13	4,393.38	24.56	21.08	164.28	-749.03	-200.40	1,783.31	1,741.35	41.96	42.504		
4,900.00	4,762.05	4,540.91	4,488.91	24.98	21.54	164.34	-763.85	-204.92	1,808.34	1,765.53	42.81	42.238		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 28N-3A-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,638.45	4,585.19	25.38	22.01	164.35	-778.78	-209.47	1,830.12	1,786.45	43.66	41.913		
5,100.00	4,961.73	4,736.63	4,682.10	25.76	22.48	164.32	-793.81	-214.05	1,848.61	1,804.10	44.51	41.534		
5,151.69	5,013.42	4,787.59	4,732.41	25.95	22.72	-143.82	-801.61	-216.43	1,856.87	1,811.93	44.94	41.319		
5,200.00	5,061.73	4,835.28	4,779.48	26.13	22.95	-143.90	-808.92	-218.65	1,864.18	1,818.84	45.34	41.115		
5,300.00	5,161.73	4,933.99	4,876.92	26.49	23.42	-144.06	-824.03	-223.26	1,879.33	1,833.16	46.17	40.701		
5,400.00	5,261.73	5,032.70	4,974.35	26.86	23.89	-144.22	-839.14	-227.86	1,894.49	1,847.48	47.01	40.300		
5,500.00	5,361.73	5,131.41	5,071.79	27.23	24.36	-144.37	-854.25	-232.47	1,909.67	1,861.82	47.85	39.912		
5,600.00	5,461.73	5,230.12	5,169.23	27.60	24.84	-144.53	-869.37	-237.08	1,924.86	1,876.17	48.69	39.536		
5,700.00	5,561.73	5,328.83	5,266.67	27.97	25.31	-144.68	-884.48	-241.68	1,940.06	1,890.53	49.53	39.172		
5,800.00	5,661.73	5,427.54	5,364.11	28.35	25.78	-144.82	-899.59	-246.29	1,955.27	1,904.91	50.37	38.819		
5,900.00	5,761.73	5,526.25	5,461.55	28.72	26.26	-144.97	-914.70	-250.89	1,970.50	1,919.29	51.21	38.477		
6,000.00	5,861.73	5,624.96	5,558.98	29.10	26.73	-145.11	-929.82	-255.50	1,985.74	1,933.68	52.06	38.145		
6,100.00	5,961.73	5,723.68	5,656.42	29.48	27.20	-145.25	-944.93	-260.11	2,000.99	1,948.09	52.90	37.822		
6,200.00	6,061.73	7,859.73	6,896.37	29.86	42.91	179.99	-1,135.20	867.21	1,997.89	1,932.72	65.17	30.657		
6,300.00	6,161.73	7,859.99	6,896.37	30.25	42.91	179.99	-1,135.20	867.47	1,958.22	1,891.36	66.86	29.287		
6,400.00	6,261.73	7,860.26	6,896.37	30.63	42.92	179.98	-1,135.20	867.73	1,922.94	1,854.46	68.49	28.078		
6,451.69	6,313.42	7,860.39	6,896.37	30.83	42.92	179.97	-1,135.20	867.87	1,906.51	1,837.22	69.29	27.516		
6,500.00	6,361.68	7,858.69	6,896.37	31.01	42.89	-88.86	-1,135.20	866.16	1,892.23	1,822.27	69.97	27.044		
6,550.00	6,411.34	7,853.08	6,896.35	31.20	42.78	-89.96	-1,135.21	860.56	1,878.57	1,808.01	70.56	26.623		
6,600.00	6,460.39	7,843.59	6,896.33	31.38	42.59	-90.82	-1,135.22	851.07	1,866.11	1,795.07	71.05	26.267		
6,650.00	6,508.54	7,830.29	6,896.29	31.58	42.33	-91.46	-1,135.24	837.77	1,854.90	1,783.49	71.42	25.973		
6,700.00	6,555.48	7,813.25	6,896.25	31.78	42.00	-91.86	-1,135.26	820.73	1,844.95	1,773.28	71.67	25.741		
6,750.00	6,600.93	7,807.42	6,896.19	31.98	41.89	-92.07	-1,135.29	800.06	1,836.24	1,764.13	72.11	25.465		
6,800.00	6,644.61	7,768.41	6,896.13	32.20	41.17	-92.09	-1,135.32	775.89	1,828.71	1,756.81	71.90	25.434		
6,850.00	6,686.25	7,740.88	6,896.06	32.44	40.66	-91.94	-1,135.35	748.36	1,822.30	1,750.42	71.87	25.354		
6,900.00	6,725.58	7,710.17	6,895.98	32.68	40.10	-91.67	-1,135.40	717.65	1,816.90	1,745.14	71.77	25.317		
6,950.00	6,762.38	7,676.46	6,895.89	32.96	39.51	-91.29	-1,135.44	683.94	1,812.41	1,740.80	71.61	25.309		
7,000.00	6,796.41	7,639.97	6,895.79	33.25	38.89	-90.83	-1,135.49	647.45	1,808.70	1,737.28	71.41	25.327		
7,050.00	6,827.46	7,600.91	6,895.69	33.58	38.22	-90.34	-1,135.54	608.39	1,805.63	1,734.46	71.17	25.370		
7,100.00	6,855.34	7,559.53	6,895.58	33.93	37.57	-89.84	-1,135.59	567.01	1,803.06	1,732.11	70.95	25.411		
7,150.00	6,879.88	7,516.08	6,895.47	34.33	36.89	-89.35	-1,135.65	523.56	1,800.87	1,730.14	70.72	25.463		
7,200.00	6,900.93	7,470.84	6,895.35	34.76	36.23	-88.92	-1,135.71	478.32	1,798.92	1,728.39	70.54	25.504		
7,250.00	6,918.36	7,424.07	6,895.23	35.23	35.57	-88.56	-1,135.77	431.55	1,797.11	1,726.73	70.38	25.534		
7,300.00	6,932.05	7,376.08	6,895.10	35.74	34.94	-88.29	-1,135.84	383.56	1,795.34	1,725.07	70.28	25.547		
7,350.00	6,941.94	7,320.30	6,894.67	36.29	34.25	-88.09	-1,135.87	327.78	1,793.52	1,723.37	70.15	25.569		
7,400.00	6,947.94	7,245.20	6,887.88	36.87	33.43	-87.81	-1,134.94	253.04	1,791.09	1,721.24	69.85	25.642		
7,450.00	6,950.04	7,172.86	6,873.17	37.47	32.76	-87.52	-1,132.78	182.29	1,787.90	1,718.20	69.70	25.652		
7,458.56	6,950.00	7,160.77	6,869.94	37.58	32.67	-87.47	-1,132.30	170.64	1,787.28	1,717.60	69.68	25.649		
7,500.00	6,949.56	7,104.06	6,851.90	38.11	32.37	-86.90	-1,129.60	116.97	1,784.09	1,714.41	69.69	25.602		
7,600.00	6,948.48	6,982.79	6,797.97	39.51	32.13	-85.17	-1,121.43	8.86	1,775.67	1,705.54	70.14	25.318		
7,700.00	6,947.40	6,884.64	6,740.11	41.06	31.96	-83.29	-1,112.59	-69.80	1,767.60	1,696.56	71.04	24.882		
7,800.00	6,946.32	6,807.05	6,686.33	42.74	31.79	-81.53	-1,104.35	-125.06	1,761.39	1,689.14	72.26	24.377		
7,900.00	6,945.24	6,745.85	6,639.47	44.55	31.64	-79.99	-1,097.15	-163.72	1,758.20	1,684.51	73.69	23.859		
7,935.20	6,944.86	6,727.46	6,624.70	45.22	31.59	-79.51	-1,094.88	-174.43	1,757.95	1,683.70	74.25	23.677		
8,000.00	6,944.16	6,697.18	6,599.72	46.46	31.51	-78.68	-1,091.04	-191.11	1,758.83	1,683.55	75.28	23.363		
8,100.00	6,943.08	6,657.98	6,566.28	48.47	31.39	-77.58	-1,085.89	-210.88	1,763.80	1,686.83	76.97	22.915		
8,200.00	6,942.01	6,625.96	6,538.10	50.55	31.29	-76.66	-1,081.55	-225.47	1,773.44	1,694.73	78.71	22.531		
8,300.00	6,940.93	6,600.00	6,514.76	52.71	31.20	-75.89	-1,077.95	-236.22	1,787.91	1,707.44	80.46	22.220		
8,400.00	6,939.85	6,577.16	6,493.88	54.93	31.12	-75.21	-1,074.72	-244.88	1,807.26	1,725.09	82.17	21.994		
8,500.00	6,938.77	6,550.00	6,468.66	57.20	31.03	-74.39	-1,070.83	-254.19	1,831.50	1,747.78	83.72	21.877		
8,600.00	6,937.69	6,550.00	6,468.66	59.53	31.03	-74.39	-1,070.83	-254.19	1,860.46	1,774.96	85.50	21.760		
8,700.00	6,936.61	6,527.96	6,447.93	61.89	30.95	-73.71	-1,067.63	-260.94	1,893.97	1,807.10	86.87	21.803		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 28N-3A-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	6,515.67	6,436.26	64.30	30.90	-73.33	-1,065.83	-264.38	1,931.91	1,843.69	88.22	21.898		
8,900.00	6,934.46	6,500.00	6,421.31	66.74	30.84	-72.85	-1,063.52	-268.44	1,974.05	1,884.65	89.40	22.081		
9,000.00	6,933.38	6,500.00	6,421.31	69.21	30.84	-72.85	-1,063.52	-268.44	2,020.12	1,929.47	90.64	22.286		
9,100.00	6,932.30	6,500.00	6,421.31	71.71	30.84	-72.85	-1,063.52	-268.44	2,070.00	1,978.24	91.75	22.561		
9,200.00	6,931.22	6,478.94	6,401.06	74.23	30.76	-72.19	-1,060.38	-273.31	2,123.10	2,030.62	92.48	22.957		
9,300.00	6,930.14	6,471.98	6,394.33	76.78	30.73	-71.98	-1,059.35	-274.77	2,179.55	2,086.28	93.27	23.368		
9,400.00	6,929.06	6,450.00	6,373.00	79.34	30.65	-71.29	-1,056.04	-278.89	2,239.16	2,145.38	93.77	23.878		
9,500.00	6,927.99	6,450.00	6,373.00	81.93	30.65	-71.29	-1,056.04	-278.89	2,301.24	2,206.79	94.45	24.366		
9,600.00	6,926.91	6,450.00	6,373.00	84.53	30.65	-71.29	-1,056.04	-278.89	2,365.92	2,270.89	95.03	24.897		
9,700.00	6,925.83	6,450.00	6,373.00	87.14	30.65	-71.29	-1,056.04	-278.89	2,432.99	2,337.46	95.53	25.468		
9,800.00	6,924.75	6,450.00	6,373.00	89.77	30.65	-71.29	-1,056.04	-278.89	2,502.27	2,406.31	95.96	26.076		
9,900.00	6,923.67	6,450.00	6,373.00	92.41	30.65	-71.29	-1,056.04	-278.89	2,573.56	2,477.24	96.32	26.717		
10,000.00	6,922.59	6,450.00	6,373.00	95.07	30.65	-71.29	-1,056.04	-278.89	2,646.71	2,550.08	96.63	27.389		
10,100.00	6,921.51	6,450.00	6,373.00	97.73	30.65	-71.29	-1,056.04	-278.89	2,721.57	2,624.68	96.89	28.089		
10,200.00	6,920.44	6,430.65	6,354.11	100.40	30.56	-70.68	-1,053.12	-281.90	2,797.70	2,700.79	96.91	28.868		
10,300.00	6,919.36	6,427.58	6,351.10	103.08	30.55	-70.59	-1,052.66	-282.33	2,875.48	2,778.41	97.06	29.625		
10,400.00	6,918.28	6,424.70	6,348.28	105.77	30.54	-70.50	-1,052.22	-282.71	2,954.57	2,857.39	97.18	30.402		
10,500.00	6,917.20	6,422.00	6,345.64	108.47	30.53	-70.41	-1,051.81	-283.06	3,034.89	2,937.61	97.28	31.198		
10,600.00	6,916.12	6,419.46	6,343.15	111.18	30.52	-70.33	-1,051.43	-283.38	3,116.34	3,018.99	97.35	32.012		
10,700.00	6,915.04	6,400.00	6,324.03	113.89	30.43	-69.73	-1,048.47	-285.48	3,199.07	3,101.83	97.23	32.902		
10,800.00	6,913.96	6,400.00	6,324.03	116.61	30.43	-69.73	-1,048.47	-285.48	3,282.46	3,185.17	97.29	33.739		
10,900.00	6,912.89	6,400.00	6,324.03	119.33	30.43	-69.73	-1,048.47	-285.48	3,366.76	3,269.43	97.33	34.591		
11,000.00	6,911.81	6,400.00	6,324.03	122.06	30.43	-69.73	-1,048.47	-285.48	3,451.90	3,354.54	97.36	35.455		
11,100.00	6,910.73	6,400.00	6,324.03	124.79	30.43	-69.73	-1,048.47	-285.48	3,537.81	3,440.44	97.37	36.332		
11,200.00	6,909.65	6,400.00	6,324.03	127.53	30.43	-69.73	-1,048.47	-285.48	3,624.45	3,527.07	97.38	37.220		
11,300.00	6,908.57	6,400.00	6,324.03	130.27	30.43	-69.73	-1,048.47	-285.48	3,711.76	3,614.38	97.37	38.118		
11,400.00	6,907.49	6,400.00	6,324.03	133.02	30.43	-69.73	-1,048.47	-285.48	3,799.69	3,702.33	97.36	39.026		
11,500.00	6,906.41	6,400.00	6,324.03	135.77	30.43	-69.73	-1,048.47	-285.48	3,888.21	3,790.87	97.34	39.943		
11,600.00	6,905.34	6,400.00	6,324.03	138.52	30.43	-69.73	-1,048.47	-285.48	3,977.28	3,879.96	97.32	40.868		
11,700.00	6,904.26	6,400.00	6,324.03	141.28	30.43	-69.73	-1,048.47	-285.48	4,066.85	3,969.56	97.29	41.801		
11,800.00	6,903.18	6,400.00	6,324.03	144.04	30.43	-69.73	-1,048.47	-285.48	4,156.89	4,059.63	97.26	42.740		
11,900.00	6,902.10	6,400.00	6,324.03	146.80	30.43	-69.73	-1,048.47	-285.48	4,247.39	4,150.16	97.22	43.687		
12,000.00	6,901.02	6,400.00	6,324.03	149.57	30.43	-69.73	-1,048.47	-285.48	4,338.30	4,241.11	97.19	44.639		
12,100.00	6,899.94	6,400.00	6,324.03	152.34	30.43	-69.73	-1,048.47	-285.48	4,429.60	4,332.45	97.15	45.597		
12,200.00	6,898.87	6,400.00	6,324.03	155.11	30.43	-69.73	-1,048.47	-285.48	4,521.27	4,424.16	97.11	46.560		
12,300.00	6,897.79	6,400.00	6,324.03	157.89	30.43	-69.73	-1,048.47	-285.48	4,613.28	4,516.22	97.06	47.528		
12,400.00	6,896.71	6,400.00	6,324.03	160.66	30.43	-69.73	-1,048.47	-285.48	4,705.62	4,608.60	97.02	48.501		
12,500.00	6,895.63	6,400.00	6,324.03	163.44	30.43	-69.73	-1,048.47	-285.48	4,798.27	4,701.29	96.98	49.477		
12,600.00	6,894.55	6,400.00	6,324.03	166.22	30.43	-69.73	-1,048.47	-285.48	4,891.21	4,794.27	96.94	50.458		
12,700.00	6,893.47	6,400.00	6,324.03	169.00	30.43	-69.73	-1,048.47	-285.48	4,984.42	4,887.53	96.89	51.442		
12,800.00	6,892.39	6,400.00	6,324.03	171.79	30.43	-69.73	-1,048.47	-285.48	5,077.89	4,981.04	96.85	52.430		
12,900.00	6,891.32	6,400.00	6,324.03	174.57	30.43	-69.73	-1,048.47	-285.48	5,171.61	5,074.80	96.81	53.421		
13,000.00	6,890.24	6,400.00	6,324.03	177.36	30.43	-69.73	-1,048.47	-285.48	5,265.55	5,168.78	96.77	54.414		
13,100.00	6,889.16	6,400.00	6,324.03	180.15	30.43	-69.73	-1,048.47	-285.48	5,359.72	5,262.99	96.73	55.410		
13,200.00	6,888.08	6,400.00	6,324.03	182.94	30.43	-69.73	-1,048.47	-285.48	5,454.09	5,357.40	96.69	56.409		
13,300.00	6,887.00	6,400.00	6,324.03	185.74	30.43	-69.73	-1,048.47	-285.48	5,548.66	5,452.01	96.65	57.410		
13,400.00	6,885.92	6,400.00	6,324.03	188.53	30.43	-69.73	-1,048.47	-285.48	5,643.41	5,546.80	96.61	58.413		
13,500.00	6,884.84	6,400.00	6,324.03	191.32	30.43	-69.73	-1,048.47	-285.48	5,738.35	5,641.77	96.58	59.418		
13,600.00	6,883.77	6,400.00	6,324.03	194.12	30.43	-69.73	-1,048.47	-285.48	5,833.45	5,736.91	96.54	60.424		
13,700.00	6,882.69	6,400.00	6,324.03	196.92	30.43	-69.73	-1,048.47	-285.48	5,928.72	5,832.21	96.51	61.432		
13,800.00	6,881.61	6,400.00	6,324.03	199.72	30.43	-69.73	-1,048.47	-285.48	6,024.14	5,927.66	96.48	62.442		
13,900.00	6,880.53	6,400.00	6,324.03	202.52	30.43	-69.73	-1,048.47	-285.48	6,119.70	6,023.26	96.44	63.453		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 28N-3A-L - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,879.45	6,400.00	6,324.03	205.32	30.43	-69.73	-1,048.47	-285.48	6,215.40	6,118.99	96.41	64.465		
14,100.00	6,878.37	6,377.62	6,301.98	208.12	30.33	-69.03	-1,045.05	-287.16	6,310.82	6,214.60	96.22	65.588		
14,200.00	6,877.29	6,377.05	6,301.41	210.92	30.33	-69.01	-1,044.96	-287.19	6,406.76	6,310.57	96.19	66.606		
14,300.00	6,876.22	6,376.49	6,300.87	213.73	30.33	-68.99	-1,044.88	-287.22	6,502.83	6,406.67	96.16	67.625		
14,400.00	6,875.14	6,375.95	6,300.34	216.53	30.33	-68.97	-1,044.80	-287.25	6,599.01	6,502.88	96.13	68.645		
14,500.00	6,874.06	6,375.43	6,299.82	219.34	30.32	-68.96	-1,044.71	-287.28	6,695.30	6,599.19	96.11	69.665		
14,600.00	6,872.98	6,374.92	6,299.31	222.15	30.32	-68.94	-1,044.64	-287.31	6,791.70	6,695.62	96.08	70.686		
14,700.00	6,871.90	6,374.42	6,298.82	224.95	30.32	-68.93	-1,044.56	-287.33	6,888.20	6,792.14	96.06	71.707		
14,800.00	6,870.82	6,373.94	6,298.35	227.76	30.32	-68.91	-1,044.49	-287.36	6,984.80	6,888.76	96.04	72.728		
14,900.00	6,869.75	6,373.47	6,297.88	230.57	30.31	-68.90	-1,044.42	-287.38	7,081.50	6,985.48	96.02	73.750		
15,000.00	6,868.67	6,373.01	6,297.43	233.38	30.31	-68.88	-1,044.35	-287.41	7,178.28	7,082.28	96.00	74.772		
15,100.00	6,867.59	6,372.57	6,296.99	236.19	30.31	-68.87	-1,044.28	-287.43	7,275.15	7,179.17	95.99	75.794		
15,200.00	6,866.51	6,350.00	6,274.70	239.00	30.21	-68.17	-1,040.82	-288.15	7,372.52	7,276.71	95.81	76.952		
15,300.00	6,865.43	6,350.00	6,274.70	241.81	30.21	-68.17	-1,040.82	-288.15	7,469.53	7,373.74	95.80	77.973		
15,400.00	6,864.35	6,350.00	6,274.70	244.63	30.21	-68.17	-1,040.82	-288.15	7,566.63	7,470.84	95.79	78.993		
15,500.00	6,863.27	6,350.00	6,274.70	247.44	30.21	-68.17	-1,040.82	-288.15	7,663.80	7,568.02	95.78	80.013		
15,600.00	6,862.20	6,350.00	6,274.70	250.25	30.21	-68.17	-1,040.82	-288.15	7,761.04	7,665.27	95.78	81.034		
15,618.10	6,862.00	6,350.00	6,274.70	250.76	30.21	-68.17	-1,040.82	-288.15	7,778.65	7,682.87	95.77	81.218		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	5.85	29.87	3.06	30.03					
100.00	100.00	100.00	100.00	3.28	3.28	5.85	29.87	3.06	30.03	23.46	6.57	4.571		
200.00	200.00	200.00	200.00	3.34	3.34	5.85	29.87	3.06	30.03	23.36	6.67	4.499 CC		
300.00	299.98	299.19	299.17	3.44	3.44	-46.37	31.10	4.27	30.17	23.28	6.89	4.376		
400.00	399.84	398.37	398.22	3.61	3.60	-47.33	34.77	7.88	30.60	23.37	7.22	4.236		
500.00	499.45	497.56	497.02	3.81	3.81	-48.87	40.88	13.89	31.33	23.68	7.65	4.097		
600.00	598.70	596.73	595.46	4.06	4.05	-50.91	49.43	22.29	32.39	24.23	8.15	3.972		
700.00	697.47	695.90	693.43	4.35	4.34	-53.33	60.40	33.08	33.80	25.07	8.73	3.872		
800.00	795.62	795.06	790.79	4.66	4.65	-56.02	73.78	46.24	35.60	26.24	9.37	3.801		
900.00	893.06	905.18	888.26	5.01	5.03	-60.12	88.93	61.14	37.19	27.10	10.09	3.686		
961.44	952.51	956.19	948.21	5.25	5.21	-64.76	98.29	70.34	37.51	27.02	10.50	3.574		
1,000.00	989.71	1,005.32	985.81	5.40	5.40	-68.19	104.16	76.12	37.68	26.86	10.83	3.481		
1,100.00	1,086.20	1,105.49	1,083.33	5.81	5.79	-76.85	119.38	91.09	38.75	27.13	11.62	3.335		
1,200.00	1,182.69	1,205.67	1,180.84	6.24	6.20	-84.87	134.61	106.06	40.64	28.19	12.45	3.265		
1,300.00	1,279.18	1,305.84	1,278.36	6.69	6.62	-92.06	149.83	121.03	43.25	29.95	13.30	3.251		
1,400.00	1,375.67	1,406.01	1,375.88	7.15	7.05	-98.34	165.05	136.00	46.46	32.29	14.18	3.277		
1,500.00	1,472.15	1,506.18	1,473.40	7.62	7.49	-103.76	180.28	150.97	50.16	35.10	15.06	3.330		
1,600.00	1,568.64	1,606.36	1,570.91	8.10	7.94	-108.40	195.50	165.94	54.24	38.28	15.96	3.399		
1,700.00	1,665.13	1,706.53	1,668.43	8.59	8.39	-112.37	210.73	180.91	58.63	41.77	16.86	3.477		
1,800.00	1,761.62	1,793.30	1,765.95	9.08	8.79	-115.77	225.95	195.88	63.26	45.55	17.71	3.572		
1,900.00	1,858.11	1,906.87	1,863.47	9.58	9.32	-118.70	241.17	210.85	68.08	49.40	18.68	3.644		
2,000.00	1,954.60	2,007.05	1,960.98	10.08	9.78	-121.24	256.40	225.82	73.06	53.45	19.60	3.727		
2,100.00	2,051.09	2,107.22	2,058.50	10.59	10.25	-123.45	271.62	240.79	78.16	57.63	20.53	3.808		
2,200.00	2,147.57	2,207.39	2,156.02	11.09	10.72	-125.39	286.84	255.76	83.36	61.90	21.45	3.885		
2,300.00	2,244.06	2,307.56	2,253.53	11.61	11.20	-127.10	302.07	270.73	88.64	66.26	22.39	3.960		
2,400.00	2,340.55	2,407.74	2,351.05	12.12	11.67	-128.61	317.29	285.70	94.00	70.68	23.32	4.031		
2,500.00	2,437.04	2,507.91	2,448.57	12.64	12.15	-129.97	332.51	300.68	99.41	75.16	24.26	4.098		
2,600.00	2,533.53	2,608.08	2,546.09	13.15	12.63	-131.18	347.74	315.65	104.88	79.68	25.20	4.162		
2,700.00	2,630.02	2,708.25	2,643.60	13.67	13.11	-132.27	362.96	330.62	110.38	84.24	26.14	4.223		
2,800.00	2,726.50	2,791.57	2,741.12	14.19	13.52	-133.25	378.19	345.59	115.93	88.92	27.01	4.292		
2,900.00	2,822.99	2,908.60	2,838.64	14.72	14.08	-134.15	393.41	360.56	121.50	93.46	28.03	4.334		
3,000.00	2,919.48	2,991.23	2,936.16	15.24	14.48	-134.97	408.63	375.53	127.10	98.20	28.90	4.398		
3,100.00	3,015.97	3,108.95	3,033.67	15.76	15.05	-135.72	423.86	390.50	132.72	102.79	29.94	4.433		
3,200.00	3,112.46	3,209.12	3,131.19	16.29	15.54	-136.40	439.08	405.47	138.37	107.48	30.89	4.479		
3,300.00	3,208.95	3,309.29	3,228.71	16.81	16.03	-137.04	454.30	420.44	144.03	112.18	31.85	4.523		
3,400.00	3,305.44	3,390.54	3,326.22	17.34	16.42	-137.62	469.53	435.41	149.71	117.00	32.71	4.577		
3,500.00	3,401.92	3,509.64	3,423.74	17.87	17.01	-138.17	484.75	450.38	155.40	121.64	33.76	4.603		
3,600.00	3,498.41	3,609.81	3,521.26	18.40	17.50	-138.67	499.97	465.35	161.11	126.39	34.72	4.640		
3,700.00	3,594.90	3,709.98	3,618.78	18.93	17.99	-139.14	515.20	480.32	166.83	131.15	35.68	4.676		
3,800.00	3,691.39	3,789.85	3,716.29	19.46	18.38	-139.58	530.42	495.29	172.56	136.01	36.54	4.722		
3,900.00	3,787.88	3,889.67	3,813.81	19.99	18.87	-139.99	545.65	510.26	178.29	140.79	37.50	4.754		
4,000.00	3,884.37	3,989.50	3,911.33	20.52	19.36	-140.38	560.87	525.24	184.04	145.57	38.47	4.785		
4,100.00	3,980.85	4,089.33	4,008.85	21.05	19.85	-140.74	576.09	540.21	189.79	150.37	39.43	4.814		
4,200.00	4,077.34	4,189.16	4,106.36	21.58	20.34	-141.08	591.32	555.18	195.56	155.17	40.39	4.842		
4,300.00	4,173.83	4,288.98	4,203.88	22.11	20.83	-141.40	606.54	570.15	201.32	159.97	41.36	4.868		
4,390.25	4,260.91	4,379.08	4,291.89	22.59	21.27	-141.67	620.28	583.66	206.53	164.31	42.23	4.891		
4,400.00	4,270.32	4,388.81	4,301.40	22.64	21.32	-141.71	621.76	585.12	207.08	164.77	42.32	4.893		
4,500.00	4,367.33	4,488.72	4,398.99	23.16	21.81	-141.69	637.00	600.10	211.23	167.94	43.29	4.879		
4,600.00	4,465.13	4,588.68	4,496.64	23.65	22.30	-141.07	652.24	615.09	212.64	168.38	44.27	4.804		
4,700.00	4,563.60	4,688.56	4,594.21	24.12	22.80	-139.82	667.48	630.07	211.41	166.16	45.25	4.672		
4,800.00	4,662.61	4,788.25	4,691.59	24.56	23.29	-137.88	682.68	645.02	207.67	161.42	46.25	4.490		
4,900.00	4,762.05	4,887.62	4,788.66	24.98	23.78	-135.17	697.83	659.92	201.67	154.41	47.26	4.267		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,986.55	4,885.30	25.38	24.27	-131.53	712.92	674.76	193.80	145.50	48.30	4.013		
5,100.00	4,961.73	5,084.92	4,981.40	25.76	24.75	-126.75	727.92	689.51	184.62	135.25	49.37	3.740		
5,151.69	5,013.42	5,135.51	5,030.82	25.95	25.00	-71.87	735.64	697.10	179.62	129.69	49.93	3.597		
5,200.00	5,061.73	5,182.70	5,076.92	26.13	25.24	-68.90	742.83	704.17	175.19	124.72	50.47	3.471		
5,300.00	5,161.73	5,280.39	5,172.34	26.49	25.72	-62.32	757.73	718.82	167.66	116.08	51.58	3.250		
5,400.00	5,261.73	5,378.07	5,267.77	26.86	26.20	-55.25	772.63	733.47	162.62	109.94	52.68	3.087		
5,500.00	5,361.73	5,475.76	5,363.19	27.23	26.69	-47.87	787.52	748.12	160.30	106.56	53.74	2.983		
5,532.00	5,393.73	5,507.02	5,393.73	27.35	26.84	-45.48	792.29	752.81	160.15	106.09	54.06	2.962		
5,600.00	5,461.73	5,573.44	5,458.62	27.60	27.17	-40.41	802.42	762.77	160.81	106.09	54.72	2.939		
5,700.00	5,561.73	5,671.13	5,554.04	27.97	27.65	-33.12	817.32	777.42	164.13	108.51	55.62	2.951		
5,800.00	5,661.73	5,768.82	5,649.47	28.35	28.14	-26.21	832.21	792.07	170.10	113.66	56.44	3.014		
5,900.00	5,761.73	5,866.50	5,744.89	28.72	28.62	-19.83	847.11	806.72	178.45	121.25	57.20	3.120		
6,000.00	5,861.73	5,964.19	5,840.32	29.10	29.10	-14.07	862.01	821.37	188.86	130.94	57.92	3.261		
6,100.00	5,961.73	6,061.87	5,935.74	29.48	29.59	-8.94	876.91	836.02	201.01	142.40	58.61	3.430		
6,200.00	6,061.73	6,159.56	6,031.17	29.86	30.07	-4.41	891.80	850.67	214.62	155.32	59.30	3.619		
6,300.00	6,161.73	6,257.25	6,126.60	30.25	30.56	-0.42	906.70	865.32	229.41	169.41	60.00	3.824		
6,400.00	6,261.73	6,354.93	6,222.02	30.63	31.04	3.07	921.60	879.97	245.18	184.48	60.71	4.039		
6,451.69	6,313.42	6,405.43	6,271.35	30.83	31.29	4.71	929.30	887.54	253.66	192.58	61.08	4.153		
6,500.00	6,361.68	6,452.29	6,317.12	31.01	31.52	98.23	936.44	894.57	262.02	200.62	61.40	4.267		
6,550.00	6,411.34	6,500.11	6,363.63	31.20	31.76	99.87	943.70	901.71	271.62	209.93	61.69	4.403		
6,600.00	6,460.39	6,547.77	6,410.41	31.38	32.00	101.99	951.00	908.75	282.51	220.56	61.96	4.560		
6,650.00	6,508.54	6,600.44	6,462.26	31.58	32.24	104.29	958.97	913.40	294.33	232.08	62.25	4.728		
6,700.00	6,555.48	6,654.97	6,516.17	31.78	32.47	106.39	967.07	913.63	306.68	244.17	62.51	4.906		
6,750.00	6,600.93	6,711.53	6,571.92	31.98	32.69	108.27	975.27	908.94	319.35	256.67	62.68	5.095		
6,800.00	6,644.61	6,770.29	6,629.19	32.20	32.90	109.96	983.48	898.81	332.13	269.41	62.73	5.295		
6,850.00	6,686.25	6,831.39	6,687.52	32.44	33.12	111.44	991.62	882.66	344.82	282.19	62.63	5.506		
6,900.00	6,725.58	6,894.96	6,746.34	32.68	33.34	112.74	999.59	859.96	357.17	294.81	62.36	5.728		
6,950.00	6,762.38	6,961.09	6,804.86	32.96	33.58	113.84	1,007.23	830.19	368.97	307.06	61.91	5.960		
7,000.00	6,796.41	7,029.81	6,862.13	33.25	33.84	114.76	1,014.40	792.95	380.00	318.67	61.33	6.196		
7,050.00	6,827.46	7,101.06	6,916.99	33.58	34.14	115.49	1,020.92	748.02	390.03	329.35	60.68	6.428		
7,100.00	6,855.34	7,174.69	6,968.14	33.93	34.48	116.02	1,026.58	695.42	398.86	338.79	60.07	6.640		
7,150.00	6,879.88	7,250.43	7,014.16	34.33	34.89	116.35	1,031.18	635.49	406.29	346.65	59.63	6.813		
7,200.00	6,900.93	7,327.90	7,053.63	34.76	35.39	116.48	1,034.56	568.97	412.17	352.62	59.55	6.921		
7,250.00	6,918.36	7,406.60	7,085.28	35.23	35.99	116.41	1,036.54	497.00	416.37	356.42	59.94	6.946		
7,300.00	6,932.05	7,485.93	7,108.07	35.74	36.70	116.12	1,037.05	421.07	418.81	357.89	60.92	6.874		
7,350.00	6,941.94	7,565.27	7,121.36	36.29	37.50	115.63	1,036.04	342.91	419.48	356.98	62.50	6.712		
7,400.00	6,947.94	7,643.97	7,124.95	36.87	38.37	114.94	1,033.56	264.38	418.39	353.79	64.60	6.477		
7,450.00	6,950.04	7,692.33	7,124.54	37.47	38.96	114.71	1,031.64	216.06	417.48	351.58	65.90	6.335		
7,452.87	6,950.04	7,695.20	7,124.52	37.51	38.99	114.70	1,031.53	213.20	417.47	351.51	65.97	6.329		
7,458.56	6,950.00	7,700.89	7,124.47	37.58	39.06	114.70	1,031.30	207.51	417.48	351.38	66.10	6.316		
7,500.00	6,949.56	7,742.33	7,124.10	38.11	39.62	114.70	1,029.65	166.10	417.64	350.52	67.12	6.222		
7,600.00	6,948.48	7,842.33	7,123.23	39.51	41.03	114.71	1,025.68	66.18	418.01	348.25	69.76	5.992		
7,700.00	6,947.40	7,942.33	7,122.35	41.06	42.59	114.72	1,021.71	-33.73	418.39	345.71	72.67	5.757		
7,800.00	6,946.32	8,042.33	7,121.47	42.74	44.28	114.72	1,017.73	-133.65	418.76	342.93	75.83	5.522		
7,900.00	6,945.24	8,142.33	7,120.59	44.55	46.09	114.73	1,013.76	-233.57	419.13	339.92	79.21	5.291		
8,000.00	6,944.16	8,242.33	7,119.72	46.46	48.00	114.74	1,009.79	-333.48	419.51	336.73	82.78	5.068		
8,100.00	6,943.08	8,342.33	7,118.84	48.47	50.00	114.74	1,005.81	-433.40	419.88	333.36	86.52	4.853		
8,200.00	6,942.01	8,442.33	7,117.96	50.55	52.07	114.75	1,001.84	-533.32	420.26	329.86	90.40	4.649		
8,300.00	6,940.93	8,542.33	7,117.09	52.71	54.22	114.76	997.87	-633.23	420.63	326.22	94.41	4.455		
8,400.00	6,939.85	8,642.33	7,116.21	54.93	56.43	114.76	993.90	-733.15	421.00	322.47	98.53	4.273		
8,500.00	6,938.77	8,742.33	7,115.33	57.20	58.70	114.77	989.92	-833.06	421.38	318.63	102.75	4.101		
8,600.00	6,937.69	8,842.32	7,114.45	59.53	61.01	114.78	985.95	-932.98	421.75	314.69	107.06	3.940		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	6,936.61	8,942.32	7,113.58	61.89	63.36	114.78	981.98	-1,032.90	422.12	310.69	111.44	3.788		
8,800.00	6,935.54	9,042.32	7,112.70	64.30	65.76	114.79	978.00	-1,132.81	422.50	306.61	115.89	3.646		
8,900.00	6,934.46	9,142.32	7,111.82	66.74	68.19	114.80	974.03	-1,232.73	422.87	302.47	120.40	3.512		
9,000.00	6,933.38	9,242.32	7,110.94	69.21	70.65	114.80	970.06	-1,332.65	423.25	298.28	124.97	3.387		
9,100.00	6,932.30	9,342.32	7,110.07	71.71	73.13	114.81	966.08	-1,432.56	423.62	294.04	129.58	3.269		
9,200.00	6,931.22	9,442.32	7,109.19	74.23	75.65	114.82	962.11	-1,532.48	423.99	289.76	134.24	3.159		
9,300.00	6,930.14	9,542.32	7,108.31	76.78	78.18	114.82	958.14	-1,632.40	424.37	285.44	138.93	3.055		
9,400.00	6,929.06	9,642.32	7,107.43	79.34	80.74	114.83	954.16	-1,732.31	424.74	281.08	143.66	2.957		
9,500.00	6,927.99	9,742.32	7,106.56	81.93	83.31	114.84	950.19	-1,832.23	425.12	276.69	148.42	2.864		
9,600.00	6,926.91	9,842.32	7,105.68	84.53	85.90	114.84	946.22	-1,932.15	425.49	272.28	153.21	2.777		
9,700.00	6,925.83	9,942.32	7,104.80	87.14	88.51	114.85	942.24	-2,032.06	425.86	267.84	158.02	2.695		
9,800.00	6,924.75	10,042.32	7,103.92	89.77	91.13	114.86	938.27	-2,131.98	426.24	263.37	162.86	2.617		
9,900.00	6,923.67	10,142.32	7,103.05	92.41	93.76	114.86	934.30	-2,231.90	426.61	258.89	167.72	2.544		
10,000.00	6,922.59	10,242.31	7,102.17	95.07	96.41	114.87	930.32	-2,331.81	426.98	254.38	172.60	2.474		
10,100.00	6,921.51	10,342.31	7,101.29	97.73	99.06	114.88	926.35	-2,431.73	427.36	249.86	177.50	2.408		
10,200.00	6,920.44	10,442.31	7,100.41	100.40	101.73	114.88	922.38	-2,531.64	427.73	245.32	182.41	2.345		
10,300.00	6,919.36	10,542.31	7,099.54	103.08	104.40	114.89	918.41	-2,631.56	428.11	240.76	187.34	2.285		
10,400.00	6,918.28	10,642.31	7,098.66	105.77	107.09	114.90	914.43	-2,731.48	428.48	236.20	192.28	2.228		
10,500.00	6,917.20	10,742.31	7,097.78	108.47	109.78	114.90	910.46	-2,831.39	428.85	231.61	197.24	2.174		
10,600.00	6,916.12	10,842.31	7,096.91	111.18	112.48	114.91	906.49	-2,931.31	429.23	227.02	202.21	2.123		
10,700.00	6,915.04	10,942.31	7,096.03	113.89	115.18	114.91	902.51	-3,031.23	429.60	222.42	207.19	2.074		
10,800.00	6,913.96	11,042.31	7,095.15	116.61	117.89	114.92	898.54	-3,131.14	429.98	217.80	212.17	2.027		
10,900.00	6,912.89	11,142.31	7,094.27	119.33	120.61	114.93	894.57	-3,231.06	430.35	213.18	217.17	1.982		
11,000.00	6,911.81	11,242.31	7,093.40	122.06	123.34	114.93	890.59	-3,330.98	430.72	208.55	222.18	1.939		
11,100.00	6,910.73	11,342.31	7,092.52	124.79	126.06	114.94	886.62	-3,430.89	431.10	203.91	227.19	1.897		
11,200.00	6,909.65	11,442.31	7,091.64	127.53	128.80	114.95	882.65	-3,530.81	431.47	199.26	232.21	1.858		
11,300.00	6,908.57	11,542.31	7,090.76	130.27	131.54	114.95	878.67	-3,630.73	431.85	194.60	237.24	1.820		
11,400.00	6,907.49	11,642.31	7,089.89	133.02	134.28	114.96	874.70	-3,730.64	432.22	189.94	242.28	1.784		
11,500.00	6,906.41	11,742.30	7,089.01	135.77	137.02	114.97	870.73	-3,830.56	432.59	185.27	247.32	1.749		
11,600.00	6,905.34	11,842.30	7,088.13	138.52	139.77	114.97	866.75	-3,930.48	432.97	180.60	252.37	1.716		
11,700.00	6,904.26	11,942.30	7,087.25	141.28	142.53	114.98	862.78	-4,030.39	433.34	175.92	257.42	1.683		
11,800.00	6,903.18	12,042.30	7,086.38	144.04	145.28	114.98	858.81	-4,130.31	433.72	171.23	262.48	1.652		
11,900.00	6,902.10	12,142.30	7,085.50	146.80	148.04	114.99	854.83	-4,230.22	434.09	166.55	267.54	1.622		
12,000.00	6,901.02	12,242.30	7,084.62	149.57	150.81	115.00	850.86	-4,330.14	434.46	161.85	272.61	1.594		
12,100.00	6,899.94	12,342.30	7,083.74	152.34	153.57	115.00	846.89	-4,430.06	434.84	157.15	277.68	1.566		
12,200.00	6,898.87	12,442.30	7,082.87	155.11	156.34	115.01	842.91	-4,529.97	435.21	152.45	282.76	1.539		
12,300.00	6,897.79	12,542.30	7,081.99	157.89	159.11	115.02	838.94	-4,629.89	435.59	147.75	287.84	1.513		
12,400.00	6,896.71	12,642.30	7,081.11	160.66	161.89	115.02	834.97	-4,729.81	435.96	143.04	292.92	1.488	Level 3	
12,500.00	6,895.63	12,742.30	7,080.23	163.44	164.66	115.03	831.00	-4,829.72	436.33	138.33	298.01	1.464	Level 3	
12,600.00	6,894.55	12,842.30	7,079.36	166.22	167.44	115.03	827.02	-4,929.64	436.71	133.61	303.10	1.441	Level 3	
12,700.00	6,893.47	12,942.30	7,078.48	169.00	170.22	115.04	823.05	-5,029.56	437.08	128.89	308.19	1.418	Level 3	
12,800.00	6,892.39	13,042.30	7,077.60	171.79	173.00	115.05	819.08	-5,129.47	437.46	124.17	313.28	1.396	Level 3	
12,900.00	6,891.32	13,142.29	7,076.73	174.57	175.79	115.05	815.10	-5,229.39	437.83	119.45	318.38	1.375	Level 3	
13,000.00	6,890.24	13,242.29	7,075.85	177.36	178.57	115.06	811.13	-5,329.31	438.20	114.72	323.48	1.355	Level 3	
13,100.00	6,889.16	13,342.29	7,074.97	180.15	181.36	115.07	807.16	-5,429.22	438.58	109.99	328.58	1.335	Level 3	
13,200.00	6,888.08	13,442.29	7,074.09	182.94	184.15	115.07	803.18	-5,529.14	438.95	105.26	333.69	1.315	Level 3	
13,300.00	6,887.00	13,542.29	7,073.22	185.74	186.94	115.08	799.21	-5,629.06	439.33	100.53	338.80	1.297	Level 3	
13,400.00	6,885.92	13,642.29	7,072.34	188.53	189.73	115.08	795.24	-5,728.97	439.70	95.80	343.90	1.279	Level 3	
13,500.00	6,884.84	13,742.29	7,071.46	191.32	192.53	115.09	791.26	-5,828.89	440.07	91.06	349.01	1.261	Level 3	
13,600.00	6,883.77	13,842.29	7,070.58	194.12	195.32	115.10	787.29	-5,928.81	440.45	86.32	354.13	1.244	Level 2	
13,700.00	6,882.69	13,942.29	7,069.71	196.92	198.12	115.10	783.32	-6,028.72	440.82	81.58	359.24	1.227	Level 2	
13,800.00	6,881.61	14,042.29	7,068.83	199.72	200.91	115.11	779.34	-6,128.64	441.20	76.84	364.36	1.211	Level 2	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,900.00	6,880.53	14,142.29	7,067.95	202.52	203.71	115.11	775.37	-6,228.55	441.57	72.10	369.47	1.195	Level 2	
14,000.00	6,879.45	14,242.29	7,067.07	205.32	206.51	115.12	771.40	-6,328.47	441.94	67.35	374.59	1.180	Level 2	
14,100.00	6,878.37	14,342.29	7,066.20	208.12	209.31	115.13	767.42	-6,428.39	442.32	62.61	379.71	1.165	Level 2	
14,200.00	6,877.29	14,442.29	7,065.32	210.92	212.12	115.13	763.45	-6,528.30	442.69	57.86	384.83	1.150	Level 2	
14,300.00	6,876.22	14,542.28	7,064.44	213.73	214.92	115.14	759.48	-6,628.22	443.07	53.11	389.96	1.136	Level 2	
14,400.00	6,875.14	14,642.28	7,063.56	216.53	217.72	115.14	755.50	-6,728.14	443.44	48.36	395.08	1.122	Level 2	
14,500.00	6,874.06	14,742.28	7,062.69	219.34	220.53	115.15	751.53	-6,828.05	443.82	43.61	400.20	1.109	Level 2	
14,600.00	6,872.98	14,842.28	7,061.81	222.15	223.33	115.16	747.56	-6,927.97	444.19	38.86	405.33	1.096	Level 2	
14,700.00	6,871.90	14,942.28	7,060.93	224.95	226.14	115.16	743.59	-7,027.89	444.56	34.11	410.46	1.083	Level 2	
14,800.00	6,870.82	15,042.28	7,060.05	227.76	228.95	115.17	739.61	-7,127.80	444.94	29.35	415.58	1.071	Level 2	
14,900.00	6,869.75	15,142.28	7,059.18	230.57	231.76	115.17	735.64	-7,227.72	445.31	24.60	420.71	1.058	Level 2	
15,000.00	6,868.67	15,242.28	7,058.30	233.38	234.57	115.18	731.67	-7,327.64	445.69	19.84	425.84	1.047	Level 2	
15,100.00	6,867.59	15,342.28	7,057.42	236.19	237.38	115.19	727.69	-7,427.55	446.06	15.09	430.97	1.035	Level 2	
15,200.00	6,866.51	15,442.28	7,056.55	239.00	240.19	115.19	723.72	-7,527.47	446.43	10.33	436.10	1.024	Level 2	
15,300.00	6,865.43	15,542.28	7,055.67	241.81	243.00	115.20	719.75	-7,627.39	446.81	5.57	441.23	1.013	Level 2	
15,400.00	6,864.35	15,642.28	7,054.79	244.63	245.81	115.20	715.77	-7,727.30	447.18	0.82	446.37	1.002	Level 2	
15,500.00	6,863.27	15,742.28	7,053.91	247.44	248.62	115.21	711.80	-7,827.22	447.56	-3.94	451.50	0.991	Level 1	
15,600.00	6,862.20	15,842.28	7,053.04	250.25	251.43	115.22	707.83	-7,927.13	447.93	-8.70	456.63	0.981	Level 1, ES, SF	
15,618.10	6,862.00	15,846.35	7,053.00	250.76	251.55	115.22	707.66	-7,931.20	448.22	-8.62	456.84	0.981	Level 1	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32N-6B-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	5.68	44.81	4.45	45.03					
100.00	100.00	100.00	100.00	3.28	3.28	5.68	44.81	4.45	45.03	38.46	6.57	6.854		
200.00	200.00	200.00	200.00	3.34	3.34	5.68	44.81	4.45	45.03	38.36	6.67	6.747		
300.00	299.98	299.98	299.98	3.44	3.44	-47.88	44.81	4.45	43.84	36.95	6.89	6.364		
400.00	399.84	398.61	398.59	3.61	3.60	-52.12	46.28	5.31	41.99	34.78	7.21	5.824		
499.66	499.11	496.98	496.82	3.81	3.80	-57.97	50.66	7.85	41.31	33.68	7.62	5.418	CC	
500.00	499.45	497.32	497.16	3.81	3.80	-57.99	50.68	7.86	41.31	33.68	7.63	5.417	ES	
600.00	598.70	596.20	595.68	4.06	4.05	-65.00	57.99	12.21	42.03	33.92	8.12	5.178		
700.00	697.47	695.32	694.08	4.35	4.32	-72.02	67.82	18.84	43.90	35.23	8.67	5.062		
800.00	795.62	794.55	792.12	4.66	4.62	-78.55	80.12	27.84	46.82	37.53	9.29	5.041		
900.00	893.06	893.88	889.69	5.01	4.95	-84.35	94.86	39.22	50.73	40.77	9.96	5.092		
961.44	952.51	954.96	949.35	5.25	5.17	-87.50	105.13	47.38	53.60	43.19	10.41	5.148		
1,000.00	989.71	993.33	986.67	5.40	5.31	-89.08	112.04	52.96	55.56	44.86	10.70	5.192		
1,100.00	1,086.20	1,093.04	1,083.21	5.81	5.69	-90.93	131.34	68.75	61.02	49.52	11.50	5.307		
1,200.00	1,182.69	1,207.12	1,179.78	6.24	6.16	-92.15	150.93	84.83	66.56	54.16	12.39	5.370		
1,300.00	1,279.18	1,307.29	1,276.35	6.69	6.59	-93.18	170.51	100.90	72.12	58.86	13.27	5.436		
1,400.00	1,375.67	1,407.45	1,372.91	7.15	7.03	-94.06	190.10	116.97	77.71	63.55	14.17	5.486		
1,500.00	1,472.15	1,507.61	1,469.48	7.62	7.48	-94.83	209.68	133.04	83.31	68.23	15.08	5.523		
1,600.00	1,568.64	1,592.22	1,566.05	8.10	7.87	-95.49	229.27	149.11	88.93	72.98	15.95	5.576		
1,700.00	1,665.13	1,707.94	1,662.62	8.59	8.41	-96.08	248.85	165.18	94.56	77.58	16.97	5.571		
1,800.00	1,761.62	1,808.10	1,759.19	9.08	8.88	-96.61	268.44	181.25	100.19	82.26	17.93	5.587		
1,900.00	1,858.11	1,908.26	1,855.76	9.58	9.36	-97.07	288.02	197.32	105.83	86.93	18.91	5.598		
2,000.00	1,954.60	2,008.43	1,952.33	10.08	9.85	-97.49	307.61	213.39	111.48	91.59	19.89	5.606		
2,100.00	2,051.09	2,108.59	2,048.90	10.59	10.34	-97.87	327.19	229.46	117.14	96.26	20.88	5.611		
2,200.00	2,147.57	2,191.25	2,145.47	11.09	10.74	-98.22	346.78	245.53	122.79	101.01	21.78	5.637		
2,300.00	2,244.06	2,308.92	2,242.04	11.61	11.32	-98.53	366.36	261.60	128.46	105.59	22.87	5.617		
2,400.00	2,340.55	2,409.08	2,338.61	12.12	11.82	-98.82	385.95	277.67	134.12	110.25	23.88	5.617		
2,500.00	2,437.04	2,509.24	2,435.18	12.64	12.32	-99.08	405.53	293.74	139.79	114.91	24.89	5.617		
2,600.00	2,533.53	2,609.40	2,531.75	13.15	12.82	-99.32	425.12	309.81	145.46	119.57	25.90	5.617		
2,700.00	2,630.02	2,709.57	2,628.31	13.67	13.32	-99.55	444.70	325.88	151.14	124.22	26.91	5.616		
2,800.00	2,726.50	2,809.73	2,724.88	14.19	13.83	-99.76	464.29	341.95	156.82	128.88	27.93	5.614		
2,900.00	2,822.99	2,909.89	2,821.45	14.72	14.33	-99.95	483.88	358.02	162.49	133.54	28.96	5.612		
3,000.00	2,919.48	2,989.94	2,918.02	15.24	14.74	-100.13	503.46	374.09	168.17	138.30	29.88	5.629		
3,100.00	3,015.97	3,089.78	3,014.59	15.76	15.24	-100.30	523.05	390.16	173.86	142.95	30.90	5.626		
3,200.00	3,112.46	3,189.62	3,111.16	16.29	15.75	-100.46	542.63	406.23	179.54	147.61	31.93	5.623		
3,300.00	3,208.95	3,289.46	3,207.73	16.81	16.26	-100.61	562.22	422.30	185.22	152.27	32.96	5.620		
3,400.00	3,305.44	3,389.29	3,304.30	17.34	16.77	-100.75	581.80	438.37	190.91	156.92	33.99	5.617		
3,500.00	3,401.92	3,489.13	3,400.87	17.87	17.28	-100.88	601.39	454.44	196.60	161.58	35.02	5.614		
3,600.00	3,498.41	3,588.97	3,497.44	18.40	17.79	-101.01	620.97	470.51	202.28	166.23	36.05	5.611		
3,700.00	3,594.90	3,688.81	3,594.01	18.93	18.30	-101.13	640.56	486.58	207.97	170.89	37.08	5.608		
3,800.00	3,691.39	3,788.64	3,690.58	19.46	18.81	-101.24	660.14	502.65	213.66	175.54	38.12	5.605		
3,900.00	3,787.88	3,888.48	3,787.15	19.99	19.32	-101.34	679.73	518.72	219.35	180.20	39.15	5.602		
4,000.00	3,884.37	3,988.32	3,883.72	20.52	19.83	-101.44	699.31	534.79	225.04	184.85	40.19	5.599		
4,100.00	3,980.85	4,088.15	3,980.28	21.05	20.35	-101.54	718.90	550.86	230.74	189.51	41.23	5.597		
4,200.00	4,077.34	4,187.99	4,076.85	21.58	20.86	-101.63	738.48	566.93	236.43	194.16	42.27	5.594		
4,300.00	4,173.83	4,287.83	4,173.42	22.11	21.38	-101.71	758.07	583.00	242.12	198.82	43.31	5.591		
4,390.25	4,260.91	4,377.93	4,260.58	22.59	21.84	-101.79	775.74	597.51	247.26	203.02	44.24	5.589		
4,400.00	4,270.32	4,387.67	4,269.99	22.64	21.89	-101.80	777.65	599.08	247.81	203.47	44.35	5.588		
4,500.00	4,367.33	4,487.51	4,366.57	23.16	22.40	-101.52	797.24	615.15	253.08	207.70	45.38	5.577		
4,600.00	4,465.13	4,587.27	4,463.06	23.65	22.92	-100.49	816.81	631.20	257.71	211.31	46.41	5.554		
4,700.00	4,563.60	4,686.83	4,559.36	24.12	23.43	-98.73	836.34	647.23	261.90	214.48	47.42	5.523		
4,800.00	4,662.61	4,786.06	4,655.35	24.56	23.95	-96.31	855.81	663.20	265.94	217.53	48.41	5.494		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32N-6B-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,884.85	4,750.90	24.98	24.46	-93.25	875.19	679.10	270.27	220.90	49.37	5.474		
5,000.00	4,861.80	4,983.08	4,845.91	25.38	24.96	-89.63	894.46	694.92	275.41	225.11	50.29	5.476		
5,100.00	4,961.73	5,080.62	4,940.26	25.76	25.47	-85.52	913.59	710.62	281.96	230.80	51.16	5.511		
5,151.69	5,013.42	5,130.73	4,988.73	25.95	25.73	-31.35	923.42	718.68	286.11	234.52	51.59	5.546		
5,200.00	5,061.73	5,177.46	5,033.93	26.13	25.97	-29.14	932.59	726.20	290.51	238.53	51.98	5.589		
5,300.00	5,161.73	5,274.18	5,127.49	26.49	26.47	-24.76	951.56	741.77	301.00	248.24	52.76	5.705		
5,400.00	5,261.73	5,370.91	5,221.05	26.86	26.97	-20.68	970.54	757.34	313.20	259.68	53.52	5.852		
5,500.00	5,361.73	5,467.64	5,314.61	27.23	27.47	-16.91	989.51	772.91	326.91	272.65	54.26	6.024		
5,600.00	5,461.73	5,564.36	5,408.17	27.60	27.97	-13.44	1,008.49	788.48	341.96	286.96	55.00	6.217		
5,700.00	5,561.73	5,661.09	5,501.73	27.97	28.48	-10.27	1,027.46	804.05	358.18	302.44	55.74	6.426		
5,800.00	5,661.73	5,757.82	5,595.30	28.35	28.98	-7.37	1,046.44	819.62	375.41	318.94	56.48	6.647		
5,900.00	5,761.73	5,854.54	5,688.86	28.72	29.48	-4.72	1,065.41	835.19	393.53	336.31	57.22	6.878		
6,000.00	5,861.73	5,951.27	5,782.42	29.10	29.98	-2.30	1,084.39	850.76	412.41	354.45	57.97	7.115		
6,100.00	5,961.73	6,048.00	5,875.98	29.48	30.48	-0.09	1,103.36	866.33	431.96	373.24	58.72	7.356		
6,200.00	6,061.73	6,144.72	5,969.54	29.86	30.98	1.93	1,122.34	881.90	452.09	392.61	59.48	7.600		
6,300.00	6,161.73	6,241.45	6,063.10	30.25	31.49	3.78	1,141.31	897.47	472.72	412.47	60.25	7.846		
6,400.00	6,261.73	6,338.18	6,156.66	30.63	31.99	5.48	1,160.29	913.04	493.80	432.77	61.03	8.091		
6,451.69	6,313.42	6,388.18	6,205.02	30.83	32.25	6.30	1,170.10	921.09	504.85	443.41	61.43	8.218		
6,500.00	6,361.68	6,440.29	6,255.64	31.01	32.51	98.69	1,180.30	928.07	515.34	453.49	61.86	8.331		
6,550.00	6,411.34	6,496.56	6,310.75	31.20	32.77	98.60	1,191.19	930.92	526.20	463.90	62.29	8.447		
6,600.00	6,460.39	6,553.82	6,366.90	31.38	33.01	98.44	1,202.07	928.73	536.93	474.22	62.72	8.561		
6,650.00	6,508.54	6,612.09	6,423.66	31.58	33.22	98.21	1,212.83	921.24	547.46	484.34	63.12	8.673		
6,700.00	6,555.48	6,671.34	6,480.48	31.78	33.42	97.93	1,223.35	908.25	557.69	494.17	63.52	8.780		
6,750.00	6,600.93	6,731.54	6,536.79	31.98	33.63	97.59	1,233.53	889.61	567.53	503.63	63.90	8.881		
6,800.00	6,644.61	6,792.65	6,591.96	32.20	33.83	97.20	1,243.23	865.25	576.89	512.61	64.29	8.974		
6,850.00	6,686.25	6,854.57	6,645.31	32.44	34.04	96.76	1,252.32	835.22	585.70	521.01	64.69	9.054		
6,900.00	6,725.58	6,917.22	6,696.16	32.68	34.26	96.27	1,260.68	799.64	593.87	528.75	65.12	9.119		
6,950.00	6,762.38	6,980.47	6,743.81	32.96	34.50	95.74	1,268.17	758.76	601.34	535.73	65.61	9.165		
7,000.00	6,796.41	7,044.16	6,787.57	33.25	34.76	95.16	1,274.69	712.97	608.05	541.87	66.18	9.188		
7,050.00	6,827.46	7,108.15	6,826.82	33.58	35.07	94.54	1,280.13	662.77	613.94	547.08	66.86	9.182		
7,100.00	6,855.34	7,172.25	6,861.02	33.93	35.44	93.89	1,284.41	608.75	618.99	551.31	67.68	9.146		
7,150.00	6,879.88	7,236.28	6,889.70	34.33	35.86	93.21	1,287.47	551.63	623.15	554.51	68.64	9.079		
7,200.00	6,900.93	7,300.04	6,912.55	34.76	36.34	92.50	1,289.30	492.15	626.42	556.67	69.75	8.982		
7,250.00	6,918.36	7,363.36	6,929.36	35.23	36.90	91.78	1,289.87	431.13	628.78	557.78	71.00	8.856		
7,300.00	6,932.05	7,426.08	6,940.08	35.74	37.51	91.04	1,289.22	369.37	630.26	557.88	72.38	8.708		
7,350.00	6,941.94	7,488.02	6,944.77	36.29	38.17	90.29	1,287.39	307.65	630.85	557.01	73.84	8.543		
7,400.00	6,947.94	7,542.28	6,944.72	36.87	38.81	89.69	1,284.98	253.46	630.76	555.52	75.24	8.383		
7,450.00	6,950.04	7,607.80	6,944.26	37.47	39.62	89.48	1,282.67	203.59	630.62	553.87	76.75	8.216		
7,458.56	6,950.00	7,600.75	6,944.19	37.58	39.52	89.47	1,282.28	195.04	630.59	553.83	76.76	8.215		
7,500.00	6,949.56	7,642.20	6,943.81	38.11	40.10	89.48	1,280.36	153.65	630.46	552.56	77.90	8.093		
7,600.00	6,948.48	7,742.20	6,942.90	39.51	41.55	89.49	1,275.75	53.76	630.13	549.31	80.82	7.797		
7,700.00	6,947.40	7,842.20	6,941.99	41.06	43.14	89.51	1,271.13	-46.13	629.80	545.78	84.02	7.496		
7,800.00	6,946.32	7,942.19	6,941.07	42.74	44.87	89.52	1,266.51	-146.02	629.47	542.00	87.47	7.196		
7,900.00	6,945.24	8,042.19	6,940.16	44.55	46.70	89.54	1,261.89	-245.90	629.15	538.00	91.15	6.902		
8,000.00	6,944.16	8,142.19	6,939.25	46.46	48.64	89.55	1,257.28	-345.79	628.82	533.80	95.02	6.618		
8,100.00	6,943.08	8,242.19	6,938.34	48.47	50.67	89.57	1,252.66	-445.68	628.49	529.42	99.07	6.344		
8,200.00	6,942.01	8,342.19	6,937.43	50.55	52.77	89.58	1,248.04	-545.57	628.17	524.89	103.27	6.083		
8,300.00	6,940.93	8,442.19	6,936.52	52.71	54.94	89.60	1,243.43	-645.46	627.84	520.23	107.61	5.834		
8,400.00	6,939.85	8,542.19	6,935.60	54.93	57.16	89.61	1,238.81	-745.35	627.51	515.45	112.07	5.599		
8,500.00	6,938.77	8,642.19	6,934.69	57.20	59.44	89.63	1,234.19	-845.24	627.19	510.56	116.63	5.378		
8,600.00	6,937.69	8,742.19	6,933.78	59.53	61.77	89.64	1,229.57	-945.12	626.86	505.57	121.29	5.168		
8,700.00	6,936.61	8,842.19	6,932.87	61.89	64.14	89.66	1,224.96	-1,045.01	626.53	500.50	126.03	4.971		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32N-6B-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	8,942.19	6,931.96	64.30	66.54	89.67	1,220.34	-1,144.90	626.21	495.36	130.84	4.786		
8,900.00	6,934.46	9,042.19	6,931.05	66.74	68.98	89.69	1,215.72	-1,244.79	625.88	490.15	135.73	4.611		
9,000.00	6,933.38	9,142.19	6,930.13	69.21	71.45	89.70	1,211.11	-1,344.68	625.55	484.89	140.67	4.447		
9,100.00	6,932.30	9,242.19	6,929.22	71.71	73.95	89.72	1,206.49	-1,444.57	625.23	479.56	145.66	4.292		
9,200.00	6,931.22	9,342.19	6,928.31	74.23	76.47	89.74	1,201.87	-1,544.46	624.90	474.19	150.71	4.146		
9,300.00	6,930.14	9,442.18	6,927.40	76.78	79.01	89.75	1,197.26	-1,644.34	624.57	468.78	155.79	4.009		
9,400.00	6,929.06	9,542.18	6,926.49	79.34	81.57	89.77	1,192.64	-1,744.23	624.25	463.33	160.92	3.879		
9,500.00	6,927.99	9,642.18	6,925.58	81.93	84.15	89.78	1,188.02	-1,844.12	623.92	457.84	166.08	3.757		
9,600.00	6,926.91	9,742.18	6,924.66	84.53	86.74	89.80	1,183.40	-1,944.01	623.59	452.32	171.28	3.641		
9,700.00	6,925.83	9,842.18	6,923.75	87.14	89.35	89.81	1,178.79	-2,043.90	623.27	446.77	176.50	3.531		
9,800.00	6,924.75	9,942.18	6,922.84	89.77	91.97	89.83	1,174.17	-2,143.79	622.94	441.19	181.75	3.427		
9,900.00	6,923.67	10,042.18	6,921.93	92.41	94.61	89.84	1,169.55	-2,243.68	622.62	435.59	187.03	3.329		
10,000.00	6,922.59	10,142.18	6,921.02	95.07	97.26	89.86	1,164.94	-2,343.56	622.29	429.96	192.33	3.236		
10,100.00	6,921.51	10,242.18	6,920.10	97.73	99.91	89.87	1,160.32	-2,443.45	621.96	424.32	197.65	3.147		
10,200.00	6,920.44	10,342.18	6,919.19	100.40	102.58	89.89	1,155.70	-2,543.34	621.64	418.65	202.98	3.062		
10,300.00	6,919.36	10,442.18	6,918.28	103.08	105.26	89.90	1,151.08	-2,643.23	621.31	412.97	208.34	2.982		
10,400.00	6,918.28	10,542.18	6,917.37	105.77	107.94	89.92	1,146.47	-2,743.12	620.99	407.27	213.71	2.906		
10,500.00	6,917.20	10,642.18	6,916.46	108.47	110.63	89.93	1,141.85	-2,843.01	620.66	401.56	219.10	2.833		
10,600.00	6,916.12	10,742.18	6,915.55	111.18	113.33	89.95	1,137.23	-2,942.90	620.33	395.83	224.51	2.763		
10,700.00	6,915.04	10,842.18	6,914.63	113.89	116.04	89.96	1,132.62	-3,042.78	620.01	390.09	229.92	2.697		
10,800.00	6,913.96	10,942.17	6,913.72	116.61	118.75	89.98	1,128.00	-3,142.67	619.68	384.33	235.35	2.633		
10,900.00	6,912.89	11,042.17	6,912.81	119.33	121.47	90.00	1,123.38	-3,242.56	619.36	378.57	240.79	2.572		
11,000.00	6,911.81	11,142.17	6,911.90	122.06	124.19	90.01	1,118.76	-3,342.45	619.03	372.79	246.24	2.514		
11,100.00	6,910.73	11,242.17	6,910.99	124.79	126.92	90.03	1,114.15	-3,442.34	618.71	367.01	251.70	2.458		
11,200.00	6,909.65	11,342.17	6,910.08	127.53	129.65	90.04	1,109.53	-3,542.23	618.38	361.21	257.17	2.405		
11,300.00	6,908.57	11,442.17	6,909.16	130.27	132.39	90.06	1,104.91	-3,642.11	618.06	355.41	262.65	2.353		
11,400.00	6,907.49	11,542.17	6,908.25	133.02	135.13	90.07	1,100.30	-3,742.00	617.73	349.60	268.13	2.304		
11,500.00	6,906.41	11,642.17	6,907.34	135.77	137.88	90.09	1,095.68	-3,841.89	617.40	343.78	273.63	2.256		
11,600.00	6,905.34	11,742.17	6,906.43	138.52	140.63	90.10	1,091.06	-3,941.78	617.08	337.95	279.13	2.211		
11,700.00	6,904.26	11,842.17	6,905.52	141.28	143.38	90.12	1,086.44	-4,041.67	616.75	332.12	284.64	2.167		
11,800.00	6,903.18	11,942.17	6,904.61	144.04	146.14	90.13	1,081.83	-4,141.56	616.43	326.28	290.15	2.125		
11,900.00	6,902.10	12,042.17	6,903.69	146.80	148.90	90.15	1,077.21	-4,241.45	616.10	320.43	295.67	2.084		
12,000.00	6,901.02	12,142.17	6,902.78	149.57	151.66	90.17	1,072.59	-4,341.33	615.78	314.58	301.20	2.044		
12,100.00	6,899.94	12,242.17	6,901.87	152.34	154.42	90.18	1,067.98	-4,441.22	615.45	308.72	306.73	2.007		
12,200.00	6,898.87	12,342.17	6,900.96	155.11	157.19	90.20	1,063.36	-4,541.11	615.13	302.86	312.27	1.970		
12,300.00	6,897.79	12,442.16	6,900.05	157.89	159.96	90.21	1,058.74	-4,641.00	614.80	297.00	317.81	1.935		
12,400.00	6,896.71	12,542.16	6,899.14	160.66	162.73	90.23	1,054.13	-4,740.89	614.48	291.12	323.35	1.900		
12,500.00	6,895.63	12,642.16	6,898.22	163.44	165.51	90.24	1,049.51	-4,840.78	614.15	285.25	328.90	1.867		
12,600.00	6,894.55	12,742.16	6,897.31	166.22	168.28	90.26	1,044.89	-4,940.67	613.83	279.37	334.46	1.835		
12,700.00	6,893.47	12,842.16	6,896.40	169.00	171.06	90.28	1,040.27	-5,040.55	613.50	273.49	340.02	1.804		
12,800.00	6,892.39	12,942.16	6,895.49	171.79	173.84	90.29	1,035.66	-5,140.44	613.18	267.60	345.58	1.774		
12,900.00	6,891.32	13,042.16	6,894.58	174.57	176.62	90.31	1,031.04	-5,240.33	612.85	261.71	351.14	1.745		
13,000.00	6,890.24	13,142.16	6,893.67	177.36	179.41	90.32	1,026.42	-5,340.22	612.53	255.81	356.71	1.717		
13,100.00	6,889.16	13,242.16	6,892.75	180.15	182.19	90.34	1,021.81	-5,440.11	612.20	249.92	362.29	1.690		
13,200.00	6,888.08	13,342.16	6,891.84	182.94	184.98	90.35	1,017.19	-5,540.00	611.88	244.02	367.86	1.663		
13,300.00	6,887.00	13,442.16	6,890.93	185.74	187.77	90.37	1,012.57	-5,639.89	611.55	238.11	373.44	1.638		
13,400.00	6,885.92	13,542.16	6,890.02	188.53	190.56	90.39	1,007.95	-5,739.77	611.23	232.21	379.02	1.613		
13,500.00	6,884.84	13,642.16	6,889.11	191.32	193.35	90.40	1,003.34	-5,839.66	610.91	226.30	384.61	1.588		
13,600.00	6,883.77	13,742.16	6,888.20	194.12	196.14	90.42	998.72	-5,939.55	610.58	220.39	390.19	1.565		
13,700.00	6,882.69	13,842.16	6,887.28	196.92	198.94	90.43	994.10	-6,039.44	610.26	214.47	395.78	1.542		
13,800.00	6,881.61	13,942.15	6,886.37	199.72	201.73	90.45	989.49	-6,139.33	609.93	208.56	401.37	1.520		
13,900.00	6,880.53	14,042.15	6,885.46	202.52	204.53	90.47	984.87	-6,239.22	609.61	202.64	406.97	1.498	Level 3	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32N-6B-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,879.45	14,142.15	6,884.55	205.32	207.33	90.48	980.25	-6,339.11	609.28	196.72	412.56	1.477	Level 3	
14,100.00	6,878.37	14,242.15	6,883.64	208.12	210.13	90.50	975.63	-6,438.99	608.96	190.80	418.16	1.456	Level 3	
14,200.00	6,877.29	14,342.15	6,882.73	210.92	212.93	90.51	971.02	-6,538.88	608.64	184.88	423.76	1.436	Level 3	
14,300.00	6,876.22	14,442.15	6,881.81	213.73	215.73	90.53	966.40	-6,638.77	608.31	178.95	429.36	1.417	Level 3	
14,400.00	6,875.14	14,542.15	6,880.90	216.53	218.53	90.55	961.78	-6,738.66	607.99	173.02	434.96	1.398	Level 3	
14,500.00	6,874.06	14,642.15	6,879.99	219.34	221.33	90.56	957.17	-6,838.55	607.66	167.09	440.57	1.379	Level 3	
14,600.00	6,872.98	14,742.15	6,879.08	222.15	224.14	90.58	952.55	-6,938.44	607.34	161.16	446.18	1.361	Level 3	
14,700.00	6,871.90	14,842.15	6,878.17	224.95	226.94	90.59	947.93	-7,038.32	607.01	155.23	451.79	1.344	Level 3	
14,800.00	6,870.82	14,942.15	6,877.26	227.76	229.75	90.61	943.31	-7,138.21	606.69	149.30	457.40	1.326	Level 3	
14,900.00	6,869.75	15,042.15	6,876.34	230.57	232.55	90.63	938.70	-7,238.10	606.37	143.36	463.01	1.310	Level 3	
15,000.00	6,868.67	15,142.15	6,875.43	233.38	235.36	90.64	934.08	-7,337.99	606.04	137.42	468.62	1.293	Level 3	
15,100.00	6,867.59	15,242.15	6,874.52	236.19	238.17	90.66	929.46	-7,437.88	605.72	131.49	474.23	1.277	Level 3	
15,200.00	6,866.51	15,342.14	6,873.61	239.00	240.98	90.67	924.85	-7,537.77	605.40	125.55	479.85	1.262	Level 3	
15,300.00	6,865.43	15,442.14	6,872.70	241.81	243.78	90.69	920.23	-7,637.66	605.07	119.61	485.47	1.246	Level 2	
15,400.00	6,864.35	15,542.14	6,871.78	244.63	246.59	90.71	915.61	-7,737.54	604.75	113.66	491.08	1.231	Level 2	
15,500.00	6,863.27	15,642.14	6,870.87	247.44	249.40	90.72	911.00	-7,837.43	604.43	107.72	496.70	1.217	Level 2	
15,599.33	6,862.20	15,741.47	6,869.97	250.24	252.20	90.74	906.41	-7,936.65	604.10	101.82	502.29	1.203	Level 2, SF	
15,600.00	6,862.20	15,738.53	6,869.99	250.25	252.11	90.74	906.54	-7,933.71	604.11	101.90	502.21	1.203	Level 2	
15,618.10	6,862.00	15,738.53	6,869.99	250.76	252.11	90.74	906.54	-7,933.71	604.43	102.05	502.39	1.203	Level 2	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32N-6C-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	6.38	14.94	1.67	15.03					
100.00	100.00	100.00	100.00	3.28	3.28	6.38	14.94	1.67	15.03	8.46	6.57	2.288		
200.00	200.00	200.00	200.00	3.34	3.34	6.38	14.94	1.67	15.03	8.36	6.67	2.252		
300.00	299.98	299.98	299.98	3.44	3.44	-50.68	14.94	1.67	13.86	6.97	6.89	2.012		
400.00	399.84	399.64	399.62	3.61	3.60	-64.08	16.12	2.94	12.09	4.88	7.21	1.677		
497.00	496.47	496.43	496.28	3.81	3.80	-80.61	19.53	6.59	11.45	3.85	7.59	1.507 CC		
500.00	499.45	499.42	499.26	3.81	3.81	-81.15	19.67	6.74	11.45	3.84	7.61	1.505		
600.00	598.70	599.32	598.78	4.06	4.05	-98.38	25.59	13.10	12.19	4.10	8.09	1.506		
700.00	697.47	699.34	698.05	4.35	4.33	-112.13	33.89	21.99	14.14	5.49	8.65	1.634		
800.00	795.62	799.48	796.95	4.66	4.64	-121.62	44.56	33.43	16.95	7.67	9.28	1.826		
900.00	893.06	899.73	895.36	5.01	4.97	-127.77	57.59	47.41	20.32	10.35	9.98	2.037		
961.44	952.51	961.10	955.38	5.25	5.19	-131.60	66.32	56.78	22.96	12.54	10.42	2.204		
1,000.00	989.71	1,000.41	993.03	5.40	5.33	-134.28	71.80	62.65	24.94	14.23	10.71	2.329		
1,100.00	1,086.20	1,100.58	1,090.66	5.81	5.72	-139.57	86.00	77.88	30.28	18.81	11.47	2.639		
1,200.00	1,182.69	1,200.76	1,188.28	6.24	6.12	-143.26	100.20	93.11	35.80	23.54	12.26	2.920		
1,300.00	1,279.18	1,299.07	1,285.91	6.69	6.52	-145.95	114.40	108.33	41.43	28.36	13.06	3.171		
1,400.00	1,375.67	1,401.11	1,383.54	7.15	6.96	-147.99	128.60	123.56	47.13	33.22	13.90	3.390		
1,500.00	1,472.15	1,501.28	1,481.17	7.62	7.39	-149.60	142.81	138.79	52.87	38.12	14.75	3.585		
1,600.00	1,568.64	1,601.45	1,578.80	8.10	7.83	-150.88	157.01	154.02	58.64	43.04	15.61	3.758		
1,700.00	1,665.13	1,701.63	1,676.43	8.59	8.28	-151.94	171.21	169.25	64.45	47.97	16.48	3.911		
1,800.00	1,761.62	1,801.80	1,774.06	9.08	8.73	-152.82	185.41	184.48	70.26	52.91	17.36	4.048		
1,900.00	1,858.11	1,901.98	1,871.69	9.58	9.19	-153.57	199.61	199.71	76.10	57.85	18.25	4.170		
2,000.00	1,954.60	2,002.15	1,969.32	10.08	9.65	-154.21	213.81	214.94	81.94	62.79	19.15	4.279		
2,100.00	2,051.09	2,102.33	2,066.95	10.59	10.12	-154.76	228.01	230.17	87.79	67.74	20.05	4.378		
2,200.00	2,147.57	2,202.50	2,164.58	11.09	10.59	-155.25	242.21	245.40	93.65	72.69	20.96	4.467		
2,300.00	2,244.06	2,302.68	2,262.21	11.61	11.06	-155.68	256.42	260.62	99.52	77.64	21.88	4.548		
2,400.00	2,340.55	2,402.85	2,359.84	12.12	11.53	-156.06	270.62	275.85	105.39	82.59	22.80	4.622		
2,500.00	2,437.04	2,503.03	2,457.47	12.64	12.01	-156.40	284.82	291.08	111.27	87.54	23.73	4.690		
2,600.00	2,533.53	2,603.20	2,555.09	13.15	12.48	-156.70	299.02	306.31	117.15	92.49	24.65	4.752		
2,700.00	2,630.02	2,703.38	2,652.72	13.67	12.96	-156.98	313.22	321.54	123.03	97.44	25.58	4.809		
2,800.00	2,726.50	2,803.55	2,750.35	14.19	13.44	-157.23	327.42	336.77	128.91	102.39	26.52	4.861		
2,900.00	2,822.99	2,903.73	2,847.98	14.72	13.92	-157.46	341.62	352.00	134.80	107.34	27.46	4.910		
3,000.00	2,919.48	2,996.10	2,945.61	15.24	14.37	-157.67	355.82	367.23	140.69	112.33	28.36	4.961		
3,100.00	3,015.97	3,095.92	3,043.24	15.76	14.85	-157.87	370.03	382.46	146.58	117.28	29.30	5.003		
3,200.00	3,112.46	3,195.75	3,140.87	16.29	15.33	-158.05	384.23	397.69	152.47	122.23	30.24	5.042		
3,300.00	3,208.95	3,304.43	3,238.50	16.81	15.86	-158.21	398.43	412.91	158.36	127.14	31.22	5.072		
3,400.00	3,305.44	3,395.40	3,336.13	17.34	16.30	-158.37	412.63	428.14	164.26	132.13	32.13	5.113		
3,500.00	3,401.92	3,495.22	3,433.76	17.87	16.78	-158.51	426.83	443.37	170.15	137.08	33.07	5.145		
3,600.00	3,498.41	3,604.95	3,531.39	18.40	17.31	-158.64	441.03	458.60	176.05	141.98	34.07	5.168		
3,700.00	3,594.90	3,705.13	3,629.02	18.93	17.80	-158.77	455.23	473.83	181.94	146.93	35.02	5.196		
3,800.00	3,691.39	3,805.30	3,726.65	19.46	18.29	-158.88	469.43	489.06	187.84	151.88	35.97	5.223		
3,900.00	3,787.88	3,905.48	3,824.28	19.99	18.78	-158.99	483.64	504.29	193.74	156.82	36.92	5.248		
4,000.00	3,884.37	3,994.35	3,921.90	20.52	19.21	-159.10	497.84	519.52	199.64	161.82	37.82	5.279		
4,100.00	3,980.85	4,105.82	4,019.53	21.05	19.76	-159.19	512.04	534.75	205.54	166.71	38.83	5.294		
4,200.00	4,077.34	4,206.00	4,117.16	21.58	20.25	-159.28	526.24	549.98	211.44	171.66	39.78	5.315		
4,300.00	4,173.83	4,306.17	4,214.79	22.11	20.74	-159.37	540.44	565.20	217.34	176.60	40.74	5.335		
4,390.25	4,260.91	4,383.92	4,302.90	22.59	21.12	-159.45	553.26	578.95	222.67	181.13	41.54	5.360		
4,400.00	4,270.32	4,406.35	4,312.42	22.64	21.23	-159.46	554.64	580.43	223.23	181.53	41.69	5.354		
4,500.00	4,367.33	4,506.43	4,410.14	23.16	21.72	-159.38	568.86	595.68	227.18	184.53	42.65	5.327		
4,600.00	4,465.13	4,593.55	4,507.92	23.65	22.14	-158.97	583.08	610.93	227.87	184.34	43.53	5.235		
4,700.00	4,563.60	4,693.47	4,605.64	24.12	22.63	-158.22	597.29	626.17	225.33	180.86	44.47	5.067		
4,800.00	4,662.61	4,806.79	4,703.19	24.56	23.19	-157.07	611.48	641.39	219.61	174.14	45.47	4.830		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32N-6C-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,892.65	4,800.44	24.98	23.61	-155.46	625.63	656.56	210.80	164.46	46.34	4.549		
5,000.00	4,861.80	5,008.34	4,897.28	25.38	24.18	-153.24	639.71	671.66	199.05	151.70	47.35	4.204		
5,100.00	4,961.73	5,109.87	4,993.58	25.76	24.68	-150.20	653.72	686.69	184.58	136.27	48.31	3.821		
5,151.69	5,013.42	5,140.78	5,043.12	25.95	24.83	-96.31	660.93	694.41	176.16	127.44	48.71	3.616		
5,200.00	5,061.73	5,188.03	5,089.32	26.13	25.06	-94.27	667.65	701.62	168.12	118.93	49.19	3.418		
5,300.00	5,161.73	5,285.83	5,184.97	26.49	25.55	-89.40	681.56	716.54	152.25	102.05	50.21	3.033		
5,400.00	5,261.73	5,383.63	5,280.62	26.86	26.03	-83.49	695.48	731.46	137.72	86.43	51.29	2.685		
5,500.00	5,361.73	5,481.43	5,376.27	27.23	26.51	-76.31	709.39	746.38	125.00	72.54	52.45	2.383		
5,600.00	5,461.73	5,579.23	5,471.92	27.60	26.99	-67.72	723.30	761.30	114.68	61.00	53.68	2.136		
5,700.00	5,561.73	5,677.03	5,567.57	27.97	27.47	-57.78	737.22	776.22	107.46	52.53	54.94	1.956		
5,800.00	5,661.73	5,774.83	5,663.22	28.35	27.95	-46.84	751.13	791.14	104.00	47.87	56.13	1.853		
5,834.17	5,695.90	5,808.24	5,695.90	28.47	28.12	-43.00	755.88	796.24	103.76	47.26	56.50	1.836		
5,900.00	5,761.73	5,872.63	5,758.86	28.72	28.44	-35.62	765.04	806.06	104.66	47.50	57.16	1.831		
6,000.00	5,861.73	5,970.43	5,854.51	29.10	28.92	-24.94	778.96	820.98	109.37	51.38	57.99	1.886		
6,100.00	5,961.73	6,068.23	5,950.16	29.48	29.40	-15.40	792.87	835.90	117.64	58.96	58.68	2.005		
6,200.00	6,061.73	6,166.03	6,045.81	29.86	29.88	-7.27	806.78	850.82	128.80	69.50	59.30	2.172		
6,300.00	6,161.73	6,263.83	6,141.46	30.25	30.36	-0.51	820.69	865.74	142.15	82.25	59.90	2.373		
6,400.00	6,261.73	6,361.63	6,237.11	30.63	30.85	5.05	834.61	880.66	157.15	96.63	60.52	2.597		
6,451.69	6,313.42	6,412.30	6,286.67	30.83	31.10	7.53	841.82	888.39	165.40	104.55	60.85	2.718		
6,500.00	6,361.68	6,462.16	6,335.71	31.01	31.33	101.42	848.85	893.86	173.30	112.12	61.19	2.812		
6,550.00	6,411.34	6,514.44	6,387.46	31.20	31.56	102.69	856.07	895.42	181.61	120.10	61.51	2.953		
6,600.00	6,460.39	6,567.43	6,439.87	31.38	31.76	103.76	863.19	892.62	189.95	128.16	61.80	3.074		
6,650.00	6,508.54	6,621.13	6,492.60	31.58	31.96	104.65	870.14	885.32	198.25	136.21	62.04	3.195		
6,700.00	6,555.48	6,675.55	6,545.25	31.78	32.16	105.38	876.86	873.38	206.41	144.17	62.23	3.317		
6,750.00	6,600.93	6,730.70	6,597.41	31.98	32.36	105.97	883.30	856.70	214.34	151.97	62.37	3.437		
6,800.00	6,644.61	6,786.57	6,648.61	32.20	32.56	106.41	889.38	835.25	221.98	159.52	62.45	3.554		
6,850.00	6,686.25	6,843.12	6,698.37	32.44	32.78	106.74	895.04	809.01	229.23	166.74	62.49	3.668		
6,900.00	6,725.58	6,900.34	6,746.19	32.68	33.00	106.95	900.21	778.06	236.03	173.51	62.52	3.775		
6,950.00	6,762.38	6,958.18	6,791.56	32.96	33.25	107.07	904.83	742.53	242.31	179.76	62.56	3.874		
7,000.00	6,796.41	7,016.57	6,833.96	33.25	33.52	107.08	908.84	702.60	248.01	185.36	62.65	3.959		
7,050.00	6,827.46	7,075.46	6,872.89	33.58	33.83	107.02	912.18	658.58	253.07	190.22	62.84	4.027		
7,100.00	6,855.34	7,134.75	6,907.86	33.93	34.18	106.86	914.79	610.80	257.44	194.26	63.17	4.075		
7,150.00	6,879.88	7,194.36	6,938.45	34.33	34.58	106.63	916.65	559.69	261.08	197.40	63.69	4.099		
7,200.00	6,900.93	7,254.18	6,964.27	34.76	35.03	106.33	917.71	505.76	263.97	199.56	64.41	4.098		
7,250.00	6,918.36	7,314.11	6,985.00	35.23	35.56	105.96	917.97	449.56	266.08	200.69	65.38	4.069		
7,300.00	6,932.05	7,374.03	7,000.42	35.74	36.13	105.52	917.41	391.68	267.39	200.81	66.58	4.016		
7,350.00	6,941.94	7,433.83	7,010.36	36.29	36.76	105.02	916.05	332.75	267.92	199.91	68.01	3.940		
7,400.00	6,947.94	7,493.40	7,014.78	36.87	37.42	104.45	913.91	273.40	267.66	198.04	69.62	3.845		
7,450.00	6,950.04	7,547.19	7,014.72	37.47	38.07	104.02	911.41	219.68	266.94	195.80	71.14	3.752		
7,458.56	6,950.00	7,555.74	7,014.63	37.58	38.18	104.02	911.00	211.13	266.89	195.53	71.35	3.740		
7,500.00	6,949.56	7,597.19	7,014.23	38.11	38.70	104.04	909.02	169.74	266.70	194.32	72.39	3.684		
7,600.00	6,948.48	7,702.82	7,013.27	39.51	40.19	104.09	904.25	69.86	266.27	191.05	75.22	3.540		
7,700.00	6,947.40	7,802.82	7,012.30	41.06	41.76	104.14	899.48	-30.02	265.83	187.56	78.27	3.396		
7,800.00	6,946.32	7,902.82	7,011.34	42.74	43.45	104.18	894.71	-129.90	265.40	183.81	81.58	3.253		
7,900.00	6,945.24	8,002.82	7,010.37	44.55	45.26	104.23	889.94	-229.78	264.96	179.84	85.12	3.113		
8,000.00	6,944.16	8,102.82	7,009.41	46.46	47.18	104.28	885.17	-329.66	264.52	175.67	88.85	2.977		
8,100.00	6,943.08	8,202.82	7,008.44	48.47	49.18	104.33	880.40	-429.54	264.09	171.33	92.76	2.847		
8,200.00	6,942.01	8,297.18	7,007.48	50.55	51.15	104.38	875.63	-529.42	263.65	166.95	96.71	2.726		
8,300.00	6,940.93	8,402.82	7,006.52	52.71	53.42	104.43	870.86	-629.30	263.22	162.20	101.02	2.606		
8,400.00	6,939.85	8,497.18	7,005.55	54.93	55.51	104.48	866.09	-729.18	262.78	157.57	105.21	2.498		
8,500.00	6,938.77	8,602.83	7,004.59	57.20	57.91	104.53	861.32	-829.06	262.35	152.60	109.75	2.390		
8,600.00	6,937.69	8,702.83	7,003.62	59.53	60.22	104.58	856.55	-928.94	261.91	147.65	114.26	2.292		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32N-6C-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	6,936.61	8,802.83	7,002.66	61.89	62.59	104.63	851.78	-1,028.82	261.48	142.63	118.85	2.200		
8,800.00	6,935.54	8,902.83	7,001.69	64.30	64.99	104.68	847.01	-1,128.70	261.04	137.54	123.51	2.114		
8,900.00	6,934.46	9,002.83	7,000.73	66.74	67.42	104.74	842.24	-1,228.58	260.61	132.38	128.23	2.032		
9,000.00	6,933.38	9,102.83	6,999.76	69.21	69.88	104.79	837.47	-1,328.46	260.18	127.17	133.01	1.956		
9,100.00	6,932.30	9,202.83	6,998.80	71.71	72.38	104.84	832.70	-1,428.34	259.74	121.90	137.84	1.884		
9,200.00	6,931.22	9,302.83	6,997.83	74.23	74.89	104.89	827.93	-1,528.23	259.31	116.60	142.71	1.817		
9,300.00	6,930.14	9,402.84	6,996.87	76.78	77.43	104.94	823.16	-1,628.11	258.88	111.25	147.63	1.754		
9,400.00	6,929.06	9,502.84	6,995.90	79.34	79.99	104.99	818.39	-1,727.99	258.44	105.87	152.58	1.694		
9,500.00	6,927.99	9,602.84	6,994.94	81.93	82.57	105.04	813.63	-1,827.87	258.01	100.45	157.56	1.638		
9,600.00	6,926.91	9,702.84	6,993.97	84.53	85.16	105.10	808.86	-1,927.75	257.58	95.01	162.57	1.584		
9,700.00	6,925.83	9,802.84	6,993.01	87.14	87.77	105.15	804.09	-2,027.63	257.15	89.54	167.60	1.534		
9,800.00	6,924.75	9,902.84	6,992.04	89.77	90.39	105.20	799.32	-2,127.51	256.71	84.05	172.66	1.487	Level 3	
9,900.00	6,923.67	10,002.84	6,991.08	92.41	93.03	105.25	794.55	-2,227.39	256.28	78.54	177.74	1.442	Level 3	
10,000.00	6,922.59	10,102.84	6,990.11	95.07	95.68	105.31	789.78	-2,327.27	255.85	73.01	182.84	1.399	Level 3	
10,100.00	6,921.51	10,202.85	6,989.15	97.73	98.33	105.36	785.01	-2,427.15	255.42	67.46	187.96	1.359	Level 3	
10,200.00	6,920.44	10,302.85	6,988.18	100.40	101.00	105.41	780.24	-2,527.03	254.99	61.90	193.09	1.321	Level 3	
10,300.00	6,919.36	10,397.15	6,987.22	103.08	103.52	105.47	775.47	-2,626.91	254.56	56.47	198.09	1.285	Level 3	
10,400.00	6,918.28	10,502.85	6,986.26	105.77	106.36	105.52	770.70	-2,726.79	254.12	50.73	203.40	1.249	Level 2	
10,500.00	6,917.20	10,597.15	6,985.29	108.47	108.90	105.57	765.93	-2,826.67	253.69	45.28	208.42	1.217	Level 2	
10,600.00	6,916.12	10,697.15	6,984.33	111.18	111.60	105.63	761.16	-2,926.55	253.26	39.66	213.60	1.186	Level 2	
10,700.00	6,915.04	10,802.85	6,983.36	113.89	114.46	105.68	756.39	-3,026.43	252.83	33.89	218.94	1.155	Level 2	
10,800.00	6,913.96	10,902.85	6,982.40	116.61	117.17	105.73	751.62	-3,126.31	252.40	28.26	224.14	1.126	Level 2	
10,900.00	6,912.89	11,002.86	6,981.43	119.33	119.89	105.79	746.85	-3,226.19	251.97	22.63	229.35	1.099	Level 2	
11,000.00	6,911.81	11,097.14	6,980.47	122.06	122.46	105.84	742.08	-3,326.07	251.54	17.13	234.41	1.073	Level 2	
11,100.00	6,910.73	11,202.86	6,979.50	124.79	125.34	105.90	737.31	-3,425.95	251.12	11.33	239.78	1.047	Level 2	
11,200.00	6,909.65	11,302.86	6,978.54	127.53	128.08	105.95	732.54	-3,525.83	250.69	5.68	245.01	1.023	Level 2	
11,300.00	6,908.57	11,402.86	6,977.57	130.27	130.81	106.01	727.77	-3,625.71	250.26	0.01	250.24	1.000	Level 2	
11,400.00	6,907.49	11,502.86	6,976.61	133.02	133.56	106.06	723.00	-3,725.59	249.83	-5.65	255.48	0.978	Level 1	
11,500.00	6,906.41	11,602.86	6,975.64	135.77	136.30	106.12	718.23	-3,825.47	249.40	-11.32	260.72	0.957	Level 1	
11,600.00	6,905.34	11,702.86	6,974.68	138.52	139.05	106.18	713.46	-3,925.35	248.97	-16.99	265.96	0.936	Level 1	
11,700.00	6,904.26	11,802.87	6,973.71	141.28	141.80	106.23	708.69	-4,025.23	248.54	-22.67	271.21	0.916	Level 1	
11,800.00	6,903.18	11,897.13	6,972.75	144.04	144.40	106.29	703.92	-4,125.11	248.12	-28.19	276.31	0.898	Level 1	
11,900.00	6,902.10	12,002.87	6,971.78	146.80	147.32	106.34	699.15	-4,224.99	247.69	-34.03	281.72	0.879	Level 1	
12,000.00	6,901.02	12,102.87	6,970.82	149.57	150.08	106.40	694.38	-4,324.87	247.26	-39.71	286.97	0.862	Level 1	
12,100.00	6,899.94	12,202.87	6,969.85	152.34	152.85	106.46	689.61	-4,424.75	246.84	-45.39	292.23	0.845	Level 1	
12,200.00	6,898.87	12,302.87	6,968.89	155.11	155.61	106.51	684.84	-4,524.63	246.41	-51.08	297.49	0.828	Level 1	
12,300.00	6,897.79	12,402.87	6,967.92	157.89	158.39	106.57	680.07	-4,624.51	245.98	-56.76	302.75	0.813	Level 1	
12,400.00	6,896.71	12,502.87	6,966.96	160.66	161.16	106.63	675.30	-4,724.40	245.56	-62.45	308.01	0.797	Level 1	
12,500.00	6,895.63	12,597.13	6,966.00	163.44	163.77	106.69	670.53	-4,824.28	245.13	-67.98	313.11	0.783	Level 1	
12,600.00	6,894.55	12,702.88	6,965.03	166.22	166.71	106.74	665.76	-4,924.16	244.70	-73.82	318.53	0.768	Level 1	
12,700.00	6,893.47	12,802.88	6,964.07	169.00	169.49	106.80	660.99	-5,024.04	244.28	-79.51	323.79	0.754	Level 1	
12,800.00	6,892.39	12,897.12	6,963.10	171.79	172.11	106.86	656.22	-5,123.92	243.85	-85.04	328.90	0.741	Level 1	
12,900.00	6,891.32	13,002.88	6,962.14	174.57	175.05	106.92	651.45	-5,223.80	243.43	-90.89	334.31	0.728	Level 1	
13,000.00	6,890.24	13,102.88	6,961.17	177.36	177.84	106.98	646.68	-5,323.68	243.00	-96.57	339.58	0.716	Level 1	
13,100.00	6,889.16	13,202.88	6,960.21	180.15	180.62	107.03	641.91	-5,423.56	242.58	-102.26	344.84	0.703	Level 1	
13,200.00	6,888.08	13,297.12	6,959.24	182.94	183.25	107.09	637.14	-5,523.44	242.16	-107.79	349.94	0.692	Level 1	
13,300.00	6,887.00	13,402.88	6,958.28	185.74	186.20	107.15	632.37	-5,623.32	241.73	-113.62	355.35	0.680	Level 1	
13,400.00	6,885.92	13,502.89	6,957.31	188.53	188.99	107.21	627.60	-5,723.20	241.31	-119.30	360.61	0.669	Level 1	
13,500.00	6,884.84	13,602.89	6,956.35	191.32	191.78	107.27	622.83	-5,823.08	240.89	-124.98	365.87	0.658	Level 1	
13,600.00	6,883.77	13,702.89	6,955.38	194.12	194.57	107.33	618.06	-5,922.96	240.46	-130.66	371.12	0.648	Level 1	
13,700.00	6,882.69	13,802.89	6,954.42	196.92	197.37	107.39	613.29	-6,022.84	240.04	-136.34	376.38	0.638	Level 1	
13,800.00	6,881.61	13,902.89	6,953.45	199.72	200.16	107.45	608.52	-6,122.72	239.62	-142.01	381.63	0.628	Level 1	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 32N-6C-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,900.00	6,880.53	13,997.11	6,952.49	202.52	202.80	107.51	603.75	-6,222.60	239.19	-147.53	386.72	0.619	Level 1	
14,000.00	6,879.45	14,102.89	6,951.52	205.32	205.76	107.57	598.98	-6,322.48	238.77	-153.35	392.13	0.609	Level 1	
14,100.00	6,878.37	14,202.89	6,950.56	208.12	208.56	107.63	594.21	-6,422.36	238.35	-159.02	397.37	0.600	Level 1	
14,200.00	6,877.29	14,302.90	6,949.59	210.92	211.36	107.69	589.44	-6,522.24	237.93	-164.69	402.62	0.591	Level 1	
14,300.00	6,876.22	14,397.10	6,948.63	213.73	214.00	107.76	584.67	-6,622.12	237.51	-170.20	407.70	0.583	Level 1	
14,400.00	6,875.14	14,502.90	6,947.66	216.53	216.96	107.82	579.90	-6,722.00	237.09	-176.01	413.10	0.574	Level 1	
14,500.00	6,874.06	14,602.90	6,946.70	219.34	219.76	107.88	575.13	-6,821.88	236.67	-181.67	418.33	0.566	Level 1	
14,600.00	6,872.98	14,697.10	6,945.74	222.15	222.40	107.94	570.36	-6,921.76	236.25	-187.17	423.41	0.558	Level 1	
14,700.00	6,871.90	14,802.90	6,944.77	224.95	225.37	108.00	565.59	-7,021.64	235.83	-192.97	428.80	0.550	Level 1	
14,800.00	6,870.82	14,897.10	6,943.81	227.76	228.01	108.06	560.83	-7,121.52	235.41	-198.47	433.87	0.543	Level 1	
14,900.00	6,869.75	15,002.90	6,942.84	230.57	230.98	108.13	556.06	-7,221.40	234.99	-204.27	439.25	0.535	Level 1	
15,000.00	6,868.67	15,102.91	6,941.88	233.38	233.79	108.19	551.29	-7,321.28	234.57	-209.91	444.48	0.528	Level 1	
15,100.00	6,867.59	15,197.09	6,940.91	236.19	236.43	108.25	546.52	-7,421.16	234.15	-215.39	449.54	0.521	Level 1	
15,200.00	6,866.51	15,297.09	6,939.95	239.00	239.24	108.32	541.75	-7,521.04	233.73	-221.03	454.76	0.514	Level 1	
15,300.00	6,865.43	15,402.91	6,938.98	241.81	242.22	108.38	536.98	-7,620.92	233.31	-226.81	460.13	0.507	Level 1	
15,400.00	6,864.35	15,497.09	6,938.02	244.63	244.86	108.44	532.21	-7,720.80	232.89	-232.29	465.18	0.501	Level 1	
15,500.00	6,863.27	15,602.91	6,937.05	247.44	247.84	108.51	527.44	-7,820.68	232.47	-238.07	470.54	0.494	Level 1	
15,600.00	6,862.20	15,697.09	6,936.09	250.25	250.48	108.57	522.67	-7,920.57	232.06	-243.53	475.59	0.488	Level 1	
15,618.10	6,862.00	15,715.18	6,935.91	250.76	250.99	108.58	521.80	-7,938.64	231.98	-244.55	476.53	0.487	Level 1, ES, SF	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 33C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.68	-44.81	-4.18	45.00					
100.00	100.00	100.00	100.00	3.28	3.28	-174.68	-44.81	-4.18	45.00	38.43	6.57	6.850		
200.00	200.00	200.00	200.00	3.34	3.34	-174.68	-44.81	-4.18	45.00	38.33	6.67	6.743	CC, ES	
300.00	299.98	299.98	299.98	3.44	3.44	134.99	-44.81	-4.18	46.22	39.33	6.89	6.709		
400.00	399.84	400.09	400.07	3.61	3.60	137.20	-44.85	-2.43	49.80	42.59	7.20	6.913		
500.00	499.45	500.18	500.02	3.81	3.80	137.88	-44.99	2.81	55.51	47.90	7.61	7.297		
600.00	598.70	600.17	599.62	4.06	4.04	137.37	-45.22	11.53	63.29	55.20	8.09	7.820		
700.00	697.47	699.93	698.64	4.35	4.32	136.12	-45.54	23.63	73.18	64.53	8.65	8.456		
800.00	795.62	800.83	796.99	4.66	4.62	135.97	-45.88	36.84	85.44	76.15	9.28	9.203		
900.00	893.06	901.96	894.99	5.01	4.96	137.18	-46.23	50.00	100.21	90.24	9.97	10.051		
961.44	952.51	958.55	954.96	5.25	5.15	138.32	-46.44	58.05	110.58	100.18	10.40	10.635		
1,000.00	989.71	1,003.54	992.53	5.40	5.31	139.15	-46.57	63.09	117.42	106.72	10.71	10.967		
1,100.00	1,086.20	1,105.21	1,089.98	5.81	5.69	140.90	-46.91	76.18	135.26	123.78	11.47	11.788		
1,200.00	1,182.69	1,206.89	1,187.43	6.24	6.08	142.24	-47.26	89.26	153.19	140.92	12.27	12.483		
1,300.00	1,279.18	1,308.56	1,284.88	6.69	6.48	143.30	-47.60	102.35	171.18	158.09	13.09	13.075		
1,400.00	1,375.67	1,389.76	1,382.33	7.15	6.81	144.16	-47.94	115.43	189.22	175.37	13.85	13.663		
1,500.00	1,472.15	1,488.08	1,479.78	7.62	7.21	144.87	-48.28	128.52	207.29	192.60	14.69	14.110		
1,600.00	1,568.64	1,586.41	1,577.23	8.10	7.62	145.47	-48.63	141.60	225.39	209.84	15.55	14.498		
1,700.00	1,665.13	1,684.73	1,674.68	8.59	8.03	145.98	-48.97	154.69	243.51	227.10	16.41	14.836		
1,800.00	1,761.62	1,783.05	1,772.12	9.08	8.45	146.41	-49.31	167.77	261.64	244.35	17.29	15.133		
1,900.00	1,858.11	1,881.38	1,869.57	9.58	8.88	146.79	-49.65	180.85	279.79	261.62	18.17	15.395		
2,000.00	1,954.60	1,979.70	1,967.02	10.08	9.30	147.13	-50.00	193.94	297.95	278.88	19.07	15.627		
2,100.00	2,051.09	2,078.03	2,064.47	10.59	9.73	147.42	-50.34	207.02	316.12	296.15	19.97	15.834		
2,200.00	2,147.57	2,176.35	2,161.92	11.09	10.16	147.69	-50.68	220.11	334.29	313.42	20.87	16.019		
2,300.00	2,244.06	2,274.67	2,259.37	11.61	10.60	147.92	-51.02	233.19	352.47	330.69	21.78	16.185		
2,400.00	2,340.55	2,373.00	2,356.82	12.12	11.03	148.14	-51.37	246.28	370.66	347.97	22.69	16.336		
2,500.00	2,437.04	2,471.32	2,454.26	12.64	11.47	148.33	-51.71	259.36	388.85	365.24	23.61	16.472		
2,600.00	2,533.53	2,569.64	2,551.71	13.15	11.91	148.51	-52.05	272.45	407.04	382.51	24.53	16.596		
2,700.00	2,630.02	2,667.97	2,649.16	13.67	12.35	148.67	-52.40	285.53	425.24	399.79	25.45	16.710		
2,800.00	2,726.50	2,766.29	2,746.61	14.19	12.79	148.81	-52.74	298.61	443.44	417.06	26.37	16.814		
2,900.00	2,822.99	2,864.61	2,844.06	14.72	13.24	148.95	-53.08	311.70	461.64	434.34	27.30	16.909		
3,000.00	2,919.48	2,962.94	2,941.51	15.24	13.68	149.08	-53.42	324.78	479.84	451.61	28.23	16.997		
3,100.00	3,015.97	3,061.26	3,038.96	15.76	14.13	149.19	-53.77	337.87	498.05	468.89	29.16	17.079		
3,200.00	3,112.46	3,159.59	3,136.40	16.29	14.57	149.30	-54.11	350.95	516.26	486.16	30.10	17.154		
3,300.00	3,208.95	3,257.91	3,233.85	16.81	15.02	149.40	-54.45	364.04	534.47	503.44	31.03	17.224		
3,400.00	3,305.44	3,356.23	3,331.30	17.34	15.47	149.50	-54.79	377.12	552.68	520.72	31.97	17.289		
3,500.00	3,401.92	3,454.56	3,428.75	17.87	15.92	149.58	-55.14	390.21	570.90	537.99	32.90	17.350		
3,600.00	3,498.41	3,552.88	3,526.20	18.40	16.37	149.67	-55.48	403.29	589.11	555.27	33.84	17.407		
3,700.00	3,594.90	3,651.20	3,623.65	18.93	16.82	149.74	-55.82	416.38	607.33	572.54	34.78	17.460		
3,800.00	3,691.39	3,749.53	3,721.10	19.46	17.27	149.82	-56.16	429.46	625.54	589.82	35.72	17.510		
3,900.00	3,787.88	3,847.85	3,818.54	19.99	17.72	149.89	-56.51	442.54	643.76	607.10	36.67	17.557		
4,000.00	3,884.37	3,946.18	3,915.99	20.52	18.17	149.95	-56.85	455.63	661.98	624.37	37.61	17.602		
4,100.00	3,980.85	4,044.50	4,013.44	21.05	18.62	150.01	-57.19	468.71	680.20	641.65	38.55	17.643		
4,200.00	4,077.34	4,142.82	4,110.89	21.58	19.07	150.07	-57.53	481.80	698.42	658.92	39.50	17.683		
4,300.00	4,173.83	4,241.15	4,208.34	22.11	19.52	150.13	-57.88	494.88	716.64	676.20	40.44	17.720		
4,390.25	4,260.91	4,329.89	4,296.29	22.59	19.93	150.18	-58.19	506.69	733.09	691.79	41.30	17.752		
4,400.00	4,270.32	4,339.47	4,305.79	22.64	19.97	150.20	-58.22	507.97	734.85	693.46	41.39	17.755		
4,500.00	4,367.33	4,438.11	4,403.55	23.16	20.43	150.33	-58.56	521.09	751.29	708.96	42.33	17.749		
4,600.00	4,465.13	4,537.17	4,501.73	23.65	20.88	150.31	-58.91	534.28	764.73	721.47	43.26	17.677		
4,700.00	4,563.60	4,636.55	4,600.22	24.12	21.34	150.13	-59.26	547.50	775.17	730.99	44.19	17.544		
4,800.00	4,662.61	4,736.11	4,698.90	24.56	21.80	149.80	-59.60	560.75	782.63	737.53	45.10	17.354		
4,900.00	4,762.05	4,835.75	4,797.65	24.98	22.26	149.32	-59.95	574.01	787.13	741.13	46.00	17.111		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 33C-6-M - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,935.33	4,896.34	25.38	22.72	148.69	-60.30	587.26	788.71	741.82	46.89	16.820			
5,100.00	4,961.73	5,034.73	4,994.86	25.76	23.18	147.90	-60.64	600.49	787.44	739.67	47.77	16.484			
5,151.69	5,013.42	5,086.01	5,045.68	25.95	23.42	-160.68	-60.82	607.31	785.68	737.46	48.22	16.294			
5,200.00	5,061.73	5,133.89	5,093.14	26.13	23.64	-161.13	-60.99	613.68	783.72	735.09	48.63	16.115			
5,300.00	5,161.73	5,233.00	5,191.36	26.49	24.09	-162.05	-61.33	626.87	779.82	730.32	49.50	15.755			
5,400.00	5,261.73	5,332.11	5,289.59	26.86	24.55	-162.99	-61.68	640.06	776.12	725.76	50.36	15.411			
5,500.00	5,361.73	5,431.22	5,387.82	27.23	25.01	-163.93	-62.02	653.25	772.64	721.41	51.23	15.083			
5,600.00	5,461.73	5,530.33	5,486.05	27.60	25.47	-164.88	-62.37	666.44	769.37	717.28	52.09	14.769			
5,700.00	5,561.73	5,629.44	5,584.28	27.97	25.93	-165.84	-62.72	679.63	766.32	713.36	52.96	14.469			
5,800.00	5,661.73	5,728.55	5,682.50	28.35	26.39	-166.81	-63.06	692.82	763.48	709.65	53.83	14.183			
5,900.00	5,761.73	5,827.66	5,780.73	28.72	26.85	-167.78	-63.41	706.01	760.88	706.17	54.70	13.910			
6,000.00	5,861.73	5,926.77	5,878.96	29.10	27.30	-168.76	-63.75	719.20	758.49	702.92	55.57	13.649			
6,100.00	5,961.73	6,025.88	5,977.19	29.48	27.76	-169.75	-64.10	732.39	756.33	699.89	56.44	13.400			
6,200.00	6,061.73	6,124.99	6,075.41	29.86	28.22	-170.74	-64.44	745.58	754.40	697.09	57.32	13.162			
6,300.00	6,161.73	6,224.10	6,173.64	30.25	28.68	-171.73	-64.79	758.77	752.71	694.52	58.19	12.935			
6,400.00	6,261.73	6,323.21	6,271.87	30.63	29.14	-172.73	-65.13	771.95	751.24	692.18	59.06	12.719			
6,451.69	6,313.42	6,374.44	6,322.65	30.83	29.38	-173.25	-65.31	778.77	750.57	691.06	59.51	12.612			
6,500.00	6,361.68	6,422.03	6,369.81	31.01	29.60	-81.48	-65.48	785.11	749.73	689.80	59.93	12.510			
6,550.00	6,411.34	6,470.48	6,417.83	31.20	29.82	-82.50	-65.65	791.55	748.43	688.08	60.36	12.400			
6,600.00	6,460.39	6,513.22	6,460.31	31.38	30.02	-83.59	-65.83	796.13	747.03	686.29	60.73	12.301			
6,650.00	6,508.54	6,556.04	6,503.09	31.58	30.20	-84.71	-66.11	797.87	745.81	684.71	61.11	12.205			
6,700.00	6,555.48	6,599.69	6,546.71	31.78	30.37	-85.86	-66.50	796.69	744.84	683.35	61.49	12.113			
6,750.00	6,600.93	6,644.23	6,591.04	31.98	30.53	-87.05	-66.99	792.40	744.13	682.24	61.89	12.024			
6,800.00	6,644.61	6,689.77	6,635.93	32.20	30.70	-88.25	-67.59	784.83	743.73	681.41	62.32	11.934			
6,836.76	6,675.44	6,723.94	6,669.20	32.37	30.83	-89.15	-68.11	777.05	743.64	680.98	62.66	11.868			
6,850.00	6,686.25	6,736.40	6,681.21	32.44	30.88	-89.48	-68.31	773.77	743.65	680.87	62.78	11.845			
6,900.00	6,725.58	6,784.23	6,726.69	32.68	31.06	-90.72	-69.15	759.02	743.91	680.64	63.28	11.757			
6,950.00	6,762.38	6,833.38	6,772.13	32.96	31.25	-91.98	-70.12	740.35	744.53	680.73	63.80	11.669			
7,000.00	6,796.41	6,883.96	6,817.25	33.25	31.46	-93.24	-71.22	717.54	745.50	681.14	64.36	11.584			
7,050.00	6,827.46	6,936.11	6,861.72	33.58	31.68	-94.49	-72.46	690.35	746.81	681.87	64.94	11.500			
7,100.00	6,855.34	6,989.96	6,905.13	33.93	31.92	-95.75	-73.84	658.55	748.43	682.88	65.55	11.418			
7,150.00	6,879.88	7,045.63	6,947.03	34.33	32.19	-96.98	-75.37	621.95	750.35	684.16	66.18	11.337			
7,200.00	6,900.93	7,103.26	6,986.86	34.76	32.50	-98.20	-77.04	580.35	752.50	685.65	66.85	11.257			
7,250.00	6,918.36	7,162.97	7,023.97	35.23	32.86	-99.39	-78.86	533.65	754.82	687.27	67.55	11.174			
7,300.00	6,932.05	7,224.83	7,057.64	35.74	33.28	-100.54	-80.82	481.81	757.26	688.95	68.31	11.086			
7,350.00	6,941.94	7,288.93	7,087.03	36.29	33.77	-101.63	-82.92	424.93	759.72	690.59	69.13	10.989			
7,400.00	6,947.94	7,355.26	7,111.28	36.87	34.35	-102.65	-85.12	363.25	762.11	692.07	70.05	10.880			
7,450.00	6,950.04	7,423.81	7,129.44	37.47	35.02	-103.59	-87.42	297.23	764.34	693.27	71.07	10.754			
7,458.56	6,950.00	7,435.75	7,131.88	37.58	35.15	-103.75	-87.82	285.54	764.70	693.44	71.26	10.731			
7,500.00	6,949.56	7,494.71	7,140.65	38.11	35.79	-104.44	-89.80	227.30	765.96	693.71	72.26	10.600			
7,600.00	6,948.48	7,617.54	7,143.42	39.51	37.26	-104.76	-93.83	104.65	765.69	690.67	75.02	10.207			
7,700.00	6,947.40	7,717.54	7,142.25	41.06	38.64	-104.77	-97.08	4.72	764.67	686.77	77.90	9.816			
7,800.00	6,946.32	7,817.53	7,141.09	42.74	40.17	-104.78	-100.34	-95.22	763.65	682.59	81.05	9.422			
7,900.00	6,945.24	7,917.53	7,139.93	44.55	41.84	-104.80	-103.60	-195.15	762.62	678.17	84.45	9.031			
8,000.00	6,944.16	8,017.52	7,138.76	46.46	43.63	-104.81	-106.85	-295.09	761.60	673.54	88.06	8.649			
8,100.00	6,943.08	8,117.52	7,137.60	48.47	45.53	-104.83	-110.11	-395.02	760.58	668.71	91.86	8.279			
8,200.00	6,942.01	8,217.51	7,136.44	50.55	47.52	-104.84	-113.37	-494.96	759.55	663.72	95.83	7.926			
8,300.00	6,940.93	8,317.50	7,135.27	52.71	49.59	-104.85	-116.62	-594.89	758.53	658.58	99.95	7.589			
8,400.00	6,939.85	8,417.50	7,134.11	54.93	51.74	-104.87	-119.88	-694.83	757.51	653.31	104.19	7.270			
8,500.00	6,938.77	8,517.49	7,132.95	57.20	53.96	-104.88	-123.14	-794.76	756.48	647.93	108.55	6.969			
8,600.00	6,937.69	8,617.49	7,131.79	59.53	56.23	-104.90	-126.39	-894.70	755.46	642.45	113.01	6.685			
8,700.00	6,936.61	8,717.48	7,130.62	61.89	58.55	-104.91	-129.65	-994.63	754.44	636.88	117.56	6.417			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 33C-6-M - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,800.00	6,935.54	8,817.48	7,129.46	64.30	60.91	-104.92	-132.90	-1,094.56	753.42	631.23	122.19	6.166			
8,900.00	6,934.46	8,917.47	7,128.30	66.74	63.31	-104.94	-136.16	-1,194.50	752.39	625.50	126.89	5.930			
9,000.00	6,933.38	9,017.47	7,127.13	69.21	65.75	-104.95	-139.42	-1,294.43	751.37	619.72	131.65	5.707			
9,100.00	6,932.30	9,117.46	7,125.97	71.71	68.22	-104.97	-142.67	-1,394.37	750.35	613.88	136.47	5.498			
9,200.00	6,931.22	9,217.46	7,124.81	74.23	70.72	-104.98	-145.93	-1,494.30	749.33	607.99	141.34	5.302			
9,300.00	6,930.14	9,317.45	7,123.64	76.78	73.25	-104.99	-149.19	-1,594.24	748.30	602.06	146.25	5.117			
9,400.00	6,929.06	9,417.45	7,122.48	79.34	75.79	-105.01	-152.44	-1,694.17	747.28	596.08	151.20	4.942			
9,500.00	6,927.99	9,517.44	7,121.32	81.93	78.36	-105.02	-155.70	-1,794.11	746.26	590.07	156.19	4.778			
9,600.00	6,926.91	9,617.43	7,120.15	84.53	80.94	-105.04	-158.96	-1,894.04	745.24	584.02	161.21	4.623			
9,700.00	6,925.83	9,717.43	7,118.99	87.14	83.55	-105.05	-162.21	-1,993.98	744.21	577.95	166.27	4.476			
9,800.00	6,924.75	9,817.42	7,117.83	89.77	86.16	-105.07	-165.47	-2,093.91	743.19	571.84	171.35	4.337			
9,900.00	6,923.67	9,917.42	7,116.66	92.41	88.79	-105.08	-168.73	-2,193.85	742.17	565.72	176.45	4.206			
10,000.00	6,922.59	10,017.41	7,115.50	95.07	91.44	-105.10	-171.98	-2,293.78	741.15	559.57	181.58	4.082			
10,100.00	6,921.51	10,117.41	7,114.34	97.73	94.09	-105.11	-175.24	-2,393.72	740.13	553.40	186.73	3.964			
10,200.00	6,920.44	10,217.40	7,113.18	100.40	96.76	-105.12	-178.50	-2,493.65	739.10	547.21	191.90	3.852			
10,300.00	6,919.36	10,317.40	7,112.01	103.08	99.44	-105.14	-181.75	-2,593.59	738.08	541.00	197.08	3.745			
10,400.00	6,918.28	10,417.39	7,110.85	105.77	102.12	-105.15	-185.01	-2,693.52	737.06	534.77	202.29	3.644			
10,500.00	6,917.20	10,517.39	7,109.69	108.47	104.81	-105.17	-188.26	-2,793.46	736.04	528.54	207.50	3.547			
10,600.00	6,916.12	10,617.38	7,108.52	111.18	107.52	-105.18	-191.52	-2,893.39	735.02	522.28	212.73	3.455			
10,700.00	6,915.04	10,717.38	7,107.36	113.89	110.22	-105.20	-194.78	-2,993.33	733.99	516.02	217.97	3.367			
10,800.00	6,913.96	10,817.37	7,106.20	116.61	112.94	-105.21	-198.03	-3,093.26	732.97	509.74	223.23	3.284			
10,900.00	6,912.89	10,917.36	7,105.03	119.33	115.66	-105.23	-201.29	-3,193.20	731.95	503.46	228.49	3.203			
11,000.00	6,911.81	11,017.36	7,103.87	122.06	118.39	-105.24	-204.55	-3,293.13	730.93	497.16	233.77	3.127			
11,100.00	6,910.73	11,117.35	7,102.71	124.79	121.12	-105.26	-207.80	-3,393.06	729.91	490.85	239.05	3.053			
11,200.00	6,909.65	11,217.35	7,101.54	127.53	123.86	-105.27	-211.06	-3,493.00	728.89	484.54	244.35	2.983			
11,300.00	6,908.57	11,317.34	7,100.38	130.27	126.60	-105.29	-214.32	-3,592.93	727.86	478.22	249.65	2.916			
11,400.00	6,907.49	11,417.34	7,099.22	133.02	129.34	-105.30	-217.57	-3,692.87	726.84	471.89	254.96	2.851			
11,500.00	6,906.41	11,517.33	7,098.05	135.77	132.09	-105.32	-220.83	-3,792.80	725.82	465.55	260.27	2.789			
11,600.00	6,905.34	11,617.33	7,096.89	138.52	134.85	-105.33	-224.09	-3,892.74	724.80	459.21	265.59	2.729			
11,700.00	6,904.26	11,717.32	7,095.73	141.28	137.61	-105.35	-227.34	-3,992.67	723.78	452.86	270.92	2.672			
11,800.00	6,903.18	11,817.32	7,094.56	144.04	140.37	-105.36	-230.60	-4,092.61	722.76	446.50	276.26	2.616			
11,900.00	6,902.10	11,917.31	7,093.40	146.80	143.13	-105.38	-233.85	-4,192.54	721.74	440.14	281.60	2.563			
12,000.00	6,901.02	12,017.31	7,092.24	149.57	145.90	-105.39	-237.11	-4,292.48	720.72	433.78	286.94	2.512			
12,100.00	6,899.94	12,117.30	7,091.08	152.34	148.67	-105.41	-240.37	-4,392.41	719.69	427.41	292.29	2.462			
12,200.00	6,898.87	12,217.29	7,089.91	155.11	151.44	-105.42	-243.62	-4,492.35	718.67	421.03	297.64	2.415			
12,300.00	6,897.79	12,317.29	7,088.75	157.89	154.22	-105.44	-246.88	-4,592.28	717.65	414.65	303.00	2.368			
12,400.00	6,896.71	12,417.28	7,087.59	160.66	157.00	-105.46	-250.14	-4,692.22	716.63	408.27	308.36	2.324			
12,500.00	6,895.63	12,517.28	7,086.42	163.44	159.78	-105.47	-253.39	-4,792.15	715.61	401.89	313.73	2.281			
12,600.00	6,894.55	12,617.27	7,085.26	166.22	162.56	-105.49	-256.65	-4,892.09	714.59	395.50	319.09	2.239			
12,700.00	6,893.47	12,717.27	7,084.10	169.00	165.34	-105.50	-259.91	-4,992.02	713.57	389.11	324.46	2.199			
12,800.00	6,892.39	12,817.26	7,082.93	171.79	168.13	-105.52	-263.16	-5,091.96	712.55	382.71	329.84	2.160			
12,900.00	6,891.32	12,917.26	7,081.77	174.57	170.92	-105.53	-266.42	-5,191.89	711.53	376.31	335.22	2.123			
13,000.00	6,890.24	13,017.25	7,080.61	177.36	173.71	-105.55	-269.68	-5,291.83	710.51	369.91	340.59	2.086			
13,100.00	6,889.16	13,117.25	7,079.44	180.15	176.50	-105.57	-272.93	-5,391.76	709.49	363.51	345.98	2.051			
13,200.00	6,888.08	13,217.24	7,078.28	182.94	179.29	-105.58	-276.19	-5,491.70	708.47	357.11	351.36	2.016			
13,300.00	6,887.00	13,317.24	7,077.12	185.74	182.09	-105.60	-279.45	-5,591.63	707.45	350.70	356.75	1.983			
13,400.00	6,885.92	13,417.23	7,075.95	188.53	184.89	-105.61	-282.70	-5,691.57	706.43	344.29	362.13	1.951			
13,500.00	6,884.84	13,517.22	7,074.79	191.32	187.68	-105.63	-285.96	-5,791.50	705.41	337.88	367.52	1.919			
13,600.00	6,883.77	13,617.22	7,073.63	194.12	190.48	-105.65	-289.21	-5,891.43	704.38	331.47	372.92	1.889			
13,700.00	6,882.69	13,717.21	7,072.47	196.92	193.28	-105.66	-292.47	-5,991.37	703.36	325.05	378.31	1.859			
13,800.00	6,881.61	13,817.21	7,071.30	199.72	196.09	-105.68	-295.73	-6,091.30	702.34	318.64	383.70	1.830			
13,900.00	6,880.53	13,917.20	7,070.14	202.52	198.89	-105.69	-298.98	-6,191.24	701.32	312.22	389.10	1.802			

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 33C-6-M - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,879.45	14,017.20	7,068.98	205.32	201.69	-105.71	-302.24	-6,291.17	700.30	305.81	394.50	1.775			
14,100.00	6,878.37	14,117.19	7,067.81	208.12	204.50	-105.73	-305.50	-6,391.11	699.28	299.39	399.90	1.749			
14,200.00	6,877.29	14,217.19	7,066.65	210.92	207.30	-105.74	-308.75	-6,491.04	698.26	292.97	405.30	1.723			
14,300.00	6,876.22	14,317.18	7,065.49	213.73	210.11	-105.76	-312.01	-6,590.98	697.24	286.55	410.70	1.698			
14,400.00	6,875.14	14,417.18	7,064.32	216.53	212.92	-105.78	-315.27	-6,690.91	696.22	280.12	416.10	1.673			
14,500.00	6,874.06	14,517.17	7,063.16	219.34	215.73	-105.79	-318.52	-6,790.85	695.21	273.70	421.50	1.649			
14,600.00	6,872.98	14,617.16	7,062.00	222.15	218.54	-105.81	-321.78	-6,890.78	694.19	267.28	426.91	1.626			
14,700.00	6,871.90	14,717.16	7,060.83	224.95	221.35	-105.83	-325.04	-6,990.72	693.17	260.85	432.31	1.603			
14,800.00	6,870.82	14,817.15	7,059.67	227.76	224.16	-105.84	-328.29	-7,090.65	692.15	254.43	437.72	1.581			
14,900.00	6,869.75	14,917.15	7,058.51	230.57	226.97	-105.86	-331.55	-7,190.59	691.13	248.00	443.12	1.560			
15,000.00	6,868.67	15,017.14	7,057.34	233.38	229.79	-105.88	-334.81	-7,290.52	690.11	241.58	448.53	1.539			
15,100.00	6,867.59	15,117.14	7,056.18	236.19	232.60	-105.89	-338.06	-7,390.46	689.09	235.15	453.93	1.518			
15,200.00	6,866.51	15,217.13	7,055.02	239.00	235.42	-105.91	-341.32	-7,490.39	688.07	228.73	459.34	1.498	Level 3		
15,300.00	6,865.43	15,317.13	7,053.85	241.81	238.23	-105.93	-344.57	-7,590.33	687.05	222.30	464.75	1.478	Level 3		
15,400.00	6,864.35	15,417.12	7,052.69	244.63	241.05	-105.94	-347.83	-7,690.26	686.03	215.87	470.16	1.459	Level 3		
15,500.00	6,863.27	15,517.12	7,051.53	247.44	243.86	-105.96	-351.09	-7,790.20	685.01	209.45	475.56	1.440	Level 3		
15,600.00	6,862.20	15,617.11	7,050.37	250.25	246.68	-105.98	-354.34	-7,890.13	683.99	203.02	480.97	1.422	Level 3		
15,618.10	6,862.00	15,635.21	7,050.16	250.76	247.19	-105.98	-354.93	-7,908.21	683.81	201.86	481.95	1.419	Level 3, SF		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 0-MWD													Offset Well Error:		3.28 ft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	-174.68	-29.87	-2.78	30.00						
100.00	100.00	100.00	100.00	3.28	3.28	-174.68	-29.87	-2.78	30.00	23.43	6.57	4.567			
200.00	200.00	200.00	200.00	3.34	3.34	-174.68	-29.87	-2.78	30.00	23.33	6.67	4.495 CC			
300.00	299.98	300.39	300.37	3.44	3.44	132.75	-29.36	-1.10	30.54	23.65	6.89	4.433			
400.00	399.84	400.76	400.60	3.61	3.60	130.86	-27.83	3.95	32.19	24.98	7.21	4.465			
500.00	499.45	501.08	500.52	3.81	3.81	128.11	-25.29	12.34	34.99	27.36	7.63	4.588			
600.00	598.70	601.32	600.01	4.06	4.08	124.92	-21.74	24.07	39.02	30.88	8.14	4.794			
700.00	697.47	701.46	698.90	4.35	4.40	121.69	-17.18	39.11	44.33	35.59	8.75	5.069			
800.00	795.62	801.41	797.03	4.66	4.78	118.79	-11.67	57.29	50.97	41.52	9.45	5.396			
900.00	893.06	901.06	894.68	5.01	5.21	118.63	-5.92	76.30	59.20	48.97	10.22	5.790			
961.44	952.51	962.20	954.59	5.25	5.49	119.87	-2.38	87.96	65.10	54.36	10.74	6.064			
1,000.00	989.71	1,000.54	992.16	5.40	5.67	120.88	-0.17	95.28	69.03	57.96	11.07	6.238			
1,100.00	1,086.20	1,100.03	1,089.60	5.81	6.15	123.05	5.58	114.24	79.30	67.36	11.95	6.637			
1,200.00	1,182.69	1,200.59	1,187.04	6.24	6.66	124.72	11.32	133.20	89.67	76.80	12.87	6.967			
1,300.00	1,279.18	1,301.16	1,284.48	6.69	7.18	126.05	17.07	152.17	100.09	86.27	13.82	7.243			
1,400.00	1,375.67	1,401.73	1,381.91	7.15	7.72	127.12	22.81	171.13	110.55	95.76	14.79	7.475			
1,500.00	1,472.15	1,502.30	1,479.35	7.62	8.26	128.01	28.56	190.10	121.05	105.27	15.78	7.672			
1,600.00	1,568.64	1,602.87	1,576.79	8.10	8.82	128.75	34.30	209.06	131.57	114.79	16.78	7.841			
1,700.00	1,665.13	1,696.56	1,674.22	8.59	9.34	129.39	40.04	228.03	142.11	124.35	17.76	8.003			
1,800.00	1,761.62	1,804.00	1,771.66	9.08	9.95	129.94	45.79	246.99	152.66	133.84	18.82	8.112			
1,900.00	1,858.11	1,904.57	1,869.10	9.58	10.52	130.41	51.53	265.96	163.22	143.37	19.85	8.222			
2,000.00	1,954.60	2,005.14	1,966.54	10.08	11.09	130.83	57.28	284.92	173.80	152.91	20.89	8.318			
2,100.00	2,051.09	2,105.71	2,063.97	10.59	11.67	131.20	63.02	303.89	184.38	162.44	21.94	8.404			
2,200.00	2,147.57	2,206.28	2,161.41	11.09	12.25	131.53	68.77	322.85	194.97	171.98	22.99	8.480			
2,300.00	2,244.06	2,306.85	2,258.85	11.61	12.84	131.83	74.51	341.82	205.57	181.52	24.05	8.548			
2,400.00	2,340.55	2,407.41	2,356.29	12.12	13.43	132.10	80.26	360.78	216.17	191.06	25.11	8.608			
2,500.00	2,437.04	2,507.98	2,453.72	12.64	14.01	132.34	86.00	379.75	226.78	200.60	26.18	8.663			
2,600.00	2,533.53	2,608.55	2,551.16	13.15	14.60	132.56	91.75	398.71	237.39	210.14	27.24	8.713			
2,700.00	2,630.02	2,709.12	2,648.60	13.67	15.20	132.76	97.49	417.67	248.00	219.68	28.32	8.758			
2,800.00	2,726.50	2,809.69	2,746.03	14.19	15.79	132.95	103.24	436.64	258.61	229.22	29.39	8.800			
2,900.00	2,822.99	2,889.74	2,843.47	14.72	16.26	133.12	108.98	455.60	269.23	238.88	30.35	8.872			
3,000.00	2,919.48	2,989.18	2,940.91	15.24	16.85	133.27	114.73	474.57	279.85	248.43	31.42	8.908			
3,100.00	3,015.97	3,088.61	3,038.35	15.76	17.44	133.42	120.47	493.53	290.47	257.98	32.49	8.940			
3,200.00	3,112.46	3,188.04	3,135.78	16.29	18.03	133.56	126.22	512.50	301.09	267.53	33.56	8.971			
3,300.00	3,208.95	3,287.47	3,233.22	16.81	18.62	133.68	131.96	531.46	311.72	277.08	34.64	8.999			
3,400.00	3,305.44	3,386.90	3,330.66	17.34	19.21	133.80	137.71	550.43	322.35	286.63	35.72	9.025			
3,500.00	3,401.92	3,486.33	3,428.09	17.87	19.80	133.91	143.45	569.39	332.97	296.18	36.80	9.049			
3,600.00	3,498.41	3,585.77	3,525.53	18.40	20.40	134.02	149.20	588.36	343.60	305.73	37.88	9.072			
3,700.00	3,594.90	3,685.20	3,622.97	18.93	20.99	134.11	154.94	607.32	354.23	315.27	38.96	9.093			
3,800.00	3,691.39	3,784.63	3,720.41	19.46	21.58	134.20	160.68	626.29	364.86	324.82	40.04	9.113			
3,900.00	3,787.88	3,884.06	3,817.84	19.99	22.18	134.29	166.43	645.25	375.49	334.37	41.12	9.132			
4,000.00	3,884.37	3,983.49	3,915.28	20.52	22.77	134.37	172.17	664.22	386.13	343.92	42.20	9.149			
4,100.00	3,980.85	4,082.92	4,012.72	21.05	23.37	134.45	177.92	683.18	396.76	353.47	43.29	9.166			
4,200.00	4,077.34	4,182.36	4,110.15	21.58	23.96	134.52	183.66	702.14	407.39	363.02	44.37	9.181			
4,300.00	4,173.83	4,281.79	4,207.59	22.11	24.56	134.59	189.41	721.11	418.03	372.57	45.46	9.196			
4,390.25	4,260.91	4,371.53	4,295.53	22.59	25.10	134.65	194.59	738.23	427.62	381.19	46.44	9.208			
4,400.00	4,270.32	4,381.22	4,305.03	22.64	25.16	134.67	195.15	740.07	428.65	382.11	46.54	9.209			
4,500.00	4,367.33	4,480.79	4,402.60	23.16	25.75	134.67	200.91	759.07	437.83	390.19	47.64	9.191			
4,600.00	4,465.13	4,576.27	4,496.32	23.65	26.31	134.44	206.19	776.51	444.92	396.25	48.67	9.141			
4,700.00	4,563.60	4,670.24	4,589.08	24.12	26.82	134.26	210.54	790.87	450.84	401.21	49.63	9.085			
4,800.00	4,662.61	4,764.27	4,682.35	24.56	27.29	134.13	214.01	802.31	455.62	405.11	50.51	9.020			
4,900.00	4,762.05	4,858.35	4,776.00	24.98	27.71	134.04	216.58	810.82	459.27	407.94	51.33	8.947			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 33N-6C-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,952.45	4,869.92	25.38	28.10	134.00	218.27	816.39	461.77	409.68	52.08	8.866		
5,100.00	4,961.73	5,046.56	4,963.98	25.76	28.44	134.01	219.06	819.00	463.11	410.34	52.77	8.776		
5,151.69	5,013.42	5,104.00	5,013.42	25.95	28.64	-174.08	219.13	819.22	463.34	410.20	53.14	8.719		
5,200.00	5,061.73	5,144.31	5,061.73	26.13	28.77	-174.08	219.13	819.22	463.34	409.89	53.45	8.668		
5,300.00	5,161.73	5,244.31	5,161.73	26.49	29.10	-174.08	219.13	819.22	463.34	409.18	54.17	8.554		
5,400.00	5,261.73	5,344.31	5,261.73	26.86	29.43	-174.08	219.13	819.22	463.34	408.46	54.88	8.442		
5,500.00	5,361.73	5,444.31	5,361.73	27.23	29.77	-174.08	219.13	819.22	463.34	407.74	55.60	8.333		
5,600.00	5,461.73	5,544.31	5,461.73	27.60	30.11	-174.08	219.13	819.22	463.34	407.01	56.33	8.226		
5,700.00	5,561.73	5,644.31	5,561.73	27.97	30.45	-174.08	219.13	819.22	463.34	406.29	57.06	8.121		
5,800.00	5,661.73	5,744.31	5,661.73	28.35	30.79	-174.08	219.13	819.22	463.34	405.55	57.79	8.017		
5,900.00	5,761.73	5,844.31	5,761.73	28.72	31.13	-174.08	219.13	819.22	463.34	404.81	58.53	7.916		
6,000.00	5,861.73	5,944.31	5,861.73	29.10	31.48	-174.08	219.13	819.22	463.34	404.07	59.27	7.817		
6,100.00	5,961.73	6,044.31	5,961.73	29.48	31.83	-174.08	219.13	819.22	463.34	403.33	60.02	7.720		
6,200.00	6,061.73	6,144.31	6,061.73	29.86	32.18	-174.08	219.13	819.22	463.34	402.58	60.76	7.625		
6,300.00	6,161.73	6,244.31	6,161.73	30.25	32.54	-174.08	219.13	819.22	463.34	401.83	61.52	7.532		
6,400.00	6,261.73	6,344.31	6,261.73	30.63	32.90	-174.08	219.13	819.22	463.34	401.07	62.27	7.441		
6,451.69	6,313.42	6,404.00	6,313.42	30.83	33.11	-174.08	219.13	819.22	463.34	400.65	62.69	7.391		
6,500.00	6,361.68	6,444.26	6,361.68	31.01	33.25	-81.87	219.13	819.22	463.08	400.04	63.04	7.346		
6,550.00	6,411.34	6,492.40	6,409.82	31.20	33.42	-82.58	219.12	819.01	462.33	398.90	63.43	7.288		
6,600.00	6,460.39	6,537.96	6,455.28	31.38	33.56	-83.40	219.00	816.21	461.51	397.73	63.78	7.236		
6,650.00	6,508.54	6,583.93	6,500.83	31.58	33.67	-84.25	218.76	810.10	460.74	396.62	64.13	7.185		
6,700.00	6,555.48	6,630.34	6,546.25	31.78	33.76	-85.14	218.37	800.62	460.05	395.57	64.48	7.135		
6,750.00	6,600.93	6,677.22	6,591.31	31.98	33.84	-86.07	217.84	787.71	459.44	394.60	64.83	7.086		
6,800.00	6,644.61	6,724.61	6,635.76	32.20	33.91	-87.02	217.18	771.33	458.93	393.73	65.20	7.039		
6,850.00	6,686.25	6,772.53	6,679.34	32.44	33.96	-88.00	216.37	751.46	458.54	392.95	65.58	6.992		
6,900.00	6,725.58	6,821.01	6,721.79	32.68	34.00	-89.00	215.41	728.07	458.27	392.29	65.98	6.945		
6,950.00	6,762.38	6,870.10	6,762.83	32.96	34.05	-90.01	214.32	701.18	458.14	391.73	66.41	6.899		
6,972.96	6,778.36	6,892.84	6,781.11	33.09	34.07	-90.47	213.77	687.67	458.12	391.51	66.61	6.877		
7,000.00	6,796.41	6,919.80	6,802.14	33.25	34.10	-91.02	213.08	670.82	458.14	391.28	66.86	6.852		
7,050.00	6,827.46	6,970.16	6,839.44	33.58	34.16	-92.03	211.70	637.02	458.29	390.94	67.35	6.805		
7,100.00	6,855.34	7,021.20	6,874.38	33.93	34.24	-93.04	210.19	599.88	458.57	390.70	67.87	6.756		
7,150.00	6,879.88	7,072.93	6,906.65	34.33	34.36	-94.04	208.54	559.49	458.98	390.54	68.45	6.705		
7,200.00	6,900.93	7,125.37	6,935.90	34.76	34.52	-95.01	206.77	516.03	459.52	390.44	69.08	6.652		
7,250.00	6,918.36	7,178.53	6,961.80	35.23	34.73	-95.96	204.88	469.65	460.16	390.39	69.77	6.595		
7,300.00	6,932.05	7,232.42	6,984.02	35.74	35.00	-96.88	202.88	420.61	460.89	390.35	70.54	6.534		
7,350.00	6,941.94	7,287.04	7,002.21	36.29	35.34	-97.75	200.79	369.18	461.69	390.31	71.38	6.468		
7,400.00	6,947.94	7,342.37	7,016.07	36.87	35.75	-98.58	198.61	315.68	462.53	390.24	72.29	6.398		
7,450.00	6,950.04	7,398.39	7,025.32	37.47	36.24	-99.35	196.36	260.49	463.40	390.10	73.29	6.322		
7,458.56	6,950.00	7,408.04	7,026.43	37.58	36.34	-99.48	195.97	250.90	463.54	390.07	73.48	6.309		
7,500.00	6,949.56	7,455.18	7,029.71	38.11	36.81	-99.94	194.05	203.94	464.02	389.61	74.41	6.236		
7,600.00	6,948.48	7,558.80	7,029.08	39.51	38.05	-100.01	189.83	100.41	463.87	386.82	77.05	6.021		
7,700.00	6,947.40	7,658.80	7,027.84	41.06	39.47	-99.99	185.76	0.50	463.63	383.60	80.03	5.793		
7,800.00	6,946.32	7,758.80	7,026.61	42.74	41.11	-99.98	181.69	-99.41	463.38	380.03	83.35	5.559		
7,900.00	6,945.24	7,858.80	7,025.38	44.55	42.95	-99.97	177.62	-199.32	463.14	376.16	86.98	5.325		
8,000.00	6,944.16	7,958.80	7,024.14	46.46	44.96	-99.95	173.55	-299.23	462.90	372.03	90.87	5.094		
8,100.00	6,943.08	8,058.80	7,022.91	48.47	47.12	-99.94	169.48	-399.13	462.65	367.66	94.99	4.871		
8,200.00	6,942.01	8,158.80	7,021.68	50.55	49.41	-99.92	165.41	-499.04	462.41	363.09	99.32	4.656		
8,300.00	6,940.93	8,258.79	7,020.44	52.71	51.81	-99.91	161.33	-598.95	462.17	358.34	103.83	4.451		
8,400.00	6,939.85	8,358.79	7,019.21	54.93	54.31	-99.89	157.26	-698.86	461.92	353.43	108.49	4.258		
8,500.00	6,938.77	8,458.79	7,017.97	57.20	56.89	-99.88	153.19	-798.77	461.68	348.39	113.29	4.075		
8,600.00	6,937.69	8,558.79	7,016.74	59.53	59.55	-99.87	149.12	-898.68	461.43	343.23	118.20	3.904		
8,700.00	6,936.61	8,658.79	7,015.51	61.89	62.26	-99.85	145.05	-998.59	461.19	337.96	123.23	3.743		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD													Boomerang 21-5 - Boomerang 33N-6C-M - OH - Plan #1		Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
8,800.00	6,935.54	8,758.79	7,014.27	64.30	65.04	-99.84	140.98	-1,098.50	460.95	332.60	128.34	3.592				
8,900.00	6,934.46	8,858.79	7,013.04	66.74	67.86	-99.82	136.91	-1,198.41	460.70	327.16	133.54	3.450				
9,000.00	6,933.38	8,958.79	7,011.81	69.21	70.72	-99.81	132.83	-1,298.32	460.46	321.65	138.81	3.317				
9,100.00	6,932.30	9,058.79	7,010.57	71.71	73.63	-99.79	128.76	-1,398.23	460.22	316.07	144.15	3.193				
9,200.00	6,931.22	9,158.79	7,009.34	74.23	76.57	-99.78	124.69	-1,498.13	459.97	310.43	149.54	3.076				
9,300.00	6,930.14	9,258.79	7,008.10	76.78	79.53	-99.77	120.62	-1,598.04	459.73	304.75	154.98	2.966				
9,400.00	6,929.06	9,358.79	7,006.87	79.34	82.53	-99.75	116.55	-1,697.95	459.49	299.01	160.47	2.863				
9,500.00	6,927.99	9,458.79	7,005.64	81.93	85.54	-99.74	112.48	-1,797.86	459.24	293.24	166.01	2.766				
9,600.00	6,926.91	9,558.79	7,004.40	84.53	88.58	-99.72	108.41	-1,897.77	459.00	287.42	171.58	2.675				
9,700.00	6,925.83	9,658.79	7,003.17	87.14	91.64	-99.71	104.33	-1,997.68	458.76	281.57	177.18	2.589				
9,800.00	6,924.75	9,758.79	7,001.94	89.77	94.72	-99.69	100.26	-2,097.59	458.51	275.69	182.82	2.508				
9,900.00	6,923.67	9,858.79	7,000.70	92.41	97.81	-99.68	96.19	-2,197.50	458.27	269.79	188.48	2.431				
10,000.00	6,922.59	9,958.79	6,999.47	95.07	100.91	-99.66	92.12	-2,297.41	458.03	263.85	194.17	2.359				
10,100.00	6,921.51	10,058.79	6,998.24	97.73	104.03	-99.65	88.05	-2,397.32	457.78	257.89	199.89	2.290				
10,200.00	6,920.44	10,158.79	6,997.00	100.40	107.16	-99.64	83.98	-2,497.23	457.54	251.91	205.62	2.225				
10,300.00	6,919.36	10,258.79	6,995.77	103.08	110.30	-99.62	79.90	-2,597.14	457.30	245.91	211.38	2.163				
10,400.00	6,918.28	10,358.79	6,994.53	105.77	113.45	-99.61	75.83	-2,697.04	457.05	239.90	217.16	2.105				
10,500.00	6,917.20	10,458.79	6,993.30	108.47	116.61	-99.59	71.76	-2,796.95	456.81	233.86	222.95	2.049				
10,600.00	6,916.12	10,558.79	6,992.07	111.18	119.78	-99.58	67.69	-2,896.86	456.57	227.81	228.76	1.996				
10,700.00	6,915.04	10,658.79	6,990.83	113.89	122.96	-99.56	63.62	-2,996.77	456.32	221.75	234.58	1.945				
10,800.00	6,913.96	10,758.79	6,989.60	116.61	126.14	-99.55	59.55	-3,096.68	456.08	215.67	240.41	1.897				
10,900.00	6,912.89	10,858.79	6,988.37	119.33	129.34	-99.53	55.48	-3,196.59	455.84	209.57	246.26	1.851				
11,000.00	6,911.81	10,958.79	6,987.13	122.06	132.53	-99.52	51.40	-3,296.50	455.59	203.47	252.12	1.807				
11,100.00	6,910.73	11,058.78	6,985.90	124.79	135.73	-99.50	47.33	-3,396.41	455.35	197.36	257.99	1.765				
11,200.00	6,909.65	11,158.78	6,984.67	127.53	138.94	-99.49	43.26	-3,496.32	455.11	191.23	263.88	1.725				
11,300.00	6,908.57	11,258.78	6,983.43	130.27	142.16	-99.47	39.19	-3,596.23	454.87	185.10	269.77	1.686				
11,400.00	6,907.49	11,358.78	6,982.20	133.02	145.37	-99.46	35.12	-3,696.14	454.62	178.95	275.67	1.649				
11,500.00	6,906.41	11,458.78	6,980.96	135.77	148.60	-99.45	31.05	-3,796.04	454.38	172.80	281.58	1.614				
11,600.00	6,905.34	11,558.78	6,979.73	138.52	151.82	-99.43	26.98	-3,895.95	454.14	166.64	287.50	1.580				
11,700.00	6,904.26	11,658.78	6,978.50	141.28	155.05	-99.42	22.90	-3,995.86	453.89	160.47	293.42	1.547				
11,800.00	6,903.18	11,758.78	6,977.26	144.04	158.28	-99.40	18.83	-4,095.77	453.65	154.30	299.35	1.515				
11,900.00	6,902.10	11,858.78	6,976.03	146.80	161.52	-99.39	14.76	-4,195.68	453.41	148.11	305.29	1.485 Level 3				
12,000.00	6,901.02	11,958.78	6,974.80	149.57	164.76	-99.37	10.69	-4,295.59	453.17	141.93	311.24	1.456 Level 3				
12,100.00	6,899.94	12,058.78	6,973.56	152.34	168.01	-99.36	6.62	-4,395.50	452.92	135.73	317.19	1.428 Level 3				
12,200.00	6,898.87	12,158.78	6,972.33	155.11	171.25	-99.34	2.55	-4,495.41	452.68	129.53	323.15	1.401 Level 3				
12,300.00	6,897.79	12,258.78	6,971.09	157.89	174.50	-99.33	-1.52	-4,595.32	452.44	123.33	329.11	1.375 Level 3				
12,400.00	6,896.71	12,358.78	6,969.86	160.66	177.75	-99.31	-5.60	-4,695.23	452.20	117.12	335.08	1.350 Level 3				
12,500.00	6,895.63	12,458.78	6,968.63	163.44	181.00	-99.30	-9.67	-4,795.14	451.95	110.90	341.05	1.325 Level 3				
12,600.00	6,894.55	12,558.78	6,967.39	166.22	184.26	-99.28	-13.74	-4,895.04	451.71	104.68	347.03	1.302 Level 3				
12,700.00	6,893.47	12,658.78	6,966.16	169.00	187.52	-99.27	-17.81	-4,994.95	451.47	98.45	353.01	1.279 Level 3				
12,800.00	6,892.39	12,758.78	6,964.93	171.79	190.78	-99.25	-21.88	-5,094.86	451.23	92.22	359.00	1.257 Level 3				
12,900.00	6,891.32	12,858.78	6,963.69	174.57	194.04	-99.24	-25.95	-5,194.77	450.98	85.99	364.99	1.236 Level 2				
13,000.00	6,890.24	12,958.78	6,962.46	177.36	197.30	-99.22	-30.03	-5,294.68	450.74	79.75	370.99	1.215 Level 2				
13,100.00	6,889.16	13,058.78	6,961.23	180.15	200.57	-99.21	-34.10	-5,394.59	450.50	73.51	376.99	1.195 Level 2				
13,200.00	6,888.08	13,158.78	6,959.99	182.94	203.84	-99.19	-38.17	-5,494.50	450.26	67.27	382.99	1.176 Level 2				
13,300.00	6,887.00	13,258.78	6,958.76	185.74	207.10	-99.18	-42.24	-5,594.41	450.01	61.02	388.99	1.157 Level 2				
13,400.00	6,885.92	13,358.78	6,957.52	188.53	210.37	-99.16	-46.31	-5,694.32	449.77	54.77	395.00	1.139 Level 2				
13,500.00	6,884.84	13,458.78	6,956.29	191.32	213.65	-99.15	-50.38	-5,794.23	449.53	48.51	401.02	1.121 Level 2				
13,600.00	6,883.77	13,558.78	6,955.06	194.12	216.92	-99.13	-54.45	-5,894.14	449.29	42.26	407.03	1.104 Level 2				
13,700.00	6,882.69	13,658.78	6,953.82	196.92	220.19	-99.12	-58.53	-5,994.04	449.05	35.99	413.05	1.087 Level 2				
13,800.00	6,881.61	13,758.77	6,952.59	199.72	223.47	-99.10	-62.60	-6,093.95	448.80	29.73	419.07	1.071 Level 2				
13,900.00	6,880.53	13,858.77	6,951.36	202.52	226.75	-99.09	-66.67	-6,193.86	448.56	23.46	425.10	1.055 Level 2				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 33N-6C-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,879.45	13,958.77	6,950.12	205.32	230.02	-99.07	-70.74	-6,293.77	448.32	17.20	431.12	1.040	Level 2	
14,100.00	6,878.37	14,058.77	6,948.89	208.12	233.30	-99.06	-74.81	-6,393.68	448.08	10.92	437.15	1.025	Level 2	
14,200.00	6,877.29	14,158.77	6,947.66	210.92	236.58	-99.04	-78.88	-6,493.59	447.83	4.65	443.18	1.010	Level 2	
14,300.00	6,876.22	14,258.77	6,946.42	213.73	239.86	-99.03	-82.95	-6,593.50	447.59	-1.63	449.22	0.996	Level 1	
14,400.00	6,875.14	14,358.77	6,945.19	216.53	243.15	-99.01	-87.03	-6,693.41	447.35	-7.90	455.26	0.983	Level 1	
14,500.00	6,874.06	14,458.77	6,943.95	219.34	246.43	-99.00	-91.10	-6,793.32	447.11	-14.19	461.29	0.969	Level 1	
14,600.00	6,872.98	14,558.77	6,942.72	222.15	249.71	-98.98	-95.17	-6,893.23	446.87	-20.47	467.34	0.956	Level 1	
14,700.00	6,871.90	14,658.77	6,941.49	224.95	253.00	-98.97	-99.24	-6,993.14	446.63	-26.75	473.38	0.943	Level 1	
14,800.00	6,870.82	14,758.77	6,940.25	227.76	256.28	-98.95	-103.31	-7,093.04	446.38	-33.04	479.42	0.931	Level 1	
14,900.00	6,869.75	14,858.77	6,939.02	230.57	259.57	-98.93	-107.38	-7,192.95	446.14	-39.33	485.47	0.919	Level 1	
15,000.00	6,868.67	14,958.77	6,937.79	233.38	262.86	-98.92	-111.45	-7,292.86	445.90	-45.62	491.52	0.907	Level 1	
15,100.00	6,867.59	15,058.77	6,936.55	236.19	266.14	-98.90	-115.53	-7,392.77	445.66	-51.91	497.57	0.896	Level 1	
15,200.00	6,866.51	15,158.77	6,935.32	239.00	269.43	-98.89	-119.60	-7,492.68	445.42	-58.21	503.62	0.884	Level 1	
15,300.00	6,865.43	15,258.77	6,934.08	241.81	272.72	-98.87	-123.67	-7,592.59	445.17	-64.50	509.68	0.873	Level 1	
15,400.00	6,864.35	15,358.77	6,932.85	244.63	276.01	-98.86	-127.74	-7,692.50	444.93	-70.80	515.74	0.863	Level 1	
15,500.00	6,863.27	15,458.77	6,931.62	247.44	279.30	-98.84	-131.81	-7,792.41	444.69	-77.10	521.79	0.852	Level 1	
15,600.00	6,862.20	15,558.77	6,930.38	250.25	282.59	-98.83	-135.88	-7,892.32	444.45	-83.40	527.85	0.842	Level 1	
15,618.10	6,862.00	15,576.86	6,930.16	250.76	283.19	-98.82	-136.62	-7,910.40	444.41	-84.54	528.95	0.840	Level 1, ES, SF	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	3.28	3.28	-174.52	-104.55	-10.02	105.03					
100.00	100.00	100.00	100.00	3.28	3.28	-174.52	-104.55	-10.02	105.03	98.46	6.57	15.988		
200.00	200.00	200.00	200.00	3.34	3.34	-174.52	-104.55	-10.02	105.03	98.36	6.67	15.738	CC, ES	
300.00	299.98	299.98	299.98	3.44	3.44	134.25	-104.55	-10.02	106.24	99.35	6.89	15.422		
400.00	399.84	397.50	397.48	3.61	3.59	135.41	-105.75	-8.87	111.01	103.81	7.20	15.416		
500.00	499.45	494.62	494.47	3.81	3.78	136.28	-109.31	-5.43	120.42	112.81	7.60	15.840		
600.00	598.70	591.03	590.53	4.06	4.00	136.80	-115.18	0.24	134.40	126.32	8.08	16.626		
700.00	697.47	686.45	685.28	4.35	4.26	137.02	-123.28	8.06	152.89	144.26	8.63	17.713		
800.00	795.62	780.59	778.34	4.66	4.54	136.99	-133.48	17.92	175.80	166.57	9.23	19.040		
900.00	893.06	876.66	873.01	5.01	4.86	137.09	-145.24	29.26	202.31	192.43	9.88	20.472		
961.44	952.51	935.51	931.00	5.25	5.07	137.39	-152.44	36.22	219.83	209.53	10.30	21.334		
1,000.00	989.71	972.35	967.31	5.40	5.20	137.76	-156.95	40.58	231.13	220.56	10.58	21.855		
1,100.00	1,086.20	1,067.89	1,061.45	5.81	5.56	138.58	-168.65	51.87	260.47	249.18	11.30	23.054		
1,200.00	1,182.69	1,163.43	1,155.60	6.24	5.93	139.24	-180.35	63.17	289.85	277.80	12.05	24.048		
1,300.00	1,279.18	1,258.97	1,249.74	6.69	6.32	139.77	-192.04	74.47	319.26	306.43	12.83	24.875		
1,400.00	1,375.67	1,354.51	1,343.89	7.15	6.72	140.22	-203.74	85.76	348.69	335.06	13.64	25.568		
1,500.00	1,472.15	1,450.05	1,438.03	7.62	7.12	140.59	-215.44	97.06	378.14	363.68	14.46	26.152		
1,600.00	1,568.64	1,545.59	1,532.18	8.10	7.54	140.91	-227.14	108.36	407.60	392.30	15.30	26.648		
1,700.00	1,665.13	1,641.13	1,626.32	8.59	7.96	141.19	-238.84	119.65	437.07	420.92	16.15	27.071		
1,800.00	1,761.62	1,736.67	1,720.47	9.08	8.38	141.43	-250.53	130.95	466.54	449.54	17.01	27.435		
1,900.00	1,858.11	1,832.21	1,814.61	9.58	8.81	141.64	-262.23	142.25	496.03	478.15	17.88	27.749		
2,000.00	1,954.60	1,927.75	1,908.76	10.08	9.24	141.83	-273.93	153.54	525.51	506.76	18.75	28.023		
2,100.00	2,051.09	2,023.29	2,002.90	10.59	9.68	142.00	-285.63	164.84	555.01	535.37	19.64	28.262		
2,200.00	2,147.57	2,118.83	2,097.05	11.09	10.12	142.16	-297.32	176.13	584.51	563.98	20.53	28.473		
2,300.00	2,244.06	2,214.37	2,191.19	11.61	10.56	142.29	-309.02	187.43	614.01	592.58	21.42	28.659		
2,400.00	2,340.55	2,309.90	2,285.34	12.12	11.00	142.42	-320.72	198.73	643.51	621.19	22.33	28.824		
2,500.00	2,437.04	2,405.44	2,379.49	12.64	11.45	142.53	-332.42	210.02	673.02	649.79	23.23	28.971		
2,600.00	2,533.53	2,500.98	2,473.63	13.15	11.89	142.64	-344.12	221.32	702.53	678.39	24.14	29.104		
2,700.00	2,630.02	2,603.48	2,567.78	13.67	12.37	142.73	-355.81	232.62	732.04	706.95	25.08	29.185		
2,800.00	2,726.50	2,707.94	2,661.92	14.19	12.87	142.82	-367.51	243.91	761.55	735.51	26.04	29.247		
2,900.00	2,822.99	2,787.60	2,756.07	14.72	13.24	142.90	-379.21	255.21	791.06	764.18	26.88	29.427		
3,000.00	2,919.48	2,883.14	2,850.21	15.24	13.70	142.98	-390.91	266.51	820.58	792.78	27.80	29.515		
3,100.00	3,015.97	2,978.68	2,944.36	15.76	14.15	143.05	-402.60	277.80	850.10	821.37	28.72	29.596		
3,200.00	3,112.46	3,074.22	3,038.50	16.29	14.60	143.12	-414.30	289.10	879.61	849.97	29.65	29.669		
3,300.00	3,208.95	3,169.76	3,132.65	16.81	15.06	143.18	-426.00	300.39	909.13	878.56	30.57	29.737		
3,400.00	3,305.44	3,265.30	3,226.79	17.34	15.51	143.24	-437.70	311.69	938.65	907.15	31.50	29.799		
3,500.00	3,401.92	3,360.84	3,320.94	17.87	15.97	143.29	-449.39	322.99	968.17	935.74	32.43	29.856		
3,600.00	3,498.41	3,456.38	3,415.08	18.40	16.43	143.34	-461.09	334.28	997.69	964.34	33.36	29.909		
3,700.00	3,594.90	3,551.92	3,509.23	18.93	16.89	143.39	-472.79	345.58	1,027.22	992.93	34.29	29.958		
3,800.00	3,691.39	3,647.46	3,603.38	19.46	17.35	143.44	-484.49	356.88	1,056.74	1,021.52	35.22	30.003		
3,900.00	3,787.88	3,743.00	3,697.52	19.99	17.80	143.48	-496.19	368.17	1,086.26	1,050.11	36.15	30.045		
4,000.00	3,884.37	3,838.54	3,791.67	20.52	18.26	143.52	-507.88	379.47	1,115.79	1,078.70	37.09	30.084		
4,100.00	3,980.85	3,934.08	3,885.81	21.05	18.72	143.56	-519.58	390.76	1,145.31	1,107.29	38.02	30.121		
4,200.00	4,077.34	4,029.62	3,979.96	21.58	19.18	143.60	-531.28	402.06	1,174.83	1,135.87	38.96	30.155		
4,300.00	4,173.83	4,125.15	4,074.10	22.11	19.64	143.63	-542.98	413.36	1,204.36	1,164.46	39.90	30.187		
4,390.25	4,260.91	4,211.38	4,159.07	22.59	20.06	143.66	-553.53	423.55	1,231.01	1,190.26	40.74	30.214		
4,400.00	4,270.32	4,220.70	4,168.25	22.64	20.10	143.70	-554.67	424.65	1,233.87	1,193.04	40.83	30.217		
4,500.00	4,367.33	4,316.72	4,262.87	23.16	20.57	144.01	-566.43	436.01	1,261.78	1,220.02	41.77	30.211		
4,600.00	4,465.13	4,413.45	4,358.19	23.65	21.04	144.20	-578.27	447.44	1,286.98	1,244.29	42.69	30.149		
4,700.00	4,563.60	4,510.78	4,454.10	24.12	21.51	144.26	-590.19	458.95	1,309.43	1,265.83	43.60	30.033		
4,800.00	4,662.61	4,608.60	4,550.49	24.56	21.98	144.21	-602.17	470.52	1,329.14	1,284.64	44.50	29.867		
4,900.00	4,762.05	4,706.77	4,647.23	24.98	22.45	144.04	-614.19	482.13	1,346.11	1,300.72	45.39	29.656		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,805.19	4,744.21	25.38	22.93	143.76	-626.24	493.76	1,360.36	1,314.09	46.27	29.402		
5,100.00	4,961.73	4,903.72	4,841.31	25.76	23.41	143.38	-638.30	505.41	1,371.91	1,324.78	47.13	29.109		
5,151.69	5,013.42	4,954.66	4,891.51	25.95	23.65	-164.97	-644.54	511.44	1,376.84	1,329.27	47.57	28.943		
5,200.00	5,061.73	5,002.27	4,938.42	26.13	23.89	-165.26	-650.37	517.07	1,381.14	1,333.16	47.98	28.786		
5,300.00	5,161.73	5,100.81	5,035.52	26.49	24.36	-165.86	-662.43	528.72	1,390.14	1,341.32	48.83	28.471		
5,400.00	5,261.73	5,200.65	5,132.62	26.86	24.85	-166.44	-674.50	540.37	1,399.29	1,349.61	49.68	28.166		
5,500.00	5,361.73	5,297.89	5,229.72	27.23	25.32	-167.02	-686.56	552.02	1,408.59	1,358.07	50.52	27.880		
5,600.00	5,461.73	5,403.57	5,326.83	27.60	25.83	-167.59	-698.63	563.67	1,418.04	1,366.63	51.41	27.584		
5,700.00	5,561.73	5,505.03	5,423.93	27.97	26.33	-168.15	-710.69	575.32	1,427.62	1,375.35	52.27	27.310		
5,800.00	5,661.73	5,606.49	5,521.03	28.35	26.82	-168.71	-722.76	586.97	1,437.34	1,384.20	53.14	27.048		
5,900.00	5,761.73	5,707.95	5,618.14	28.72	27.31	-169.26	-734.83	598.62	1,447.20	1,393.19	54.01	26.796		
6,000.00	5,861.73	5,809.41	5,715.24	29.10	27.80	-169.80	-746.89	610.27	1,457.18	1,402.31	54.87	26.555		
6,100.00	5,961.73	5,889.13	5,812.34	29.48	28.19	-170.33	-758.96	621.93	1,467.30	1,411.66	55.64	26.371		
6,200.00	6,061.73	5,987.68	5,909.44	29.86	28.67	-170.86	-771.02	633.58	1,477.54	1,421.05	56.50	26.153		
6,300.00	6,161.73	6,086.22	6,006.55	30.25	29.15	-171.38	-783.09	645.23	1,487.91	1,430.56	57.35	25.944		
6,400.00	6,261.73	6,184.76	6,103.65	30.63	29.63	-171.89	-795.15	656.88	1,498.40	1,440.19	58.21	25.742		
6,451.69	6,313.42	6,235.69	6,153.84	30.83	29.88	-172.16	-801.39	662.90	1,503.87	1,445.22	58.65	25.641		
6,500.00	6,361.68	6,283.05	6,200.50	31.01	30.11	-79.58	-807.19	668.50	1,508.69	1,449.63	59.06	25.546		
6,550.00	6,411.34	6,331.33	6,248.08	31.20	30.34	-79.64	-813.10	674.21	1,513.05	1,453.99	59.47	25.444		
6,600.00	6,460.39	6,378.58	6,294.64	31.38	30.57	-79.87	-818.88	679.80	1,516.84	1,456.97	59.87	25.335		
6,650.00	6,508.54	6,424.51	6,339.90	31.58	30.80	-80.25	-824.51	685.23	1,520.15	1,459.88	60.27	25.221		
6,700.00	6,555.48	6,468.83	6,383.57	31.78	31.01	-80.76	-829.93	690.47	1,523.10	1,462.43	60.67	25.103		
6,750.00	6,600.93	6,511.26	6,425.39	31.98	31.22	-81.36	-835.13	695.48	1,525.81	1,464.74	61.07	24.983		
6,800.00	6,644.61	6,551.56	6,465.10	32.20	31.41	-82.02	-840.06	700.25	1,528.45	1,466.98	61.47	24.863		
6,850.00	6,686.25	6,589.47	6,502.46	32.44	31.60	-82.70	-844.70	704.73	1,531.17	1,469.29	61.88	24.744		
6,900.00	6,725.58	6,622.16	6,534.79	32.68	31.75	-83.26	-848.75	707.37	1,534.18	1,471.92	62.26	24.641		
6,950.00	6,762.38	6,656.52	6,568.86	32.96	31.90	-83.86	-853.05	708.37	1,537.55	1,474.86	62.69	24.525		
7,000.00	6,796.41	6,692.00	6,604.04	33.25	32.05	-84.46	-857.53	707.47	1,541.33	1,478.16	63.17	24.400		
7,050.00	6,827.46	6,728.83	6,640.44	33.58	32.19	-85.09	-862.22	704.44	1,545.52	1,481.82	63.70	24.263		
7,100.00	6,855.34	6,767.32	6,678.22	33.93	32.33	-85.73	-867.13	699.01	1,550.17	1,485.88	64.28	24.115		
7,150.00	6,879.88	6,807.88	6,717.60	34.33	32.47	-86.40	-872.31	690.81	1,555.27	1,490.35	64.92	23.956		
7,200.00	6,900.93	6,851.06	6,758.84	34.76	32.61	-87.10	-877.80	679.33	1,560.85	1,495.23	65.62	23.787		
7,250.00	6,918.36	6,897.57	6,802.30	35.23	32.76	-87.87	-883.66	663.83	1,566.88	1,500.52	66.36	23.611		
7,300.00	6,932.05	6,948.45	6,848.39	35.74	32.92	-88.71	-889.96	643.26	1,573.34	1,506.20	67.14	23.433		
7,350.00	6,941.94	7,005.14	6,897.64	36.29	33.09	-89.66	-896.81	616.06	1,580.18	1,512.23	67.95	23.255		
7,400.00	6,947.94	7,069.72	6,950.53	36.87	33.29	-90.77	-904.32	579.83	1,587.30	1,518.52	68.78	23.078		
7,450.00	6,950.04	7,145.23	7,007.36	37.47	33.53	-92.10	-912.61	530.88	1,594.55	1,524.93	69.62	22.903		
7,458.56	6,950.00	7,159.54	7,017.46	37.58	33.58	-92.36	-914.12	520.85	1,595.78	1,526.01	69.77	22.872		
7,500.00	6,949.56	7,238.41	7,068.91	38.11	33.87	-94.23	-921.95	461.67	1,601.56	1,531.02	70.54	22.703		
7,600.00	6,948.48	7,507.77	7,183.02	39.51	35.45	-98.35	-941.75	220.69	1,611.20	1,537.77	73.43	21.942		
7,700.00	6,947.40	7,720.14	7,199.05	41.06	37.60	-99.01	-948.44	9.77	1,610.47	1,533.24	77.24	20.851		
7,800.00	6,946.32	7,820.11	7,197.23	42.74	38.91	-98.99	-950.42	-90.17	1,608.07	1,527.80	80.27	20.033		
7,900.00	6,945.24	7,920.08	7,195.42	44.55	40.38	-98.98	-952.39	-190.10	1,605.67	1,522.09	83.58	19.212		
8,000.00	6,944.16	8,020.05	7,193.60	46.46	42.01	-98.97	-954.37	-290.03	1,603.26	1,516.14	87.12	18.403		
8,100.00	6,943.08	8,120.02	7,191.78	48.47	43.77	-98.96	-956.35	-389.97	1,600.86	1,509.98	90.88	17.615		
8,200.00	6,942.01	8,219.99	7,189.97	50.55	45.64	-98.94	-958.32	-489.90	1,598.46	1,503.63	94.82	16.857		
8,300.00	6,940.93	8,319.96	7,188.15	52.71	47.61	-98.93	-960.30	-589.84	1,596.06	1,497.12	98.93	16.133		
8,400.00	6,939.85	8,419.93	7,186.33	54.93	49.67	-98.92	-962.27	-689.77	1,593.65	1,490.47	103.19	15.444		
8,500.00	6,938.77	8,519.90	7,184.52	57.20	51.80	-98.90	-964.25	-789.71	1,591.25	1,483.68	107.57	14.793		
8,600.00	6,937.69	8,619.87	7,182.70	59.53	54.00	-98.89	-966.22	-889.64	1,588.85	1,476.78	112.06	14.178		
8,700.00	6,936.61	8,719.84	7,180.88	61.89	56.26	-98.88	-968.20	-989.58	1,586.45	1,469.79	116.66	13.599		
8,800.00	6,935.54	8,819.81	7,179.07	64.30	58.57	-98.86	-970.17	-1,089.51	1,584.04	1,462.70	121.34	13.054		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Boomerang 34C-6-M - OH - Plan #1	Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,900.00	6,934.46	8,919.78	7,177.25	66.74	60.93	-98.85	-972.15	-1,189.44	1,581.64	1,455.54	126.10	12.542			
9,000.00	6,933.38	9,019.75	7,175.43	69.21	63.33	-98.83	-974.13	-1,289.38	1,579.24	1,448.30	130.94	12.061			
9,100.00	6,932.30	9,119.73	7,173.62	71.71	65.76	-98.82	-976.10	-1,389.31	1,576.84	1,441.01	135.83	11.609			
9,200.00	6,931.22	9,219.70	7,171.80	74.23	68.23	-98.81	-978.08	-1,489.25	1,574.43	1,433.66	140.78	11.184			
9,300.00	6,930.14	9,319.67	7,169.98	76.78	70.72	-98.79	-980.05	-1,589.18	1,572.03	1,426.25	145.78	10.784			
9,400.00	6,929.06	9,419.64	7,168.17	79.34	73.24	-98.78	-982.03	-1,689.12	1,569.63	1,418.81	150.82	10.407			
9,500.00	6,927.99	9,519.61	7,166.35	81.93	75.79	-98.77	-984.00	-1,789.05	1,567.23	1,411.32	155.91	10.052			
9,600.00	6,926.91	9,619.58	7,164.53	84.53	78.35	-98.75	-985.98	-1,888.98	1,564.83	1,403.79	161.03	9.717			
9,700.00	6,925.83	9,719.55	7,162.72	87.14	80.93	-98.74	-987.96	-1,988.92	1,562.43	1,396.24	166.19	9.401			
9,800.00	6,924.75	9,819.52	7,160.90	89.77	83.53	-98.72	-989.93	-2,088.85	1,560.02	1,388.65	171.38	9.103			
9,900.00	6,923.67	9,919.49	7,159.08	92.41	86.15	-98.71	-991.91	-2,188.79	1,557.62	1,381.03	176.59	8.820			
10,000.00	6,922.59	10,019.46	7,157.27	95.07	88.78	-98.70	-993.88	-2,288.72	1,555.22	1,373.39	181.83	8.553			
10,100.00	6,921.51	10,119.43	7,155.45	97.73	91.42	-98.68	-995.86	-2,388.66	1,552.82	1,365.72	187.10	8.300			
10,200.00	6,920.44	10,219.40	7,153.63	100.40	94.08	-98.67	-997.83	-2,488.59	1,550.42	1,358.04	192.38	8.059			
10,300.00	6,919.36	10,319.37	7,151.82	103.08	96.75	-98.65	-999.81	-2,588.53	1,548.02	1,350.33	197.69	7.831			
10,400.00	6,918.28	10,419.34	7,150.00	105.77	99.42	-98.64	-1,001.78	-2,688.46	1,545.62	1,342.61	203.01	7.613			
10,500.00	6,917.20	10,519.31	7,148.18	108.47	102.11	-98.63	-1,003.76	-2,788.39	1,543.22	1,334.86	208.35	7.407			
10,600.00	6,916.12	10,619.28	7,146.37	111.18	104.80	-98.61	-1,005.74	-2,888.33	1,540.82	1,327.11	213.71	7.210			
10,700.00	6,915.04	10,719.25	7,144.55	113.89	107.50	-98.60	-1,007.71	-2,988.26	1,538.42	1,319.34	219.08	7.022			
10,800.00	6,913.96	10,819.22	7,142.73	116.61	110.21	-98.58	-1,009.69	-3,088.20	1,536.02	1,311.55	224.46	6.843			
10,900.00	6,912.89	10,919.19	7,140.92	119.33	112.93	-98.57	-1,011.66	-3,188.13	1,533.62	1,303.75	229.86	6.672			
11,000.00	6,911.81	11,019.16	7,139.10	122.06	115.65	-98.55	-1,013.64	-3,288.07	1,531.21	1,295.95	235.27	6.508			
11,100.00	6,910.73	11,119.13	7,137.28	124.79	118.38	-98.54	-1,015.61	-3,388.00	1,528.81	1,288.13	240.69	6.352			
11,200.00	6,909.65	11,219.10	7,135.47	127.53	121.11	-98.53	-1,017.59	-3,487.94	1,526.41	1,280.30	246.12	6.202			
11,300.00	6,908.57	11,319.07	7,133.65	130.27	123.85	-98.51	-1,019.57	-3,587.87	1,524.01	1,272.46	251.56	6.058			
11,400.00	6,907.49	11,419.05	7,131.83	133.02	126.60	-98.50	-1,021.54	-3,687.80	1,521.61	1,264.61	257.01	5.921			
11,500.00	6,906.41	11,519.02	7,130.02	135.77	129.35	-98.48	-1,023.52	-3,787.74	1,519.21	1,256.75	262.46	5.788			
11,600.00	6,905.34	11,618.99	7,128.20	138.52	132.10	-98.47	-1,025.49	-3,887.67	1,516.82	1,248.89	267.93	5.661			
11,700.00	6,904.26	11,718.96	7,126.38	141.28	134.85	-98.45	-1,027.47	-3,987.61	1,514.42	1,241.01	273.40	5.539			
11,800.00	6,903.18	11,818.93	7,124.57	144.04	137.61	-98.44	-1,029.44	-4,087.54	1,512.02	1,233.13	278.88	5.422			
11,900.00	6,902.10	11,918.90	7,122.75	146.80	140.38	-98.42	-1,031.42	-4,187.48	1,509.62	1,225.25	284.37	5.309			
12,000.00	6,901.02	12,018.87	7,120.94	149.57	143.14	-98.41	-1,033.39	-4,287.41	1,507.22	1,217.36	289.86	5.200			
12,100.00	6,899.94	12,118.84	7,119.12	152.34	145.91	-98.39	-1,035.37	-4,387.35	1,504.82	1,209.46	295.36	5.095			
12,200.00	6,898.87	12,218.81	7,117.30	155.11	148.69	-98.38	-1,037.35	-4,487.28	1,502.42	1,201.55	300.87	4.994			
12,300.00	6,897.79	12,318.78	7,115.49	157.89	151.46	-98.36	-1,039.32	-4,587.21	1,500.02	1,193.64	306.38	4.896			
12,400.00	6,896.71	12,418.75	7,113.67	160.66	154.24	-98.35	-1,041.30	-4,687.15	1,497.62	1,185.73	311.89	4.802			
12,500.00	6,895.63	12,518.72	7,111.85	163.44	157.02	-98.33	-1,043.27	-4,787.08	1,495.22	1,177.81	317.41	4.711			
12,600.00	6,894.55	12,618.69	7,110.04	166.22	159.80	-98.32	-1,045.25	-4,887.02	1,492.82	1,169.89	322.94	4.623			
12,700.00	6,893.47	12,718.66	7,108.22	169.00	162.59	-98.30	-1,047.22	-4,986.95	1,490.43	1,161.96	328.47	4.538			
12,800.00	6,892.39	12,818.63	7,106.40	171.79	165.38	-98.29	-1,049.20	-5,086.89	1,488.03	1,154.03	334.00	4.455			
12,900.00	6,891.32	12,918.60	7,104.59	174.57	168.17	-98.27	-1,051.17	-5,186.82	1,485.63	1,146.09	339.54	4.375			
13,000.00	6,890.24	13,018.57	7,102.77	177.36	170.96	-98.26	-1,053.15	-5,286.75	1,483.23	1,138.15	345.08	4.298			
13,100.00	6,889.16	13,118.54	7,100.95	180.15	173.75	-98.24	-1,055.13	-5,386.69	1,480.83	1,130.21	350.63	4.223			
13,200.00	6,888.08	13,218.51	7,099.14	182.94	176.54	-98.23	-1,057.10	-5,486.62	1,478.43	1,122.26	356.17	4.151			
13,300.00	6,887.00	13,318.48	7,097.32	185.74	179.34	-98.21	-1,059.08	-5,586.56	1,476.04	1,114.31	361.73	4.081			
13,400.00	6,885.92	13,418.45	7,095.50	188.53	182.14	-98.19	-1,061.05	-5,686.49	1,473.64	1,106.35	367.28	4.012			
13,500.00	6,884.84	13,518.42	7,093.69	191.32	184.94	-98.18	-1,063.03	-5,786.43	1,471.24	1,098.40	372.84	3.946			
13,600.00	6,883.77	13,618.40	7,091.87	194.12	187.74	-98.16	-1,065.00	-5,886.36	1,468.84	1,090.44	378.40	3.882			
13,700.00	6,882.69	13,718.37	7,090.05	196.92	190.54	-98.15	-1,066.98	-5,986.30	1,466.45	1,082.48	383.97	3.819			
13,800.00	6,881.61	13,818.34	7,088.24	199.72	193.34	-98.13	-1,068.96	-6,086.23	1,464.05	1,074.51	389.54	3.758			
13,900.00	6,880.53	13,918.31	7,086.42	202.52	196.15	-98.12	-1,070.93	-6,186.16	1,461.65	1,066.54	395.11	3.699			
14,000.00	6,879.45	14,018.28	7,084.60	205.32	198.96	-98.10	-1,072.91	-6,286.10	1,459.25	1,058.57	400.68	3.642			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34C-6-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,878.37	14,118.25	7,082.79	208.12	201.76	-98.08	-1,074.88	-6,386.03	1,456.86	1,050.60	406.26	3.586		
14,200.00	6,877.29	14,218.22	7,080.97	210.92	204.57	-98.07	-1,076.86	-6,485.97	1,454.46	1,042.62	411.84	3.532		
14,300.00	6,876.22	14,318.19	7,079.15	213.73	207.38	-98.05	-1,078.83	-6,585.90	1,452.06	1,034.65	417.42	3.479		
14,400.00	6,875.14	14,418.16	7,077.34	216.53	210.19	-98.04	-1,080.81	-6,685.84	1,449.67	1,026.67	423.00	3.427		
14,500.00	6,874.06	14,518.13	7,075.52	219.34	213.00	-98.02	-1,082.78	-6,785.77	1,447.27	1,018.68	428.59	3.377		
14,600.00	6,872.98	14,618.10	7,073.70	222.15	215.81	-98.00	-1,084.76	-6,885.71	1,444.87	1,010.70	434.17	3.328		
14,700.00	6,871.90	14,718.07	7,071.89	224.95	218.63	-97.99	-1,086.74	-6,985.64	1,442.48	1,002.71	439.76	3.280		
14,800.00	6,870.82	14,818.04	7,070.07	227.76	221.44	-97.97	-1,088.71	-7,085.57	1,440.08	994.73	445.35	3.234		
14,900.00	6,869.75	14,918.01	7,068.25	230.57	224.26	-97.95	-1,090.69	-7,185.51	1,437.68	986.74	450.95	3.188		
15,000.00	6,868.67	15,017.98	7,066.44	233.38	227.07	-97.94	-1,092.66	-7,285.44	1,435.29	978.75	456.54	3.144		
15,100.00	6,867.59	15,117.95	7,064.62	236.19	229.89	-97.92	-1,094.64	-7,385.38	1,432.89	970.75	462.14	3.101		
15,200.00	6,866.51	15,217.92	7,062.80	239.00	232.71	-97.90	-1,096.61	-7,485.31	1,430.50	962.76	467.74	3.058		
15,300.00	6,865.43	15,317.89	7,060.99	241.81	235.52	-97.89	-1,098.59	-7,585.25	1,428.10	954.76	473.34	3.017		
15,400.00	6,864.35	15,417.86	7,059.17	244.63	238.34	-97.87	-1,100.56	-7,685.18	1,425.71	946.76	478.94	2.977		
15,500.00	6,863.27	15,517.83	7,057.35	247.44	241.16	-97.85	-1,102.54	-7,785.12	1,423.31	938.76	484.55	2.937		
15,600.00	6,862.20	15,617.80	7,055.54	250.25	243.98	-97.84	-1,104.52	-7,885.05	1,420.92	930.76	490.15	2.899		
15,618.10	6,862.00	15,635.89	7,055.21	250.76	244.49	-97.83	-1,104.87	-7,903.13	1,420.48	929.31	491.17	2.892 SF		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34N-6A-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	3.28	3.28	-174.50	-89.62	-8.63	90.03					
100.00	100.00	100.00	100.00	3.28	3.28	-174.50	-89.62	-8.63	90.03	83.46	6.57	13.705		
200.00	200.00	200.00	200.00	3.34	3.34	-174.50	-89.62	-8.63	90.03	83.36	6.67	13.490	CC, ES	
300.00	299.98	299.98	299.98	3.44	3.44	134.38	-89.62	-8.63	91.24	84.36	6.89	13.245		
400.00	399.84	398.10	398.08	3.61	3.59	135.68	-90.70	-7.35	95.89	88.68	7.20	13.315		
500.00	499.45	495.87	495.71	3.81	3.78	136.50	-93.93	-3.51	104.89	97.29	7.60	13.797		
600.00	598.70	593.01	592.50	4.06	4.01	136.86	-99.26	2.82	118.19	110.10	8.08	14.620		
700.00	697.47	689.28	688.08	4.35	4.27	136.84	-106.63	11.57	135.72	127.09	8.63	15.720		
800.00	795.62	785.61	782.09	4.66	4.56	136.54	-115.93	22.62	157.43	148.19	9.24	17.031		
900.00	893.06	881.21	877.52	5.01	4.88	136.51	-126.44	35.10	182.43	172.54	9.90	18.436		
961.44	952.51	940.34	935.81	5.25	5.09	136.79	-132.86	42.72	199.02	188.70	10.32	19.280		
1,000.00	989.71	977.36	972.30	5.40	5.22	137.15	-136.88	47.49	209.73	199.13	10.60	19.791		
1,100.00	1,086.20	1,073.38	1,066.94	5.81	5.58	137.94	-147.30	59.87	237.53	226.20	11.33	20.968		
1,200.00	1,182.69	1,169.39	1,161.58	6.24	5.96	138.56	-157.72	72.24	265.36	253.27	12.09	21.947		
1,300.00	1,279.18	1,265.40	1,256.22	6.69	6.35	139.06	-168.14	84.61	293.21	280.33	12.88	22.765		
1,400.00	1,375.67	1,361.42	1,350.86	7.15	6.75	139.48	-178.56	96.99	321.08	307.39	13.69	23.452		
1,500.00	1,472.15	1,457.43	1,445.50	7.62	7.16	139.83	-188.98	109.36	348.97	334.45	14.52	24.034		
1,600.00	1,568.64	1,553.44	1,540.15	8.10	7.57	140.12	-199.40	121.74	376.86	361.50	15.36	24.529		
1,700.00	1,665.13	1,649.46	1,634.79	8.59	7.99	140.38	-209.82	134.11	404.77	388.55	16.22	24.953		
1,800.00	1,761.62	1,745.47	1,729.43	9.08	8.42	140.60	-220.24	146.49	432.68	415.59	17.09	25.319		
1,900.00	1,858.11	1,841.49	1,824.07	9.58	8.85	140.80	-230.66	158.86	460.59	442.63	17.97	25.637		
2,000.00	1,954.60	1,937.50	1,918.71	10.08	9.28	140.97	-241.08	171.23	488.51	469.66	18.85	25.915		
2,100.00	2,051.09	2,033.51	2,013.35	10.59	9.72	141.13	-251.50	183.61	516.43	496.69	19.74	26.158		
2,200.00	2,147.57	2,129.53	2,107.99	11.09	10.16	141.27	-261.92	195.98	544.36	523.72	20.64	26.373		
2,300.00	2,244.06	2,225.54	2,202.63	11.61	10.60	141.39	-272.34	208.36	572.29	550.75	21.54	26.564		
2,400.00	2,340.55	2,321.55	2,297.27	12.12	11.05	141.51	-282.76	220.73	600.22	577.77	22.45	26.735		
2,500.00	2,437.04	2,417.57	2,391.91	12.64	11.49	141.61	-293.18	233.11	628.15	604.79	23.36	26.887		
2,600.00	2,533.53	2,513.58	2,486.55	13.15	11.94	141.71	-303.60	245.48	656.09	631.81	24.28	27.024		
2,700.00	2,630.02	2,609.59	2,581.19	13.67	12.39	141.79	-314.02	257.85	684.03	658.83	25.20	27.148		
2,800.00	2,726.50	2,705.61	2,675.84	14.19	12.85	141.87	-324.44	270.23	711.96	685.85	26.12	27.260		
2,900.00	2,822.99	2,801.62	2,770.48	14.72	13.30	141.95	-334.86	282.60	739.90	712.86	27.04	27.361		
3,000.00	2,919.48	2,902.37	2,865.12	15.24	13.77	142.02	-345.28	294.98	767.84	739.85	27.99	27.433		
3,100.00	3,015.97	3,006.35	2,959.76	15.76	14.27	142.08	-355.70	307.35	795.78	766.83	28.96	27.483		
3,200.00	3,112.46	3,089.66	3,054.40	16.29	14.66	142.14	-366.12	319.73	823.73	793.90	29.83	27.617		
3,300.00	3,208.95	3,185.67	3,149.04	16.81	15.12	142.20	-376.54	332.10	851.67	820.91	30.76	27.689		
3,400.00	3,305.44	3,281.69	3,243.68	17.34	15.58	142.25	-386.96	344.47	879.61	847.92	31.69	27.755		
3,500.00	3,401.92	3,377.70	3,338.32	17.87	16.03	142.30	-397.38	356.85	907.56	874.93	32.63	27.816		
3,600.00	3,498.41	3,473.71	3,432.96	18.40	16.49	142.34	-407.80	369.22	935.50	901.94	33.56	27.873		
3,700.00	3,594.90	3,569.73	3,527.60	18.93	16.95	142.39	-418.22	381.60	963.45	928.94	34.50	27.925		
3,800.00	3,691.39	3,665.74	3,622.24	19.46	17.41	142.43	-428.64	393.97	991.39	955.95	35.44	27.974		
3,900.00	3,787.88	3,761.76	3,716.88	19.99	17.87	142.47	-439.06	406.35	1,019.34	982.96	36.38	28.020		
4,000.00	3,884.37	3,857.77	3,811.53	20.52	18.33	142.50	-449.48	418.72	1,047.28	1,009.96	37.32	28.062		
4,100.00	3,980.85	3,953.78	3,906.17	21.05	18.79	142.54	-459.90	431.10	1,075.23	1,036.97	38.26	28.102		
4,200.00	4,077.34	4,049.80	4,000.81	21.58	19.26	142.57	-470.32	443.47	1,103.18	1,063.97	39.20	28.139		
4,300.00	4,173.83	4,145.81	4,095.45	22.11	19.72	142.60	-480.74	455.84	1,131.13	1,090.98	40.15	28.174		
4,390.25	4,260.91	4,232.46	4,180.86	22.59	20.14	142.63	-490.15	467.01	1,156.35	1,115.35	41.00	28.204		
4,400.00	4,270.32	4,241.83	4,190.09	22.64	20.18	142.67	-491.16	468.22	1,159.06	1,117.97	41.09	28.207		
4,500.00	4,367.33	4,338.28	4,285.17	23.16	20.65	142.96	-501.63	480.65	1,185.41	1,143.38	42.03	28.205		
4,600.00	4,465.13	4,435.40	4,380.90	23.65	21.11	143.12	-512.17	493.17	1,209.07	1,166.11	42.96	28.146		
4,700.00	4,563.60	4,533.06	4,477.16	24.12	21.58	143.14	-522.77	505.75	1,230.01	1,186.14	43.87	28.035		
4,800.00	4,662.61	4,631.14	4,573.84	24.56	22.06	143.05	-533.41	518.39	1,248.25	1,203.47	44.78	27.875		
4,900.00	4,762.05	4,729.52	4,670.81	24.98	22.53	142.83	-544.09	531.07	1,263.79	1,218.11	45.67	27.670		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34N-6A-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,828.08	4,767.97	25.38	23.01	142.49	-554.79	543.78	1,276.65	1,230.10	46.55	27.423		
5,100.00	4,961.73	4,926.71	4,865.18	25.76	23.49	142.04	-565.49	556.49	1,286.87	1,239.45	47.42	27.139		
5,151.69	5,013.42	4,977.68	4,915.42	25.95	23.73	-166.34	-571.02	563.06	1,291.14	1,243.28	47.86	26.978		
5,200.00	5,061.73	5,025.29	4,962.36	26.13	23.96	-166.66	-576.19	569.19	1,294.83	1,246.56	48.27	26.825		
5,300.00	5,161.73	5,123.86	5,059.52	26.49	24.44	-167.32	-586.89	581.90	1,302.59	1,253.47	49.12	26.520		
5,400.00	5,261.73	5,222.43	5,156.68	26.86	24.92	-167.96	-597.58	594.60	1,310.52	1,260.55	49.97	26.227		
5,500.00	5,361.73	5,321.00	5,253.84	27.23	25.39	-168.60	-608.28	607.30	1,318.62	1,267.80	50.82	25.947		
5,600.00	5,461.73	5,419.57	5,351.00	27.60	25.87	-169.23	-618.98	620.01	1,326.88	1,275.21	51.67	25.679		
5,700.00	5,561.73	5,518.14	5,448.16	27.97	26.35	-169.86	-629.68	632.71	1,335.31	1,282.78	52.52	25.423		
5,800.00	5,661.73	5,616.71	5,545.32	28.35	26.83	-170.47	-640.38	645.42	1,343.89	1,290.51	53.38	25.177		
5,900.00	5,761.73	5,715.29	5,642.49	28.72	27.30	-171.08	-651.07	658.12	1,352.63	1,298.40	54.23	24.942		
6,000.00	5,861.73	5,813.86	5,739.65	29.10	27.78	-171.68	-661.77	670.82	1,361.52	1,306.43	55.09	24.716		
6,100.00	5,961.73	5,912.43	5,836.81	29.48	28.26	-172.27	-672.47	683.53	1,370.56	1,314.62	55.94	24.499		
6,200.00	6,061.73	6,011.00	5,933.97	29.86	28.74	-172.86	-683.17	696.23	1,379.75	1,322.95	56.80	24.292		
6,300.00	6,161.73	6,109.57	6,031.13	30.25	29.22	-173.44	-693.86	708.93	1,389.08	1,331.42	57.66	24.093		
6,400.00	6,261.73	6,208.14	6,128.29	30.63	29.70	-174.01	-704.56	721.64	1,398.55	1,340.04	58.51	23.902		
6,451.69	6,313.42	6,254.47	6,173.99	30.83	29.92	-174.26	-709.60	727.41	1,403.54	1,344.63	58.91	23.825		
6,500.00	6,361.68	6,291.60	6,210.77	31.01	30.09	-81.57	-713.71	730.19	1,408.26	1,349.06	59.20	23.787		
6,550.00	6,411.34	6,330.22	6,249.13	31.20	30.25	-81.37	-718.08	730.80	1,413.00	1,353.50	59.49	23.751		
6,600.00	6,460.39	6,369.07	6,287.69	31.38	30.40	-81.21	-722.53	729.04	1,417.55	1,357.77	59.78	23.713		
6,650.00	6,508.54	6,408.21	6,326.33	31.58	30.55	-81.09	-727.08	724.88	1,421.90	1,361.83	60.07	23.671		
6,700.00	6,555.48	6,447.66	6,364.95	31.78	30.68	-81.03	-731.70	718.28	1,426.04	1,365.67	60.37	23.622		
6,750.00	6,600.93	6,487.48	6,403.42	31.98	30.82	-81.01	-736.38	709.19	1,429.95	1,369.27	60.69	23.563		
6,800.00	6,644.61	6,527.71	6,441.64	32.20	30.95	-81.03	-741.11	697.56	1,433.63	1,372.60	61.03	23.491		
6,850.00	6,686.25	6,568.40	6,479.46	32.44	31.08	-81.11	-745.87	683.35	1,437.06	1,375.66	61.40	23.406		
6,900.00	6,725.58	6,609.60	6,516.75	32.68	31.21	-81.23	-750.66	666.52	1,440.23	1,378.43	61.80	23.304		
6,950.00	6,762.38	6,651.37	6,553.36	32.96	31.35	-81.40	-755.46	647.00	1,443.15	1,380.90	62.25	23.184		
7,000.00	6,796.41	6,693.77	6,589.14	33.25	31.49	-81.61	-760.24	624.76	1,445.80	1,383.06	62.74	23.044		
7,050.00	6,827.46	6,736.87	6,623.90	33.58	31.63	-81.88	-765.00	599.75	1,448.19	1,384.90	63.29	22.882		
7,100.00	6,855.34	6,780.72	6,657.45	33.93	31.79	-82.19	-769.71	571.93	1,450.31	1,386.40	63.90	22.696		
7,150.00	6,879.88	6,825.41	6,689.60	34.33	31.96	-82.54	-774.34	541.24	1,452.15	1,387.57	64.58	22.486		
7,200.00	6,900.93	6,871.02	6,720.10	34.76	32.15	-82.94	-778.88	507.66	1,453.72	1,388.40	65.33	22.252		
7,250.00	6,918.36	6,917.61	6,748.71	35.23	32.36	-83.39	-783.30	471.17	1,455.03	1,388.87	66.15	21.995		
7,300.00	6,932.05	6,965.29	6,775.15	35.74	32.60	-83.88	-787.56	431.74	1,456.05	1,388.99	67.06	21.714		
7,350.00	6,941.94	7,014.13	6,799.11	36.29	32.89	-84.41	-791.63	389.38	1,456.80	1,388.76	68.04	21.412		
7,400.00	6,947.94	7,064.24	6,820.26	36.87	33.22	-84.99	-795.47	344.13	1,457.27	1,388.18	69.10	21.091		
7,450.00	6,950.04	7,115.71	6,838.22	37.47	33.61	-85.60	-799.03	296.05	1,457.46	1,387.23	70.23	20.753		
7,458.56	6,950.00	7,124.66	6,840.95	37.58	33.68	-85.71	-799.61	287.54	1,457.46	1,387.03	70.43	20.694		
7,500.00	6,949.56	7,169.02	6,852.69	38.11	34.07	-86.19	-802.30	244.85	1,457.45	1,386.01	71.44	20.400		
7,600.00	6,948.48	7,281.83	6,869.01	39.51	35.20	-86.88	-807.66	133.51	1,457.03	1,382.88	74.15	19.651		
7,700.00	6,947.40	7,388.06	6,869.14	41.06	36.46	-86.93	-811.01	27.36	1,455.82	1,378.77	77.05	18.895		
7,800.00	6,946.32	7,488.06	6,867.71	42.74	37.84	-86.91	-814.00	-72.58	1,454.53	1,374.35	80.18	18.141		
7,900.00	6,945.24	7,588.05	6,866.29	44.55	39.39	-86.89	-816.98	-172.52	1,453.24	1,369.66	83.58	17.388		
8,000.00	6,944.16	7,688.04	6,864.86	46.46	41.08	-86.88	-819.96	-272.45	1,451.95	1,364.74	87.21	16.649		
8,100.00	6,943.08	7,788.03	6,863.44	48.47	42.90	-86.86	-822.94	-372.39	1,450.66	1,359.60	91.06	15.931		
8,200.00	6,942.01	7,888.02	6,862.02	50.55	44.83	-86.84	-825.92	-472.33	1,449.37	1,354.28	95.09	15.243		
8,300.00	6,940.93	7,988.01	6,860.59	52.71	46.85	-86.83	-828.90	-572.26	1,448.08	1,348.80	99.28	14.586		
8,400.00	6,939.85	8,088.00	6,859.17	54.93	48.96	-86.81	-831.88	-672.20	1,446.79	1,343.18	103.61	13.964		
8,500.00	6,938.77	8,187.99	6,857.74	57.20	51.14	-86.79	-834.86	-772.13	1,445.50	1,337.43	108.07	13.376		
8,600.00	6,937.69	8,287.98	6,856.32	59.53	53.38	-86.78	-837.84	-872.07	1,444.21	1,331.57	112.64	12.822		
8,700.00	6,936.61	8,387.97	6,854.90	61.89	55.68	-86.76	-840.82	-972.01	1,442.92	1,325.62	117.30	12.301		
8,800.00	6,935.54	8,487.96	6,853.47	64.30	58.03	-86.74	-843.80	-1,071.94	1,441.63	1,319.57	122.05	11.812		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34N-6A-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	6,934.46	8,587.95	6,852.05	66.74	60.42	-86.73	-846.78	-1,171.88	1,440.34	1,313.46	126.88	11.352		
9,000.00	6,933.38	8,687.95	6,850.62	69.21	62.84	-86.71	-849.76	-1,271.82	1,439.05	1,307.28	131.77	10.921		
9,100.00	6,932.30	8,787.94	6,849.20	71.71	65.31	-86.69	-852.74	-1,371.75	1,437.76	1,301.03	136.73	10.516		
9,200.00	6,931.22	8,887.93	6,847.77	74.23	67.80	-86.68	-855.73	-1,471.69	1,436.47	1,294.73	141.73	10.135		
9,300.00	6,930.14	8,987.92	6,846.35	76.78	70.32	-86.66	-858.71	-1,571.62	1,435.18	1,288.39	146.79	9.777		
9,400.00	6,929.06	9,087.91	6,844.93	79.34	72.86	-86.64	-861.69	-1,671.56	1,433.89	1,282.00	151.89	9.440		
9,500.00	6,927.99	9,187.90	6,843.50	81.93	75.42	-86.63	-864.67	-1,771.50	1,432.60	1,275.57	157.03	9.123		
9,600.00	6,926.91	9,287.89	6,842.08	84.53	78.01	-86.61	-867.65	-1,871.43	1,431.31	1,269.11	162.21	8.824		
9,700.00	6,925.83	9,387.88	6,840.65	87.14	80.61	-86.59	-870.63	-1,971.37	1,430.02	1,262.61	167.41	8.542		
9,800.00	6,924.75	9,487.87	6,839.23	89.77	83.23	-86.58	-873.61	-2,071.31	1,428.74	1,256.09	172.65	8.275		
9,900.00	6,923.67	9,587.86	6,837.81	92.41	85.86	-86.56	-876.59	-2,171.24	1,427.45	1,249.54	177.91	8.023		
10,000.00	6,922.59	9,687.85	6,836.38	95.07	88.50	-86.54	-879.57	-2,271.18	1,426.16	1,242.96	183.20	7.785		
10,100.00	6,921.51	9,787.84	6,834.96	97.73	91.16	-86.52	-882.55	-2,371.11	1,424.87	1,236.36	188.51	7.559		
10,200.00	6,920.44	9,887.83	6,833.53	100.40	93.83	-86.51	-885.53	-2,471.05	1,423.58	1,229.75	193.84	7.344		
10,300.00	6,919.36	9,987.83	6,832.11	103.08	96.50	-86.49	-888.51	-2,570.99	1,422.30	1,223.11	199.18	7.141		
10,400.00	6,918.28	10,087.82	6,830.68	105.77	99.19	-86.47	-891.49	-2,670.92	1,421.01	1,216.46	204.55	6.947		
10,500.00	6,917.20	10,187.81	6,829.26	108.47	101.89	-86.46	-894.47	-2,770.86	1,419.72	1,209.79	209.93	6.763		
10,600.00	6,916.12	10,287.80	6,827.84	111.18	104.59	-86.44	-897.45	-2,870.80	1,418.43	1,203.11	215.32	6.587		
10,700.00	6,915.04	10,387.79	6,826.41	113.89	107.30	-86.42	-900.44	-2,970.73	1,417.14	1,196.41	220.73	6.420		
10,800.00	6,913.96	10,487.78	6,824.99	116.61	110.02	-86.40	-903.42	-3,070.67	1,415.86	1,189.70	226.16	6.261		
10,900.00	6,912.89	10,587.77	6,823.56	119.33	112.74	-86.39	-906.40	-3,170.60	1,414.57	1,182.98	231.59	6.108		
11,000.00	6,911.81	10,687.76	6,822.14	122.06	115.47	-86.37	-909.38	-3,270.54	1,413.28	1,176.25	237.03	5.962		
11,100.00	6,910.73	10,787.75	6,820.72	124.79	118.21	-86.35	-912.36	-3,370.48	1,412.00	1,169.51	242.49	5.823		
11,200.00	6,909.65	10,887.74	6,819.29	127.53	120.95	-86.33	-915.34	-3,470.41	1,410.71	1,162.76	247.95	5.689		
11,300.00	6,908.57	10,987.73	6,817.87	130.27	123.69	-86.32	-918.32	-3,570.35	1,409.42	1,156.00	253.42	5.562		
11,400.00	6,907.49	11,087.72	6,816.44	133.02	126.44	-86.30	-921.30	-3,670.28	1,408.14	1,149.23	258.90	5.439		
11,500.00	6,906.41	11,187.72	6,815.02	135.77	129.20	-86.28	-924.28	-3,770.22	1,406.85	1,142.46	264.39	5.321		
11,600.00	6,905.34	11,287.71	6,813.59	138.52	131.95	-86.27	-927.26	-3,870.16	1,405.56	1,135.68	269.89	5.208		
11,700.00	6,904.26	11,387.70	6,812.17	141.28	134.71	-86.25	-930.24	-3,970.09	1,404.28	1,128.89	275.39	5.099		
11,800.00	6,903.18	11,487.69	6,810.75	144.04	137.48	-86.23	-933.22	-4,070.03	1,402.99	1,122.10	280.90	4.995		
11,900.00	6,902.10	11,587.68	6,809.33	146.80	140.24	-86.20	-936.20	-4,170.00	1,401.70	1,115.25	287.50	4.872		
12,000.00	6,901.02	11,687.67	6,807.91	149.57	143.01	-86.17	-939.18	-4,270.00	1,399.45	1,108.45	294.50	4.762		
12,100.00	6,899.94	11,787.66	6,806.49	152.34	145.78	-86.14	-942.16	-4,370.00	1,397.20	1,101.65	301.50	4.656		
12,200.00	6,898.87	11,887.65	6,805.07	155.11	148.55	-86.11	-945.14	-4,470.00	1,394.95	1,094.85	308.50	4.555		
12,300.00	6,897.79	11,987.64	6,803.65	157.89	151.32	-86.08	-948.12	-4,570.00	1,392.70	1,088.05	315.50	4.457		
12,400.00	6,896.71	12,087.63	6,802.23	160.66	154.09	-86.05	-951.10	-4,670.00	1,390.45	1,081.25	322.50	4.362		
12,500.00	6,895.63	12,187.62	6,800.81	163.44	156.86	-86.02	-954.08	-4,770.00	1,388.20	1,074.45	329.50	4.271		
12,600.00	6,894.55	12,287.61	6,799.39	166.22	159.63	-85.99	-957.06	-4,870.00	1,385.95	1,067.65	336.50	4.182		
12,700.00	6,893.47	12,387.60	6,797.97	169.00	162.40	-85.96	-960.04	-4,970.00	1,383.70	1,060.85	343.50	4.097		
12,800.00	6,892.39	12,487.59	6,796.55	171.79	165.17	-85.93	-963.02	-5,070.00	1,381.45	1,054.05	350.50	4.014		
12,900.00	6,891.32	12,587.58	6,795.13	174.57	167.94	-85.90	-966.00	-5,170.00	1,379.20	1,047.25	357.50	3.934		
13,000.00	6,890.24	12,687.57	6,793.71	177.36	170.71	-85.87	-968.98	-5,270.00	1,376.95	1,040.45	364.50	3.856		
13,100.00	6,889.16	12,787.56	6,792.29	180.15	173.48	-85.84	-971.96	-5,370.00	1,374.70	1,033.65	371.50	3.781		
13,200.00	6,888.08	12,887.55	6,790.87	182.94	176.25	-85.81	-974.94	-5,470.00	1,372.45	1,026.85	378.50	3.708		
13,300.00	6,887.00	12,987.54	6,789.45	185.74	179.02	-85.78	-977.92	-5,570.00	1,370.20	1,020.05	385.50	3.638		
13,400.00	6,885.92	13,087.53	6,788.03	188.53	181.79	-85.75	-980.90	-5,670.00	1,367.95	1,013.25	392.50	3.569		
13,500.00	6,884.84	13,187.52	6,786.61	191.32	184.56	-85.72	-983.88	-5,770.00	1,365.70	1,006.45	399.50	3.503		
13,600.00	6,883.77	13,287.51	6,785.19	194.12	187.33	-85.69	-986.86	-5,870.00	1,363.45	1,000.00	406.50	3.438		
13,700.00	6,882.69	13,387.50	6,783.77	196.92	190.10	-85.65	-989.84	-5,970.00	1,361.20	993.60	413.50	3.375		
13,800.00	6,881.61	13,487.49	6,782.35	199.72	192.87	-85.62	-992.82	-6,070.00	1,358.95	987.20	420.50	3.314		
13,900.00	6,880.53	13,587.48	6,780.93	202.52	195.64	-85.59	-995.80	-6,170.00	1,356.70	980.80	427.50	3.255		
14,000.00	6,879.45	13,687.47	6,779.51	205.32	198.41	-85.56	-998.78	-6,270.00	1,354.45	974.40	434.50	3.198		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34N-6A-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,878.37	13,838.84	6,777.29	208.12	203.38	-85.52	-916.24	-6,420.83	1,287.60	877.72	409.88	3.141		
14,200.00	6,877.29	13,938.71	6,775.86	210.92	206.20	-85.49	-915.35	-6,520.68	1,282.46	867.00	415.46	3.087		
14,300.00	6,876.22	14,038.57	6,774.44	213.73	209.02	-85.46	-914.46	-6,620.53	1,277.32	856.28	421.05	3.034		
14,400.00	6,875.14	14,138.44	6,773.02	216.53	211.84	-85.42	-913.57	-6,720.38	1,272.19	845.55	426.63	2.982		
14,500.00	6,874.06	14,238.30	6,771.60	219.34	214.66	-85.39	-912.68	-6,820.23	1,267.05	834.83	432.22	2.931		
14,600.00	6,872.98	14,338.17	6,770.18	222.15	217.48	-85.35	-911.79	-6,920.08	1,261.91	824.10	437.81	2.882		
14,700.00	6,871.90	14,438.03	6,768.76	224.95	220.31	-85.32	-910.90	-7,019.93	1,256.78	813.38	443.40	2.834		
14,800.00	6,870.82	14,537.90	6,767.34	227.76	223.13	-85.28	-910.01	-7,119.78	1,251.64	802.65	448.99	2.788		
14,900.00	6,869.75	14,637.76	6,765.92	230.57	225.95	-85.25	-909.12	-7,219.63	1,246.50	791.92	454.58	2.742		
15,000.00	6,868.67	14,737.63	6,764.50	233.38	228.78	-85.21	-908.23	-7,319.49	1,241.37	781.20	460.17	2.698		
15,100.00	6,867.59	14,837.49	6,763.07	236.19	231.60	-85.18	-907.34	-7,419.34	1,236.24	770.47	465.76	2.654		
15,200.00	6,866.51	14,937.36	6,761.65	239.00	234.43	-85.14	-906.45	-7,519.19	1,231.10	759.75	471.35	2.612		
15,300.00	6,865.43	15,037.22	6,760.23	241.81	237.26	-85.10	-905.56	-7,619.04	1,225.97	749.02	476.95	2.570		
15,400.00	6,864.35	15,137.09	6,758.81	244.63	240.08	-85.07	-904.67	-7,718.89	1,220.84	738.29	482.54	2.530		
15,500.00	6,863.27	15,236.95	6,757.39	247.44	242.91	-85.03	-903.78	-7,818.74	1,215.70	727.57	488.13	2.491		
15,600.00	6,862.20	15,336.82	6,755.97	250.25	245.74	-84.99	-902.89	-7,918.59	1,210.57	716.84	493.73	2.452		
15,618.10	6,862.00	15,335.52	6,755.99	250.76	245.70	-84.99	-902.90	-7,917.29	1,209.80	715.34	494.45	2.447 SF		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34N-6C-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.41	-119.49	-11.69	120.07					
100.00	100.00	100.00	100.00	3.28	3.28	-174.41	-119.49	-11.69	120.07	113.50	6.57	18.276		
200.00	200.00	200.00	200.00	3.34	3.34	-174.41	-119.49	-11.69	120.07	113.39	6.67	17.990	CC, ES	
300.00	299.98	296.78	296.76	3.44	3.44	133.75	-120.86	-10.79	122.58	115.70	6.89	17.799		
400.00	399.84	393.20	393.05	3.61	3.58	133.89	-124.93	-8.11	130.13	122.92	7.21	18.055		
500.00	499.45	488.89	488.40	3.81	3.77	134.09	-131.65	-3.69	142.67	135.05	7.62	18.718		
600.00	598.70	583.51	582.37	4.06	3.99	134.28	-140.90	2.41	160.14	152.03	8.11	19.736		
700.00	697.47	676.73	674.53	4.35	4.25	134.43	-152.55	10.08	182.47	173.80	8.67	21.052		
800.00	795.62	768.25	764.53	4.66	4.54	134.52	-166.41	19.21	209.55	200.28	9.27	22.610		
900.00	893.06	863.07	857.46	5.01	4.87	134.80	-182.15	29.58	240.28	230.37	9.90	24.262		
961.44	952.51	921.08	914.31	5.25	5.08	135.15	-191.78	35.92	260.34	250.02	10.32	25.223		
1,000.00	989.71	957.38	949.88	5.40	5.22	135.57	-197.81	39.89	273.22	262.64	10.59	25.804		
1,100.00	1,086.20	1,051.51	1,042.13	5.81	5.59	136.50	-213.44	50.19	306.69	295.39	11.30	27.141		
1,200.00	1,182.69	1,145.64	1,134.38	6.24	5.97	137.24	-229.08	60.48	340.21	328.17	12.04	28.247		
1,300.00	1,279.18	1,239.77	1,226.63	6.69	6.37	137.86	-244.71	70.78	373.78	360.96	12.82	29.166		
1,400.00	1,375.67	1,333.90	1,318.88	7.15	6.78	138.37	-260.34	81.07	407.37	393.76	13.61	29.932		
1,500.00	1,472.15	1,428.03	1,411.14	7.62	7.19	138.80	-275.97	91.37	440.99	426.57	14.42	30.577		
1,600.00	1,568.64	1,522.16	1,503.39	8.10	7.61	139.18	-291.61	101.67	474.63	459.38	15.25	31.121		
1,700.00	1,665.13	1,616.29	1,595.64	8.59	8.04	139.50	-307.24	111.96	508.29	492.20	16.09	31.584		
1,800.00	1,761.62	1,710.42	1,687.89	9.08	8.48	139.78	-322.87	122.26	541.96	525.01	16.95	31.981		
1,900.00	1,858.11	1,804.55	1,780.14	9.58	8.92	140.03	-338.50	132.55	575.64	557.83	17.81	32.323		
2,000.00	1,954.60	1,898.68	1,872.39	10.08	9.36	140.25	-354.13	142.85	609.33	590.65	18.68	32.619		
2,100.00	2,051.09	2,007.19	1,964.64	10.59	9.88	140.45	-369.77	153.14	643.02	623.40	19.62	32.768		
2,200.00	2,147.57	2,086.94	2,056.89	11.09	10.26	140.63	-385.40	163.44	676.72	656.28	20.44	33.104		
2,300.00	2,244.06	2,181.07	2,149.14	11.61	10.71	140.80	-401.03	173.74	710.43	689.09	21.33	33.303		
2,400.00	2,340.55	2,275.20	2,241.39	12.12	11.16	140.94	-416.66	184.03	744.14	721.91	22.23	33.479		
2,500.00	2,437.04	2,369.33	2,333.64	12.64	11.62	141.08	-432.30	194.33	777.85	754.73	23.13	33.635		
2,600.00	2,533.53	2,463.46	2,425.89	13.15	12.07	141.20	-447.93	204.62	811.57	787.54	24.03	33.775		
2,700.00	2,630.02	2,557.59	2,518.14	13.67	12.53	141.32	-463.56	214.92	845.29	820.36	24.93	33.900		
2,800.00	2,726.50	2,651.72	2,610.39	14.19	12.99	141.42	-479.19	225.22	879.02	853.17	25.84	34.013		
2,900.00	2,822.99	2,745.85	2,702.64	14.72	13.45	141.52	-494.83	235.51	912.74	885.99	26.76	34.114		
3,000.00	2,919.48	2,839.98	2,794.89	15.24	13.92	141.61	-510.46	245.81	946.47	918.80	27.67	34.206		
3,100.00	3,015.97	2,934.11	2,887.14	15.76	14.38	141.69	-526.09	256.10	980.20	951.62	28.59	34.290		
3,200.00	3,112.46	3,028.24	2,979.39	16.29	14.84	141.77	-541.72	266.40	1,013.93	984.43	29.50	34.366		
3,300.00	3,208.95	3,122.37	3,071.64	16.81	15.31	141.84	-557.35	276.69	1,047.67	1,017.24	30.42	34.435		
3,400.00	3,305.44	3,216.50	3,163.89	17.34	15.78	141.91	-572.99	286.99	1,081.40	1,050.06	31.35	34.499		
3,500.00	3,401.92	3,310.63	3,256.14	17.87	16.24	141.98	-588.62	297.29	1,115.14	1,082.87	32.27	34.557		
3,600.00	3,498.41	3,404.76	3,348.39	18.40	16.71	142.04	-604.25	307.58	1,148.88	1,115.69	33.19	34.611		
3,700.00	3,594.90	3,501.11	3,440.64	18.93	17.19	142.10	-619.88	317.88	1,182.62	1,148.49	34.13	34.650		
3,800.00	3,691.39	3,606.98	3,532.89	19.46	17.71	142.15	-635.52	328.17	1,216.36	1,181.24	35.11	34.641		
3,900.00	3,787.88	3,687.15	3,625.14	19.99	18.11	142.20	-651.15	338.47	1,250.10	1,214.12	35.98	34.749		
4,000.00	3,884.37	3,781.28	3,717.39	20.52	18.58	142.25	-666.78	348.77	1,283.84	1,246.94	36.90	34.788		
4,100.00	3,980.85	3,875.41	3,809.64	21.05	19.05	142.30	-682.41	359.06	1,317.58	1,279.75	37.83	34.825		
4,200.00	4,077.34	3,969.54	3,901.89	21.58	19.52	142.34	-698.04	369.36	1,351.33	1,312.56	38.77	34.859		
4,300.00	4,173.83	4,063.67	3,994.14	22.11	19.99	142.38	-713.68	379.65	1,385.07	1,345.37	39.70	34.891		
4,390.25	4,260.91	4,148.63	4,077.40	22.59	20.42	142.42	-727.79	388.94	1,415.53	1,374.99	40.54	34.918		
4,400.00	4,270.32	4,157.81	4,086.40	22.64	20.46	142.46	-729.31	389.95	1,418.80	1,378.17	40.63	34.920		
4,500.00	4,367.33	4,252.48	4,179.18	23.16	20.94	142.86	-745.03	400.30	1,450.98	1,409.43	41.56	34.916		
4,600.00	4,465.13	4,347.98	4,272.77	23.65	21.42	143.13	-760.89	410.75	1,480.52	1,438.04	42.47	34.857		
4,700.00	4,563.60	4,444.20	4,367.07	24.12	21.90	143.29	-776.87	421.27	1,507.38	1,464.00	43.38	34.746		
4,800.00	4,662.61	4,541.00	4,461.94	24.56	22.38	143.33	-792.95	431.86	1,531.57	1,487.28	44.28	34.587		
4,900.00	4,762.05	4,638.28	4,557.28	24.98	22.87	143.27	-809.10	442.50	1,553.06	1,507.89	45.17	34.384		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34N-6C-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,735.92	4,652.97	25.38	23.36	143.11	-825.32	453.18	1,571.87	1,525.83	46.04	34.140		
5,100.00	4,961.73	4,833.80	4,748.89	25.76	23.85	142.85	-841.57	463.89	1,588.02	1,541.12	46.90	33.857		
5,151.69	5,013.42	4,884.45	4,798.53	25.95	24.11	-165.43	-849.98	469.43	1,595.33	1,547.99	47.34	33.698		
5,200.00	5,061.73	4,931.79	4,844.93	26.13	24.34	-165.69	-857.85	474.61	1,601.86	1,554.11	47.75	33.547		
5,300.00	5,161.73	5,029.80	4,940.97	26.49	24.84	-166.20	-874.12	485.33	1,615.46	1,566.86	48.60	33.242		
5,400.00	5,261.73	5,127.80	5,037.02	26.86	25.33	-166.71	-890.40	496.05	1,629.19	1,579.74	49.44	32.950		
5,500.00	5,361.73	5,225.80	5,133.06	27.23	25.82	-167.21	-906.67	506.77	1,643.04	1,592.75	50.29	32.669		
5,600.00	5,461.73	5,323.81	5,229.11	27.60	26.31	-167.70	-922.95	517.48	1,657.02	1,605.88	51.14	32.399		
5,700.00	5,561.73	5,421.81	5,325.15	27.97	26.81	-168.18	-939.22	528.20	1,671.12	1,619.12	51.99	32.140		
5,800.00	5,661.73	5,519.81	5,421.20	28.35	27.30	-168.66	-955.50	538.92	1,685.33	1,632.49	52.85	31.891		
5,900.00	5,761.73	5,617.82	5,517.25	28.72	27.79	-169.12	-971.77	549.64	1,699.66	1,645.96	53.70	31.651		
6,000.00	5,861.73	5,715.82	5,613.29	29.10	28.29	-169.58	-988.05	560.36	1,714.10	1,659.55	54.55	31.420		
6,100.00	5,961.73	5,813.82	5,709.34	29.48	28.78	-170.04	-1,004.33	571.08	1,728.65	1,673.24	55.41	31.198		
6,200.00	6,061.73	5,911.82	5,805.38	29.86	29.28	-170.48	-1,020.60	581.80	1,743.30	1,687.04	56.26	30.984		
6,300.00	6,161.73	6,009.83	5,901.43	30.25	29.77	-170.92	-1,036.88	592.52	1,758.06	1,700.93	57.12	30.778		
6,400.00	6,261.73	6,107.83	5,997.47	30.63	30.26	-171.35	-1,053.15	603.24	1,772.91	1,714.93	57.98	30.579		
6,451.69	6,313.42	6,158.49	6,047.12	30.83	30.52	-171.57	-1,061.56	608.78	1,780.63	1,722.21	58.42	30.479		
6,500.00	6,361.68	6,205.60	6,093.29	31.01	30.76	-78.75	-1,069.39	613.93	1,787.52	1,728.70	58.83	30.386		
6,550.00	6,411.34	6,253.68	6,140.41	31.20	31.00	-78.55	-1,077.37	619.19	1,793.97	1,734.74	59.23	30.286		
6,600.00	6,460.39	6,300.77	6,186.56	31.38	31.24	-78.52	-1,085.19	624.34	1,799.76	1,740.12	59.64	30.178		
6,650.00	6,508.54	6,346.58	6,231.46	31.58	31.47	-78.63	-1,092.80	629.35	1,804.94	1,744.90	60.04	30.063		
6,700.00	6,555.48	6,409.17	6,274.82	31.78	31.78	-78.86	-1,100.15	634.19	1,809.60	1,749.07	60.52	29.899		
6,750.00	6,600.93	6,433.25	6,316.39	31.98	31.90	-79.19	-1,107.19	638.83	1,813.83	1,753.00	60.83	29.818		
6,800.00	6,644.61	6,473.57	6,355.91	32.20	32.11	-79.59	-1,113.89	643.24	1,817.76	1,756.53	61.23	29.689		
6,850.00	6,686.25	6,511.55	6,393.13	32.44	32.30	-80.03	-1,120.20	647.40	1,821.50	1,759.87	61.63	29.556		
6,900.00	6,725.58	6,542.90	6,423.89	32.68	32.46	-80.39	-1,125.42	650.45	1,825.21	1,763.22	61.99	29.442		
6,950.00	6,762.38	6,572.95	6,453.47	32.96	32.60	-80.72	-1,130.48	651.99	1,829.06	1,766.68	62.38	29.321		
7,000.00	6,796.41	6,603.58	6,483.65	33.25	32.74	-81.08	-1,135.69	652.10	1,833.06	1,770.25	62.81	29.183		
7,050.00	6,827.46	6,634.91	6,514.48	33.58	32.87	-81.44	-1,141.05	650.69	1,837.25	1,773.96	63.29	29.027		
7,100.00	6,855.34	6,667.09	6,546.03	33.93	33.00	-81.83	-1,146.59	647.64	1,841.66	1,777.83	63.83	28.852		
7,150.00	6,879.88	6,700.32	6,578.40	34.33	33.12	-82.23	-1,152.32	642.80	1,846.30	1,781.87	64.43	28.656		
7,200.00	6,900.93	6,734.87	6,611.73	34.76	33.24	-82.66	-1,158.27	635.96	1,851.21	1,786.12	65.09	28.442		
7,250.00	6,918.36	6,771.08	6,646.22	35.23	33.36	-83.11	-1,164.48	626.83	1,856.40	1,790.60	65.80	28.211		
7,300.00	6,932.05	6,809.46	6,682.13	35.74	33.49	-83.60	-1,171.02	614.99	1,861.88	1,795.31	66.57	27.968		
7,350.00	6,941.94	6,850.70	6,719.85	36.29	33.61	-84.14	-1,177.97	599.85	1,867.67	1,800.28	67.39	27.715		
7,400.00	6,947.94	6,895.83	6,759.90	36.87	33.74	-84.76	-1,185.43	580.47	1,873.74	1,805.50	68.24	27.458		
7,450.00	6,950.04	6,946.40	6,803.04	37.47	33.88	-85.50	-1,193.60	555.40	1,880.10	1,810.98	69.12	27.201		
7,458.56	6,950.00	6,955.76	6,810.80	37.58	33.90	-85.64	-1,195.08	550.38	1,881.21	1,811.94	69.27	27.157		
7,500.00	6,949.56	7,007.37	6,852.21	38.11	34.04	-86.93	-1,203.08	520.66	1,886.75	1,816.71	70.04	26.938		
7,600.00	6,948.48	7,197.68	6,981.17	39.51	34.54	-90.92	-1,229.25	384.16	1,899.90	1,827.66	72.24	26.300		
7,700.00	6,947.40	7,700.00	7,086.88	41.06	37.71	-94.18	-1,255.07	119.46	1,907.11	1,829.22	77.89	24.484		
7,800.00	6,946.32	7,679.19	7,093.36	42.74	37.81	-94.44	-1,261.69	-72.68	1,905.62	1,825.91	79.70	23.910		
7,900.00	6,945.24	7,779.16	7,091.25	44.55	39.12	-94.41	-1,264.18	-172.61	1,903.74	1,820.83	82.91	22.961		
8,000.00	6,944.16	7,879.14	7,089.14	46.46	40.61	-94.38	-1,266.68	-272.53	1,901.87	1,815.50	86.38	22.018		
8,100.00	6,943.08	7,979.12	7,087.03	48.47	42.26	-94.36	-1,269.17	-372.46	1,900.00	1,809.93	90.07	21.094		
8,200.00	6,942.01	8,079.10	7,084.93	50.55	44.03	-94.33	-1,271.67	-472.38	1,898.13	1,804.17	93.96	20.201		
8,300.00	6,940.93	8,179.08	7,082.82	52.71	45.93	-94.30	-1,274.16	-572.31	1,896.26	1,798.23	98.03	19.343		
8,400.00	6,939.85	8,279.06	7,080.71	54.93	47.91	-94.28	-1,276.66	-672.24	1,894.40	1,792.14	102.26	18.526		
8,500.00	6,938.77	8,379.04	7,078.60	57.20	49.99	-94.25	-1,279.15	-772.16	1,892.53	1,785.91	106.62	17.751		
8,600.00	6,937.69	8,479.01	7,076.49	59.53	52.14	-94.22	-1,281.65	-872.09	1,890.66	1,779.56	111.10	17.018		
8,700.00	6,936.61	8,578.99	7,074.39	61.89	54.35	-94.20	-1,284.14	-972.01	1,888.79	1,773.11	115.69	16.327		
8,800.00	6,935.54	8,678.97	7,072.28	64.30	56.62	-94.17	-1,286.64	-1,071.94	1,886.92	1,766.56	120.37	15.676		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34N-6C-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	6,934.46	8,778.95	7,070.17	66.74	58.95	-94.14	-1,289.13	-1,171.86	1,885.06	1,759.92	125.13	15.064		
9,000.00	6,933.38	8,878.93	7,068.06	69.21	61.31	-94.11	-1,291.62	-1,271.79	1,883.19	1,753.22	129.97	14.489		
9,100.00	6,932.30	8,978.91	7,065.95	71.71	63.72	-94.09	-1,294.12	-1,371.71	1,881.32	1,746.45	134.88	13.948		
9,200.00	6,931.22	9,078.89	7,063.85	74.23	66.16	-94.06	-1,296.61	-1,471.64	1,879.46	1,739.62	139.84	13.440		
9,300.00	6,930.14	9,178.86	7,061.74	76.78	68.63	-94.03	-1,299.11	-1,571.56	1,877.59	1,732.73	144.86	12.961		
9,400.00	6,929.06	9,278.84	7,059.63	79.34	71.13	-94.00	-1,301.60	-1,671.49	1,875.73	1,725.80	149.93	12.511		
9,500.00	6,927.99	9,378.82	7,057.52	81.93	73.66	-93.98	-1,304.10	-1,771.41	1,873.87	1,718.83	155.04	12.087		
9,600.00	6,926.91	9,478.80	7,055.41	84.53	76.20	-93.95	-1,306.59	-1,871.34	1,872.00	1,711.82	160.18	11.687		
9,700.00	6,925.83	9,578.78	7,053.31	87.14	78.77	-93.92	-1,309.09	-1,971.26	1,870.14	1,704.77	165.37	11.309		
9,800.00	6,924.75	9,678.76	7,051.20	89.77	81.36	-93.89	-1,311.58	-2,071.19	1,868.28	1,697.69	170.58	10.952		
9,900.00	6,923.67	9,778.74	7,049.09	92.41	83.96	-93.87	-1,314.08	-2,171.11	1,866.41	1,690.59	175.83	10.615		
10,000.00	6,922.59	9,878.71	7,046.98	95.07	86.58	-93.84	-1,316.57	-2,271.04	1,864.55	1,683.45	181.10	10.296		
10,100.00	6,921.51	9,978.69	7,044.88	97.73	89.21	-93.81	-1,319.07	-2,370.96	1,862.69	1,676.30	186.39	9.993		
10,200.00	6,920.44	10,078.67	7,042.77	100.40	91.86	-93.78	-1,321.56	-2,470.89	1,860.83	1,669.12	191.71	9.707		
10,300.00	6,919.36	10,178.65	7,040.66	103.08	94.52	-93.75	-1,324.05	-2,570.81	1,858.97	1,661.92	197.05	9.434		
10,400.00	6,918.28	10,278.63	7,038.55	105.77	97.19	-93.73	-1,326.55	-2,670.74	1,857.11	1,654.70	202.40	9.175		
10,500.00	6,917.20	10,378.61	7,036.44	108.47	99.86	-93.70	-1,329.04	-2,770.66	1,855.25	1,647.47	207.78	8.929		
10,600.00	6,916.12	10,478.59	7,034.34	111.18	102.55	-93.67	-1,331.54	-2,870.59	1,853.39	1,640.22	213.17	8.694		
10,700.00	6,915.04	10,578.56	7,032.23	113.89	105.24	-93.64	-1,334.03	-2,970.51	1,851.53	1,632.95	218.58	8.471		
10,800.00	6,913.96	10,678.54	7,030.12	116.61	107.95	-93.61	-1,336.53	-3,070.44	1,849.67	1,625.67	224.00	8.258		
10,900.00	6,912.89	10,778.52	7,028.01	119.33	110.66	-93.58	-1,339.02	-3,170.36	1,847.81	1,618.38	229.43	8.054		
11,000.00	6,911.81	10,878.50	7,025.90	122.06	113.37	-93.56	-1,341.52	-3,270.29	1,845.95	1,611.08	234.87	7.859		
11,100.00	6,910.73	10,978.48	7,023.80	124.79	116.10	-93.53	-1,344.01	-3,370.22	1,844.10	1,603.77	240.33	7.673		
11,200.00	6,909.65	11,078.46	7,021.69	127.53	118.82	-93.50	-1,346.51	-3,470.14	1,842.24	1,596.44	245.80	7.495		
11,300.00	6,908.57	11,178.44	7,019.58	130.27	121.56	-93.47	-1,349.00	-3,570.07	1,840.38	1,589.11	251.27	7.324		
11,400.00	6,907.49	11,278.41	7,017.47	133.02	124.30	-93.44	-1,351.50	-3,669.99	1,838.53	1,581.77	256.76	7.161		
11,500.00	6,906.41	11,378.39	7,015.36	135.77	127.04	-93.41	-1,353.99	-3,769.92	1,836.67	1,574.42	262.25	7.003		
11,600.00	6,905.34	11,478.37	7,013.26	138.52	129.79	-93.38	-1,356.48	-3,869.84	1,834.82	1,567.06	267.76	6.853		
11,700.00	6,904.26	11,578.35	7,011.15	141.28	132.54	-93.36	-1,358.98	-3,969.77	1,832.96	1,559.70	273.27	6.708		
11,800.00	6,903.18	11,678.33	7,009.04	144.04	135.30	-93.33	-1,361.47	-4,069.69	1,831.11	1,552.33	278.78	6.568		
11,900.00	6,902.10	11,778.31	7,006.93	146.80	138.06	-93.30	-1,363.97	-4,169.62	1,829.26	1,544.95	284.31	6.434		
12,000.00	6,901.02	11,878.29	7,004.82	149.57	140.82	-93.27	-1,366.46	-4,269.54	1,827.40	1,537.57	289.84	6.305		
12,100.00	6,899.94	11,978.26	7,002.72	152.34	143.58	-93.24	-1,368.96	-4,369.47	1,825.55	1,530.18	295.37	6.180		
12,200.00	6,898.87	12,078.24	7,000.61	155.11	146.35	-93.21	-1,371.45	-4,469.39	1,823.70	1,522.78	300.92	6.060		
12,300.00	6,897.79	12,178.22	6,998.50	157.89	149.13	-93.18	-1,373.95	-4,569.32	1,821.85	1,515.38	306.47	5.945		
12,400.00	6,896.71	12,278.20	6,996.39	160.66	151.90	-93.15	-1,376.44	-4,669.24	1,820.00	1,507.98	312.02	5.833		
12,500.00	6,895.63	12,378.18	6,994.28	163.44	154.68	-93.12	-1,378.94	-4,769.17	1,818.15	1,500.57	317.58	5.725		
12,600.00	6,894.55	12,478.16	6,992.18	166.22	157.46	-93.09	-1,381.43	-4,869.09	1,816.30	1,493.16	323.14	5.621		
12,700.00	6,893.47	12,578.14	6,990.07	169.00	160.24	-93.06	-1,383.92	-4,969.02	1,814.45	1,485.74	328.71	5.520		
12,800.00	6,892.39	12,678.11	6,987.96	171.79	163.02	-93.03	-1,386.42	-5,068.94	1,812.60	1,478.32	334.28	5.422		
12,900.00	6,891.32	12,778.09	6,985.85	174.57	165.81	-93.00	-1,388.91	-5,168.87	1,810.75	1,470.90	339.85	5.328		
13,000.00	6,890.24	12,878.07	6,983.74	177.36	168.60	-92.98	-1,391.41	-5,268.79	1,808.90	1,463.47	345.43	5.237		
13,100.00	6,889.16	12,978.05	6,981.64	180.15	171.39	-92.95	-1,393.90	-5,368.72	1,807.05	1,456.04	351.01	5.148		
13,200.00	6,888.08	13,078.03	6,979.53	182.94	174.18	-92.92	-1,396.40	-5,468.64	1,805.21	1,448.61	356.60	5.062		
13,300.00	6,887.00	13,178.01	6,977.42	185.74	176.97	-92.89	-1,398.89	-5,568.57	1,803.36	1,441.17	362.19	4.979		
13,400.00	6,885.92	13,277.99	6,975.31	188.53	179.77	-92.86	-1,401.39	-5,668.49	1,801.51	1,433.73	367.78	4.898		
13,500.00	6,884.84	13,377.96	6,973.20	191.32	182.57	-92.83	-1,403.88	-5,768.42	1,799.67	1,426.29	373.38	4.820		
13,600.00	6,883.77	13,477.94	6,971.10	194.12	185.36	-92.80	-1,406.38	-5,868.35	1,797.82	1,418.84	378.98	4.744		
13,700.00	6,882.69	13,577.92	6,968.99	196.92	188.16	-92.77	-1,408.87	-5,968.27	1,795.98	1,411.40	384.58	4.670		
13,800.00	6,881.61	13,677.90	6,966.88	199.72	190.96	-92.74	-1,411.37	-6,068.20	1,794.13	1,403.95	390.18	4.598		
13,900.00	6,880.53	13,777.88	6,964.77	202.52	193.77	-92.71	-1,413.86	-6,168.12	1,792.29	1,396.50	395.79	4.528		
14,000.00	6,879.45	13,877.86	6,962.67	205.32	196.57	-92.68	-1,416.35	-6,268.05	1,790.45	1,389.05	401.40	4.461		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 34N-6C-M - OH - Plan #1													Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,878.37	13,977.83	6,960.56	208.12	199.38	-92.65	-1,418.85	-6,367.97	1,788.60	1,381.59	407.01	4.395		
14,200.00	6,877.29	14,077.81	6,958.45	210.92	202.18	-92.62	-1,421.34	-6,467.90	1,786.76	1,374.14	412.62	4.330		
14,300.00	6,876.22	14,177.79	6,956.34	213.73	204.99	-92.58	-1,423.84	-6,567.82	1,784.92	1,366.68	418.24	4.268		
14,400.00	6,875.14	14,277.77	6,954.23	216.53	207.80	-92.55	-1,426.33	-6,667.75	1,783.08	1,359.22	423.86	4.207		
14,500.00	6,874.06	14,377.75	6,952.13	219.34	210.60	-92.52	-1,428.83	-6,767.67	1,781.24	1,351.76	429.48	4.147		
14,600.00	6,872.98	14,477.73	6,950.02	222.15	213.41	-92.49	-1,431.32	-6,867.60	1,779.40	1,344.30	435.10	4.090		
14,700.00	6,871.90	14,577.71	6,947.91	224.95	216.23	-92.46	-1,433.82	-6,967.52	1,777.56	1,336.83	440.72	4.033		
14,800.00	6,870.82	14,677.68	6,945.80	227.76	219.04	-92.43	-1,436.31	-7,067.45	1,775.72	1,329.37	446.35	3.978		
14,900.00	6,869.75	14,777.66	6,943.69	230.57	221.85	-92.40	-1,438.81	-7,167.37	1,773.88	1,321.90	451.97	3.925		
15,000.00	6,868.67	14,877.64	6,941.59	233.38	224.66	-92.37	-1,441.30	-7,267.30	1,772.04	1,314.44	457.60	3.872		
15,100.00	6,867.59	14,977.62	6,939.48	236.19	227.48	-92.34	-1,443.80	-7,367.22	1,770.20	1,306.97	463.23	3.821		
15,200.00	6,866.51	15,077.60	6,937.37	239.00	230.29	-92.31	-1,446.29	-7,467.15	1,768.36	1,299.50	468.86	3.772		
15,300.00	6,865.43	15,177.58	6,935.26	241.81	233.11	-92.28	-1,448.78	-7,567.07	1,766.53	1,292.03	474.50	3.723		
15,400.00	6,864.35	15,277.56	6,933.15	244.63	235.92	-92.25	-1,451.28	-7,667.00	1,764.69	1,284.56	480.13	3.675		
15,500.00	6,863.27	15,377.53	6,931.05	247.44	238.74	-92.22	-1,453.77	-7,766.92	1,762.86	1,277.09	485.77	3.629		
15,600.00	6,862.20	15,477.51	6,928.94	250.25	241.56	-92.18	-1,456.27	-7,866.85	1,761.02	1,269.61	491.41	3.584		
15,618.10	6,862.00	15,495.60	6,928.56	250.76	242.07	-92.18	-1,456.72	-7,884.93	1,760.69	1,268.26	492.43	3.576 SF		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - FRAKER #1 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	10.00	10.00	3.28	3.28	-100.73	-837.85	-4,421.84	4,500.52						
100.00	100.00	110.00	110.00	3.28	3.89	-100.73	-837.85	-4,421.84	4,500.52	4,493.34	7.18	627.124			
200.00	200.00	210.00	210.00	3.34	6.48	-100.73	-837.85	-4,421.84	4,500.52	4,490.71	9.81	458.559			
300.00	299.98	309.98	309.98	3.44	9.65	-152.62	-837.85	-4,421.84	4,502.07	4,488.98	13.09	343.809			
400.00	399.84	409.84	409.84	3.61	12.98	-152.61	-837.85	-4,421.84	4,506.72	4,490.13	16.59	271.707			
500.00	499.45	509.45	509.45	3.81	16.37	-152.58	-837.85	-4,421.84	4,514.46	4,494.28	20.18	223.701			
600.00	598.70	608.70	608.70	4.06	19.78	-152.56	-837.85	-4,421.84	4,525.30	4,501.46	23.83	189.870			
700.00	697.47	707.47	707.47	4.35	23.19	-152.52	-837.85	-4,421.84	4,539.21	4,511.69	27.52	164.930			
800.00	795.62	805.62	805.62	4.66	26.58	-152.47	-837.85	-4,421.84	4,556.20	4,524.97	31.23	145.891			
900.00	893.06	903.06	903.06	5.01	29.96	-152.41	-837.85	-4,421.84	4,576.25	4,541.31	34.95	130.949			
961.44	952.51	962.51	962.51	5.25	32.02	-152.37	-837.85	-4,421.84	4,590.08	4,552.85	37.23	123.283			
1,000.00	989.71	1,000.29	999.71	5.40	33.34	-152.42	-837.85	-4,421.84	4,599.13	4,560.44	38.69	118.885			
1,100.00	1,086.20	1,103.80	1,096.20	5.81	36.93	-152.57	-837.85	-4,421.84	4,622.60	4,579.95	42.65	108.373			
1,200.00	1,182.69	1,207.31	1,192.69	6.24	40.53	-152.72	-837.85	-4,421.84	4,646.10	4,599.46	46.64	99.611			
1,300.00	1,279.18	1,289.18	1,289.18	6.69	43.38	-152.87	-837.85	-4,421.84	4,669.63	4,619.74	49.89	93.595			
1,400.00	1,375.67	1,385.67	1,385.67	7.15	46.74	-153.01	-837.85	-4,421.84	4,693.20	4,639.53	53.66	87.457			
1,500.00	1,472.15	1,482.15	1,482.15	7.62	50.10	-153.16	-837.85	-4,421.84	4,716.79	4,659.34	57.44	82.111			
1,600.00	1,568.64	1,578.64	1,578.64	8.10	53.47	-153.30	-837.85	-4,421.84	4,740.40	4,679.17	61.23	77.415			
1,700.00	1,665.13	1,675.13	1,675.13	8.59	56.83	-153.44	-837.85	-4,421.84	4,764.05	4,699.02	65.03	73.259			
1,800.00	1,761.62	1,771.62	1,771.62	9.08	60.19	-153.58	-837.85	-4,421.84	4,787.72	4,718.89	68.83	69.556			
1,900.00	1,858.11	1,868.11	1,868.11	9.58	63.55	-153.72	-837.85	-4,421.84	4,811.42	4,738.78	72.64	66.236			
2,000.00	1,954.60	1,964.60	1,964.60	10.08	66.92	-153.86	-837.85	-4,421.84	4,835.15	4,758.69	76.45	63.244			
2,100.00	2,051.09	2,061.09	2,061.09	10.59	70.28	-153.99	-837.85	-4,421.84	4,858.90	4,778.63	80.27	60.533			
2,200.00	2,147.57	2,157.57	2,157.57	11.09	73.65	-154.13	-837.85	-4,421.84	4,882.68	4,798.59	84.09	58.066			
2,300.00	2,244.06	2,254.06	2,254.06	11.61	77.01	-154.26	-837.85	-4,421.84	4,906.48	4,818.57	87.91	55.813			
2,400.00	2,340.55	2,350.55	2,350.55	12.12	80.38	-154.39	-837.85	-4,421.84	4,930.31	4,838.58	91.73	53.746			
2,500.00	2,437.04	2,447.04	2,447.04	12.64	83.75	-154.52	-837.85	-4,421.84	4,954.16	4,858.60	95.56	51.843			
2,600.00	2,533.53	2,543.53	2,543.53	13.15	87.11	-154.65	-837.85	-4,421.84	4,978.04	4,878.65	99.39	50.087			
2,700.00	2,630.02	2,640.02	2,640.02	13.67	90.48	-154.78	-837.85	-4,421.84	5,001.94	4,898.72	103.22	48.460			
2,800.00	2,726.50	2,736.50	2,736.50	14.19	93.84	-154.90	-837.85	-4,421.84	5,025.87	4,918.82	107.05	46.949			
2,900.00	2,822.99	2,832.99	2,832.99	14.72	97.21	-155.03	-837.85	-4,421.84	5,049.82	4,938.93	110.88	45.542			
3,000.00	2,919.48	2,929.48	2,929.48	15.24	100.58	-155.15	-837.85	-4,421.84	5,073.79	4,959.07	114.72	44.229			
3,100.00	3,015.97	3,025.97	3,025.97	15.76	103.94	-155.28	-837.85	-4,421.84	5,097.78	4,979.23	118.55	43.000			
3,200.00	3,112.46	3,122.46	3,122.46	16.29	107.31	-155.40	-837.85	-4,421.84	5,121.80	4,999.41	122.39	41.849			
3,300.00	3,208.95	3,218.95	3,218.95	16.81	110.68	-155.52	-837.85	-4,421.84	5,145.84	5,019.61	126.22	40.767			
3,400.00	3,305.44	3,315.44	3,315.44	17.34	114.04	-155.64	-837.85	-4,421.84	5,169.90	5,039.83	130.06	39.749			
3,500.00	3,401.92	3,411.92	3,411.92	17.87	117.41	-155.76	-837.85	-4,421.84	5,193.98	5,060.08	133.90	38.790			
3,600.00	3,498.41	3,508.41	3,508.41	18.40	120.78	-155.88	-837.85	-4,421.84	5,218.08	5,080.34	137.74	37.884			
3,700.00	3,594.90	3,604.90	3,604.90	18.93	124.15	-155.99	-837.85	-4,421.84	5,242.20	5,100.63	141.58	37.027			
3,800.00	3,691.39	3,701.39	3,701.39	19.46	127.51	-156.11	-837.85	-4,421.84	5,266.35	5,120.93	145.42	36.215			
3,900.00	3,787.88	3,802.12	3,797.88	19.99	131.03	-156.22	-837.85	-4,421.84	5,290.51	5,141.11	149.41	35.410			
4,000.00	3,884.37	3,905.63	3,894.37	20.52	134.64	-156.34	-837.85	-4,421.84	5,314.70	5,161.20	153.49	34.625			
4,100.00	3,980.85	4,009.15	3,990.85	21.05	138.25	-156.45	-837.85	-4,421.84	5,338.90	5,181.32	157.58	33.881			
4,200.00	4,077.34	4,087.34	4,087.34	21.58	140.98	-156.56	-837.85	-4,421.84	5,363.12	5,202.34	160.78	33.356			
4,300.00	4,173.83	4,183.83	4,183.83	22.11	144.35	-156.67	-837.85	-4,421.84	5,387.37	5,222.74	164.62	32.725			
4,390.25	4,260.91	4,270.91	4,270.91	22.59	147.39	-156.77	-837.85	-4,421.84	5,409.26	5,241.17	168.09	32.180			
4,400.00	4,270.32	4,280.32	4,280.32	22.64	147.72	-156.80	-837.85	-4,421.84	5,411.61	5,243.15	168.47	32.123			
4,500.00	4,367.33	4,377.33	4,377.33	23.16	151.10	-157.08	-837.85	-4,421.84	5,434.02	5,261.70	172.32	31.534			
4,600.00	4,465.13	4,475.13	4,475.13	23.65	154.52	-157.32	-837.85	-4,421.84	5,453.31	5,277.12	176.19	30.951			
4,700.00	4,563.60	4,573.60	4,573.60	24.12	157.95	-157.51	-837.85	-4,421.84	5,469.43	5,289.36	180.07	30.373			
4,800.00	4,662.61	4,672.61	4,672.61	24.56	161.41	-157.67	-837.85	-4,421.84	5,482.37	5,298.40	183.96	29.801			
4,900.00	4,762.05	4,772.05	4,772.05	24.98	164.88	-157.78	-837.85	-4,421.84	5,492.10	5,304.25	187.86	29.235			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - FRAKER #1 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2° Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,871.80	4,871.80	25.38	168.36	-157.86	-837.85	-4,421.84	5,498.62	5,306.87	191.75	28.676			
5,100.00	4,961.73	4,971.73	4,971.73	25.76	171.85	-157.90	-837.85	-4,421.84	5,501.91	5,306.27	195.63	28.123			
5,151.69	5,013.42	5,023.42	5,023.42	25.95	173.65	-106.01	-837.85	-4,421.84	5,502.34	5,304.70	197.64	27.841			
5,200.00	5,061.73	5,071.73	5,071.73	26.13	175.34	-106.01	-837.85	-4,421.84	5,502.34	5,302.83	199.51	27.580			
5,300.00	5,161.73	5,171.73	5,171.73	26.49	178.83	-106.01	-837.85	-4,421.84	5,502.34	5,298.96	203.38	27.055			
5,400.00	5,261.73	5,271.73	5,271.73	26.86	182.32	-106.01	-837.85	-4,421.84	5,502.34	5,295.09	207.25	26.549			
5,500.00	5,361.73	5,371.73	5,371.73	27.23	185.81	-106.01	-837.85	-4,421.84	5,502.34	5,291.22	211.12	26.062			
5,600.00	5,461.73	5,471.73	5,471.73	27.60	189.30	-106.01	-837.85	-4,421.84	5,502.34	5,287.34	215.00	25.593			
5,700.00	5,561.73	5,571.73	5,571.73	27.97	192.79	-106.01	-837.85	-4,421.84	5,502.34	5,283.46	218.88	25.139			
5,800.00	5,661.73	5,671.73	5,671.73	28.35	196.28	-106.01	-837.85	-4,421.84	5,502.34	5,279.59	222.75	24.701			
5,900.00	5,761.73	5,771.73	5,771.73	28.72	199.77	-106.01	-837.85	-4,421.84	5,502.34	5,275.70	226.63	24.278			
6,000.00	5,861.73	5,871.73	5,871.73	29.10	203.26	-106.01	-837.85	-4,421.84	5,502.34	5,271.82	230.52	23.870			
6,100.00	5,961.73	5,971.73	5,971.73	29.48	206.75	-106.01	-837.85	-4,421.84	5,502.34	5,267.94	234.40	23.474			
6,200.00	6,061.73	6,071.73	6,071.73	29.86	210.24	-106.01	-837.85	-4,421.84	5,502.34	5,264.05	238.29	23.091			
6,300.00	6,161.73	6,171.73	6,171.73	30.25	213.74	-106.01	-837.85	-4,421.84	5,502.34	5,260.17	242.17	22.721			
6,400.00	6,261.73	6,271.73	6,271.73	30.63	217.23	-106.01	-837.85	-4,421.84	5,502.34	5,256.28	246.06	22.362			
6,451.69	6,313.42	6,323.42	6,323.42	30.83	219.03	-106.01	-837.85	-4,421.84	5,502.34	5,254.27	248.07	22.181			
6,500.00	6,361.68	6,371.68	6,371.68	31.01	220.71	-13.60	-837.85	-4,421.84	5,500.56	5,250.62	249.93	22.008			
6,550.00	6,411.34	6,421.34	6,421.34	31.20	222.45	-13.73	-837.85	-4,421.84	5,494.98	5,243.14	251.84	21.820			
6,600.00	6,460.39	6,470.39	6,470.39	31.38	224.16	-13.96	-837.85	-4,421.84	5,485.62	5,231.92	253.71	21.622			
6,650.00	6,508.54	6,518.54	6,518.54	31.58	225.84	-14.29	-837.85	-4,421.84	5,472.56	5,217.03	255.53	21.417			
6,700.00	6,555.48	6,565.48	6,565.48	31.78	227.48	-14.73	-837.85	-4,421.84	5,455.87	5,198.58	257.29	21.205			
6,750.00	6,600.93	6,610.93	6,610.93	31.98	229.07	-15.31	-837.85	-4,421.84	5,435.65	5,176.67	258.99	20.988			
6,800.00	6,644.61	6,654.61	6,654.61	32.20	230.59	-16.03	-837.85	-4,421.84	5,412.04	5,151.44	260.61	20.767			
6,850.00	6,686.25	6,703.75	6,696.25	32.44	232.31	-16.92	-837.85	-4,421.84	5,385.18	5,122.78	262.40	20.523			
6,900.00	6,725.58	6,735.58	6,735.58	32.68	233.42	-18.03	-837.85	-4,421.84	5,355.24	5,091.67	263.57	20.318			
6,950.00	6,762.38	6,772.38	6,772.38	32.96	234.70	-19.40	-837.85	-4,421.84	5,322.41	5,057.50	264.91	20.092			
7,000.00	6,796.41	6,806.41	6,806.41	33.25	235.89	-21.11	-837.85	-4,421.84	5,286.89	5,020.76	266.13	19.866			
7,050.00	6,827.46	6,837.46	6,837.46	33.58	236.97	-23.25	-837.85	-4,421.84	5,248.91	4,981.66	267.25	19.641			
7,100.00	6,855.34	6,865.34	6,865.34	33.93	237.95	-25.96	-837.85	-4,421.84	5,208.70	4,940.46	268.24	19.418			
7,150.00	6,879.88	6,889.88	6,889.88	34.33	238.80	-29.46	-837.85	-4,421.84	5,166.52	4,897.41	269.11	19.198			
7,200.00	6,900.93	6,910.93	6,910.93	34.76	239.54	-34.03	-837.85	-4,421.84	5,122.63	4,852.77	269.86	18.983			
7,250.00	6,918.36	6,928.36	6,928.36	35.23	240.15	-40.12	-837.85	-4,421.84	5,077.30	4,806.82	270.48	18.772			
7,300.00	6,932.05	6,942.05	6,942.05	35.74	240.62	-48.33	-837.85	-4,421.84	5,030.82	4,759.84	270.97	18.566			
7,350.00	6,941.94	6,951.94	6,951.94	36.29	240.97	-59.30	-837.85	-4,421.84	4,983.47	4,712.13	271.33	18.367			
7,400.00	6,947.94	6,957.94	6,957.94	36.87	241.18	-73.32	-837.85	-4,421.84	4,935.55	4,663.98	271.57	18.174			
7,450.00	6,950.04	6,960.04	6,960.04	37.47	241.25	-89.44	-837.85	-4,421.84	4,887.36	4,615.68	271.68	17.990			
7,458.56	6,950.00	6,960.00	6,960.00	37.58	241.25	-92.25	-837.85	-4,421.84	4,879.10	4,607.42	271.68	17.959			
7,500.00	6,949.56	6,959.56	6,959.56	38.11	241.24	-92.23	-837.85	-4,421.84	4,839.15	4,567.44	271.71	17.810			
7,600.00	6,948.48	6,958.48	6,958.48	39.51	241.20	-92.19	-837.85	-4,421.84	4,742.85	4,471.06	271.78	17.451			
7,700.00	6,947.40	6,957.40	6,957.40	41.06	241.16	-92.14	-837.85	-4,421.84	4,646.70	4,374.81	271.89	17.091			
7,800.00	6,946.32	6,956.32	6,956.32	42.74	241.12	-92.09	-837.85	-4,421.84	4,550.72	4,278.69	272.03	16.729			
7,900.00	6,945.24	6,955.24	6,955.24	44.55	241.08	-92.04	-837.85	-4,421.84	4,454.91	4,182.70	272.21	16.366			
8,000.00	6,944.16	6,954.16	6,954.16	46.46	241.05	-91.99	-837.85	-4,421.84	4,359.29	4,086.86	272.43	16.002			
8,100.00	6,943.08	6,953.08	6,953.08	48.47	241.01	-91.95	-837.85	-4,421.84	4,263.87	3,991.18	272.70	15.636			
8,200.00	6,942.01	6,952.01	6,952.01	50.55	240.97	-91.90	-837.85	-4,421.84	4,168.67	3,895.66	273.01	15.269			
8,300.00	6,940.93	6,950.93	6,950.93	52.71	240.93	-91.85	-837.85	-4,421.84	4,073.70	3,800.32	273.38	14.901			
8,400.00	6,939.85	6,949.85	6,949.85	54.93	240.90	-91.80	-837.85	-4,421.84	3,978.97	3,705.16	273.81	14.532			
8,500.00	6,938.77	6,948.77	6,948.77	57.20	240.86	-91.76	-837.85	-4,421.84	3,884.51	3,610.20	274.31	14.161			
8,600.00	6,937.69	6,947.69	6,947.69	59.53	240.82	-91.71	-837.85	-4,421.84	3,790.33	3,515.45	274.88	13.789			
8,700.00	6,936.61	6,946.61	6,946.61	61.89	240.78	-91.66	-837.85	-4,421.84	3,696.46	3,420.94	275.52	13.416			
8,800.00	6,935.54	6,945.54	6,945.54	64.30	240.75	-91.61	-837.85	-4,421.84	3,602.91	3,326.67	276.24	13.042			

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - FRAKER #1 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2° Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	6,934.46	6,944.46	6,944.46	66.74	240.71	-91.56	-837.85	-4,421.84	3,509.73	3,232.67	277.06	12.668		
9,000.00	6,933.38	6,943.38	6,943.38	69.21	240.67	-91.52	-837.85	-4,421.84	3,416.92	3,138.95	277.97	12.292		
9,100.00	6,932.30	6,942.30	6,942.30	71.71	240.63	-91.47	-837.85	-4,421.84	3,324.54	3,045.55	278.98	11.917		
9,200.00	6,931.22	6,941.22	6,941.22	74.23	240.60	-91.42	-837.85	-4,421.84	3,232.60	2,952.49	280.11	11.541		
9,300.00	6,930.14	6,940.14	6,940.14	76.78	240.56	-91.37	-837.85	-4,421.84	3,141.16	2,859.81	281.35	11.165		
9,400.00	6,929.06	6,939.06	6,939.06	79.34	240.52	-91.32	-837.85	-4,421.84	3,050.26	2,767.53	282.73	10.789		
9,500.00	6,927.99	6,937.99	6,937.99	81.93	240.48	-91.28	-837.85	-4,421.84	2,959.94	2,675.70	284.24	10.414		
9,600.00	6,926.91	6,936.91	6,936.91	84.53	240.44	-91.23	-837.85	-4,421.84	2,870.26	2,584.36	285.90	10.039		
9,700.00	6,925.83	6,935.83	6,935.83	87.14	240.41	-91.18	-837.85	-4,421.84	2,781.29	2,493.57	287.72	9.667		
9,800.00	6,924.75	6,934.75	6,934.75	89.77	240.37	-91.13	-837.85	-4,421.84	2,693.09	2,403.38	289.71	9.296		
9,900.00	6,923.67	6,933.67	6,933.67	92.41	240.33	-91.09	-837.85	-4,421.84	2,605.74	2,313.86	291.88	8.927		
10,000.00	6,922.59	6,932.59	6,932.59	95.07	240.29	-91.04	-837.85	-4,421.84	2,519.34	2,225.09	294.25	8.562		
10,100.00	6,921.51	6,931.51	6,931.51	97.73	240.26	-90.99	-837.85	-4,421.84	2,433.97	2,137.14	296.83	8.200		
10,200.00	6,920.44	6,930.44	6,930.44	100.40	240.22	-90.94	-837.85	-4,421.84	2,349.76	2,050.13	299.63	7.842		
10,300.00	6,919.36	6,929.36	6,929.36	103.08	240.18	-90.89	-837.85	-4,421.84	2,266.83	1,964.17	302.66	7.490		
10,400.00	6,918.28	6,928.28	6,928.28	105.77	240.14	-90.85	-837.85	-4,421.84	2,185.33	1,879.38	305.95	7.143		
10,500.00	6,917.20	6,927.20	6,927.20	108.47	240.11	-90.80	-837.85	-4,421.84	2,105.43	1,795.92	309.51	6.802		
10,600.00	6,916.12	6,926.12	6,926.12	111.18	240.07	-90.75	-837.85	-4,421.84	2,027.30	1,713.96	313.35	6.470		
10,700.00	6,915.04	6,925.04	6,925.04	113.89	240.03	-90.70	-837.85	-4,421.84	1,951.18	1,633.71	317.47	6.146		
10,800.00	6,913.96	6,923.96	6,923.96	116.61	239.99	-90.65	-837.85	-4,421.84	1,877.30	1,555.40	321.90	5.832		
10,900.00	6,912.89	6,922.89	6,922.89	119.33	239.96	-90.61	-837.85	-4,421.84	1,805.93	1,479.30	326.63	5.529		
11,000.00	6,911.81	6,921.81	6,921.81	122.06	239.92	-90.56	-837.85	-4,421.84	1,737.39	1,405.73	331.66	5.238		
11,100.00	6,910.73	6,920.73	6,920.73	124.79	239.88	-90.51	-837.85	-4,421.84	1,672.02	1,335.04	336.98	4.962		
11,200.00	6,909.65	6,919.65	6,919.65	127.53	239.84	-90.46	-837.85	-4,421.84	1,610.21	1,267.64	342.57	4.700		
11,300.00	6,908.57	6,918.57	6,918.57	130.27	239.80	-90.41	-837.85	-4,421.84	1,552.39	1,204.01	348.38	4.456		
11,400.00	6,907.49	6,917.49	6,917.49	133.02	239.77	-90.37	-837.85	-4,421.84	1,499.01	1,144.66	354.36	4.230		
11,500.00	6,906.41	6,916.41	6,916.41	135.77	239.73	-90.32	-837.85	-4,421.84	1,450.57	1,090.15	360.42	4.025		
11,600.00	6,905.34	6,915.34	6,915.34	138.52	239.69	-90.27	-837.85	-4,421.84	1,407.58	1,041.11	366.47	3.841		
11,700.00	6,904.26	6,914.26	6,914.26	141.28	239.65	-90.22	-837.85	-4,421.84	1,370.55	998.18	372.37	3.681		
11,800.00	6,903.18	6,913.18	6,913.18	144.04	239.62	-90.17	-837.85	-4,421.84	1,339.97	961.99	377.98	3.545		
11,900.00	6,902.10	6,912.10	6,912.10	146.80	239.58	-90.13	-837.85	-4,421.84	1,316.30	933.15	383.15	3.435		
12,000.00	6,901.02	6,911.02	6,911.02	149.57	239.54	-90.08	-837.85	-4,421.84	1,299.90	912.18	387.72	3.353		
12,100.00	6,899.94	6,909.94	6,909.94	152.34	239.50	-90.03	-837.85	-4,421.84	1,291.07	899.51	391.56	3.297		
12,164.46	6,899.25	6,909.25	6,909.25	154.13	239.48	-90.00	-837.85	-4,421.84	1,289.46	895.87	393.59	3.276	CC	
12,200.00	6,898.87	6,908.87	6,908.87	155.11	239.47	-89.98	-837.85	-4,421.84	1,289.95	895.39	394.56	3.269	ES	
12,300.00	6,897.79	6,907.79	6,907.79	157.89	239.43	-89.94	-837.85	-4,421.84	1,296.56	899.90	396.66	3.269	SF	
12,400.00	6,896.71	6,906.71	6,906.71	160.66	239.39	-89.89	-837.85	-4,421.84	1,310.79	912.93	397.86	3.295		
12,500.00	6,895.63	6,905.63	6,905.63	163.44	239.35	-89.84	-837.85	-4,421.84	1,332.40	934.22	398.18	3.346		
12,600.00	6,894.55	6,904.55	6,904.55	166.22	239.32	-89.79	-837.85	-4,421.84	1,361.02	963.32	397.70	3.422		
12,700.00	6,893.47	6,903.47	6,903.47	169.00	239.28	-89.74	-837.85	-4,421.84	1,396.24	999.71	396.53	3.521		
12,800.00	6,892.39	6,902.39	6,902.39	171.79	239.24	-89.70	-837.85	-4,421.84	1,437.56	1,042.78	394.78	3.641		
12,900.00	6,891.32	6,901.32	6,901.32	174.57	239.20	-89.65	-837.85	-4,421.84	1,484.47	1,091.91	392.57	3.781		
13,000.00	6,890.24	6,900.24	6,900.24	177.36	239.16	-89.60	-837.85	-4,421.84	1,536.47	1,146.46	390.01	3.940		
13,100.00	6,889.16	6,900.84	6,899.16	180.15	239.19	-89.55	-837.85	-4,421.84	1,593.06	1,205.78	387.28	4.113		
13,200.00	6,888.08	6,901.92	6,898.08	182.94	239.22	-89.50	-837.85	-4,421.84	1,653.76	1,269.35	384.42	4.302		
13,300.00	6,887.00	6,903.00	6,897.00	185.74	239.26	-89.46	-837.85	-4,421.84	1,718.14	1,336.67	381.47	4.504		
13,400.00	6,885.92	6,904.08	6,895.92	188.53	239.30	-89.41	-837.85	-4,421.84	1,785.80	1,407.30	378.50	4.718		
13,500.00	6,884.84	6,905.16	6,894.84	191.32	239.34	-89.36	-837.85	-4,421.84	1,856.39	1,480.83	375.56	4.943		
13,600.00	6,883.77	6,906.23	6,893.77	194.12	239.37	-89.31	-837.85	-4,421.84	1,929.57	1,556.90	372.67	5.178		
13,700.00	6,882.69	6,907.31	6,892.69	196.92	239.41	-89.26	-837.85	-4,421.84	2,005.07	1,635.22	369.85	5.421		
13,800.00	6,881.61	6,908.39	6,891.61	199.72	239.45	-89.22	-837.85	-4,421.84	2,082.64	1,715.50	367.14	5.673		
13,900.00	6,880.53	6,909.47	6,890.53	202.52	239.49	-89.17	-837.85	-4,421.84	2,162.05	1,797.52	364.52	5.931		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - FRAKER #1 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2" Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,879.45	6,889.45	6,889.45	205.32	238.79	-89.12	-837.85	-4,421.84	2,243.11	1,881.82	361.29	6.209		
14,100.00	6,878.37	6,888.37	6,888.37	208.12	238.75	-89.07	-837.85	-4,421.84	2,325.64	1,966.82	358.82	6.481		
14,200.00	6,877.29	6,887.29	6,887.29	210.92	238.71	-89.02	-837.85	-4,421.84	2,409.49	2,053.02	356.47	6.759		
14,300.00	6,876.22	6,886.22	6,886.22	213.73	238.68	-88.98	-837.85	-4,421.84	2,494.54	2,140.31	354.23	7.042		
14,400.00	6,875.14	6,885.14	6,885.14	216.53	238.64	-88.93	-837.85	-4,421.84	2,580.65	2,228.56	352.09	7.329		
14,500.00	6,874.06	6,884.06	6,884.06	219.34	238.60	-88.88	-837.85	-4,421.84	2,667.74	2,317.67	350.07	7.621		
14,600.00	6,872.98	6,882.98	6,882.98	222.15	238.56	-88.83	-837.85	-4,421.84	2,755.70	2,407.56	348.14	7.916		
14,700.00	6,871.90	6,881.90	6,881.90	224.95	238.52	-88.79	-837.85	-4,421.84	2,844.45	2,498.15	346.30	8.214		
14,800.00	6,870.82	6,880.82	6,880.82	227.76	238.49	-88.74	-837.85	-4,421.84	2,933.93	2,589.37	344.56	8.515		
14,900.00	6,869.75	6,879.75	6,879.75	230.57	238.45	-88.69	-837.85	-4,421.84	3,024.07	2,681.17	342.90	8.819		
15,000.00	6,868.67	6,878.67	6,878.67	233.38	238.41	-88.64	-837.85	-4,421.84	3,114.81	2,773.48	341.33	9.126		
15,100.00	6,867.59	6,877.59	6,877.59	236.19	238.37	-88.59	-837.85	-4,421.84	3,206.10	2,866.27	339.83	9.434		
15,200.00	6,866.51	6,876.51	6,876.51	239.00	238.34	-88.55	-837.85	-4,421.84	3,297.90	2,959.49	338.40	9.745		
15,300.00	6,865.43	6,875.43	6,875.43	241.81	238.30	-88.50	-837.85	-4,421.84	3,390.16	3,053.11	337.05	10.058		
15,400.00	6,864.35	6,874.35	6,874.35	244.63	238.26	-88.45	-837.85	-4,421.84	3,482.84	3,147.09	335.75	10.373		
15,500.00	6,863.27	6,873.27	6,873.27	247.44	238.22	-88.40	-837.85	-4,421.84	3,575.92	3,241.40	334.52	10.690		
15,600.00	6,862.20	6,872.20	6,872.20	250.25	238.19	-88.35	-837.85	-4,421.84	3,669.37	3,336.02	333.34	11.008		
15,618.10	6,862.00	6,872.00	6,872.00	250.76	238.18	-88.35	-837.85	-4,421.84	3,686.31	3,353.18	333.14	11.065		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - FRAKER J #6-2 - OH - OH													Offset Well Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	0.00	-85.44	338.81	-4,251.83	4,265.44					
100.00	100.00	66.00	66.00	3.28	1.15	-85.44	338.81	-4,251.83	4,265.30	4,260.87	4.44	961.345		
200.00	200.00	166.00	166.00	3.34	4.05	-85.44	338.81	-4,251.83	4,265.30	4,257.92	7.39	577.438		
300.00	299.98	265.98	265.98	3.44	7.54	-137.33	338.81	-4,251.83	4,266.59	4,255.60	10.98	388.438		
400.00	399.84	365.84	365.84	3.61	11.03	-137.33	338.81	-4,251.83	4,270.44	4,255.81	14.63	291.929		
500.00	499.45	465.45	465.45	3.81	14.50	-137.32	338.81	-4,251.83	4,276.86	4,258.55	18.31	233.576		
600.00	598.70	564.70	564.70	4.06	17.97	-137.31	338.81	-4,251.83	4,285.85	4,263.83	22.02	194.632		
700.00	697.47	663.47	663.47	4.35	21.42	-137.29	338.81	-4,251.83	4,297.41	4,271.66	25.75	166.897		
800.00	795.62	761.62	761.62	4.66	24.84	-137.27	338.81	-4,251.83	4,311.55	4,282.06	29.49	146.213		
900.00	893.06	859.06	859.06	5.01	28.24	-137.24	338.81	-4,251.83	4,328.26	4,295.03	33.23	130.248		
961.44	952.51	918.51	918.51	5.25	30.32	-137.22	338.81	-4,251.83	4,339.81	4,304.28	35.53	122.143		
1,000.00	989.71	955.71	955.71	5.40	31.62	-137.31	338.81	-4,251.83	4,347.37	4,310.40	36.97	117.582		
1,100.00	1,086.20	1,052.20	1,052.20	5.81	34.99	-137.54	338.81	-4,251.83	4,367.03	4,326.31	40.72	107.237		
1,200.00	1,182.69	1,148.69	1,148.69	6.24	38.36	-137.76	338.81	-4,251.83	4,386.75	4,342.26	44.49	98.601		
1,300.00	1,279.18	1,245.18	1,245.18	6.69	41.72	-137.99	338.81	-4,251.83	4,406.55	4,358.28	48.27	91.289		
1,400.00	1,375.67	1,341.67	1,341.67	7.15	45.09	-138.21	338.81	-4,251.83	4,426.41	4,374.34	52.06	85.022		
1,500.00	1,472.15	1,438.15	1,438.15	7.62	48.46	-138.44	338.81	-4,251.83	4,446.33	4,390.47	55.86	79.594		
1,600.00	1,568.64	1,534.64	1,534.64	8.10	51.83	-138.66	338.81	-4,251.83	4,466.32	4,406.65	59.67	74.849		
1,700.00	1,665.13	1,631.13	1,631.13	8.59	55.20	-138.87	338.81	-4,251.83	4,486.38	4,422.89	63.49	70.668		
1,800.00	1,761.62	1,727.62	1,727.62	9.08	58.57	-139.09	338.81	-4,251.83	4,506.50	4,439.20	67.31	66.956		
1,900.00	1,858.11	1,824.11	1,824.11	9.58	61.93	-139.31	338.81	-4,251.83	4,526.68	4,455.55	71.13	63.640		
2,000.00	1,954.60	1,920.60	1,920.60	10.08	65.30	-139.52	338.81	-4,251.83	4,546.93	4,471.97	74.96	60.660		
2,100.00	2,051.09	2,017.09	2,017.09	10.59	68.67	-139.73	338.81	-4,251.83	4,567.24	4,488.45	78.79	57.969		
2,200.00	2,147.57	2,113.57	2,113.57	11.09	72.04	-139.94	338.81	-4,251.83	4,587.60	4,504.98	82.62	55.525		
2,300.00	2,244.06	2,210.06	2,210.06	11.61	75.41	-140.15	338.81	-4,251.83	4,608.03	4,521.57	86.46	53.298		
2,400.00	2,340.55	2,306.55	2,306.55	12.12	78.78	-140.35	338.81	-4,251.83	4,628.52	4,538.22	90.30	51.259		
2,500.00	2,437.04	2,403.04	2,403.04	12.64	82.14	-140.55	338.81	-4,251.83	4,649.06	4,554.93	94.14	49.387		
2,600.00	2,533.53	2,500.00	2,500.00	13.15	85.55	-140.76	338.81	-4,251.83	4,669.66	4,571.65	98.01	47.645		
2,700.00	2,630.02	2,600.00	2,600.00	13.67	89.16	-140.96	338.81	-4,251.83	4,690.32	4,588.22	102.10	45.939		
2,800.00	2,726.50	2,700.00	2,700.00	14.19	92.77	-141.16	338.81	-4,251.83	4,711.04	4,604.85	106.19	44.366		
2,900.00	2,822.99	2,788.99	2,788.99	14.72	95.62	-141.35	338.81	-4,251.83	4,731.80	4,622.30	109.51	43.210		
3,000.00	2,919.48	2,885.48	2,885.48	15.24	98.99	-141.55	338.81	-4,251.83	4,752.63	4,639.27	113.35	41.928		
3,100.00	3,015.97	2,981.97	2,981.97	15.76	102.36	-141.74	338.81	-4,251.83	4,773.51	4,656.31	117.20	40.730		
3,200.00	3,112.46	3,078.46	3,078.46	16.29	105.72	-141.93	338.81	-4,251.83	4,794.44	4,673.39	121.05	39.608		
3,300.00	3,208.95	3,174.95	3,174.95	16.81	109.09	-142.12	338.81	-4,251.83	4,815.42	4,690.52	124.89	38.556		
3,400.00	3,305.44	3,271.44	3,271.44	17.34	112.46	-142.31	338.81	-4,251.83	4,836.45	4,707.71	128.74	37.567		
3,500.00	3,401.92	3,367.92	3,367.92	17.87	115.83	-142.50	338.81	-4,251.83	4,857.54	4,724.95	132.59	36.636		
3,600.00	3,498.41	3,464.41	3,464.41	18.40	119.20	-142.68	338.81	-4,251.83	4,878.67	4,742.23	136.44	35.757		
3,700.00	3,594.90	3,560.90	3,560.90	18.93	122.57	-142.87	338.81	-4,251.83	4,899.86	4,759.57	140.29	34.927		
3,800.00	3,691.39	3,657.39	3,657.39	19.46	125.93	-143.05	338.81	-4,251.83	4,921.09	4,776.96	144.14	34.142		
3,900.00	3,787.88	3,753.88	3,753.88	19.99	129.30	-143.23	338.81	-4,251.83	4,942.38	4,794.39	147.99	33.398		
4,000.00	3,884.37	3,850.37	3,850.37	20.52	132.67	-143.41	338.81	-4,251.83	4,963.71	4,811.87	151.84	32.691		
4,100.00	3,980.85	3,946.85	3,946.85	21.05	136.04	-143.59	338.81	-4,251.83	4,985.08	4,829.40	155.69	32.020		
4,200.00	4,077.34	4,043.34	4,043.34	21.58	139.41	-143.76	338.81	-4,251.83	5,006.51	4,846.97	159.54	31.382		
4,300.00	4,173.83	4,139.83	4,139.83	22.11	142.78	-143.94	338.81	-4,251.83	5,027.98	4,864.59	163.39	30.774		
4,390.25	4,260.91	4,226.91	4,226.91	22.59	145.82	-144.10	338.81	-4,251.83	5,047.39	4,880.53	166.86	30.249		
4,400.00	4,270.32	4,236.32	4,236.32	22.64	146.14	-144.14	338.81	-4,251.83	5,049.48	4,882.24	167.24	30.194		
4,500.00	4,367.33	4,333.33	4,333.33	23.16	149.53	-144.53	338.81	-4,251.83	5,069.38	4,898.28	171.10	29.679		
4,600.00	4,465.13	4,431.13	4,431.13	23.65	152.95	-144.87	338.81	-4,251.83	5,086.52	4,911.55	174.97	29.021		
4,700.00	4,563.60	4,529.60	4,529.60	24.12	156.38	-145.15	338.81	-4,251.83	5,100.87	4,922.01	178.85	28.520		
4,800.00	4,662.61	4,628.61	4,628.61	24.56	159.84	-145.37	338.81	-4,251.83	5,112.39	4,929.64	182.74	27.976		
4,900.00	4,762.05	4,728.05	4,728.05	24.98	163.31	-145.53	338.81	-4,251.83	5,121.06	4,934.42	186.64	27.439		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - FRAKER J #6-2 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2° Cone@2.448 Sigma														Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,827.80	4,827.80	25.38	166.79	-145.64	338.81	-4,251.83	5,126.87	4,936.34	190.52	26.909			
5,100.00	4,961.73	4,927.73	4,927.73	25.76	170.28	-145.70	338.81	-4,251.83	5,129.80	4,935.39	194.40	26.387			
5,151.69	5,013.42	4,979.42	4,979.42	25.95	172.09	-93.81	338.81	-4,251.83	5,130.18	4,933.78	196.41	26.120			
5,200.00	5,061.73	5,027.73	5,027.73	26.13	173.77	-93.81	338.81	-4,251.83	5,130.18	4,931.91	198.27	25.874			
5,300.00	5,161.73	5,127.73	5,127.73	26.49	177.26	-93.81	338.81	-4,251.83	5,130.18	4,928.05	202.14	25.380			
5,400.00	5,261.73	5,227.73	5,227.73	26.86	180.75	-93.81	338.81	-4,251.83	5,130.18	4,924.18	206.01	24.903			
5,500.00	5,361.73	5,327.73	5,327.73	27.23	184.25	-93.81	338.81	-4,251.83	5,130.18	4,920.31	209.88	24.444			
5,600.00	5,461.73	5,427.73	5,427.73	27.60	187.74	-93.81	338.81	-4,251.83	5,130.18	4,916.43	213.75	24.001			
5,700.00	5,561.73	5,527.73	5,527.73	27.97	191.23	-93.81	338.81	-4,251.83	5,130.18	4,912.56	217.62	23.574			
5,800.00	5,661.73	5,627.73	5,627.73	28.35	194.72	-93.81	338.81	-4,251.83	5,130.18	4,908.69	221.50	23.161			
5,900.00	5,761.73	5,727.73	5,727.73	28.72	198.21	-93.81	338.81	-4,251.83	5,130.18	4,904.81	225.38	22.763			
6,000.00	5,861.73	5,827.73	5,827.73	29.10	201.70	-93.81	338.81	-4,251.83	5,130.18	4,900.93	229.26	22.378			
6,100.00	5,961.73	5,927.73	5,927.73	29.48	205.19	-93.81	338.81	-4,251.83	5,130.18	4,897.05	233.14	22.005			
6,200.00	6,061.73	6,027.73	6,027.73	29.86	208.68	-93.81	338.81	-4,251.83	5,130.18	4,893.17	237.02	21.645			
6,300.00	6,161.73	6,127.73	6,127.73	30.25	212.17	-93.81	338.81	-4,251.83	5,130.18	4,889.28	240.90	21.296			
6,400.00	6,261.73	6,227.73	6,227.73	30.63	215.66	-93.81	338.81	-4,251.83	5,130.18	4,885.40	244.79	20.958			
6,451.69	6,313.42	6,279.42	6,279.42	30.83	217.47	-93.81	338.81	-4,251.83	5,130.18	4,883.39	246.79	20.787			
6,500.00	6,361.68	6,327.68	6,327.68	31.01	219.15	-1.36	338.81	-4,251.83	5,128.35	4,879.69	248.66	20.624			
6,550.00	6,411.34	6,377.34	6,377.34	31.20	220.89	-1.37	338.81	-4,251.83	5,122.61	4,872.05	250.56	20.444			
6,600.00	6,460.39	6,426.39	6,426.39	31.38	222.60	-1.40	338.81	-4,251.83	5,112.99	4,860.56	252.43	20.255			
6,650.00	6,508.54	6,474.54	6,474.54	31.58	224.28	-1.43	338.81	-4,251.83	5,099.56	4,845.30	254.26	20.056			
6,700.00	6,555.48	6,521.48	6,521.48	31.78	225.92	-1.48	338.81	-4,251.83	5,082.38	4,826.35	256.03	19.851			
6,750.00	6,600.93	6,566.93	6,566.93	31.98	227.51	-1.54	338.81	-4,251.83	5,061.58	4,803.85	257.73	19.639			
6,800.00	6,644.61	6,610.61	6,610.61	32.20	229.03	-1.61	338.81	-4,251.83	5,037.28	4,777.93	259.35	19.422			
6,850.00	6,686.25	6,652.25	6,652.25	32.44	230.48	-1.71	338.81	-4,251.83	5,009.63	4,748.73	260.89	19.202			
6,900.00	6,725.58	6,708.42	6,691.58	32.68	232.45	-1.83	338.81	-4,251.83	4,978.79	4,715.87	262.92	18.936			
6,950.00	6,762.38	6,728.38	6,728.38	32.96	233.14	-1.98	338.81	-4,251.83	4,944.97	4,681.29	263.68	18.754			
7,000.00	6,796.41	6,762.41	6,762.41	33.25	234.33	-2.17	338.81	-4,251.83	4,908.37	4,643.46	264.91	18.529			
7,050.00	6,827.46	6,806.54	6,793.46	33.58	235.87	-2.42	338.81	-4,251.83	4,869.20	4,602.72	266.48	18.272			
7,100.00	6,855.34	6,821.34	6,821.34	33.93	236.39	-2.74	338.81	-4,251.83	4,827.73	4,560.71	267.02	18.080			
7,150.00	6,879.88	6,845.88	6,845.88	34.33	237.24	-3.18	338.81	-4,251.83	4,784.19	4,516.31	267.89	17.859			
7,200.00	6,900.93	6,866.93	6,866.93	34.76	237.98	-3.80	338.81	-4,251.83	4,738.87	4,470.24	268.63	17.641			
7,250.00	6,918.36	6,884.36	6,884.36	35.23	238.59	-4.74	338.81	-4,251.83	4,692.03	4,422.80	269.23	17.427			
7,300.00	6,932.05	6,901.95	6,898.05	35.74	239.20	-6.31	338.81	-4,251.83	4,643.98	4,374.13	269.84	17.210			
7,350.00	6,941.94	6,907.94	6,907.94	36.29	239.41	-9.42	338.81	-4,251.83	4,594.99	4,324.94	270.05	17.016			
7,400.00	6,947.94	6,913.94	6,913.94	36.87	239.62	-18.20	338.81	-4,251.83	4,545.38	4,275.13	270.25	16.819			
7,450.00	6,950.04	6,916.04	6,916.04	37.47	239.69	-84.37	338.81	-4,251.83	4,495.46	4,225.14	270.32	16.630			
7,458.56	6,950.00	6,916.00	6,916.00	37.58	239.69	-111.76	338.81	-4,251.83	4,486.90	4,216.58	270.32	16.598			
7,500.00	6,949.56	6,915.56	6,915.56	38.11	239.68	-111.58	338.81	-4,251.83	4,445.48	4,175.17	270.31	16.446			
7,600.00	6,948.48	6,914.48	6,914.48	39.51	239.64	-111.14	338.81	-4,251.83	4,345.52	4,075.25	270.27	16.079			
7,700.00	6,947.40	6,913.40	6,913.40	41.06	239.60	-110.69	338.81	-4,251.83	4,245.57	3,975.34	270.23	15.711			
7,800.00	6,946.32	6,912.32	6,912.32	42.74	239.56	-110.24	338.81	-4,251.83	4,145.62	3,875.42	270.20	15.343			
7,900.00	6,945.24	6,911.24	6,911.24	44.55	239.53	-109.79	338.81	-4,251.83	4,045.67	3,775.50	270.17	14.975			
8,000.00	6,944.16	6,910.16	6,910.16	46.46	239.49	-109.34	338.81	-4,251.83	3,945.72	3,675.58	270.13	14.606			
8,100.00	6,943.08	6,909.08	6,909.08	48.47	239.45	-108.89	338.81	-4,251.83	3,845.77	3,575.67	270.10	14.238			
8,200.00	6,942.01	6,908.01	6,908.01	50.55	239.41	-108.43	338.81	-4,251.83	3,745.83	3,475.75	270.08	13.870			
8,300.00	6,940.93	6,906.93	6,906.93	52.71	239.38	-107.97	338.81	-4,251.83	3,645.89	3,375.84	270.05	13.501			
8,400.00	6,939.85	6,905.85	6,905.85	54.93	239.34	-107.51	338.81	-4,251.83	3,545.95	3,275.93	270.02	13.132			
8,500.00	6,938.77	6,904.77	6,904.77	57.20	239.30	-107.04	338.81	-4,251.83	3,446.02	3,176.02	270.00	12.763			
8,600.00	6,937.69	6,903.69	6,903.69	59.53	239.26	-106.57	338.81	-4,251.83	3,346.09	3,076.11	269.98	12.394			
8,700.00	6,936.61	6,902.61	6,902.61	61.89	239.23	-106.10	338.81	-4,251.83	3,246.16	2,976.20	269.96	12.025			
8,800.00	6,935.54	6,901.54	6,901.54	64.30	239.19	-105.63	338.81	-4,251.83	3,146.24	2,876.30	269.94	11.655			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - FRAKER J #6-2 - OH - OH													Offset Well Error:	0.00 ft
Survey Program: 100-2° Cone@2.448 Sigma														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
8,900.00	6,934.46	6,900.46	6,900.46	66.74	239.15	-105.16	338.81	-4,251.83	3,046.32	2,776.40	269.92	11.286		
9,000.00	6,933.38	6,900.62	6,899.38	69.21	239.16	-104.68	338.81	-4,251.83	2,946.41	2,676.45	269.95	10.915		
9,100.00	6,932.30	6,901.70	6,898.30	71.71	239.19	-104.20	338.81	-4,251.83	2,846.50	2,576.48	270.02	10.542		
9,200.00	6,931.22	6,902.78	6,897.22	74.23	239.23	-103.72	338.81	-4,251.83	2,746.60	2,476.52	270.09	10.169		
9,300.00	6,930.14	6,903.86	6,896.14	76.78	239.27	-103.24	338.81	-4,251.83	2,646.71	2,376.55	270.16	9.797		
9,400.00	6,929.06	6,904.94	6,895.06	79.34	239.31	-102.76	338.81	-4,251.83	2,546.82	2,276.59	270.23	9.425		
9,500.00	6,927.99	6,906.01	6,893.99	81.93	239.34	-102.27	338.81	-4,251.83	2,446.95	2,176.63	270.31	9.052		
9,600.00	6,926.91	6,907.09	6,892.91	84.53	239.38	-101.78	338.81	-4,251.83	2,347.08	2,076.68	270.40	8.680		
9,700.00	6,925.83	6,908.17	6,891.83	87.14	239.42	-101.29	338.81	-4,251.83	2,247.23	1,976.74	270.49	8.308		
9,800.00	6,924.75	6,909.25	6,890.75	89.77	239.46	-100.80	338.81	-4,251.83	2,147.38	1,876.80	270.59	7.936		
9,900.00	6,923.67	6,889.67	6,889.67	92.41	238.77	-100.31	338.81	-4,251.83	2,047.56	1,777.58	269.97	7.584		
10,000.00	6,922.59	6,888.59	6,888.59	95.07	238.74	-99.82	338.81	-4,251.83	1,947.75	1,677.73	270.02	7.213		
10,100.00	6,921.51	6,887.51	6,887.51	97.73	238.70	-99.32	338.81	-4,251.83	1,847.96	1,577.88	270.07	6.842		
10,200.00	6,920.44	6,886.44	6,886.44	100.40	238.66	-98.82	338.81	-4,251.83	1,748.19	1,478.04	270.14	6.471		
10,300.00	6,919.36	6,885.36	6,885.36	103.08	238.62	-98.32	338.81	-4,251.83	1,648.45	1,378.21	270.24	6.100		
10,400.00	6,918.28	6,884.28	6,884.28	105.77	238.59	-97.82	338.81	-4,251.83	1,548.74	1,278.38	270.36	5.728		
10,500.00	6,917.20	6,883.20	6,883.20	108.47	238.55	-97.32	338.81	-4,251.83	1,449.08	1,178.56	270.52	5.357		
10,600.00	6,916.12	6,882.12	6,882.12	111.18	238.51	-96.82	338.81	-4,251.83	1,349.46	1,078.74	270.72	4.985		
10,700.00	6,915.04	6,881.04	6,881.04	113.89	238.47	-96.32	338.81	-4,251.83	1,249.90	978.92	270.98	4.613		
10,800.00	6,913.96	6,879.96	6,879.96	116.61	238.43	-95.81	338.81	-4,251.83	1,150.42	879.09	271.33	4.240		
10,900.00	6,912.89	6,878.89	6,878.89	119.33	238.40	-95.31	338.81	-4,251.83	1,051.03	779.24	271.80	3.867		
11,000.00	6,911.81	6,877.81	6,877.81	122.06	238.36	-94.80	338.81	-4,251.83	951.78	679.34	272.43	3.494		
11,100.00	6,910.73	6,876.73	6,876.73	124.79	238.32	-94.30	338.81	-4,251.83	852.69	579.37	273.32	3.120		
11,200.00	6,909.65	6,875.65	6,875.65	127.53	238.28	-93.79	338.81	-4,251.83	753.85	479.26	274.59	2.745		
11,300.00	6,908.57	6,874.57	6,874.57	130.27	238.25	-93.28	338.81	-4,251.83	655.35	379.00	276.45	2.371		
11,400.00	6,907.49	6,873.49	6,873.49	133.02	238.21	-92.77	338.81	-4,251.83	557.39	278.09	279.30	1.996		
11,500.00	6,906.41	6,872.41	6,872.41	135.77	238.17	-92.26	338.81	-4,251.83	460.30	176.44	283.86	1.622		
11,600.00	6,905.34	6,871.34	6,871.34	138.52	238.13	-91.75	338.81	-4,251.83	364.78	73.21	291.57	1.251	Level 3	
11,700.00	6,904.26	6,870.26	6,870.26	141.28	238.10	-91.24	338.81	-4,251.83	272.50	-33.06	305.56	0.892	Level 1	
11,800.00	6,903.18	6,869.18	6,869.18	144.04	238.06	-90.73	338.81	-4,251.83	188.26	-144.28	332.55	0.566	Level 1	
11,900.00	6,902.10	6,868.10	6,868.10	146.80	238.02	-90.22	338.81	-4,251.83	128.95	-246.82	375.77	0.343	Level 1	
11,944.09	6,901.63	6,867.63	6,867.63	148.02	238.00	-90.00	338.81	-4,251.83	121.18	-264.83	386.02	0.314	Level 1, CC, ES, SF	
12,000.00	6,901.02	6,867.02	6,867.02	149.57	237.98	-89.71	338.81	-4,251.83	133.46	-241.75	375.21	0.356	Level 1	
12,100.00	6,899.94	6,865.94	6,865.94	152.34	237.95	-89.21	338.81	-4,251.83	197.46	-138.73	336.19	0.587	Level 1	
12,200.00	6,898.87	6,864.87	6,864.87	155.11	237.91	-88.70	338.81	-4,251.83	283.14	-28.72	311.86	0.908	Level 1	
12,300.00	6,897.79	6,863.79	6,863.79	157.89	237.87	-88.19	338.81	-4,251.83	375.96	77.31	298.65	1.259	Level 3	
12,400.00	6,896.71	6,862.71	6,862.71	160.66	237.83	-87.68	338.81	-4,251.83	471.72	180.79	290.93	1.621		
12,500.00	6,895.63	6,861.63	6,861.63	163.44	237.79	-87.17	338.81	-4,251.83	568.94	282.86	286.08	1.989		
12,600.00	6,894.55	6,860.55	6,860.55	166.22	237.76	-86.66	338.81	-4,251.83	666.98	384.14	282.83	2.358		
12,700.00	6,893.47	6,859.47	6,859.47	169.00	237.72	-86.15	338.81	-4,251.83	765.52	484.96	280.56	2.729		
12,800.00	6,892.39	6,858.39	6,858.39	171.79	237.68	-85.64	338.81	-4,251.83	864.40	585.49	278.91	3.099		
12,900.00	6,891.32	6,857.32	6,857.32	174.57	237.64	-85.14	338.81	-4,251.83	963.51	685.83	277.67	3.470		
13,000.00	6,890.24	6,856.24	6,856.24	177.36	237.61	-84.63	338.81	-4,251.83	1,062.78	786.06	276.72	3.841		
13,100.00	6,889.16	6,855.16	6,855.16	180.15	237.57	-84.13	338.81	-4,251.83	1,162.18	886.21	275.98	4.211		
13,200.00	6,888.08	6,854.08	6,854.08	182.94	237.53	-83.62	338.81	-4,251.83	1,261.67	986.29	275.38	4.582		
13,300.00	6,887.00	6,853.00	6,853.00	185.74	237.49	-83.12	338.81	-4,251.83	1,361.24	1,086.34	274.90	4.952		
13,400.00	6,885.92	6,851.92	6,851.92	188.53	237.46	-82.62	338.81	-4,251.83	1,460.86	1,186.36	274.50	5.322		
13,500.00	6,884.84	6,850.84	6,850.84	191.32	237.42	-82.12	338.81	-4,251.83	1,560.54	1,286.36	274.17	5.692		
13,600.00	6,883.77	6,849.77	6,849.77	194.12	237.38	-81.62	338.81	-4,251.83	1,660.25	1,386.34	273.90	6.061		
13,700.00	6,882.69	6,848.69	6,848.69	196.92	237.34	-81.12	338.81	-4,251.83	1,759.99	1,486.32	273.67	6.431		
13,800.00	6,881.61	6,847.61	6,847.61	199.72	237.30	-80.62	338.81	-4,251.83	1,859.76	1,586.28	273.48	6.800		
13,900.00	6,880.53	6,846.53	6,846.53	202.52	237.27	-80.13	338.81	-4,251.83	1,959.55	1,686.24	273.31	7.170		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - FRAKER J #6-2 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma														Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,879.45	6,845.45	6,845.45	205.32	237.23	-79.63	338.81	-4,251.83	2,059.36	1,786.19	273.17	7.539			
14,100.00	6,878.37	6,844.37	6,844.37	208.12	237.19	-79.14	338.81	-4,251.83	2,159.19	1,886.14	273.05	7.908			
14,200.00	6,877.29	6,843.29	6,843.29	210.92	237.15	-78.65	338.81	-4,251.83	2,259.04	1,986.08	272.95	8.276			
14,300.00	6,876.22	6,842.22	6,842.22	213.73	237.12	-78.16	338.81	-4,251.83	2,358.89	2,086.02	272.87	8.645			
14,400.00	6,875.14	6,841.14	6,841.14	216.53	237.08	-77.67	338.81	-4,251.83	2,458.76	2,185.97	272.79	9.013			
14,500.00	6,874.06	6,840.06	6,840.06	219.34	237.04	-77.19	338.81	-4,251.83	2,558.64	2,285.90	272.73	9.381			
14,600.00	6,872.98	6,838.98	6,838.98	222.15	237.00	-76.70	338.81	-4,251.83	2,658.52	2,385.84	272.68	9.750			
14,700.00	6,871.90	6,837.90	6,837.90	224.95	236.97	-76.22	338.81	-4,251.83	2,758.42	2,485.78	272.64	10.118			
14,800.00	6,870.82	6,836.82	6,836.82	227.76	236.93	-75.74	338.81	-4,251.83	2,858.32	2,585.71	272.60	10.485			
14,900.00	6,869.75	6,835.75	6,835.75	230.57	236.89	-75.26	338.81	-4,251.83	2,958.23	2,685.65	272.58	10.853			
15,000.00	6,868.67	6,834.67	6,834.67	233.38	236.85	-74.79	338.81	-4,251.83	3,058.14	2,785.58	272.55	11.220			
15,100.00	6,867.59	6,833.59	6,833.59	236.19	236.82	-74.31	338.81	-4,251.83	3,158.06	2,885.52	272.54	11.588			
15,200.00	6,866.51	6,832.51	6,832.51	239.00	236.78	-73.84	338.81	-4,251.83	3,257.98	2,985.45	272.53	11.955			
15,300.00	6,865.43	6,831.43	6,831.43	241.81	236.74	-73.37	338.81	-4,251.83	3,357.91	3,085.38	272.52	12.322			
15,400.00	6,864.35	6,830.35	6,830.35	244.63	236.70	-72.90	338.81	-4,251.83	3,457.84	3,185.32	272.52	12.688			
15,500.00	6,863.27	6,829.27	6,829.27	247.44	236.66	-72.44	338.81	-4,251.83	3,557.77	3,285.25	272.52	13.055			
15,600.00	6,862.20	6,828.20	6,828.20	250.25	236.63	-71.98	338.81	-4,251.83	3,657.71	3,385.18	272.53	13.421			
15,618.10	6,862.00	6,828.00	6,828.00	250.76	236.62	-71.89	338.81	-4,251.83	3,675.79	3,403.26	272.53	13.488			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - GREELEY TECH CENTER #41-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	71.53	820.53	2,456.01	2,589.46						
100.00	100.00	92.57	92.57	3.28	3.29	71.53	820.56	2,456.07	2,589.52	2,582.95	6.57	394.100			
200.00	200.00	194.98	194.98	3.34	3.34	71.52	820.69	2,456.12	2,589.61	2,582.94	6.68	387.940			
300.00	299.98	306.04	306.04	3.44	3.46	19.65	820.94	2,455.84	2,587.80	2,580.90	6.90	374.906			
400.00	399.84	412.71	412.70	3.61	3.63	19.72	821.21	2,455.18	2,582.36	2,575.13	7.23	357.022			
500.00	499.45	518.92	518.92	3.81	3.85	19.84	821.39	2,454.20	2,573.33	2,565.68	7.66	336.104			
600.00	598.70	613.62	613.61	4.06	4.07	20.01	821.31	2,453.41	2,561.05	2,552.92	8.13	315.060			
700.00	697.47	710.73	710.71	4.35	4.33	20.23	821.35	2,452.68	2,545.65	2,536.98	8.67	293.645			
800.00	795.62	811.89	811.88	4.66	4.63	20.50	821.58	2,451.82	2,527.00	2,517.72	9.27	272.455			
900.00	893.06	910.46	910.43	5.01	4.93	20.83	821.80	2,450.90	2,505.08	2,495.16	9.92	252.564			
961.44	952.51	970.71	970.68	5.25	5.13	21.07	821.91	2,450.31	2,490.02	2,479.68	10.33	240.933			
1,000.00	989.71	1,009.14	1,009.11	5.40	5.26	21.15	821.98	2,449.92	2,480.19	2,469.58	10.60	233.925			
1,100.00	1,086.20	1,115.36	1,115.32	5.81	5.62	21.38	822.21	2,448.57	2,454.48	2,443.15	11.33	216.616			
1,200.00	1,182.69	1,218.01	1,217.96	6.24	5.98	21.60	822.29	2,446.92	2,428.46	2,416.38	12.08	201.112			
1,300.00	1,279.18	1,312.94	1,312.87	6.69	6.33	21.82	822.39	2,445.30	2,402.38	2,389.57	12.82	187.463			
1,400.00	1,375.67	1,406.47	1,406.39	7.15	6.68	22.02	822.71	2,443.74	2,376.44	2,362.87	13.57	175.135			
1,500.00	1,472.15	1,508.40	1,508.31	7.62	7.06	22.26	822.94	2,441.98	2,350.44	2,336.08	14.37	163.597			
1,600.00	1,568.64	1,600.26	1,600.16	8.10	7.41	22.48	823.11	2,440.40	2,324.47	2,309.33	15.14	153.489			
1,700.00	1,665.13	1,697.78	1,697.66	8.59	7.79	22.71	823.32	2,438.75	2,298.58	2,282.63	15.95	144.095			
1,800.00	1,761.62	1,800.11	1,799.98	9.08	8.19	22.97	823.42	2,436.89	2,272.57	2,255.79	16.79	135.373			
1,900.00	1,858.11	1,889.26	1,889.11	9.58	8.54	23.19	823.59	2,435.25	2,246.61	2,229.03	17.58	127.793			
2,000.00	1,954.60	1,973.34	1,973.18	10.08	8.88	23.41	824.01	2,434.00	2,221.09	2,202.72	18.37	120.897			
2,100.00	2,051.09	2,063.53	2,063.35	10.59	9.24	23.63	824.81	2,433.00	2,196.06	2,176.87	19.19	114.454			
2,200.00	2,147.57	2,159.15	2,158.96	11.09	9.62	23.87	826.03	2,431.98	2,171.19	2,151.17	20.03	108.417			
2,300.00	2,244.06	2,253.25	2,253.03	11.61	10.00	24.08	828.04	2,430.77	2,146.38	2,125.52	20.87	102.864			
2,400.00	2,340.55	2,347.76	2,347.50	12.12	10.39	24.29	830.41	2,429.63	2,121.77	2,100.05	21.71	97.720			
2,500.00	2,437.04	2,437.62	2,437.32	12.64	10.75	24.49	832.98	2,428.54	2,097.26	2,074.71	22.55	93.008			
2,600.00	2,533.53	2,521.72	2,521.37	13.15	11.10	24.66	836.05	2,427.89	2,073.36	2,049.99	23.37	88.709			
2,700.00	2,630.02	2,614.77	2,614.34	13.67	11.48	24.85	839.64	2,427.46	2,049.85	2,025.62	24.23	84.608			
2,800.00	2,726.50	2,711.31	2,710.81	14.19	11.88	25.04	843.57	2,427.04	2,026.43	2,001.33	25.10	80.745			
2,900.00	2,822.99	2,801.65	2,801.06	14.72	12.26	25.23	847.43	2,426.78	2,003.22	1,977.27	25.95	77.195			
3,000.00	2,919.48	2,876.03	2,875.37	15.24	12.57	25.38	850.74	2,427.11	1,980.76	1,954.00	26.76	74.027			
3,100.00	3,015.97	2,968.33	2,967.57	15.76	12.96	25.58	854.96	2,428.29	1,959.13	1,931.51	27.62	70.927			
3,200.00	3,112.46	3,060.98	3,060.11	16.29	13.34	25.78	859.13	2,429.52	1,937.58	1,909.09	28.49	68.011			
3,300.00	3,208.95	3,152.59	3,151.61	16.81	13.73	25.99	863.40	2,431.05	1,916.40	1,887.05	29.36	65.281			
3,400.00	3,305.44	3,243.65	3,242.56	17.34	14.11	26.20	867.48	2,432.85	1,895.51	1,865.29	30.22	62.718			
3,500.00	3,401.92	3,337.91	3,336.72	17.87	14.50	26.45	871.04	2,435.24	1,875.03	1,843.93	31.10	60.290			
3,600.00	3,498.41	3,437.64	3,436.36	18.40	14.92	26.73	874.47	2,437.69	1,854.44	1,822.45	32.00	57.959			
3,700.00	3,594.90	3,532.14	3,530.77	18.93	15.32	27.00	877.79	2,440.11	1,834.02	1,801.14	32.88	55.784			
3,800.00	3,691.39	3,635.00	3,633.55	19.46	15.75	27.32	880.79	2,442.89	1,813.65	1,779.87	33.78	53.684			
3,900.00	3,787.88	3,745.44	3,743.94	19.99	16.21	27.71	882.71	2,445.34	1,792.65	1,757.94	34.71	51.645			
4,000.00	3,884.37	3,848.81	3,847.29	20.52	16.64	28.09	884.13	2,447.23	1,771.27	1,735.66	35.62	49.727			
4,100.00	3,980.85	3,952.92	3,951.38	21.05	17.07	28.50	885.35	2,448.77	1,749.60	1,713.07	36.53	47.894			
4,200.00	4,077.34	4,058.43	4,056.88	21.58	17.51	28.92	886.41	2,449.89	1,727.58	1,690.13	37.45	46.136			
4,300.00	4,173.83	4,157.35	4,155.79	22.11	17.93	29.31	887.63	2,450.49	1,705.23	1,666.88	38.35	44.469			
4,390.25	4,260.91	4,245.42	4,243.85	22.59	18.30	29.67	888.84	2,451.04	1,685.17	1,646.01	39.16	43.035			
4,400.00	4,270.32	4,255.27	4,253.70	22.64	18.34	29.69	888.99	2,451.09	1,683.01	1,643.76	39.25	42.883			
4,500.00	4,367.33	4,358.46	4,356.87	23.16	18.77	29.85	890.78	2,451.42	1,662.39	1,622.24	40.15	41.405			
4,600.00	4,465.13	4,479.35	4,477.74	23.65	19.28	30.03	892.87	2,450.91	1,644.10	1,603.04	41.07	40.035			
4,700.00	4,563.60	4,605.65	4,604.01	24.12	19.81	30.20	894.13	2,448.31	1,627.10	1,585.13	41.97	38.771			
4,800.00	4,662.61	4,708.97	4,707.28	24.56	20.25	30.27	894.78	2,445.25	1,612.17	1,569.34	42.83	37.644			
4,900.00	4,762.05	4,812.68	4,810.93	24.98	20.69	30.31	895.24	2,441.84	1,599.90	1,556.23	43.67	36.633			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - GREELEY TECH CENTER #41-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,910.38	4,908.57	25.38	21.10	30.30	895.70	2,438.60	1,590.61	1,546.10	44.50	35.741			
5,100.00	4,961.73	5,014.57	5,012.71	25.76	21.54	30.27	896.18	2,434.99	1,584.18	1,538.86	45.32	34.954			
5,151.69	5,013.42	5,064.74	5,062.84	25.95	21.76	82.13	896.48	2,433.22	1,582.01	1,536.27	45.74	34.590			
5,200.00	5,061.73	5,112.17	5,110.24	26.13	21.96	82.11	896.84	2,431.57	1,580.39	1,534.27	46.12	34.267			
5,300.00	5,161.73	5,212.79	5,210.80	26.49	22.38	82.08	897.29	2,428.08	1,577.03	1,530.11	46.92	33.612			
5,400.00	5,261.73	5,306.96	5,304.92	26.86	22.78	82.06	897.39	2,425.02	1,573.83	1,526.11	47.72	32.983			
5,500.00	5,361.73	5,393.96	5,391.89	27.23	23.15	82.04	897.48	2,422.74	1,571.24	1,522.73	48.51	32.389			
5,600.00	5,461.73	5,504.50	5,502.39	27.60	23.62	82.03	897.32	2,420.01	1,568.78	1,519.46	49.32	31.806			
5,700.00	5,561.73	5,597.79	5,595.65	27.97	24.02	82.03	897.17	2,417.58	1,566.17	1,516.04	50.13	31.244			
5,800.00	5,661.73	5,681.22	5,679.07	28.35	24.37	82.01	897.29	2,415.96	1,564.27	1,513.35	50.92	30.719			
5,900.00	5,761.73	5,778.29	5,776.13	28.72	24.78	82.00	897.54	2,414.78	1,563.10	1,511.37	51.73	30.217			
6,000.00	5,861.73	5,882.43	5,880.26	29.10	25.22	81.97	898.05	2,413.35	1,561.81	1,509.26	52.55	29.722			
6,100.00	5,961.73	5,979.22	5,977.03	29.48	25.63	81.93	898.98	2,411.86	1,560.43	1,507.07	53.36	29.245			
6,200.00	6,061.73	6,068.97	6,066.76	29.86	26.02	81.87	900.55	2,410.78	1,559.48	1,505.32	54.16	28.794			
6,300.00	6,161.73	6,172.83	6,170.59	30.25	26.46	81.77	903.18	2,409.84	1,558.95	1,503.97	54.98	28.355			
6,400.00	6,261.73	6,270.42	6,268.13	30.63	26.87	81.66	906.10	2,408.57	1,558.09	1,502.30	55.79	27.926			
6,451.69	6,313.42	6,321.82	6,319.49	30.83	27.09	81.59	907.71	2,408.02	1,557.79	1,501.57	56.22	27.711			
6,456.00	6,317.73	6,326.56	6,324.23	30.85	27.11	174.05	907.85	2,407.97	1,557.78	1,501.52	56.25	27.693	CC, ES		
6,500.00	6,361.68	6,374.88	6,372.53	31.01	27.32	173.99	909.26	2,407.37	1,559.23	1,502.62	56.61	27.545			
6,550.00	6,411.34	6,430.04	6,427.66	31.20	27.55	173.90	910.76	2,406.52	1,564.38	1,507.39	56.99	27.448			
6,600.00	6,460.39	6,485.06	6,482.65	31.38	27.79	173.80	912.29	2,405.46	1,573.22	1,515.85	57.37	27.424	SF		
6,650.00	6,508.54	6,531.73	6,529.29	31.58	27.98	173.67	913.65	2,404.47	1,585.77	1,528.06	57.71	27.477			
6,700.00	6,555.48	6,574.48	6,572.01	31.78	28.17	173.50	914.92	2,403.66	1,602.19	1,544.15	58.04	27.606			
6,750.00	6,600.93	6,619.39	6,616.89	31.98	28.36	173.30	916.28	2,402.92	1,622.34	1,563.99	58.34	27.806			
6,800.00	6,644.61	6,668.20	6,665.67	32.20	28.57	173.06	917.87	2,402.01	1,645.91	1,587.27	58.64	28.070			
6,850.00	6,686.25	6,714.99	6,712.42	32.44	28.77	172.76	919.49	2,400.98	1,672.72	1,613.82	58.90	28.397			
6,900.00	6,725.58	6,755.21	6,752.60	32.68	28.94	172.39	921.06	2,400.03	1,702.70	1,643.56	59.14	28.789			
6,950.00	6,762.38	6,794.00	6,791.34	32.96	29.10	171.93	922.73	2,399.05	1,735.67	1,676.31	59.36	29.239			
7,000.00	6,796.41	6,825.60	6,822.90	33.25	29.24	171.35	924.21	2,398.25	1,771.46	1,711.92	59.55	29.749			
7,050.00	6,827.46	6,853.62	6,850.88	33.58	29.36	170.59	925.63	2,397.59	1,809.93	1,750.23	59.71	30.314			
7,100.00	6,855.34	6,878.78	6,875.99	33.93	29.46	169.61	926.98	2,397.04	1,850.82	1,790.98	59.84	30.928			
7,150.00	6,879.88	6,901.25	6,898.42	34.33	29.56	168.30	928.25	2,396.58	1,893.85	1,833.89	59.96	31.586			
7,200.00	6,900.93	6,927.33	6,924.45	34.76	29.67	166.55	929.75	2,396.02	1,938.71	1,878.64	60.07	32.277			
7,250.00	6,918.36	6,949.35	6,946.43	35.23	29.77	164.01	931.01	2,395.51	1,985.08	1,924.93	60.15	33.001			
7,300.00	6,932.05	6,967.12	6,964.16	35.74	29.84	160.04	932.03	2,395.07	2,032.71	1,972.49	60.22	33.756			
7,350.00	6,941.94	6,980.47	6,977.48	36.29	29.90	153.11	932.80	2,394.72	2,081.32	2,021.05	60.27	34.535			
7,400.00	6,947.94	6,989.25	6,986.25	36.87	29.94	138.81	933.30	2,394.48	2,130.62	2,070.32	60.30	35.335			
7,450.00	6,950.04	6,993.35	6,990.34	37.47	29.95	104.93	933.53	2,394.37	2,180.32	2,120.01	60.31	36.149			
7,458.56	6,950.00	6,993.58	6,990.57	37.58	29.95	96.40	933.55	2,394.36	2,188.85	2,128.53	60.32	36.289			
7,500.00	6,949.56	6,994.32	6,991.31	38.11	29.96	96.62	933.59	2,394.34	2,230.14	2,169.81	60.32	36.970			
7,600.00	6,948.48	6,996.16	6,993.14	39.51	29.96	97.17	933.70	2,394.29	2,329.79	2,269.45	60.34	38.613			
7,700.00	6,947.40	6,998.03	6,995.01	41.06	29.97	97.72	933.80	2,394.24	2,429.47	2,369.12	60.35	40.254			
7,800.00	6,946.32	6,999.95	6,996.92	42.74	29.98	98.29	933.91	2,394.18	2,529.18	2,468.81	60.37	41.894			
7,900.00	6,945.24	7,001.90	6,998.88	44.55	29.99	98.86	934.02	2,394.13	2,628.91	2,568.52	60.39	43.532			
8,000.00	6,944.16	7,003.90	7,000.87	46.46	30.00	99.45	934.14	2,394.07	2,728.65	2,668.24	60.41	45.169			
8,100.00	6,943.08	7,005.95	7,002.91	48.47	30.01	100.05	934.26	2,394.01	2,828.42	2,767.98	60.43	46.804			
8,200.00	6,942.01	7,008.04	7,005.00	50.55	30.02	100.65	934.38	2,393.95	2,928.19	2,867.74	60.45	48.437			
8,300.00	6,940.93	7,010.18	7,007.13	52.71	30.02	101.27	934.50	2,393.89	3,027.98	2,967.51	60.48	50.068			
8,400.00	6,939.85	7,012.36	7,009.31	54.93	30.03	101.90	934.62	2,393.82	3,127.79	3,067.29	60.50	51.697			
8,500.00	6,938.77	7,014.60	7,011.55	57.20	30.04	102.54	934.75	2,393.76	3,227.60	3,167.08	60.53	53.324			
8,600.00	6,937.69	7,016.89	7,013.84	59.53	30.05	103.19	934.88	2,393.69	3,327.43	3,266.87	60.55	54.949			
8,700.00	6,936.61	7,019.24	7,016.18	61.89	30.06	103.85	935.02	2,393.62	3,427.26	3,366.68	60.58	56.572			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - GREELEY TECH CENTER #41-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,800.00	6,935.54	7,012.52	7,009.48	64.30	30.03	101.95	934.63	2,393.83	3,527.12	3,466.53	60.59	58.211			
8,900.00	6,934.46	7,013.71	7,010.66	66.74	30.04	102.29	934.70	2,393.80	3,626.98	3,566.36	60.62	59.832			
9,000.00	6,933.38	7,014.88	7,011.83	69.21	30.04	102.62	934.76	2,393.76	3,726.84	3,666.19	60.65	61.451			
9,100.00	6,932.30	7,016.05	7,012.99	71.71	30.05	102.95	934.83	2,393.73	3,826.71	3,766.03	60.68	63.068			
9,200.00	6,931.22	7,017.20	7,014.14	74.23	30.05	103.28	934.89	2,393.70	3,926.58	3,865.88	60.71	64.682			
9,300.00	6,930.14	7,018.33	7,015.27	76.78	30.06	103.60	934.96	2,393.67	4,026.46	3,965.72	60.74	66.293			
9,400.00	6,929.06	7,019.46	7,016.40	79.34	30.06	103.91	935.02	2,393.64	4,126.35	4,065.58	60.77	67.902			
9,500.00	6,927.99	7,020.58	7,017.51	81.93	30.07	104.23	935.09	2,393.61	4,226.24	4,165.44	60.80	69.509			
9,600.00	6,926.91	7,021.68	7,018.62	84.53	30.07	104.53	935.15	2,393.58	4,326.13	4,265.30	60.84	71.112			
9,700.00	6,925.83	7,022.78	7,019.71	87.14	30.08	104.84	935.21	2,393.55	4,426.03	4,365.16	60.87	72.713			
9,800.00	6,924.75	7,023.86	7,020.79	89.77	30.08	105.14	935.27	2,393.52	4,525.94	4,465.03	60.91	74.311			
9,900.00	6,923.67	7,024.93	7,021.86	92.41	30.09	105.44	935.33	2,393.49	4,625.85	4,564.90	60.94	75.906			
10,000.00	6,922.59	7,026.00	7,022.92	95.07	30.09	105.73	935.39	2,393.46	4,725.76	4,664.78	60.98	77.498			
10,100.00	6,921.51	7,027.05	7,023.97	97.73	30.10	106.02	935.45	2,393.43	4,825.67	4,764.65	61.02	79.087			
10,200.00	6,920.44	7,028.09	7,025.01	100.40	30.10	106.30	935.51	2,393.41	4,925.59	4,864.53	61.06	80.672			
10,300.00	6,919.36	7,029.12	7,026.04	103.08	30.11	106.58	935.57	2,393.38	5,025.51	4,964.41	61.10	82.254			
10,400.00	6,918.28	7,030.15	7,027.06	105.77	30.11	106.86	935.62	2,393.35	5,125.43	5,064.30	61.14	83.833			
10,500.00	6,917.20	7,031.16	7,028.07	108.47	30.11	107.14	935.68	2,393.33	5,225.36	5,164.18	61.18	85.409			
10,600.00	6,916.12	7,032.16	7,029.08	111.18	30.12	107.41	935.74	2,393.30	5,325.29	5,264.07	61.22	86.981			
10,700.00	6,915.04	7,033.16	7,030.07	113.89	30.12	107.67	935.79	2,393.27	5,425.22	5,363.95	61.27	88.550			
10,800.00	6,913.96	7,034.14	7,031.05	116.61	30.13	107.94	935.85	2,393.25	5,525.15	5,463.84	61.31	90.115			
10,900.00	6,912.89	7,035.12	7,032.02	119.33	30.13	108.20	935.90	2,393.22	5,625.09	5,563.73	61.36	91.676			
11,000.00	6,911.81	7,036.08	7,032.99	122.06	30.14	108.45	935.96	2,393.20	5,725.03	5,663.62	61.41	93.234			
11,100.00	6,910.73	7,037.04	7,033.95	124.79	30.14	108.71	936.01	2,393.17	5,824.97	5,763.51	61.45	94.787			
11,200.00	6,909.65	7,037.99	7,034.89	127.53	30.14	108.96	936.06	2,393.15	5,924.91	5,863.41	61.50	96.337			
11,300.00	6,908.57	7,038.93	7,035.83	130.27	30.15	109.21	936.12	2,393.12	6,024.85	5,963.30	61.55	97.883			
11,400.00	6,907.49	7,039.86	7,036.76	133.02	30.15	109.45	936.17	2,393.10	6,124.80	6,063.19	61.60	99.425			
11,500.00	6,906.41	7,040.79	7,037.68	135.77	30.16	109.69	936.22	2,393.07	6,224.74	6,163.09	61.65	100.963			
11,600.00	6,905.34	7,041.70	7,038.60	138.52	30.16	109.93	936.27	2,393.05	6,324.69	6,262.98	61.71	102.497			
11,700.00	6,904.26	7,042.61	7,039.50	141.28	30.16	110.17	936.32	2,393.03	6,424.64	6,362.88	61.76	104.027			
11,800.00	6,903.18	7,043.51	7,040.40	144.04	30.17	110.40	936.37	2,393.00	6,524.59	6,462.78	61.81	105.552			
11,900.00	6,902.10	7,044.40	7,041.29	146.80	30.17	110.63	936.42	2,392.98	6,624.54	6,562.67	61.87	107.074			
12,000.00	6,901.02	7,045.28	7,042.17	149.57	30.17	110.85	936.47	2,392.96	6,724.50	6,662.57	61.93	108.591			
12,100.00	6,899.94	7,046.16	7,043.05	152.34	30.18	111.08	936.52	2,392.94	6,824.45	6,762.47	61.98	110.103			
12,200.00	6,898.87	7,047.03	7,043.91	155.11	30.18	111.30	936.57	2,392.91	6,924.41	6,862.37	62.04	111.611			
12,300.00	6,897.79	7,047.89	7,044.77	157.89	30.19	111.52	936.61	2,392.89	7,024.36	6,962.26	62.10	113.115			
12,400.00	6,896.71	7,048.74	7,045.62	160.66	30.19	111.73	936.66	2,392.87	7,124.32	7,062.16	62.16	114.614			
12,500.00	6,895.63	7,049.58	7,046.47	163.44	30.19	111.95	936.71	2,392.85	7,224.28	7,162.06	62.22	116.109			
12,600.00	6,894.55	7,050.42	7,047.30	166.22	30.20	112.16	936.75	2,392.83	7,324.24	7,261.96	62.28	117.599			
12,700.00	6,893.47	7,051.25	7,048.13	169.00	30.20	112.37	936.80	2,392.81	7,424.20	7,361.86	62.34	119.084			
12,800.00	6,892.39	7,052.08	7,048.95	171.79	30.20	112.57	936.84	2,392.79	7,524.16	7,461.75	62.41	120.565			
12,900.00	6,891.32	7,052.90	7,049.77	174.57	30.21	112.77	936.89	2,392.76	7,624.12	7,561.65	62.47	122.041			
13,000.00	6,890.24	7,053.71	7,050.58	177.36	30.21	112.98	936.93	2,392.74	7,724.09	7,661.55	62.54	123.512			
13,100.00	6,889.16	7,054.51	7,051.38	180.15	30.21	113.17	936.98	2,392.72	7,824.05	7,761.45	62.60	124.978			
13,200.00	6,888.08	7,055.31	7,052.18	182.94	30.22	113.37	937.02	2,392.70	7,924.02	7,861.35	62.67	126.439			
13,300.00	6,887.00	7,056.10	7,052.96	185.74	30.22	113.56	937.07	2,392.68	8,023.98	7,961.24	62.74	127.896			
13,400.00	6,885.92	7,056.88	7,053.75	188.53	30.22	113.76	937.11	2,392.67	8,123.95	8,061.14	62.81	129.347			
13,500.00	6,884.84	7,057.66	7,054.52	191.32	30.23	113.95	937.15	2,392.65	8,223.92	8,161.04	62.88	130.794			
13,600.00	6,883.77	7,058.43	7,055.29	194.12	30.23	114.13	937.19	2,392.63	8,323.88	8,260.94	62.95	132.236			
13,700.00	6,882.69	7,059.19	7,056.05	196.92	30.23	114.32	937.24	2,392.61	8,423.85	8,360.83	63.02	133.672			
13,800.00	6,881.61	7,059.95	7,056.81	199.72	30.24	114.50	937.28	2,392.59	8,523.82	8,460.73	63.09	135.104			
13,900.00	6,880.53	7,060.70	7,057.56	202.52	30.24	114.68	937.32	2,392.57	8,623.79	8,560.63	63.16	136.530			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Boomerang 21-5 - GREELEY TECH CENTER #41-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor	
14,000.00	6,879.45	7,061.45	7,058.30	205.32	30.24	114.86	937.36	2,392.55	8,723.76	8,660.52	63.24	137.951		
14,100.00	6,878.37	7,062.19	7,059.04	208.12	30.25	115.04	937.40	2,392.53	8,823.73	8,760.42	63.31	139.367		
14,200.00	6,877.29	7,062.92	7,059.78	210.92	30.25	115.21	937.44	2,392.52	8,923.71	8,860.32	63.39	140.778		
14,300.00	6,876.22	7,063.65	7,060.50	213.73	30.25	115.38	937.48	2,392.50	9,023.68	8,960.21	63.46	142.184		
14,400.00	6,875.14	7,064.37	7,061.22	216.53	30.26	115.56	937.52	2,392.48	9,123.65	9,060.11	63.54	143.584		
14,500.00	6,874.06	7,065.09	7,061.94	219.34	30.26	115.72	937.56	2,392.46	9,223.62	9,160.00	63.62	144.980		
14,600.00	6,872.98	7,065.80	7,062.65	222.15	30.26	115.89	937.60	2,392.45	9,323.60	9,259.90	63.70	146.370		
14,700.00	6,871.90	7,066.50	7,063.35	224.95	30.27	116.06	937.64	2,392.43	9,423.57	9,359.79	63.78	147.754		
14,800.00	6,870.82	7,067.20	7,064.05	227.76	30.27	116.22	937.68	2,392.41	9,523.55	9,459.69	63.86	149.134		
14,900.00	6,869.75	7,067.90	7,064.74	230.57	30.27	116.38	937.71	2,392.40	9,623.52	9,559.58	63.94	150.507		
15,000.00	6,868.67	7,068.58	7,065.43	233.38	30.27	116.54	937.75	2,392.38	9,723.50	9,659.47	64.02	151.876		
15,100.00	6,867.59	7,069.27	7,066.11	236.19	30.28	116.70	937.79	2,392.36	9,823.47	9,759.37	64.11	153.239		
15,200.00	6,866.51	7,069.95	7,066.79	239.00	30.28	116.86	937.83	2,392.35	9,923.45	9,859.26	64.19	154.597		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - KELLY # 1-3 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	94.84	-758.67	8,951.11	8,983.25						
100.00	100.00	72.00	72.00	3.28	3.51	94.84	-758.67	8,951.11	8,983.21	8,976.41	6.80	1,321.595			
200.00	200.00	172.00	172.00	3.34	5.38	94.84	-758.67	8,951.11	8,983.21	8,974.49	8.71	1,031.049			
300.00	299.98	271.98	271.98	3.44	8.41	42.98	-758.67	8,951.11	8,981.93	8,970.07	11.86	757.395			
400.00	399.84	371.84	371.84	3.61	11.70	43.05	-758.67	8,951.11	8,978.10	8,962.79	15.31	586.546			
500.00	499.45	471.45	471.45	3.81	15.07	43.18	-758.67	8,951.11	8,971.73	8,952.85	18.88	475.174			
600.00	598.70	570.70	570.70	4.06	18.47	43.35	-758.67	8,951.11	8,962.82	8,940.30	22.52	397.939			
700.00	697.47	669.47	669.47	4.35	21.87	43.58	-758.67	8,951.11	8,951.40	8,925.19	26.21	341.585			
800.00	795.62	767.62	767.62	4.66	25.27	43.86	-758.67	8,951.11	8,937.49	8,907.58	29.91	298.800			
900.00	893.06	865.06	865.06	5.01	28.64	44.19	-758.67	8,951.11	8,921.11	8,887.48	33.63	265.280			
961.44	952.51	924.51	924.51	5.25	30.70	44.42	-758.67	8,951.11	8,909.84	8,873.92	35.92	248.073			
1,000.00	989.71	961.71	961.71	5.40	32.00	44.46	-758.67	8,951.11	8,902.48	8,865.13	37.35	238.340			
1,100.00	1,086.20	1,058.20	1,058.20	5.81	35.35	44.58	-758.67	8,951.11	8,883.43	8,842.34	41.09	216.205			
1,200.00	1,182.69	1,154.69	1,154.69	6.24	38.70	44.69	-758.67	8,951.11	8,864.41	8,819.57	44.84	197.672			
1,300.00	1,279.18	1,251.18	1,251.18	6.69	42.06	44.81	-758.67	8,951.11	8,845.43	8,796.81	48.62	181.942			
1,400.00	1,375.67	1,347.67	1,347.67	7.15	45.42	44.93	-758.67	8,951.11	8,826.48	8,774.08	52.40	168.435			
1,500.00	1,472.15	1,444.15	1,444.15	7.62	48.78	45.05	-758.67	8,951.11	8,807.58	8,751.38	56.20	156.718			
1,600.00	1,568.64	1,540.64	1,540.64	8.10	52.14	45.17	-758.67	8,951.11	8,788.71	8,728.70	60.01	146.462			
1,700.00	1,665.13	1,637.13	1,637.13	8.59	55.50	45.29	-758.67	8,951.11	8,769.88	8,706.06	63.82	137.413			
1,800.00	1,761.62	1,733.62	1,733.62	9.08	58.87	45.41	-758.67	8,951.11	8,751.09	8,683.45	67.64	129.372			
1,900.00	1,858.11	1,830.11	1,830.11	9.58	62.23	45.53	-758.67	8,951.11	8,732.34	8,660.87	71.47	122.183			
2,000.00	1,954.60	1,926.60	1,926.60	10.08	65.59	45.65	-758.67	8,951.11	8,713.62	8,638.32	75.30	115.717			
2,100.00	2,051.09	2,023.09	2,023.09	10.59	68.96	45.77	-758.67	8,951.11	8,694.95	8,615.81	79.14	109.871			
2,200.00	2,147.57	2,119.57	2,119.57	11.09	72.32	45.89	-758.67	8,951.11	8,676.31	8,593.33	82.98	104.562			
2,300.00	2,244.06	2,216.06	2,216.06	11.61	75.69	46.02	-758.67	8,951.11	8,657.71	8,570.89	86.82	99.720			
2,400.00	2,340.55	2,312.55	2,312.55	12.12	79.05	46.14	-758.67	8,951.11	8,639.16	8,548.49	90.67	95.285			
2,500.00	2,437.04	2,409.04	2,409.04	12.64	82.42	46.26	-758.67	8,951.11	8,620.64	8,526.12	94.52	91.209			
2,600.00	2,533.53	2,505.53	2,505.53	13.15	85.79	46.39	-758.67	8,951.11	8,602.16	8,503.80	98.37	87.450			
2,700.00	2,630.02	2,602.02	2,602.02	13.67	89.15	46.51	-758.67	8,951.11	8,583.73	8,481.51	102.22	83.973			
2,800.00	2,726.50	2,701.50	2,698.50	14.19	92.62	46.64	-758.67	8,951.11	8,565.33	8,459.15	106.18	80.669			
2,900.00	2,822.99	2,805.01	2,794.99	14.72	96.23	46.76	-758.67	8,951.11	8,546.98	8,436.70	110.28	77.502			
3,000.00	2,919.48	2,908.52	2,891.48	15.24	99.84	46.89	-758.67	8,951.11	8,528.67	8,414.28	114.38	74.561			
3,100.00	3,015.97	2,987.97	2,987.97	15.76	102.62	47.01	-758.67	8,951.11	8,510.40	8,392.75	117.65	72.336			
3,200.00	3,112.46	3,084.46	3,084.46	16.29	105.98	47.14	-758.67	8,951.11	8,492.17	8,370.66	121.51	69.888			
3,300.00	3,208.95	3,180.95	3,180.95	16.81	109.35	47.27	-758.67	8,951.11	8,473.98	8,348.61	125.37	67.590			
3,400.00	3,305.44	3,277.44	3,277.44	17.34	112.72	47.40	-758.67	8,951.11	8,455.84	8,326.60	129.24	65.428			
3,500.00	3,401.92	3,373.92	3,373.92	17.87	116.08	47.53	-758.67	8,951.11	8,437.74	8,304.64	133.10	63.393			
3,600.00	3,498.41	3,470.41	3,470.41	18.40	119.45	47.66	-758.67	8,951.11	8,419.68	8,282.71	136.97	61.471			
3,700.00	3,594.90	3,566.90	3,566.90	18.93	122.82	47.79	-758.67	8,951.11	8,401.67	8,260.83	140.84	59.656			
3,800.00	3,691.39	3,663.39	3,663.39	19.46	126.19	47.92	-758.67	8,951.11	8,383.69	8,238.99	144.70	57.937			
3,900.00	3,787.88	3,759.88	3,759.88	19.99	129.55	48.05	-758.67	8,951.11	8,365.77	8,217.19	148.57	56.308			
4,000.00	3,884.37	3,856.37	3,856.37	20.52	132.92	48.18	-758.67	8,951.11	8,347.88	8,195.44	152.44	54.761			
4,100.00	3,980.85	3,952.85	3,952.85	21.05	136.29	48.31	-758.67	8,951.11	8,330.05	8,173.73	156.31	53.291			
4,200.00	4,077.34	4,049.34	4,049.34	21.58	139.66	48.44	-758.67	8,951.11	8,312.25	8,152.07	160.18	51.892			
4,300.00	4,173.83	4,145.83	4,145.83	22.11	143.02	48.58	-758.67	8,951.11	8,294.50	8,130.45	164.06	50.559			
4,390.25	4,260.91	4,232.91	4,232.91	22.59	146.06	48.70	-758.67	8,951.11	8,278.52	8,110.97	167.55	49.409			
4,400.00	4,270.32	4,242.32	4,242.32	22.64	146.39	48.68	-758.67	8,951.11	8,276.81	8,108.88	167.93	49.288			
4,500.00	4,367.33	4,339.33	4,339.33	23.16	149.78	48.56	-758.67	8,951.11	8,260.51	8,088.70	171.81	48.080			
4,600.00	4,465.13	4,437.13	4,437.13	23.65	153.19	48.46	-758.67	8,951.11	8,246.52	8,070.82	175.70	46.936			
4,700.00	4,563.60	4,535.60	4,535.60	24.12	156.63	48.37	-758.67	8,951.11	8,234.86	8,055.27	179.59	45.853			
4,800.00	4,662.61	4,634.61	4,634.61	24.56	160.08	48.30	-758.67	8,951.11	8,225.52	8,042.03	183.49	44.828			
4,900.00	4,762.05	4,734.05	4,734.05	24.98	163.55	48.25	-758.67	8,951.11	8,218.50	8,031.12	187.38	43.859			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - KELLY # 1-3 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2° Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,833.80	4,833.80	25.38	167.03	48.22	-758.67	8,951.11	8,213.81	8,022.54	191.27	42.944		
5,100.00	4,961.73	4,933.73	4,933.73	25.76	170.52	48.20	-758.67	8,951.11	8,211.44	8,016.29	195.15	42.078		
5,151.69	5,013.42	4,985.42	4,985.42	25.95	172.33	100.09	-758.67	8,951.11	8,211.13	8,013.99	197.14	41.651		
5,200.00	5,061.73	5,033.73	5,033.73	26.13	174.01	100.09	-758.67	8,951.11	8,211.13	8,012.12	199.01	41.260		
5,300.00	5,161.73	5,133.73	5,133.73	26.49	177.50	100.09	-758.67	8,951.11	8,211.13	8,008.26	202.87	40.475		
5,400.00	5,261.73	5,233.73	5,233.73	26.86	180.99	100.09	-758.67	8,951.11	8,211.13	8,004.40	206.73	39.719		
5,500.00	5,361.73	5,333.73	5,333.73	27.23	184.48	100.09	-758.67	8,951.11	8,211.13	8,000.53	210.60	38.990		
5,600.00	5,461.73	5,433.73	5,433.73	27.60	187.97	100.09	-758.67	8,951.11	8,211.13	7,996.67	214.46	38.287		
5,700.00	5,561.73	5,533.73	5,533.73	27.97	191.47	100.09	-758.67	8,951.11	8,211.13	7,992.80	218.33	37.608		
5,800.00	5,661.73	5,633.73	5,633.73	28.35	194.96	100.09	-758.67	8,951.11	8,211.13	7,988.93	222.20	36.953		
5,900.00	5,761.73	5,733.73	5,733.73	28.72	198.45	100.09	-758.67	8,951.11	8,211.13	7,985.05	226.07	36.320		
6,000.00	5,861.73	5,833.73	5,833.73	29.10	201.94	100.09	-758.67	8,951.11	8,211.13	7,981.18	229.95	35.708		
6,100.00	5,961.73	5,933.73	5,933.73	29.48	205.43	100.09	-758.67	8,951.11	8,211.13	7,977.30	233.82	35.117		
6,200.00	6,061.73	6,033.73	6,033.73	29.86	208.92	100.09	-758.67	8,951.11	8,211.13	7,973.43	237.70	34.544		
6,300.00	6,161.73	6,133.73	6,133.73	30.25	212.41	100.09	-758.67	8,951.11	8,211.13	7,969.55	241.58	33.989		
6,400.00	6,261.73	6,233.73	6,233.73	30.63	215.90	100.09	-758.67	8,951.11	8,211.13	7,965.67	245.46	33.452		
6,451.69	6,313.42	6,285.42	6,285.42	30.83	217.70	100.09	-758.67	8,951.11	8,211.13	7,963.66	247.47	33.181	CC	
6,500.00	6,361.68	6,333.68	6,333.68	31.01	219.39	-167.42	-758.67	8,951.11	8,212.92	7,963.59	249.33	32.940	ES	
6,550.00	6,411.34	6,383.34	6,383.34	31.20	221.12	-167.31	-758.67	8,951.11	8,218.52	7,967.28	251.24	32.712		
6,600.00	6,460.39	6,432.39	6,432.39	31.38	222.83	-167.14	-758.67	8,951.11	8,227.92	7,974.80	253.11	32.507		
6,650.00	6,508.54	6,480.54	6,480.54	31.58	224.51	-166.88	-758.67	8,951.11	8,241.04	7,986.09	254.95	32.324		
6,700.00	6,555.48	6,527.48	6,527.48	31.78	226.15	-166.54	-758.67	8,951.11	8,257.81	8,001.08	256.73	32.166		
6,750.00	6,600.93	6,572.93	6,572.93	31.98	227.74	-166.10	-758.67	8,951.11	8,278.12	8,019.68	258.44	32.031		
6,800.00	6,644.61	6,616.61	6,616.61	32.20	229.26	-165.55	-758.67	8,951.11	8,301.86	8,041.78	260.09	31.920		
6,850.00	6,686.25	6,658.25	6,658.25	32.44	230.72	-164.86	-758.67	8,951.11	8,328.88	8,067.23	261.65	31.833		
6,900.00	6,725.58	6,702.42	6,697.58	32.68	232.26	-164.00	-758.67	8,951.11	8,359.01	8,095.72	263.28	31.749		
6,950.00	6,762.38	6,734.38	6,734.38	32.96	233.38	-162.94	-758.67	8,951.11	8,392.07	8,127.58	264.48	31.730		
7,000.00	6,796.41	6,768.41	6,768.41	33.25	234.56	-161.61	-758.67	8,951.11	8,427.85	8,162.10	265.75	31.714	SF	
7,050.00	6,827.46	6,800.54	6,799.46	33.58	235.68	-159.92	-758.67	8,951.11	8,466.14	8,199.20	266.93	31.716		
7,100.00	6,855.34	6,827.34	6,827.34	33.93	236.62	-157.76	-758.67	8,951.11	8,506.70	8,238.77	267.93	31.750		
7,150.00	6,879.88	6,851.88	6,851.88	34.33	237.48	-154.94	-758.67	8,951.11	8,549.28	8,280.45	268.84	31.801		
7,200.00	6,900.93	6,872.93	6,872.93	34.76	238.21	-151.14	-758.67	8,951.11	8,593.63	8,324.01	269.62	31.874		
7,250.00	6,918.36	6,909.64	6,890.36	35.23	239.49	-145.88	-758.67	8,951.11	8,639.47	8,368.53	270.94	31.887		
7,300.00	6,932.05	6,904.05	6,904.05	35.74	239.30	-138.36	-758.67	8,951.11	8,686.51	8,415.73	270.78	32.079		
7,350.00	6,941.94	6,913.94	6,913.94	36.29	239.64	-127.31	-758.67	8,951.11	8,734.47	8,463.31	271.16	32.211		
7,400.00	6,947.94	6,919.94	6,919.94	36.87	239.85	-111.35	-758.67	8,951.11	8,783.06	8,511.65	271.41	32.361		
7,450.00	6,950.04	6,922.04	6,922.04	37.47	239.93	-90.74	-758.67	8,951.11	8,831.96	8,560.44	271.52	32.528		
7,458.56	6,950.00	6,922.00	6,922.00	37.58	239.92	-87.00	-758.67	8,951.11	8,840.34	8,568.82	271.52	32.558		
7,500.00	6,949.56	6,921.56	6,921.56	38.11	239.91	-86.99	-758.67	8,951.11	8,880.93	8,609.39	271.54	32.706		
7,600.00	6,948.48	6,920.48	6,920.48	39.51	239.87	-86.96	-758.67	8,951.11	8,978.91	8,707.32	271.59	33.061		
7,700.00	6,947.40	6,919.40	6,919.40	41.06	239.83	-86.92	-758.67	8,951.11	9,076.93	8,805.29	271.64	33.415		
7,800.00	6,946.32	6,918.32	6,918.32	42.74	239.80	-86.89	-758.67	8,951.11	9,175.00	8,903.29	271.71	33.768		
7,900.00	6,945.24	6,917.24	6,917.24	44.55	239.76	-86.85	-758.67	8,951.11	9,273.10	9,001.33	271.77	34.121		
8,000.00	6,944.16	6,916.16	6,916.16	46.46	239.72	-86.82	-758.67	8,951.11	9,371.25	9,099.40	271.85	34.472		
8,100.00	6,943.08	6,915.08	6,915.08	48.47	239.68	-86.78	-758.67	8,951.11	9,469.43	9,197.51	271.93	34.823		
8,200.00	6,942.01	6,914.01	6,914.01	50.55	239.65	-86.75	-758.67	8,951.11	9,567.65	9,295.64	272.01	35.174		
8,300.00	6,940.93	6,912.93	6,912.93	52.71	239.61	-86.71	-758.67	8,951.11	9,665.91	9,393.81	272.10	35.523		
8,400.00	6,939.85	6,911.85	6,911.85	54.93	239.57	-86.68	-758.67	8,951.11	9,764.21	9,492.01	272.20	35.872		
8,500.00	6,938.77	6,910.77	6,910.77	57.20	239.53	-86.64	-758.67	8,951.11	9,862.53	9,590.24	272.29	36.220		
8,600.00	6,937.69	6,909.69	6,909.69	59.53	239.49	-86.61	-758.67	8,951.11	9,960.89	9,688.50	272.40	36.568		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - KELLY #2-3 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2° Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,000.00	1,954.60	1,910.60	1,910.60	10.08	65.04	36.50	680.83	10,267.26	9,983.62	9,908.96	74.65	133.734		
2,100.00	2,051.09	2,007.09	2,007.09	10.59	68.40	36.58	680.83	10,267.26	9,962.25	9,883.77	78.48	126.942		
2,200.00	2,147.57	2,103.57	2,103.57	11.09	71.77	36.67	680.83	10,267.26	9,940.90	9,858.60	82.31	120.776		
2,300.00	2,244.06	2,200.06	2,200.06	11.61	75.13	36.76	680.83	10,267.26	9,919.58	9,833.44	86.14	115.154		
2,400.00	2,340.55	2,303.45	2,296.55	12.12	78.74	36.85	680.83	10,267.26	9,898.29	9,808.07	90.22	109.715		
2,500.00	2,437.04	2,406.96	2,393.04	12.64	82.35	36.94	680.83	10,267.26	9,877.02	9,782.71	94.30	104.738		
2,600.00	2,533.53	2,489.53	2,489.53	13.15	85.23	37.03	680.83	10,267.26	9,855.77	9,758.11	97.66	100.922		
2,700.00	2,630.02	2,586.02	2,586.02	13.67	88.59	37.12	680.83	10,267.26	9,834.54	9,733.04	101.50	96.892		
2,800.00	2,726.50	2,682.50	2,682.50	14.19	91.96	37.22	680.83	10,267.26	9,813.34	9,708.00	105.34	93.155		
2,900.00	2,822.99	2,778.99	2,778.99	14.72	95.33	37.31	680.83	10,267.26	9,792.17	9,682.98	109.19	89.680		
3,000.00	2,919.48	2,875.48	2,875.48	15.24	98.69	37.40	680.83	10,267.26	9,771.02	9,657.98	113.04	86.440		
3,100.00	3,015.97	2,971.97	2,971.97	15.76	102.06	37.49	680.83	10,267.26	9,749.89	9,633.01	116.89	83.413		
3,200.00	3,112.46	3,068.46	3,068.46	16.29	105.43	37.59	680.83	10,267.26	9,728.79	9,608.06	120.74	80.578		
3,300.00	3,208.95	3,164.95	3,164.95	16.81	108.79	37.68	680.83	10,267.26	9,707.72	9,583.13	124.59	77.918		
3,400.00	3,305.44	3,261.44	3,261.44	17.34	112.16	37.77	680.83	10,267.26	9,686.67	9,558.23	128.44	75.416		
3,500.00	3,401.92	3,357.92	3,357.92	17.87	115.53	37.87	680.83	10,267.26	9,665.64	9,533.35	132.30	73.061		
3,600.00	3,498.41	3,454.41	3,454.41	18.40	118.89	37.96	680.83	10,267.26	9,644.65	9,508.49	136.15	70.838		
3,700.00	3,594.90	3,550.90	3,550.90	18.93	122.26	38.06	680.83	10,267.26	9,623.67	9,483.67	140.01	68.737		
3,800.00	3,691.39	3,647.39	3,647.39	19.46	125.63	38.15	680.83	10,267.26	9,602.73	9,458.86	143.86	66.749		
3,900.00	3,787.88	3,743.88	3,743.88	19.99	129.00	38.25	680.83	10,267.26	9,581.81	9,434.09	147.72	64.865		
4,000.00	3,884.37	3,840.37	3,840.37	20.52	132.36	38.34	680.83	10,267.26	9,560.91	9,409.33	151.58	63.076		
4,100.00	3,980.85	3,936.85	3,936.85	21.05	135.73	38.44	680.83	10,267.26	9,540.04	9,384.61	155.44	61.376		
4,200.00	4,077.34	4,033.34	4,033.34	21.58	139.10	38.54	680.83	10,267.26	9,519.20	9,359.91	159.30	59.758		
4,300.00	4,173.83	4,129.83	4,129.83	22.11	142.46	38.63	680.83	10,267.26	9,498.39	9,335.23	163.16	58.217		
4,390.25	4,269.91	4,216.91	4,216.91	22.59	145.50	38.72	680.83	10,267.26	9,479.63	9,312.99	166.64	56.887		
4,400.00	4,270.32	4,226.32	4,226.32	22.64	145.83	38.71	680.83	10,267.26	9,477.62	9,310.60	167.02	56.747		
4,500.00	4,367.33	4,323.33	4,323.33	23.16	149.22	38.55	680.83	10,267.26	9,458.45	9,287.57	170.89	55.349		
4,600.00	4,465.13	4,421.13	4,421.13	23.65	152.63	38.42	680.83	10,267.26	9,441.99	9,267.22	174.77	54.026		
4,700.00	4,563.60	4,519.60	4,519.60	24.12	156.07	38.32	680.83	10,267.26	9,428.25	9,249.59	178.66	52.772		
4,800.00	4,662.61	4,618.61	4,618.61	24.56	159.52	38.23	680.83	10,267.26	9,417.24	9,234.69	182.55	51.586		
4,900.00	4,762.05	4,718.05	4,718.05	24.98	163.00	38.17	680.83	10,267.26	9,408.96	9,222.51	186.45	50.465		
5,000.00	4,861.80	4,817.80	4,817.80	25.38	166.48	38.13	680.83	10,267.26	9,403.42	9,213.09	190.34	49.404		
5,100.00	4,961.73	4,917.73	4,917.73	25.76	169.96	38.11	680.83	10,267.26	9,400.63	9,206.41	194.22	48.403		
5,151.69	5,013.42	4,969.42	4,969.42	25.95	171.77	89.99	680.83	10,267.26	9,400.26	9,204.05	196.22	47.908		
5,200.00	5,061.73	5,017.73	5,017.73	26.13	173.45	89.99	680.83	10,267.26	9,400.26	9,202.18	198.08	47.456		
5,300.00	5,161.73	5,117.73	5,117.73	26.49	176.95	89.99	680.83	10,267.26	9,400.26	9,198.32	201.95	46.548		
5,400.00	5,261.73	5,217.73	5,217.73	26.86	180.44	89.99	680.83	10,267.26	9,400.26	9,194.45	205.81	45.674		
5,500.00	5,361.73	5,317.73	5,317.73	27.23	183.93	89.99	680.83	10,267.26	9,400.26	9,190.58	209.68	44.831		
5,600.00	5,461.73	5,417.73	5,417.73	27.60	187.42	89.99	680.83	10,267.26	9,400.26	9,186.71	213.55	44.019		
5,700.00	5,561.73	5,517.73	5,517.73	27.97	190.91	89.99	680.83	10,267.26	9,400.26	9,182.84	217.42	43.235		
5,800.00	5,661.73	5,617.73	5,617.73	28.35	194.40	89.99	680.83	10,267.26	9,400.26	9,178.97	221.30	42.478		
5,900.00	5,761.73	5,717.73	5,717.73	28.72	197.89	89.99	680.83	10,267.26	9,400.26	9,175.09	225.17	41.747		
6,000.00	5,861.73	5,817.73	5,817.73	29.10	201.38	89.99	680.83	10,267.26	9,400.26	9,171.21	229.05	41.040		
6,100.00	5,961.73	5,917.73	5,917.73	29.48	204.87	89.99	680.83	10,267.26	9,400.26	9,167.33	232.93	40.357		
6,200.00	6,061.73	6,017.73	6,017.73	29.86	208.36	89.99	680.83	10,267.26	9,400.26	9,163.45	236.81	39.695		
6,300.00	6,161.73	6,117.73	6,117.73	30.25	211.85	89.99	680.83	10,267.26	9,400.26	9,159.57	240.69	39.055		
6,400.00	6,261.73	6,217.73	6,217.73	30.63	215.34	89.99	680.83	10,267.26	9,400.26	9,155.69	244.57	38.435		
6,451.69	6,313.42	6,269.42	6,269.42	30.83	217.15	89.99	680.83	10,267.26	9,400.26	9,153.68	246.58	38.122 CC		
6,500.00	6,361.68	6,317.68	6,317.68	31.01	218.83	-177.54	680.83	10,267.26	9,402.09	9,153.65	248.45	37.843 ES		
6,550.00	6,411.34	6,367.34	6,367.34	31.20	220.56	-177.52	680.83	10,267.26	9,407.83	9,157.48	250.35	37.578		
6,600.00	6,460.39	6,416.39	6,416.39	31.38	222.28	-177.48	680.83	10,267.26	9,417.44	9,165.22	252.22	37.338		
6,650.00	6,508.54	6,464.54	6,464.54	31.58	223.96	-177.43	680.83	10,267.26	9,430.87	9,176.82	254.05	37.122		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - KELLY #2-3 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2" Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
6,700.00	6,555.48	6,511.48	6,511.48	31.78	225.59	-177.36	680.83	10,267.26	9,448.03	9,192.21	255.82	36.932		
6,750.00	6,600.93	6,556.93	6,556.93	31.98	227.18	-177.27	680.83	10,267.26	9,468.82	9,211.30	257.53	36.768		
6,800.00	6,644.61	6,600.61	6,600.61	32.20	228.71	-177.15	680.83	10,267.26	9,493.11	9,233.95	259.16	36.631		
6,850.00	6,686.25	6,642.25	6,642.25	32.44	230.16	-177.01	680.83	10,267.26	9,520.75	9,260.05	260.70	36.520		
6,900.00	6,725.58	6,681.58	6,681.58	32.68	231.53	-176.83	680.83	10,267.26	9,551.56	9,289.41	262.15	36.436		
6,950.00	6,762.38	6,718.38	6,718.38	32.96	232.82	-176.61	680.83	10,267.26	9,585.36	9,321.87	263.49	36.378		
7,000.00	6,796.41	6,752.41	6,752.41	33.25	234.00	-176.32	680.83	10,267.26	9,621.95	9,357.22	264.73	36.346		
7,050.00	6,827.46	6,783.46	6,783.46	33.58	235.09	-175.96	680.83	10,267.26	9,661.09	9,395.23	265.85	36.340 SF		
7,100.00	6,855.34	6,811.34	6,811.34	33.93	236.06	-175.47	680.83	10,267.26	9,702.54	9,435.68	266.86	36.359		
7,150.00	6,879.88	6,835.88	6,835.88	34.33	236.92	-174.82	680.83	10,267.26	9,746.05	9,478.32	267.73	36.402		
7,200.00	6,900.93	6,856.93	6,856.93	34.76	237.65	-173.90	680.83	10,267.26	9,791.35	9,522.87	268.48	36.470		
7,250.00	6,918.36	6,874.36	6,874.36	35.23	238.26	-172.51	680.83	10,267.26	9,838.16	9,569.07	269.09	36.560		
7,300.00	6,932.05	6,888.05	6,888.05	35.74	238.74	-170.20	680.83	10,267.26	9,886.20	9,616.62	269.57	36.673		
7,350.00	6,941.94	6,902.07	6,897.94	36.29	239.23	-165.69	680.83	10,267.26	9,935.16	9,665.09	270.06	36.788		
7,400.00	6,947.94	6,903.94	6,903.94	36.87	239.29	-153.55	680.83	10,267.26	9,984.74	9,714.61	270.13	36.963		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Kelly Farms #12-4-3CHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 169-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	97.25	-671.93	5,282.01	5,324.63					
100.00	100.00	95.71	95.71	3.28	3.29	97.25	-672.13	5,281.82	5,324.44	5,317.87	6.57	810.233		
200.00	200.00	231.39	231.38	3.34	3.34	97.26	-672.78	5,280.74	5,323.71	5,317.03	6.68	796.910		
300.00	299.98	314.30	314.28	3.44	3.43	45.41	-673.18	5,280.00	5,321.64	5,314.77	6.88	773.959		
400.00	399.84	445.11	445.09	3.61	3.64	45.54	-673.79	5,278.82	5,317.18	5,309.94	7.25	733.873		
500.00	499.45	560.01	559.97	3.81	3.89	45.73	-673.99	5,277.12	5,309.63	5,301.94	7.70	689.988		
600.00	598.70	626.74	626.70	4.06	4.05	45.94	-674.28	5,276.28	5,299.90	5,291.79	8.10	654.051		
700.00	697.47	710.99	710.95	4.35	4.28	46.22	-674.90	5,275.52	5,288.17	5,279.56	8.61	614.138		
800.00	795.62	791.04	790.99	4.66	4.51	46.55	-675.36	5,275.02	5,274.35	5,265.19	9.16	576.041		
900.00	893.06	885.79	885.74	5.01	4.80	46.95	-674.95	5,274.85	5,258.47	5,248.69	9.79	537.342		
961.44	952.51	942.97	942.91	5.25	4.98	47.22	-673.56	5,274.85	5,247.53	5,237.34	10.19	515.038		
1,000.00	989.71	971.48	971.39	5.40	5.07	47.27	-672.47	5,274.96	5,240.46	5,230.04	10.42	502.808		
1,100.00	1,086.20	1,095.16	1,094.84	5.81	5.47	47.45	-665.12	5,275.87	5,222.26	5,211.05	11.21	465.859		
1,200.00	1,182.69	1,521.96	1,519.56	6.24	7.07	47.97	-626.20	5,265.53	5,200.72	5,187.54	13.18	394.700		
1,300.00	1,279.18	1,633.23	1,630.43	6.69	7.51	48.16	-619.83	5,258.73	5,175.99	5,161.97	14.02	369.083		
1,400.00	1,375.67	1,696.25	1,693.19	7.15	7.77	48.27	-615.86	5,254.73	5,151.08	5,136.37	14.70	350.357		
1,500.00	1,472.15	1,753.00	1,749.81	7.62	8.00	48.37	-613.27	5,251.74	5,127.23	5,111.86	15.37	333.579		
1,600.00	1,568.64	1,786.54	1,783.29	8.10	8.14	48.43	-611.91	5,250.27	5,104.30	5,088.34	15.96	319.811		
1,700.00	1,665.13	1,845.00	1,841.63	8.59	8.38	48.53	-608.85	5,248.28	5,082.31	5,065.66	16.66	305.136		
1,800.00	1,761.62	1,944.05	1,940.50	9.08	8.79	48.71	-603.58	5,245.25	5,060.75	5,043.23	17.52	288.883		
1,900.00	1,858.11	2,010.84	2,007.19	9.58	9.07	48.83	-600.74	5,243.24	5,039.41	5,021.15	18.26	275.949		
2,000.00	1,954.60	2,119.53	2,115.77	10.08	9.52	49.05	-596.95	5,240.07	5,018.36	4,999.19	19.17	261.731		
2,100.00	2,051.09	2,168.19	2,164.40	10.59	9.72	49.15	-595.66	5,238.70	4,997.60	4,977.74	19.86	251.657		
2,200.00	2,147.57	2,217.83	2,214.02	11.09	9.92	49.26	-594.96	5,237.70	4,977.83	4,957.28	20.55	242.204		
2,300.00	2,244.06	2,295.80	2,291.98	11.61	10.24	49.43	-593.92	5,236.60	4,958.75	4,937.39	21.36	232.172		
2,400.00	2,340.55	2,427.68	2,423.83	12.12	10.79	49.72	-591.67	5,234.73	4,939.69	4,917.31	22.38	220.749		
2,500.00	2,437.04	2,550.35	2,546.44	12.64	11.31	49.99	-589.17	5,231.97	4,919.78	4,896.41	23.37	210.559		
2,600.00	2,533.53	2,611.66	2,607.72	13.15	11.56	50.13	-588.45	5,230.55	4,900.11	4,875.99	24.12	203.167		
2,700.00	2,630.02	2,674.00	2,670.05	13.67	11.81	50.29	-588.87	5,229.66	4,881.53	4,856.66	24.88	196.241		
2,800.00	2,726.50	2,674.00	2,670.05	14.19	11.81	50.29	-588.87	5,229.66	4,864.09	4,838.69	25.40	191.518		
2,900.00	2,822.99	2,730.60	2,726.65	14.72	12.03	50.43	-589.65	5,229.79	4,847.74	4,821.61	26.13	185.549		
3,000.00	2,919.48	2,766.00	2,762.04	15.24	12.17	50.52	-589.94	5,230.50	4,832.84	4,806.06	26.78	180.483		
3,100.00	3,015.97	2,888.00	2,884.00	15.76	12.64	50.82	-590.61	5,233.47	4,818.34	4,790.59	27.75	173.634		
3,200.00	3,112.46	3,008.62	3,004.59	16.29	13.12	51.12	-591.51	5,235.90	4,803.61	4,774.89	28.72	167.247		
3,300.00	3,208.95	3,141.69	3,137.65	16.81	13.64	51.46	-592.54	5,237.51	4,788.18	4,758.43	29.74	160.984		
3,400.00	3,305.44	3,238.07	3,234.02	17.34	14.02	51.71	-593.47	5,238.38	4,772.59	4,741.95	30.63	155.794		
3,500.00	3,401.92	3,344.38	3,340.32	17.87	14.45	51.98	-593.83	5,239.19	4,756.82	4,725.26	31.57	150.693		
3,600.00	3,498.41	3,434.85	3,430.79	18.40	14.82	52.19	-593.16	5,240.20	4,741.25	4,708.80	32.45	146.125		
3,700.00	3,594.90	3,700.00	3,557.85	18.93	15.93	52.48	-590.37	5,241.59	4,725.38	4,691.33	34.05	138.758		
3,800.00	3,691.39	3,688.31	3,684.17	19.46	15.89	52.77	-587.51	5,242.05	4,708.86	4,674.36	34.50	136.481		
3,900.00	3,787.88	3,821.07	3,816.93	19.99	16.44	53.11	-587.02	5,241.11	4,691.88	4,656.33	35.55	131.972		
4,000.00	3,884.37	3,873.57	3,869.43	20.52	16.66	53.25	-587.08	5,240.61	4,675.00	4,638.69	36.30	128.775		
4,100.00	3,980.85	3,933.00	3,928.85	21.05	16.91	53.42	-587.92	5,240.93	4,659.56	4,622.48	37.08	125.667		
4,200.00	4,077.34	3,969.80	3,965.64	21.58	17.06	53.52	-588.74	5,241.45	4,645.08	4,607.32	37.77	122.999		
4,300.00	4,173.83	4,057.43	4,053.23	22.11	17.41	53.77	-590.67	5,242.70	4,631.12	4,592.48	38.64	119.852		
4,390.25	4,260.91	4,125.25	4,121.02	22.59	17.69	53.96	-592.04	5,243.95	4,618.94	4,579.55	39.39	117.263		
4,400.00	4,270.32	4,132.44	4,128.21	22.64	17.72	53.96	-592.17	5,244.11	4,617.66	4,578.19	39.47	116.992		
4,500.00	4,367.33	4,353.24	4,348.97	23.16	18.63	54.31	-594.24	5,246.78	4,604.81	4,563.97	40.84	112.759		
4,600.00	4,465.13	4,476.18	4,471.90	23.65	19.14	54.37	-594.65	5,246.26	4,592.17	4,550.35	41.82	109.800		
4,700.00	4,563.60	4,581.82	4,577.55	24.12	19.59	54.38	-594.74	5,245.52	4,581.27	4,538.54	42.73	107.214		
4,800.00	4,662.61	4,711.10	4,706.82	24.56	20.14	54.41	-594.25	5,244.08	4,571.89	4,528.19	43.70	104.612		
4,900.00	4,762.05	4,785.40	4,781.11	24.98	20.45	54.37	-594.03	5,243.11	4,564.44	4,519.98	44.46	102.664		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 169-MWD													Boomerang 21-5 - Kelly Farms #12-4-3CHZ - OH - OH		Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
5,000.00	4,861.80	4,859.99	4,855.70	25.38	20.77	54.35	-594.12	5,242.67	4,559.78	4,514.58	45.20	100.884				
5,100.00	4,961.73	4,957.56	4,953.27	25.76	21.18	54.35	-594.24	5,242.30	4,557.37	4,511.37	46.00	99.072				
5,151.69	5,013.42	5,008.95	5,004.65	25.95	21.40	106.24	-594.44	5,242.07	4,556.93	4,510.52	46.41	98.186				
5,200.00	5,061.73	5,056.23	5,051.94	26.13	21.60	106.24	-594.69	5,241.85	4,556.79	4,510.00	46.79	97.390				
5,300.00	5,161.73	5,176.65	5,172.35	26.49	22.11	106.26	-595.48	5,241.07	4,556.37	4,508.71	47.66	95.611				
5,400.00	5,261.73	5,269.52	5,265.21	26.86	22.50	106.27	-596.55	5,240.10	4,555.69	4,507.26	48.42	94.079				
5,500.00	5,361.73	5,374.59	5,370.26	27.23	22.94	106.30	-598.09	5,238.99	4,555.08	4,505.84	49.24	92.509				
5,600.00	5,461.73	5,496.65	5,492.31	27.60	23.46	106.29	-597.56	5,237.91	4,554.11	4,503.99	50.12	90.867				
5,700.00	5,561.73	5,590.28	5,585.93	27.97	23.86	106.31	-598.42	5,236.50	4,552.92	4,502.02	50.90	89.451				
5,800.00	5,661.73	5,657.86	5,653.48	28.35	24.15	106.33	-600.20	5,235.42	4,552.17	4,500.58	51.58	88.247				
5,833.40	5,695.13	5,676.52	5,672.13	28.47	24.22	106.34	-600.64	5,235.26	4,552.11	4,500.32	51.80	87.881	CC			
5,900.00	5,761.73	5,717.00	5,712.60	28.72	24.39	106.35	-601.40	5,235.19	4,552.33	4,500.10	52.24	87.149				
6,000.00	5,861.73	5,828.20	5,823.78	29.10	24.86	106.37	-603.37	5,235.16	4,552.82	4,499.73	53.08	85.771				
6,100.00	5,961.73	5,922.44	5,918.00	29.48	25.26	106.40	-605.38	5,234.91	4,553.16	4,499.29	53.87	84.529				
6,200.00	6,061.73	6,029.01	6,024.57	29.86	25.70	106.39	-605.31	5,235.58	4,553.76	4,499.06	54.69	83.258				
6,299.08	6,160.80	6,142.26	6,137.80	30.24	26.18	106.41	-606.19	5,235.30	4,553.71	4,498.16	55.55	81.975				
6,300.00	6,161.73	6,143.09	6,138.64	30.25	26.19	106.41	-606.21	5,235.29	4,553.71	4,498.16	55.56	81.964				
6,400.00	6,261.73	6,248.13	6,243.67	30.63	26.63	106.42	-607.36	5,234.93	4,553.70	4,497.31	56.39	80.757				
6,415.01	6,276.74	6,264.57	6,260.11	30.69	26.70	106.42	-607.28	5,234.93	4,553.68	4,497.16	56.51	80.575	ES			
6,451.69	6,313.42	6,253.00	6,248.54	30.83	26.65	106.42	-607.34	5,234.93	4,553.88	4,497.25	56.63	80.410				
6,500.00	6,361.68	6,290.16	6,285.70	31.01	26.81	-161.06	-607.22	5,235.17	4,555.92	4,498.95	56.97	79.966				
6,550.00	6,411.34	6,309.43	6,304.97	31.20	26.89	-160.89	-607.17	5,235.49	4,562.10	4,504.86	57.24	79.702				
6,600.00	6,460.39	6,342.00	6,337.53	31.38	27.02	-160.61	-607.10	5,236.32	4,572.32	4,514.77	57.55	79.454	SF			
6,650.00	6,508.54	6,342.00	6,337.53	31.58	27.02	-160.17	-607.10	5,236.32	4,586.34	4,528.63	57.71	79.469				
6,700.00	6,555.48	6,342.00	6,337.53	31.78	27.02	-159.57	-607.10	5,236.32	4,604.35	4,546.49	57.86	79.575				
6,750.00	6,600.93	6,342.00	6,337.53	31.98	27.02	-158.80	-607.10	5,236.32	4,626.18	4,568.19	57.99	79.769				
6,800.00	6,644.61	6,382.38	6,377.86	32.20	27.19	-157.94	-606.74	5,238.14	4,651.03	4,592.74	58.29	79.795				
6,850.00	6,686.25	6,393.30	6,388.75	32.44	27.24	-156.78	-606.55	5,238.83	4,679.54	4,621.10	58.44	80.072				
6,900.00	6,725.58	6,431.00	6,426.33	32.68	27.39	-155.47	-605.58	5,241.82	4,711.48	4,652.78	58.70	80.260				
6,950.00	6,762.38	6,431.00	6,426.33	32.96	27.39	-153.64	-605.58	5,241.82	4,745.86	4,687.07	58.79	80.727				
7,000.00	6,796.41	6,431.00	6,426.33	33.25	27.39	-151.33	-605.58	5,241.82	4,782.95	4,724.08	58.86	81.254				
7,050.00	6,827.46	6,431.00	6,426.33	33.58	27.39	-148.42	-605.58	5,241.82	4,822.46	4,763.53	58.93	81.832				
7,100.00	6,855.34	6,431.00	6,426.33	33.93	27.39	-144.68	-605.58	5,241.82	4,864.10	4,805.11	58.99	82.454				
7,150.00	6,879.88	6,431.00	6,426.33	34.33	27.39	-139.84	-605.58	5,241.82	4,907.56	4,848.51	59.05	83.112				
7,200.00	6,900.93	6,431.00	6,426.33	34.76	27.39	-133.48	-605.58	5,241.82	4,952.52	4,893.42	59.10	83.797				
7,250.00	6,918.36	6,431.00	6,426.33	35.23	27.39	-125.12	-605.58	5,241.82	4,998.68	4,939.52	59.15	84.502				
7,300.00	6,932.05	6,431.00	6,426.33	35.74	27.39	-114.29	-605.58	5,241.82	5,045.71	4,986.50	59.21	85.219				
7,350.00	6,941.94	6,431.00	6,426.33	36.29	27.39	-100.97	-605.58	5,241.82	5,093.31	5,034.05	59.27	85.940				
7,400.00	6,947.94	6,431.00	6,426.33	36.87	27.39	-86.13	-605.58	5,241.82	5,141.18	5,081.85	59.33	86.657				
7,450.00	6,950.04	6,431.00	6,426.33	37.47	27.39	-71.68	-605.58	5,241.82	5,189.01	5,129.61	59.39	87.365				
7,458.56	6,950.00	6,431.00	6,426.33	37.58	27.39	-69.37	-605.58	5,241.82	5,197.17	5,137.76	59.41	87.485				
7,500.00	6,949.56	6,431.00	6,426.33	38.11	27.39	-69.37	-605.58	5,241.82	5,236.68	5,177.22	59.47	88.060				
7,600.00	6,948.48	6,431.00	6,426.33	39.51	27.39	-69.37	-605.58	5,241.82	5,332.15	5,272.53	59.62	89.432				
7,700.00	6,947.40	6,431.00	6,426.33	41.06	27.39	-69.37	-605.58	5,241.82	5,427.78	5,367.99	59.79	90.786				
7,800.00	6,946.32	6,431.00	6,426.33	42.74	27.39	-69.37	-605.58	5,241.82	5,523.56	5,463.61	59.96	92.123				
7,900.00	6,945.24	6,431.00	6,426.33	44.55	27.39	-69.37	-605.58	5,241.82	5,619.50	5,559.36	60.14	93.445				
8,000.00	6,944.16	6,431.00	6,426.33	46.46	27.39	-69.37	-605.58	5,241.82	5,715.57	5,655.25	60.32	94.752				
8,100.00	6,943.08	6,431.00	6,426.33	48.47	27.39	-69.37	-605.58	5,241.82	5,811.77	5,751.26	60.51	96.046				
8,200.00	6,942.01	6,431.00	6,426.33	50.55	27.39	-69.37	-605.58	5,241.82	5,908.10	5,847.40	60.70	97.327				
8,300.00	6,940.93	6,431.00	6,426.33	52.71	27.39	-69.37	-605.58	5,241.82	6,004.55	5,943.65	60.90	98.598				
8,400.00	6,939.85	6,431.00	6,426.33	54.93	27.39	-69.37	-605.58	5,241.82	6,101.11	6,040.02	61.10	99.858				
8,500.00	6,938.77	6,431.00	6,426.33	57.20	27.39	-69.37	-605.58	5,241.82	6,197.79	6,136.49	61.30	101.109				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 169-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,600.00	6,937.69	6,431.00	6,426.33	59.53	27.39	-69.37	-605.58	5,241.82	6,294.56	6,233.06	61.50	102.351		
8,700.00	6,936.61	6,431.00	6,426.33	61.89	27.39	-69.37	-605.58	5,241.82	6,391.44	6,329.74	61.70	103.584		
8,800.00	6,935.54	6,431.00	6,426.33	64.30	27.39	-69.37	-605.58	5,241.82	6,488.41	6,426.50	61.91	104.810		
8,900.00	6,934.46	6,431.00	6,426.33	66.74	27.39	-69.37	-605.58	5,241.82	6,585.47	6,523.36	62.11	106.029		
9,000.00	6,933.38	6,431.00	6,426.33	69.21	27.39	-69.37	-605.58	5,241.82	6,682.62	6,620.31	62.31	107.242		
9,100.00	6,932.30	6,431.00	6,426.33	71.71	27.39	-69.37	-605.58	5,241.82	6,779.85	6,717.33	62.52	108.448		
9,200.00	6,931.22	6,431.00	6,426.33	74.23	27.39	-69.37	-605.58	5,241.82	6,877.16	6,814.44	62.72	109.649		
9,300.00	6,930.14	6,431.00	6,426.33	76.78	27.39	-69.37	-605.58	5,241.82	6,974.55	6,911.63	62.92	110.844		
9,400.00	6,929.06	6,431.00	6,426.33	79.34	27.39	-69.37	-605.58	5,241.82	7,072.01	7,008.88	63.12	112.035		
9,500.00	6,927.99	6,431.00	6,426.33	81.93	27.39	-69.37	-605.58	5,241.82	7,169.54	7,106.21	63.32	113.220		
9,600.00	6,926.91	6,431.00	6,426.33	84.53	27.39	-69.37	-605.58	5,241.82	7,267.13	7,203.61	63.52	114.402		
9,700.00	6,925.83	6,431.00	6,426.33	87.14	27.39	-69.37	-605.58	5,241.82	7,364.79	7,301.07	63.72	115.579		
9,800.00	6,924.75	6,431.00	6,426.33	89.77	27.39	-69.37	-605.58	5,241.82	7,462.52	7,398.60	63.92	116.752		
9,900.00	6,923.67	6,431.00	6,426.33	92.41	27.39	-69.37	-605.58	5,241.82	7,560.30	7,496.19	64.11	117.922		
10,000.00	6,922.59	6,431.00	6,426.33	95.07	27.39	-69.37	-605.58	5,241.82	7,658.14	7,593.83	64.31	119.088		
10,100.00	6,921.51	6,431.00	6,426.33	97.73	27.39	-69.37	-605.58	5,241.82	7,756.03	7,691.54	64.50	120.250		
10,200.00	6,920.44	6,431.00	6,426.33	100.40	27.39	-69.37	-605.58	5,241.82	7,853.98	7,789.29	64.69	121.409		
10,300.00	6,919.36	6,394.36	6,389.82	103.08	27.24	-68.15	-606.53	5,238.90	7,951.47	7,886.72	64.75	122.798		
10,400.00	6,918.28	6,393.07	6,388.52	105.77	27.24	-68.11	-606.55	5,238.81	8,049.49	7,984.55	64.94	123.959		
10,500.00	6,917.20	6,391.80	6,387.26	108.47	27.23	-68.07	-606.58	5,238.73	8,147.55	8,082.43	65.12	125.117		
10,600.00	6,916.12	6,390.57	6,386.03	111.18	27.22	-68.03	-606.60	5,238.65	8,245.65	8,180.35	65.30	126.271		
10,700.00	6,915.04	6,389.36	6,384.82	113.89	27.22	-67.99	-606.62	5,238.57	8,343.80	8,278.32	65.48	127.423		
10,800.00	6,913.96	6,388.17	6,383.64	116.61	27.21	-67.95	-606.64	5,238.50	8,441.99	8,376.33	65.66	128.572		
10,900.00	6,912.89	6,387.02	6,382.49	119.33	27.21	-67.91	-606.66	5,238.42	8,540.22	8,474.39	65.84	129.718		
11,000.00	6,911.81	6,385.88	6,381.36	122.06	27.21	-67.87	-606.68	5,238.35	8,638.49	8,572.48	66.01	130.862		
11,100.00	6,910.73	6,384.78	6,380.25	124.79	27.20	-67.83	-606.70	5,238.29	8,736.80	8,670.62	66.19	132.003		
11,200.00	6,909.65	6,383.69	6,379.17	127.53	27.20	-67.80	-606.72	5,238.22	8,835.15	8,768.79	66.36	133.141		
11,300.00	6,908.57	6,382.63	6,378.11	130.27	27.19	-67.76	-606.74	5,238.16	8,933.53	8,867.00	66.53	134.277		
11,400.00	6,907.49	6,381.59	6,377.07	133.02	27.19	-67.73	-606.75	5,238.10	9,031.95	8,965.25	66.70	135.410		
11,500.00	6,906.41	6,380.57	6,376.05	135.77	27.18	-67.69	-606.77	5,238.04	9,130.40	9,063.53	66.87	136.541		
11,600.00	6,905.34	6,379.57	6,375.06	138.52	27.18	-67.66	-606.78	5,237.98	9,228.89	9,161.85	67.04	137.669		
11,700.00	6,904.26	6,342.00	6,337.53	141.28	27.02	-66.43	-607.10	5,236.32	9,327.90	9,260.82	67.08	139.055		
11,800.00	6,903.18	6,342.00	6,337.53	144.04	27.02	-66.43	-607.10	5,236.32	9,426.42	9,359.17	67.25	140.172		
11,900.00	6,902.10	6,342.00	6,337.53	146.80	27.02	-66.43	-607.10	5,236.32	9,524.97	9,457.56	67.42	141.286		
12,000.00	6,901.02	6,342.00	6,337.53	149.57	27.02	-66.43	-607.10	5,236.32	9,623.55	9,555.97	67.58	142.399		
12,100.00	6,899.94	6,342.00	6,337.53	152.34	27.02	-66.43	-607.10	5,236.32	9,722.16	9,654.42	67.75	143.509		
12,200.00	6,898.87	6,342.00	6,337.53	155.11	27.02	-66.43	-607.10	5,236.32	9,820.80	9,752.89	67.91	144.618		
12,300.00	6,897.79	6,342.00	6,337.53	157.89	27.02	-66.43	-607.10	5,236.32	9,919.46	9,851.39	68.07	145.724		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Kelly Farms #22-4-3CHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 80-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	97.39	-679.95	5,242.76	5,286.72					
100.00	100.00	90.75	90.75	3.28	3.29	97.40	-680.81	5,242.54	5,286.58	5,280.01	6.57	804.362		
200.00	200.00	205.27	205.25	3.34	3.36	97.42	-682.88	5,241.70	5,286.07	5,279.37	6.70	789.273		
300.00	299.98	290.87	290.83	3.44	3.46	45.58	-684.25	5,241.20	5,284.47	5,277.57	6.91	765.211		
400.00	399.84	387.73	387.68	3.61	3.62	45.69	-685.69	5,240.79	5,280.58	5,273.36	7.22	731.062		
500.00	499.45	532.95	532.87	3.81	3.94	45.91	-687.77	5,239.90	5,274.18	5,266.43	7.74	681.168		
600.00	598.70	675.44	675.24	4.06	4.32	46.25	-692.89	5,236.80	5,263.92	5,255.55	8.37	628.644		
700.00	697.47	742.00	741.62	4.35	4.52	46.57	-697.34	5,235.08	5,251.44	5,242.58	8.85	593.072		
800.00	795.62	793.24	792.69	4.66	4.69	46.90	-701.50	5,234.03	5,237.37	5,228.04	9.33	561.204		
900.00	893.06	837.00	836.29	5.01	4.84	47.25	-705.17	5,233.52	5,221.94	5,212.11	9.82	531.683		
961.44	952.51	864.64	863.82	5.25	4.93	47.48	-707.58	5,233.41	5,211.82	5,201.67	10.14	513.834		
1,000.00	989.71	879.95	879.07	5.40	4.98	47.53	-708.97	5,233.43	5,205.41	5,195.07	10.34	503.314		
1,100.00	1,086.20	930.00	928.88	5.81	5.16	47.69	-713.77	5,233.89	5,189.62	5,178.71	10.91	475.683		
1,200.00	1,182.69	930.00	928.88	6.24	5.16	47.69	-713.77	5,233.89	5,175.14	5,163.82	11.32	457.071		
1,300.00	1,279.18	982.53	981.12	6.69	5.35	47.86	-719.06	5,235.26	5,161.72	5,149.78	11.94	432.335		
1,400.00	1,375.67	1,025.00	1,023.33	7.15	5.51	47.99	-723.41	5,237.21	5,149.84	5,137.31	12.54	410.829		
1,500.00	1,472.15	1,500.00	1,286.69	7.62	7.35	48.75	-741.17	5,247.59	5,137.50	5,122.71	14.79	347.332		
1,600.00	1,568.64	1,353.38	1,350.76	8.10	6.76	48.92	-744.01	5,249.17	5,123.19	5,108.53	14.67	349.302		
1,700.00	1,665.13	1,402.56	1,399.86	8.59	6.95	49.05	-746.19	5,250.94	5,109.95	5,094.62	15.32	333.479		
1,800.00	1,761.62	1,479.38	1,476.49	9.08	7.26	49.26	-750.62	5,253.96	5,097.40	5,081.31	16.10	316.670		
1,900.00	1,858.11	1,599.08	1,595.88	9.58	7.75	49.61	-757.99	5,258.50	5,084.90	5,067.84	17.05	298.181		
2,000.00	1,954.60	1,780.21	1,776.65	10.08	8.51	50.11	-767.61	5,264.46	5,072.22	5,053.96	18.26	277.740		
2,100.00	2,051.09	1,833.80	1,830.16	10.59	8.73	50.26	-769.98	5,266.04	5,058.72	5,039.75	18.97	266.689		
2,200.00	2,147.57	1,913.60	1,909.84	11.09	9.06	50.48	-773.72	5,268.62	5,045.76	5,025.98	19.79	255.018		
2,300.00	2,244.06	1,976.00	1,972.12	11.61	9.33	50.65	-776.88	5,270.80	5,033.29	5,012.75	20.54	245.066		
2,400.00	2,340.55	2,039.00	2,034.96	12.12	9.60	50.83	-780.25	5,273.65	5,021.83	5,000.54	21.30	235.795		
2,500.00	2,437.04	2,106.22	2,102.00	12.64	9.88	51.02	-783.68	5,277.15	5,011.10	4,989.03	22.07	227.009		
2,600.00	2,533.53	2,206.10	2,201.62	13.15	10.31	51.29	-788.56	5,282.41	5,000.56	4,977.57	22.99	217.513		
2,700.00	2,630.02	2,325.35	2,320.48	13.67	10.84	51.65	-796.42	5,287.89	4,989.91	4,965.91	24.00	207.920		
2,800.00	2,726.50	2,403.80	2,398.65	14.19	11.19	51.89	-802.05	5,291.37	4,979.34	4,954.49	24.84	200.419		
2,900.00	2,822.99	2,521.78	2,516.28	14.72	11.71	52.24	-809.46	5,296.72	4,968.81	4,942.95	25.86	192.174		
3,000.00	2,919.48	2,710.12	2,704.16	15.24	12.55	52.80	-820.51	5,303.51	4,957.56	4,930.40	27.16	182.511		
3,100.00	3,015.97	2,797.13	2,790.89	15.76	12.95	53.08	-827.15	5,305.45	4,945.47	4,917.41	28.06	176.260		
3,200.00	3,112.46	2,925.03	2,918.40	16.29	13.52	53.49	-836.89	5,307.87	4,933.22	4,904.09	29.13	169.363		
3,300.00	3,208.95	3,063.52	3,056.69	16.81	14.14	53.91	-843.92	5,310.40	4,920.44	4,890.21	30.23	162.767		
3,400.00	3,305.44	3,266.72	3,259.77	17.34	15.01	54.48	-849.71	5,311.97	4,906.18	4,874.61	31.57	155.422		
3,500.00	3,401.92	3,365.62	3,358.68	17.87	15.42	54.73	-850.36	5,312.30	4,891.10	4,858.61	32.49	150.549		
3,600.00	3,498.41	3,450.59	3,443.64	18.40	15.78	54.95	-850.90	5,312.51	4,876.05	4,842.69	33.36	146.173		
3,700.00	3,594.90	3,523.11	3,516.16	18.93	16.08	55.14	-851.20	5,313.13	4,861.58	4,827.40	34.18	142.233		
3,800.00	3,691.39	3,613.37	3,606.41	19.46	16.45	55.37	-851.60	5,314.23	4,847.54	4,812.48	35.07	138.239		
3,900.00	3,787.88	3,720.05	3,713.08	19.99	16.89	55.65	-851.72	5,315.42	4,833.42	4,797.41	36.01	134.225		
4,000.00	3,884.37	3,812.26	3,805.29	20.52	17.26	55.88	-851.66	5,316.52	4,819.42	4,782.52	36.90	130.604		
4,100.00	3,980.85	3,922.96	3,915.98	21.05	17.71	56.17	-851.69	5,317.77	4,805.50	4,767.64	37.86	126.927		
4,200.00	4,077.34	4,028.44	4,021.46	21.58	18.15	56.44	-851.73	5,318.59	4,791.32	4,752.51	38.81	123.468		
4,300.00	4,173.83	4,091.75	4,084.76	22.11	18.42	56.62	-852.34	5,319.06	4,777.50	4,737.89	39.61	120.615		
4,390.25	4,260.91	4,243.17	4,236.16	22.59	19.06	57.04	-854.16	5,319.82	4,765.06	4,724.37	40.69	117.116		
4,400.00	4,270.32	4,252.58	4,245.57	22.64	19.10	57.04	-854.18	5,319.82	4,763.65	4,722.87	40.78	116.823		
4,500.00	4,367.33	4,350.57	4,343.56	23.16	19.51	57.06	-854.32	5,319.80	4,750.21	4,708.52	41.69	113.948		
4,600.00	4,465.13	4,449.14	4,442.13	23.65	19.90	57.07	-854.34	5,319.80	4,738.69	4,696.13	42.57	111.317		
4,700.00	4,563.60	4,581.83	4,574.82	24.12	20.43	57.14	-854.19	5,319.42	4,728.84	4,685.29	43.54	108.602		
4,800.00	4,662.61	4,685.10	4,678.09	24.56	20.83	57.15	-853.99	5,318.61	4,720.39	4,676.00	44.39	106.333		
4,900.00	4,762.05	4,771.69	4,764.68	24.98	21.17	57.13	-853.79	5,318.02	4,713.95	4,668.78	45.17	104.362		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 80-MWD													Offset Well Error:	3.28 ft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,851.15	4,844.13	25.38	21.49	57.12	-853.54	5,317.85	4,709.82	4,663.92	45.90	102.607		
5,100.00	4,961.73	4,950.60	4,943.58	25.76	21.88	57.11	-852.87	5,318.03	4,707.85	4,661.17	46.68	100.853		
5,151.69	5,013.42	5,017.31	5,010.29	25.95	22.14	109.00	-852.39	5,318.01	4,707.46	4,660.33	47.13	99.892		
5,200.00	5,061.73	5,068.10	5,061.08	26.13	22.34	109.00	-852.13	5,317.87	4,707.24	4,659.74	47.50	99.094		
5,300.00	5,161.73	5,174.94	5,167.92	26.49	22.77	109.00	-851.95	5,317.31	4,706.70	4,658.40	48.30	97.455		
5,400.00	5,261.73	5,256.71	5,249.69	26.86	23.10	109.00	-852.12	5,316.84	4,706.23	4,657.21	49.02	96.008		
5,500.00	5,361.73	5,347.23	5,340.21	27.23	23.49	109.01	-852.79	5,316.53	4,706.14	4,656.36	49.78	94.534		
5,600.00	5,461.73	5,490.18	5,483.15	27.60	24.08	109.02	-853.76	5,315.71	4,705.90	4,655.17	50.73	92.765		
5,700.00	5,561.73	5,617.64	5,610.57	27.97	24.59	108.99	-850.78	5,314.68	4,704.29	4,652.69	51.59	91.178		
5,800.00	5,661.73	5,706.04	5,698.94	28.35	24.94	108.97	-848.97	5,314.00	4,702.89	4,650.56	52.33	89.863		
5,900.00	5,761.73	5,785.86	5,778.75	28.72	25.26	108.97	-848.09	5,313.38	4,701.81	4,648.75	53.05	88.629		
6,000.00	5,861.73	5,879.85	5,872.74	29.10	25.64	108.97	-847.89	5,312.74	4,701.08	4,647.26	53.82	87.345		
6,100.00	5,961.73	5,979.83	5,972.72	29.48	26.06	108.98	-848.40	5,311.79	4,700.35	4,645.73	54.63	86.047		
6,200.00	6,061.73	6,065.50	6,058.38	29.86	26.42	108.99	-849.14	5,311.00	4,699.76	4,644.38	55.39	84.855		
6,300.00	6,161.73	6,177.22	6,170.09	30.25	26.90	109.01	-850.69	5,309.88	4,699.28	4,643.03	56.24	83.552		
6,371.88	6,233.61	6,217.75	6,210.61	30.52	27.07	109.02	-851.14	5,309.61	4,699.06	4,642.35	56.72	82.853	CC	
6,400.00	6,261.73	6,234.80	6,227.66	30.63	27.14	109.02	-851.23	5,309.60	4,699.10	4,642.19	56.90	82.580		
6,451.69	6,313.42	6,280.48	6,273.34	30.83	27.33	109.02	-851.23	5,309.82	4,699.31	4,642.01	57.30	82.012	ES	
6,500.00	6,361.68	6,500.00	6,333.76	31.01	28.25	-158.47	-851.27	5,309.79	4,700.98	4,642.59	58.39	80.506	SF	
6,550.00	6,411.34	6,376.70	6,369.56	31.20	27.73	-158.31	-851.31	5,309.79	4,706.37	4,648.31	58.06	81.060		
6,600.00	6,460.39	6,397.84	6,390.70	31.38	27.82	-158.01	-851.29	5,309.95	4,715.67	4,657.34	58.33	80.842		
6,650.00	6,508.54	6,438.00	6,430.85	31.58	27.99	-157.61	-851.16	5,310.65	4,728.89	4,670.23	58.66	80.611		
6,700.00	6,555.48	6,438.00	6,430.85	31.78	27.99	-156.99	-851.16	5,310.65	4,745.67	4,686.83	58.83	80.663		
6,750.00	6,600.93	6,438.00	6,430.85	31.98	27.99	-156.18	-851.16	5,310.65	4,766.25	4,707.26	58.99	80.800		
6,800.00	6,644.61	6,438.00	6,430.85	32.20	27.99	-155.15	-851.16	5,310.65	4,790.45	4,731.33	59.13	81.019		
6,850.00	6,686.25	6,438.00	6,430.85	32.44	27.99	-153.87	-851.16	5,310.65	4,818.08	4,758.83	59.25	81.314		
6,900.00	6,725.58	6,474.22	6,467.04	32.68	28.14	-152.45	-850.91	5,312.07	4,848.28	4,788.77	59.52	81.462		
6,950.00	6,762.38	6,481.66	6,474.47	32.96	28.17	-150.55	-850.84	5,312.49	4,881.77	4,822.12	59.65	81.839		
7,000.00	6,796.41	6,488.38	6,481.17	33.25	28.20	-148.19	-850.77	5,312.92	4,917.93	4,858.16	59.77	82.275		
7,050.00	6,827.46	6,527.00	6,519.66	33.58	28.36	-145.56	-850.27	5,316.09	4,957.00	4,896.97	60.03	82.580		
7,100.00	6,855.34	6,527.00	6,519.66	33.93	28.36	-141.87	-850.27	5,316.09	4,997.53	4,937.42	60.11	83.140		
7,150.00	6,879.88	6,527.00	6,519.66	34.33	28.36	-137.19	-850.27	5,316.09	5,039.93	4,979.74	60.19	83.737		
7,200.00	6,900.93	6,527.00	6,519.66	34.76	28.36	-131.22	-850.27	5,316.09	5,083.90	5,023.64	60.26	84.364		
7,250.00	6,918.36	6,527.00	6,519.66	35.23	28.36	-123.63	-850.27	5,316.09	5,129.14	5,068.81	60.33	85.011		
7,300.00	6,932.05	6,527.00	6,519.66	35.74	28.36	-114.12	-850.27	5,316.09	5,175.33	5,114.93	60.41	85.673		
7,350.00	6,941.94	6,527.00	6,519.66	36.29	28.36	-102.70	-850.27	5,316.09	5,222.18	5,161.69	60.48	86.342		
7,400.00	6,947.94	6,527.00	6,519.66	36.87	28.36	-89.96	-850.27	5,316.09	5,269.36	5,208.80	60.56	87.010		
7,450.00	6,950.04	6,527.00	6,519.66	37.47	28.36	-77.09	-850.27	5,316.09	5,316.60	5,255.96	60.64	87.673		
7,458.56	6,950.00	6,527.00	6,519.66	37.58	28.36	-74.98	-850.27	5,316.09	5,324.67	5,264.02	60.66	87.785		
7,500.00	6,949.56	6,527.00	6,519.66	38.11	28.36	-74.98	-850.27	5,316.09	5,363.75	5,303.02	60.73	88.325		
7,600.00	6,948.48	6,527.00	6,519.66	39.51	28.36	-74.98	-850.27	5,316.09	5,458.18	5,397.26	60.91	89.608		
7,700.00	6,947.40	6,527.00	6,519.66	41.06	28.36	-74.98	-850.27	5,316.09	5,552.80	5,491.69	61.11	90.869		
7,800.00	6,946.32	6,527.00	6,519.66	42.74	28.36	-74.98	-850.27	5,316.09	5,647.61	5,586.29	61.31	92.108		
7,900.00	6,945.24	6,527.00	6,519.66	44.55	28.36	-74.98	-850.27	5,316.09	5,742.60	5,681.06	61.53	93.329		
8,000.00	6,944.16	6,527.00	6,519.66	46.46	28.36	-74.98	-850.27	5,316.09	5,837.75	5,775.99	61.75	94.532		
8,100.00	6,943.08	6,527.00	6,519.66	48.47	28.36	-74.98	-850.27	5,316.09	5,933.06	5,871.08	61.98	95.719		
8,200.00	6,942.01	6,527.00	6,519.66	50.55	28.36	-74.98	-850.27	5,316.09	6,028.53	5,966.31	62.22	96.892		
8,300.00	6,940.93	6,527.00	6,519.66	52.71	28.36	-74.98	-850.27	5,316.09	6,124.14	6,061.68	62.46	98.052		
8,400.00	6,939.85	6,527.00	6,519.66	54.93	28.36	-74.98	-850.27	5,316.09	6,219.88	6,157.18	62.70	99.199		
8,500.00	6,938.77	6,527.00	6,519.66	57.20	28.36	-74.98	-850.27	5,316.09	6,315.76	6,252.82	62.95	100.336		
8,600.00	6,937.69	6,527.00	6,519.66	59.53	28.36	-74.98	-850.27	5,316.09	6,411.77	6,348.58	63.19	101.463		
8,700.00	6,936.61	6,527.00	6,519.66	61.89	28.36	-74.98	-850.27	5,316.09	6,507.89	6,444.45	63.44	102.581		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Kelly Farms #22-4-3CHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 80-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	6,527.00	6,519.66	64.30	28.36	-74.98	-850.27	5,316.09	6,604.13	6,540.44	63.69	103.691		
8,900.00	6,934.46	6,490.61	6,483.40	66.74	28.21	-73.86	-850.75	5,313.07	6,699.86	6,636.06	63.80	105.014		
9,000.00	6,933.38	6,489.37	6,482.17	69.21	28.21	-73.82	-850.76	5,312.98	6,796.28	6,732.23	64.05	106.116		
9,100.00	6,932.30	6,488.17	6,480.96	71.71	28.20	-73.79	-850.77	5,312.90	6,892.79	6,828.50	64.29	107.212		
9,200.00	6,931.22	6,486.99	6,479.79	74.23	28.20	-73.75	-850.79	5,312.83	6,989.40	6,924.87	64.54	108.301		
9,300.00	6,930.14	6,485.84	6,478.64	76.78	28.19	-73.72	-850.80	5,312.75	7,086.11	7,021.33	64.78	109.386		
9,400.00	6,929.06	6,484.72	6,477.53	79.34	28.19	-73.68	-850.81	5,312.68	7,182.90	7,117.88	65.02	110.465		
9,500.00	6,927.99	6,483.63	6,476.44	81.93	28.18	-73.65	-850.82	5,312.61	7,279.78	7,214.51	65.27	111.540		
9,600.00	6,926.91	6,482.57	6,475.38	84.53	28.18	-73.62	-850.83	5,312.55	7,376.74	7,311.23	65.51	112.611		
9,700.00	6,925.83	6,481.53	6,474.34	87.14	28.17	-73.59	-850.84	5,312.48	7,473.78	7,408.04	65.75	113.677		
9,800.00	6,924.75	6,480.52	6,473.33	89.77	28.17	-73.55	-850.85	5,312.42	7,570.90	7,504.91	65.98	114.740		
9,900.00	6,923.67	6,479.53	6,472.34	92.41	28.17	-73.52	-850.86	5,312.37	7,668.09	7,601.87	66.22	115.800		
10,000.00	6,922.59	6,478.56	6,471.38	95.07	28.16	-73.49	-850.87	5,312.31	7,765.35	7,698.89	66.45	116.857		
10,100.00	6,921.51	6,477.62	6,470.43	97.73	28.16	-73.47	-850.88	5,312.25	7,862.67	7,795.99	66.68	117.910		
10,200.00	6,920.44	6,476.69	6,469.51	100.40	28.15	-73.44	-850.89	5,312.20	7,960.07	7,893.15	66.91	118.961		
10,300.00	6,919.36	6,475.79	6,468.61	103.08	28.15	-73.41	-850.90	5,312.15	8,057.52	7,990.38	67.14	120.010		
10,400.00	6,918.28	6,438.00	6,430.85	105.77	27.99	-72.26	-851.16	5,310.65	8,155.67	8,088.44	67.23	121.302		
10,500.00	6,917.20	6,438.00	6,430.85	108.47	27.99	-72.26	-851.16	5,310.65	8,253.22	8,185.76	67.46	122.339		
10,600.00	6,916.12	6,438.00	6,430.85	111.18	27.99	-72.26	-851.16	5,310.65	8,350.82	8,283.13	67.69	123.375		
10,700.00	6,915.04	6,438.00	6,430.85	113.89	27.99	-72.26	-851.16	5,310.65	8,448.48	8,380.57	67.91	124.409		
10,800.00	6,913.96	6,438.00	6,430.85	116.61	27.99	-72.26	-851.16	5,310.65	8,546.20	8,478.07	68.13	125.441		
10,900.00	6,912.89	6,438.00	6,430.85	119.33	27.99	-72.26	-851.16	5,310.65	8,643.96	8,575.61	68.35	126.471		
11,000.00	6,911.81	6,438.00	6,430.85	122.06	27.99	-72.26	-851.16	5,310.65	8,741.78	8,673.22	68.56	127.499		
11,100.00	6,910.73	6,438.00	6,430.85	124.79	27.99	-72.26	-851.16	5,310.65	8,839.65	8,770.87	68.78	128.526		
11,200.00	6,909.65	6,438.00	6,430.85	127.53	27.99	-72.26	-851.16	5,310.65	8,937.56	8,868.57	68.99	129.552		
11,300.00	6,908.57	6,438.00	6,430.85	130.27	27.99	-72.26	-851.16	5,310.65	9,035.52	8,966.32	69.20	130.575		
11,400.00	6,907.49	6,438.00	6,430.85	133.02	27.99	-72.26	-851.16	5,310.65	9,133.52	9,064.12	69.40	131.598		
11,500.00	6,906.41	6,438.00	6,430.85	135.77	27.99	-72.26	-851.16	5,310.65	9,231.57	9,161.96	69.61	132.618		
11,600.00	6,905.34	6,438.00	6,430.85	138.52	27.99	-72.26	-851.16	5,310.65	9,329.65	9,259.84	69.81	133.638		
11,700.00	6,904.26	6,438.00	6,430.85	141.28	27.99	-72.26	-851.16	5,310.65	9,427.78	9,357.77	70.01	134.656		
11,800.00	6,903.18	6,438.00	6,430.85	144.04	27.99	-72.26	-851.16	5,310.65	9,525.95	9,455.74	70.21	135.672		
11,900.00	6,902.10	6,438.00	6,430.85	146.80	27.99	-72.26	-851.16	5,310.65	9,624.15	9,553.74	70.41	136.687		
12,000.00	6,901.02	6,438.00	6,430.85	149.57	27.99	-72.26	-851.16	5,310.65	9,722.39	9,651.79	70.60	137.701		
12,100.00	6,899.94	6,438.00	6,430.85	152.34	27.99	-72.26	-851.16	5,310.65	9,820.67	9,749.87	70.80	138.714		
12,200.00	6,898.87	6,438.00	6,430.85	155.11	27.99	-72.26	-851.16	5,310.65	9,918.98	9,847.99	70.99	139.725		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Kelly Farms #A-4-3CHZ - oH - OH													Offset Well Error:	3.28 ft
Survey Program: 79-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	97.02	-649.71	5,277.55	5,317.44					
100.00	100.00	87.23	87.23	3.28	3.29	97.02	-649.69	5,277.47	5,317.32	5,310.75	6.57	809.297		
200.00	200.00	187.24	187.24	3.34	3.34	97.02	-649.49	5,277.31	5,317.14	5,310.46	6.68	795.999		
300.00	299.98	287.42	287.42	3.44	3.45	45.15	-648.94	5,277.17	5,315.70	5,308.80	6.90	770.646		
400.00	399.84	389.31	389.30	3.61	3.62	45.24	-648.63	5,277.06	5,311.86	5,304.64	7.22	735.760		
500.00	499.45	505.96	505.95	3.81	3.86	45.42	-648.84	5,276.45	5,305.21	5,297.55	7.66	692.388		
600.00	598.70	588.26	588.25	4.06	4.05	45.63	-649.05	5,276.05	5,296.20	5,288.10	8.10	653.683		
700.00	697.47	658.57	658.56	4.35	4.23	45.87	-648.43	5,276.14	5,285.24	5,276.67	8.57	617.031		
800.00	795.62	722.66	722.63	4.66	4.41	46.13	-647.06	5,276.72	5,272.48	5,263.42	9.06	582.130		
900.00	893.06	828.87	828.75	5.01	4.73	46.49	-642.83	5,278.34	5,257.73	5,248.01	9.72	541.009		
961.44	952.51	887.55	887.30	5.25	4.92	46.72	-639.09	5,279.30	5,247.37	5,237.24	10.13	517.891		
1,000.00	989.71	923.08	922.70	5.40	5.04	46.76	-636.19	5,279.98	5,240.62	5,230.22	10.39	504.173		
1,100.00	1,086.20	1,016.16	1,015.28	5.81	5.36	46.86	-626.76	5,282.09	5,223.18	5,212.08	11.10	470.361		
1,200.00	1,182.69	1,121.21	1,119.47	6.24	5.75	46.93	-613.70	5,284.80	5,205.75	5,193.85	11.90	437.516		
1,300.00	1,279.18	1,226.13	1,223.49	6.69	6.16	47.01	-600.31	5,287.58	5,188.37	5,175.64	12.73	407.606		
1,400.00	1,375.67	1,393.77	1,389.61	7.15	6.86	47.12	-577.94	5,290.11	5,169.58	5,155.74	13.85	373.361		
1,500.00	1,472.15	1,563.04	1,557.75	7.62	7.58	47.27	-558.44	5,289.89	5,149.45	5,134.46	14.99	343.436		
1,600.00	1,568.64	1,643.73	1,637.87	8.10	7.93	47.34	-548.86	5,289.62	5,129.32	5,113.53	15.80	324.727		
1,700.00	1,665.13	1,700.27	1,693.87	8.59	8.19	47.38	-541.03	5,289.87	5,109.71	5,093.20	16.51	309.493		
1,800.00	1,761.62	1,762.00	1,754.99	9.08	8.47	47.42	-532.48	5,290.89	5,091.12	5,073.87	17.26	295.004		
1,900.00	1,858.11	1,800.02	1,792.61	9.58	8.65	47.44	-527.10	5,291.91	5,073.40	5,055.49	17.91	283.241		
2,000.00	1,954.60	2,000.00	1,908.75	10.08	9.60	47.49	-508.83	5,295.55	5,056.12	5,036.79	19.33	261.533		
2,100.00	2,051.09	2,005.76	1,995.78	10.59	9.63	47.52	-495.21	5,297.68	5,038.22	5,018.39	19.83	254.012		
2,200.00	2,147.57	2,055.23	2,044.70	11.09	9.87	47.55	-488.04	5,299.33	5,021.28	5,000.72	20.56	244.221		
2,300.00	2,244.06	2,111.07	2,099.92	11.61	10.13	47.58	-480.13	5,301.65	5,005.23	4,983.91	21.32	234.784		
2,400.00	2,340.55	2,249.30	2,236.77	12.12	10.80	47.67	-461.45	5,306.99	4,988.89	4,966.43	22.46	222.156		
2,500.00	2,437.04	2,289.33	2,276.42	12.64	10.99	47.70	-456.17	5,308.68	4,973.06	4,949.91	23.15	214.834		
2,600.00	2,533.53	2,600.00	2,391.07	13.15	12.51	47.77	-440.53	5,314.12	4,957.64	4,932.49	25.15	197.137		
2,700.00	2,630.02	2,465.96	2,451.18	13.67	11.85	47.81	-431.91	5,316.84	4,942.11	4,917.12	24.99	197.729		
2,800.00	2,726.50	2,599.16	2,582.72	14.19	12.52	47.87	-412.41	5,324.50	4,927.77	4,901.63	26.14	188.498		
2,900.00	2,822.99	2,727.81	2,709.96	14.72	13.16	47.95	-394.27	5,330.11	4,911.94	4,884.68	27.27	180.145		
3,000.00	2,919.48	2,850.65	2,831.63	15.24	13.77	48.03	-377.95	5,334.70	4,895.65	4,867.29	28.36	172.648		
3,100.00	3,015.97	2,944.43	2,924.90	15.76	14.21	48.14	-368.61	5,337.43	4,879.07	4,849.78	29.29	166.567		
3,200.00	3,112.46	3,089.70	3,069.84	16.29	14.84	48.37	-359.58	5,340.04	4,861.96	4,831.56	30.40	159.919		
3,300.00	3,208.95	3,175.05	3,155.18	16.81	15.18	48.55	-358.34	5,340.69	4,844.72	4,813.47	31.25	155.055		
3,400.00	3,305.44	3,296.84	3,276.95	17.34	15.62	48.86	-360.16	5,341.08	4,827.64	4,795.46	32.18	150.029		
3,500.00	3,401.92	3,428.13	3,408.22	17.87	16.09	49.20	-362.49	5,340.31	4,809.78	4,776.65	33.14	145.147		
3,600.00	3,498.41	3,588.41	3,568.48	18.40	16.70	49.60	-362.78	5,338.28	4,791.16	4,756.95	34.21	140.042		
3,700.00	3,594.90	3,633.41	3,613.48	18.93	16.88	49.71	-362.67	5,337.69	4,772.42	4,737.49	34.92	136.649		
3,800.00	3,691.39	3,692.72	3,672.78	19.46	17.11	49.85	-362.40	5,337.55	4,754.72	4,719.04	35.69	133.240		
3,900.00	3,787.88	3,836.26	3,816.32	19.99	17.69	50.20	-361.76	5,336.85	4,736.94	4,700.20	36.74	128.944		
4,000.00	3,884.37	3,938.43	3,918.48	20.52	18.09	50.46	-361.54	5,335.64	4,718.61	4,680.96	37.64	125.350		
4,100.00	3,980.85	4,027.21	4,007.26	21.05	18.44	50.68	-361.23	5,334.67	4,700.43	4,661.92	38.51	122.057		
4,200.00	4,077.34	4,112.65	4,092.69	21.58	18.78	50.90	-361.28	5,333.85	4,682.53	4,643.16	39.36	118.958		
4,300.00	4,173.83	4,186.62	4,166.66	22.11	19.06	51.09	-361.72	5,333.31	4,665.04	4,624.87	40.17	116.121		
4,390.25	4,260.91	4,262.21	4,242.25	22.59	19.36	51.29	-362.22	5,333.07	4,649.70	4,608.77	40.94	113.587		
4,400.00	4,270.32	4,270.97	4,251.01	22.64	19.39	51.29	-362.25	5,333.05	4,648.07	4,607.05	41.02	113.315		
4,500.00	4,367.33	4,354.84	4,334.88	23.16	19.72	51.24	-362.41	5,333.05	4,632.66	4,590.80	41.85	110.686		
4,600.00	4,465.13	4,446.42	4,426.46	23.65	20.07	51.23	-362.53	5,333.32	4,619.74	4,577.04	42.70	108.195		
4,700.00	4,563.60	4,544.78	4,524.82	24.12	20.46	51.23	-362.66	5,333.63	4,609.07	4,565.52	43.55	105.836		
4,800.00	4,662.61	4,614.77	4,594.81	24.56	20.74	51.19	-362.51	5,334.07	4,600.85	4,556.56	44.29	103.877		
4,900.00	4,762.05	4,693.77	4,673.79	24.98	21.07	51.17	-361.51	5,335.39	4,595.56	4,550.51	45.05	102.006		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Kelly Farms #A-4-3CHZ - oH - OH													Offset Well Error:	3.28 ft
Survey Program: 79-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	5,000.00	4,806.42	25.38	22.37	51.16	-358.01	5,337.51	4,592.06	4,545.32	46.74	98.242		
5,092.89	4,954.62	4,892.58	4,872.51	25.74	21.91	51.15	-356.49	5,338.34	4,590.66	4,544.00	46.65	98.403		
5,100.00	4,961.73	4,896.30	4,876.22	25.76	21.92	51.15	-356.45	5,338.39	4,590.66	4,543.97	46.70	98.309		
5,151.69	5,013.42	4,923.97	4,903.89	25.95	22.04	103.05	-356.35	5,338.88	4,591.21	4,544.20	47.02	97.652		
5,200.00	5,061.73	5,012.31	4,992.21	26.13	22.39	103.06	-357.79	5,339.86	4,591.91	4,544.39	47.52	96.630		
5,300.00	5,161.73	5,159.37	5,139.23	26.49	22.96	103.11	-361.41	5,339.67	4,592.31	4,543.88	48.43	94.819		
5,400.00	5,261.73	5,268.28	5,248.11	26.86	23.38	103.13	-363.54	5,339.01	4,592.16	4,542.93	49.23	93.288		
5,500.00	5,361.73	5,398.14	5,377.94	27.23	23.90	103.17	-365.83	5,337.73	4,591.59	4,541.50	50.09	91.663		
5,600.00	5,461.73	5,496.64	5,476.44	27.60	24.29	103.18	-366.95	5,336.57	4,590.71	4,539.84	50.86	90.257		
5,700.00	5,561.73	5,569.13	5,548.91	27.97	24.58	103.20	-367.85	5,335.86	4,590.08	4,538.53	51.55	89.041		
5,720.23	5,581.96	5,579.17	5,558.96	28.05	24.62	103.20	-368.01	5,335.81	4,590.06	4,538.38	51.67	88.827		
5,800.00	5,661.73	5,618.78	5,598.56	28.35	24.78	103.21	-368.83	5,335.80	4,590.41	4,538.25	52.16	88.008		
5,900.00	5,761.73	5,698.90	5,678.64	28.72	25.09	103.23	-371.01	5,336.31	4,591.62	4,538.75	52.87	86.849		
6,000.00	5,861.73	5,837.08	5,816.76	29.10	25.64	103.28	-375.16	5,336.73	4,592.64	4,538.86	53.78	85.396		
6,100.00	5,961.73	6,019.87	5,999.49	29.48	26.38	103.34	-379.36	5,334.89	4,592.16	4,537.32	54.84	83.734		
6,200.00	6,061.73	6,110.51	6,090.10	29.86	26.75	103.36	-380.76	5,333.36	4,590.89	4,535.28	55.60	82.563		
6,300.00	6,161.73	6,199.70	6,179.29	30.25	27.11	103.37	-381.42	5,332.41	4,590.01	4,533.64	56.37	81.432		
6,400.00	6,261.73	6,291.63	6,271.20	30.63	27.49	103.39	-382.50	5,331.13	4,588.94	4,531.80	57.14	80.313		
6,451.69	6,313.42	6,317.61	6,297.18	30.83	27.59	103.39	-382.79	5,330.94	4,588.72	4,531.26	57.46	79.854		
6,452.60	6,314.33	6,318.07	6,297.64	30.83	27.60	-164.15	-382.80	5,330.94	4,588.72	4,531.25	57.47	79.847 CC, ES		
6,500.00	6,361.68	6,351.00	6,330.56	31.01	27.73	-164.11	-383.09	5,330.95	4,590.56	4,532.77	57.79	79.435		
6,550.00	6,411.34	6,371.84	6,351.41	31.20	27.82	-163.97	-383.24	5,331.06	4,596.37	4,538.30	58.07	79.157		
6,600.00	6,460.39	6,404.27	6,383.83	31.38	27.95	-163.74	-383.43	5,331.34	4,606.11	4,547.73	58.37	78.909		
6,650.00	6,508.54	6,441.00	6,420.56	31.58	28.10	-163.42	-383.59	5,331.82	4,619.69	4,561.01	58.68	78.723 SF		
6,700.00	6,555.48	6,441.00	6,420.56	31.78	28.10	-162.93	-383.59	5,331.82	4,637.12	4,578.27	58.84	78.804		
6,750.00	6,600.93	6,441.00	6,420.56	31.98	28.10	-162.30	-383.59	5,331.82	4,658.46	4,599.47	58.99	78.974		
6,800.00	6,644.61	6,476.02	6,455.56	32.20	28.25	-161.57	-383.60	5,332.74	4,683.05	4,623.80	59.26	79.032		
6,850.00	6,686.25	6,487.10	6,466.64	32.44	28.29	-160.60	-383.55	5,333.19	4,711.30	4,651.88	59.41	79.296		
6,900.00	6,725.58	6,497.41	6,476.93	32.68	28.33	-159.39	-383.50	5,333.67	4,742.76	4,683.20	59.56	79.635		
6,950.00	6,762.38	6,530.00	6,509.46	32.96	28.47	-157.99	-383.19	5,335.64	4,777.41	4,717.63	59.78	79.917		
7,000.00	6,796.41	6,530.00	6,509.46	33.25	28.47	-156.05	-383.19	5,335.64	4,814.45	4,754.60	59.86	80.434		
7,050.00	6,827.46	6,530.00	6,509.46	33.58	28.47	-153.57	-383.19	5,335.64	4,854.01	4,794.09	59.92	81.006		
7,100.00	6,855.34	6,530.00	6,509.46	33.93	28.47	-150.35	-383.19	5,335.64	4,895.79	4,835.81	59.98	81.626		
7,150.00	6,879.88	6,530.00	6,509.46	34.33	28.47	-146.09	-383.19	5,335.64	4,939.46	4,879.43	60.03	82.286		
7,200.00	6,900.93	6,530.00	6,509.46	34.76	28.47	-140.34	-383.19	5,335.64	4,984.73	4,924.65	60.07	82.978		
7,250.00	6,918.36	6,530.00	6,509.46	35.23	28.47	-132.44	-383.19	5,335.64	5,031.26	4,971.14	60.12	83.693		
7,300.00	6,932.05	6,530.00	6,509.46	35.74	28.47	-121.53	-383.19	5,335.64	5,078.75	5,018.59	60.16	84.424		
7,350.00	6,941.94	6,530.00	6,509.46	36.29	28.47	-107.02	-383.19	5,335.64	5,126.87	5,066.67	60.20	85.163		
7,400.00	6,947.94	6,530.00	6,509.46	36.87	28.47	-89.62	-383.19	5,335.64	5,175.32	5,115.07	60.25	85.903		
7,450.00	6,950.04	6,530.00	6,509.46	37.47	28.47	-72.14	-383.19	5,335.64	5,223.79	5,163.49	60.30	86.636		
7,458.56	6,950.00	6,530.00	6,509.46	37.58	28.47	-69.37	-383.19	5,335.64	5,232.06	5,171.76	60.30	86.761		
7,500.00	6,949.56	6,530.00	6,509.46	38.11	28.47	-69.37	-383.19	5,335.64	5,272.14	5,211.79	60.35	87.359		
7,600.00	6,948.48	6,530.00	6,509.46	39.51	28.47	-69.37	-383.19	5,335.64	5,368.91	5,308.45	60.47	88.792		
7,700.00	6,947.40	6,530.00	6,509.46	41.06	28.47	-69.37	-383.19	5,335.64	5,465.80	5,405.22	60.59	90.211		
7,800.00	6,946.32	6,530.00	6,509.46	42.74	28.47	-69.37	-383.19	5,335.64	5,562.81	5,502.09	60.72	91.617		
7,900.00	6,945.24	6,530.00	6,509.46	44.55	28.47	-69.37	-383.19	5,335.64	5,659.91	5,599.06	60.85	93.011		
8,000.00	6,944.16	6,530.00	6,509.46	46.46	28.47	-69.37	-383.19	5,335.64	5,757.12	5,696.13	60.99	94.394		
8,100.00	6,943.08	6,530.00	6,509.46	48.47	28.47	-69.37	-383.19	5,335.64	5,854.42	5,793.29	61.13	95.766		
8,200.00	6,942.01	6,530.00	6,509.46	50.55	28.47	-69.37	-383.19	5,335.64	5,951.81	5,890.53	61.28	97.129		
8,300.00	6,940.93	6,530.00	6,509.46	52.71	28.47	-69.37	-383.19	5,335.64	6,049.28	5,987.86	61.43	98.482		
8,400.00	6,939.85	6,530.00	6,509.46	54.93	28.47	-69.37	-383.19	5,335.64	6,146.84	6,085.27	61.58	99.826		
8,500.00	6,938.77	6,530.00	6,509.46	57.20	28.47	-69.37	-383.19	5,335.64	6,244.47	6,182.75	61.73	101.163		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Kelly Farms #A-4-3CHZ - oH - OH	Offset Site Error:	0.00 ft
Survey Program: 79-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,600.00	6,937.69	6,530.00	6,509.46	59.53	28.47	-69.37	-383.19	5,335.64	6,342.18	6,280.30	61.88	102.491			
8,700.00	6,936.61	6,530.00	6,509.46	61.89	28.47	-69.37	-383.19	5,335.64	6,439.96	6,377.92	62.03	103.813			
8,800.00	6,935.54	6,530.00	6,509.46	64.30	28.47	-69.37	-383.19	5,335.64	6,537.80	6,475.61	62.19	105.127			
8,900.00	6,934.46	6,530.00	6,509.46	66.74	28.47	-69.37	-383.19	5,335.64	6,635.71	6,573.37	62.35	106.435			
9,000.00	6,933.38	6,530.00	6,509.46	69.21	28.47	-69.37	-383.19	5,335.64	6,733.68	6,671.18	62.50	107.737			
9,100.00	6,932.30	6,530.00	6,509.46	71.71	28.47	-69.37	-383.19	5,335.64	6,831.71	6,769.05	62.66	109.033			
9,200.00	6,931.22	6,530.00	6,509.46	74.23	28.47	-69.37	-383.19	5,335.64	6,929.80	6,866.98	62.81	110.323			
9,300.00	6,930.14	6,530.00	6,509.46	76.78	28.47	-69.37	-383.19	5,335.64	7,027.94	6,964.97	62.97	111.608			
9,400.00	6,929.06	6,530.00	6,509.46	79.34	28.47	-69.37	-383.19	5,335.64	7,126.13	7,063.00	63.13	112.888			
9,500.00	6,927.99	6,530.00	6,509.46	81.93	28.47	-69.37	-383.19	5,335.64	7,224.37	7,161.09	63.28	114.164			
9,600.00	6,926.91	6,530.00	6,509.46	84.53	28.47	-69.37	-383.19	5,335.64	7,322.66	7,259.22	63.44	115.434			
9,700.00	6,925.83	6,530.00	6,509.46	87.14	28.47	-69.37	-383.19	5,335.64	7,420.99	7,357.40	63.59	116.700			
9,800.00	6,924.75	6,530.00	6,509.46	89.77	28.47	-69.37	-383.19	5,335.64	7,519.37	7,455.62	63.74	117.962			
9,900.00	6,923.67	6,530.00	6,509.46	92.41	28.47	-69.37	-383.19	5,335.64	7,617.79	7,553.89	63.90	119.219			
10,000.00	6,922.59	6,530.00	6,509.46	95.07	28.47	-69.37	-383.19	5,335.64	7,716.25	7,652.20	64.05	120.472			
10,100.00	6,921.51	6,530.00	6,509.46	97.73	28.47	-69.37	-383.19	5,335.64	7,814.75	7,750.55	64.20	121.722			
10,200.00	6,920.44	6,530.00	6,509.46	100.40	28.47	-69.37	-383.19	5,335.64	7,913.29	7,848.93	64.35	122.967			
10,300.00	6,919.36	6,530.00	6,509.46	103.08	28.47	-69.37	-383.19	5,335.64	8,011.86	7,947.36	64.50	124.209			
10,400.00	6,918.28	6,530.00	6,509.46	105.77	28.47	-69.37	-383.19	5,335.64	8,110.47	8,045.82	64.65	125.447			
10,500.00	6,917.20	6,530.00	6,509.46	108.47	28.47	-69.37	-383.19	5,335.64	8,209.11	8,144.31	64.80	126.682			
10,600.00	6,916.12	6,530.00	6,509.46	111.18	28.47	-69.37	-383.19	5,335.64	8,307.79	8,242.84	64.95	127.913			
10,700.00	6,915.04	6,530.00	6,509.46	113.89	28.47	-69.37	-383.19	5,335.64	8,406.49	8,341.40	65.10	129.141			
10,800.00	6,913.96	6,530.00	6,509.46	116.61	28.47	-69.37	-383.19	5,335.64	8,505.23	8,439.99	65.24	130.365			
10,900.00	6,912.89	6,530.00	6,509.46	119.33	28.47	-69.37	-383.19	5,335.64	8,604.00	8,538.61	65.39	131.586			
11,000.00	6,911.81	6,530.00	6,509.46	122.06	28.47	-69.37	-383.19	5,335.64	8,702.79	8,637.26	65.53	132.804			
11,100.00	6,910.73	6,493.59	6,473.12	124.79	28.32	-67.93	-383.52	5,333.48	8,801.14	8,735.58	65.55	134.256			
11,200.00	6,909.65	6,492.66	6,472.19	127.53	28.31	-67.90	-383.53	5,333.44	8,899.96	8,834.27	65.70	135.474			
11,300.00	6,908.57	6,491.75	6,471.28	130.27	28.31	-67.86	-383.53	5,333.40	8,998.81	8,932.98	65.83	136.688			
11,400.00	6,907.49	6,490.86	6,470.39	133.02	28.31	-67.83	-383.54	5,333.35	9,097.68	9,031.71	65.97	137.900			
11,500.00	6,906.41	6,489.98	6,469.51	135.77	28.30	-67.79	-383.54	5,333.31	9,196.58	9,130.47	66.11	139.108			
11,600.00	6,905.34	6,489.12	6,468.65	138.52	28.30	-67.76	-383.54	5,333.28	9,295.50	9,229.25	66.25	140.313			
11,700.00	6,904.26	6,488.27	6,467.81	141.28	28.30	-67.73	-383.55	5,333.24	9,394.45	9,328.06	66.39	141.514			
11,800.00	6,903.18	6,487.45	6,466.98	144.04	28.29	-67.69	-383.55	5,333.20	9,493.41	9,426.89	66.52	142.713			
11,900.00	6,902.10	6,486.63	6,466.17	146.80	28.29	-67.66	-383.56	5,333.16	9,592.40	9,525.74	66.66	143.909			
12,000.00	6,901.02	6,485.84	6,465.37	149.57	28.29	-67.63	-383.56	5,333.13	9,691.40	9,624.61	66.79	145.101			
12,100.00	6,899.94	6,485.05	6,464.59	152.34	28.28	-67.60	-383.56	5,333.10	9,790.43	9,723.50	66.92	146.291			
12,200.00	6,898.87	6,484.28	6,463.82	155.11	28.28	-67.57	-383.57	5,333.06	9,889.47	9,822.41	67.06	147.477			
12,300.00	6,897.79	6,483.53	6,463.07	157.89	28.28	-67.54	-383.57	5,333.03	9,988.53	9,921.34	67.19	148.661			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Kelly Farms #A-4-3NHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 174-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	97.16	-657.73	5,238.30	5,279.48					
100.00	100.00	130.30	130.30	3.28	3.29	97.16	-658.04	5,237.60	5,279.05	5,272.47	6.58	802.572		
200.00	200.00	228.85	228.84	3.34	3.34	97.17	-658.36	5,236.40	5,277.88	5,271.20	6.68	790.647		
300.00	299.98	297.34	297.33	3.44	3.41	45.30	-657.68	5,235.98	5,275.94	5,269.09	6.85	770.329		
400.00	399.84	364.00	363.96	3.61	3.49	45.37	-656.03	5,236.19	5,272.23	5,265.14	7.09	743.183		
500.00	499.45	435.59	435.48	3.81	3.61	45.46	-652.92	5,237.01	5,266.66	5,259.25	7.42	710.126		
600.00	598.70	516.44	516.14	4.06	3.77	45.59	-647.74	5,238.45	5,259.06	5,251.24	7.82	672.167		
700.00	697.47	621.75	621.13	4.35	4.03	45.77	-639.75	5,240.70	5,249.23	5,240.87	8.36	627.970		
800.00	795.62	709.78	708.84	4.66	4.27	46.00	-632.42	5,242.56	5,236.87	5,227.95	8.92	587.215		
900.00	893.06	803.01	801.63	5.01	4.56	46.28	-623.80	5,244.92	5,222.39	5,212.84	9.55	546.834		
961.44	952.51	873.65	871.88	5.25	4.80	46.49	-616.51	5,246.75	5,212.28	5,202.27	10.01	520.550		
1,000.00	989.71	922.18	920.07	5.40	4.97	46.53	-610.90	5,247.98	5,205.57	5,195.24	10.33	503.986		
1,100.00	1,086.20	1,031.89	1,028.96	5.81	5.38	46.62	-597.81	5,250.59	5,187.98	5,176.85	11.13	466.332		
1,200.00	1,182.69	1,202.81	1,198.50	6.24	6.07	46.74	-576.36	5,253.54	5,169.76	5,157.55	12.21	423.404		
1,300.00	1,279.18	1,258.92	1,254.14	6.69	6.31	46.78	-569.14	5,254.38	5,151.14	5,138.28	12.87	400.356		
1,400.00	1,375.67	1,364.82	1,359.14	7.15	6.76	46.86	-555.51	5,256.31	5,132.92	5,119.17	13.75	373.318		
1,500.00	1,472.15	1,704.16	1,696.07	7.62	8.24	47.17	-516.16	5,251.19	5,110.27	5,094.64	15.63	326.976		
1,600.00	1,568.64	1,761.00	1,752.58	8.10	8.49	47.23	-510.46	5,249.18	5,087.41	5,071.08	16.33	311.608		
1,700.00	1,665.13	1,807.52	1,798.85	8.59	8.69	47.28	-505.84	5,247.94	5,065.47	5,048.48	16.99	298.122		
1,800.00	1,761.62	1,853.00	1,844.13	9.08	8.89	47.34	-501.59	5,247.51	5,044.90	5,027.24	17.66	285.667		
1,900.00	1,858.11	1,901.13	1,892.03	9.58	9.11	47.39	-496.93	5,247.58	5,025.33	5,006.98	18.35	273.856		
2,000.00	1,954.60	2,000.00	2,092.16	10.08	9.56	47.60	-475.00	5,247.04	5,005.78	4,986.55	19.24	260.218		
2,100.00	2,051.09	2,181.65	2,170.81	10.59	10.39	47.68	-465.98	5,245.41	4,984.20	4,963.66	20.54	242.615		
2,200.00	2,147.57	2,222.00	2,210.88	11.09	10.58	47.71	-461.23	5,245.27	4,963.97	4,942.75	21.22	233.890		
2,300.00	2,244.06	2,375.66	2,363.62	11.61	11.29	47.88	-444.61	5,244.33	4,943.84	4,921.45	22.39	220.791		
2,400.00	2,340.55	2,475.97	2,463.28	12.12	11.76	47.98	-433.22	5,242.99	4,922.88	4,899.55	23.34	210.959		
2,500.00	2,437.04	2,538.78	2,525.72	12.64	12.05	48.05	-426.46	5,242.29	4,902.28	4,878.16	24.12	203.207		
2,600.00	2,533.53	2,599.30	2,585.85	13.15	12.34	48.11	-419.56	5,242.24	4,882.53	4,857.62	24.91	196.026		
2,700.00	2,630.02	2,743.23	2,728.75	13.67	13.03	48.25	-402.41	5,241.94	4,862.61	4,836.55	26.06	186.598		
2,800.00	2,726.50	2,876.68	2,861.27	14.19	13.67	48.38	-386.75	5,240.51	4,841.90	4,814.74	27.16	178.247		
2,900.00	2,822.99	2,975.52	2,959.51	14.72	14.13	48.49	-376.03	5,238.85	4,820.77	4,792.65	28.12	171.461		
3,000.00	2,919.48	3,048.00	3,031.51	15.24	14.48	48.57	-367.71	5,238.02	4,800.04	4,771.08	28.96	165.733		
3,100.00	3,015.97	3,136.86	3,119.78	15.76	14.90	48.66	-357.53	5,237.32	4,779.68	4,749.80	29.88	159.952		
3,200.00	3,112.46	3,183.60	3,166.23	16.29	15.13	48.71	-352.35	5,237.16	4,759.85	4,729.23	30.63	155.424		
3,300.00	3,208.95	3,237.98	3,220.23	16.81	15.39	48.77	-345.99	5,237.66	4,741.08	4,709.68	31.40	150.985		
3,400.00	3,305.44	3,355.91	3,337.47	17.34	15.95	48.90	-333.27	5,238.64	4,722.45	4,690.01	32.45	145.545		
3,500.00	3,401.92	3,441.11	3,422.27	17.87	16.35	49.01	-325.06	5,239.04	4,703.70	4,670.35	33.35	141.044		
3,600.00	3,498.41	3,528.04	3,508.75	18.40	16.76	49.11	-316.26	5,240.02	4,685.49	4,651.23	34.26	136.752		
3,700.00	3,594.90	3,673.95	3,653.83	18.93	17.45	49.28	-300.82	5,240.84	4,666.67	4,631.25	35.42	131.734		
3,800.00	3,691.39	3,715.28	3,694.96	19.46	17.65	49.34	-296.71	5,241.09	4,648.04	4,611.88	36.15	128.562		
3,900.00	3,787.88	3,762.00	3,741.38	19.99	17.87	49.39	-291.53	5,242.07	4,630.60	4,593.70	36.90	125.476		
4,000.00	3,884.37	3,858.57	3,837.22	20.52	18.34	49.48	-279.98	5,244.82	4,613.82	4,575.94	37.88	121.805		
4,100.00	3,980.85	4,001.66	3,979.14	21.05	19.04	49.62	-262.02	5,248.07	4,596.36	4,557.30	39.06	117.670		
4,200.00	4,077.34	4,109.03	4,085.77	21.58	19.56	49.73	-249.59	5,249.71	4,578.39	4,538.31	40.08	114.236		
4,300.00	4,173.83	4,229.74	4,205.88	22.11	20.13	49.89	-237.70	5,250.66	4,560.02	4,518.89	41.14	110.851		
4,390.25	4,260.91	4,297.00	4,272.80	22.59	20.45	49.98	-230.86	5,251.27	4,543.54	4,501.62	41.92	108.374		
4,400.00	4,270.32	4,297.00	4,272.80	22.64	20.45	49.95	-230.86	5,251.27	4,541.81	4,499.83	41.98	108.190		
4,500.00	4,367.33	4,364.39	4,339.80	23.16	20.77	49.77	-223.72	5,252.40	4,525.59	4,482.77	42.82	105.697		
4,600.00	4,465.13	4,490.43	4,465.16	23.65	21.37	49.65	-210.98	5,254.81	4,511.93	4,468.06	43.87	102.847		
4,700.00	4,563.60	4,661.80	4,635.98	24.12	22.15	49.57	-197.31	5,255.55	4,499.60	4,454.55	45.05	99.872		
4,800.00	4,662.61	4,738.47	4,712.42	24.56	22.50	49.43	-191.40	5,255.31	4,488.66	4,442.80	45.86	97.880		
4,900.00	4,762.05	4,801.33	4,775.09	24.98	22.79	49.31	-186.54	5,255.47	4,480.57	4,433.97	46.60	96.156		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Kelly Farms #A-4-3NHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 174-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,897.07	4,870.41	25.38	23.24	49.18	-177.63	5,256.67	4,475.40	4,427.95	47.45	94.320		
5,100.00	4,961.73	5,002.86	4,975.75	25.76	23.73	49.05	-167.98	5,257.66	4,472.26	4,423.94	48.32	92.547		
5,151.69	5,013.42	5,061.06	5,033.78	25.95	24.00	100.87	-163.53	5,258.00	4,471.50	4,422.72	48.77	91.682		
5,200.00	5,061.73	5,229.82	5,202.39	26.13	24.69	100.82	-158.37	5,254.72	4,470.09	4,420.56	49.53	90.242		
5,300.00	5,161.73	5,306.54	5,279.07	26.49	24.99	100.82	-157.73	5,252.19	4,466.69	4,416.47	50.22	88.935		
5,400.00	5,261.73	5,391.85	5,364.34	26.86	25.32	100.82	-157.49	5,249.71	4,463.78	4,412.84	50.94	87.633		
5,500.00	5,361.73	5,482.31	5,454.77	27.23	25.66	100.82	-157.26	5,247.12	4,460.94	4,409.27	51.67	86.342		
5,600.00	5,461.73	5,547.00	5,519.44	27.60	25.91	100.83	-157.42	5,245.68	4,458.77	4,406.45	52.32	85.222		
5,700.00	5,561.73	5,630.45	5,602.88	27.97	26.22	100.84	-157.83	5,244.28	4,457.20	4,404.17	53.03	84.056		
5,800.00	5,661.73	5,729.98	5,702.39	28.35	26.60	100.84	-158.24	5,242.77	4,455.79	4,402.00	53.78	82.845		
5,900.00	5,761.73	5,856.92	5,829.31	28.72	27.08	100.86	-158.82	5,240.34	4,453.98	4,399.35	54.63	81.533		
6,000.00	5,861.73	5,951.48	5,923.84	29.10	27.44	100.88	-159.87	5,238.17	4,451.94	4,396.56	55.37	80.400		
6,100.00	5,961.73	6,017.11	5,989.45	29.48	27.69	100.89	-160.91	5,236.85	4,450.31	4,394.28	56.03	79.420		
6,200.00	6,061.73	6,082.00	6,054.33	29.86	27.94	100.90	-161.06	5,236.58	4,449.81	4,393.11	56.70	78.482		
6,215.60	6,077.33	6,082.00	6,054.33	29.92	27.94	100.90	-161.06	5,236.58	4,449.78	4,393.01	56.77	78.384 CC, ES		
6,300.00	6,161.73	6,110.01	6,082.34	30.25	28.05	100.89	-160.92	5,236.84	4,450.37	4,393.14	57.24	77.752		
6,400.00	6,261.73	6,171.00	6,143.31	30.63	28.29	100.89	-161.06	5,238.18	4,452.38	4,394.50	57.88	76.920		
6,451.69	6,313.42	6,184.11	6,156.41	30.83	28.34	100.89	-161.14	5,238.58	4,453.78	4,395.63	58.15	76.595		
6,500.00	6,361.68	6,270.88	6,243.16	31.01	28.67	-166.60	-161.45	5,240.79	4,456.81	4,398.15	58.65	75.988		
6,550.00	6,411.34	6,260.00	6,232.28	31.20	28.63	-166.44	-161.43	5,240.55	4,463.86	4,405.06	58.80	75.917		
6,600.00	6,460.39	6,260.00	6,232.28	31.38	28.63	-166.20	-161.43	5,240.55	4,475.20	4,416.23	58.97	75.893 SF		
6,650.00	6,508.54	6,260.00	6,232.28	31.58	28.63	-165.84	-161.43	5,240.55	4,490.72	4,431.61	59.12	75.964		
6,700.00	6,555.48	6,260.00	6,232.28	31.78	28.63	-165.36	-161.43	5,240.55	4,510.30	4,451.05	59.25	76.126		
6,750.00	6,600.93	6,260.00	6,232.28	31.98	28.63	-164.75	-161.43	5,240.55	4,533.75	4,474.39	59.36	76.376		
6,800.00	6,644.61	6,260.00	6,232.28	32.20	28.63	-163.96	-161.43	5,240.55	4,560.88	4,501.42	59.46	76.710		
6,850.00	6,686.25	6,260.00	6,232.28	32.44	28.63	-162.97	-161.43	5,240.55	4,591.45	4,531.91	59.54	77.121		
6,900.00	6,725.58	6,260.00	6,232.28	32.68	28.63	-161.72	-161.43	5,240.55	4,625.21	4,565.61	59.60	77.603		
6,950.00	6,762.38	6,299.93	6,272.12	32.96	28.78	-160.32	-161.62	5,243.01	4,660.16	4,600.32	59.84	77.878		
7,000.00	6,796.41	6,302.90	6,275.08	33.25	28.80	-158.35	-161.64	5,243.32	4,699.19	4,639.29	59.90	78.452		
7,050.00	6,827.46	6,305.50	6,277.67	33.58	28.81	-155.78	-161.66	5,243.60	4,740.55	4,680.60	59.95	79.077		
7,100.00	6,855.34	6,307.74	6,279.89	33.93	28.81	-152.36	-161.68	5,243.86	4,783.95	4,723.96	59.99	79.746		
7,150.00	6,879.88	6,309.60	6,281.73	34.33	28.82	-147.67	-161.70	5,244.08	4,829.06	4,769.03	60.03	80.449		
7,200.00	6,900.93	6,349.00	6,320.63	34.76	28.97	-141.82	-162.17	5,250.28	4,877.12	4,816.88	60.24	80.959		
7,250.00	6,918.36	6,349.00	6,320.63	35.23	28.97	-132.50	-162.17	5,250.28	4,924.61	4,864.35	60.27	81.712		
7,300.00	6,932.05	6,349.00	6,320.63	35.74	28.97	-118.89	-162.17	5,250.28	4,972.91	4,912.61	60.30	82.475		
7,350.00	6,941.94	6,349.00	6,320.63	36.29	28.97	-100.20	-162.17	5,250.28	5,021.67	4,961.35	60.33	83.240		
7,400.00	6,947.94	6,349.00	6,320.63	36.87	28.97	-78.87	-162.17	5,250.28	5,070.61	5,010.25	60.36	84.000		
7,450.00	6,950.04	6,349.00	6,320.63	37.47	28.97	-60.05	-162.17	5,250.28	5,119.41	5,059.00	60.41	84.746		
7,458.56	6,950.00	6,349.00	6,320.63	37.58	28.97	-57.33	-162.17	5,250.28	5,127.73	5,067.31	60.42	84.873		
7,500.00	6,949.56	6,349.00	6,320.63	38.11	28.97	-57.33	-162.17	5,250.28	5,167.98	5,107.52	60.46	85.479		
7,600.00	6,948.48	6,349.00	6,320.63	39.51	28.97	-57.33	-162.17	5,250.28	5,265.20	5,204.63	60.57	86.933		
7,700.00	6,947.40	6,349.00	6,320.63	41.06	28.97	-57.33	-162.17	5,250.28	5,362.51	5,301.83	60.68	88.378		
7,800.00	6,946.32	6,308.74	6,280.89	42.74	28.82	-55.78	-161.69	5,243.98	5,458.19	5,397.58	60.61	90.054		
7,900.00	6,945.24	6,307.67	6,279.82	44.55	28.81	-55.73	-161.68	5,243.85	5,555.60	5,494.88	60.73	91.487		
8,000.00	6,944.16	6,306.63	6,278.78	46.46	28.81	-55.69	-161.67	5,243.73	5,653.11	5,592.26	60.84	92.911		
8,100.00	6,943.08	6,305.62	6,277.78	48.47	28.81	-55.66	-161.66	5,243.62	5,750.69	5,689.72	60.97	94.328		
8,200.00	6,942.01	6,304.64	6,276.80	50.55	28.80	-55.62	-161.65	5,243.51	5,848.35	5,787.27	61.09	95.737		
8,300.00	6,940.93	6,303.69	6,275.86	52.71	28.80	-55.58	-161.65	5,243.41	5,946.09	5,884.88	61.21	97.139		
8,400.00	6,939.85	6,302.77	6,274.95	54.93	28.80	-55.55	-161.64	5,243.31	6,043.90	5,982.57	61.34	98.535		
8,500.00	6,938.77	6,301.88	6,274.06	57.20	28.79	-55.51	-161.63	5,243.21	6,141.79	6,080.32	61.46	99.924		
8,600.00	6,937.69	6,301.01	6,273.20	59.53	28.79	-55.48	-161.63	5,243.12	6,239.73	6,178.14	61.59	101.308		
8,700.00	6,936.61	6,260.00	6,232.28	61.89	28.63	-53.96	-161.43	5,240.55	6,339.45	6,277.89	61.56	102.981		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 174-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	6,260.00	6,232.28	64.30	28.63	-53.96	-161.43	5,240.55	6,437.44	6,375.75	61.69	104.346		
8,900.00	6,934.46	6,260.00	6,232.28	66.74	28.63	-53.96	-161.43	5,240.55	6,535.50	6,473.68	61.83	105.706		
9,000.00	6,933.38	6,260.00	6,232.28	69.21	28.63	-53.96	-161.43	5,240.55	6,633.62	6,571.66	61.96	107.061		
9,100.00	6,932.30	6,260.00	6,232.28	71.71	28.63	-53.96	-161.43	5,240.55	6,731.79	6,669.70	62.09	108.411		
9,200.00	6,931.22	6,260.00	6,232.28	74.23	28.63	-53.96	-161.43	5,240.55	6,830.02	6,767.79	62.23	109.757		
9,300.00	6,930.14	6,260.00	6,232.28	76.78	28.63	-53.96	-161.43	5,240.55	6,928.29	6,865.93	62.36	111.099		
9,400.00	6,929.06	6,260.00	6,232.28	79.34	28.63	-53.96	-161.43	5,240.55	7,026.62	6,964.12	62.49	112.436		
9,500.00	6,927.99	6,260.00	6,232.28	81.93	28.63	-53.96	-161.43	5,240.55	7,124.99	7,062.36	62.63	113.770		
9,600.00	6,926.91	6,260.00	6,232.28	84.53	28.63	-53.96	-161.43	5,240.55	7,223.41	7,160.65	62.76	115.099		
9,700.00	6,925.83	6,260.00	6,232.28	87.14	28.63	-53.96	-161.43	5,240.55	7,321.86	7,258.97	62.89	116.425		
9,800.00	6,924.75	6,260.00	6,232.28	89.77	28.63	-53.96	-161.43	5,240.55	7,420.36	7,357.34	63.02	117.747		
9,900.00	6,923.67	6,260.00	6,232.28	92.41	28.63	-53.96	-161.43	5,240.55	7,518.90	7,455.75	63.15	119.065		
10,000.00	6,922.59	6,260.00	6,232.28	95.07	28.63	-53.96	-161.43	5,240.55	7,617.48	7,554.20	63.28	120.379		
10,100.00	6,921.51	6,260.00	6,232.28	97.73	28.63	-53.96	-161.43	5,240.55	7,716.10	7,652.69	63.41	121.690		
10,200.00	6,920.44	6,260.00	6,232.28	100.40	28.63	-53.96	-161.43	5,240.55	7,814.75	7,751.21	63.54	122.997		
10,300.00	6,919.36	6,260.00	6,232.28	103.08	28.63	-53.96	-161.43	5,240.55	7,913.43	7,849.77	63.66	124.301		
10,400.00	6,918.28	6,260.00	6,232.28	105.77	28.63	-53.96	-161.43	5,240.55	8,012.15	7,948.35	63.79	125.601		
10,500.00	6,917.20	6,260.00	6,232.28	108.47	28.63	-53.96	-161.43	5,240.55	8,110.89	8,046.98	63.92	126.898		
10,600.00	6,916.12	6,260.00	6,232.28	111.18	28.63	-53.96	-161.43	5,240.55	8,209.67	8,145.63	64.04	128.191		
10,700.00	6,915.04	6,260.00	6,232.28	113.89	28.63	-53.96	-161.43	5,240.55	8,308.48	8,244.31	64.17	129.481		
10,800.00	6,913.96	6,260.00	6,232.28	116.61	28.63	-53.96	-161.43	5,240.55	8,407.31	8,343.02	64.29	130.768		
10,900.00	6,912.89	6,260.00	6,232.28	119.33	28.63	-53.96	-161.43	5,240.55	8,506.18	8,441.76	64.42	132.051		
11,000.00	6,911.81	6,260.00	6,232.28	122.06	28.63	-53.96	-161.43	5,240.55	8,605.06	8,540.53	64.54	133.332		
11,100.00	6,910.73	6,260.00	6,232.28	124.79	28.63	-53.96	-161.43	5,240.55	8,703.98	8,639.32	64.66	134.608		
11,200.00	6,909.65	6,260.00	6,232.28	127.53	28.63	-53.96	-161.43	5,240.55	8,802.92	8,738.13	64.78	135.882		
11,300.00	6,908.57	6,260.00	6,232.28	130.27	28.63	-53.96	-161.43	5,240.55	8,901.88	8,836.98	64.91	137.152		
11,400.00	6,907.49	6,260.00	6,232.28	133.02	28.63	-53.96	-161.43	5,240.55	9,000.87	8,935.84	65.03	138.419		
11,500.00	6,906.41	6,260.00	6,232.28	135.77	28.63	-53.96	-161.43	5,240.55	9,099.87	9,034.73	65.15	139.683		
11,600.00	6,905.34	6,260.00	6,232.28	138.52	28.63	-53.96	-161.43	5,240.55	9,198.90	9,133.64	65.27	140.944		
11,700.00	6,904.26	6,260.00	6,232.28	141.28	28.63	-53.96	-161.43	5,240.55	9,297.95	9,232.57	65.39	142.201		
11,800.00	6,903.18	6,260.00	6,232.28	144.04	28.63	-53.96	-161.43	5,240.55	9,397.02	9,331.52	65.50	143.455		
11,900.00	6,902.10	6,260.00	6,232.28	146.80	28.63	-53.96	-161.43	5,240.55	9,496.11	9,430.49	65.62	144.706		
12,000.00	6,901.02	6,260.00	6,232.28	149.57	28.63	-53.96	-161.43	5,240.55	9,595.22	9,529.48	65.74	145.953		
12,100.00	6,899.94	6,260.00	6,232.28	152.34	28.63	-53.96	-161.43	5,240.55	9,694.35	9,628.49	65.86	147.198		
12,200.00	6,898.87	6,260.00	6,232.28	155.11	28.63	-53.96	-161.43	5,240.55	9,793.49	9,727.51	65.98	148.439		
12,300.00	6,897.79	6,260.00	6,232.28	157.89	28.63	-53.96	-161.43	5,240.55	9,892.65	9,826.56	66.09	149.677		
12,400.00	6,896.71	6,260.00	6,232.28	160.66	28.63	-53.96	-161.43	5,240.55	9,991.83	9,925.62	66.21	150.911		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - LA POUDRE SOUTH #4 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	33.00	33.00	3.28	3.33	-72.80	1,819.66	-5,878.27	6,153.47						
100.00	100.00	133.00	133.00	3.28	4.38	-72.80	1,819.66	-5,878.27	6,153.47	6,145.81	7.66	803.196			
200.00	200.00	233.00	233.00	3.34	7.18	-72.80	1,819.66	-5,878.27	6,153.47	6,142.95	10.52	585.021			
300.00	299.98	332.98	332.98	3.44	10.41	-124.69	1,819.66	-5,878.27	6,154.46	6,140.61	13.85	444.267			
400.00	399.84	432.84	432.84	3.61	13.76	-124.68	1,819.66	-5,878.27	6,157.44	6,140.08	17.36	354.630			
500.00	499.45	532.45	532.45	3.81	17.16	-124.66	1,819.66	-5,878.27	6,162.42	6,141.45	20.96	293.952			
600.00	598.70	631.70	631.70	4.06	20.57	-124.64	1,819.66	-5,878.27	6,169.38	6,144.76	24.62	250.583			
700.00	697.47	730.47	730.47	4.35	23.98	-124.61	1,819.66	-5,878.27	6,178.35	6,150.03	28.31	218.231			
800.00	795.62	828.62	828.62	4.66	27.38	-124.57	1,819.66	-5,878.27	6,189.32	6,157.29	32.02	193.273			
900.00	893.06	926.06	926.06	5.01	30.76	-124.53	1,819.66	-5,878.27	6,202.30	6,166.55	35.75	173.499			
961.44	952.51	985.51	985.51	5.25	32.82	-124.49	1,819.66	-5,878.27	6,211.28	6,173.24	38.04	163.284			
1,000.00	989.71	1,022.71	1,022.71	5.40	34.12	-124.57	1,819.66	-5,878.27	6,217.16	6,177.68	39.48	157.481			
1,100.00	1,086.20	1,119.20	1,119.20	5.81	37.47	-124.76	1,819.66	-5,878.27	6,232.46	6,189.24	43.23	144.185			
1,200.00	1,182.69	1,215.69	1,215.69	6.24	40.83	-124.96	1,819.66	-5,878.27	6,247.84	6,200.84	46.99	132.955			
1,300.00	1,279.18	1,312.18	1,312.18	6.69	44.18	-125.15	1,819.66	-5,878.27	6,263.28	6,212.51	50.77	123.355			
1,400.00	1,375.67	1,408.67	1,408.67	7.15	47.54	-125.34	1,819.66	-5,878.27	6,278.80	6,224.23	54.57	115.059			
1,500.00	1,472.15	1,505.15	1,505.15	7.62	50.91	-125.53	1,819.66	-5,878.27	6,294.39	6,236.02	58.38	107.824			
1,600.00	1,568.64	1,601.64	1,601.64	8.10	54.27	-125.72	1,819.66	-5,878.27	6,310.05	6,247.86	62.19	101.462			
1,700.00	1,665.13	1,701.87	1,698.13	8.59	57.76	-125.91	1,819.66	-5,878.27	6,325.79	6,259.64	66.14	95.637			
1,800.00	1,761.62	1,805.38	1,794.62	9.08	61.37	-126.10	1,819.66	-5,878.27	6,341.59	6,271.37	70.22	90.314			
1,900.00	1,858.11	1,908.89	1,891.11	9.58	64.98	-126.28	1,819.66	-5,878.27	6,357.46	6,283.16	74.30	85.570			
2,000.00	1,954.60	1,987.60	1,987.60	10.08	67.72	-126.47	1,819.66	-5,878.27	6,373.40	6,295.88	77.51	82.224			
2,100.00	2,051.09	2,084.09	2,084.09	10.59	71.09	-126.65	1,819.66	-5,878.27	6,389.40	6,308.05	81.35	78.538			
2,200.00	2,147.57	2,180.57	2,180.57	11.09	74.45	-126.84	1,819.66	-5,878.27	6,405.48	6,320.28	85.20	75.183			
2,300.00	2,244.06	2,277.06	2,277.06	11.61	77.82	-127.02	1,819.66	-5,878.27	6,421.62	6,332.58	89.05	72.116			
2,400.00	2,340.55	2,373.55	2,373.55	12.12	81.18	-127.20	1,819.66	-5,878.27	6,437.83	6,344.94	92.89	69.303			
2,500.00	2,437.04	2,470.04	2,470.04	12.64	84.55	-127.39	1,819.66	-5,878.27	6,454.11	6,357.36	96.75	66.712			
2,600.00	2,533.53	2,566.53	2,566.53	13.15	87.91	-127.57	1,819.66	-5,878.27	6,470.45	6,369.85	100.60	64.320			
2,700.00	2,630.02	2,663.02	2,663.02	13.67	91.28	-127.75	1,819.66	-5,878.27	6,486.85	6,382.40	104.45	62.103			
2,800.00	2,726.50	2,759.50	2,759.50	14.19	94.65	-127.93	1,819.66	-5,878.27	6,503.33	6,395.02	108.31	60.045			
2,900.00	2,822.99	2,855.99	2,855.99	14.72	98.01	-128.10	1,819.66	-5,878.27	6,519.86	6,407.70	112.16	58.127			
3,000.00	2,919.48	2,952.48	2,952.48	15.24	101.38	-128.28	1,819.66	-5,878.27	6,536.46	6,420.44	116.02	56.338			
3,100.00	3,015.97	3,048.97	3,048.97	15.76	104.75	-128.46	1,819.66	-5,878.27	6,553.12	6,433.24	119.88	54.664			
3,200.00	3,112.46	3,145.46	3,145.46	16.29	108.11	-128.63	1,819.66	-5,878.27	6,569.85	6,446.11	123.74	53.094			
3,300.00	3,208.95	3,241.95	3,241.95	16.81	111.48	-128.81	1,819.66	-5,878.27	6,586.63	6,459.03	127.60	51.619			
3,400.00	3,305.44	3,338.44	3,338.44	17.34	114.85	-128.98	1,819.66	-5,878.27	6,603.48	6,472.02	131.46	50.232			
3,500.00	3,401.92	3,434.92	3,434.92	17.87	118.21	-129.16	1,819.66	-5,878.27	6,620.39	6,485.07	135.32	48.924			
3,600.00	3,498.41	3,531.41	3,531.41	18.40	121.58	-129.33	1,819.66	-5,878.27	6,637.37	6,498.18	139.18	47.688			
3,700.00	3,594.90	3,627.90	3,627.90	18.93	124.95	-129.50	1,819.66	-5,878.27	6,654.40	6,511.35	143.04	46.520			
3,800.00	3,691.39	3,724.39	3,724.39	19.46	128.32	-129.67	1,819.66	-5,878.27	6,671.49	6,524.58	146.91	45.414			
3,900.00	3,787.88	3,820.88	3,820.88	19.99	131.68	-129.84	1,819.66	-5,878.27	6,688.64	6,537.87	150.77	44.364			
4,000.00	3,884.37	3,917.37	3,917.37	20.52	135.05	-130.01	1,819.66	-5,878.27	6,705.85	6,551.22	154.63	43.367			
4,100.00	3,980.85	4,013.85	4,013.85	21.05	138.42	-130.18	1,819.66	-5,878.27	6,723.12	6,564.63	158.49	42.419			
4,200.00	4,077.34	4,110.34	4,110.34	21.58	141.78	-130.34	1,819.66	-5,878.27	6,740.45	6,578.09	162.35	41.517			
4,300.00	4,173.83	4,206.83	4,206.83	22.11	145.15	-130.51	1,819.66	-5,878.27	6,757.83	6,591.61	166.22	40.657			
4,390.25	4,260.91	4,306.09	4,293.91	22.59	148.62	-130.66	1,819.66	-5,878.27	6,773.57	6,603.44	170.13	39.815			
4,400.00	4,270.32	4,303.32	4,303.32	22.64	148.52	-130.70	1,819.66	-5,878.27	6,775.26	6,605.18	170.08	39.836			
4,500.00	4,367.33	4,400.33	4,400.33	23.16	151.91	-131.10	1,819.66	-5,878.27	6,791.41	6,617.46	173.95	39.042			
4,600.00	4,465.13	4,501.87	4,498.13	23.65	155.45	-131.44	1,819.66	-5,878.27	6,805.34	6,627.38	177.96	38.241			
4,700.00	4,563.60	4,603.40	4,596.60	24.12	158.99	-131.73	1,819.66	-5,878.27	6,817.00	6,635.05	181.96	37.465			
4,800.00	4,662.61	4,704.39	4,695.61	24.56	162.52	-131.95	1,819.66	-5,878.27	6,826.37	6,640.46	185.91	36.718			
4,900.00	4,762.05	4,804.95	4,795.05	24.98	166.03	-132.12	1,819.66	-5,878.27	6,833.44	6,643.59	189.84	35.995			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - LA POUDRE SOUTH #4 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2° Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,905.20	4,894.80	25.38	169.53	-132.24	1,819.66	-5,878.27	6,838.17	6,644.42	193.74	35.295		
5,100.00	4,961.73	5,005.27	4,994.73	25.76	173.02	-132.29	1,819.66	-5,878.27	6,840.55	6,642.93	197.62	34.614		
5,151.69	5,013.42	5,046.42	5,046.42	25.95	174.46	-80.41	1,819.66	-5,878.27	6,840.87	6,641.61	199.25	34.332		
5,200.00	5,061.73	5,105.27	5,094.73	26.13	176.51	-80.41	1,819.66	-5,878.27	6,840.87	6,639.38	201.49	33.952		
5,300.00	5,161.73	5,205.27	5,194.73	26.49	180.00	-80.41	1,819.66	-5,878.27	6,840.87	6,635.52	205.35	33.314		
5,400.00	5,261.73	5,305.27	5,294.73	26.86	183.49	-80.41	1,819.66	-5,878.27	6,840.87	6,631.66	209.21	32.699		
5,500.00	5,361.73	5,405.27	5,394.73	27.23	186.98	-80.41	1,819.66	-5,878.27	6,840.87	6,627.79	213.08	32.105		
5,600.00	5,461.73	5,505.27	5,494.73	27.60	190.47	-80.41	1,819.66	-5,878.27	6,840.87	6,623.93	216.94	31.533		
5,700.00	5,561.73	5,605.27	5,594.73	27.97	193.96	-80.41	1,819.66	-5,878.27	6,840.87	6,620.06	220.81	30.981		
5,800.00	5,661.73	5,705.27	5,694.73	28.35	197.45	-80.41	1,819.66	-5,878.27	6,840.87	6,616.19	224.68	30.447		
5,900.00	5,761.73	5,805.27	5,794.73	28.72	200.94	-80.41	1,819.66	-5,878.27	6,840.87	6,612.31	228.55	29.931		
6,000.00	5,861.73	5,905.27	5,894.73	29.10	204.43	-80.41	1,819.66	-5,878.27	6,840.87	6,608.44	232.43	29.432		
6,100.00	5,961.73	6,005.27	5,994.73	29.48	207.92	-80.41	1,819.66	-5,878.27	6,840.87	6,604.56	236.30	28.949		
6,200.00	6,061.73	6,105.27	6,094.73	29.86	211.42	-80.41	1,819.66	-5,878.27	6,840.87	6,600.69	240.18	28.482		
6,300.00	6,161.73	6,205.27	6,194.73	30.25	214.91	-80.41	1,819.66	-5,878.27	6,840.87	6,596.81	244.06	28.029		
6,400.00	6,261.73	6,305.27	6,294.73	30.63	218.40	-80.41	1,819.66	-5,878.27	6,840.87	6,592.93	247.94	27.591		
6,451.69	6,313.42	6,346.42	6,346.42	30.83	219.83	-80.41	1,819.66	-5,878.27	6,840.87	6,591.29	249.58	27.410		
6,500.00	6,361.68	6,405.32	6,394.68	31.01	221.89	12.09	1,819.66	-5,878.27	6,839.08	6,587.26	251.82	27.159		
6,550.00	6,411.34	6,444.34	6,444.34	31.20	223.25	12.20	1,819.66	-5,878.27	6,833.46	6,580.11	253.35	26.972		
6,600.00	6,460.39	6,506.61	6,493.39	31.38	225.42	12.41	1,819.66	-5,878.27	6,824.05	6,568.36	255.69	26.689		
6,650.00	6,508.54	6,541.54	6,541.54	31.58	226.64	12.70	1,819.66	-5,878.27	6,810.91	6,553.84	257.06	26.495		
6,700.00	6,555.48	6,588.48	6,588.48	31.78	228.28	13.09	1,819.66	-5,878.27	6,794.11	6,535.27	258.84	26.248		
6,750.00	6,600.93	6,633.93	6,633.93	31.98	229.87	13.59	1,819.66	-5,878.27	6,773.77	6,513.21	260.56	25.997		
6,800.00	6,644.61	6,677.61	6,677.61	32.20	231.39	14.22	1,819.66	-5,878.27	6,750.01	6,487.80	262.21	25.743		
6,850.00	6,686.25	6,719.25	6,719.25	32.44	232.85	15.01	1,819.66	-5,878.27	6,722.98	6,459.21	263.77	25.488		
6,900.00	6,725.58	6,758.58	6,758.58	32.68	234.22	15.99	1,819.66	-5,878.27	6,692.85	6,427.60	265.24	25.233		
6,950.00	6,762.38	6,804.62	6,795.38	32.96	235.83	17.21	1,819.66	-5,878.27	6,659.79	6,392.85	266.94	24.949		
7,000.00	6,796.41	6,829.41	6,829.41	33.25	236.69	18.72	1,819.66	-5,878.27	6,624.03	6,356.15	267.89	24.727		
7,050.00	6,827.46	6,860.46	6,860.46	33.58	237.78	20.63	1,819.66	-5,878.27	6,585.79	6,316.74	269.05	24.478		
7,100.00	6,855.34	6,888.34	6,888.34	33.93	238.75	23.08	1,819.66	-5,878.27	6,545.29	6,275.21	270.09	24.234		
7,150.00	6,879.88	6,912.88	6,912.88	34.33	239.61	26.26	1,819.66	-5,878.27	6,502.80	6,231.79	271.01	23.995		
7,200.00	6,900.93	6,933.93	6,933.93	34.76	240.34	30.49	1,819.66	-5,878.27	6,458.58	6,186.78	271.80	23.762		
7,250.00	6,918.36	6,951.36	6,951.36	35.23	240.95	36.25	1,819.66	-5,878.27	6,412.89	6,140.43	272.47	23.537		
7,300.00	6,932.05	6,965.05	6,965.05	35.74	241.43	44.28	1,819.66	-5,878.27	6,366.03	6,093.03	273.00	23.319		
7,350.00	6,941.94	6,974.94	6,974.94	36.29	241.77	55.57	1,819.66	-5,878.27	6,318.29	6,044.89	273.40	23.110		
7,400.00	6,947.94	6,980.94	6,980.94	36.87	241.98	70.88	1,819.66	-5,878.27	6,269.96	5,996.29	273.67	22.911		
7,450.00	6,950.04	6,983.04	6,983.04	37.47	242.06	89.35	1,819.66	-5,878.27	6,221.34	5,947.53	273.81	22.722		
7,458.56	6,950.00	6,983.00	6,983.00	37.58	242.05	92.61	1,819.66	-5,878.27	6,213.01	5,939.19	273.82	22.690		
7,500.00	6,949.56	6,982.56	6,982.56	38.11	242.04	92.60	1,819.66	-5,878.27	6,172.69	5,898.83	273.86	22.540		
7,600.00	6,948.48	6,981.48	6,981.48	39.51	242.00	92.55	1,819.66	-5,878.27	6,075.45	5,801.48	273.97	22.175		
7,700.00	6,947.40	6,980.40	6,980.40	41.06	241.96	92.51	1,819.66	-5,878.27	5,978.31	5,704.20	274.11	21.810		
7,800.00	6,946.32	6,979.32	6,979.32	42.74	241.93	92.47	1,819.66	-5,878.27	5,881.26	5,606.98	274.27	21.443		
7,900.00	6,945.24	6,978.24	6,978.24	44.55	241.89	92.42	1,819.66	-5,878.27	5,784.31	5,509.85	274.46	21.075		
8,000.00	6,944.16	6,977.16	6,977.16	46.46	241.85	92.38	1,819.66	-5,878.27	5,687.46	5,412.79	274.67	20.706		
8,100.00	6,943.08	6,976.08	6,976.08	48.47	241.81	92.34	1,819.66	-5,878.27	5,590.73	5,315.81	274.92	20.336		
8,200.00	6,942.01	6,975.01	6,975.01	50.55	241.77	92.29	1,819.66	-5,878.27	5,494.11	5,218.91	275.19	19.964		
8,300.00	6,940.93	6,973.93	6,973.93	52.71	241.74	92.25	1,819.66	-5,878.27	5,397.61	5,122.11	275.50	19.592		
8,400.00	6,939.85	6,972.85	6,972.85	54.93	241.70	92.21	1,819.66	-5,878.27	5,301.25	5,025.40	275.85	19.218		
8,500.00	6,938.77	6,971.77	6,971.77	57.20	241.66	92.16	1,819.66	-5,878.27	5,205.02	4,928.79	276.23	18.843		
8,600.00	6,937.69	6,970.69	6,970.69	59.53	241.62	92.12	1,819.66	-5,878.27	5,108.94	4,832.28	276.66	18.467		
8,700.00	6,936.61	6,969.61	6,969.61	61.89	241.59	92.08	1,819.66	-5,878.27	5,013.01	4,735.88	277.12	18.089		
8,800.00	6,935.54	6,968.54	6,968.54	64.30	241.55	92.04	1,819.66	-5,878.27	4,917.24	4,639.60	277.64	17.711		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - LA POUDRE SOUTH #4 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2" Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	6,934.46	6,967.46	6,967.46	66.74	241.51	91.99	1,819.66	-5,878.27	4,821.64	4,543.44	278.20	17.332		
9,000.00	6,933.38	6,966.38	6,966.38	69.21	241.47	91.95	1,819.66	-5,878.27	4,726.23	4,447.41	278.81	16.951		
9,100.00	6,932.30	6,965.30	6,965.30	71.71	241.44	91.91	1,819.66	-5,878.27	4,631.01	4,351.52	279.48	16.570		
9,200.00	6,931.22	6,964.22	6,964.22	74.23	241.40	91.86	1,819.66	-5,878.27	4,535.99	4,255.78	280.21	16.188		
9,300.00	6,930.14	6,963.14	6,963.14	76.78	241.36	91.82	1,819.66	-5,878.27	4,441.19	4,160.20	281.00	15.805		
9,400.00	6,929.06	6,962.06	6,962.06	79.34	241.32	91.78	1,819.66	-5,878.27	4,346.63	4,064.78	281.85	15.422		
9,500.00	6,927.99	6,960.99	6,960.99	81.93	241.29	91.73	1,819.66	-5,878.27	4,252.31	3,969.54	282.78	15.038		
9,600.00	6,926.91	6,959.91	6,959.91	84.53	241.25	91.69	1,819.66	-5,878.27	4,158.26	3,874.49	283.77	14.653		
9,700.00	6,925.83	6,958.83	6,958.83	87.14	241.21	91.65	1,819.66	-5,878.27	4,064.50	3,779.65	284.85	14.269		
9,800.00	6,924.75	6,957.75	6,957.75	89.77	241.17	91.60	1,819.66	-5,878.27	3,971.03	3,685.02	286.01	13.884		
9,900.00	6,923.67	6,956.67	6,956.67	92.41	241.13	91.56	1,819.66	-5,878.27	3,877.90	3,590.64	287.25	13.500		
10,000.00	6,922.59	6,955.59	6,955.59	95.07	241.10	91.52	1,819.66	-5,878.27	3,785.11	3,496.51	288.59	13.116		
10,100.00	6,921.51	6,954.51	6,954.51	97.73	241.06	91.47	1,819.66	-5,878.27	3,692.70	3,402.66	290.03	12.732		
10,200.00	6,920.44	6,953.44	6,953.44	100.40	241.02	91.43	1,819.66	-5,878.27	3,600.69	3,309.12	291.58	12.349		
10,300.00	6,919.36	6,952.36	6,952.36	103.08	240.98	91.39	1,819.66	-5,878.27	3,509.12	3,215.89	293.23	11.967		
10,400.00	6,918.28	6,951.28	6,951.28	105.77	240.95	91.34	1,819.66	-5,878.27	3,418.03	3,123.02	295.00	11.586		
10,500.00	6,917.20	6,950.20	6,950.20	108.47	240.91	91.30	1,819.66	-5,878.27	3,327.44	3,030.54	296.90	11.207		
10,600.00	6,916.12	6,949.12	6,949.12	111.18	240.87	91.26	1,819.66	-5,878.27	3,237.41	2,938.47	298.94	10.830		
10,700.00	6,915.04	6,948.04	6,948.04	113.89	240.83	91.21	1,819.66	-5,878.27	3,147.98	2,846.86	301.11	10.454		
10,800.00	6,913.96	6,946.96	6,946.96	116.61	240.80	91.17	1,819.66	-5,878.27	3,059.20	2,755.76	303.44	10.082		
10,900.00	6,912.89	6,945.89	6,945.89	119.33	240.76	91.13	1,819.66	-5,878.27	2,971.14	2,665.21	305.93	9.712		
11,000.00	6,911.81	6,944.81	6,944.81	122.06	240.72	91.08	1,819.66	-5,878.27	2,883.85	2,575.26	308.59	9.345		
11,100.00	6,910.73	6,943.73	6,943.73	124.79	240.68	91.04	1,819.66	-5,878.27	2,797.42	2,485.99	311.44	8.982		
11,200.00	6,909.65	6,942.65	6,942.65	127.53	240.65	91.00	1,819.66	-5,878.27	2,711.92	2,397.45	314.47	8.624		
11,300.00	6,908.57	6,941.57	6,941.57	130.27	240.61	90.95	1,819.66	-5,878.27	2,627.44	2,309.72	317.72	8.270		
11,400.00	6,907.49	6,940.49	6,940.49	133.02	240.57	90.91	1,819.66	-5,878.27	2,544.09	2,222.91	321.18	7.921		
11,500.00	6,906.41	6,939.41	6,939.41	135.77	240.53	90.87	1,819.66	-5,878.27	2,461.97	2,137.11	324.87	7.578		
11,600.00	6,905.34	6,938.34	6,938.34	138.52	240.49	90.82	1,819.66	-5,878.27	2,381.23	2,052.43	328.80	7.242		
11,700.00	6,904.26	6,937.26	6,937.26	141.28	240.46	90.78	1,819.66	-5,878.27	2,302.00	1,969.01	332.99	6.913		
11,800.00	6,903.18	6,936.18	6,936.18	144.04	240.42	90.74	1,819.66	-5,878.27	2,224.43	1,887.00	337.44	6.592		
11,900.00	6,902.10	6,935.10	6,935.10	146.80	240.38	90.69	1,819.66	-5,878.27	2,148.73	1,806.57	342.16	6.280		
12,000.00	6,901.02	6,934.02	6,934.02	149.57	240.34	90.65	1,819.66	-5,878.27	2,075.08	1,727.92	347.16	5.977		
12,100.00	6,899.94	6,932.94	6,932.94	152.34	240.31	90.61	1,819.66	-5,878.27	2,003.72	1,651.28	352.44	5.685		
12,200.00	6,898.87	6,931.87	6,931.87	155.11	240.27	90.56	1,819.66	-5,878.27	1,934.89	1,576.90	357.99	5.405		
12,300.00	6,897.79	6,930.79	6,930.79	157.89	240.23	90.52	1,819.66	-5,878.27	1,868.88	1,505.08	363.80	5.137		
12,400.00	6,896.71	6,929.71	6,929.71	160.66	240.19	90.48	1,819.66	-5,878.27	1,806.00	1,436.15	369.85	4.883		
12,500.00	6,895.63	6,928.63	6,928.63	163.44	240.16	90.44	1,819.66	-5,878.27	1,746.58	1,370.48	376.10	4.644		
12,600.00	6,894.55	6,927.55	6,927.55	166.22	240.12	90.39	1,819.66	-5,878.27	1,690.99	1,308.48	382.51	4.421		
12,700.00	6,893.47	6,926.47	6,926.47	169.00	240.08	90.35	1,819.66	-5,878.27	1,639.62	1,250.61	389.01	4.215		
12,800.00	6,892.39	6,925.39	6,925.39	171.79	240.04	90.31	1,819.66	-5,878.27	1,592.88	1,197.37	395.51	4.027		
12,900.00	6,891.32	6,924.32	6,924.32	174.57	240.01	90.26	1,819.66	-5,878.27	1,551.18	1,149.27	401.91	3.859		
13,000.00	6,890.24	6,923.24	6,923.24	177.36	239.97	90.22	1,819.66	-5,878.27	1,514.95	1,106.85	408.10	3.712		
13,100.00	6,889.16	6,922.16	6,922.16	180.15	239.93	90.18	1,819.66	-5,878.27	1,484.58	1,070.64	413.93	3.587		
13,200.00	6,888.08	6,921.08	6,921.08	182.94	239.89	90.13	1,819.66	-5,878.27	1,460.43	1,041.15	419.28	3.483		
13,300.00	6,887.00	6,920.00	6,920.00	185.74	239.85	90.09	1,819.66	-5,878.27	1,442.83	1,018.83	424.00	3.403		
13,400.00	6,885.92	6,918.92	6,918.92	188.53	239.82	90.05	1,819.66	-5,878.27	1,432.01	1,004.04	427.97	3.346		
13,500.00	6,884.84	6,917.84	6,917.84	191.32	239.78	90.00	1,819.66	-5,878.27	1,428.12	997.02	431.10	3.313		
13,505.56	6,884.78	6,917.78	6,917.78	191.48	239.78	90.00	1,819.66	-5,878.27	1,428.11	996.86	431.25	3.312 CC, ES		
13,600.00	6,883.77	6,916.77	6,916.77	194.12	239.74	89.96	1,819.66	-5,878.27	1,431.23	997.90	433.33	3.303 SF		
13,700.00	6,882.69	6,915.69	6,915.69	196.92	239.70	89.92	1,819.66	-5,878.27	1,441.29	1,006.65	434.63	3.316		
13,800.00	6,881.61	6,914.61	6,914.61	199.72	239.67	89.87	1,819.66	-5,878.27	1,458.14	1,023.12	435.03	3.352		
13,900.00	6,880.53	6,913.53	6,913.53	202.52	239.63	89.83	1,819.66	-5,878.27	1,481.58	1,047.01	434.57	3.409		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - LA POUDRE SOUTH #4 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2° Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,879.45	6,912.45	6,912.45	205.32	239.59	89.79	1,819.66	-5,878.27	1,511.27	1,077.93	433.34	3.487			
14,100.00	6,878.37	6,911.37	6,911.37	208.12	239.55	89.74	1,819.66	-5,878.27	1,546.87	1,115.42	431.45	3.585			
14,200.00	6,877.29	6,910.29	6,910.29	210.92	239.52	89.70	1,819.66	-5,878.27	1,587.98	1,158.97	429.01	3.702			
14,300.00	6,876.22	6,909.22	6,909.22	213.73	239.48	89.66	1,819.66	-5,878.27	1,634.18	1,208.06	426.12	3.835			
14,400.00	6,875.14	6,908.14	6,908.14	216.53	239.44	89.61	1,819.66	-5,878.27	1,685.06	1,262.15	422.91	3.984			
14,500.00	6,874.06	6,907.06	6,907.06	219.34	239.40	89.57	1,819.66	-5,878.27	1,740.20	1,320.75	419.45	4.149			
14,600.00	6,872.98	6,905.98	6,905.98	222.15	239.37	89.53	1,819.66	-5,878.27	1,799.21	1,383.37	415.84	4.327			
14,700.00	6,871.90	6,904.90	6,904.90	224.95	239.33	89.48	1,819.66	-5,878.27	1,861.72	1,449.57	412.15	4.517			
14,800.00	6,870.82	6,903.82	6,903.82	227.76	239.29	89.44	1,819.66	-5,878.27	1,927.40	1,518.96	408.44	4.719			
14,900.00	6,869.75	6,902.75	6,902.75	230.57	239.25	89.40	1,819.66	-5,878.27	1,995.93	1,591.18	404.75	4.931			
15,000.00	6,868.67	6,901.67	6,901.67	233.38	239.21	89.35	1,819.66	-5,878.27	2,067.02	1,665.91	401.11	5.153			
15,100.00	6,867.59	6,900.59	6,900.59	236.19	239.18	89.31	1,819.66	-5,878.27	2,140.43	1,742.87	397.55	5.384			
15,200.00	6,866.51	6,900.49	6,899.51	239.00	239.17	89.27	1,819.66	-5,878.27	2,215.92	1,821.78	394.13	5.622			
15,300.00	6,865.43	6,901.57	6,898.43	241.81	239.21	89.22	1,819.66	-5,878.27	2,293.28	1,902.41	390.87	5.867			
15,400.00	6,864.35	6,902.65	6,897.35	244.63	239.25	89.18	1,819.66	-5,878.27	2,372.34	1,984.61	387.72	6.119			
15,500.00	6,863.27	6,903.73	6,896.27	247.44	239.29	89.14	1,819.66	-5,878.27	2,452.92	2,068.22	384.70	6.376			
15,600.00	6,862.20	6,904.80	6,895.20	250.25	239.32	89.09	1,819.66	-5,878.27	2,534.89	2,153.08	381.81	6.639			
15,618.10	6,862.00	6,905.00	6,895.00	250.76	239.33	89.09	1,819.66	-5,878.27	2,549.86	2,168.56	381.30	6.687			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Orr 36C-32-M - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 20-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	15,762.76	7,060.91	3.28	285.63	-1.38	1,512.39	-36.44	7,266.14						
100.00	100.00	15,762.72	7,060.91	3.28	285.63	-1.38	1,512.39	-36.48	7,168.36	7,052.39	115.97	61.813			
200.00	200.00	15,762.68	7,060.91	3.34	285.62	-1.38	1,512.38	-36.52	7,070.65	6,954.34	116.30	60.794			
300.00	299.98	15,763.74	7,060.91	3.44	285.66	-61.22	1,512.41	-35.46	6,972.79	6,856.14	116.65	59.775			
400.00	399.84	15,767.01	7,060.91	3.61	285.77	-70.39	1,512.50	-32.20	6,874.65	6,757.66	117.00	58.760			
500.00	499.45	15,772.47	7,060.91	3.81	285.95	-80.53	1,512.65	-26.73	6,776.35	6,659.01	117.33	57.752			
600.00	598.70	15,780.15	7,060.90	4.06	286.20	-91.13	1,512.88	-19.06	6,677.98	6,560.31	117.66	56.755			
700.00	697.47	15,790.04	7,060.90	4.35	286.52	-101.50	1,513.18	-9.18	6,579.65	6,461.67	117.98	55.769			
800.00	795.62	15,802.15	7,060.89	4.66	286.92	-111.04	1,513.57	2.92	6,481.49	6,363.20	118.29	54.795			
900.00	893.06	15,817.30	7,060.88	5.01	287.42	-119.41	1,514.10	18.07	6,383.59	6,265.01	118.59	53.831			
961.44	952.51	15,830.51	7,060.88	5.25	287.85	-123.91	1,514.56	31.27	6,323.63	6,204.83	118.80	53.230			
1,000.00	989.71	15,839.13	7,060.88	5.40	288.14	-123.80	1,514.85	39.89	6,286.04	6,167.11	118.93	52.854			
1,100.00	1,086.20	15,861.50	7,060.88	5.81	288.87	-123.50	1,515.56	62.25	6,188.57	6,069.28	119.29	51.878			
1,200.00	1,182.69	15,883.87	7,060.89	6.24	289.60	-123.20	1,516.22	84.61	6,091.11	5,971.45	119.66	50.903			
1,300.00	1,279.18	15,906.24	7,060.91	6.69	290.34	-122.89	1,516.83	106.96	5,993.65	5,873.61	120.04	49.930			
1,400.00	1,375.67	15,928.60	7,060.93	7.15	291.07	-122.58	1,517.38	129.32	5,896.19	5,775.76	120.43	48.959			
1,500.00	1,472.15	15,950.95	7,060.97	7.62	291.81	-122.26	1,517.87	151.67	5,798.74	5,677.91	120.83	47.990			
1,600.00	1,568.64	15,968.84	7,060.99	8.10	292.40	-121.99	1,518.33	169.55	5,701.31	5,580.12	121.19	47.045			
1,700.00	1,665.13	15,988.32	7,061.01	8.59	293.04	-121.69	1,518.85	189.02	5,603.89	5,482.31	121.58	46.092			
1,800.00	1,761.62	16,007.82	7,061.03	9.08	293.68	-121.38	1,519.42	208.51	5,506.49	5,384.50	121.99	45.139			
1,900.00	1,858.11	16,027.34	7,061.04	9.58	294.32	-121.05	1,520.02	228.02	5,409.11	5,286.69	122.42	44.186			
2,000.00	1,954.60	16,049.87	7,061.06	10.08	295.06	-120.67	1,520.75	250.55	5,311.74	5,188.84	122.90	43.219			
2,100.00	2,051.09	16,073.56	7,061.06	10.59	295.84	-120.25	1,521.48	274.22	5,214.38	5,090.95	123.43	42.247			
2,200.00	2,147.57	16,097.18	7,061.07	11.09	296.61	-119.82	1,522.18	297.83	5,117.02	4,993.06	123.96	41.279			
2,300.00	2,244.06	16,120.72	7,061.08	11.61	297.39	-119.38	1,522.84	321.36	5,019.67	4,895.15	124.52	40.313			
2,400.00	2,340.55	16,144.18	7,061.08	12.12	298.16	-118.92	1,523.46	344.81	4,922.32	4,797.22	125.09	39.349			
2,500.00	2,437.04	16,167.57	7,061.08	12.64	298.93	-118.45	1,524.04	368.20	4,824.97	4,699.29	125.69	38.389			
2,600.00	2,533.53	16,175.00	7,061.08	13.15	299.17	-118.30	1,524.24	375.62	4,727.67	4,601.59	126.08	37.497			
2,700.00	2,630.02	16,175.00	7,061.08	13.67	299.17	-118.30	1,524.24	375.62	4,630.46	4,504.07	126.40	36.634			
2,800.00	2,726.50	16,175.00	7,061.08	14.19	299.17	-118.30	1,524.24	375.62	4,533.38	4,406.64	126.74	35.770			
2,900.00	2,822.99	16,175.00	7,061.08	14.72	299.17	-118.30	1,524.24	375.62	4,436.43	4,309.32	127.11	34.903			
3,000.00	2,919.48	16,175.00	7,061.08	15.24	299.17	-118.30	1,524.24	375.62	4,339.62	4,212.12	127.50	34.035			
3,100.00	3,015.97	16,175.00	7,061.08	15.76	299.17	-118.30	1,524.24	375.62	4,242.95	4,115.02	127.93	33.166			
3,200.00	3,112.46	16,175.00	7,061.08	16.29	299.17	-118.30	1,524.24	375.62	4,146.45	4,018.06	128.39	32.297			
3,300.00	3,208.95	16,175.00	7,061.08	16.81	299.17	-118.30	1,524.24	375.62	4,050.11	3,921.23	128.88	31.426			
3,400.00	3,305.44	16,175.00	7,061.08	17.34	299.17	-118.30	1,524.24	375.62	3,953.95	3,824.55	129.40	30.556			
3,500.00	3,401.92	16,175.00	7,061.08	17.87	299.17	-118.30	1,524.24	375.62	3,857.99	3,728.03	129.96	29.685			
3,600.00	3,498.41	16,175.00	7,061.08	18.40	299.17	-118.30	1,524.24	375.62	3,762.24	3,631.68	130.56	28.816			
3,700.00	3,594.90	16,175.00	7,061.08	18.93	299.17	-118.30	1,524.24	375.62	3,666.72	3,535.52	131.20	27.948			
3,800.00	3,691.39	16,175.00	7,061.08	19.46	299.17	-118.30	1,524.24	375.62	3,571.44	3,439.56	131.88	27.081			
3,900.00	3,787.88	16,175.00	7,061.08	19.99	299.17	-118.30	1,524.24	375.62	3,476.43	3,343.83	132.60	26.218			
4,000.00	3,884.37	16,175.00	7,061.08	20.52	299.17	-118.30	1,524.24	375.62	3,381.70	3,248.34	133.37	25.357			
4,100.00	3,980.85	16,175.00	7,061.08	21.05	299.17	-118.30	1,524.24	375.62	3,287.29	3,153.11	134.18	24.499			
4,200.00	4,077.34	16,175.00	7,061.08	21.58	299.17	-118.30	1,524.24	375.62	3,193.22	3,058.17	135.04	23.646			
4,300.00	4,173.83	16,175.00	7,061.08	22.11	299.17	-118.30	1,524.24	375.62	3,099.51	2,963.56	135.96	22.798			
4,390.25	4,260.91	16,175.00	7,061.08	22.59	299.17	-118.30	1,524.24	375.62	3,015.29	2,878.47	136.83	22.037			
4,400.00	4,270.32	16,175.00	7,061.08	22.64	299.17	-117.86	1,524.24	375.62	3,006.21	2,869.29	136.92	21.955			
4,500.00	4,367.33	16,175.00	7,061.08	23.16	299.17	-113.22	1,524.24	375.62	2,913.02	2,774.98	138.04	21.103			
4,600.00	4,465.13	16,175.00	7,061.08	23.65	299.17	-108.40	1,524.24	375.62	2,819.77	2,680.40	139.37	20.232			
4,700.00	4,563.60	16,175.00	7,061.08	24.12	299.17	-103.46	1,524.24	375.62	2,726.59	2,585.64	140.96	19.344			
4,800.00	4,662.61	16,175.00	7,061.08	24.56	299.17	-98.50	1,524.24	375.62	2,633.60	2,490.79	142.81	18.441			
4,900.00	4,762.05	16,175.00	7,061.08	24.98	299.17	-93.60	1,524.24	375.62	2,540.95	2,395.97	144.98	17.526			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Orr 36C-32-M - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 20-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	16,175.00	7,061.08	25.38	299.17	-88.85	1,524.24	375.62	2,448.79	2,301.28	147.51	16.601			
5,100.00	4,961.73	16,175.00	7,061.08	25.76	299.17	-84.33	1,524.24	375.62	2,357.29	2,206.86	150.43	15.670			
5,151.69	5,013.42	16,175.00	7,061.08	25.95	299.17	-30.20	1,524.24	375.62	2,310.32	2,158.20	152.12	15.187			
5,200.00	5,061.73	16,175.00	7,061.08	26.13	299.17	-30.20	1,524.24	375.62	2,266.64	2,112.85	153.79	14.738			
5,300.00	5,161.73	16,175.00	7,061.08	26.49	299.17	-30.20	1,524.24	375.62	2,176.83	2,019.35	157.48	13.823			
5,400.00	5,261.73	16,175.00	7,061.08	26.86	299.17	-30.20	1,524.24	375.62	2,087.94	1,926.44	161.50	12.928			
5,500.00	5,361.73	16,175.00	7,061.08	27.23	299.17	-30.20	1,524.24	375.62	2,000.11	1,834.21	165.90	12.056			
5,600.00	5,461.73	16,175.00	7,061.08	27.60	299.17	-30.20	1,524.24	375.62	1,913.47	1,742.78	170.69	11.210			
5,700.00	5,561.73	16,175.00	7,061.08	27.97	299.17	-30.20	1,524.24	375.62	1,828.19	1,652.26	175.93	10.392			
5,800.00	5,661.73	16,175.00	7,061.08	28.35	299.17	-30.20	1,524.24	375.62	1,744.48	1,562.84	181.65	9.604			
5,900.00	5,761.73	16,175.00	7,061.08	28.72	299.17	-30.20	1,524.24	375.62	1,662.58	1,474.70	187.88	8.849			
6,000.00	5,861.73	16,175.00	7,061.08	29.10	299.17	-30.20	1,524.24	375.62	1,582.75	1,388.10	194.65	8.131			
6,100.00	5,961.73	16,175.00	7,061.08	29.48	299.17	-30.20	1,524.24	375.62	1,505.33	1,303.34	201.99	7.453			
6,200.00	6,061.73	16,175.00	7,061.08	29.86	299.17	-30.20	1,524.24	375.62	1,430.72	1,220.82	209.89	6.816			
6,300.00	6,161.73	16,175.00	7,061.08	30.25	299.17	-30.20	1,524.24	375.62	1,359.37	1,141.02	218.35	6.226			
6,400.00	6,261.73	16,175.00	7,061.08	30.63	299.17	-30.20	1,524.24	375.62	1,291.82	1,064.53	227.29	5.684			
6,451.69	6,313.42	16,175.00	7,061.08	30.83	299.17	-30.20	1,524.24	375.62	1,258.60	1,026.53	232.07	5.423			
6,500.00	6,361.68	16,175.00	7,061.08	31.01	299.17	65.44	1,524.24	375.62	1,228.06	991.33	236.73	5.188			
6,550.00	6,411.34	16,175.00	7,061.08	31.20	299.17	68.83	1,524.24	375.62	1,196.42	954.52	241.90	4.946			
6,600.00	6,460.39	16,175.00	7,061.08	31.38	299.17	72.27	1,524.24	375.62	1,164.93	917.53	247.40	4.709			
6,650.00	6,508.54	16,175.00	7,061.08	31.58	299.17	75.71	1,524.24	375.62	1,133.81	880.57	253.24	4.477			
6,700.00	6,555.48	16,175.00	7,061.08	31.78	299.17	79.09	1,524.24	375.62	1,103.29	843.90	259.39	4.253			
6,750.00	6,600.93	16,175.00	7,061.08	31.98	299.17	82.37	1,524.24	375.62	1,073.63	807.80	265.83	4.039			
6,800.00	6,644.61	16,175.00	7,061.08	32.20	299.17	85.48	1,524.24	375.62	1,045.08	772.57	272.51	3.835			
6,850.00	6,686.25	16,175.00	7,061.08	32.44	299.17	88.39	1,524.24	375.62	1,017.92	738.57	279.36	3.644			
6,900.00	6,725.58	16,175.00	7,061.08	32.68	299.17	91.05	1,524.24	375.62	992.45	706.15	286.29	3.467			
6,950.00	6,762.38	16,175.00	7,061.08	32.96	299.17	93.45	1,524.24	375.62	968.94	675.74	293.20	3.305			
7,000.00	6,796.41	16,175.00	7,061.08	33.25	299.17	95.55	1,524.24	375.62	947.71	647.75	299.96	3.159			
7,050.00	6,827.46	16,175.00	7,061.08	33.58	299.17	97.35	1,524.24	375.62	929.05	622.63	306.42	3.032			
7,100.00	6,855.34	16,175.00	7,061.08	33.93	299.17	98.84	1,524.24	375.62	913.22	600.81	312.41	2.923			
7,150.00	6,879.88	16,175.00	7,061.08	34.33	299.17	100.01	1,524.24	375.62	900.48	582.71	317.76	2.834			
7,200.00	6,900.93	16,175.00	7,061.08	34.76	299.17	100.86	1,524.24	375.62	891.04	568.71	322.32	2.764			
7,250.00	6,918.36	16,175.00	7,061.08	35.23	299.17	101.39	1,524.24	375.62	885.06	559.11	325.95	2.715			
7,300.00	6,932.05	16,159.08	7,061.08	35.74	298.65	101.36	1,523.83	359.71	882.50	554.78	327.72	2.693 SF			
7,350.00	6,941.94	16,107.17	7,061.07	36.29	296.94	100.80	1,522.46	307.82	881.39	554.24	327.15	2.694 ES			
7,400.00	6,947.94	16,054.59	7,061.06	36.87	295.21	100.42	1,520.90	255.26	880.93	554.60	326.32	2.700			
7,415.57	6,949.02	16,038.13	7,061.05	37.06	294.67	100.35	1,520.37	238.81	880.90	554.88	326.02	2.702			
7,450.00	6,950.04	16,006.00	7,061.03	37.47	293.62	100.27	1,519.36	206.69	881.10	555.59	325.51	2.707			
7,458.56	6,950.00	15,998.18	7,061.02	37.58	293.36	100.26	1,519.13	198.88	881.22	555.84	325.38	2.708			
7,500.00	6,949.56	15,960.34	7,060.98	38.11	292.12	100.27	1,518.12	161.05	881.95	557.20	324.75	2.716			
7,600.00	6,948.48	15,854.73	7,060.88	39.51	288.65	100.32	1,515.35	55.48	883.78	561.20	322.57	2.740			
7,700.00	6,947.40	15,759.58	7,060.91	41.06	285.52	100.37	1,512.30	-39.63	885.07	563.97	321.10	2.756			
7,800.00	6,946.32	15,663.00	7,060.96	42.74	282.35	100.42	1,510.24	-136.18	887.39	567.70	319.68	2.776			
7,900.00	6,945.24	15,561.21	7,061.02	44.55	279.01	100.47	1,507.83	-237.95	889.48	571.38	318.11	2.796			
8,000.00	6,944.16	15,456.06	7,061.00	46.46	275.55	100.52	1,505.07	-343.06	891.32	574.87	316.45	2.817			
8,100.00	6,943.08	15,351.66	7,060.93	48.47	272.13	100.57	1,501.67	-447.41	892.53	577.60	314.92	2.834			
8,200.00	6,942.01	15,268.80	7,060.65	50.55	269.41	100.59	1,499.59	-530.23	894.42	579.79	314.63	2.843			
8,300.00	6,940.93	15,195.31	7,060.19	52.71	266.99	100.58	1,499.55	-603.72	898.70	583.98	314.72	2.856			
8,400.00	6,939.85	15,029.60	7,057.11	54.93	261.56	100.44	1,497.66	-769.30	902.16	591.71	310.45	2.906			
8,500.00	6,938.77	14,920.54	7,053.29	57.20	258.01	100.29	1,491.17	-878.09	900.07	591.05	309.02	2.913			
8,600.00	6,937.69	14,824.99	7,049.93	59.53	254.90	100.17	1,485.17	-973.40	897.68	589.19	308.49	2.910			
8,700.00	6,936.61	14,734.91	7,046.99	61.89	251.97	100.05	1,480.37	-1,063.30	896.28	587.95	308.32	2.907			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Orr 36C-32-M - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 20-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,800.00	6,935.54	14,641.97	7,044.94	64.30	248.94	99.99	1,476.21	-1,156.13	895.89	587.94	307.95	2.909			
8,812.14	6,935.40	14,630.39	7,044.70	64.60	248.56	99.98	1,475.73	-1,167.69	895.89	588.00	307.89	2.910			
8,900.00	6,934.46	14,548.02	7,043.27	66.74	245.87	99.94	1,472.52	-1,249.99	896.13	588.61	307.52	2.914			
9,000.00	6,933.38	14,440.87	7,043.40	69.21	242.38	100.02	1,468.30	-1,357.05	896.71	590.45	306.26	2.928			
9,100.00	6,932.30	14,329.26	7,043.86	71.71	238.75	100.14	1,462.15	-1,468.49	895.76	591.05	304.70	2.940			
9,200.00	6,931.22	14,213.97	7,044.13	74.23	235.03	100.27	1,454.20	-1,583.50	893.42	590.55	302.87	2.950			
9,300.00	6,930.14	14,104.06	7,044.29	76.78	231.49	100.41	1,444.88	-1,693.02	889.50	588.13	301.37	2.952			
9,400.00	6,929.06	14,005.46	7,044.45	79.34	228.32	100.54	1,436.16	-1,791.24	885.24	584.56	300.69	2.944			
9,500.00	6,927.99	13,912.61	7,044.64	81.93	225.34	100.66	1,428.26	-1,883.74	881.33	580.89	300.44	2.933			
9,600.00	6,926.91	13,825.11	7,044.86	84.53	222.52	100.77	1,422.01	-1,971.02	878.76	578.20	300.56	2.924			
9,700.00	6,925.83	13,735.96	7,045.17	87.14	219.64	100.87	1,416.63	-2,060.01	877.34	576.80	300.54	2.919			
9,734.26	6,925.46	13,707.81	7,045.27	88.04	218.73	100.90	1,415.25	-2,088.12	877.22	576.54	300.67	2.917 CC			
9,800.00	6,924.75	13,652.07	7,045.46	89.77	216.92	100.94	1,413.08	-2,143.82	877.64	576.84	300.81	2.918			
9,900.00	6,923.67	13,560.23	7,045.93	92.41	213.93	101.02	1,410.25	-2,235.61	879.15	578.58	300.57	2.925			
10,000.00	6,922.59	13,478.60	7,046.18	95.07	211.27	101.07	1,409.14	-2,317.24	882.29	581.44	300.85	2.933			
10,100.00	6,921.51	13,369.57	7,046.24	97.73	207.72	101.10	1,407.86	-2,426.26	885.53	585.74	299.79	2.954			
10,200.00	6,920.44	13,292.70	7,046.40	100.40	205.21	101.12	1,407.83	-2,503.12	889.95	589.72	300.23	2.964			
10,300.00	6,919.36	13,197.90	7,046.62	103.08	202.11	101.13	1,409.32	-2,597.92	895.96	596.11	299.85	2.988			
10,400.00	6,918.28	13,068.28	7,047.01	105.77	197.89	101.17	1,409.81	-2,727.53	900.87	602.93	297.95	3.024			
10,500.00	6,917.20	12,933.01	7,047.35	108.47	193.52	101.27	1,404.70	-2,862.69	901.55	606.17	295.38	3.052			
10,600.00	6,916.12	12,837.22	7,047.44	111.18	190.44	101.36	1,399.47	-2,958.34	900.64	605.61	295.04	3.053			
10,700.00	6,915.04	12,739.13	7,047.47	113.89	187.28	101.43	1,394.64	-3,056.31	900.23	605.67	294.56	3.056			
10,800.00	6,913.96	12,616.85	7,047.57	116.61	183.38	101.55	1,386.97	-3,178.34	898.47	605.91	292.57	3.071			
10,900.00	6,912.89	12,512.55	7,047.68	119.33	180.06	101.67	1,379.29	-3,282.35	895.71	604.03	291.68	3.071			
11,000.00	6,911.81	12,400.04	7,047.90	122.06	176.50	101.83	1,369.47	-3,394.44	891.59	601.40	290.19	3.072			
11,100.00	6,910.73	12,319.72	7,047.96	124.79	173.96	101.93	1,362.37	-3,474.44	887.51	596.53	290.98	3.050			
11,159.28	6,910.09	12,281.89	7,047.64	126.41	172.76	101.95	1,360.26	-3,512.20	886.79	594.78	292.02	3.037			
11,200.00	6,909.65	12,253.48	7,047.22	127.53	171.85	101.94	1,359.30	-3,540.60	887.11	594.59	292.52	3.033			
11,300.00	6,908.57	12,174.24	7,045.52	130.27	169.30	101.85	1,358.06	-3,619.80	889.58	596.41	293.16	3.034			
11,400.00	6,907.49	12,025.94	7,041.74	133.02	164.56	101.69	1,353.38	-3,767.96	890.30	600.13	290.16	3.068			
11,500.00	6,906.41	11,915.70	7,039.16	135.77	161.07	101.64	1,345.93	-3,877.92	887.58	598.49	289.09	3.070			
11,600.00	6,905.34	11,831.92	7,037.67	138.52	158.43	101.63	1,340.58	-3,961.51	885.43	595.74	289.69	3.056			
11,644.02	6,904.86	11,797.00	7,037.44	139.74	157.32	101.64	1,338.88	-3,996.39	885.21	595.18	290.03	3.052			
11,700.00	6,904.26	11,754.69	7,037.27	141.28	155.98	101.65	1,337.34	-4,038.68	885.65	595.12	290.53	3.048			
11,800.00	6,903.18	11,672.41	7,036.81	144.04	153.35	101.65	1,336.10	-4,120.95	888.43	597.45	290.98	3.053			
11,900.00	6,902.10	11,577.23	7,036.53	146.80	150.31	101.65	1,335.54	-4,216.13	892.21	601.46	290.75	3.069			
12,000.00	6,901.02	11,473.95	7,036.52	149.57	147.02	101.67	1,335.32	-4,319.40	896.43	606.29	290.15	3.090			
12,100.00	6,899.94	11,366.19	7,036.60	152.34	143.60	101.71	1,333.70	-4,427.14	899.38	610.06	289.31	3.109			
12,200.00	6,898.87	11,269.69	7,036.68	155.11	140.55	101.74	1,332.27	-4,523.63	902.36	613.34	289.03	3.122			
12,300.00	6,897.79	11,175.23	7,035.69	157.89	137.56	101.70	1,331.57	-4,618.08	905.86	616.95	288.90	3.136			
12,400.00	6,896.71	11,061.28	7,033.86	160.66	133.96	101.61	1,330.76	-4,732.02	909.30	621.40	287.90	3.158			
12,500.00	6,895.63	10,954.20	7,032.09	163.44	130.61	101.55	1,328.24	-4,839.05	911.07	623.87	287.20	3.172			
12,600.00	6,894.55	10,855.36	7,030.58	166.22	127.53	101.50	1,325.63	-4,937.85	912.60	625.69	286.91	3.181			
12,700.00	6,893.47	10,765.29	7,029.28	169.00	124.72	101.45	1,323.89	-5,027.89	914.84	627.78	287.06	3.187			
12,800.00	6,892.39	10,555.51	7,024.22	171.79	118.38	101.36	1,308.68	-5,236.91	911.80	632.06	279.74	3.259			
12,900.00	6,891.32	10,447.65	7,022.22	174.57	115.25	101.45	1,292.40	-5,343.51	900.94	622.24	278.70	3.233			
13,000.00	6,890.24	10,369.13	7,021.49	177.36	112.98	101.55	1,282.03	-5,421.34	892.13	612.08	280.05	3.186			
13,100.00	6,889.16	10,283.78	7,020.91	180.15	110.50	101.65	1,271.85	-5,506.07	884.76	603.98	280.78	3.151			
13,200.00	6,888.08	10,211.00	7,021.27	182.94	108.38	101.77	1,265.35	-5,578.56	880.39	598.10	282.29	3.119			
13,300.00	6,887.00	10,132.80	7,022.39	185.74	106.08	101.92	1,260.41	-5,656.59	878.83	595.60	283.23	3.103			
13,400.00	6,885.92	10,037.48	7,024.08	188.53	103.28	102.10	1,255.44	-5,751.77	878.51	595.44	283.07	3.104			
13,418.03	6,885.73	10,020.85	7,024.41	189.03	102.79	102.14	1,254.59	-5,768.38	878.49	595.42	283.07	3.103			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Orr 36C-32-M - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 20-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
13,500.00	6,884.84	9,955.82	7,025.69	191.32	100.88	102.26	1,252.02	-5,833.34	879.28	595.63	283.65	3.100			
13,600.00	6,883.77	9,879.74	7,027.17	194.12	98.65	102.38	1,250.75	-5,909.39	882.51	598.13	284.38	3.103			
13,700.00	6,882.69	9,803.03	7,028.65	196.92	96.38	102.46	1,251.69	-5,986.08	888.52	603.60	284.93	3.118			
13,800.00	6,881.61	9,720.38	7,030.13	199.72	93.94	102.52	1,254.71	-6,068.66	896.87	611.71	285.16	3.145			
13,900.00	6,880.53	9,630.39	7,030.73	202.52	91.29	102.50	1,259.34	-6,158.53	906.45	621.26	285.19	3.178			
14,000.00	6,879.45	9,543.66	7,030.85	205.32	88.75	102.44	1,265.26	-6,245.05	917.53	632.22	285.31	3.216			
14,100.00	6,878.37	9,420.85	7,030.94	208.12	85.21	102.35	1,272.77	-6,367.64	927.94	643.30	284.65	3.260			
14,200.00	6,877.29	9,300.05	7,030.75	210.92	81.82	102.29	1,276.99	-6,488.36	935.71	651.79	283.92	3.296			
14,300.00	6,876.22	9,209.79	7,029.82	213.73	79.35	102.21	1,279.55	-6,578.58	942.71	658.56	284.15	3.318			
14,400.00	6,875.14	9,096.18	7,029.00	216.53	76.30	102.12	1,283.47	-6,692.11	950.43	666.71	283.72	3.350			
14,500.00	6,874.06	8,960.82	7,027.75	219.34	72.87	102.06	1,283.92	-6,827.45	955.01	672.51	282.50	3.381			
14,600.00	6,872.98	8,810.59	7,026.14	222.15	69.37	102.06	1,277.69	-6,977.53	955.21	674.91	280.30	3.408			
14,700.00	6,871.90	8,707.08	7,025.55	224.95	67.20	102.13	1,270.05	-7,080.75	952.28	672.05	280.23	3.398			
14,800.00	6,870.82	8,613.67	7,025.89	227.76	65.37	102.24	1,263.31	-7,173.92	949.72	669.04	280.68	3.384			
14,900.00	6,869.75	8,485.98	7,027.10	230.57	63.16	102.47	1,252.21	-7,301.12	945.81	666.37	279.44	3.385			
15,000.00	6,868.67	8,375.61	7,028.02	233.38	61.55	102.69	1,240.29	-7,410.83	939.84	660.68	279.16	3.367			
15,100.00	6,867.59	8,276.01	7,028.93	236.19	60.31	102.90	1,229.06	-7,509.80	933.46	653.90	279.55	3.339			
15,200.00	6,866.51	8,182.99	7,029.70	239.00	59.32	103.09	1,218.94	-7,602.26	927.45	647.05	280.40	3.308			
15,300.00	6,865.43	8,094.17	7,030.43	241.81	58.51	103.26	1,210.17	-7,690.64	922.44	640.92	281.52	3.277			
15,400.00	6,864.35	7,982.69	7,031.10	244.63	57.69	103.46	1,199.85	-7,801.64	918.04	636.27	281.77	3.258			
15,500.00	6,863.27	7,866.08	7,030.62	247.44	57.07	103.63	1,186.71	-7,917.50	911.38	629.34	282.04	3.231			
15,600.00	6,862.20	7,759.33	7,025.43	250.25	56.66	103.50	1,173.84	-8,023.33	902.87	619.63	283.23	3.188			
15,618.10	6,862.00	7,748.82	7,024.48	250.76	56.62	103.46	1,172.75	-8,033.74	901.45	617.62	283.83	3.176			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Orr State 36N-35C-M - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 20-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	2,239.00	2,159.58	3.28	14.67	-71.73	2,671.53	-8,093.96	8,802.95					
100.00	100.00	2,278.63	2,196.72	3.28	15.00	-71.80	2,659.02	-8,088.09	8,778.23	8,761.37	16.87	520.395		
200.00	200.00	2,328.00	2,242.99	3.34	15.41	-71.89	2,643.16	-8,081.34	8,754.28	8,737.04	17.24	507.814		
300.00	299.98	2,351.14	2,264.66	3.44	15.60	-124.21	2,635.64	-8,078.38	8,731.90	8,714.42	17.48	499.662		
400.00	399.84	2,394.59	2,305.38	3.61	15.96	-124.63	2,621.42	-8,073.04	8,712.11	8,694.21	17.91	486.475		
500.00	499.45	2,447.18	2,354.65	3.81	16.40	-125.04	2,604.09	-8,066.94	8,694.91	8,676.44	18.46	470.949		
600.00	598.70	2,520.71	2,423.53	4.06	17.01	-125.47	2,579.71	-8,058.74	8,680.15	8,660.93	19.22	451.606		
700.00	697.47	2,686.00	2,578.52	4.35	18.39	-126.12	2,525.83	-8,038.78	8,666.77	8,646.08	20.69	418.899		
800.00	795.62	2,744.06	2,632.98	4.66	18.88	-126.46	2,507.09	-8,031.51	8,655.65	8,634.23	21.42	404.099		
900.00	893.06	2,775.00	2,662.03	5.01	19.14	-126.68	2,497.07	-8,027.91	8,647.47	8,625.48	21.99	393.176		
961.44	952.51	2,802.99	2,688.32	5.25	19.37	-126.83	2,487.95	-8,024.82	8,643.86	8,621.43	22.43	385.313		
1,000.00	989.71	2,818.28	2,702.67	5.40	19.50	-126.88	2,482.93	-8,023.19	8,641.99	8,619.29	22.70	380.719		
1,100.00	1,086.20	2,865.00	2,746.50	5.81	19.89	-127.03	2,467.47	-8,018.48	8,637.66	8,614.20	23.46	368.177		
1,200.00	1,182.69	2,938.21	2,815.17	6.24	20.50	-127.27	2,443.07	-8,011.39	8,633.90	8,609.46	24.45	353.188		
1,300.00	1,279.18	3,033.42	2,904.46	6.69	21.29	-127.58	2,411.38	-8,002.12	8,630.39	8,604.78	25.61	336.928		
1,400.00	1,375.67	3,110.05	2,976.33	7.15	21.94	-127.83	2,385.87	-7,994.64	8,627.15	8,600.49	26.66	323.585		
1,500.00	1,472.15	3,257.54	3,114.67	7.62	23.18	-128.31	2,336.87	-7,979.96	8,624.10	8,595.85	28.26	305.215		
1,600.00	1,568.64	3,346.64	3,198.23	8.10	23.93	-128.59	2,307.45	-7,970.42	8,620.69	8,591.27	29.42	293.017		
1,700.00	1,665.13	3,983.75	3,795.69	8.59	29.35	-130.57	2,106.13	-7,881.64	8,616.65	8,582.12	34.53	249.505		
1,800.00	1,761.62	4,028.00	3,837.19	9.08	29.73	-130.71	2,092.94	-7,873.80	8,608.54	8,573.17	35.37	243.392		
1,900.00	1,858.11	4,028.00	3,837.19	9.58	29.73	-130.71	2,092.94	-7,873.80	8,601.33	8,565.43	35.91	239.552		
2,000.00	1,954.60	4,074.16	3,880.53	10.08	30.12	-130.84	2,078.99	-7,866.15	8,594.82	8,558.05	36.77	233.739		
2,100.00	2,051.09	4,117.00	3,920.77	10.59	30.49	-130.98	2,065.79	-7,859.75	8,589.41	8,551.80	37.62	228.333		
2,200.00	2,147.57	4,117.00	3,920.77	11.09	30.49	-130.98	2,065.79	-7,859.75	8,584.77	8,546.60	38.16	224.948		
2,300.00	2,244.06	4,168.69	3,969.31	11.61	30.93	-131.14	2,049.52	-7,852.65	8,580.97	8,541.88	39.09	219.512		
2,400.00	2,340.55	4,217.01	4,014.64	12.12	31.34	-131.29	2,033.96	-7,846.39	8,577.89	8,537.89	40.00	214.455		
2,500.00	2,437.04	4,318.30	4,109.59	12.64	32.21	-131.61	2,001.18	-7,833.46	8,575.21	8,533.90	41.31	207.568		
2,600.00	2,533.53	4,457.57	4,240.15	13.15	33.41	-132.06	1,956.29	-7,815.10	8,572.49	8,529.57	42.91	199.755		
2,700.00	2,630.02	4,769.21	4,532.34	13.67	36.10	-133.02	1,859.33	-7,766.88	8,567.45	8,521.70	45.75	187.270		
2,800.00	2,726.50	4,814.39	4,574.68	14.19	36.49	-133.16	1,845.38	-7,759.55	8,562.84	8,516.19	46.65	183.558		
2,900.00	2,822.99	4,870.53	4,627.28	14.72	36.98	-133.33	1,827.85	-7,750.76	8,558.89	8,511.26	47.63	179.680		
3,000.00	2,919.48	4,937.32	4,689.85	15.24	37.56	-133.54	1,806.80	-7,740.55	8,555.47	8,506.77	48.70	175.670		
3,100.00	3,015.97	5,012.00	4,759.80	15.76	38.21	-133.77	1,783.21	-7,729.26	8,552.44	8,502.61	49.83	171.623		
3,200.00	3,112.46	5,062.04	4,806.68	16.29	38.64	-133.93	1,767.38	-7,721.85	8,549.94	8,499.16	50.78	168.362		
3,300.00	3,208.95	5,102.00	4,844.14	16.81	38.98	-134.06	1,754.70	-7,716.13	8,548.14	8,496.48	51.66	165.475		
3,400.00	3,305.44	5,165.74	4,903.93	17.34	39.53	-134.26	1,734.44	-7,707.28	8,546.96	8,494.24	52.71	162.137		
3,500.00	3,401.92	5,223.06	4,957.73	17.87	40.03	-134.44	1,716.22	-7,699.56	8,546.37	8,492.64	53.72	159.083		
3,553.79	3,453.82	5,254.59	4,987.35	18.15	40.30	-134.54	1,706.24	-7,695.39	8,546.28	8,492.01	54.27	157.476		
3,600.00	3,498.41	5,281.00	5,012.16	18.40	40.52	-134.62	1,697.90	-7,691.94	8,546.34	8,491.61	54.74	156.138		
3,700.00	3,594.90	5,341.97	5,069.44	18.93	41.04	-134.81	1,678.54	-7,684.14	8,546.88	8,491.10	55.77	153.239		
3,800.00	3,691.39	5,399.14	5,123.12	19.46	41.53	-135.00	1,660.15	-7,677.06	8,547.97	8,491.18	56.79	150.528		
3,900.00	3,787.88	5,460.00	5,180.27	19.99	42.05	-135.19	1,640.56	-7,669.77	8,549.67	8,491.84	57.83	147.844		
4,000.00	3,884.37	5,529.80	5,245.90	20.52	42.64	-135.41	1,618.24	-7,661.58	8,551.87	8,492.93	58.94	145.096		
4,100.00	3,980.85	4,100.00	5,349.87	21.05	30.54	-135.76	1,583.04	-7,648.38	8,554.18	8,505.90	48.28	177.195		
4,200.00	4,077.34	5,678.93	5,386.11	21.58	43.91	-135.89	1,570.65	-7,643.84	8,556.93	8,495.69	61.24	139.732		
4,300.00	4,173.83	5,728.00	5,432.23	22.11	44.32	-136.05	1,554.74	-7,638.55	8,560.60	8,498.41	62.19	137.654		
4,390.25	4,260.91	4,390.25	5,688.82	22.59	32.84	-136.92	1,466.20	-7,606.27	8,563.79	8,511.66	52.13	164.281		
4,400.00	4,270.32	5,997.00	5,684.71	22.64	46.62	-136.91	1,467.59	-7,606.85	8,563.99	8,499.10	64.89	131.967		
4,500.00	4,367.33	6,043.69	5,728.57	23.16	47.02	-137.07	1,452.78	-7,600.76	8,564.97	8,499.15	65.82	130.126		
4,600.00	4,465.13	6,086.00	5,768.33	23.65	47.38	-137.18	1,439.26	-7,595.63	8,564.26	8,497.57	66.69	128.419		
4,700.00	4,563.60	6,315.51	5,983.73	24.12	49.36	-137.78	1,366.02	-7,565.50	8,559.93	8,490.91	69.02	124.020		
4,800.00	4,662.61	6,355.00	6,020.78	24.56	49.70	-137.79	1,353.38	-7,560.35	8,553.58	8,483.75	69.83	122.486		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Orr State 36N-35C-M - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 20-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	6,355.00	6,020.78	24.98	49.70	-137.68	1,353.38	-7,560.35	8,545.51	8,475.20	70.31	121.541		
5,000.00	4,861.80	6,393.64	6,057.04	25.38	50.03	-137.65	1,340.83	-7,555.78	8,535.71	8,464.64	71.07	120.097		
5,100.00	4,961.73	6,445.00	6,105.23	25.76	50.47	-137.61	1,323.89	-7,550.45	8,524.40	8,452.48	71.92	118.526		
5,151.69	5,013.42	6,445.00	6,105.23	25.95	50.47	-85.63	1,323.89	-7,550.45	8,517.71	8,445.58	72.13	118.089		
5,200.00	5,061.73	6,445.00	6,105.23	26.13	50.47	-85.63	1,323.89	-7,550.45	8,511.42	8,439.10	72.32	117.692		
5,300.00	5,161.73	6,484.84	6,142.65	26.49	50.80	-85.71	1,310.74	-7,546.76	8,499.03	8,425.99	73.04	116.362		
5,400.00	5,261.73	6,534.00	6,188.96	26.86	51.21	-85.82	1,294.78	-7,542.53	8,487.38	8,413.55	73.84	114.947		
5,500.00	5,361.73	6,534.00	6,188.96	27.23	51.21	-85.82	1,294.78	-7,542.53	8,476.56	8,402.34	74.22	114.206		
5,600.00	5,461.73	6,534.00	6,188.96	27.60	51.21	-85.82	1,294.78	-7,542.53	8,466.90	8,392.30	74.60	113.500		
5,700.00	5,561.73	6,534.00	6,188.96	27.97	51.21	-85.82	1,294.78	-7,542.53	8,458.41	8,383.44	74.97	112.826		
5,800.00	5,661.73	6,577.01	6,229.57	28.35	51.55	-85.91	1,280.89	-7,539.79	8,450.20	8,374.50	75.70	111.629		
5,900.00	5,761.73	6,624.00	6,273.97	28.72	51.92	-86.02	1,265.56	-7,538.62	8,444.13	8,367.67	76.46	110.434		
6,000.00	5,861.73	6,624.00	6,273.97	29.10	51.92	-86.02	1,265.56	-7,538.62	8,438.17	8,361.35	76.82	109.845		
6,100.00	5,961.73	6,624.00	6,273.97	29.48	51.92	-86.02	1,265.56	-7,538.62	8,433.39	8,356.23	77.17	109.289		
6,200.00	6,061.73	6,624.00	6,273.97	29.86	51.92	-86.02	1,265.56	-7,538.62	8,429.80	8,352.29	77.51	108.764		
6,300.00	6,161.73	6,624.00	6,273.97	30.25	51.92	-86.02	1,265.56	-7,538.62	8,427.38	8,349.55	77.84	108.271		
6,400.00	6,261.73	6,624.00	6,273.97	30.63	51.92	-86.02	1,265.56	-7,538.62	8,426.16	8,348.00	78.16	107.810		
6,451.69	6,313.42	6,624.00	6,273.97	30.83	51.92	-86.02	1,265.56	-7,538.62	8,425.99	8,347.67	78.32	107.583		
6,500.00	6,361.68	6,624.00	6,273.97	31.01	51.92	6.46	1,265.56	-7,538.62	8,424.30	8,345.84	78.46	107.370		
6,550.00	6,411.34	6,624.00	6,273.97	31.20	51.92	6.52	1,265.56	-7,538.62	8,419.01	8,340.43	78.59	107.128		
6,600.00	6,460.39	6,624.00	6,273.97	31.38	51.92	6.61	1,265.56	-7,538.62	8,410.16	8,331.46	78.70	106.860		
6,650.00	6,508.54	6,624.00	6,273.97	31.58	51.92	6.74	1,265.56	-7,538.62	8,397.78	8,318.98	78.80	106.567		
6,700.00	6,555.48	6,624.00	6,273.97	31.78	51.92	6.92	1,265.56	-7,538.62	8,381.93	8,303.04	78.89	106.250		
6,750.00	6,600.93	6,624.00	6,273.97	31.98	51.92	7.15	1,265.56	-7,538.62	8,362.70	8,283.74	78.96	105.911		
6,800.00	6,644.61	6,666.31	6,313.94	32.20	52.21	7.35	1,251.73	-7,539.69	8,338.79	8,259.39	79.40	105.020		
6,850.00	6,686.25	6,669.52	6,316.97	32.44	52.24	7.70	1,250.68	-7,539.88	8,312.87	8,233.39	79.48	104.594		
6,900.00	6,725.58	6,672.61	6,319.88	32.68	52.26	8.14	1,249.68	-7,540.07	8,283.89	8,204.35	79.54	104.148		
6,950.00	6,762.38	6,714.00	6,358.83	32.96	52.54	8.60	1,236.25	-7,543.95	8,253.15	8,173.21	79.94	103.241		
7,000.00	6,796.41	6,714.00	6,358.83	33.25	52.54	9.27	1,236.25	-7,543.95	8,218.37	8,138.41	79.96	102.787		
7,050.00	6,827.46	6,714.00	6,358.83	33.58	52.54	10.12	1,236.25	-7,543.95	8,181.05	8,101.09	79.96	102.312		
7,100.00	6,855.34	6,714.00	6,358.83	33.93	52.54	11.21	1,236.25	-7,543.95	8,141.39	8,061.43	79.96	101.817		
7,150.00	6,879.88	6,714.00	6,358.83	34.33	52.54	12.62	1,236.25	-7,543.95	8,099.61	8,019.65	79.95	101.303		
7,200.00	6,900.93	6,714.00	6,358.83	34.76	52.54	14.52	1,236.25	-7,543.95	8,055.92	7,975.98	79.94	100.769		
7,250.00	6,918.36	6,714.00	6,358.83	35.23	52.54	17.17	1,236.25	-7,543.95	8,010.58	7,930.65	79.93	100.216		
7,300.00	6,932.05	6,714.00	6,358.83	35.74	52.54	21.06	1,236.25	-7,543.95	7,963.83	7,883.91	79.92	99.646		
7,350.00	6,941.94	6,714.00	6,358.83	36.29	52.54	27.21	1,236.25	-7,543.95	7,915.94	7,836.03	79.91	99.059		
7,400.00	6,947.94	6,714.00	6,358.83	36.87	52.54	37.88	1,236.25	-7,543.95	7,867.18	7,787.28	79.91	98.456		
7,450.00	6,950.04	6,714.00	6,358.83	37.47	52.54	58.09	1,236.25	-7,543.95	7,817.85	7,737.95	79.91	97.838		
7,458.56	6,950.00	6,714.00	6,358.83	37.58	52.54	63.02	1,236.25	-7,543.95	7,809.37	7,729.47	79.91	97.730		
7,500.00	6,949.56	6,714.00	6,358.83	38.11	52.54	63.02	1,236.25	-7,543.95	7,768.29	7,688.38	79.91	97.211		
7,600.00	6,948.48	6,714.00	6,358.83	39.51	52.54	63.02	1,236.25	-7,543.95	7,669.19	7,589.26	79.92	95.956		
7,700.00	6,947.40	6,714.00	6,358.83	41.06	52.54	63.02	1,236.25	-7,543.95	7,570.10	7,490.16	79.94	94.694		
7,800.00	6,946.32	6,714.00	6,358.83	42.74	52.54	63.02	1,236.25	-7,543.95	7,471.04	7,391.07	79.97	93.426		
7,900.00	6,945.24	6,714.00	6,358.83	44.55	52.54	63.02	1,236.25	-7,543.95	7,372.01	7,292.01	80.00	92.151		
8,000.00	6,944.16	6,714.00	6,358.83	46.46	52.54	63.02	1,236.25	-7,543.95	7,273.00	7,192.96	80.04	90.870		
8,100.00	6,943.08	6,714.00	6,358.83	48.47	52.54	63.02	1,236.25	-7,543.95	7,174.02	7,093.93	80.08	89.582		
8,200.00	6,942.01	6,714.00	6,358.83	50.55	52.54	63.02	1,236.25	-7,543.95	7,075.07	6,994.93	80.14	88.287		
8,300.00	6,940.93	6,714.00	6,358.83	52.71	52.54	63.02	1,236.25	-7,543.95	6,976.14	6,895.94	80.20	86.985		
8,400.00	6,939.85	6,714.00	6,358.83	54.93	52.54	63.02	1,236.25	-7,543.95	6,877.25	6,796.98	80.27	85.676		
8,500.00	6,938.77	6,714.00	6,358.83	57.20	52.54	63.02	1,236.25	-7,543.95	6,778.39	6,698.04	80.35	84.360		
8,600.00	6,937.69	6,714.00	6,358.83	59.53	52.54	63.02	1,236.25	-7,543.95	6,679.57	6,599.13	80.44	83.036		
8,700.00	6,936.61	6,714.00	6,358.83	61.89	52.54	63.02	1,236.25	-7,543.95	6,580.78	6,500.24	80.54	81.705		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - Orr State 36N-35C-M - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 20-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	6,714.00	6,358.83	64.30	52.54	63.02	1,236.25	-7,543.95	6,482.03	6,401.37	80.66	80.367		
8,900.00	6,934.46	6,714.00	6,358.83	66.74	52.54	63.02	1,236.25	-7,543.95	6,383.32	6,302.54	80.78	79.021		
9,000.00	6,933.38	6,714.00	6,358.83	69.21	52.54	63.02	1,236.25	-7,543.95	6,284.64	6,203.73	80.92	77.668		
9,100.00	6,932.30	6,714.00	6,358.83	71.71	52.54	63.02	1,236.25	-7,543.95	6,186.01	6,104.95	81.07	76.307		
9,200.00	6,931.22	6,714.00	6,358.83	74.23	52.54	63.02	1,236.25	-7,543.95	6,087.43	6,006.20	81.23	74.939		
9,300.00	6,930.14	6,714.00	6,358.83	76.78	52.54	63.02	1,236.25	-7,543.95	5,988.89	5,907.48	81.41	73.563		
9,400.00	6,929.06	6,714.00	6,358.83	79.34	52.54	63.02	1,236.25	-7,543.95	5,890.40	5,808.79	81.61	72.179		
9,500.00	6,927.99	6,714.00	6,358.83	81.93	52.54	63.02	1,236.25	-7,543.95	5,791.97	5,710.14	81.82	70.788		
9,600.00	6,926.91	6,714.00	6,358.83	84.53	52.54	63.02	1,236.25	-7,543.95	5,693.58	5,611.53	82.05	69.389		
9,700.00	6,925.83	6,714.00	6,358.83	87.14	52.54	63.02	1,236.25	-7,543.95	5,595.26	5,512.95	82.30	67.983		
9,800.00	6,924.75	6,714.00	6,358.83	89.77	52.54	63.02	1,236.25	-7,543.95	5,496.99	5,414.42	82.58	66.569		
9,900.00	6,923.67	6,714.00	6,358.83	92.41	52.54	63.02	1,236.25	-7,543.95	5,398.79	5,315.92	82.87	65.148		
10,000.00	6,922.59	6,714.00	6,358.83	95.07	52.54	63.02	1,236.25	-7,543.95	5,300.66	5,217.47	83.19	63.719		
10,100.00	6,921.51	6,714.00	6,358.83	97.73	52.54	63.02	1,236.25	-7,543.95	5,202.60	5,119.07	83.53	62.284		
10,200.00	6,920.44	6,714.00	6,358.83	100.40	52.54	63.02	1,236.25	-7,543.95	5,104.61	5,020.71	83.90	60.842		
10,300.00	6,919.36	6,714.00	6,358.83	103.08	52.54	63.02	1,236.25	-7,543.95	5,006.70	4,922.40	84.30	59.394		
10,400.00	6,918.28	6,714.00	6,358.83	105.77	52.54	63.02	1,236.25	-7,543.95	4,908.88	4,824.15	84.72	57.940		
10,500.00	6,917.20	6,714.00	6,358.83	108.47	52.54	63.02	1,236.25	-7,543.95	4,811.14	4,725.96	85.18	56.480		
10,600.00	6,916.12	6,714.00	6,358.83	111.18	52.54	63.02	1,236.25	-7,543.95	4,713.50	4,627.83	85.68	55.014		
10,700.00	6,915.04	6,714.00	6,358.83	113.89	52.54	63.02	1,236.25	-7,543.95	4,615.97	4,529.76	86.21	53.544		
10,800.00	6,913.96	6,714.00	6,358.83	116.61	52.54	63.02	1,236.25	-7,543.95	4,518.54	4,431.76	86.78	52.070		
10,900.00	6,912.89	6,714.00	6,358.83	119.33	52.54	63.02	1,236.25	-7,543.95	4,421.22	4,333.83	87.39	50.592		
11,000.00	6,911.81	6,714.00	6,358.83	122.06	52.54	63.02	1,236.25	-7,543.95	4,324.03	4,235.98	88.05	49.111		
11,100.00	6,910.73	6,714.00	6,358.83	124.79	52.54	63.02	1,236.25	-7,543.95	4,226.97	4,138.22	88.75	47.627		
11,200.00	6,909.65	6,714.00	6,358.83	127.53	52.54	63.02	1,236.25	-7,543.95	4,130.04	4,040.54	89.51	46.143		
11,300.00	6,908.57	6,751.01	6,393.49	130.27	52.75	64.49	1,224.45	-7,549.40	4,032.19	3,941.71	90.48	44.564		
11,400.00	6,907.49	6,753.81	6,396.09	133.02	52.77	64.60	1,223.57	-7,549.88	3,935.41	3,844.06	91.35	43.082		
11,500.00	6,906.41	6,756.72	6,398.81	135.77	52.78	64.72	1,222.66	-7,550.40	3,838.77	3,746.50	92.27	41.602		
11,600.00	6,905.34	6,759.76	6,401.64	138.52	52.80	64.85	1,221.71	-7,550.95	3,742.30	3,649.04	93.26	40.126		
11,700.00	6,904.26	6,762.93	6,404.60	141.28	52.82	64.98	1,220.72	-7,551.53	3,646.01	3,551.68	94.32	38.654		
11,800.00	6,903.18	6,766.24	6,407.69	144.04	52.84	65.11	1,219.69	-7,552.16	3,549.99	3,454.44	95.46	37.188		
11,900.00	6,902.10	6,803.00	6,441.77	146.80	53.04	66.68	1,208.44	-7,560.06	3,454.89	3,358.15	96.73	35.715		
12,000.00	6,901.02	6,803.00	6,441.77	149.57	53.04	66.68	1,208.44	-7,560.06	3,359.02	3,261.01	98.01	34.271		
12,100.00	6,899.94	6,803.00	6,441.77	152.34	53.04	66.68	1,208.44	-7,560.06	3,263.40	3,164.01	99.39	32.836		
12,200.00	6,898.87	6,803.00	6,441.77	155.11	53.04	66.68	1,208.44	-7,560.06	3,168.04	3,067.18	100.86	31.410		
12,300.00	6,897.79	6,803.00	6,441.77	157.89	53.04	66.68	1,208.44	-7,560.06	3,072.99	2,970.54	102.45	29.995		
12,400.00	6,896.71	6,803.00	6,441.77	160.66	53.04	66.68	1,208.44	-7,560.06	2,978.25	2,874.10	104.16	28.594		
12,500.00	6,895.63	6,803.00	6,441.77	163.44	53.04	66.68	1,208.44	-7,560.06	2,883.87	2,777.88	106.00	27.208		
12,600.00	6,894.55	6,803.00	6,441.77	166.22	53.04	66.68	1,208.44	-7,560.06	2,789.89	2,681.91	107.98	25.838		
12,700.00	6,893.47	6,803.00	6,441.77	169.00	53.04	66.68	1,208.44	-7,560.06	2,696.33	2,586.22	110.11	24.487		
12,800.00	6,892.39	6,803.00	6,441.77	171.79	53.04	66.68	1,208.44	-7,560.06	2,603.26	2,490.84	112.42	23.157		
12,900.00	6,891.32	6,803.00	6,441.77	174.57	53.04	66.68	1,208.44	-7,560.06	2,510.72	2,395.82	114.90	21.851		
13,000.00	6,890.24	6,803.00	6,441.77	177.36	53.04	66.68	1,208.44	-7,560.06	2,418.77	2,301.18	117.59	20.569		
13,100.00	6,889.16	6,803.00	6,441.77	180.15	53.04	66.68	1,208.44	-7,560.06	2,327.49	2,206.99	120.50	19.315		
13,200.00	6,888.08	6,839.20	6,475.00	182.94	53.20	68.28	1,197.58	-7,569.44	2,235.92	2,112.51	123.41	18.118		
13,300.00	6,887.00	6,847.50	6,482.56	185.74	53.24	68.65	1,195.11	-7,571.80	2,145.68	2,018.95	126.73	16.931		
13,400.00	6,885.92	6,856.36	6,490.62	188.53	53.28	69.06	1,192.48	-7,574.41	2,056.23	1,925.91	130.32	15.778		
13,500.00	6,884.84	6,892.00	6,522.72	191.32	53.44	70.72	1,181.97	-7,585.78	1,968.20	1,834.27	133.93	14.696		
13,600.00	6,883.77	6,892.00	6,522.72	194.12	53.44	70.72	1,181.97	-7,585.78	1,880.25	1,742.01	138.24	13.601		
13,700.00	6,882.69	6,892.00	6,522.72	196.92	53.44	70.72	1,181.97	-7,585.78	1,793.57	1,650.64	142.94	12.548		
13,800.00	6,881.61	6,892.00	6,522.72	199.72	53.44	70.72	1,181.97	-7,585.78	1,708.35	1,560.30	148.05	11.539		
13,900.00	6,880.53	6,892.00	6,522.72	202.52	53.44	70.72	1,181.97	-7,585.78	1,624.81	1,471.18	153.63	10.576		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - Orr State 36N-35C-M - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 20-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,879.45	6,921.21	6,548.61	205.32	53.54	72.11	1,173.46	-7,596.26	1,542.40	1,383.14	159.26	9.685			
14,100.00	6,878.37	6,934.52	6,560.26	208.12	53.59	72.76	1,169.61	-7,601.43	1,462.17	1,296.53	165.64	8.827			
14,200.00	6,877.29	6,949.16	6,572.95	210.92	53.64	73.47	1,165.40	-7,607.39	1,384.11	1,211.55	172.55	8.021			
14,300.00	6,876.22	6,982.00	6,600.94	213.73	53.76	75.08	1,156.06	-7,621.80	1,308.82	1,129.16	179.66	7.285			
14,400.00	6,875.14	6,982.00	6,600.94	216.53	53.76	75.08	1,156.06	-7,621.80	1,235.84	1,047.74	188.10	6.570			
14,500.00	6,874.06	6,982.00	6,600.94	219.34	53.76	75.08	1,156.06	-7,621.80	1,166.88	969.72	197.16	5.918			
14,600.00	6,872.98	7,017.96	6,630.68	222.15	53.84	76.87	1,146.15	-7,639.41	1,101.13	895.09	206.04	5.344			
14,700.00	6,871.90	7,038.79	6,647.40	224.95	53.90	77.90	1,140.65	-7,650.56	1,040.27	824.50	215.77	4.821			
14,800.00	6,870.82	7,071.00	6,672.42	227.76	53.98	79.50	1,132.51	-7,669.11	984.66	759.06	225.60	4.365			
14,900.00	6,869.75	7,071.00	6,672.42	230.57	53.98	79.50	1,132.51	-7,669.11	935.07	698.54	236.53	3.953			
15,000.00	6,868.67	7,117.97	6,707.14	233.38	54.04	81.79	1,121.64	-7,698.80	891.32	645.08	246.24	3.620			
15,100.00	6,867.59	7,161.00	6,737.02	236.19	54.09	83.84	1,112.94	-7,728.50	855.17	599.53	255.64	3.345			
15,200.00	6,866.51	7,189.52	6,755.78	239.00	54.10	85.16	1,107.84	-7,749.37	826.28	561.49	264.80	3.120			
15,300.00	6,865.43	7,233.10	6,782.81	241.81	54.11	87.10	1,101.02	-7,782.86	805.13	532.66	272.47	2.955			
15,400.00	6,864.35	7,279.46	6,809.30	244.63	54.10	89.04	1,095.18	-7,820.43	791.55	512.77	278.79	2.839			
15,500.00	6,863.27	7,340.00	6,840.15	247.44	54.06	91.33	1,090.14	-7,872.25	785.59	502.11	283.49	2.771			
15,538.85	6,862.85	7,351.26	6,845.39	248.53	54.04	91.72	1,089.52	-7,882.20	785.01	499.91	285.10	2.753 CC			
15,600.00	6,862.20	7,390.22	6,862.21	250.25	53.99	92.97	1,087.91	-7,917.30	786.05	498.96	287.09	2.738 ES			
15,618.10	6,862.00	7,402.18	6,866.96	250.76	53.97	93.33	1,087.59	-7,928.27	786.73	499.13	287.61	2.735 SF			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - PEANUT #1 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	-86.78	418.98	-7,441.65	7,453.44						
100.00	100.00	87.00	87.00	3.28	3.61	-86.78	418.98	-7,441.65	7,453.43	7,446.53	6.90	1,080.334			
200.00	200.00	187.00	187.00	3.34	5.80	-86.78	418.98	-7,441.65	7,453.43	7,444.29	9.14	815.798			
300.00	299.98	286.98	286.98	3.44	8.90	-138.66	418.98	-7,441.65	7,454.74	7,442.40	12.34	603.937			
400.00	399.84	386.84	386.84	3.61	12.21	-138.64	418.98	-7,441.65	7,458.67	7,442.86	15.81	471.757			
500.00	499.45	486.45	486.45	3.81	15.59	-138.59	418.98	-7,441.65	7,465.22	7,445.83	19.39	384.950			
600.00	598.70	585.70	585.70	4.06	18.99	-138.53	418.98	-7,441.65	7,474.39	7,451.35	23.04	324.422			
700.00	697.47	684.47	684.47	4.35	22.39	-138.45	418.98	-7,441.65	7,486.17	7,459.44	26.72	280.131			
800.00	795.62	782.62	782.62	4.66	25.79	-138.36	418.98	-7,441.65	7,500.55	7,470.12	30.43	246.479			
900.00	893.06	880.06	880.06	5.01	29.16	-138.24	418.98	-7,441.65	7,517.54	7,483.39	34.15	220.140			
961.44	952.51	939.51	939.51	5.25	31.23	-138.16	418.98	-7,441.65	7,529.27	7,492.83	36.44	206.643			
1,000.00	989.71	976.71	976.71	5.40	32.52	-138.21	418.98	-7,441.65	7,536.93	7,499.06	37.87	199.013			
1,100.00	1,086.20	1,073.20	1,073.20	5.81	35.87	-138.34	418.98	-7,441.65	7,556.84	7,515.24	41.61	181.632			
1,200.00	1,182.69	1,169.69	1,169.69	6.24	39.23	-138.47	418.98	-7,441.65	7,576.79	7,531.44	45.36	167.042			
1,300.00	1,279.18	1,266.18	1,266.18	6.69	42.58	-138.60	418.98	-7,441.65	7,596.78	7,547.66	49.13	154.633			
1,400.00	1,375.67	1,362.67	1,362.67	7.15	45.94	-138.73	418.98	-7,441.65	7,616.81	7,563.90	52.91	143.958			
1,500.00	1,472.15	1,459.15	1,459.15	7.62	49.30	-138.86	418.98	-7,441.65	7,636.87	7,580.17	56.70	134.683			
1,600.00	1,568.64	1,555.64	1,555.64	8.10	52.66	-138.98	418.98	-7,441.65	7,656.98	7,596.47	60.50	126.553			
1,700.00	1,665.13	1,652.13	1,652.13	8.59	56.03	-139.11	418.98	-7,441.65	7,677.12	7,612.80	64.31	119.371			
1,800.00	1,761.62	1,748.62	1,748.62	9.08	59.39	-139.24	418.98	-7,441.65	7,697.29	7,629.16	68.13	112.983			
1,900.00	1,858.11	1,845.11	1,845.11	9.58	62.75	-139.36	418.98	-7,441.65	7,717.51	7,645.56	71.95	107.266			
2,000.00	1,954.60	1,941.60	1,941.60	10.08	66.12	-139.49	418.98	-7,441.65	7,737.76	7,661.98	75.77	102.119			
2,100.00	2,051.09	2,038.09	2,038.09	10.59	69.48	-139.61	418.98	-7,441.65	7,758.04	7,678.44	79.60	97.463			
2,200.00	2,147.57	2,134.57	2,134.57	11.09	72.85	-139.74	418.98	-7,441.65	7,778.36	7,694.93	83.43	93.231			
2,300.00	2,244.06	2,231.06	2,231.06	11.61	76.21	-139.86	418.98	-7,441.65	7,798.72	7,711.45	87.27	89.368			
2,400.00	2,340.55	2,327.55	2,327.55	12.12	79.58	-139.98	418.98	-7,441.65	7,819.11	7,728.01	91.10	85.828			
2,500.00	2,437.04	2,424.04	2,424.04	12.64	82.94	-140.10	418.98	-7,441.65	7,839.54	7,744.60	94.94	82.573			
2,600.00	2,533.53	2,520.53	2,520.53	13.15	86.31	-140.22	418.98	-7,441.65	7,860.00	7,761.22	98.78	79.570			
2,700.00	2,630.02	2,617.02	2,617.02	13.67	89.67	-140.34	418.98	-7,441.65	7,880.50	7,777.87	102.62	76.791			
2,800.00	2,726.50	2,713.50	2,713.50	14.19	93.04	-140.46	418.98	-7,441.65	7,901.03	7,794.56	106.47	74.211			
2,900.00	2,822.99	2,809.99	2,809.99	14.72	96.41	-140.58	418.98	-7,441.65	7,921.59	7,811.28	110.31	71.811			
3,000.00	2,919.48	2,906.48	2,906.48	15.24	99.77	-140.70	418.98	-7,441.65	7,942.19	7,828.03	114.16	69.573			
3,100.00	3,015.97	3,002.97	3,002.97	15.76	103.14	-140.82	418.98	-7,441.65	7,962.82	7,844.82	118.00	67.479			
3,200.00	3,112.46	3,100.54	3,099.46	16.29	106.55	-140.94	418.98	-7,441.65	7,983.48	7,861.59	121.89	65.498			
3,300.00	3,208.95	3,204.05	3,195.95	16.81	110.16	-141.05	418.98	-7,441.65	8,004.18	7,878.20	125.98	63.534			
3,400.00	3,305.44	3,307.56	3,292.44	17.34	113.77	-141.17	418.98	-7,441.65	8,024.91	7,894.83	130.08	61.694			
3,500.00	3,401.92	3,388.92	3,388.92	17.87	116.61	-141.29	418.98	-7,441.65	8,045.67	7,912.27	133.40	60.313			
3,600.00	3,498.41	3,485.41	3,485.41	18.40	119.98	-141.40	418.98	-7,441.65	8,066.47	7,929.22	137.25	58.773			
3,700.00	3,594.90	3,581.90	3,581.90	18.93	123.34	-141.52	418.98	-7,441.65	8,087.29	7,946.19	141.10	57.316			
3,800.00	3,691.39	3,678.39	3,678.39	19.46	126.71	-141.63	418.98	-7,441.65	8,108.15	7,963.20	144.95	55.937			
3,900.00	3,787.88	3,774.88	3,774.88	19.99	130.08	-141.74	418.98	-7,441.65	8,129.04	7,980.24	148.80	54.630			
4,000.00	3,884.37	3,871.37	3,871.37	20.52	133.44	-141.86	418.98	-7,441.65	8,149.96	7,997.31	152.65	53.388			
4,100.00	3,980.85	3,967.85	3,967.85	21.05	136.81	-141.97	418.98	-7,441.65	8,170.91	8,014.40	156.51	52.208			
4,200.00	4,077.34	4,064.34	4,064.34	21.58	140.18	-142.08	418.98	-7,441.65	8,191.89	8,031.53	160.36	51.085			
4,300.00	4,173.83	4,160.83	4,160.83	22.11	143.55	-142.19	418.98	-7,441.65	8,212.90	8,048.69	164.21	50.014			
4,390.25	4,260.91	4,247.91	4,247.91	22.59	146.59	-142.29	418.98	-7,441.65	8,231.89	8,064.21	167.69	49.090			
4,400.00	4,270.32	4,257.32	4,257.32	22.64	146.91	-142.33	418.98	-7,441.65	8,233.93	8,065.87	168.06	48.993			
4,500.00	4,367.33	4,354.33	4,354.33	23.16	150.30	-142.67	418.98	-7,441.65	8,253.38	8,081.46	171.93	48.005			
4,600.00	4,465.13	4,452.13	4,452.13	23.65	153.71	-142.96	418.98	-7,441.65	8,270.13	8,094.33	175.80	47.042			
4,700.00	4,563.60	4,550.60	4,550.60	24.12	157.15	-143.20	418.98	-7,441.65	8,284.14	8,104.45	179.69	46.103			
4,800.00	4,662.61	4,649.61	4,649.61	24.56	160.61	-143.40	418.98	-7,441.65	8,295.38	8,111.80	183.58	45.187			
4,900.00	4,762.05	4,749.05	4,749.05	24.98	164.08	-143.54	418.98	-7,441.65	8,303.84	8,116.37	187.47	44.294			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - PEANUT #1 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,848.80	4,848.80	25.38	167.56	-143.64	418.98	-7,441.65	8,309.51	8,118.15	191.36	43.424			
5,100.00	4,961.73	4,948.73	4,948.73	25.76	171.05	-143.69	418.98	-7,441.65	8,312.37	8,117.13	195.24	42.576			
5,151.69	5,013.42	5,000.42	5,000.42	25.95	172.85	-91.80	418.98	-7,441.65	8,312.74	8,115.51	197.24	42.146			
5,200.00	5,061.73	5,048.73	5,048.73	26.13	174.54	-91.80	418.98	-7,441.65	8,312.74	8,113.64	199.10	41.751			
5,300.00	5,161.73	5,148.73	5,148.73	26.49	178.03	-91.80	418.98	-7,441.65	8,312.74	8,109.78	202.97	40.956			
5,400.00	5,261.73	5,248.73	5,248.73	26.86	181.52	-91.80	418.98	-7,441.65	8,312.74	8,105.91	206.83	40.190			
5,500.00	5,361.73	5,348.73	5,348.73	27.23	185.01	-91.80	418.98	-7,441.65	8,312.74	8,102.04	210.70	39.452			
5,600.00	5,461.73	5,448.73	5,448.73	27.60	188.50	-91.80	418.98	-7,441.65	8,312.74	8,098.17	214.57	38.741			
5,700.00	5,561.73	5,548.73	5,548.73	27.97	191.99	-91.80	418.98	-7,441.65	8,312.74	8,094.30	218.45	38.054			
5,800.00	5,661.73	5,648.73	5,648.73	28.35	195.48	-91.80	418.98	-7,441.65	8,312.74	8,090.42	222.32	37.391			
5,900.00	5,761.73	5,748.73	5,748.73	28.72	198.97	-91.80	418.98	-7,441.65	8,312.74	8,086.55	226.20	36.750			
6,000.00	5,861.73	5,848.73	5,848.73	29.10	202.46	-91.80	418.98	-7,441.65	8,312.74	8,082.67	230.08	36.130			
6,100.00	5,961.73	5,948.73	5,948.73	29.48	205.95	-91.80	418.98	-7,441.65	8,312.74	8,078.79	233.96	35.531			
6,200.00	6,061.73	6,048.73	6,048.73	29.86	209.44	-91.80	418.98	-7,441.65	8,312.74	8,074.91	237.84	34.952			
6,300.00	6,161.73	6,148.73	6,148.73	30.25	212.93	-91.80	418.98	-7,441.65	8,312.74	8,071.03	241.72	34.390			
6,400.00	6,261.73	6,248.73	6,248.73	30.63	216.42	-91.80	418.98	-7,441.65	8,312.74	8,067.14	245.60	33.846			
6,451.69	6,313.42	6,300.42	6,300.42	30.83	218.23	-91.80	418.98	-7,441.65	8,312.74	8,065.13	247.61	33.572			
6,500.00	6,361.68	6,348.68	6,348.68	31.01	219.91	0.66	418.98	-7,441.65	8,310.91	8,061.44	249.48	33.314			
6,550.00	6,411.34	6,401.66	6,398.34	31.20	221.76	0.67	418.98	-7,441.65	8,305.17	8,053.67	251.50	33.023			
6,600.00	6,460.39	6,447.39	6,447.39	31.38	223.36	0.68	418.98	-7,441.65	8,295.55	8,042.30	253.25	32.756			
6,650.00	6,508.54	6,504.46	6,495.54	31.58	225.35	0.70	418.98	-7,441.65	8,282.11	8,026.72	255.39	32.429			
6,700.00	6,555.48	6,542.48	6,542.48	31.78	226.68	0.72	418.98	-7,441.65	8,264.93	8,008.09	256.85	32.178			
6,750.00	6,600.93	6,587.93	6,587.93	31.98	228.26	0.75	418.98	-7,441.65	8,244.13	7,985.58	258.55	31.886			
6,800.00	6,644.61	6,631.61	6,631.61	32.20	229.79	0.78	418.98	-7,441.65	8,219.82	7,959.64	260.18	31.593			
6,850.00	6,686.25	6,673.25	6,673.25	32.44	231.24	0.83	418.98	-7,441.65	8,192.16	7,930.44	261.72	31.301			
6,900.00	6,725.58	6,712.58	6,712.58	32.68	232.61	0.88	418.98	-7,441.65	8,161.32	7,898.16	263.16	31.012			
6,950.00	6,762.38	6,749.38	6,749.38	32.96	233.90	0.95	418.98	-7,441.65	8,127.49	7,862.98	264.51	30.727			
7,000.00	6,796.41	6,783.41	6,783.41	33.25	235.09	1.04	418.98	-7,441.65	8,090.88	7,825.13	265.74	30.446			
7,050.00	6,827.46	6,814.46	6,814.46	33.58	236.17	1.16	418.98	-7,441.65	8,051.71	7,784.84	266.86	30.172			
7,100.00	6,855.34	6,842.34	6,842.34	33.93	237.14	1.31	418.98	-7,441.65	8,010.22	7,742.36	267.86	29.904			
7,150.00	6,879.88	6,866.88	6,866.88	34.33	238.00	1.51	418.98	-7,441.65	7,966.67	7,697.94	268.74	29.645			
7,200.00	6,900.93	6,887.93	6,887.93	34.76	238.74	1.80	418.98	-7,441.65	7,921.34	7,651.86	269.48	29.395			
7,250.00	6,918.36	6,905.36	6,905.36	35.23	239.34	2.24	418.98	-7,441.65	7,874.49	7,604.40	270.09	29.155			
7,300.00	6,932.05	6,919.05	6,919.05	35.74	239.82	2.97	418.98	-7,441.65	7,826.42	7,555.85	270.57	28.926			
7,350.00	6,941.94	6,928.94	6,928.94	36.29	240.17	4.43	418.98	-7,441.65	7,777.42	7,506.51	270.91	28.708			
7,400.00	6,947.94	6,934.94	6,934.94	36.87	240.38	8.69	418.98	-7,441.65	7,727.80	7,456.68	271.12	28.503			
7,450.00	6,950.04	6,937.04	6,937.04	37.47	240.45	77.98	418.98	-7,441.65	7,677.86	7,406.67	271.19	28.311			
7,458.56	6,950.00	6,937.00	6,937.00	37.58	240.45	130.80	418.98	-7,441.65	7,669.31	7,398.11	271.19	28.280			
7,500.00	6,949.56	6,936.56	6,936.56	38.11	240.43	130.65	418.98	-7,441.65	7,627.87	7,356.69	271.18	28.128			
7,600.00	6,948.48	6,935.48	6,935.48	39.51	240.39	130.27	418.98	-7,441.65	7,527.88	7,256.73	271.15	27.763			
7,700.00	6,947.40	6,934.40	6,934.40	41.06	240.36	129.89	418.98	-7,441.65	7,427.90	7,156.78	271.12	27.397			
7,800.00	6,946.32	6,933.32	6,933.32	42.74	240.32	129.51	418.98	-7,441.65	7,327.91	7,056.82	271.09	27.031			
7,900.00	6,945.24	6,932.24	6,932.24	44.55	240.28	129.13	418.98	-7,441.65	7,227.93	6,956.86	271.07	26.665			
8,000.00	6,944.16	6,931.16	6,931.16	46.46	240.24	128.74	418.98	-7,441.65	7,127.94	6,856.90	271.04	26.298			
8,100.00	6,943.08	6,930.08	6,930.08	48.47	240.21	128.34	418.98	-7,441.65	7,027.96	6,756.94	271.02	25.932			
8,200.00	6,942.01	6,929.01	6,929.01	50.55	240.17	127.94	418.98	-7,441.65	6,927.97	6,656.97	271.00	25.565			
8,300.00	6,940.93	6,927.93	6,927.93	52.71	240.13	127.54	418.98	-7,441.65	6,827.99	6,557.01	270.97	25.198			
8,400.00	6,939.85	6,926.85	6,926.85	54.93	240.09	127.13	418.98	-7,441.65	6,728.00	6,457.05	270.95	24.831			
8,500.00	6,938.77	6,925.77	6,925.77	57.20	240.06	126.72	418.98	-7,441.65	6,628.02	6,357.08	270.94	24.463			
8,600.00	6,937.69	6,924.69	6,924.69	59.53	240.02	126.30	418.98	-7,441.65	6,528.03	6,257.12	270.92	24.096			
8,700.00	6,936.61	6,923.61	6,923.61	61.89	239.98	125.88	418.98	-7,441.65	6,428.05	6,157.15	270.90	23.728			
8,800.00	6,935.54	6,922.54	6,922.54	64.30	239.94	125.46	418.98	-7,441.65	6,328.07	6,057.18	270.89	23.361			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - PEANUT #1 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2" Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	6,934.46	6,921.46	6,921.46	66.74	239.91	125.03	418.98	-7,441.65	6,228.09	5,957.21	270.87	22.993		
9,000.00	6,933.38	6,920.38	6,920.38	69.21	239.87	124.59	418.98	-7,441.65	6,128.10	5,857.24	270.86	22.624		
9,100.00	6,932.30	6,919.30	6,919.30	71.71	239.83	124.15	418.98	-7,441.65	6,028.12	5,757.27	270.85	22.256		
9,200.00	6,931.22	6,918.22	6,918.22	74.23	239.79	123.71	418.98	-7,441.65	5,928.14	5,657.30	270.84	21.888		
9,300.00	6,930.14	6,917.14	6,917.14	76.78	239.75	123.26	418.98	-7,441.65	5,828.16	5,557.32	270.83	21.519		
9,400.00	6,929.06	6,916.06	6,916.06	79.34	239.72	122.81	418.98	-7,441.65	5,728.18	5,457.35	270.83	21.151		
9,500.00	6,927.99	6,914.99	6,914.99	81.93	239.68	122.35	418.98	-7,441.65	5,628.20	5,357.38	270.82	20.782		
9,600.00	6,926.91	6,913.91	6,913.91	84.53	239.64	121.89	418.98	-7,441.65	5,528.22	5,257.40	270.82	20.413		
9,700.00	6,925.83	6,912.83	6,912.83	87.14	239.60	121.42	418.98	-7,441.65	5,428.24	5,157.42	270.82	20.044		
9,800.00	6,924.75	6,911.75	6,911.75	89.77	239.57	120.95	418.98	-7,441.65	5,328.26	5,057.44	270.82	19.675		
9,900.00	6,923.67	6,910.67	6,910.67	92.41	239.53	120.47	418.98	-7,441.65	5,228.28	4,957.46	270.82	19.305		
10,000.00	6,922.59	6,909.59	6,909.59	95.07	239.49	119.99	418.98	-7,441.65	5,128.31	4,857.48	270.82	18.936		
10,100.00	6,921.51	6,908.51	6,908.51	97.73	239.45	119.50	418.98	-7,441.65	5,028.33	4,757.50	270.83	18.567		
10,200.00	6,920.44	6,907.44	6,907.44	100.40	239.42	119.01	418.98	-7,441.65	4,928.36	4,657.52	270.83	18.197		
10,300.00	6,919.36	6,906.36	6,906.36	103.08	239.38	118.52	418.98	-7,441.65	4,828.38	4,557.54	270.84	17.827		
10,400.00	6,918.28	6,905.28	6,905.28	105.77	239.34	118.02	418.98	-7,441.65	4,728.41	4,457.55	270.85	17.458		
10,500.00	6,917.20	6,904.20	6,904.20	108.47	239.30	117.51	418.98	-7,441.65	4,628.43	4,357.57	270.86	17.088		
10,600.00	6,916.12	6,903.12	6,903.12	111.18	239.27	117.00	418.98	-7,441.65	4,528.46	4,257.58	270.88	16.718		
10,700.00	6,915.04	6,902.04	6,902.04	113.89	239.23	116.49	418.98	-7,441.65	4,428.49	4,157.60	270.89	16.348		
10,800.00	6,913.96	6,900.96	6,900.96	116.61	239.19	115.97	418.98	-7,441.65	4,328.52	4,057.61	270.91	15.978		
10,900.00	6,912.89	6,900.11	6,899.89	119.33	239.16	115.45	418.98	-7,441.65	4,228.55	3,957.61	270.94	15.607		
11,000.00	6,911.81	6,901.19	6,898.81	122.06	239.20	114.92	418.98	-7,441.65	4,128.58	3,857.55	271.04	15.233		
11,100.00	6,910.73	6,902.27	6,897.73	124.79	239.24	114.39	418.98	-7,441.65	4,028.62	3,757.48	271.14	14.858		
11,200.00	6,909.65	6,903.35	6,896.65	127.53	239.27	113.85	418.98	-7,441.65	3,928.65	3,657.41	271.24	14.484		
11,300.00	6,908.57	6,904.43	6,895.57	130.27	239.31	113.31	418.98	-7,441.65	3,828.69	3,557.34	271.34	14.110		
11,400.00	6,907.49	6,905.51	6,894.49	133.02	239.35	112.76	418.98	-7,441.65	3,728.73	3,457.27	271.45	13.736		
11,500.00	6,906.41	6,906.59	6,893.41	135.77	239.39	112.21	418.98	-7,441.65	3,628.77	3,357.20	271.56	13.362		
11,600.00	6,905.34	6,907.66	6,892.34	138.52	239.42	111.65	418.98	-7,441.65	3,528.81	3,257.13	271.68	12.989		
11,700.00	6,904.26	6,908.74	6,891.26	141.28	239.46	111.10	418.98	-7,441.65	3,428.85	3,157.05	271.80	12.616		
11,800.00	6,903.18	6,909.82	6,890.18	144.04	239.50	110.53	418.98	-7,441.65	3,328.90	3,056.98	271.92	12.242		
11,900.00	6,902.10	6,889.10	6,889.10	146.80	238.78	109.96	418.98	-7,441.65	3,228.95	2,957.66	271.28	11.902		
12,000.00	6,901.02	6,888.02	6,888.02	149.57	238.74	109.39	418.98	-7,441.65	3,129.00	2,857.66	271.34	11.532		
12,100.00	6,899.94	6,886.94	6,886.94	152.34	238.70	108.82	418.98	-7,441.65	3,029.05	2,757.65	271.40	11.161		
12,200.00	6,898.87	6,885.87	6,885.87	155.11	238.66	108.24	418.98	-7,441.65	2,929.11	2,657.64	271.47	10.790		
12,300.00	6,897.79	6,884.79	6,884.79	157.89	238.63	107.65	418.98	-7,441.65	2,829.17	2,557.63	271.54	10.419		
12,400.00	6,896.71	6,883.71	6,883.71	160.66	238.59	107.07	418.98	-7,441.65	2,729.23	2,457.61	271.62	10.048		
12,500.00	6,895.63	6,882.63	6,882.63	163.44	238.55	106.48	418.98	-7,441.65	2,629.30	2,357.60	271.71	9.677		
12,600.00	6,894.55	6,881.55	6,881.55	166.22	238.51	105.88	418.98	-7,441.65	2,529.38	2,257.57	271.81	9.306		
12,700.00	6,893.47	6,880.47	6,880.47	169.00	238.47	105.28	418.98	-7,441.65	2,429.46	2,157.54	271.92	8.935		
12,800.00	6,892.39	6,879.39	6,879.39	171.79	238.44	104.68	418.98	-7,441.65	2,329.55	2,057.51	272.04	8.563		
12,900.00	6,891.32	6,878.32	6,878.32	174.57	238.40	104.08	418.98	-7,441.65	2,229.64	1,957.47	272.17	8.192		
13,000.00	6,890.24	6,877.24	6,877.24	177.36	238.36	103.47	418.98	-7,441.65	2,129.74	1,857.42	272.32	7.821		
13,100.00	6,889.16	6,876.16	6,876.16	180.15	238.32	102.86	418.98	-7,441.65	2,029.86	1,757.36	272.50	7.449		
13,200.00	6,888.08	6,875.08	6,875.08	182.94	238.29	102.24	418.98	-7,441.65	1,929.98	1,657.28	272.69	7.077		
13,300.00	6,887.00	6,874.00	6,874.00	185.74	238.25	101.62	418.98	-7,441.65	1,830.11	1,557.19	272.92	6.706		
13,400.00	6,885.92	6,872.92	6,872.92	188.53	238.21	101.00	418.98	-7,441.65	1,730.27	1,457.08	273.18	6.334		
13,500.00	6,884.84	6,871.84	6,871.84	191.32	238.17	100.38	418.98	-7,441.65	1,630.43	1,356.95	273.49	5.962		
13,600.00	6,883.77	6,870.77	6,870.77	194.12	238.14	99.76	418.98	-7,441.65	1,530.62	1,256.78	273.85	5.589		
13,700.00	6,882.69	6,869.69	6,869.69	196.92	238.10	99.13	418.98	-7,441.65	1,430.84	1,156.56	274.28	5.217		
13,800.00	6,881.61	6,868.61	6,868.61	199.72	238.06	98.50	418.98	-7,441.65	1,331.09	1,056.29	274.80	4.844		
13,900.00	6,880.53	6,867.53	6,867.53	202.52	238.02	97.87	418.98	-7,441.65	1,231.37	955.94	275.43	4.471		
14,000.00	6,879.45	6,866.45	6,866.45	205.32	237.99	97.23	418.98	-7,441.65	1,131.71	855.48	276.23	4.097		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - PEANUT #1 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2° Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,878.37	6,865.37	6,865.37	208.12	237.95	96.60	418.98	-7,441.65	1,032.11	754.88	277.23	3.723		
14,200.00	6,877.29	6,864.29	6,864.29	210.92	237.91	95.96	418.98	-7,441.65	932.59	654.06	278.53	3.348		
14,300.00	6,876.22	6,863.22	6,863.22	213.73	237.87	95.32	418.98	-7,441.65	833.19	552.94	280.25	2.973		
14,400.00	6,875.14	6,862.14	6,862.14	216.53	237.83	94.68	418.98	-7,441.65	733.95	451.35	282.60	2.597		
14,500.00	6,874.06	6,861.06	6,861.06	219.34	237.80	94.04	418.98	-7,441.65	634.95	349.04	285.91	2.221		
14,600.00	6,872.98	6,859.98	6,859.98	222.15	237.76	93.40	418.98	-7,441.65	536.31	245.54	290.77	1.844		
14,700.00	6,871.90	6,858.90	6,858.90	224.95	237.72	92.76	418.98	-7,441.65	438.29	139.98	298.31	1.469	Level 3	
14,800.00	6,870.82	6,857.82	6,857.82	227.76	237.68	92.11	418.98	-7,441.65	341.41	30.57	310.85	1.098	Level 2	
14,900.00	6,869.75	6,856.75	6,856.75	230.57	237.65	91.47	418.98	-7,441.65	247.04	-86.83	333.87	0.740	Level 1	
15,000.00	6,868.67	6,855.67	6,855.67	233.38	237.61	90.82	418.98	-7,441.65	159.66	-221.97	381.62	0.418	Level 1	
15,100.00	6,867.59	6,854.59	6,854.59	236.19	237.57	90.18	418.98	-7,441.65	99.75	-365.38	465.13	0.214	Level 1	
15,127.71	6,867.29	6,854.29	6,854.29	236.97	237.56	90.00	418.98	-7,441.65	95.82	-378.70	474.53	0.202	Level 1, CC, ES, SF	
15,200.00	6,866.51	6,853.51	6,853.51	239.00	237.53	89.53	418.98	-7,441.65	120.03	-308.40	428.43	0.280	Level 1	
15,300.00	6,865.43	6,852.43	6,852.43	241.81	237.50	88.89	418.98	-7,441.65	197.14	-160.23	357.36	0.552	Level 1	
15,400.00	6,864.35	6,851.35	6,851.35	244.63	237.46	88.24	418.98	-7,441.65	288.64	-34.78	323.42	0.892	Level 1	
15,500.00	6,863.27	6,850.27	6,850.27	247.44	237.42	87.60	418.98	-7,441.65	384.40	78.29	306.11	1.256	Level 3	
15,600.00	6,862.20	6,849.20	6,849.20	250.25	237.38	86.96	418.98	-7,441.65	481.89	185.68	296.20	1.627		
15,618.10	6,862.00	6,849.00	6,849.00	250.76	237.38	86.84	418.98	-7,441.65	499.63	204.76	294.87	1.694		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - REICHERT #1-6 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	35.00	35.00	3.28	3.34	-85.69	449.90	-5,976.02	5,992.94						
100.00	100.00	135.00	135.00	3.28	4.42	-85.69	449.90	-5,976.02	5,992.94	5,985.23	7.71	777.519			
200.00	200.00	235.00	235.00	3.34	7.24	-85.69	449.90	-5,976.02	5,992.94	5,982.35	10.58	566.410			
300.00	299.98	334.98	334.98	3.44	10.48	-137.58	449.90	-5,976.02	5,994.22	5,980.30	13.92	430.635			
400.00	399.84	434.84	434.84	3.61	13.83	-137.56	449.90	-5,976.02	5,998.09	5,980.66	17.43	344.090			
500.00	499.45	534.45	534.45	3.81	17.23	-137.53	449.90	-5,976.02	6,004.53	5,983.50	21.03	285.463			
600.00	598.70	633.70	633.70	4.06	20.64	-137.49	449.90	-5,976.02	6,013.55	5,988.86	24.69	243.548			
700.00	697.47	732.47	732.47	4.35	24.05	-137.43	449.90	-5,976.02	6,025.14	5,996.76	28.38	212.284			
800.00	795.62	830.62	830.62	4.66	27.45	-137.36	449.90	-5,976.02	6,039.30	6,007.21	32.09	188.178			
900.00	893.06	928.06	928.06	5.01	30.83	-137.27	449.90	-5,976.02	6,056.03	6,020.22	35.81	169.094			
961.44	952.51	987.51	987.51	5.25	32.89	-137.21	449.90	-5,976.02	6,067.59	6,029.48	38.10	159.241			
1,000.00	989.71	1,024.71	1,024.71	5.40	34.18	-137.27	449.90	-5,976.02	6,075.14	6,035.60	39.54	153.647			
1,100.00	1,086.20	1,121.20	1,121.20	5.81	37.54	-137.44	449.90	-5,976.02	6,094.78	6,051.50	43.28	140.837			
1,200.00	1,182.69	1,217.69	1,217.69	6.24	40.90	-137.60	449.90	-5,976.02	6,114.46	6,067.43	47.03	130.010			
1,300.00	1,279.18	1,314.18	1,314.18	6.69	44.25	-137.76	449.90	-5,976.02	6,134.20	6,083.40	50.80	120.749			
1,400.00	1,375.67	1,410.67	1,410.67	7.15	47.61	-137.93	449.90	-5,976.02	6,153.98	6,099.40	54.58	112.742			
1,500.00	1,472.15	1,507.15	1,507.15	7.62	50.97	-138.09	449.90	-5,976.02	6,173.81	6,115.43	58.38	105.755			
1,600.00	1,568.64	1,603.64	1,603.64	8.10	54.34	-138.25	449.90	-5,976.02	6,193.69	6,131.51	62.18	99.607			
1,700.00	1,665.13	1,700.13	1,700.13	8.59	57.70	-138.41	449.90	-5,976.02	6,213.62	6,147.63	65.99	94.159			
1,800.00	1,761.62	1,803.38	1,796.62	9.08	61.30	-138.56	449.90	-5,976.02	6,233.59	6,163.55	70.04	88.998			
1,900.00	1,858.11	1,906.89	1,893.11	9.58	64.91	-138.72	449.90	-5,976.02	6,253.61	6,179.50	74.11	84.386			
2,000.00	1,954.60	1,989.60	1,989.60	10.08	67.79	-138.88	449.90	-5,976.02	6,273.68	6,196.22	77.45	81.001			
2,100.00	2,051.09	2,086.09	2,086.09	10.59	71.16	-139.03	449.90	-5,976.02	6,293.79	6,212.51	81.28	77.433			
2,200.00	2,147.57	2,182.57	2,182.57	11.09	74.52	-139.18	449.90	-5,976.02	6,313.94	6,228.83	85.11	74.184			
2,300.00	2,244.06	2,279.06	2,279.06	11.61	77.89	-139.34	449.90	-5,976.02	6,334.15	6,245.20	88.95	71.213			
2,400.00	2,340.55	2,375.55	2,375.55	12.12	81.25	-139.49	449.90	-5,976.02	6,354.39	6,261.61	92.78	68.487			
2,500.00	2,437.04	2,472.04	2,472.04	12.64	84.62	-139.64	449.90	-5,976.02	6,374.68	6,278.06	96.62	65.976			
2,600.00	2,533.53	2,568.53	2,568.53	13.15	87.98	-139.79	449.90	-5,976.02	6,395.02	6,294.55	100.46	63.656			
2,700.00	2,630.02	2,665.02	2,665.02	13.67	91.35	-139.94	449.90	-5,976.02	6,415.39	6,311.09	104.30	61.506			
2,800.00	2,726.50	2,761.50	2,761.50	14.19	94.72	-140.09	449.90	-5,976.02	6,435.81	6,327.66	108.15	59.509			
2,900.00	2,822.99	2,857.99	2,857.99	14.72	98.08	-140.24	449.90	-5,976.02	6,456.27	6,344.28	111.99	57.649			
3,000.00	2,919.48	2,954.48	2,954.48	15.24	101.45	-140.38	449.90	-5,976.02	6,476.78	6,360.94	115.84	55.912			
3,100.00	3,015.97	3,050.97	3,050.97	15.76	104.82	-140.53	449.90	-5,976.02	6,497.32	6,377.64	119.68	54.287			
3,200.00	3,112.46	3,147.46	3,147.46	16.29	108.18	-140.67	449.90	-5,976.02	6,517.91	6,394.38	123.53	52.763			
3,300.00	3,208.95	3,243.95	3,243.95	16.81	111.55	-140.82	449.90	-5,976.02	6,538.53	6,411.15	127.38	51.331			
3,400.00	3,305.44	3,340.44	3,340.44	17.34	114.92	-140.96	449.90	-5,976.02	6,559.20	6,427.97	131.23	49.983			
3,500.00	3,401.92	3,436.92	3,436.92	17.87	118.28	-141.10	449.90	-5,976.02	6,579.91	6,444.83	135.08	48.712			
3,600.00	3,498.41	3,533.41	3,533.41	18.40	121.65	-141.24	449.90	-5,976.02	6,600.65	6,461.73	138.93	47.511			
3,700.00	3,594.90	3,629.90	3,629.90	18.93	125.02	-141.38	449.90	-5,976.02	6,621.44	6,478.66	142.78	46.376			
3,800.00	3,691.39	3,726.39	3,726.39	19.46	128.38	-141.52	449.90	-5,976.02	6,642.26	6,495.64	146.63	45.300			
3,900.00	3,787.88	3,822.88	3,822.88	19.99	131.75	-141.66	449.90	-5,976.02	6,663.13	6,512.65	150.48	44.279			
4,000.00	3,884.37	3,919.37	3,919.37	20.52	135.12	-141.80	449.90	-5,976.02	6,684.03	6,529.70	154.33	43.310			
4,100.00	3,980.85	4,015.85	4,015.85	21.05	138.49	-141.94	449.90	-5,976.02	6,704.97	6,546.79	158.18	42.388			
4,200.00	4,077.34	4,112.34	4,112.34	21.58	141.85	-142.07	449.90	-5,976.02	6,725.94	6,563.91	162.03	41.509			
4,300.00	4,173.83	4,208.83	4,208.83	22.11	145.22	-142.21	449.90	-5,976.02	6,746.96	6,581.07	165.89	40.672			
4,390.25	4,260.91	4,304.09	4,295.91	22.59	148.55	-142.33	449.90	-5,976.02	6,765.95	6,596.31	169.65	39.882			
4,400.00	4,270.32	4,305.32	4,305.32	22.64	148.59	-142.37	449.90	-5,976.02	6,768.00	6,598.26	169.74	39.873			
4,500.00	4,367.33	4,402.33	4,402.33	23.16	151.98	-142.73	449.90	-5,976.02	6,787.46	6,613.86	173.60	39.098			
4,600.00	4,465.13	4,500.13	4,500.13	23.65	155.39	-143.04	449.90	-5,976.02	6,804.22	6,626.74	177.47	38.339			
4,700.00	4,563.60	4,601.40	4,598.60	24.12	158.92	-143.30	449.90	-5,976.02	6,818.24	6,636.78	181.46	37.575			
4,800.00	4,662.61	4,702.39	4,697.61	24.56	162.45	-143.50	449.90	-5,976.02	6,829.50	6,644.08	185.42	36.833			
4,900.00	4,762.05	4,802.95	4,797.05	24.98	165.96	-143.66	449.90	-5,976.02	6,837.98	6,648.63	189.35	36.114			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - REICHERT #1-6 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2° Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,903.20	4,896.80	25.38	169.46	-143.76	449.90	-5,976.02	6,843.65	6,650.40	193.25	35.413			
5,100.00	4,961.73	5,003.27	4,996.73	25.76	172.95	-143.81	449.90	-5,976.02	6,846.52	6,649.38	197.14	34.730			
5,151.69	5,013.42	5,048.42	5,048.42	25.95	174.53	-91.93	449.90	-5,976.02	6,846.89	6,647.98	198.91	34.422			
5,200.00	5,061.73	5,103.27	5,096.73	26.13	176.44	-91.93	449.90	-5,976.02	6,846.89	6,645.89	201.00	34.064			
5,300.00	5,161.73	5,203.27	5,196.73	26.49	179.93	-91.93	449.90	-5,976.02	6,846.89	6,642.02	204.87	33.421			
5,400.00	5,261.73	5,303.27	5,296.73	26.86	183.42	-91.93	449.90	-5,976.02	6,846.89	6,638.16	208.73	32.802			
5,500.00	5,361.73	5,403.27	5,396.73	27.23	186.91	-91.93	449.90	-5,976.02	6,846.89	6,634.29	212.60	32.205			
5,600.00	5,461.73	5,503.27	5,496.73	27.60	190.40	-91.93	449.90	-5,976.02	6,846.89	6,630.42	216.47	31.629			
5,700.00	5,561.73	5,603.27	5,596.73	27.97	193.89	-91.93	449.90	-5,976.02	6,846.89	6,626.54	220.35	31.073			
5,800.00	5,661.73	5,703.27	5,696.73	28.35	197.38	-91.93	449.90	-5,976.02	6,846.89	6,622.67	224.22	30.536			
5,900.00	5,761.73	5,803.27	5,796.73	28.72	200.87	-91.93	449.90	-5,976.02	6,846.89	6,618.79	228.10	30.017			
6,000.00	5,861.73	5,903.27	5,896.73	29.10	204.36	-91.93	449.90	-5,976.02	6,846.89	6,614.92	231.98	29.515			
6,100.00	5,961.73	6,003.27	5,996.73	29.48	207.86	-91.93	449.90	-5,976.02	6,846.89	6,611.04	235.86	29.030			
6,200.00	6,061.73	6,103.27	6,096.73	29.86	211.35	-91.93	449.90	-5,976.02	6,846.89	6,607.16	239.74	28.560			
6,300.00	6,161.73	6,203.27	6,196.73	30.25	214.84	-91.93	449.90	-5,976.02	6,846.89	6,603.27	243.62	28.105			
6,400.00	6,261.73	6,303.27	6,296.73	30.63	218.33	-91.93	449.90	-5,976.02	6,846.89	6,599.39	247.50	27.664			
6,451.69	6,313.42	6,348.42	6,348.42	30.83	219.90	-91.93	449.90	-5,976.02	6,846.89	6,597.61	249.28	27.466			
6,500.00	6,361.68	6,403.32	6,396.68	31.01	221.82	0.54	449.90	-5,976.02	6,845.06	6,593.68	251.38	27.230			
6,550.00	6,411.34	6,446.34	6,446.34	31.20	223.32	0.54	449.90	-5,976.02	6,839.32	6,586.26	253.05	27.027			
6,600.00	6,460.39	6,504.61	6,495.39	31.38	225.35	0.55	449.90	-5,976.02	6,829.70	6,574.45	255.24	26.757			
6,650.00	6,508.54	6,543.54	6,543.54	31.58	226.71	0.56	449.90	-5,976.02	6,816.26	6,559.51	256.75	26.548			
6,700.00	6,555.48	6,609.52	6,590.48	31.78	229.02	0.58	449.90	-5,976.02	6,799.08	6,539.90	259.18	26.233			
6,750.00	6,600.93	6,635.93	6,635.93	31.98	229.94	0.60	449.90	-5,976.02	6,778.27	6,518.05	260.22	26.048			
6,800.00	6,644.61	6,679.61	6,679.61	32.20	231.46	0.63	449.90	-5,976.02	6,753.97	6,492.12	261.85	25.793			
6,850.00	6,686.25	6,721.25	6,721.25	32.44	232.92	0.67	449.90	-5,976.02	6,726.31	6,462.92	263.39	25.537			
6,900.00	6,725.58	6,760.58	6,760.58	32.68	234.29	0.72	449.90	-5,976.02	6,695.46	6,430.63	264.84	25.282			
6,950.00	6,762.38	6,802.62	6,797.38	32.96	235.76	0.77	449.90	-5,976.02	6,661.63	6,395.27	266.36	25.010			
7,000.00	6,796.41	6,831.41	6,831.41	33.25	236.76	0.85	449.90	-5,976.02	6,625.02	6,357.60	267.41	24.774			
7,050.00	6,827.46	6,862.46	6,862.46	33.58	237.85	0.94	449.90	-5,976.02	6,585.85	6,317.31	268.53	24.525			
7,100.00	6,855.34	6,909.66	6,890.34	33.93	239.49	1.06	449.90	-5,976.02	6,544.36	6,274.15	270.21	24.220			
7,150.00	6,879.88	6,914.88	6,914.88	34.33	239.68	1.23	449.90	-5,976.02	6,500.81	6,230.41	270.41	24.041			
7,200.00	6,900.93	6,935.93	6,935.93	34.76	240.41	1.47	449.90	-5,976.02	6,455.48	6,184.33	271.15	23.808			
7,250.00	6,918.36	6,953.36	6,953.36	35.23	241.02	1.83	449.90	-5,976.02	6,408.63	6,136.87	271.76	23.582			
7,300.00	6,932.05	6,967.05	6,967.05	35.74	241.50	2.43	449.90	-5,976.02	6,360.55	6,088.32	272.24	23.364			
7,350.00	6,941.94	6,976.94	6,976.94	36.29	241.84	3.64	449.90	-5,976.02	6,311.56	6,038.98	272.58	23.155			
7,400.00	6,947.94	6,982.94	6,982.94	36.87	242.05	7.16	449.90	-5,976.02	6,261.93	5,989.15	272.79	22.955			
7,450.00	6,950.04	6,985.04	6,985.04	37.47	242.12	75.50	449.90	-5,976.02	6,211.99	5,939.13	272.86	22.766			
7,458.56	6,950.00	6,985.00	6,985.00	37.58	242.12	136.35	449.90	-5,976.02	6,203.44	5,930.57	272.86	22.735			
7,500.00	6,949.56	6,984.56	6,984.56	38.11	242.11	136.16	449.90	-5,976.02	6,162.00	5,889.15	272.85	22.584			
7,600.00	6,948.48	6,983.48	6,983.48	39.51	242.07	135.69	449.90	-5,976.02	6,062.01	5,789.19	272.82	22.220			
7,700.00	6,947.40	6,982.40	6,982.40	41.06	242.03	135.22	449.90	-5,976.02	5,962.02	5,689.23	272.79	21.856			
7,800.00	6,946.32	6,981.32	6,981.32	42.74	242.00	134.73	449.90	-5,976.02	5,862.03	5,589.27	272.76	21.491			
7,900.00	6,945.24	6,980.24	6,980.24	44.55	241.96	134.24	449.90	-5,976.02	5,762.05	5,489.31	272.73	21.127			
8,000.00	6,944.16	6,979.16	6,979.16	46.46	241.92	133.74	449.90	-5,976.02	5,662.06	5,389.35	272.71	20.762			
8,100.00	6,943.08	6,978.08	6,978.08	48.47	241.88	133.23	449.90	-5,976.02	5,562.07	5,289.39	272.68	20.397			
8,200.00	6,942.01	6,977.01	6,977.01	50.55	241.84	132.71	449.90	-5,976.02	5,462.08	5,189.42	272.66	20.032			
8,300.00	6,940.93	6,975.93	6,975.93	52.71	241.81	132.18	449.90	-5,976.02	5,362.09	5,089.46	272.64	19.667			
8,400.00	6,939.85	6,974.85	6,974.85	54.93	241.77	131.65	449.90	-5,976.02	5,262.11	4,989.49	272.62	19.302			
8,500.00	6,938.77	6,973.77	6,973.77	57.20	241.73	131.10	449.90	-5,976.02	5,162.12	4,889.52	272.60	18.937			
8,600.00	6,937.69	6,972.69	6,972.69	59.53	241.69	130.55	449.90	-5,976.02	5,062.13	4,789.55	272.58	18.571			
8,700.00	6,936.61	6,971.61	6,971.61	61.89	241.66	129.98	449.90	-5,976.02	4,962.15	4,689.58	272.57	18.205			
8,800.00	6,935.54	6,970.54	6,970.54	64.30	241.62	129.41	449.90	-5,976.02	4,862.16	4,589.61	272.55	17.839			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - REICHERT #1-6 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2° Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,900.00	6,934.46	6,969.46	6,969.46	66.74	241.58	128.83	449.90	-5,976.02	4,762.18	4,489.64	272.54	17.474			
9,000.00	6,933.38	6,968.38	6,968.38	69.21	241.54	128.23	449.90	-5,976.02	4,662.19	4,389.67	272.52	17.107			
9,100.00	6,932.30	6,967.30	6,967.30	71.71	241.51	127.63	449.90	-5,976.02	4,562.21	4,289.69	272.51	16.741			
9,200.00	6,931.22	6,966.22	6,966.22	74.23	241.47	127.02	449.90	-5,976.02	4,462.22	4,189.72	272.50	16.375			
9,300.00	6,930.14	6,965.14	6,965.14	76.78	241.43	126.40	449.90	-5,976.02	4,362.24	4,089.74	272.50	16.008			
9,400.00	6,929.06	6,964.06	6,964.06	79.34	241.39	125.76	449.90	-5,976.02	4,262.26	3,989.77	272.49	15.642			
9,500.00	6,927.99	6,962.99	6,962.99	81.93	241.36	125.12	449.90	-5,976.02	4,162.27	3,889.79	272.48	15.275			
9,600.00	6,926.91	6,961.91	6,961.91	84.53	241.32	124.47	449.90	-5,976.02	4,062.29	3,789.81	272.48	14.909			
9,700.00	6,925.83	6,960.83	6,960.83	87.14	241.28	123.81	449.90	-5,976.02	3,962.31	3,689.83	272.48	14.542			
9,800.00	6,924.75	6,959.75	6,959.75	89.77	241.24	123.13	449.90	-5,976.02	3,862.33	3,589.85	272.48	14.175			
9,900.00	6,923.67	6,958.67	6,958.67	92.41	241.20	122.45	449.90	-5,976.02	3,762.35	3,489.87	272.48	13.808			
10,000.00	6,922.59	6,957.59	6,957.59	95.07	241.17	121.75	449.90	-5,976.02	3,662.37	3,389.89	272.48	13.441			
10,100.00	6,921.51	6,956.51	6,956.51	97.73	241.13	121.05	449.90	-5,976.02	3,562.39	3,289.90	272.49	13.073			
10,200.00	6,920.44	6,955.44	6,955.44	100.40	241.09	120.33	449.90	-5,976.02	3,462.41	3,189.92	272.50	12.706			
10,300.00	6,919.36	6,954.36	6,954.36	103.08	241.05	119.60	449.90	-5,976.02	3,362.44	3,089.93	272.51	12.339			
10,400.00	6,918.28	6,953.28	6,953.28	105.77	241.02	118.87	449.90	-5,976.02	3,262.46	2,989.94	272.52	11.972			
10,500.00	6,917.20	6,952.20	6,952.20	108.47	240.98	118.12	449.90	-5,976.02	3,162.49	2,889.95	272.53	11.604			
10,600.00	6,916.12	6,951.12	6,951.12	111.18	240.94	117.36	449.90	-5,976.02	3,062.51	2,789.97	272.55	11.237			
10,700.00	6,915.04	6,950.04	6,950.04	113.89	240.90	116.59	449.90	-5,976.02	2,962.54	2,689.97	272.57	10.869			
10,800.00	6,913.96	6,948.96	6,948.96	116.61	240.87	115.81	449.90	-5,976.02	2,862.57	2,589.98	272.59	10.501			
10,900.00	6,912.89	6,947.89	6,947.89	119.33	240.83	115.02	449.90	-5,976.02	2,762.60	2,489.99	272.61	10.134			
11,000.00	6,911.81	6,946.81	6,946.81	122.06	240.79	114.22	449.90	-5,976.02	2,662.64	2,389.99	272.64	9.766			
11,100.00	6,910.73	6,945.73	6,945.73	124.79	240.75	113.41	449.90	-5,976.02	2,562.67	2,290.00	272.67	9.398			
11,200.00	6,909.65	6,944.65	6,944.65	127.53	240.72	112.59	449.90	-5,976.02	2,462.71	2,190.00	272.71	9.030			
11,300.00	6,908.57	6,943.57	6,943.57	130.27	240.68	111.76	449.90	-5,976.02	2,362.75	2,090.00	272.75	8.663			
11,400.00	6,907.49	6,942.49	6,942.49	133.02	240.64	110.92	449.90	-5,976.02	2,262.80	1,990.00	272.80	8.295			
11,500.00	6,906.41	6,941.41	6,941.41	135.77	240.60	110.07	449.90	-5,976.02	2,162.84	1,889.99	272.85	7.927			
11,600.00	6,905.34	6,940.34	6,940.34	138.52	240.56	109.21	449.90	-5,976.02	2,062.89	1,789.98	272.91	7.559			
11,700.00	6,904.26	6,939.26	6,939.26	141.28	240.53	108.34	449.90	-5,976.02	1,962.95	1,689.97	272.98	7.191			
11,800.00	6,903.18	6,938.18	6,938.18	144.04	240.49	107.47	449.90	-5,976.02	1,863.01	1,589.95	273.06	6.823			
11,900.00	6,902.10	6,937.10	6,937.10	146.80	240.45	106.58	449.90	-5,976.02	1,763.08	1,489.93	273.15	6.455			
12,000.00	6,901.02	6,936.02	6,936.02	149.57	240.41	105.69	449.90	-5,976.02	1,663.15	1,389.90	273.25	6.086			
12,100.00	6,899.94	6,934.94	6,934.94	152.34	240.38	104.79	449.90	-5,976.02	1,563.24	1,289.86	273.38	5.718			
12,200.00	6,898.87	6,933.87	6,933.87	155.11	240.34	103.88	449.90	-5,976.02	1,463.33	1,189.81	273.53	5.350			
12,300.00	6,897.79	6,932.79	6,932.79	157.89	240.30	102.96	449.90	-5,976.02	1,363.44	1,089.74	273.70	4.981			
12,400.00	6,896.71	6,931.71	6,931.71	160.66	240.26	102.04	449.90	-5,976.02	1,263.57	989.65	273.92	4.613			
12,500.00	6,895.63	6,930.63	6,930.63	163.44	240.23	101.11	449.90	-5,976.02	1,163.71	889.52	274.19	4.244			
12,600.00	6,894.55	6,929.55	6,929.55	166.22	240.19	100.18	449.90	-5,976.02	1,063.88	789.35	274.53	3.875			
12,700.00	6,893.47	6,928.47	6,928.47	169.00	240.15	99.23	449.90	-5,976.02	964.09	689.12	274.97	3.506			
12,800.00	6,892.39	6,927.39	6,927.39	171.79	240.11	98.29	449.90	-5,976.02	864.34	588.78	275.55	3.137			
12,900.00	6,891.32	6,926.32	6,926.32	174.57	240.08	97.34	449.90	-5,976.02	764.65	488.30	276.35	2.767			
13,000.00	6,890.24	6,925.24	6,925.24	177.36	240.04	96.38	449.90	-5,976.02	665.06	387.55	277.50	2.397			
13,100.00	6,889.16	6,924.16	6,924.16	180.15	240.00	95.43	449.90	-5,976.02	565.61	286.38	279.23	2.026			
13,200.00	6,888.08	6,923.08	6,923.08	182.94	239.96	94.46	449.90	-5,976.02	466.39	184.40	281.99	1.654			
13,300.00	6,887.00	6,922.00	6,922.00	185.74	239.92	93.50	449.90	-5,976.02	367.59	80.81	286.78	1.282 Level 3			
13,400.00	6,885.92	6,920.92	6,920.92	188.53	239.89	92.54	449.90	-5,976.02	269.67	-26.45	296.12	0.911 Level 1			
13,500.00	6,884.84	6,919.84	6,919.84	191.32	239.85	91.57	449.90	-5,976.02	174.13	-143.71	317.85	0.548 Level 1			
13,600.00	6,883.77	6,918.77	6,918.77	194.12	239.81	90.60	449.90	-5,976.02	88.99	-293.10	382.09	0.233 Level 1			
13,662.03	6,883.10	6,918.10	6,918.10	195.86	239.79	90.00	449.90	-5,976.02	63.81	-371.82	435.64	0.146 Level 1, CC, ES, SF			
13,700.00	6,882.69	6,917.69	6,917.69	196.92	239.77	89.63	449.90	-5,976.02	74.26	-334.69	408.95	0.182 Level 1			
13,800.00	6,881.61	6,916.61	6,916.61	199.72	239.74	88.66	449.90	-5,976.02	152.01	-175.30	327.31	0.464 Level 1			
13,900.00	6,880.53	6,915.53	6,915.53	202.52	239.70	87.70	449.90	-5,976.02	246.37	-53.37	299.74	0.822 Level 1			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - REICHERT #1-6 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2° Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,879.45	6,914.45	6,914.45	205.32	239.66	86.73	449.90	-5,976.02	343.93	55.36	288.57	1.192 Level 2			
14,100.00	6,878.37	6,913.37	6,913.37	208.12	239.62	85.77	449.90	-5,976.02	442.57	159.50	283.07	1.563			
14,200.00	6,877.29	6,912.29	6,912.29	210.92	239.59	84.81	449.90	-5,976.02	541.71	261.69	280.02	1.935			
14,300.00	6,876.22	6,911.22	6,911.22	213.73	239.55	83.85	449.90	-5,976.02	641.12	362.95	278.17	2.305			
14,400.00	6,875.14	6,910.14	6,910.14	216.53	239.51	82.89	449.90	-5,976.02	740.68	463.71	276.98	2.674			
14,500.00	6,874.06	6,909.06	6,909.06	219.34	239.47	81.94	449.90	-5,976.02	840.35	564.17	276.18	3.043			
14,600.00	6,872.98	6,907.98	6,907.98	222.15	239.44	80.99	449.90	-5,976.02	940.09	664.47	275.62	3.411			
14,700.00	6,871.90	6,906.90	6,906.90	224.95	239.40	80.05	449.90	-5,976.02	1,039.87	764.66	275.21	3.778			
14,800.00	6,870.82	6,905.82	6,905.82	227.76	239.36	79.11	449.90	-5,976.02	1,139.69	864.77	274.92	4.146			
14,900.00	6,869.75	6,904.75	6,904.75	230.57	239.32	78.18	449.90	-5,976.02	1,239.54	964.84	274.70	4.512			
15,000.00	6,868.67	6,903.67	6,903.67	233.38	239.28	77.26	449.90	-5,976.02	1,339.42	1,064.88	274.54	4.879			
15,100.00	6,867.59	6,902.59	6,902.59	236.19	239.25	76.34	449.90	-5,976.02	1,439.30	1,164.88	274.42	5.245			
15,200.00	6,866.51	6,901.51	6,901.51	239.00	239.21	75.43	449.90	-5,976.02	1,539.21	1,264.88	274.33	5.611			
15,300.00	6,865.43	6,900.43	6,900.43	241.81	239.17	74.53	449.90	-5,976.02	1,639.12	1,364.85	274.27	5.976			
15,400.00	6,864.35	6,900.65	6,899.35	244.63	239.18	73.63	449.90	-5,976.02	1,739.04	1,464.78	274.26	6.341			
15,500.00	6,863.27	6,901.73	6,898.27	247.44	239.22	72.74	449.90	-5,976.02	1,838.97	1,564.67	274.31	6.704			
15,600.00	6,862.20	6,902.80	6,897.20	250.25	239.25	71.87	449.90	-5,976.02	1,938.91	1,664.55	274.37	7.067			
15,618.10	6,862.00	6,903.00	6,897.00	250.76	239.26	71.71	449.90	-5,976.02	1,957.00	1,682.62	274.38	7.133			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - ROTHE #1-14 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	33.00	33.00	3.28	3.33	-97.34	-1,106.34	-8,586.27	8,657.26						
100.00	100.00	133.00	133.00	3.28	4.38	-97.34	-1,106.34	-8,586.27	8,657.26	8,649.60	7.66	1,130.008			
200.00	200.00	233.00	233.00	3.34	7.18	-97.34	-1,106.34	-8,586.27	8,657.26	8,646.74	10.52	823.060			
300.00	299.98	332.98	332.98	3.44	10.41	-149.23	-1,106.34	-8,586.27	8,658.76	8,644.90	13.85	625.030			
400.00	399.84	432.84	432.84	3.61	13.76	-149.20	-1,106.34	-8,586.27	8,663.25	8,645.89	17.36	498.898			
500.00	499.45	532.45	532.45	3.81	17.16	-149.15	-1,106.34	-8,586.27	8,670.75	8,649.78	20.97	413.530			
600.00	598.70	631.70	631.70	4.06	20.57	-149.08	-1,106.34	-8,586.27	8,681.22	8,656.60	24.63	352.535			
700.00	697.47	730.47	730.47	4.35	23.98	-149.00	-1,106.34	-8,586.27	8,694.68	8,666.37	28.32	307.058			
800.00	795.62	828.62	828.62	4.66	27.38	-148.89	-1,106.34	-8,586.27	8,711.11	8,679.08	32.03	271.999			
900.00	893.06	926.06	926.06	5.01	30.76	-148.76	-1,106.34	-8,586.27	8,730.49	8,694.74	35.74	244.246			
961.44	952.51	985.51	985.51	5.25	32.82	-148.67	-1,106.34	-8,586.27	8,743.85	8,705.82	38.03	229.913			
1,000.00	989.71	1,022.71	1,022.71	5.40	34.12	-148.70	-1,106.34	-8,586.27	8,752.58	8,713.12	39.47	221.778			
1,100.00	1,086.20	1,119.20	1,119.20	5.81	37.47	-148.79	-1,106.34	-8,586.27	8,775.25	8,732.06	43.19	203.164			
1,200.00	1,182.69	1,215.69	1,215.69	6.24	40.83	-148.88	-1,106.34	-8,586.27	8,797.94	8,751.00	46.94	187.432			
1,300.00	1,279.18	1,312.18	1,312.18	6.69	44.18	-148.97	-1,106.34	-8,586.27	8,820.65	8,769.94	50.70	173.974			
1,400.00	1,375.67	1,408.67	1,408.67	7.15	47.54	-149.05	-1,106.34	-8,586.27	8,843.37	8,788.90	54.47	162.338			
1,500.00	1,472.15	1,505.15	1,505.15	7.62	50.91	-149.14	-1,106.34	-8,586.27	8,866.12	8,807.86	58.26	152.184			
1,600.00	1,568.64	1,601.64	1,601.64	8.10	54.27	-149.23	-1,106.34	-8,586.27	8,888.89	8,826.83	62.05	143.248			
1,700.00	1,665.13	1,701.87	1,698.13	8.59	57.76	-149.31	-1,106.34	-8,586.27	8,911.67	8,845.69	65.98	135.061			
1,800.00	1,761.62	1,805.38	1,794.62	9.08	61.37	-149.40	-1,106.34	-8,586.27	8,934.47	8,864.44	70.03	127.574			
1,900.00	1,858.11	1,908.89	1,891.11	9.58	64.98	-149.48	-1,106.34	-8,586.27	8,957.30	8,883.21	74.09	120.897			
2,000.00	1,954.60	1,987.60	1,987.60	10.08	67.72	-149.57	-1,106.34	-8,586.27	8,980.14	8,902.85	77.29	116.194			
2,100.00	2,051.09	2,084.09	2,084.09	10.59	71.09	-149.65	-1,106.34	-8,586.27	9,003.00	8,921.90	81.11	111.004			
2,200.00	2,147.57	2,180.57	2,180.57	11.09	74.45	-149.73	-1,106.34	-8,586.27	9,025.88	8,940.95	84.93	106.277			
2,300.00	2,244.06	2,277.06	2,277.06	11.61	77.82	-149.82	-1,106.34	-8,586.27	9,048.78	8,960.02	88.75	101.954			
2,400.00	2,340.55	2,373.55	2,373.55	12.12	81.18	-149.90	-1,106.34	-8,586.27	9,071.69	8,979.11	92.58	97.985			
2,500.00	2,437.04	2,470.04	2,470.04	12.64	84.55	-149.98	-1,106.34	-8,586.27	9,094.63	8,998.22	96.41	94.331			
2,600.00	2,533.53	2,566.53	2,566.53	13.15	87.91	-150.06	-1,106.34	-8,586.27	9,117.58	9,017.34	100.24	90.953			
2,700.00	2,630.02	2,663.02	2,663.02	13.67	91.28	-150.15	-1,106.34	-8,586.27	9,140.55	9,036.47	104.08	87.824			
2,800.00	2,726.50	2,759.50	2,759.50	14.19	94.65	-150.23	-1,106.34	-8,586.27	9,163.54	9,055.62	107.91	84.915			
2,900.00	2,822.99	2,855.99	2,855.99	14.72	98.01	-150.31	-1,106.34	-8,586.27	9,186.54	9,074.79	111.75	82.206			
3,000.00	2,919.48	2,952.48	2,952.48	15.24	101.38	-150.39	-1,106.34	-8,586.27	9,209.57	9,093.98	115.59	79.675			
3,100.00	3,015.97	3,048.97	3,048.97	15.76	104.75	-150.47	-1,106.34	-8,586.27	9,232.61	9,113.18	119.43	77.307			
3,200.00	3,112.46	3,145.46	3,145.46	16.29	108.11	-150.55	-1,106.34	-8,586.27	9,255.66	9,132.39	123.27	75.086			
3,300.00	3,208.95	3,241.95	3,241.95	16.81	111.48	-150.63	-1,106.34	-8,586.27	9,278.74	9,151.63	127.11	72.999			
3,400.00	3,305.44	3,338.44	3,338.44	17.34	114.85	-150.70	-1,106.34	-8,586.27	9,301.83	9,170.88	130.95	71.033			
3,500.00	3,401.92	3,434.92	3,434.92	17.87	118.21	-150.78	-1,106.34	-8,586.27	9,324.94	9,190.14	134.79	69.180			
3,600.00	3,498.41	3,531.41	3,531.41	18.40	121.58	-150.86	-1,106.34	-8,586.27	9,348.06	9,209.43	138.64	67.429			
3,700.00	3,594.90	3,627.90	3,627.90	18.93	124.95	-150.94	-1,106.34	-8,586.27	9,371.20	9,228.72	142.48	65.773			
3,800.00	3,691.39	3,724.39	3,724.39	19.46	128.32	-151.02	-1,106.34	-8,586.27	9,394.36	9,248.04	146.32	64.203			
3,900.00	3,787.88	3,820.88	3,820.88	19.99	131.68	-151.09	-1,106.34	-8,586.27	9,417.53	9,267.37	150.17	62.714			
4,000.00	3,884.37	3,917.37	3,917.37	20.52	135.05	-151.17	-1,106.34	-8,586.27	9,440.72	9,286.71	154.01	61.299			
4,100.00	3,980.85	4,013.85	4,013.85	21.05	138.42	-151.24	-1,106.34	-8,586.27	9,463.93	9,306.07	157.86	59.952			
4,200.00	4,077.34	4,110.34	4,110.34	21.58	141.78	-151.32	-1,106.34	-8,586.27	9,487.15	9,325.45	161.70	58.670			
4,300.00	4,173.83	4,206.83	4,206.83	22.11	145.15	-151.40	-1,106.34	-8,586.27	9,510.39	9,344.84	165.55	57.447			
4,390.25	4,260.91	4,306.09	4,293.91	22.59	148.62	-151.46	-1,106.34	-8,586.27	9,531.38	9,361.93	169.45	56.250			
4,400.00	4,270.32	4,303.32	4,303.32	22.64	148.52	-151.49	-1,106.34	-8,586.27	9,533.63	9,364.23	169.40	56.280			
4,500.00	4,367.33	4,400.33	4,400.33	23.16	151.91	-151.77	-1,106.34	-8,586.27	9,555.11	9,381.86	173.25	55.151			
4,600.00	4,465.13	4,501.87	4,498.13	23.65	155.45	-152.01	-1,106.34	-8,586.27	9,573.59	9,396.33	177.26	54.010			
4,700.00	4,563.60	4,603.40	4,596.60	24.12	158.99	-152.20	-1,106.34	-8,586.27	9,589.04	9,407.79	181.25	52.906			
4,800.00	4,662.61	4,704.39	4,695.61	24.56	162.52	-152.36	-1,106.34	-8,586.27	9,601.44	9,416.23	185.21	51.842			
4,900.00	4,762.05	4,804.95	4,795.05	24.98	166.03	-152.47	-1,106.34	-8,586.27	9,610.76	9,421.63	189.14	50.813			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - ROTHE #1-14 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2° Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,905.20	4,894.80	25.38	169.53	-152.55	-1,106.34	-8,586.27	9,617.01	9,423.96	193.05	49.817			
5,100.00	4,961.73	5,005.27	4,994.73	25.76	173.02	-152.59	-1,106.34	-8,586.27	9,620.16	9,423.22	196.94	48.849			
5,151.69	5,013.42	5,046.42	5,046.42	25.95	174.46	-100.70	-1,106.34	-8,586.27	9,620.57	9,422.00	198.57	48.449			
5,200.00	5,061.73	5,105.27	5,094.73	26.13	176.51	-100.70	-1,106.34	-8,586.27	9,620.57	9,419.77	200.81	47.910			
5,300.00	5,161.73	5,205.27	5,194.73	26.49	180.00	-100.70	-1,106.34	-8,586.27	9,620.57	9,415.90	204.67	47.004			
5,400.00	5,261.73	5,305.27	5,294.73	26.86	183.49	-100.70	-1,106.34	-8,586.27	9,620.57	9,412.03	208.54	46.132			
5,500.00	5,361.73	5,405.27	5,394.73	27.23	186.98	-100.70	-1,106.34	-8,586.27	9,620.57	9,408.16	212.42	45.291			
5,600.00	5,461.73	5,505.27	5,494.73	27.60	190.47	-100.70	-1,106.34	-8,586.27	9,620.57	9,404.28	216.29	44.480			
5,700.00	5,561.73	5,605.27	5,594.73	27.97	193.96	-100.70	-1,106.34	-8,586.27	9,620.57	9,400.41	220.17	43.697			
5,800.00	5,661.73	5,705.27	5,694.73	28.35	197.45	-100.70	-1,106.34	-8,586.27	9,620.57	9,396.53	224.04	42.941			
5,900.00	5,761.73	5,805.27	5,794.73	28.72	200.94	-100.70	-1,106.34	-8,586.27	9,620.57	9,392.65	227.92	42.210			
6,000.00	5,861.73	5,905.27	5,894.73	29.10	204.43	-100.70	-1,106.34	-8,586.27	9,620.57	9,388.77	231.80	41.503			
6,100.00	5,961.73	6,005.27	5,994.73	29.48	207.92	-100.70	-1,106.34	-8,586.27	9,620.57	9,384.89	235.68	40.820			
6,200.00	6,061.73	6,105.27	6,094.73	29.86	211.42	-100.70	-1,106.34	-8,586.27	9,620.57	9,381.00	239.57	40.158			
6,300.00	6,161.73	6,205.27	6,194.73	30.25	214.91	-100.70	-1,106.34	-8,586.27	9,620.57	9,377.12	243.45	39.517			
6,400.00	6,261.73	6,305.27	6,294.73	30.63	218.40	-100.70	-1,106.34	-8,586.27	9,620.57	9,373.23	247.34	38.896			
6,451.69	6,313.42	6,346.42	6,346.42	30.83	219.83	-100.70	-1,106.34	-8,586.27	9,620.57	9,371.59	248.98	38.640			
6,500.00	6,361.68	6,405.32	6,394.68	31.01	221.89	-8.27	-1,106.34	-8,586.27	9,618.76	9,367.54	251.22	38.289			
6,550.00	6,411.34	6,444.34	6,444.34	31.20	223.25	-8.35	-1,106.34	-8,586.27	9,613.07	9,363.33	252.75	38.034			
6,600.00	6,460.39	6,506.61	6,493.39	31.38	225.42	-8.48	-1,106.34	-8,586.27	9,603.55	9,348.47	255.08	37.649			
6,650.00	6,508.54	6,541.54	6,541.54	31.58	226.64	-8.68	-1,106.34	-8,586.27	9,590.25	9,333.81	256.44	37.397			
6,700.00	6,555.48	6,588.48	6,588.48	31.78	228.28	-8.94	-1,106.34	-8,586.27	9,573.25	9,315.05	258.21	37.076			
6,750.00	6,600.93	6,633.93	6,633.93	31.98	229.87	-9.29	-1,106.34	-8,586.27	9,552.66	9,292.76	259.90	36.755			
6,800.00	6,644.61	6,677.61	6,677.61	32.20	231.39	-9.72	-1,106.34	-8,586.27	9,528.61	9,267.09	261.52	36.435			
6,850.00	6,686.25	6,719.25	6,719.25	32.44	232.85	-10.26	-1,106.34	-8,586.27	9,501.24	9,238.19	263.06	36.119			
6,900.00	6,725.58	6,758.58	6,758.58	32.68	234.22	-10.93	-1,106.34	-8,586.27	9,470.73	9,206.23	264.49	35.807			
6,950.00	6,762.38	6,804.62	6,795.38	32.96	235.83	-11.77	-1,106.34	-8,586.27	9,437.26	9,171.11	266.15	35.458			
7,000.00	6,796.41	6,829.41	6,829.41	33.25	236.69	-12.82	-1,106.34	-8,586.27	9,401.03	9,133.98	267.05	35.203			
7,050.00	6,827.46	6,860.46	6,860.46	33.58	237.78	-14.17	-1,106.34	-8,586.27	9,362.29	9,094.12	268.16	34.913			
7,100.00	6,855.34	6,888.34	6,888.34	33.93	238.75	-15.91	-1,106.34	-8,586.27	9,321.25	9,052.10	269.15	34.632			
7,150.00	6,879.88	6,912.88	6,912.88	34.33	239.61	-18.23	-1,106.34	-8,586.27	9,278.18	9,008.17	270.02	34.362			
7,200.00	6,900.93	6,933.93	6,933.93	34.76	240.34	-21.41	-1,106.34	-8,586.27	9,233.35	8,962.60	270.75	34.103			
7,250.00	6,918.36	6,951.36	6,951.36	35.23	240.95	-25.98	-1,106.34	-8,586.27	9,187.03	8,915.67	271.36	33.856			
7,300.00	6,932.05	6,965.05	6,965.05	35.74	241.43	-32.89	-1,106.34	-8,586.27	9,139.50	8,867.67	271.83	33.622			
7,350.00	6,941.94	6,974.94	6,974.94	36.29	241.77	-43.97	-1,106.34	-8,586.27	9,091.06	8,818.89	272.18	33.401			
7,400.00	6,947.94	6,980.94	6,980.94	36.87	241.98	-62.27	-1,106.34	-8,586.27	9,042.02	8,769.63	272.39	33.196			
7,450.00	6,950.04	6,983.04	6,983.04	37.47	242.06	-89.02	-1,106.34	-8,586.27	8,992.66	8,720.20	272.46	33.005			
7,458.56	6,950.00	6,983.00	6,983.00	37.58	242.05	-93.97	-1,106.34	-8,586.27	8,984.20	8,711.74	272.47	32.974			
7,500.00	6,949.56	6,982.56	6,982.56	38.11	242.04	-93.95	-1,106.34	-8,586.27	8,943.26	8,670.80	272.46	32.824			
7,600.00	6,948.48	6,981.48	6,981.48	39.51	242.00	-93.91	-1,106.34	-8,586.27	8,844.47	8,572.02	272.45	32.463			
7,700.00	6,947.40	6,980.40	6,980.40	41.06	241.96	-93.86	-1,106.34	-8,586.27	8,745.72	8,473.27	272.45	32.101			
7,800.00	6,946.32	6,979.32	6,979.32	42.74	241.93	-93.82	-1,106.34	-8,586.27	8,646.99	8,374.53	272.46	31.737			
7,900.00	6,945.24	6,978.24	6,978.24	44.55	241.89	-93.78	-1,106.34	-8,586.27	8,548.29	8,275.81	272.48	31.373			
8,000.00	6,944.16	6,977.16	6,977.16	46.46	241.85	-93.73	-1,106.34	-8,586.27	8,449.62	8,177.11	272.51	31.007			
8,100.00	6,943.08	6,976.08	6,976.08	48.47	241.81	-93.69	-1,106.34	-8,586.27	8,350.98	8,078.43	272.55	30.640			
8,200.00	6,942.01	6,975.01	6,975.01	50.55	241.77	-93.64	-1,106.34	-8,586.27	8,252.37	7,979.77	272.60	30.273			
8,300.00	6,940.93	6,973.93	6,973.93	52.71	241.74	-93.60	-1,106.34	-8,586.27	8,153.80	7,881.14	272.67	29.904			
8,400.00	6,939.85	6,972.85	6,972.85	54.93	241.70	-93.55	-1,106.34	-8,586.27	8,055.27	7,782.52	272.75	29.534			
8,500.00	6,938.77	6,971.77	6,971.77	57.20	241.66	-93.51	-1,106.34	-8,586.27	7,956.77	7,683.93	272.84	29.163			
8,600.00	6,937.69	6,970.69	6,970.69	59.53	241.62	-93.46	-1,106.34	-8,586.27	7,858.31	7,585.35	272.95	28.790			
8,700.00	6,936.61	6,969.61	6,969.61	61.89	241.59	-93.42	-1,106.34	-8,586.27	7,759.88	7,486.81	273.08	28.417			
8,800.00	6,935.54	6,968.54	6,968.54	64.30	241.55	-93.37	-1,106.34	-8,586.27	7,661.50	7,388.29	273.22	28.042			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - ROTHE #1-14 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-2° Cone@2.448 Sigma														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,900.00	6,934.46	6,967.46	6,967.46	66.74	241.51	-93.33	-1,106.34	-8,586.27	7,563.16	7,289.79	273.37	27.666			
9,000.00	6,933.38	6,966.38	6,966.38	69.21	241.47	-93.28	-1,106.34	-8,586.27	7,464.87	7,191.32	273.55	27.289			
9,100.00	6,932.30	6,965.30	6,965.30	71.71	241.44	-93.24	-1,106.34	-8,586.27	7,366.62	7,092.87	273.74	26.911			
9,200.00	6,931.22	6,964.22	6,964.22	74.23	241.40	-93.19	-1,106.34	-8,586.27	7,268.41	6,994.45	273.96	26.531			
9,300.00	6,930.14	6,963.14	6,963.14	76.78	241.36	-93.15	-1,106.34	-8,586.27	7,170.26	6,896.07	274.19	26.150			
9,400.00	6,929.06	6,962.06	6,962.06	79.34	241.32	-93.11	-1,106.34	-8,586.27	7,072.16	6,797.71	274.45	25.768			
9,500.00	6,927.99	6,960.99	6,960.99	81.93	241.29	-93.06	-1,106.34	-8,586.27	6,974.11	6,699.38	274.73	25.385			
9,600.00	6,926.91	6,959.91	6,959.91	84.53	241.25	-93.02	-1,106.34	-8,586.27	6,876.12	6,601.08	275.04	25.001			
9,700.00	6,925.83	6,958.83	6,958.83	87.14	241.21	-92.97	-1,106.34	-8,586.27	6,778.19	6,502.82	275.37	24.615			
9,800.00	6,924.75	6,957.75	6,957.75	89.77	241.17	-92.93	-1,106.34	-8,586.27	6,680.31	6,404.59	275.72	24.228			
9,900.00	6,923.67	6,956.67	6,956.67	92.41	241.13	-92.88	-1,106.34	-8,586.27	6,582.51	6,306.40	276.11	23.841			
10,000.00	6,922.59	6,955.59	6,955.59	95.07	241.10	-92.84	-1,106.34	-8,586.27	6,484.76	6,208.25	276.52	23.451			
10,100.00	6,921.51	6,954.51	6,954.51	97.73	241.06	-92.79	-1,106.34	-8,586.27	6,387.09	6,110.13	276.96	23.061			
10,200.00	6,920.44	6,953.44	6,953.44	100.40	241.02	-92.75	-1,106.34	-8,586.27	6,289.49	6,012.06	277.44	22.670			
10,300.00	6,919.36	6,952.36	6,952.36	103.08	240.98	-92.70	-1,106.34	-8,586.27	6,191.97	5,914.03	277.94	22.278			
10,400.00	6,918.28	6,951.28	6,951.28	105.77	240.95	-92.66	-1,106.34	-8,586.27	6,094.53	5,816.04	278.49	21.885			
10,500.00	6,917.20	6,950.20	6,950.20	108.47	240.91	-92.61	-1,106.34	-8,586.27	5,997.17	5,718.11	279.06	21.490			
10,600.00	6,916.12	6,949.12	6,949.12	111.18	240.87	-92.57	-1,106.34	-8,586.27	5,899.90	5,620.22	279.68	21.095			
10,700.00	6,915.04	6,948.04	6,948.04	113.89	240.83	-92.52	-1,106.34	-8,586.27	5,802.72	5,522.38	280.34	20.699			
10,800.00	6,913.96	6,946.96	6,946.96	116.61	240.80	-92.48	-1,106.34	-8,586.27	5,705.64	5,424.61	281.04	20.302			
10,900.00	6,912.89	6,945.89	6,945.89	119.33	240.76	-92.43	-1,106.34	-8,586.27	5,608.66	5,326.89	281.78	19.905			
11,000.00	6,911.81	6,944.81	6,944.81	122.06	240.72	-92.39	-1,106.34	-8,586.27	5,511.79	5,229.23	282.57	19.506			
11,100.00	6,910.73	6,943.73	6,943.73	124.79	240.68	-92.35	-1,106.34	-8,586.27	5,415.04	5,131.64	283.40	19.107			
11,200.00	6,909.65	6,942.65	6,942.65	127.53	240.65	-92.30	-1,106.34	-8,586.27	5,318.40	5,034.11	284.29	18.708			
11,300.00	6,908.57	6,941.57	6,941.57	130.27	240.61	-92.26	-1,106.34	-8,586.27	5,221.89	4,936.67	285.23	18.308			
11,400.00	6,907.49	6,940.49	6,940.49	133.02	240.57	-92.21	-1,106.34	-8,586.27	5,125.51	4,839.29	286.22	17.908			
11,500.00	6,906.41	6,939.41	6,939.41	135.77	240.53	-92.17	-1,106.34	-8,586.27	5,029.28	4,742.01	287.27	17.507			
11,600.00	6,905.34	6,938.34	6,938.34	138.52	240.49	-92.12	-1,106.34	-8,586.27	4,933.19	4,644.81	288.38	17.106			
11,700.00	6,904.26	6,937.26	6,937.26	141.28	240.46	-92.08	-1,106.34	-8,586.27	4,837.27	4,547.70	289.56	16.706			
11,800.00	6,903.18	6,936.18	6,936.18	144.04	240.42	-92.03	-1,106.34	-8,586.27	4,741.51	4,450.70	290.81	16.305			
11,900.00	6,902.10	6,935.10	6,935.10	146.80	240.38	-91.99	-1,106.34	-8,586.27	4,645.93	4,353.81	292.12	15.904			
12,000.00	6,901.02	6,934.02	6,934.02	149.57	240.34	-91.94	-1,106.34	-8,586.27	4,550.53	4,257.02	293.51	15.504			
12,100.00	6,899.94	6,932.94	6,932.94	152.34	240.31	-91.90	-1,106.34	-8,586.27	4,455.34	4,160.37	294.98	15.104			
12,200.00	6,898.87	6,931.87	6,931.87	155.11	240.27	-91.85	-1,106.34	-8,586.27	4,360.37	4,063.84	296.53	14.705			
12,300.00	6,897.79	6,930.79	6,930.79	157.89	240.23	-91.81	-1,106.34	-8,586.27	4,265.63	3,967.45	298.17	14.306			
12,400.00	6,896.71	6,929.71	6,929.71	160.66	240.19	-91.76	-1,106.34	-8,586.27	4,171.13	3,871.22	299.90	13.908			
12,500.00	6,895.63	6,928.63	6,928.63	163.44	240.16	-91.72	-1,106.34	-8,586.27	4,076.89	3,775.15	301.74	13.511			
12,600.00	6,894.55	6,927.55	6,927.55	166.22	240.12	-91.67	-1,106.34	-8,586.27	3,982.93	3,679.26	303.67	13.116			
12,700.00	6,893.47	6,926.47	6,926.47	169.00	240.08	-91.63	-1,106.34	-8,586.27	3,889.28	3,583.56	305.72	12.722			
12,800.00	6,892.39	6,925.39	6,925.39	171.79	240.04	-91.58	-1,106.34	-8,586.27	3,795.94	3,488.06	307.88	12.329			
12,900.00	6,891.32	6,924.32	6,924.32	174.57	240.01	-91.54	-1,106.34	-8,586.27	3,702.96	3,392.79	310.17	11.938			
13,000.00	6,890.24	6,923.24	6,923.24	177.36	239.97	-91.49	-1,106.34	-8,586.27	3,610.35	3,297.75	312.59	11.550			
13,100.00	6,889.16	6,922.16	6,922.16	180.15	239.93	-91.45	-1,106.34	-8,586.27	3,518.14	3,202.99	315.16	11.163			
13,200.00	6,888.08	6,921.08	6,921.08	182.94	239.89	-91.41	-1,106.34	-8,586.27	3,426.37	3,108.50	317.87	10.779			
13,300.00	6,887.00	6,920.00	6,920.00	185.74	239.85	-91.36	-1,106.34	-8,586.27	3,335.08	3,014.33	320.74	10.398			
13,400.00	6,885.92	6,918.92	6,918.92	188.53	239.82	-91.32	-1,106.34	-8,586.27	3,244.29	2,920.51	323.79	10.020			
13,500.00	6,884.84	6,917.84	6,917.84	191.32	239.78	-91.27	-1,106.34	-8,586.27	3,154.07	2,827.05	327.02	9.645			
13,600.00	6,883.77	6,916.77	6,916.77	194.12	239.74	-91.23	-1,106.34	-8,586.27	3,064.45	2,734.01	330.44	9.274			
13,700.00	6,882.69	6,915.69	6,915.69	196.92	239.70	-91.18	-1,106.34	-8,586.27	2,975.49	2,641.42	334.07	8.907			
13,800.00	6,881.61	6,914.61	6,914.61	199.72	239.67	-91.14	-1,106.34	-8,586.27	2,887.26	2,549.33	337.92	8.544			
13,900.00	6,880.53	6,913.53	6,913.53	202.52	239.63	-91.09	-1,106.34	-8,586.27	2,799.81	2,457.80	342.02	8.186			
14,000.00	6,879.45	6,912.45	6,912.45	205.32	239.59	-91.05	-1,106.34	-8,586.27	2,713.23	2,366.87	346.36	7.834			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - ROTHE #1-14 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2° Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,878.37	6,911.37	6,911.37	208.12	239.55	-91.00	-1,106.34	-8,586.27	2,627.61	2,276.63	350.97	7.487		
14,200.00	6,877.29	6,910.29	6,910.29	210.92	239.52	-90.96	-1,106.34	-8,586.27	2,543.03	2,187.16	355.87	7.146		
14,300.00	6,876.22	6,909.22	6,909.22	213.73	239.48	-90.91	-1,106.34	-8,586.27	2,459.61	2,098.53	361.08	6.812		
14,400.00	6,875.14	6,908.14	6,908.14	216.53	239.44	-90.87	-1,106.34	-8,586.27	2,377.47	2,010.87	366.60	6.485		
14,500.00	6,874.06	6,907.06	6,907.06	219.34	239.40	-90.82	-1,106.34	-8,586.27	2,296.75	1,924.28	372.47	6.166		
14,600.00	6,872.98	6,905.98	6,905.98	222.15	239.37	-90.78	-1,106.34	-8,586.27	2,217.60	1,838.91	378.68	5.856		
14,700.00	6,871.90	6,904.90	6,904.90	224.95	239.33	-90.73	-1,106.34	-8,586.27	2,140.19	1,754.92	385.27	5.555		
14,800.00	6,870.82	6,903.82	6,903.82	227.76	239.29	-90.69	-1,106.34	-8,586.27	2,064.72	1,672.50	392.23	5.264		
14,900.00	6,869.75	6,902.75	6,902.75	230.57	239.25	-90.64	-1,106.34	-8,586.27	1,991.42	1,591.85	399.57	4.984		
15,000.00	6,868.67	6,901.67	6,901.67	233.38	239.21	-90.60	-1,106.34	-8,586.27	1,920.53	1,513.25	407.28	4.715		
15,100.00	6,867.59	6,900.59	6,900.59	236.19	239.18	-90.55	-1,106.34	-8,586.27	1,852.32	1,436.96	415.36	4.460		
15,200.00	6,866.51	6,900.49	6,899.51	239.00	239.17	-90.51	-1,106.34	-8,586.27	1,787.11	1,363.31	423.80	4.217		
15,300.00	6,865.43	6,901.57	6,898.43	241.81	239.21	-90.46	-1,106.34	-8,586.27	1,725.23	1,292.65	432.58	3.988		
15,400.00	6,864.35	6,902.65	6,897.35	244.63	239.25	-90.42	-1,106.34	-8,586.27	1,667.05	1,225.48	441.58	3.775		
15,500.00	6,863.27	6,903.73	6,896.27	247.44	239.29	-90.37	-1,106.34	-8,586.27	1,612.99	1,162.28	450.71	3.579		
15,600.00	6,862.20	6,904.80	6,895.20	250.25	239.32	-90.33	-1,106.34	-8,586.27	1,563.45	1,103.59	459.86	3.400		
15,618.10	6,862.00	6,905.00	6,895.00	250.76	239.33	-90.32	-1,106.34	-8,586.27	1,555.01	1,093.50	461.50	3.369	CC, ES, SF	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-21D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	-103.85	-1,344.03	-5,451.97	5,615.20						
100.00	100.00	63.93	63.93	3.28	3.28	-103.85	-1,343.89	-5,452.24	5,615.57	5,609.00	6.57	855.001			
200.00	200.00	155.57	155.57	3.34	3.31	-103.84	-1,343.34	-5,453.28	5,616.51	5,609.86	6.65	844.689			
300.00	299.98	264.50	264.48	3.44	3.41	-155.71	-1,342.83	-5,454.21	5,618.81	5,611.96	6.85	819.977			
400.00	399.84	382.54	382.52	3.61	3.58	-155.69	-1,342.31	-5,455.07	5,624.19	5,617.01	7.18	783.114			
500.00	499.45	491.91	491.88	3.81	3.79	-155.65	-1,341.75	-5,455.51	5,632.41	5,624.81	7.60	741.236			
600.00	598.70	609.73	609.71	4.06	4.07	-155.61	-1,340.95	-5,455.77	5,643.57	5,635.45	8.12	695.018			
700.00	697.47	713.77	713.74	4.35	4.34	-155.55	-1,339.90	-5,455.83	5,657.66	5,648.98	8.68	651.913			
800.00	795.62	800.89	800.86	4.66	4.60	-155.47	-1,339.02	-5,455.94	5,674.96	5,665.72	9.24	614.001			
900.00	893.06	892.65	892.61	5.01	4.88	-155.37	-1,338.04	-5,456.21	5,695.53	5,685.67	9.86	577.448			
961.44	952.51	958.76	958.70	5.25	5.10	-155.31	-1,336.85	-5,456.54	5,709.72	5,699.42	10.30	554.359			
1,000.00	989.71	1,001.20	1,001.12	5.40	5.24	-155.34	-1,335.53	-5,456.83	5,718.95	5,708.36	10.58	540.425			
1,100.00	1,086.20	1,054.72	1,054.58	5.81	5.43	-155.38	-1,333.09	-5,457.59	5,743.21	5,732.07	11.14	515.463			
1,200.00	1,182.69	1,113.05	1,112.76	6.24	5.64	-155.40	-1,329.24	-5,459.18	5,768.20	5,756.45	11.74	491.237			
1,300.00	1,279.18	1,193.45	1,192.76	6.69	5.98	-155.41	-1,321.83	-5,462.25	5,793.61	5,781.14	12.47	464.554			
1,400.00	1,375.67	1,295.01	1,293.34	7.15	6.46	-155.38	-1,308.72	-5,467.20	5,819.13	5,805.77	13.36	435.402			
1,500.00	1,472.15	1,450.00	1,445.65	7.62	7.34	-155.26	-1,281.39	-5,475.67	5,844.07	5,829.41	14.67	398.447			
1,600.00	1,568.64	1,664.12	1,653.25	8.10	8.78	-154.97	-1,230.56	-5,487.56	5,867.79	5,851.23	16.56	354.369			
1,700.00	1,665.13	1,838.28	1,818.96	8.59	10.19	-154.63	-1,177.79	-5,496.32	5,889.17	5,870.76	18.41	319.908			
1,800.00	1,761.62	1,900.00	1,876.90	9.08	10.73	-154.48	-1,156.88	-5,500.04	5,910.97	5,891.57	19.39	304.812			
1,900.00	1,858.11	1,947.39	1,921.20	9.58	11.18	-154.37	-1,140.36	-5,503.34	5,933.48	5,913.20	20.27	292.693			
2,000.00	1,954.60	2,009.96	1,979.43	10.08	11.77	-154.21	-1,117.97	-5,508.19	5,956.67	5,935.37	21.31	279.583			
2,100.00	2,051.09	2,114.73	2,076.27	10.59	12.80	-153.92	-1,078.95	-5,516.81	5,980.10	5,957.31	22.79	262.354			
2,200.00	2,147.57	2,180.18	2,136.65	11.09	13.45	-153.75	-1,054.32	-5,522.39	6,003.83	5,979.94	23.89	251.290			
2,300.00	2,244.06	2,269.82	2,219.49	11.61	14.32	-153.51	-1,020.96	-5,530.18	6,027.92	6,002.71	25.22	239.052			
2,400.00	2,340.55	2,349.83	2,293.60	12.12	15.08	-153.30	-991.61	-5,537.07	6,052.18	6,025.75	26.43	228.999			
2,500.00	2,437.04	2,429.36	2,367.26	12.64	15.83	-153.09	-962.48	-5,544.18	6,076.83	6,049.20	27.63	219.948			
2,600.00	2,533.53	2,561.48	2,489.72	13.15	17.05	-152.76	-914.28	-5,555.81	6,101.56	6,072.23	29.33	208.031			
2,700.00	2,630.02	2,664.64	2,585.01	13.67	18.02	-152.49	-875.69	-5,564.34	6,125.67	6,094.91	30.76	199.123			
2,800.00	2,726.50	2,729.87	2,645.12	14.19	18.63	-152.32	-850.99	-5,569.96	6,150.16	6,118.32	31.83	193.207			
2,900.00	2,822.99	2,784.70	2,695.71	14.72	19.15	-152.18	-830.45	-5,574.98	6,175.30	6,142.50	32.80	188.285			
3,000.00	2,919.48	2,938.13	2,837.47	15.24	20.58	-151.79	-773.40	-5,588.84	6,200.55	6,165.83	34.72	178.603			
3,100.00	3,015.97	3,055.82	2,946.43	15.76	21.62	-151.50	-729.97	-5,598.33	6,224.98	6,188.73	36.25	171.746			
3,200.00	3,112.46	3,125.70	3,011.51	16.29	22.22	-151.34	-705.11	-5,603.80	6,249.55	6,212.25	37.30	167.541			
3,300.00	3,208.95	3,175.81	3,058.27	16.81	22.64	-151.22	-687.58	-5,608.00	6,274.80	6,236.63	38.17	164.404			
3,400.00	3,305.44	3,276.79	3,152.39	17.34	23.51	-150.99	-652.12	-5,616.97	6,300.59	6,261.09	39.50	159.502			
3,500.00	3,401.92	3,465.28	3,327.33	17.87	25.13	-150.55	-583.50	-5,631.63	6,324.93	6,283.28	41.65	151.873			
3,600.00	3,498.41	3,500.00	3,359.57	18.40	25.42	-150.47	-570.89	-5,634.20	6,349.56	6,307.18	42.38	149.824			
3,700.00	3,594.90	3,550.12	3,406.11	18.93	25.86	-150.36	-552.74	-5,638.30	6,374.97	6,331.71	43.26	147.360			
3,800.00	3,691.39	3,600.00	3,452.38	19.46	26.30	-150.24	-534.73	-5,643.13	6,401.52	6,357.38	44.14	145.038			
3,900.00	3,787.88	3,802.44	3,639.48	19.99	28.14	-149.76	-459.72	-5,661.63	6,427.94	6,381.43	46.51	138.200			
4,000.00	3,884.37	3,911.04	3,739.35	20.52	29.14	-149.50	-417.99	-5,670.47	6,453.12	6,405.12	47.99	134.457			
4,100.00	3,980.85	4,016.22	3,835.93	21.05	30.11	-149.24	-377.15	-5,678.76	6,478.09	6,428.64	49.45	131.008			
4,200.00	4,077.34	4,073.97	3,888.93	21.58	30.65	-149.10	-354.69	-5,683.48	6,503.43	6,452.99	50.43	128.948			
4,300.00	4,173.83	4,149.16	3,957.99	22.11	31.34	-148.91	-325.68	-5,689.95	6,529.31	6,477.72	51.58	126.576			
4,390.25	4,260.91	4,227.27	4,030.14	22.59	32.05	-148.74	-296.50	-5,696.63	6,552.84	6,500.13	52.71	124.318			
4,400.00	4,270.32	4,235.12	4,037.39	22.64	32.12	-148.74	-293.59	-5,697.30	6,555.38	6,502.55	52.82	124.097			
4,500.00	4,367.33	4,332.15	4,127.10	23.16	32.98	-148.78	-257.57	-5,705.72	6,579.97	6,525.82	54.15	121.519			
4,600.00	4,465.13	4,448.29	4,234.50	23.65	34.00	-148.72	-214.43	-5,715.31	6,601.33	6,545.70	55.64	118.654			
4,700.00	4,563.60	4,524.05	4,304.55	24.12	34.67	-148.72	-186.28	-5,721.61	6,619.99	6,563.26	56.72	116.707			
4,800.00	4,662.61	4,589.19	4,364.71	24.56	35.25	-148.71	-161.93	-5,727.29	6,636.19	6,578.49	57.70	115.012			
4,900.00	4,762.05	4,692.02	4,459.77	24.98	36.17	-148.56	-123.84	-5,736.43	6,649.78	6,590.76	59.02	112.665			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-21D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,764.88	4,527.41	25.38	36.79	-148.47	-97.50	-5,742.85	6,660.60	6,600.58	60.02	110.973			
5,100.00	4,961.73	4,853.30	4,609.50	25.76	37.56	-148.29	-65.67	-5,750.89	6,668.89	6,607.73	61.16	109.047			
5,151.69	5,013.42	4,915.53	4,667.04	25.95	38.11	-96.23	-42.64	-5,756.54	6,672.05	6,610.14	61.90	107.784			
5,200.00	5,061.73	5,012.40	4,756.40	26.13	38.98	-95.91	-6.18	-5,764.86	6,674.43	6,611.45	62.99	105.968			
5,300.00	5,161.73	5,062.36	4,802.49	26.49	39.43	-95.74	12.61	-5,769.17	6,679.53	6,615.79	63.75	104.779			
5,400.00	5,261.73	5,136.62	4,871.08	26.86	40.09	-95.50	40.28	-5,775.88	6,685.27	6,620.53	64.75	103.254			
5,500.00	5,361.73	5,244.75	4,971.20	27.23	41.04	-95.15	79.95	-5,785.55	6,691.20	6,625.14	66.06	101.288			
5,600.00	5,461.73	5,336.46	5,056.19	27.60	41.84	-94.86	113.48	-5,793.54	6,697.12	6,629.91	67.21	99.642			
5,700.00	5,561.73	5,412.85	5,126.80	27.97	42.52	-94.61	141.80	-5,800.43	6,703.50	6,635.28	68.22	98.257			
5,800.00	5,661.73	5,535.97	5,240.32	28.35	43.62	-94.21	188.22	-5,811.16	6,709.74	6,640.04	69.70	96.261			
5,900.00	5,761.73	5,900.00	5,357.45	28.72	46.74	-93.81	234.53	-5,821.83	6,716.07	6,642.88	73.19	91.762			
6,000.00	5,861.73	5,781.83	5,468.31	29.10	45.71	-93.43	278.07	-5,830.99	6,721.79	6,649.25	72.55	92.654			
6,100.00	5,961.73	6,100.00	5,725.47	29.48	47.78	-92.71	362.70	-5,848.22	6,727.01	6,651.89	75.12	89.552			
6,200.00	6,061.73	6,160.16	5,828.73	29.86	48.07	-92.47	389.99	-5,852.87	6,730.30	6,654.52	75.78	88.808			
6,300.00	6,161.73	6,227.17	5,893.88	30.25	48.38	-92.34	405.35	-5,856.08	6,734.17	6,657.73	76.44	88.093			
6,400.00	6,261.73	6,359.77	6,023.97	30.63	48.91	-92.13	430.23	-5,862.04	6,738.01	6,660.63	77.38	87.077			
6,451.69	6,313.42	6,418.47	6,081.81	30.83	49.12	-92.04	440.00	-5,864.42	6,739.81	6,662.02	77.80	86.635			
6,500.00	6,361.68	6,457.34	6,120.20	31.01	49.25	0.47	445.90	-5,866.00	6,739.70	6,661.61	78.10	86.300			
6,550.00	6,411.34	6,497.63	6,160.07	31.20	49.39	0.52	451.43	-5,867.67	6,735.81	6,657.42	78.39	85.924			
6,600.00	6,460.39	6,535.06	6,197.18	31.38	49.50	0.57	456.06	-5,869.27	6,728.10	6,649.45	78.65	85.540			
6,650.00	6,508.54	6,854.41	6,153.34	31.58	50.36	0.82	481.51	-5,876.10	6,715.38	6,635.56	79.83	84.125			
6,700.00	6,555.48	6,897.71	6,558.60	31.78	50.47	0.86	483.33	-5,876.14	6,698.20	6,618.14	80.06	83.662			
6,750.00	6,600.93	6,934.23	6,595.10	31.98	50.56	0.90	484.52	-5,876.21	6,677.43	6,597.17	80.26	83.194			
6,800.00	6,644.61	6,969.08	6,629.94	32.20	50.64	0.96	485.41	-5,876.31	6,653.22	6,572.77	80.45	82.704			
6,850.00	6,686.25	7,003.08	6,663.93	32.44	50.72	1.02	486.03	-5,876.44	6,625.70	6,545.09	80.61	82.192			
6,900.00	6,725.58	7,043.73	6,704.58	32.68	50.82	1.09	486.64	-5,876.62	6,595.02	6,514.23	80.79	81.636			
6,950.00	6,762.38	7,081.77	6,742.61	32.96	50.91	1.19	487.16	-5,876.77	6,561.32	6,480.39	80.94	81.066			
7,000.00	6,796.41	7,115.67	6,776.52	33.25	50.99	1.30	487.59	-5,876.91	6,524.83	6,443.77	81.07	80.486			
7,050.00	6,827.46	7,145.39	6,806.23	33.58	51.07	1.45	487.98	-5,877.03	6,485.78	6,404.61	81.18	79.898			
7,100.00	6,855.34	7,172.11	6,832.95	33.93	51.13	1.65	488.33	-5,877.15	6,444.41	6,363.14	81.27	79.299			
7,150.00	6,879.88	7,195.67	6,856.50	34.33	51.19	1.91	488.66	-5,877.25	6,400.97	6,319.63	81.34	78.693			
7,200.00	6,900.93	7,217.14	6,877.97	34.76	51.24	2.28	488.96	-5,877.35	6,355.73	6,274.32	81.40	78.077			
7,250.00	6,918.36	7,235.21	6,896.04	35.23	51.29	2.84	489.22	-5,877.44	6,308.95	6,227.50	81.45	77.456			
7,300.00	6,932.05	7,249.46	6,910.29	35.74	51.32	3.77	489.43	-5,877.50	6,260.94	6,179.46	81.49	76.834			
7,350.00	6,941.94	7,259.79	6,920.62	36.29	51.35	5.60	489.59	-5,877.55	6,211.99	6,130.48	81.51	76.211			
7,400.00	6,947.94	7,266.15	6,926.97	36.87	51.36	10.72	489.69	-5,877.58	6,162.40	6,080.87	81.52	75.590			
7,450.00	6,950.04	7,268.49	6,929.31	37.47	51.37	67.60	489.72	-5,877.59	6,112.47	6,030.94	81.53	74.972			
7,458.56	6,950.00	7,268.49	6,929.31	37.58	51.37	112.49	489.72	-5,877.59	6,103.91	6,022.38	81.53	74.866			
7,500.00	6,949.56	7,268.19	6,929.01	38.11	51.37	112.34	489.72	-5,877.59	6,062.48	5,980.94	81.53	74.356			
7,600.00	6,948.48	7,267.47	6,928.30	39.51	51.37	111.99	489.71	-5,877.58	5,962.49	5,880.95	81.54	73.126			
7,700.00	6,947.40	7,266.76	6,927.58	41.06	51.36	111.64	489.69	-5,877.58	5,862.51	5,780.97	81.54	71.895			
7,800.00	6,946.32	7,266.04	6,926.87	42.74	51.36	111.28	489.68	-5,877.58	5,762.52	5,680.98	81.55	70.663			
7,900.00	6,945.24	7,265.33	6,926.15	44.55	51.36	110.92	489.67	-5,877.57	5,662.54	5,580.98	81.56	69.430			
8,000.00	6,944.16	7,264.61	6,925.44	46.46	51.36	110.57	489.66	-5,877.57	5,562.56	5,480.99	81.57	68.196			
8,100.00	6,943.08	7,263.90	6,924.73	48.47	51.36	110.21	489.65	-5,877.57	5,462.58	5,381.00	81.58	66.961			
8,200.00	6,942.01	7,263.19	6,924.01	50.55	51.36	109.85	489.64	-5,877.56	5,362.60	5,281.01	81.59	65.726			
8,300.00	6,940.93	7,262.48	6,923.30	52.71	51.35	109.48	489.63	-5,877.56	5,262.62	5,181.01	81.60	64.490			
8,400.00	6,939.85	7,261.77	6,922.59	54.93	51.35	109.12	489.62	-5,877.56	5,162.64	5,081.02	81.62	63.253			
8,500.00	6,938.77	7,261.06	6,921.88	57.20	51.35	108.75	489.61	-5,877.55	5,062.66	4,981.02	81.64	62.015			
8,600.00	6,937.69	7,260.35	6,921.17	59.53	51.35	108.39	489.60	-5,877.55	4,962.68	4,881.03	81.65	60.777			
8,700.00	6,936.61	7,259.64	6,920.46	61.89	51.35	108.02	489.59	-5,877.55	4,862.70	4,781.03	81.67	59.539			
8,800.00	6,935.54	7,258.93	6,919.75	64.30	51.34	107.65	489.58	-5,877.54	4,762.73	4,681.03	81.69	58.300			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SOUTH #6-21D - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-GYRO-NS														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	6,934.46	7,258.22	6,919.05	66.74	51.34	107.28	489.56	-5,877.54	4,662.75	4,581.03	81.72	57.060		
9,000.00	6,933.38	7,257.51	6,918.34	69.21	51.34	106.91	489.55	-5,877.54	4,562.78	4,481.04	81.74	55.820		
9,100.00	6,932.30	7,256.81	6,917.63	71.71	51.34	106.54	489.54	-5,877.53	4,462.80	4,381.04	81.77	54.580		
9,200.00	6,931.22	7,256.10	6,916.93	74.23	51.34	106.16	489.53	-5,877.53	4,362.83	4,281.04	81.79	53.339		
9,300.00	6,930.14	7,255.39	6,916.22	76.78	51.34	105.79	489.52	-5,877.53	4,262.86	4,181.04	81.82	52.099		
9,400.00	6,929.06	7,254.69	6,915.51	79.34	51.33	105.41	489.51	-5,877.52	4,162.89	4,081.03	81.85	50.858		
9,500.00	6,927.99	7,253.98	6,914.81	81.93	51.33	105.04	489.50	-5,877.52	4,062.92	3,981.03	81.89	49.616		
9,600.00	6,926.91	7,253.28	6,914.11	84.53	51.33	104.66	489.49	-5,877.52	3,962.95	3,881.03	81.92	48.375		
9,700.00	6,925.83	7,252.58	6,913.40	87.14	51.33	104.28	489.48	-5,877.52	3,862.99	3,781.03	81.96	47.134		
9,800.00	6,924.75	7,251.88	6,912.70	89.77	51.33	103.90	489.47	-5,877.51	3,763.02	3,681.03	82.00	45.892		
9,900.00	6,923.67	7,251.17	6,912.00	92.41	51.33	103.52	489.46	-5,877.51	3,663.06	3,581.02	82.04	44.651		
10,000.00	6,922.59	7,250.47	6,911.30	95.07	51.32	103.13	489.45	-5,877.51	3,563.10	3,481.02	82.08	43.409		
10,100.00	6,921.51	7,249.77	6,910.60	97.73	51.32	102.75	489.44	-5,877.50	3,463.14	3,381.01	82.13	42.168		
10,200.00	6,920.44	7,249.07	6,909.90	100.40	51.32	102.37	489.43	-5,877.50	3,363.19	3,281.01	82.18	40.926		
10,300.00	6,919.36	7,248.37	6,909.20	103.08	51.32	101.98	489.42	-5,877.50	3,263.23	3,181.00	82.23	39.685		
10,400.00	6,918.28	7,247.67	6,908.50	105.77	51.32	101.59	489.41	-5,877.49	3,163.28	3,081.00	82.28	38.443		
10,500.00	6,917.20	7,246.98	6,907.80	108.47	51.32	101.21	489.40	-5,877.49	3,063.34	2,980.99	82.34	37.202		
10,600.00	6,916.12	7,246.28	6,907.11	111.18	51.31	100.82	489.39	-5,877.49	2,963.39	2,880.99	82.41	35.961		
10,700.00	6,915.04	7,245.58	6,906.41	113.89	51.31	100.43	489.37	-5,877.48	2,863.45	2,780.98	82.47	34.720		
10,800.00	6,913.96	7,244.89	6,905.71	116.61	51.31	100.04	489.36	-5,877.48	2,763.52	2,680.97	82.54	33.479		
10,900.00	6,912.89	7,244.19	6,905.02	119.33	51.31	99.65	489.35	-5,877.48	2,663.58	2,580.96	82.62	32.239		
11,000.00	6,911.81	7,243.50	6,904.32	122.06	51.31	99.26	489.34	-5,877.47	2,563.66	2,480.95	82.70	30.998		
11,100.00	6,910.73	7,242.80	6,903.63	124.79	51.31	98.87	489.33	-5,877.47	2,463.74	2,380.94	82.79	29.758		
11,200.00	6,909.65	7,242.11	6,902.93	127.53	51.30	98.48	489.32	-5,877.47	2,363.82	2,280.93	82.89	28.517		
11,300.00	6,908.57	7,241.41	6,902.24	130.27	51.30	98.09	489.31	-5,877.46	2,263.92	2,180.92	83.00	27.277		
11,400.00	6,907.49	7,240.72	6,901.55	133.02	51.30	97.70	489.30	-5,877.46	2,164.02	2,080.90	83.12	26.036		
11,500.00	6,906.41	7,240.03	6,900.86	135.77	51.30	97.30	489.29	-5,877.46	2,064.13	1,980.88	83.25	24.796		
11,600.00	6,905.34	7,239.34	6,900.17	138.52	51.30	96.91	489.28	-5,877.46	1,964.25	1,880.86	83.39	23.555		
11,700.00	6,904.26	7,238.65	6,899.48	141.28	51.29	96.52	489.27	-5,877.45	1,864.39	1,780.83	83.56	22.313		
11,800.00	6,903.18	7,237.96	6,898.79	144.04	51.29	96.12	489.26	-5,877.45	1,764.54	1,680.80	83.74	21.071		
11,900.00	6,902.10	7,237.27	6,898.10	146.80	51.29	95.73	489.25	-5,877.45	1,664.71	1,580.75	83.96	19.829		
12,000.00	6,901.02	7,236.58	6,897.41	149.57	51.29	95.33	489.24	-5,877.44	1,564.90	1,480.69	84.20	18.585		
12,100.00	6,899.94	7,235.89	6,896.72	152.34	51.29	94.94	489.23	-5,877.44	1,465.11	1,380.62	84.49	17.340		
12,200.00	6,898.87	7,235.20	6,896.03	155.11	51.29	94.54	489.22	-5,877.44	1,365.36	1,280.52	84.84	16.093		
12,300.00	6,897.79	7,234.52	6,895.34	157.89	51.28	94.15	489.21	-5,877.43	1,265.64	1,180.38	85.26	14.844		
12,400.00	6,896.71	7,233.83	6,894.66	160.66	51.28	93.75	489.20	-5,877.43	1,165.98	1,080.20	85.78	13.592		
12,500.00	6,895.63	7,233.14	6,893.97	163.44	51.28	93.36	489.19	-5,877.43	1,066.37	979.94	86.43	12.338		
12,600.00	6,894.55	7,232.46	6,893.29	166.22	51.28	92.96	489.18	-5,877.42	966.85	879.58	87.27	11.079		
12,700.00	6,893.47	7,231.77	6,892.60	169.00	51.28	92.56	489.17	-5,877.42	867.43	779.06	88.37	9.816		
12,800.00	6,892.39	7,231.09	6,891.92	171.79	51.28	92.17	489.16	-5,877.42	768.17	678.31	89.86	8.548		
12,900.00	6,891.32	7,230.41	6,891.24	174.57	51.27	91.77	489.15	-5,877.41	669.13	577.17	91.96	7.277		
13,000.00	6,890.24	7,229.72	6,890.55	177.36	51.27	91.38	489.14	-5,877.41	570.41	475.40	95.01	6.004		
13,100.00	6,889.16	7,229.04	6,889.87	180.15	51.27	90.98	489.13	-5,877.41	472.24	372.54	99.70	4.737		
13,200.00	6,888.08	7,228.36	6,889.19	182.94	51.27	90.59	489.12	-5,877.40	375.04	267.68	107.35	3.493		
13,300.00	6,887.00	7,227.68	6,888.51	185.74	51.27	90.19	489.11	-5,877.40	279.81	158.87	120.94	2.314		
13,400.00	6,885.92	7,227.00	6,887.83	188.53	51.27	89.80	489.10	-5,877.40	189.56	41.88	147.68	1.284	Level 3	
13,500.00	6,884.84	7,226.32	6,887.15	191.32	51.26	89.40	489.09	-5,877.40	116.49	-83.64	200.13	0.582	Level 1	
13,561.82	6,884.18	7,225.90	6,886.73	193.05	51.26	89.16	489.09	-5,877.39	98.74	-128.16	226.90	0.435	Level 1, CC, ES, SF	
13,600.00	6,883.77	7,225.64	6,886.47	194.12	51.26	89.01	489.08	-5,877.39	105.87	-113.88	219.75	0.482	Level 1	
13,700.00	6,882.69	7,224.96	6,885.79	196.92	51.26	88.61	489.07	-5,877.39	169.83	5.12	164.71	1.031	Level 2	
13,800.00	6,881.61	7,224.28	6,885.11	199.72	51.26	88.22	489.06	-5,877.39	257.83	126.37	131.47	1.961		
13,900.00	6,880.53	7,223.60	6,884.43	202.52	51.26	87.83	489.05	-5,877.38	352.30	237.58	114.72	3.071		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-21D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,879.45	7,222.93	6,883.76	205.32	51.26	87.44	489.04	-5,877.38	449.16	343.74	105.42	4.261			
14,100.00	6,878.37	7,222.25	6,883.08	208.12	51.25	87.04	489.03	-5,877.38	547.16	447.36	99.80	5.483			
14,200.00	6,877.29	7,221.58	6,882.41	210.92	51.25	86.65	489.02	-5,877.37	645.76	549.59	96.17	6.715			
14,300.00	6,876.22	7,220.90	6,881.73	213.73	51.25	86.26	489.01	-5,877.37	744.74	651.03	93.71	7.947			
14,400.00	6,875.14	7,220.23	6,881.06	216.53	51.25	85.87	489.00	-5,877.37	843.96	751.98	91.98	9.175			
14,500.00	6,874.06	7,219.55	6,880.38	219.34	51.25	85.48	488.99	-5,877.36	943.34	852.62	90.73	10.398			
14,600.00	6,872.98	7,218.88	6,879.71	222.15	51.25	85.09	488.98	-5,877.36	1,042.85	953.05	89.80	11.614			
14,700.00	6,871.90	7,218.21	6,879.04	224.95	51.24	84.70	488.97	-5,877.36	1,142.43	1,053.34	89.09	12.823			
14,800.00	6,870.82	7,217.53	6,878.36	227.76	51.24	84.32	488.97	-5,877.35	1,242.09	1,153.53	88.55	14.027			
14,900.00	6,869.75	7,216.86	6,877.69	230.57	51.24	83.93	488.96	-5,877.35	1,341.79	1,253.66	88.13	15.224			
15,000.00	6,868.67	7,216.19	6,877.02	233.38	51.24	83.54	488.95	-5,877.35	1,441.54	1,353.73	87.81	16.417			
15,100.00	6,867.59	7,215.52	6,876.35	236.19	51.24	83.16	488.94	-5,877.35	1,541.32	1,453.76	87.55	17.605			
15,200.00	6,866.51	7,214.85	6,875.68	239.00	51.24	82.78	488.93	-5,877.34	1,641.12	1,553.77	87.35	18.788			
15,300.00	6,865.43	7,214.18	6,875.01	241.81	51.23	82.39	488.92	-5,877.34	1,740.95	1,653.75	87.19	19.966			
15,400.00	6,864.35	7,213.51	6,874.34	244.63	51.23	82.01	488.91	-5,877.34	1,840.79	1,753.72	87.07	21.141			
15,500.00	6,863.27	7,212.85	6,873.68	247.44	51.23	81.63	488.90	-5,877.33	1,940.65	1,853.67	86.98	22.312			
15,600.00	6,862.20	7,212.18	6,873.01	250.25	51.23	81.25	488.89	-5,877.33	2,040.53	1,953.62	86.91	23.478			
15,618.10	6,862.00	7,212.06	6,872.89	250.76	51.23	81.18	488.89	-5,877.33	2,058.60	1,971.70	86.90	23.689			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-22D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	-103.92	-1,351.31	-5,451.97	5,616.95						
100.00	100.00	53.45	53.45	3.28	3.28	-103.92	-1,351.14	-5,452.27	5,617.41	5,610.85	6.57	855.363			
200.00	200.00	109.20	109.19	3.34	3.29	-103.91	-1,350.59	-5,453.18	5,618.74	5,612.11	6.63	847.520			
300.00	299.98	207.26	207.21	3.44	3.36	-155.76	-1,349.13	-5,455.26	5,622.04	5,615.24	6.80	826.697			
400.00	399.84	311.33	311.25	3.61	3.48	-155.71	-1,347.68	-5,457.46	5,628.52	5,621.44	7.08	794.752			
500.00	499.45	442.09	441.98	3.81	3.71	-155.66	-1,345.93	-5,459.67	5,637.77	5,630.26	7.51	750.696			
600.00	598.70	543.64	543.50	4.06	3.93	-155.59	-1,344.15	-5,461.18	5,649.90	5,641.92	7.98	708.237			
700.00	697.47	635.24	635.07	4.35	4.16	-155.50	-1,342.11	-5,462.74	5,665.28	5,656.79	8.49	667.412			
800.00	795.62	745.39	745.18	4.66	4.46	-155.40	-1,339.74	-5,464.64	5,683.84	5,674.73	9.11	624.171			
900.00	893.06	837.91	837.65	5.01	4.74	-155.28	-1,337.36	-5,466.02	5,705.18	5,695.46	9.72	586.729			
961.44	952.51	875.02	874.74	5.25	4.86	-155.18	-1,336.21	-5,466.78	5,720.08	5,710.02	10.06	568.468			
1,000.00	989.71	900.00	899.70	5.40	4.94	-155.20	-1,335.36	-5,467.40	5,729.91	5,719.63	10.28	557.225			
1,100.00	1,086.20	1,009.02	1,008.62	5.81	5.31	-155.28	-1,331.67	-5,470.08	5,755.43	5,744.41	11.02	522.418			
1,200.00	1,182.69	1,096.13	1,095.66	6.24	5.61	-155.34	-1,328.84	-5,472.16	5,780.92	5,769.21	11.70	494.005			
1,300.00	1,279.18	1,211.57	1,211.01	6.69	6.03	-155.43	-1,325.19	-5,474.78	5,806.32	5,793.81	12.51	464.015			
1,400.00	1,375.67	1,274.06	1,273.46	7.15	6.25	-155.48	-1,323.39	-5,476.28	5,831.90	5,818.76	13.14	443.686			
1,500.00	1,472.15	1,373.30	1,372.63	7.62	6.62	-155.56	-1,320.75	-5,478.90	5,857.80	5,843.87	13.93	420.571			
1,600.00	1,568.64	1,478.08	1,477.34	8.10	7.02	-155.64	-1,317.91	-5,481.45	5,883.48	5,868.74	14.75	398.926			
1,700.00	1,665.13	1,604.07	1,603.26	8.59	7.50	-155.74	-1,314.57	-5,484.14	5,908.94	5,893.27	15.67	377.165			
1,800.00	1,761.62	1,703.05	1,702.19	9.08	7.88	-155.81	-1,312.06	-5,485.93	5,934.11	5,917.62	16.49	359.926			
1,900.00	1,858.11	1,742.44	1,741.56	9.58	8.03	-155.84	-1,311.06	-5,486.84	5,959.73	5,942.67	17.07	349.166			
2,000.00	1,954.60	1,800.00	1,799.06	10.08	8.26	-155.89	-1,309.55	-5,488.83	5,986.31	5,968.59	17.73	337.681			
2,100.00	2,051.09	1,800.00	1,799.06	10.59	8.26	-155.89	-1,309.55	-5,488.83	6,013.79	5,995.65	18.14	331.481			
2,200.00	2,147.57	1,853.95	1,852.90	11.09	8.48	-155.92	-1,307.62	-5,491.65	6,042.12	6,023.33	18.79	321.505			
2,300.00	2,244.06	1,900.00	1,898.77	11.61	8.68	-155.93	-1,305.21	-5,494.98	6,071.56	6,052.15	19.41	312.817			
2,400.00	2,340.55	1,990.31	1,988.64	12.12	9.07	-155.96	-1,299.93	-5,502.09	6,101.56	6,081.32	20.24	301.476			
2,500.00	2,437.04	2,144.55	2,142.08	12.64	9.75	-155.99	-1,288.97	-5,513.16	6,130.47	6,109.08	21.39	286.650			
2,600.00	2,533.53	2,200.00	2,197.17	13.15	10.00	-155.99	-1,284.24	-5,517.33	6,159.57	6,137.50	22.07	279.119			
2,700.00	2,630.02	2,254.97	2,251.75	13.67	10.25	-156.00	-1,279.47	-5,521.87	6,189.30	6,166.55	22.75	272.075			
2,800.00	2,726.50	2,300.00	2,296.43	14.19	10.46	-156.00	-1,275.64	-5,525.95	6,219.79	6,196.41	23.38	266.052			
2,900.00	2,822.99	2,362.48	2,358.35	14.72	10.76	-155.99	-1,270.05	-5,532.13	6,250.91	6,226.81	24.10	259.359			
3,000.00	2,919.48	3,000.00	2,471.91	15.24	13.92	-155.97	-1,258.37	-5,543.99	6,282.14	6,254.53	27.61	227.527			
3,100.00	3,015.97	2,600.00	2,593.19	15.76	11.92	-155.93	-1,244.04	-5,556.31	6,312.65	6,286.47	26.18	241.126			
3,200.00	3,112.46	2,672.36	2,664.51	16.29	12.30	-155.90	-1,234.51	-5,563.98	6,343.43	6,316.44	26.99	235.049			
3,300.00	3,208.95	2,730.97	2,722.25	16.81	12.60	-155.88	-1,226.90	-5,570.48	6,374.69	6,346.98	27.72	230.002			
3,400.00	3,305.44	2,800.00	2,790.26	17.34	12.96	-155.85	-1,218.23	-5,578.57	6,406.59	6,378.08	28.50	224.772			
3,500.00	3,401.92	2,845.31	2,834.88	17.87	13.20	-155.83	-1,212.65	-5,584.13	6,438.98	6,409.83	29.15	220.887			
3,600.00	3,498.41	2,900.00	2,888.70	18.40	13.49	-155.80	-1,205.88	-5,591.06	6,471.89	6,442.03	29.85	216.803			
3,700.00	3,594.90	2,955.86	2,943.64	18.93	13.79	-155.78	-1,198.95	-5,598.49	6,505.36	6,474.80	30.56	212.863			
3,800.00	3,691.39	3,000.00	2,986.99	19.46	14.03	-155.76	-1,193.49	-5,604.67	6,539.49	6,508.29	31.20	209.612			
3,900.00	3,787.88	3,057.06	3,043.00	19.99	14.35	-155.73	-1,186.51	-5,613.03	6,574.24	6,542.32	31.91	205.996			
4,000.00	3,884.37	3,135.66	3,120.10	20.52	14.79	-155.70	-1,177.03	-5,625.05	6,609.55	6,576.78	32.77	201.715			
4,100.00	3,980.85	3,253.22	3,235.31	21.05	15.47	-155.64	-1,161.78	-5,642.77	6,644.45	6,610.57	33.88	196.144			
4,200.00	4,077.34	3,357.55	3,337.47	21.58	16.08	-155.58	-1,147.71	-5,658.65	6,679.42	6,644.51	34.91	191.326			
4,300.00	4,173.83	3,519.89	3,496.51	22.11	17.01	-155.49	-1,125.34	-5,682.23	6,713.65	6,677.33	36.32	184.838			
4,390.25	4,260.91	3,594.91	3,570.09	22.59	17.44	-155.45	-1,115.21	-5,692.77	6,744.25	6,707.12	37.13	181.649			
4,400.00	4,270.32	3,608.73	3,583.64	22.64	17.51	-155.47	-1,113.30	-5,694.73	6,747.54	6,710.29	37.25	181.132			
4,500.00	4,367.33	3,752.78	3,724.78	23.16	18.34	-155.65	-1,092.36	-5,714.54	6,779.05	6,740.51	38.54	175.879			
4,600.00	4,465.13	3,828.99	3,799.39	23.65	18.78	-155.83	-1,080.97	-5,725.02	6,807.55	6,768.16	39.39	172.834			
4,700.00	4,563.60	3,900.00	3,868.88	24.12	19.19	-155.98	-1,070.34	-5,735.12	6,833.38	6,793.19	40.19	170.034			
4,800.00	4,662.61	4,800.00	3,969.07	24.56	24.40	-156.07	-1,055.72	-5,749.52	6,856.19	6,810.66	45.54	150.555			
4,900.00	4,762.05	4,072.35	4,037.75	24.98	20.18	-156.16	-1,045.96	-5,759.40	6,876.04	6,834.10	41.94	163.954			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SOUTH #6-22D - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-GYRO-NS														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,129.43	4,093.61	25.38	20.52	-156.23	-1,037.80	-5,767.82	6,893.30	6,850.70	42.60	161.805		
5,100.00	4,961.73	4,182.73	4,145.80	25.76	20.83	-156.28	-1,030.63	-5,775.93	6,908.06	6,864.83	43.23	159.807		
5,151.69	5,013.42	4,219.86	4,182.19	25.95	21.05	-104.39	-1,025.93	-5,781.69	6,914.69	6,871.09	43.60	158.578		
5,200.00	5,061.73	4,269.49	4,230.84	26.13	21.33	-104.33	-1,019.85	-5,789.36	6,920.52	6,876.47	44.05	157.105		
5,300.00	5,161.73	4,364.48	4,323.97	26.49	21.89	-104.20	-1,008.22	-5,804.01	6,932.61	6,887.68	44.93	154.298		
5,400.00	5,261.73	4,517.20	4,473.47	26.86	22.79	-103.99	-987.67	-5,827.47	6,944.40	6,898.19	46.21	150.288		
5,500.00	5,361.73	4,579.29	4,534.28	27.23	23.16	-103.90	-979.38	-5,836.89	6,956.08	6,909.20	46.88	148.392		
5,600.00	5,461.73	4,812.81	4,762.99	27.60	24.52	-103.58	-947.02	-5,871.12	6,967.31	6,918.62	48.69	143.094		
5,700.00	5,561.73	4,908.17	4,856.42	27.97	25.07	-103.44	-933.21	-5,884.28	6,977.49	6,927.90	49.59	140.711		
5,800.00	5,661.73	4,991.54	4,938.20	28.35	25.54	-103.32	-921.70	-5,895.72	6,987.79	6,937.39	50.40	138.660		
5,900.00	5,761.73	5,055.98	5,001.43	28.72	25.91	-103.24	-913.10	-5,904.71	6,998.44	6,947.36	51.08	137.013		
6,000.00	5,861.73	5,782.06	5,722.24	29.10	29.07	-102.69	-858.15	-5,961.90	7,001.46	6,946.27	55.18	126.879		
6,100.00	5,961.73	5,961.45	5,901.58	29.48	29.72	-102.67	-855.39	-5,965.39	7,003.08	6,946.79	56.29	124.403		
6,200.00	6,061.73	6,073.87	6,013.99	29.86	30.12	-102.65	-854.07	-5,966.50	7,003.76	6,946.65	57.12	122.624		
6,300.00	6,161.73	6,206.93	6,147.03	30.25	30.61	-102.64	-852.31	-5,967.67	7,004.36	6,946.33	58.03	120.707		
6,400.00	6,261.73	6,302.84	6,242.92	30.63	30.96	-102.62	-850.84	-5,968.31	7,004.67	6,945.89	58.78	119.158		
6,451.69	6,313.42	6,343.06	6,283.14	30.83	31.11	-102.62	-850.23	-5,968.62	7,004.89	6,945.75	59.14	118.451		
6,500.00	6,361.68	6,381.15	6,321.23	31.01	31.25	-10.18	-849.65	-5,968.97	7,003.36	6,943.90	59.46	117.786		
6,550.00	6,411.34	6,424.86	6,364.93	31.20	31.41	-10.27	-849.00	-5,969.42	6,998.05	6,938.25	59.79	117.039		
6,600.00	6,460.39	6,472.16	6,412.22	31.38	31.58	-10.42	-848.38	-5,969.92	6,988.94	6,928.81	60.13	116.232		
6,650.00	6,508.54	6,522.71	6,462.76	31.58	31.77	-10.66	-847.82	-5,970.43	6,976.07	6,915.60	60.47	115.371		
6,700.00	6,555.48	6,577.93	6,517.98	31.78	31.97	-10.98	-847.36	-5,970.90	6,959.47	6,898.66	60.81	114.448		
6,750.00	6,600.93	6,623.10	6,563.15	31.98	32.14	-11.40	-847.08	-5,971.23	6,939.25	6,878.16	61.09	113.584		
6,800.00	6,644.61	6,660.98	6,601.03	32.20	32.28	-11.92	-846.78	-5,971.55	6,915.61	6,854.28	61.33	112.756		
6,850.00	6,686.25	6,697.18	6,637.22	32.44	32.42	-12.57	-846.41	-5,971.90	6,888.70	6,827.15	61.55	111.922		
6,900.00	6,725.58	6,744.28	6,684.32	32.68	32.59	-13.39	-845.86	-5,972.38	6,858.64	6,796.84	61.80	110.981		
6,950.00	6,762.38	6,789.39	6,729.42	32.96	32.76	-14.42	-845.31	-5,972.78	6,825.58	6,763.55	62.03	110.038		
7,000.00	6,796.41	6,822.11	6,762.14	33.25	32.88	-15.69	-844.87	-5,973.06	6,789.75	6,727.56	62.19	109.169		
7,050.00	6,827.46	6,849.27	6,789.30	33.58	32.99	-17.29	-844.44	-5,973.32	6,751.42	6,689.09	62.33	108.323		
7,100.00	6,855.34	6,873.78	6,813.80	33.93	33.08	-19.34	-844.00	-5,973.59	6,710.81	6,648.37	62.44	107.476		
7,150.00	6,879.88	6,895.48	6,835.49	34.33	33.16	-22.04	-843.57	-5,973.85	6,668.17	6,605.64	62.54	106.631		
7,200.00	6,900.93	6,915.21	6,855.22	34.76	33.23	-25.69	-843.15	-5,974.09	6,623.77	6,561.15	62.62	105.780		
7,250.00	6,918.36	6,931.93	6,871.93	35.23	33.30	-30.78	-842.79	-5,974.31	6,577.87	6,515.18	62.69	104.931		
7,300.00	6,932.05	6,945.21	6,885.21	35.74	33.35	-38.14	-842.51	-5,974.48	6,530.75	6,468.01	62.74	104.087		
7,350.00	6,941.94	6,954.96	6,894.96	36.29	33.38	-49.11	-842.30	-5,974.61	6,482.71	6,419.93	62.79	103.249		
7,400.00	6,947.94	6,961.12	6,901.12	36.87	33.41	-65.36	-842.17	-5,974.69	6,434.04	6,371.22	62.82	102.419		
7,450.00	6,950.04	6,963.65	6,903.64	37.47	33.42	-86.87	-842.12	-5,974.72	6,385.04	6,322.19	62.85	101.595		
7,458.56	6,950.00	6,963.72	6,903.71	37.58	33.42	-90.80	-842.11	-5,974.72	6,376.64	6,313.79	62.85	101.455		
7,500.00	6,949.56	6,963.78	6,903.77	38.11	33.42	-90.81	-842.11	-5,974.72	6,335.98	6,273.11	62.87	100.776		
7,600.00	6,948.48	6,963.92	6,903.91	39.51	33.42	-90.81	-842.11	-5,974.73	6,237.90	6,174.97	62.93	99.125		
7,700.00	6,947.40	6,964.07	6,904.06	41.06	33.42	-90.82	-842.11	-5,974.73	6,139.89	6,076.88	63.00	97.453		
7,800.00	6,946.32	6,964.22	6,904.21	42.74	33.42	-90.83	-842.10	-5,974.73	6,041.94	5,978.84	63.09	95.760		
7,900.00	6,945.24	6,964.36	6,904.36	44.55	33.42	-90.83	-842.10	-5,974.73	5,944.06	5,880.85	63.20	94.045		
8,000.00	6,944.16	6,964.51	6,904.50	46.46	33.42	-90.84	-842.10	-5,974.73	5,846.25	5,782.92	63.33	92.300		
8,100.00	6,943.08	6,964.66	6,904.65	48.47	33.42	-90.85	-842.09	-5,974.74	5,748.52	5,685.03	63.48	90.551		
8,200.00	6,942.01	6,964.81	6,904.80	50.55	33.42	-90.85	-842.09	-5,974.74	5,650.86	5,587.20	63.66	88.770		
8,300.00	6,940.93	6,964.96	6,904.95	52.71	33.42	-90.86	-842.09	-5,974.74	5,553.29	5,489.43	63.86	86.966		
8,400.00	6,939.85	6,965.11	6,905.10	54.93	33.42	-90.87	-842.08	-5,974.74	5,455.81	5,391.73	64.08	85.139		
8,500.00	6,938.77	6,965.26	6,905.25	57.20	33.42	-90.87	-842.08	-5,974.74	5,358.42	5,294.08	64.33	83.290		
8,600.00	6,937.69	6,965.41	6,905.40	59.53	33.42	-90.88	-842.08	-5,974.75	5,261.12	5,196.51	64.62	81.418		
8,700.00	6,936.61	6,965.56	6,905.55	61.89	33.42	-90.89	-842.07	-5,974.75	5,163.94	5,099.00	64.94	79.523		
8,800.00	6,935.54	6,965.71	6,905.70	64.30	33.42	-90.90	-842.07	-5,974.75	5,066.86	5,001.57	65.29	77.607		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SOUTH #6-22D - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-GYRO-NS														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	6,934.46	6,965.86	6,905.85	66.74	33.43	-90.90	-842.07	-5,974.75	4,969.89	4,904.21	65.68	75.669		
9,000.00	6,933.38	6,966.01	6,906.00	69.21	33.43	-90.91	-842.06	-5,974.75	4,873.05	4,806.94	66.11	73.710		
9,100.00	6,932.30	6,966.16	6,906.15	71.71	33.43	-90.92	-842.06	-5,974.76	4,776.34	4,709.75	66.59	71.732		
9,200.00	6,931.22	6,966.31	6,906.30	74.23	33.43	-90.92	-842.06	-5,974.76	4,679.77	4,612.66	67.11	69.736		
9,300.00	6,930.14	6,966.46	6,906.45	76.78	33.43	-90.93	-842.05	-5,974.76	4,583.34	4,515.66	67.68	67.722		
9,400.00	6,929.06	6,966.62	6,906.61	79.34	33.43	-90.94	-842.05	-5,974.76	4,487.07	4,418.77	68.30	65.694		
9,500.00	6,927.99	6,966.77	6,906.76	81.93	33.43	-90.95	-842.05	-5,974.76	4,390.97	4,321.99	68.98	63.652		
9,600.00	6,926.91	6,966.92	6,906.91	84.53	33.43	-90.95	-842.04	-5,974.77	4,295.05	4,225.32	69.73	61.599		
9,700.00	6,925.83	6,967.08	6,907.07	87.14	33.43	-90.96	-842.04	-5,974.77	4,199.31	4,128.78	70.53	59.537		
9,800.00	6,924.75	6,967.23	6,907.22	89.77	33.43	-90.97	-842.04	-5,974.77	4,103.78	4,032.37	71.41	57.469		
9,900.00	6,923.67	6,967.39	6,907.38	92.41	33.43	-90.97	-842.03	-5,974.77	4,008.47	3,936.11	72.36	55.397		
10,000.00	6,922.59	6,967.54	6,907.53	95.07	33.43	-90.98	-842.03	-5,974.78	3,913.39	3,840.00	73.39	53.325		
10,100.00	6,921.51	6,967.70	6,907.69	97.73	33.43	-90.99	-842.03	-5,974.78	3,818.56	3,744.06	74.50	51.256		
10,200.00	6,920.44	6,967.85	6,907.84	100.40	33.43	-91.00	-842.02	-5,974.78	3,724.01	3,648.30	75.70	49.193		
10,300.00	6,919.36	6,968.01	6,908.00	103.08	33.43	-91.00	-842.02	-5,974.78	3,629.74	3,552.74	77.00	47.139		
10,400.00	6,918.28	6,968.16	6,908.15	105.77	33.43	-91.01	-842.02	-5,974.78	3,535.79	3,457.39	78.40	45.098		
10,500.00	6,917.20	6,968.32	6,908.31	108.47	33.43	-91.02	-842.01	-5,974.79	3,442.18	3,362.27	79.91	43.074		
10,600.00	6,916.12	6,968.48	6,908.47	111.18	33.44	-91.03	-842.01	-5,974.79	3,348.94	3,267.40	81.54	41.071		
10,700.00	6,915.04	6,968.63	6,908.62	113.89	33.44	-91.03	-842.01	-5,974.79	3,256.10	3,172.81	83.29	39.092		
10,800.00	6,913.96	6,968.79	6,908.78	116.61	33.44	-91.04	-842.00	-5,974.79	3,163.70	3,078.52	85.18	37.141		
10,900.00	6,912.89	6,968.95	6,908.94	119.33	33.44	-91.05	-842.00	-5,974.79	3,071.78	2,984.56	87.21	35.221		
11,000.00	6,911.81	6,969.11	6,909.10	122.06	33.44	-91.05	-842.00	-5,974.80	2,980.37	2,890.97	89.40	33.338		
11,100.00	6,910.73	6,969.27	6,909.26	124.79	33.44	-91.06	-841.99	-5,974.80	2,889.53	2,797.78	91.75	31.493		
11,200.00	6,909.65	6,969.43	6,909.42	127.53	33.44	-91.07	-841.99	-5,974.80	2,799.32	2,705.04	94.28	29.691		
11,300.00	6,908.57	6,969.59	6,909.57	130.27	33.44	-91.08	-841.99	-5,974.80	2,709.80	2,612.79	97.00	27.935		
11,400.00	6,907.49	6,969.75	6,909.73	133.02	33.44	-91.08	-841.98	-5,974.80	2,621.03	2,521.10	99.93	26.228		
11,500.00	6,906.41	6,969.91	6,909.90	135.77	33.44	-91.09	-841.98	-5,974.81	2,533.10	2,430.02	103.08	24.574		
11,600.00	6,905.34	6,970.07	6,910.06	138.52	33.44	-91.10	-841.98	-5,974.81	2,446.10	2,339.63	106.47	22.975		
11,700.00	6,904.26	6,970.23	6,910.22	141.28	33.44	-91.11	-841.97	-5,974.81	2,360.13	2,250.02	110.11	21.435		
11,800.00	6,903.18	6,970.39	6,910.38	144.04	33.44	-91.11	-841.97	-5,974.81	2,275.30	2,161.28	114.02	19.955		
11,900.00	6,902.10	6,970.55	6,910.54	146.80	33.44	-91.12	-841.97	-5,974.82	2,191.76	2,073.53	118.23	18.539		
12,000.00	6,901.02	6,970.71	6,910.70	149.57	33.44	-91.13	-841.96	-5,974.82	2,109.64	1,986.90	122.74	17.188		
12,100.00	6,899.94	6,970.88	6,910.86	152.34	33.44	-91.14	-841.96	-5,974.82	2,029.13	1,901.55	127.58	15.904		
12,200.00	6,898.87	6,971.04	6,911.03	155.11	33.44	-91.14	-841.96	-5,974.82	1,950.43	1,817.66	132.77	14.690		
12,300.00	6,897.79	6,971.20	6,911.19	157.89	33.45	-91.15	-841.95	-5,974.82	1,873.76	1,735.45	138.32	13.547		
12,400.00	6,896.71	6,971.37	6,911.36	160.66	33.45	-91.16	-841.95	-5,974.83	1,799.38	1,655.16	144.22	12.476		
12,500.00	6,895.63	6,971.53	6,911.52	163.44	33.45	-91.17	-841.95	-5,974.83	1,727.59	1,577.09	150.50	11.479		
12,600.00	6,894.55	6,971.70	6,911.68	166.22	33.45	-91.18	-841.94	-5,974.83	1,658.73	1,501.59	157.13	10.556		
12,700.00	6,893.47	6,971.86	6,911.85	169.00	33.45	-91.18	-841.94	-5,974.83	1,593.16	1,429.06	164.10	9.708		
12,800.00	6,892.39	6,972.03	6,912.01	171.79	33.45	-91.19	-841.94	-5,974.83	1,531.33	1,359.97	171.36	8.937		
12,900.00	6,891.32	6,972.19	6,912.18	174.57	33.45	-91.20	-841.93	-5,974.84	1,473.69	1,294.86	178.83	8.241		
13,000.00	6,890.24	6,972.36	6,912.35	177.36	33.45	-91.21	-841.93	-5,974.84	1,420.76	1,234.33	186.43	7.621		
13,100.00	6,889.16	6,972.52	6,912.51	180.15	33.45	-91.21	-841.92	-5,974.84	1,373.09	1,179.06	194.02	7.077		
13,200.00	6,888.08	6,972.69	6,912.68	182.94	33.45	-91.22	-841.92	-5,974.84	1,331.23	1,129.78	201.44	6.608		
13,300.00	6,887.00	6,972.86	6,912.85	185.74	33.45	-91.23	-841.92	-5,974.85	1,295.75	1,087.25	208.50	6.215		
13,400.00	6,885.92	6,973.03	6,913.02	188.53	33.45	-91.24	-841.91	-5,974.85	1,267.18	1,052.22	214.97	5.895		
13,500.00	6,884.84	6,973.19	6,913.18	191.32	33.45	-91.25	-841.91	-5,974.85	1,246.01	1,025.38	220.64	5.647		
13,600.00	6,883.77	6,973.36	6,913.35	194.12	33.45	-91.25	-841.91	-5,974.85	1,232.62	1,007.32	225.30	5.471		
13,700.00	6,882.69	6,973.53	6,913.52	196.92	33.45	-91.26	-841.90	-5,974.86	1,227.25	998.45	228.80	5.364		
13,716.02	6,882.51	6,973.56	6,913.55	197.37	33.45	-91.26	-841.90	-5,974.86	1,227.15	997.90	229.25	5.353 CC, ES		
13,800.00	6,881.61	6,973.70	6,913.69	199.72	33.45	-91.27	-841.90	-5,974.86	1,230.02	998.97	231.05	5.324 SF		
13,900.00	6,880.53	6,973.87	6,913.86	202.52	33.46	-91.28	-841.90	-5,974.86	1,240.86	1,008.86	232.01	5.348		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-22D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,879.45	6,974.04	6,914.03	205.32	33.46	-91.28	-841.89	-5,974.86	1,259.58	1,027.84	231.74	5.435			
14,100.00	6,878.37	6,974.21	6,914.20	208.12	33.46	-91.29	-841.89	-5,974.86	1,285.82	1,055.47	230.35	5.582			
14,200.00	6,877.29	6,974.38	6,914.37	210.92	33.46	-91.30	-841.88	-5,974.87	1,319.14	1,091.14	228.00	5.786			
14,300.00	6,876.22	6,974.56	6,914.54	213.73	33.46	-91.31	-841.88	-5,974.87	1,359.02	1,134.13	224.88	6.043			
14,400.00	6,875.14	6,974.73	6,914.72	216.53	33.46	-91.32	-841.88	-5,974.87	1,404.89	1,183.72	221.17	6.352			
14,500.00	6,874.06	6,974.90	6,914.89	219.34	33.46	-91.32	-841.87	-5,974.87	1,456.20	1,239.16	217.04	6.709			
14,600.00	6,872.98	6,975.07	6,915.06	222.15	33.46	-91.33	-841.87	-5,974.88	1,512.39	1,299.74	212.65	7.112			
14,700.00	6,871.90	6,975.25	6,915.23	224.95	33.46	-91.34	-841.87	-5,974.88	1,572.93	1,364.81	208.12	7.558			
14,800.00	6,870.82	6,975.42	6,915.41	227.76	33.46	-91.35	-841.86	-5,974.88	1,637.35	1,433.80	203.55	8.044			
14,900.00	6,869.75	6,975.59	6,915.58	230.57	33.46	-91.36	-841.86	-5,974.88	1,705.20	1,506.19	199.01	8.568			
15,000.00	6,868.67	6,975.77	6,915.76	233.38	33.46	-91.37	-841.85	-5,974.89	1,776.09	1,581.52	194.58	9.128			
15,100.00	6,867.59	6,975.94	6,915.93	236.19	33.46	-91.37	-841.85	-5,974.89	1,849.68	1,659.40	190.27	9.721			
15,200.00	6,866.51	6,976.12	6,916.11	239.00	33.46	-91.38	-841.85	-5,974.89	1,925.64	1,739.51	186.13	10.346			
15,300.00	6,865.43	6,976.30	6,916.28	241.81	33.46	-91.39	-841.84	-5,974.89	2,003.72	1,821.55	182.16	10.999			
15,400.00	6,864.35	6,976.47	6,916.46	244.63	33.47	-91.40	-841.84	-5,974.89	2,083.67	1,905.29	178.38	11.681			
15,500.00	6,863.27	6,976.65	6,916.64	247.44	33.47	-91.41	-841.84	-5,974.90	2,165.29	1,990.50	174.79	12.388			
15,600.00	6,862.20	6,976.83	6,916.81	250.25	33.47	-91.41	-841.83	-5,974.90	2,248.40	2,077.02	171.38	13.120			
15,618.10	6,862.00	6,976.86	6,916.85	250.76	33.47	-91.42	-841.83	-5,974.90	2,263.58	2,092.80	170.78	13.254			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-23D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	-104.20	-1,380.46	-5,454.77	5,626.73						
100.00	100.00	79.48	79.47	3.28	3.28	-104.20	-1,380.30	-5,454.99	5,626.97	5,620.40	6.57	856.557			
200.00	200.00	172.50	172.49	3.34	3.32	-104.19	-1,379.81	-5,455.65	5,627.53	5,620.87	6.66	845.044			
300.00	299.98	290.18	290.17	3.44	3.44	-156.07	-1,378.81	-5,456.46	5,629.59	5,622.70	6.88	817.821			
400.00	399.84	416.06	416.03	3.61	3.64	-156.03	-1,376.98	-5,456.97	5,634.41	5,627.16	7.24	777.894			
500.00	499.45	515.80	515.75	3.81	3.85	-155.99	-1,375.14	-5,457.25	5,642.20	5,634.54	7.66	737.037			
600.00	598.70	617.00	616.93	4.06	4.09	-155.93	-1,373.08	-5,457.57	5,653.15	5,645.00	8.15	693.931			
700.00	697.47	746.59	746.49	4.35	4.45	-155.87	-1,369.95	-5,457.75	5,667.01	5,658.22	8.79	645.071			
800.00	795.62	865.90	865.74	4.66	4.81	-155.79	-1,366.24	-5,457.41	5,683.43	5,673.97	9.46	600.671			
900.00	893.06	900.00	899.82	5.01	4.92	-155.64	-1,365.12	-5,457.29	5,703.25	5,693.34	9.91	575.579			
961.44	952.51	944.32	944.13	5.25	5.07	-155.56	-1,363.98	-5,457.37	5,717.25	5,706.98	10.27	556.573			
1,000.00	989.71	957.51	957.31	5.40	5.11	-155.57	-1,363.78	-5,457.48	5,726.69	5,716.24	10.46	547.737			
1,100.00	1,086.20	1,000.00	999.80	5.81	5.25	-155.62	-1,363.51	-5,458.13	5,751.94	5,740.98	10.96	524.772			
1,200.00	1,182.69	1,029.16	1,028.95	6.24	5.35	-155.65	-1,363.72	-5,458.80	5,778.18	5,766.74	11.44	505.252			
1,300.00	1,279.18	1,067.75	1,067.51	6.69	5.48	-155.70	-1,364.50	-5,459.88	5,805.41	5,793.45	11.95	485.613			
1,400.00	1,375.67	1,111.26	1,110.97	7.15	5.63	-155.76	-1,366.08	-5,461.38	5,833.58	5,821.08	12.50	466.658			
1,500.00	1,472.15	1,182.69	1,182.27	7.62	5.90	-155.86	-1,369.32	-5,464.08	5,862.37	5,849.21	13.16	445.395			
1,600.00	1,568.64	1,236.90	1,236.37	8.10	6.11	-155.94	-1,372.23	-5,466.28	5,891.67	5,877.89	13.77	427.819			
1,700.00	1,665.13	1,300.00	1,299.24	8.59	6.36	-156.05	-1,376.67	-5,469.14	5,921.76	5,907.33	14.42	410.553			
1,800.00	1,761.62	1,348.57	1,347.58	9.08	6.57	-156.13	-1,380.80	-5,471.47	5,952.46	5,937.43	15.03	396.006			
1,900.00	1,858.11	1,400.00	1,398.71	9.58	6.79	-156.23	-1,385.73	-5,473.93	5,983.68	5,968.03	15.65	382.240			
2,000.00	1,954.60	1,443.32	1,441.72	10.08	6.99	-156.31	-1,390.32	-5,476.23	6,015.68	5,999.43	16.25	370.194			
2,100.00	2,051.09	1,500.00	1,497.90	10.59	7.25	-156.43	-1,396.89	-5,479.90	6,048.77	6,031.86	16.91	357.741			
2,200.00	2,147.57	1,500.00	1,497.90	11.09	7.25	-156.43	-1,396.89	-5,479.90	6,082.61	6,065.31	17.30	351.561			
2,300.00	2,244.06	1,535.78	1,533.29	11.61	7.43	-156.50	-1,401.38	-5,482.68	6,117.54	6,099.68	17.87	342.427			
2,400.00	2,340.55	1,562.41	1,559.57	12.12	7.57	-156.55	-1,404.91	-5,485.03	6,153.52	6,135.14	18.38	334.782			
2,500.00	2,437.04	1,600.00	1,596.61	12.64	7.76	-156.63	-1,410.17	-5,488.77	6,190.55	6,171.61	18.95	326.733			
2,600.00	2,533.53	1,600.00	1,596.61	13.15	7.76	-156.63	-1,410.17	-5,488.77	6,228.58	6,209.26	19.32	322.369			
2,700.00	2,630.02	1,642.83	1,638.67	13.67	8.01	-156.73	-1,416.66	-5,493.55	6,267.49	6,247.57	19.92	314.649			
2,800.00	2,726.50	1,700.00	1,694.57	14.19	8.36	-156.86	-1,426.28	-5,500.72	6,307.67	6,287.08	20.59	306.332			
2,900.00	2,822.99	1,700.00	1,694.57	14.72	8.36	-156.86	-1,426.28	-5,500.72	6,348.31	6,327.36	20.95	303.031			
3,000.00	2,919.48	1,757.30	1,750.38	15.24	8.73	-156.99	-1,436.79	-5,508.34	6,389.92	6,368.29	21.64	295.333			
3,100.00	3,015.97	1,819.21	1,810.55	15.76	9.15	-157.14	-1,448.82	-5,516.55	6,431.93	6,409.57	22.35	287.768			
3,200.00	3,112.46	1,872.72	1,862.49	16.29	9.52	-157.28	-1,459.41	-5,523.85	6,474.44	6,451.42	23.02	281.250			
3,300.00	3,208.95	1,900.00	1,888.95	16.81	9.71	-157.34	-1,464.83	-5,527.68	6,517.58	6,494.05	23.53	277.041			
3,400.00	3,305.44	1,944.22	1,931.76	17.34	10.03	-157.45	-1,473.84	-5,534.17	6,561.43	6,537.29	24.14	271.812			
3,500.00	3,401.92	2,000.00	1,985.51	17.87	10.45	-157.59	-1,485.84	-5,542.99	6,606.31	6,581.49	24.82	266.130			
3,600.00	3,498.41	2,009.25	1,994.41	18.40	10.52	-157.61	-1,487.89	-5,544.51	6,651.71	6,626.50	25.21	263.889			
3,700.00	3,594.90	2,121.75	2,102.57	18.93	11.40	-157.90	-1,512.84	-5,562.76	6,697.49	6,671.21	26.28	254.899			
3,800.00	3,691.39	2,231.02	2,207.90	19.46	12.24	-158.16	-1,536.02	-5,580.30	6,742.87	6,715.56	27.32	246.855			
3,900.00	3,787.88	2,300.00	2,274.42	19.99	12.76	-158.32	-1,550.49	-5,591.48	6,788.42	6,760.33	28.08	241.718			
4,000.00	3,884.37	2,394.22	2,365.22	20.52	13.47	-158.54	-1,570.49	-5,606.74	6,834.10	6,805.07	29.03	235.445			
4,100.00	3,980.85	2,488.28	2,455.86	21.05	14.19	-158.76	-1,590.60	-5,621.79	6,879.74	6,849.77	29.97	229.548			
4,200.00	4,077.34	2,565.79	2,530.53	21.58	14.78	-158.94	-1,607.36	-5,634.12	6,925.44	6,894.63	30.81	224.791			
4,300.00	4,173.83	4,300.00	2,702.87	22.11	27.60	-159.36	-1,647.44	-5,661.45	6,971.18	6,929.91	41.27	168.936			
4,390.25	4,260.91	2,871.41	2,825.04	22.59	17.04	-159.66	-1,675.44	-5,679.04	7,011.15	6,977.64	33.51	209.214			
4,400.00	4,270.32	2,878.00	2,831.40	22.64	17.09	-159.71	-1,676.91	-5,679.94	7,015.44	6,981.86	33.59	208.875			
4,500.00	4,367.33	2,945.86	2,896.91	23.16	17.57	-160.18	-1,692.00	-5,689.30	7,058.06	7,023.71	34.35	205.451			
4,600.00	4,465.13	3,028.41	2,976.57	23.65	18.15	-160.64	-1,710.17	-5,701.00	7,097.99	7,062.78	35.21	201.595			
4,700.00	4,563.60	3,196.23	3,139.10	24.12	19.30	-161.18	-1,744.47	-5,724.94	7,134.53	7,097.91	36.62	194.835			
4,800.00	4,662.61	3,278.74	3,219.03	24.56	19.86	-161.54	-1,761.59	-5,736.13	7,167.46	7,130.02	37.45	191.409			
4,900.00	4,762.05	3,428.16	3,363.79	24.98	20.85	-161.97	-1,793.16	-5,755.41	7,196.75	7,158.04	38.72	185.878			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-23D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	3,474.32	3,408.52	25.38	21.15	-162.20	-1,802.85	-5,761.46	7,223.12	7,183.84	39.28	183.891			
5,100.00	4,961.73	3,558.41	3,489.92	25.76	21.71	-162.46	-1,820.52	-5,772.99	7,246.84	7,206.75	40.09	180.776			
5,151.69	5,013.42	5,151.69	3,536.14	25.95	32.49	-110.69	-1,830.41	-5,779.51	7,257.78	7,208.84	48.94	148.291			
5,200.00	5,061.73	3,600.00	3,530.21	26.13	21.99	-110.68	-1,829.14	-5,778.67	7,267.84	7,227.25	40.59	179.054			
5,300.00	5,161.73	3,662.88	3,590.95	26.49	22.44	-110.76	-1,842.87	-5,787.37	7,288.94	7,247.68	41.25	176.687			
5,400.00	5,261.73	3,700.00	3,626.62	26.86	22.71	-110.81	-1,851.69	-5,792.64	7,310.96	7,269.23	41.73	175.193			
5,500.00	5,361.73	3,756.55	3,680.80	27.23	23.15	-110.90	-1,865.63	-5,800.85	7,333.68	7,291.31	42.37	173.098			
5,600.00	5,461.73	3,817.41	3,739.03	27.60	23.63	-110.98	-1,880.82	-5,809.96	7,356.94	7,313.90	43.04	170.950			
5,700.00	5,561.73	3,892.39	3,810.77	27.97	24.23	-111.09	-1,899.27	-5,821.56	7,380.57	7,336.76	43.81	168.459			
5,800.00	5,661.73	5,800.00	4,088.40	28.35	37.56	-111.43	-1,962.54	-5,865.36	7,402.62	7,347.76	54.87	134.921			
5,900.00	5,761.73	4,311.31	4,215.12	28.72	27.23	-111.57	-1,988.92	-5,884.15	7,423.52	7,376.31	47.21	157.248			
6,000.00	5,861.73	4,392.41	4,293.68	29.10	27.78	-111.66	-2,005.43	-5,895.77	7,444.53	7,396.55	47.99	155.135			
6,100.00	5,961.73	4,451.17	4,350.48	29.48	28.19	-111.72	-2,017.87	-5,904.19	7,465.91	7,417.29	48.62	153.555			
6,200.00	6,061.73	4,512.95	4,410.08	29.86	28.63	-111.80	-2,031.33	-5,913.25	7,487.83	7,438.55	49.28	151.955			
6,300.00	6,161.73	4,610.80	4,504.42	30.25	29.34	-111.91	-2,052.96	-5,927.64	7,509.96	7,459.76	50.20	149.613			
6,400.00	6,261.73	6,297.92	6,167.35	30.63	37.26	-112.80	-2,233.16	-6,061.99	7,517.13	7,457.65	59.49	126.364			
6,451.69	6,313.42	6,376.15	6,245.58	30.83	37.50	-112.81	-2,234.12	-6,062.56	7,517.73	7,457.74	59.99	125.327			
6,500.00	6,361.68	6,426.96	6,296.38	31.01	37.65	-20.40	-2,234.68	-6,062.82	7,516.45	7,456.09	60.35	124.545			
6,550.00	6,411.34	6,468.00	6,337.41	31.20	37.78	-20.57	-2,235.12	-6,063.08	7,511.55	7,450.89	60.67	123.818			
6,600.00	6,460.39	6,515.22	6,384.63	31.38	37.92	-20.87	-2,235.61	-6,063.44	7,503.08	7,442.09	60.99	123.021			
6,650.00	6,508.54	6,585.93	6,455.34	31.58	38.14	-21.33	-2,236.37	-6,063.83	7,490.93	7,429.54	61.39	122.021			
6,700.00	6,555.48	6,637.37	6,506.77	31.78	38.30	-21.94	-2,237.02	-6,063.96	7,475.17	7,413.47	61.70	121.154			
6,750.00	6,600.93	6,682.80	6,552.19	31.98	38.44	-22.71	-2,237.76	-6,064.00	7,456.02	7,394.05	61.97	120.319			
6,800.00	6,644.61	6,716.33	6,585.72	32.20	38.54	-23.66	-2,238.41	-6,064.00	7,433.59	7,371.42	62.18	119.557			
6,850.00	6,686.25	6,742.10	6,611.49	32.44	38.62	-24.82	-2,238.94	-6,064.04	7,408.12	7,345.78	62.34	118.837			
6,900.00	6,725.58	6,766.52	6,635.90	32.68	38.70	-26.22	-2,239.47	-6,064.13	7,379.74	7,317.26	62.48	118.110			
6,950.00	6,762.38	6,800.00	6,669.37	32.96	38.80	-27.96	-2,240.21	-6,064.33	7,348.64	7,285.99	62.65	117.298			
7,000.00	6,796.41	6,839.79	6,709.15	33.25	38.93	-30.12	-2,241.14	-6,064.54	7,314.94	7,252.10	62.83	116.420			
7,050.00	6,827.46	6,910.92	6,780.26	33.58	39.15	-32.94	-2,242.88	-6,064.55	7,278.69	7,215.56	63.13	115.296			
7,100.00	6,855.34	7,100.00	6,774.10	33.93	39.75	-35.96	-2,242.72	-6,064.59	7,240.30	7,176.45	63.85	113.397			
7,150.00	6,879.88	6,925.23	6,794.56	34.33	39.20	-39.87	-2,243.22	-6,064.60	7,199.98	7,136.77	63.22	113.893			
7,200.00	6,900.93	6,934.65	6,803.98	34.76	39.23	-44.61	-2,243.44	-6,064.64	7,158.06	7,094.80	63.27	113.136			
7,250.00	6,918.36	6,942.54	6,811.87	35.23	39.25	-50.46	-2,243.62	-6,064.68	7,114.76	7,051.44	63.32	112.362			
7,300.00	6,932.05	6,948.84	6,818.16	35.74	39.27	-57.60	-2,243.76	-6,064.73	7,070.33	7,006.95	63.37	111.570			
7,350.00	6,941.94	6,953.48	6,822.81	36.29	39.29	-66.17	-2,243.87	-6,064.77	7,025.02	6,961.60	63.43	110.759			
7,400.00	6,947.94	6,956.42	6,825.75	36.87	39.30	-76.06	-2,243.93	-6,064.80	6,979.13	6,915.64	63.49	109.930			
7,450.00	6,950.04	6,957.62	6,826.94	37.47	39.30	-86.83	-2,243.96	-6,064.81	6,932.93	6,869.37	63.56	109.085			
7,458.56	6,950.00	6,957.65	6,826.97	37.58	39.30	-88.71	-2,243.96	-6,064.81	6,925.01	6,861.44	63.57	108.938			
7,500.00	6,949.56	6,957.65	6,826.98	38.11	39.30	-88.71	-2,243.96	-6,064.81	6,886.67	6,823.04	63.63	108.224			
7,600.00	6,948.48	6,957.67	6,826.99	39.51	39.30	-88.71	-2,243.96	-6,064.81	6,794.33	6,730.50	63.83	106.449			
7,700.00	6,947.40	6,957.68	6,827.00	41.06	39.30	-88.71	-2,243.96	-6,064.81	6,702.20	6,638.13	64.07	104.603			
7,800.00	6,946.32	6,957.69	6,827.02	42.74	39.30	-88.71	-2,243.96	-6,064.81	6,610.30	6,545.93	64.37	102.686			
7,900.00	6,945.24	6,957.71	6,827.03	44.55	39.30	-88.71	-2,243.96	-6,064.81	6,518.64	6,453.91	64.73	100.702			
8,000.00	6,944.16	6,957.72	6,827.05	46.46	39.30	-88.72	-2,243.96	-6,064.81	6,427.23	6,362.08	65.15	98.652			
8,100.00	6,943.08	6,957.74	6,827.06	48.47	39.30	-88.72	-2,243.96	-6,064.81	6,336.08	6,270.45	65.63	96.541			
8,200.00	6,942.01	6,957.75	6,827.08	50.55	39.30	-88.72	-2,243.96	-6,064.81	6,245.19	6,179.02	66.18	94.373			
8,300.00	6,940.93	6,957.77	6,827.09	52.71	39.30	-88.72	-2,243.96	-6,064.81	6,154.60	6,087.81	66.79	92.152			
8,400.00	6,939.85	6,957.78	6,827.11	54.93	39.30	-88.72	-2,243.96	-6,064.81	6,064.29	5,996.83	67.47	89.884			
8,500.00	6,938.77	6,957.80	6,827.12	57.20	39.30	-88.72	-2,243.96	-6,064.81	5,974.30	5,906.08	68.22	87.575			
8,600.00	6,937.69	6,957.81	6,827.14	59.53	39.30	-88.72	-2,243.96	-6,064.81	5,884.63	5,815.59	69.04	85.232			
8,700.00	6,936.61	6,957.83	6,827.16	61.89	39.30	-88.72	-2,243.97	-6,064.81	5,795.30	5,725.36	69.94	82.862			
8,800.00	6,935.54	6,957.85	6,827.17	64.30	39.30	-88.72	-2,243.97	-6,064.81	5,706.32	5,635.40	70.91	80.470			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SOUTH #6-23D - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-GYRO-NS														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	6,934.46	6,957.86	6,827.19	66.74	39.30	-88.72	-2,243.97	-6,064.81	5,617.71	5,545.75	71.96	78.064		
9,000.00	6,933.38	6,957.88	6,827.21	69.21	39.30	-88.72	-2,243.97	-6,064.81	5,529.49	5,456.40	73.09	75.652		
9,100.00	6,932.30	6,957.90	6,827.23	71.71	39.30	-88.72	-2,243.97	-6,064.81	5,441.68	5,367.38	74.30	73.239		
9,200.00	6,931.22	6,957.92	6,827.24	74.23	39.30	-88.72	-2,243.97	-6,064.81	5,354.29	5,278.70	75.59	70.832		
9,300.00	6,930.14	6,957.94	6,827.26	76.78	39.30	-88.72	-2,243.97	-6,064.82	5,267.36	5,190.39	76.97	68.438		
9,400.00	6,929.06	6,957.96	6,827.28	79.34	39.30	-88.72	-2,243.97	-6,064.82	5,180.89	5,102.47	78.42	66.062		
9,500.00	6,927.99	6,957.98	6,827.30	81.93	39.30	-88.72	-2,243.97	-6,064.82	5,094.92	5,014.95	79.97	63.711		
9,600.00	6,926.91	6,958.00	6,827.32	84.53	39.30	-88.72	-2,243.97	-6,064.82	5,009.48	4,927.87	81.60	61.388		
9,700.00	6,925.83	6,958.02	6,827.34	87.14	39.30	-88.72	-2,243.97	-6,064.82	4,924.58	4,841.25	83.33	59.099		
9,800.00	6,924.75	6,958.04	6,827.36	89.77	39.30	-88.72	-2,243.97	-6,064.82	4,840.25	4,755.11	85.14	56.849		
9,900.00	6,923.67	6,958.06	6,827.39	92.41	39.30	-88.72	-2,243.97	-6,064.82	4,756.54	4,669.49	87.05	54.640		
10,000.00	6,922.59	6,958.08	6,827.41	95.07	39.30	-88.72	-2,243.97	-6,064.82	4,673.46	4,584.41	89.06	52.477		
10,100.00	6,921.51	6,958.11	6,827.43	97.73	39.30	-88.72	-2,243.97	-6,064.82	4,591.06	4,499.90	91.16	50.362		
10,200.00	6,920.44	6,958.13	6,827.46	100.40	39.30	-88.72	-2,243.97	-6,064.82	4,509.37	4,416.01	93.37	48.298		
10,300.00	6,919.36	6,958.16	6,827.48	103.08	39.30	-88.72	-2,243.97	-6,064.82	4,428.44	4,332.77	95.67	46.288		
10,400.00	6,918.28	6,958.18	6,827.51	105.77	39.30	-88.73	-2,243.97	-6,064.82	4,348.29	4,250.21	98.08	44.333		
10,500.00	6,917.20	6,958.21	6,827.53	108.47	39.30	-88.73	-2,243.97	-6,064.82	4,268.99	4,168.39	100.60	42.434		
10,600.00	6,916.12	6,958.23	6,827.56	111.18	39.30	-88.73	-2,243.97	-6,064.82	4,190.57	4,087.34	103.23	40.594		
10,700.00	6,915.04	6,958.26	6,827.58	113.89	39.30	-88.73	-2,243.97	-6,064.82	4,113.08	4,007.11	105.97	38.813		
10,800.00	6,913.96	6,958.29	6,827.61	116.61	39.30	-88.73	-2,243.98	-6,064.82	4,036.59	3,927.76	108.83	37.092		
10,900.00	6,912.89	6,958.32	6,827.64	119.33	39.30	-88.73	-2,243.98	-6,064.82	3,961.14	3,849.34	111.80	35.431		
11,000.00	6,911.81	6,958.35	6,827.67	122.06	39.30	-88.73	-2,243.98	-6,064.82	3,886.81	3,771.91	114.89	33.830		
11,100.00	6,910.73	6,958.38	6,827.70	124.79	39.30	-88.73	-2,243.98	-6,064.82	3,813.64	3,695.54	118.10	32.291		
11,200.00	6,909.65	6,958.41	6,827.73	127.53	39.30	-88.73	-2,243.98	-6,064.82	3,741.72	3,620.28	121.44	30.812		
11,300.00	6,908.57	6,958.44	6,827.76	130.27	39.30	-88.73	-2,243.98	-6,064.82	3,671.11	3,546.21	124.90	29.393		
11,400.00	6,907.49	6,958.47	6,827.80	133.02	39.30	-88.73	-2,243.98	-6,064.82	3,601.90	3,473.42	128.48	28.035		
11,500.00	6,906.41	6,958.51	6,827.83	135.77	39.30	-88.73	-2,243.98	-6,064.82	3,534.16	3,401.97	132.19	26.736		
11,600.00	6,905.34	6,958.54	6,827.87	138.52	39.30	-88.73	-2,243.98	-6,064.82	3,467.98	3,331.96	136.02	25.496		
11,700.00	6,904.26	6,958.58	6,827.90	141.28	39.30	-88.73	-2,243.98	-6,064.82	3,403.45	3,263.47	139.97	24.315		
11,800.00	6,903.18	6,958.62	6,827.94	144.04	39.30	-88.73	-2,243.98	-6,064.82	3,340.67	3,196.62	144.05	23.191		
11,900.00	6,902.10	6,958.65	6,827.98	146.80	39.30	-88.74	-2,243.98	-6,064.82	3,279.73	3,131.49	148.24	22.124		
12,000.00	6,901.02	6,958.69	6,828.02	149.57	39.30	-88.74	-2,243.98	-6,064.82	3,220.75	3,068.20	152.55	21.113		
12,100.00	6,899.94	6,958.74	6,828.06	152.34	39.30	-88.74	-2,243.99	-6,064.82	3,163.84	3,006.87	156.96	20.157		
12,200.00	6,898.87	6,958.78	6,828.10	155.11	39.31	-88.74	-2,243.99	-6,064.82	3,109.09	2,947.62	161.47	19.255		
12,300.00	6,897.79	6,958.82	6,828.15	157.89	39.31	-88.74	-2,243.99	-6,064.82	3,056.64	2,890.57	166.07	18.405		
12,400.00	6,896.71	6,958.87	6,828.19	160.66	39.31	-88.74	-2,243.99	-6,064.82	3,006.60	2,835.85	170.75	17.608		
12,500.00	6,895.63	6,958.92	6,828.24	163.44	39.31	-88.74	-2,243.99	-6,064.83	2,959.10	2,783.60	175.49	16.862		
12,600.00	6,894.55	6,958.97	6,828.29	166.22	39.31	-88.74	-2,243.99	-6,064.83	2,914.25	2,733.97	180.28	16.165		
12,700.00	6,893.47	6,959.02	6,828.34	169.00	39.31	-88.74	-2,243.99	-6,064.83	2,872.19	2,687.08	185.10	15.517		
12,800.00	6,892.39	6,959.07	6,828.39	171.79	39.31	-88.74	-2,243.99	-6,064.83	2,833.03	2,643.09	189.93	14.916		
12,900.00	6,891.32	6,959.13	6,828.45	174.57	39.31	-88.75	-2,243.99	-6,064.83	2,796.90	2,602.15	194.75	14.361		
13,000.00	6,890.24	6,959.18	6,828.51	177.36	39.31	-88.75	-2,244.00	-6,064.83	2,763.92	2,564.39	199.53	13.852		
13,100.00	6,889.16	6,959.24	6,828.57	180.15	39.31	-88.75	-2,244.00	-6,064.83	2,734.20	2,529.95	204.25	13.386		
13,200.00	6,888.08	6,959.31	6,828.63	182.94	39.31	-88.75	-2,244.00	-6,064.83	2,707.85	2,498.97	208.88	12.963		
13,300.00	6,887.00	6,959.37	6,828.70	185.74	39.31	-88.75	-2,244.00	-6,064.83	2,684.97	2,471.57	213.39	12.582		
13,400.00	6,885.92	6,959.44	6,828.76	188.53	39.31	-88.75	-2,244.00	-6,064.83	2,665.64	2,447.88	217.76	12.241		
13,500.00	6,884.84	6,959.51	6,828.84	191.32	39.31	-88.75	-2,244.00	-6,064.83	2,649.95	2,428.00	221.95	11.939		
13,600.00	6,883.77	6,959.59	6,828.91	194.12	39.31	-88.76	-2,244.01	-6,064.83	2,637.96	2,412.02	225.94	11.675		
13,700.00	6,882.69	6,959.67	6,828.99	196.92	39.31	-88.76	-2,244.01	-6,064.83	2,629.72	2,400.01	229.71	11.448		
13,800.00	6,881.61	6,959.75	6,829.07	199.72	39.31	-88.76	-2,244.01	-6,064.83	2,625.27	2,392.04	233.23	11.256		
13,867.00	6,880.89	6,959.80	6,829.13	201.59	39.31	-88.76	-2,244.01	-6,064.83	2,624.42	2,388.98	235.44	11.147	CC	
13,900.00	6,880.53	6,959.83	6,829.16	202.52	39.31	-88.76	-2,244.01	-6,064.83	2,624.62	2,388.15	236.48	11.099	ES	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-23D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,879.45	6,959.92	6,829.25	205.32	39.31	-88.76	-2,244.01	-6,064.84	2,627.78	2,388.34	239.44	10.975			
14,100.00	6,878.37	6,960.02	6,829.34	208.12	39.31	-88.77	-2,244.01	-6,064.84	2,634.74	2,392.63	242.11	10.882			
14,200.00	6,877.29	6,960.12	6,829.44	210.92	39.31	-88.77	-2,244.02	-6,064.84	2,645.46	2,400.99	244.47	10.821			
14,300.00	6,876.22	6,960.23	6,829.55	213.73	39.31	-88.77	-2,244.02	-6,064.84	2,659.90	2,413.37	246.52	10.790			
14,400.00	6,875.14	6,960.34	6,829.66	216.53	39.31	-88.77	-2,244.02	-6,064.84	2,677.99	2,429.73	248.26	10.787 SF			
14,500.00	6,874.06	6,960.46	6,829.78	219.34	39.31	-88.77	-2,244.02	-6,064.84	2,699.68	2,449.98	249.70	10.812			
14,600.00	6,872.98	6,960.58	6,829.91	222.15	39.31	-88.78	-2,244.03	-6,064.84	2,724.86	2,474.02	250.84	10.863			
14,700.00	6,871.90	6,960.72	6,830.04	224.95	39.31	-88.78	-2,244.03	-6,064.84	2,753.44	2,501.76	251.68	10.940			
14,800.00	6,870.82	6,960.86	6,830.18	227.76	39.31	-88.78	-2,244.03	-6,064.85	2,785.33	2,533.07	252.26	11.042			
14,900.00	6,869.75	6,961.01	6,830.33	230.57	39.31	-88.79	-2,244.04	-6,064.85	2,820.40	2,567.83	252.57	11.167			
15,000.00	6,868.67	6,961.17	6,830.49	233.38	39.31	-88.79	-2,244.04	-6,064.85	2,858.54	2,605.90	252.64	11.315			
15,100.00	6,867.59	6,961.34	6,830.67	236.19	39.31	-88.79	-2,244.04	-6,064.85	2,899.63	2,647.15	252.48	11.484			
15,200.00	6,866.51	6,961.53	6,830.85	239.00	39.31	-88.80	-2,244.05	-6,064.85	2,943.54	2,691.42	252.12	11.675			
15,300.00	6,865.43	6,961.73	6,831.05	241.81	39.31	-88.80	-2,244.05	-6,064.86	2,990.16	2,738.59	251.57	11.886			
15,400.00	6,864.35	6,961.95	6,831.27	244.63	39.32	-88.81	-2,244.06	-6,064.86	3,039.35	2,788.49	250.86	12.116			
15,500.00	6,863.27	6,962.18	6,831.50	247.44	39.32	-88.81	-2,244.06	-6,064.86	3,090.99	2,841.01	249.99	12.365			
15,600.00	6,862.20	6,962.43	6,831.76	250.25	39.32	-88.82	-2,244.07	-6,064.86	3,144.97	2,895.98	248.99	12.631			
15,618.10	6,862.00	6,962.48	6,831.80	250.76	39.32	-88.82	-2,244.07	-6,064.86	3,154.98	2,906.18	248.80	12.681			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	10.31	10.31	3.28	3.28	-104.31	-1,391.38	-5,454.76	5,629.42					
100.00	100.00	154.43	154.42	3.28	3.31	-104.31	-1,391.30	-5,453.67	5,628.57	5,621.97	6.60	853.370		
200.00	200.00	242.66	242.66	3.34	3.38	-104.31	-1,391.27	-5,452.98	5,627.80	5,621.08	6.72	837.477		
220.81	220.81	262.22	262.21	3.35	3.40	-156.21	-1,391.27	-5,452.85	5,627.73	5,620.97	6.76	832.589		
300.00	299.98	331.77	331.76	3.44	3.50	-156.21	-1,391.28	-5,452.41	5,628.78	5,621.84	6.94	811.048		
400.00	399.84	415.71	415.70	3.61	3.64	-156.19	-1,391.29	-5,452.12	5,633.24	5,626.00	7.24	778.083		
500.00	499.45	515.54	515.53	3.81	3.84	-156.16	-1,391.22	-5,451.94	5,641.03	5,633.38	7.65	737.376		
600.00	598.70	624.54	624.53	4.06	4.10	-156.13	-1,391.03	-5,451.59	5,651.82	5,643.66	8.16	692.703		
700.00	697.47	709.17	709.16	4.35	4.33	-156.07	-1,390.97	-5,451.38	5,665.90	5,657.23	8.67	653.625		
800.00	795.62	796.79	796.78	4.66	4.58	-155.99	-1,391.00	-5,451.33	5,683.34	5,674.11	9.23	615.570		
900.00	893.06	862.43	862.42	5.01	4.78	-155.88	-1,391.30	-5,451.47	5,704.29	5,694.52	9.77	583.904		
961.44	952.51	900.00	899.98	5.25	4.90	-155.80	-1,391.72	-5,451.66	5,718.98	5,708.87	10.11	565.824		
1,000.00	989.71	900.00	899.98	5.40	4.90	-155.80	-1,391.72	-5,451.66	5,728.76	5,718.52	10.25	559.064		
1,100.00	1,086.20	950.11	950.07	5.81	5.07	-155.87	-1,392.93	-5,452.22	5,754.68	5,743.90	10.78	534.053		
1,200.00	1,182.69	1,000.00	999.90	6.24	5.24	-155.94	-1,395.15	-5,453.27	5,781.72	5,770.40	11.32	510.762		
1,300.00	1,279.18	1,023.81	1,023.66	6.69	5.33	-155.98	-1,396.56	-5,453.92	5,809.67	5,797.88	11.79	492.676		
1,400.00	1,375.67	1,065.02	1,064.74	7.15	5.48	-156.05	-1,399.52	-5,455.22	5,838.59	5,826.26	12.34	473.245		
1,500.00	1,472.15	1,100.00	1,099.57	7.62	5.62	-156.12	-1,402.54	-5,456.49	5,868.42	5,855.56	12.87	456.151		
1,600.00	1,568.64	1,148.28	1,147.56	8.10	5.83	-156.21	-1,407.48	-5,458.46	5,899.12	5,885.65	13.47	438.009		
1,700.00	1,665.13	1,200.00	1,198.83	8.59	6.07	-156.32	-1,413.79	-5,460.84	5,930.72	5,916.62	14.09	420.900		
1,800.00	1,761.62	1,238.97	1,237.39	9.08	6.26	-156.41	-1,419.15	-5,462.79	5,963.09	5,948.42	14.68	406.339		
1,900.00	1,858.11	1,300.00	1,297.63	9.58	6.57	-156.56	-1,428.36	-5,466.01	5,996.21	5,980.84	15.37	390.120		
2,000.00	1,954.60	1,330.39	1,327.56	10.08	6.74	-156.63	-1,433.31	-5,467.74	6,030.07	6,014.15	15.92	378.672		
2,100.00	2,051.09	1,367.99	1,364.52	10.59	6.95	-156.73	-1,439.79	-5,470.09	6,064.84	6,048.32	16.52	367.209		
2,200.00	2,147.57	1,410.77	1,406.48	11.09	7.20	-156.84	-1,447.63	-5,473.03	6,100.48	6,083.34	17.14	355.948		
2,300.00	2,244.06	1,487.41	1,481.46	11.61	7.66	-157.05	-1,462.61	-5,478.32	6,136.64	6,118.67	17.97	341.587		
2,400.00	2,340.55	1,541.48	1,534.21	12.12	8.00	-157.20	-1,473.85	-5,482.03	6,173.22	6,154.55	18.67	330.618		
2,500.00	2,437.04	1,600.00	1,591.16	12.64	8.37	-157.36	-1,486.63	-5,486.28	6,210.51	6,191.10	19.41	319.982		
2,600.00	2,533.53	1,664.48	1,653.71	13.15	8.80	-157.56	-1,501.58	-5,490.97	6,248.30	6,228.10	20.20	309.283		
2,700.00	2,630.02	1,722.85	1,710.11	13.67	9.20	-157.74	-1,516.03	-5,495.01	6,286.45	6,265.48	20.97	299.824		
2,800.00	2,726.50	1,763.97	1,749.68	14.19	9.50	-157.87	-1,526.85	-5,497.94	6,325.32	6,303.70	21.62	292.504		
2,900.00	2,822.99	1,800.00	1,784.21	14.72	9.77	-157.99	-1,536.77	-5,500.60	6,364.98	6,342.73	22.24	286.159		
3,000.00	2,919.48	1,843.24	1,825.50	15.24	10.11	-158.13	-1,549.17	-5,503.95	6,405.41	6,382.48	22.93	279.343		
3,100.00	3,015.97	1,900.00	1,879.44	15.76	10.56	-158.33	-1,566.19	-5,508.64	6,446.69	6,422.97	23.72	271.787		
3,200.00	3,112.46	1,921.25	1,899.56	16.29	10.75	-158.41	-1,572.78	-5,510.47	6,488.62	6,464.38	24.24	267.690		
3,300.00	3,208.95	1,961.97	1,937.99	16.81	11.10	-158.55	-1,585.77	-5,514.05	6,531.35	6,506.44	24.92	262.132		
3,400.00	3,305.44	2,000.00	1,973.72	17.34	11.44	-158.69	-1,598.32	-5,517.49	6,574.81	6,549.25	25.57	257.168		
3,500.00	3,401.92	2,052.20	2,022.55	17.87	11.93	-158.88	-1,616.16	-5,522.28	6,618.93	6,592.57	26.36	251.098		
3,600.00	3,498.41	2,100.00	2,067.02	18.40	12.38	-159.07	-1,633.10	-5,526.67	6,663.64	6,636.53	27.11	245.797		
3,700.00	3,594.90	2,141.24	2,105.24	18.93	12.79	-159.23	-1,648.10	-5,530.54	6,709.01	6,681.19	27.81	241.202		
3,800.00	3,691.39	2,200.00	2,159.48	19.46	13.39	-159.46	-1,669.96	-5,536.32	6,755.12	6,726.44	28.68	235.514		
3,900.00	3,787.88	2,200.00	2,159.48	19.99	13.39	-159.46	-1,669.96	-5,536.32	6,801.87	6,772.89	28.98	234.691		
4,000.00	3,884.37	2,255.48	2,210.45	20.52	13.98	-159.67	-1,691.11	-5,542.11	6,849.27	6,819.44	29.83	229.616		
4,100.00	3,980.85	2,300.00	2,251.16	21.05	14.45	-159.85	-1,708.43	-5,547.01	6,897.45	6,866.88	30.56	225.686		
4,200.00	4,077.34	2,328.72	2,277.35	21.58	14.78	-159.96	-1,719.76	-5,550.29	6,946.28	6,915.14	31.14	223.047		
4,300.00	4,173.83	2,366.24	2,311.47	22.11	15.21	-160.11	-1,734.75	-5,554.69	6,995.80	6,963.99	31.81	219.926		
4,390.25	4,260.91	2,400.00	2,342.07	22.59	15.59	-160.25	-1,748.40	-5,558.77	7,041.05	7,008.64	32.41	217.276		
4,400.00	4,270.32	2,400.00	2,342.07	22.64	15.59	-160.29	-1,748.40	-5,558.77	7,045.96	7,013.52	32.43	217.257		
4,500.00	4,367.33	2,454.19	2,391.01	23.16	16.24	-160.87	-1,770.68	-5,565.44	7,094.99	7,061.71	33.28	213.190		
4,600.00	4,465.13	2,500.00	2,432.22	23.65	16.79	-161.39	-1,789.88	-5,571.09	7,141.65	7,107.63	34.02	209.908		
4,700.00	4,563.60	2,537.80	2,466.06	24.12	17.28	-161.84	-1,806.05	-5,575.81	7,186.01	7,151.32	34.69	207.150		
4,800.00	4,662.61	2,572.77	2,497.19	24.56	17.73	-162.25	-1,821.35	-5,580.27	7,228.11	7,192.80	35.31	204.703		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-24D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
4,900.00	4,762.05	2,600.00	2,521.31	24.98	18.09	-162.60	-1,833.49	-5,583.79	7,267.93	7,232.11	35.83	202.870			
5,000.00	4,861.80	2,661.09	2,575.18	25.38	18.93	-163.05	-1,861.14	-5,591.82	7,305.29	7,268.53	36.76	198.722			
5,100.00	4,961.73	2,734.55	2,639.72	25.76	19.95	-163.50	-1,894.81	-5,601.67	7,340.13	7,302.29	37.84	193.996			
5,151.69	5,013.42	2,833.38	2,726.94	25.95	21.30	-112.00	-1,939.36	-5,614.95	7,356.84	7,317.72	39.12	188.047			
5,200.00	5,061.73	2,800.00	2,776.32	26.13	52.90	-112.16	-1,963.52	-5,622.40	7,371.70	7,308.05	63.65	115.815			
5,300.00	5,161.73	2,958.53	2,838.42	26.49	22.95	-112.36	-1,993.61	-5,631.97	7,402.78	7,361.96	40.82	181.336			
5,400.00	5,261.73	3,253.84	3,104.22	26.86	26.61	-113.14	-2,115.13	-5,674.04	7,434.38	7,390.12	44.26	167.957			
5,500.00	5,361.73	3,699.32	3,513.65	27.23	31.14	-114.20	-2,282.63	-5,725.75	7,461.35	7,412.58	48.77	152.981			
5,600.00	5,461.73	3,700.00	3,514.28	27.60	31.15	-114.20	-2,282.88	-5,725.82	7,486.79	7,437.83	48.96	152.930			
5,700.00	5,561.73	3,749.02	3,559.37	27.97	31.64	-114.32	-2,301.49	-5,730.61	7,512.87	7,463.26	49.61	151.433			
5,800.00	5,661.73	3,800.00	3,605.76	28.35	32.16	-114.45	-2,321.92	-5,736.03	7,540.23	7,489.95	50.28	149.955			
5,900.00	5,761.73	3,800.00	3,605.76	28.72	32.16	-114.45	-2,321.92	-5,736.03	7,568.16	7,517.71	50.45	150.028			
6,000.00	5,861.73	3,839.00	3,641.01	29.10	32.61	-114.55	-2,338.04	-5,740.42	7,597.10	7,546.08	51.02	148.900			
6,100.00	5,961.73	3,900.00	3,695.97	29.48	33.31	-114.71	-2,363.50	-5,747.59	7,626.76	7,574.93	51.83	147.142			
6,200.00	6,061.73	3,936.83	3,729.08	29.86	33.75	-114.80	-2,379.01	-5,752.06	7,656.98	7,604.59	52.39	146.156			
6,300.00	6,161.73	4,000.00	3,785.76	30.25	34.51	-114.97	-2,405.77	-5,759.85	7,687.74	7,634.51	53.23	144.412			
6,400.00	6,261.73	4,249.02	4,011.35	30.63	37.33	-115.58	-2,506.66	-5,790.15	7,717.17	7,661.14	56.02	137.749			
6,451.69	6,313.42	4,271.62	4,032.04	30.83	37.57	-115.63	-2,515.28	-5,793.07	7,732.35	7,676.03	56.33	137.276			
6,500.00	6,361.68	4,300.00	4,058.00	31.01	37.87	-22.77	-2,526.10	-5,796.85	7,745.10	7,688.43	56.67	136.676			
6,550.00	6,411.34	4,300.00	4,058.00	31.20	37.87	-22.42	-2,526.10	-5,796.85	7,755.01	7,698.31	56.70	136.767			
6,600.00	6,460.39	4,340.65	4,095.14	31.38	38.33	-22.31	-2,541.67	-5,802.43	7,761.45	7,704.31	57.14	135.831			
6,650.00	6,508.54	4,364.78	4,117.14	31.58	38.60	-22.27	-2,550.96	-5,805.80	7,764.49	7,707.10	57.39	135.289			
6,700.00	6,555.48	4,400.00	4,149.23	31.78	39.00	-22.39	-2,564.60	-5,810.83	7,764.09	7,706.35	57.74	134.463			
6,750.00	6,600.93	4,426.48	4,173.32	31.98	39.30	-22.62	-2,574.91	-5,814.62	7,760.20	7,702.21	57.99	133.816			
6,800.00	6,644.61	4,476.42	4,218.69	32.20	39.88	-23.06	-2,594.59	-5,821.60	7,752.77	7,694.30	58.47	132.587			
6,850.00	6,686.25	4,518.87	4,257.17	32.44	40.38	-23.62	-2,611.55	-5,827.36	7,741.84	7,682.97	58.87	131.518			
6,900.00	6,725.58	4,554.31	4,289.24	32.68	40.79	-24.31	-2,625.87	-5,832.09	7,727.53	7,668.35	59.18	130.587			
6,950.00	6,762.38	4,587.91	4,319.60	32.96	41.19	-25.18	-2,639.59	-5,836.50	7,709.95	7,650.49	59.46	129.676			
7,000.00	6,796.41	4,614.01	4,343.14	33.25	41.50	-26.20	-2,650.34	-5,839.89	7,689.21	7,629.56	59.65	128.899			
7,050.00	6,827.46	4,635.18	4,362.20	33.58	41.75	-27.41	-2,659.13	-5,842.63	7,665.48	7,605.68	59.80	128.194			
7,100.00	6,855.34	4,654.71	4,379.76	33.93	41.99	-28.86	-2,667.31	-5,845.15	7,638.89	7,578.97	59.92	127.484			
7,150.00	6,879.88	4,672.50	4,395.73	34.33	42.20	-30.59	-2,674.81	-5,847.44	7,609.61	7,549.58	60.03	126.766			
7,200.00	6,900.93	4,700.00	4,420.37	34.76	42.54	-32.74	-2,686.49	-5,850.98	7,577.81	7,517.56	60.25	125.771			
7,250.00	6,918.36	4,700.00	4,420.37	35.23	42.54	-35.09	-2,686.49	-5,850.98	7,543.64	7,483.46	60.18	125.351			
7,300.00	6,932.05	4,717.81	4,436.31	35.74	42.76	-38.09	-2,694.08	-5,853.28	7,507.33	7,447.01	60.32	124.454			
7,350.00	6,941.94	4,730.16	4,447.38	36.29	42.91	-41.64	-2,699.33	-5,854.89	7,469.08	7,408.67	60.42	123.620			
7,400.00	6,947.94	4,740.01	4,456.20	36.87	43.03	-45.90	-2,703.51	-5,856.19	7,429.12	7,368.61	60.51	122.780			
7,450.00	6,950.04	4,747.26	4,462.70	37.47	43.12	-50.98	-2,706.58	-5,857.16	7,387.67	7,327.08	60.59	121.933			
7,458.56	6,950.00	4,748.24	4,463.57	37.58	43.14	-51.94	-2,707.00	-5,857.29	7,380.45	7,319.84	60.60	121.782			
7,500.00	6,949.56	4,752.79	4,467.65	38.11	43.19	-52.01	-2,708.92	-5,857.89	7,345.40	7,284.74	60.67	121.076			
7,600.00	6,948.48	4,763.87	4,477.58	39.51	43.33	-52.16	-2,713.61	-5,859.38	7,261.11	7,200.24	60.87	119.288			
7,700.00	6,947.40	4,775.12	4,487.67	41.06	43.47	-52.32	-2,718.35	-5,860.90	7,177.19	7,116.05	61.14	117.382			
7,800.00	6,946.32	4,786.54	4,497.91	42.74	43.61	-52.48	-2,723.16	-5,862.46	7,093.67	7,032.18	61.49	115.360			
7,900.00	6,945.24	4,800.00	4,509.99	44.55	43.78	-52.67	-2,728.81	-5,864.31	7,010.55	6,948.62	61.94	113.189			
8,000.00	6,944.16	4,800.00	4,509.99	46.46	43.78	-52.67	-2,728.81	-5,864.31	6,927.87	6,865.57	62.30	111.201			
8,100.00	6,943.08	4,800.00	4,509.99	48.47	43.78	-52.67	-2,728.81	-5,864.31	6,845.65	6,782.91	62.74	109.114			
8,200.00	6,942.01	4,823.03	4,530.64	50.55	44.07	-53.00	-2,738.50	-5,867.51	6,763.83	6,700.30	63.53	106.465			
8,300.00	6,940.93	4,831.25	4,537.99	52.71	44.18	-53.11	-2,741.97	-5,868.65	6,682.52	6,618.30	64.22	104.050			
8,400.00	6,939.85	4,839.52	4,545.39	54.93	44.29	-53.23	-2,745.47	-5,869.81	6,601.71	6,536.71	65.00	101.570			
8,500.00	6,938.77	4,847.84	4,552.84	57.20	44.39	-53.35	-2,749.00	-5,870.99	6,521.41	6,455.56	65.85	99.037			
8,600.00	6,937.69	4,856.23	4,560.34	59.53	44.50	-53.47	-2,752.56	-5,872.17	6,441.64	6,374.86	66.78	96.464			
8,700.00	6,936.61	4,864.67	4,567.88	61.89	44.61	-53.59	-2,756.16	-5,873.36	6,362.43	6,294.64	67.79	93.860			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-24D - OH - OH	Offset Site Error:	0.00 ft
Survey Program:													100-GYRO-NS	Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,800.00	6,935.54	4,873.17	4,575.47	64.30	44.72	-53.71	-2,759.79	-5,874.57	6,283.78	6,214.91	68.87	91.238			
8,900.00	6,934.46	4,881.72	4,583.11	66.74	44.83	-53.83	-2,763.45	-5,875.79	6,205.73	6,135.70	70.03	88.609			
9,000.00	6,933.38	4,900.00	4,599.41	69.21	45.06	-54.09	-2,771.29	-5,878.41	6,128.31	6,056.91	71.40	85.829			
9,100.00	6,932.30	4,900.00	4,599.41	71.71	45.06	-54.09	-2,771.29	-5,878.41	6,051.51	5,978.90	72.60	83.352			
9,200.00	6,931.22	4,912.64	4,610.67	74.23	45.23	-54.27	-2,776.72	-5,880.23	5,975.37	5,901.33	74.05	80.699			
9,300.00	6,930.14	4,927.00	4,623.47	76.78	45.42	-54.48	-2,782.89	-5,882.31	5,899.91	5,824.33	75.59	78.054			
9,400.00	6,929.06	4,941.50	4,636.40	79.34	45.61	-54.69	-2,789.11	-5,884.42	5,825.16	5,747.95	77.20	75.451			
9,500.00	6,927.99	4,956.13	4,649.45	81.93	45.80	-54.90	-2,795.38	-5,886.56	5,751.13	5,672.23	78.90	72.893			
9,600.00	6,926.91	4,970.90	4,662.62	84.53	46.00	-55.11	-2,801.70	-5,888.73	5,677.85	5,597.19	80.67	70.386			
9,700.00	6,925.83	4,985.80	4,675.91	87.14	46.19	-55.32	-2,808.07	-5,890.93	5,605.37	5,522.85	82.51	67.935			
9,800.00	6,924.75	5,004.03	4,692.17	89.77	46.43	-55.58	-2,815.84	-5,893.64	5,533.69	5,449.22	84.47	65.507			
9,900.00	6,923.67	5,071.18	4,752.18	92.41	47.30	-56.55	-2,844.39	-5,903.25	5,462.78	5,375.55	87.23	62.626			
10,000.00	6,922.59	10,000.00	4,751.09	95.07	110.71	-56.53	-2,843.82	-5,902.91	5,392.56	5,266.75	125.81	42.864			
10,100.00	6,921.51	10,100.00	4,834.50	97.73	107.59	-57.89	-2,883.21	-5,914.90	5,323.07	5,194.42	128.65	41.377			
10,200.00	6,920.44	5,259.65	4,921.57	100.40	49.53	-59.30	-2,923.79	-5,926.16	5,254.64	5,158.83	95.81	54.844			
10,300.00	6,919.36	5,303.86	4,961.60	103.08	50.03	-59.95	-2,941.85	-5,931.15	5,187.01	5,088.45	98.56	52.628			
10,400.00	6,918.28	10,400.00	4,937.08	105.77	107.21	-59.55	-2,930.65	-5,928.09	5,120.35	4,984.37	135.97	37.658			
10,500.00	6,917.20	5,366.64	5,018.68	108.47	50.69	-60.88	-2,967.02	-5,938.19	5,054.72	4,950.81	103.91	48.646			
10,600.00	6,916.12	5,397.91	5,047.20	111.18	51.02	-61.34	-2,979.37	-5,941.68	4,990.15	4,883.45	106.70	46.768			
10,700.00	6,915.04	10,700.00	5,031.00	113.89	107.54	-61.08	-2,972.25	-5,939.68	4,926.68	4,783.25	143.43	34.349			
10,800.00	6,913.96	5,417.08	5,064.70	116.61	51.23	-61.62	-2,986.88	-5,943.83	4,864.49	4,752.63	111.85	43.489			
10,900.00	6,912.89	5,426.32	5,073.14	119.33	51.33	-61.76	-2,990.50	-5,944.90	4,803.51	4,688.98	114.53	41.939			
11,000.00	6,911.81	5,435.86	5,081.85	122.06	51.43	-61.90	-2,994.22	-5,946.02	4,743.83	4,626.55	117.29	40.445			
11,100.00	6,910.73	5,445.70	5,090.84	124.79	51.53	-62.05	-2,998.06	-5,947.20	4,685.51	4,565.39	120.12	39.007			
11,200.00	6,909.65	5,455.87	5,100.13	127.53	51.64	-62.20	-3,002.01	-5,948.44	4,628.58	4,505.55	123.03	37.622			
11,300.00	6,908.57	5,466.39	5,109.73	130.27	51.75	-62.35	-3,006.09	-5,949.74	4,573.10	4,447.09	126.01	36.291			
11,400.00	6,907.49	5,477.26	5,119.66	133.02	51.87	-62.51	-3,010.30	-5,951.11	4,519.12	4,390.05	129.07	35.013			
11,500.00	6,906.41	5,488.50	5,129.93	135.77	51.99	-62.68	-3,014.65	-5,952.55	4,466.69	4,334.49	132.20	33.787			
11,600.00	6,905.34	5,500.15	5,140.56	138.52	52.11	-62.85	-3,019.14	-5,954.07	4,415.87	4,280.46	135.41	32.611			
11,700.00	6,904.26	5,510.81	5,150.30	141.28	52.23	-63.01	-3,023.25	-5,955.49	4,366.72	4,228.05	138.67	31.491			
11,800.00	6,903.18	5,521.66	5,160.21	144.04	52.36	-63.17	-3,027.44	-5,956.94	4,319.28	4,177.29	141.99	30.420			
11,900.00	6,902.10	5,532.68	5,170.27	146.80	52.48	-63.33	-3,031.69	-5,958.42	4,273.63	4,128.25	145.38	29.396			
12,000.00	6,901.02	5,543.84	5,180.58	149.57	52.61	-63.50	-3,036.09	-5,960.00	4,229.51	4,077.12	152.39	27.755			
12,100.00	6,899.94	5,555.15	5,191.14	152.34	52.75	-63.67	-3,040.54	-5,961.68	4,186.85	4,030.93	155.92	26.853			
12,200.00	6,898.87	5,566.51	5,201.95	155.11	52.90	-63.84	-3,045.04	-5,963.36	4,146.14	3,986.62	159.51	25.993			
12,300.00	6,897.79	5,577.92	5,212.91	157.89	53.05	-64.01	-3,049.59	-5,965.04	4,107.42	3,944.26	163.16	25.174			
12,400.00	6,896.71	5,589.38	5,224.02	160.66	53.21	-64.19	-3,054.19	-5,966.72	4,070.77	3,903.71	167.06	24.367			
12,500.00	6,895.63	5,600.89	5,235.28	163.44	53.38	-64.37	-3,058.84	-5,968.40	4,036.18	3,865.54	170.64	23.653			
12,600.00	6,894.55	5,612.45	5,246.69	166.22	53.56	-64.56	-3,063.54	-5,970.08	4,003.71	3,828.66	175.06	22.871			
12,700.00	6,893.47	5,624.07	5,258.25	169.00	53.75	-64.75	-3,068.29	-5,971.76	3,973.26	3,793.53	179.73	22.107			
12,800.00	6,892.39	5,635.74	5,270.06	171.79	53.95	-64.95	-3,073.09	-5,973.44	3,944.95	3,762.24	184.71	21.407			
12,900.00	6,891.32	5,647.46	5,282.02	174.57	54.16	-65.16	-3,077.94	-5,975.12	3,918.97	3,731.44	187.53	20.897			
13,000.00	6,890.24	5,659.23	5,294.14	177.36	54.38	-65.38	-3,082.84	-5,976.80	3,895.31	3,703.82	191.49	20.342			
13,100.00	6,889.16	5,671.05	5,306.41	180.15	54.61	-65.61	-3,087.79	-5,978.48	3,874.03	3,678.58	195.46	19.821			
13,200.00	6,888.08	5,682.92	5,318.84	182.94	54.85	-65.85	-3,092.79	-5,980.16	3,855.17	3,655.74	199.43	19.331			
13,300.00	6,887.00	5,694.84	5,331.42	185.74	55.10	-66.10	-3,097.84	-5,981.84	3,838.76	3,635.36	203.39	18.874			
13,400.00	6,885.92	5,706.81	5,344.15	188.53	55.36	-66.36	-3,102.94	-5,983.52	3,824.82	3,617.47	207.35	18.447			
13,500.00	6,884.84	5,718.83	5,357.04	191.32	55.63	-66.63	-3,108.09	-5,985.20	3,813.38	3,602.18	211.20	18.056			
13,600.00	6,883.77	5,730.90	5,370.08	194.12	55.91	-66.91	-3,113.29	-5,986.88	3,804.51	3,589.73	214.78	17.714			
13,700.00	6,882.69	5,743.02	5,383.28	196.92	56.20	-67.20	-3,118.54	-5,988.56	3,798.26	3,579.97	218.29	17.400			
13,800.00	6,881.61	5,755.19	5,396.63	199.72	56.50	-67.50	-3,123.84	-5,990.24	3,794.41	3,572.08	222.33	17.067			
13,894.76	6,880.59	6,035.39	5,636.17	202.37	57.72	-70.78	-3,201.86	-6,038.61	3,793.24	3,567.55	225.70	16.807	CC		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SOUTH #6-24D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
13,900.00	6,880.53	6,035.85	5,636.59	202.52	57.73	-70.79	-3,202.01	-6,038.70	3,793.25	3,567.36	225.88	16.793			
14,000.00	6,879.45	6,044.60	5,644.65	205.32	57.83	-70.92	-3,204.92	-6,040.45	3,794.68	3,565.33	229.35	16.546			
14,100.00	6,878.37	6,053.47	5,652.82	208.12	57.94	-71.05	-3,207.90	-6,042.24	3,798.69	3,565.98	232.71	16.324			
14,200.00	6,877.29	6,062.46	5,661.08	210.92	58.05	-71.18	-3,210.94	-6,044.07	3,805.28	3,569.31	235.97	16.126			
14,300.00	6,876.22	6,071.58	5,669.44	213.73	58.16	-71.32	-3,214.06	-6,045.93	3,814.44	3,575.32	239.12	15.952			
14,400.00	6,875.14	6,100.00	5,695.43	216.53	58.50	-71.74	-3,223.94	-6,051.81	3,826.24	3,583.61	242.63	15.770			
14,500.00	6,874.06	14,500.00	5,731.77	219.34	164.60	-72.32	-3,237.25	-6,059.95	3,840.17	3,517.49	322.68	11.901 ES			
14,600.00	6,872.98	14,600.00	5,751.08	222.15	165.87	-72.63	-3,244.33	-6,064.28	3,856.57	3,528.44	328.13	11.753 SF			
14,700.00	6,871.90	6,229.82	5,814.96	224.95	60.04	-73.65	-3,267.17	-6,078.19	3,875.25	3,621.68	253.58	15.282			
14,800.00	6,870.82	6,242.65	5,826.88	227.76	60.18	-73.84	-3,271.29	-6,080.53	3,896.19	3,640.00	256.19	15.208			
14,900.00	6,869.75	6,254.54	5,837.95	230.57	60.30	-74.02	-3,275.11	-6,082.62	3,919.51	3,660.86	258.65	15.154			
15,000.00	6,868.67	6,265.60	5,848.25	233.38	60.42	-74.18	-3,278.66	-6,084.49	3,945.18	3,684.24	260.94	15.119			
15,100.00	6,867.59	6,275.90	5,857.85	236.19	60.52	-74.34	-3,281.97	-6,086.16	3,973.15	3,710.09	263.06	15.104			
15,200.00	6,866.51	6,300.00	5,880.38	239.00	60.78	-74.69	-3,289.71	-6,089.86	4,003.43	3,738.05	265.39	15.085			
15,300.00	6,865.43	6,300.00	5,880.38	241.81	60.78	-74.69	-3,289.71	-6,089.86	4,035.85	3,768.88	266.96	15.118			
15,400.00	6,864.35	6,300.00	5,880.38	244.63	60.78	-74.69	-3,289.71	-6,089.86	4,070.46	3,802.07	268.39	15.166			
15,500.00	6,863.27	6,314.75	5,894.18	247.44	60.92	-74.91	-3,294.46	-6,092.02	4,107.18	3,837.13	270.05	15.209			
15,600.00	6,862.20	6,325.60	5,904.32	250.25	61.02	-75.07	-3,297.96	-6,093.61	4,145.95	3,874.47	271.47	15.272			
15,618.10	6,862.00	6,327.56	5,906.16	250.76	61.04	-75.10	-3,298.60	-6,093.90	4,153.18	3,881.46	271.72	15.285			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC #31-5D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	23.70	2,271.07	997.04	2,480.36						
100.00	100.00	79.34	79.34	3.28	3.28	23.70	2,271.09	997.11	2,480.34	2,473.77	6.57	377.577			
200.00	200.00	179.72	179.72	3.34	3.33	23.71	2,271.13	997.30	2,480.46	2,473.79	6.66	372.234			
300.00	299.98	278.61	278.61	3.44	3.42	-28.22	2,271.19	997.43	2,479.02	2,472.15	6.87	360.986			
400.00	399.84	377.01	377.01	3.61	3.57	-28.31	2,271.34	997.48	2,474.58	2,467.41	7.17	345.087			
500.00	499.45	475.44	475.44	3.81	3.75	-28.49	2,271.63	997.36	2,467.12	2,459.56	7.56	326.173			
600.00	598.70	571.73	571.73	4.06	3.97	-28.72	2,272.02	997.18	2,456.70	2,448.67	8.03	305.964			
700.00	697.47	671.68	671.68	4.35	4.22	-29.05	2,272.57	996.84	2,443.33	2,434.76	8.57	285.091			
800.00	795.62	773.76	773.75	4.66	4.51	-29.45	2,273.06	996.33	2,426.85	2,417.68	9.18	264.498			
900.00	893.06	871.24	871.23	5.01	4.81	-29.93	2,273.44	995.78	2,407.32	2,397.51	9.82	245.236			
961.44	952.51	929.69	929.68	5.25	4.99	-30.25	2,273.66	995.53	2,393.91	2,383.68	10.23	234.033			
1,000.00	989.71	966.18	966.17	5.40	5.11	-30.38	2,273.80	995.38	2,385.17	2,374.68	10.49	227.320			
1,100.00	1,086.20	1,191.12	1,191.00	5.81	5.89	-31.08	2,268.72	995.63	2,360.92	2,349.29	11.63	203.035			
1,200.00	1,182.69	1,453.40	1,451.94	6.24	7.01	-31.79	2,242.79	994.24	2,328.17	2,315.23	12.94	179.889			
1,300.00	1,279.18	1,736.91	1,730.94	6.69	8.52	-32.38	2,193.13	993.72	2,290.07	2,275.71	14.37	159.392			
1,400.00	1,375.67	1,877.57	1,867.52	7.15	9.41	-32.57	2,159.55	994.89	2,246.54	2,231.22	15.32	146.681			
1,500.00	1,472.15	1,988.66	1,974.92	7.62	10.13	-32.68	2,131.23	996.64	2,202.00	2,185.82	16.18	136.074			
1,600.00	1,568.64	2,144.73	2,124.84	8.10	11.20	-32.80	2,087.95	999.19	2,155.50	2,138.29	17.21	125.259			
1,700.00	1,665.13	2,283.88	2,257.53	8.59	12.20	-32.92	2,046.08	1,000.46	2,106.88	2,088.71	18.17	115.962			
1,800.00	1,761.62	2,475.54	2,437.28	9.08	13.74	-33.04	1,979.67	999.83	2,052.79	2,033.53	19.27	106.551			
1,900.00	1,858.11	2,720.53	2,661.70	9.58	16.03	-33.00	1,881.66	1,000.29	1,996.02	1,975.53	20.48	97.452			
2,000.00	1,954.60	2,800.66	2,733.59	10.08	16.87	-32.95	1,846.30	1,000.12	1,935.22	1,913.92	21.29	90.896			
2,100.00	2,051.09	2,837.85	2,767.18	10.59	17.22	-32.94	1,830.33	999.91	1,875.30	1,853.28	22.02	85.183			
2,200.00	2,147.57	2,876.67	2,802.62	11.09	17.58	-32.93	1,814.50	999.75	1,817.21	1,794.45	22.77	79.820			
2,300.00	2,244.06	2,300.00	2,289.13	11.61	12.44	-32.93	1,776.76	999.34	1,759.79	1,739.78	20.01	87.953			
2,400.00	2,340.55	3,078.35	2,988.72	12.12	19.44	-32.91	1,732.19	998.66	1,700.86	1,676.38	24.48	69.482			
2,500.00	2,437.04	3,137.54	3,040.65	12.64	19.97	-32.91	1,707.80	998.22	1,642.36	1,617.07	25.30	64.921			
2,600.00	2,533.53	3,200.00	3,098.11	13.15	20.52	-32.95	1,683.34	997.25	1,585.21	1,559.08	26.13	60.670			
2,700.00	2,630.02	3,289.08	3,180.27	13.67	21.26	-33.03	1,648.97	995.40	1,528.47	1,501.52	26.96	56.702			
2,800.00	2,726.50	3,372.82	3,257.31	14.19	21.96	-33.13	1,616.22	993.26	1,471.13	1,443.34	27.78	52.952			
2,900.00	2,822.99	3,437.63	3,317.07	14.72	22.49	-33.24	1,591.23	991.24	1,414.12	1,385.49	28.63	49.395			
3,000.00	2,919.48	3,500.00	3,375.00	15.24	22.99	-33.34	1,568.16	989.75	1,358.55	1,329.06	29.49	46.065			
3,100.00	3,015.97	3,577.13	3,448.85	15.76	23.57	-33.46	1,540.14	988.60	1,303.85	1,273.50	30.35	42.963			
3,200.00	3,112.46	3,659.76	3,523.75	16.29	24.20	-33.55	1,509.91	987.99	1,249.18	1,217.97	31.20	40.032			
3,300.00	3,208.95	3,748.84	3,606.60	16.81	24.89	-33.65	1,477.18	987.63	1,194.49	1,162.44	32.05	37.268			
3,400.00	3,305.44	3,843.82	3,694.49	17.34	25.64	-33.69	1,441.18	988.09	1,139.08	1,106.20	32.88	34.639			
3,500.00	3,401.92	3,939.14	3,782.28	17.87	26.42	-33.71	1,404.07	988.57	1,082.81	1,049.10	33.71	32.123			
3,600.00	3,498.41	4,034.37	3,869.41	18.40	27.23	-33.66	1,365.64	989.56	1,025.51	990.99	34.52	29.705			
3,700.00	3,594.90	4,120.65	3,948.08	18.93	27.98	-33.66	1,330.22	989.58	967.31	931.95	35.37	27.349			
3,800.00	3,691.39	4,191.43	4,012.93	19.46	28.58	-33.74	1,301.87	988.71	909.59	873.27	36.31	25.048			
3,900.00	3,787.88	4,279.07	4,093.44	19.99	29.31	-33.92	1,267.29	986.96	852.16	815.05	37.11	22.962			
4,000.00	3,884.37	4,359.99	4,167.62	20.52	29.99	-34.11	1,235.00	985.22	794.31	756.35	37.97	20.921			
4,100.00	3,980.85	4,441.40	4,242.36	21.05	30.67	-34.35	1,202.78	983.34	736.69	697.88	38.81	18.981			
4,200.00	4,077.34	4,532.19	4,325.57	21.58	31.44	-34.68	1,166.54	981.00	678.75	639.24	39.51	17.178			
4,300.00	4,173.83	4,626.47	4,411.06	22.11	32.27	-35.09	1,126.92	977.81	618.75	578.66	40.09	15.433			
4,390.25	4,260.91	4,695.82	4,473.82	22.59	32.91	-35.48	1,097.53	975.23	564.33	523.44	40.88	13.804			
4,400.00	4,270.32	4,703.35	4,480.64	22.64	32.98	-35.44	1,094.36	974.95	558.48	517.51	40.97	13.632			
4,500.00	4,367.33	4,775.13	4,546.02	23.16	33.60	-35.04	1,064.86	972.03	500.54	458.53	42.01	11.915			
4,600.00	4,465.13	4,849.24	4,614.11	23.65	34.20	-34.64	1,035.80	968.89	446.56	403.45	43.10	10.361			
4,700.00	4,563.60	4,927.48	4,686.65	24.12	34.81	-34.08	1,006.59	966.33	396.95	352.74	44.20	8.980			
4,800.00	4,662.61	5,011.06	4,764.57	24.56	35.42	-33.22	976.43	964.42	351.29	306.03	45.27	7.761			
4,900.00	4,762.05	5,096.39	4,844.58	24.98	36.01	-31.98	946.80	962.91	309.70	263.30	46.41	6.674			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC #31-5D - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-GYRO-NS														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	5,179.04	4,922.75	25.38	36.53	-30.33	920.00	962.08	273.28	225.48	47.81	5.717		
5,100.00	4,961.73	5,261.66	5,001.92	25.76	36.98	-28.24	896.36	962.06	243.78	194.41	49.37	4.938		
5,151.69	5,013.42	5,305.44	5,044.35	25.95	37.20	24.82	885.63	962.09	231.78	181.61	50.17	4.620		
5,200.00	5,061.73	5,348.83	5,086.66	26.13	37.38	25.88	875.97	962.08	222.01	171.17	50.84	4.367		
5,300.00	5,161.73	5,440.26	5,176.33	26.49	37.74	28.03	858.16	961.84	204.44	152.25	52.19	3.917		
5,400.00	5,261.73	5,533.95	5,268.79	26.86	38.07	30.01	843.05	961.17	189.95	136.51	53.44	3.554		
5,500.00	5,361.73	5,629.75	5,363.70	27.23	38.38	31.88	830.07	960.34	177.86	123.24	54.62	3.256		
5,600.00	5,461.73	5,727.11	5,460.37	27.60	38.68	33.63	818.55	959.16	167.23	111.49	55.74	3.000		
5,700.00	5,561.73	5,824.08	5,556.83	27.97	38.97	35.11	808.86	957.59	158.06	101.25	56.82	2.782		
5,800.00	5,661.73	5,921.14	5,653.59	28.35	39.25	36.18	801.42	955.81	150.76	92.95	57.81	2.608		
5,900.00	5,761.73	6,019.88	5,752.12	28.72	39.53	36.92	795.39	953.71	144.58	85.88	58.70	2.463		
6,000.00	5,861.73	6,118.49	5,850.58	29.10	39.80	37.39	790.46	951.42	139.19	79.65	59.54	2.338		
6,100.00	5,961.73	6,216.54	5,948.54	29.48	40.07	37.49	786.95	949.03	134.87	74.55	60.32	2.236		
6,200.00	6,061.73	6,313.45	6,045.40	29.86	40.33	36.80	786.06	946.33	132.46	71.52	60.94	2.174		
6,258.35	6,120.08	6,370.15	6,102.08	30.09	40.49	36.19	786.61	944.99	132.09	70.84	61.25	2.157 CC		
6,300.00	6,161.73	6,410.98	6,142.90	30.25	40.60	35.76	787.32	944.30	132.26	70.79	61.47	2.152		
6,400.00	6,261.73	6,511.61	6,243.50	30.63	40.88	34.77	789.01	942.68	132.71	70.69	62.02	2.140		
6,451.69	6,313.42	6,564.21	6,296.09	30.83	41.02	34.29	789.57	941.72	132.62	70.30	62.33	2.128		
6,457.97	6,319.70	6,570.60	6,302.48	30.85	41.04	126.71	789.61	941.59	132.61	70.24	62.36	2.126 ES, SF		
6,500.00	6,361.68	6,612.69	6,344.56	31.01	41.16	126.92	789.80	940.73	133.35	70.64	62.71	2.126		
6,550.00	6,411.34	6,660.73	6,392.59	31.20	41.29	128.12	790.33	939.93	136.84	73.53	63.31	2.161		
6,600.00	6,460.39	6,708.68	6,440.53	31.38	41.43	130.18	791.38	939.40	143.53	79.43	64.09	2.239		
6,650.00	6,508.54	6,758.33	6,490.17	31.58	41.57	133.06	792.32	938.88	153.03	87.99	65.04	2.353		
6,700.00	6,555.48	6,806.89	6,538.71	31.78	41.70	136.38	792.75	938.26	165.37	99.30	66.07	2.503		
6,750.00	6,600.93	6,852.32	6,584.14	31.98	41.83	139.66	792.86	937.77	181.17	114.05	67.12	2.699		
6,800.00	6,644.61	6,896.04	6,627.86	32.20	41.96	142.77	792.77	937.47	200.76	132.66	68.11	2.948		
6,850.00	6,686.25	6,937.69	6,669.51	32.44	42.08	145.48	792.69	937.23	224.20	155.21	68.98	3.250		
6,900.00	6,725.58	6,977.23	6,709.05	32.68	42.19	147.65	792.84	936.89	251.33	181.60	69.73	3.604		
6,950.00	6,762.38	7,014.64	6,746.45	32.96	42.30	149.30	793.19	936.45	281.91	211.57	70.34	4.008		
7,000.00	6,796.41	7,049.81	6,781.63	33.25	42.40	150.45	793.63	935.91	315.62	244.78	70.84	4.455		
7,050.00	6,827.46	7,082.24	6,814.05	33.58	42.50	151.05	794.13	935.30	352.21	280.96	71.25	4.943		
7,100.00	6,855.34	7,111.62	6,843.41	33.93	42.58	151.07	794.65	934.67	391.38	319.79	71.59	5.467		
7,150.00	6,879.88	7,137.68	6,869.46	34.33	42.66	150.41	795.16	934.05	432.88	361.02	71.86	6.024		
7,200.00	6,900.93	7,160.38	6,892.14	34.76	42.72	148.89	795.65	933.47	476.41	404.33	72.09	6.609		
7,250.00	6,918.36	7,179.53	6,911.29	35.23	42.78	146.20	796.08	932.94	521.68	449.42	72.27	7.219		
7,300.00	6,932.05	7,195.01	6,926.75	35.74	42.83	141.70	796.46	932.50	568.40	495.98	72.41	7.849		
7,350.00	6,941.94	7,206.67	6,938.41	36.29	42.86	134.17	796.75	932.16	616.25	543.71	72.53	8.496		
7,400.00	6,947.94	7,213.76	6,945.48	36.87	42.88	121.03	796.93	931.95	664.93	592.30	72.63	9.155		
7,450.00	6,950.04	7,217.25	6,948.97	37.47	42.89	99.36	797.02	931.84	714.12	641.41	72.70	9.822		
7,458.56	6,950.00	7,217.45	6,949.18	37.58	42.89	94.75	797.03	931.84	722.57	649.85	72.72	9.937		
7,500.00	6,949.56	7,218.18	6,949.91	38.11	42.89	95.11	797.05	931.82	763.51	690.75	72.77	10.493		
7,600.00	6,948.48	7,219.94	6,951.66	39.51	42.90	95.98	797.09	931.76	862.51	789.64	72.86	11.837		
7,700.00	6,947.40	7,221.70	6,953.42	41.06	42.90	96.85	797.14	931.71	961.71	888.76	72.94	13.184		
7,800.00	6,946.32	7,223.45	6,955.17	42.74	42.91	97.71	797.18	931.66	1,061.05	988.05	73.01	14.534		
7,900.00	6,945.24	7,225.21	6,956.93	44.55	42.91	98.57	797.23	931.61	1,160.51	1,087.45	73.06	15.884		
8,000.00	6,944.16	7,226.97	6,958.69	46.46	42.92	99.43	797.28	931.56	1,260.05	1,186.94	73.11	17.235		
8,100.00	6,943.08	7,228.73	6,960.44	48.47	42.92	100.28	797.33	931.50	1,359.66	1,286.51	73.15	18.587		
8,200.00	6,942.01	7,230.49	6,962.20	50.55	42.93	101.12	797.37	931.45	1,459.32	1,386.12	73.19	19.938		
8,300.00	6,940.93	7,232.25	6,963.96	52.71	42.93	101.96	797.42	931.40	1,559.01	1,485.79	73.23	21.290		
8,400.00	6,939.85	7,234.01	6,965.72	54.93	42.94	102.80	797.47	931.35	1,658.75	1,585.49	73.26	22.641		
8,500.00	6,938.77	7,235.77	6,967.48	57.20	42.95	103.62	797.52	931.30	1,758.51	1,685.22	73.30	23.992		
8,600.00	6,937.69	7,237.53	6,969.24	59.53	42.95	104.45	797.57	931.24	1,858.30	1,784.97	73.33	25.342		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC #31-5D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,700.00	6,936.61	7,239.30	6,971.00	61.89	42.96	105.26	797.61	931.19	1,958.10	1,884.74	73.36	26.692			
8,800.00	6,935.54	7,241.06	6,972.77	64.30	42.96	106.07	797.66	931.14	2,057.93	1,984.54	73.39	28.041			
8,900.00	6,934.46	7,242.82	6,974.53	66.74	42.97	106.87	797.71	931.09	2,157.76	2,084.34	73.42	29.389			
9,000.00	6,933.38	7,244.59	6,976.29	69.21	42.97	107.67	797.76	931.03	2,257.62	2,184.16	73.45	30.736			
9,100.00	6,932.30	7,246.35	6,978.06	71.71	42.98	108.46	797.81	930.98	2,357.48	2,283.99	73.48	32.081			
9,200.00	6,931.22	7,248.12	6,979.82	74.23	42.98	109.24	797.86	930.93	2,457.35	2,383.83	73.52	33.426			
9,300.00	6,930.14	7,249.89	6,981.58	76.78	42.99	110.01	797.91	930.88	2,557.23	2,483.68	73.55	34.769			
9,400.00	6,929.06	7,251.65	6,983.35	79.34	42.99	110.77	797.96	930.82	2,657.12	2,583.54	73.58	36.111			
9,500.00	6,927.99	7,253.42	6,985.12	81.93	43.00	111.53	798.01	930.77	2,757.02	2,683.40	73.61	37.452			
9,600.00	6,926.91	7,255.19	6,986.88	84.53	43.00	112.27	798.06	930.72	2,856.92	2,783.27	73.65	38.791			
9,700.00	6,925.83	7,256.96	6,988.65	87.14	43.01	113.01	798.12	930.67	2,956.83	2,883.14	73.68	40.129			
9,800.00	6,924.75	7,258.73	6,990.42	89.77	43.01	113.74	798.17	930.61	3,056.74	2,983.02	73.72	41.465			
9,900.00	6,923.67	7,260.50	6,992.19	92.41	43.02	114.47	798.22	930.56	3,156.66	3,082.90	73.76	42.799			
10,000.00	6,922.59	7,262.27	6,993.96	95.07	43.02	115.18	798.27	930.51	3,256.58	3,182.79	73.79	44.132			
10,100.00	6,921.51	7,264.04	6,995.73	97.73	43.03	115.89	798.32	930.45	3,356.50	3,282.67	73.83	45.462			
10,200.00	6,920.44	7,265.81	6,997.50	100.40	43.03	116.58	798.37	930.40	3,456.43	3,382.56	73.87	46.791			
10,300.00	6,919.36	7,267.59	6,999.27	103.08	43.04	117.27	798.43	930.35	3,556.36	3,482.45	73.91	48.118			
10,400.00	6,918.28	7,269.36	7,001.04	105.77	43.04	117.95	798.48	930.30	3,656.30	3,582.35	73.95	49.444			
10,500.00	6,917.20	7,271.13	7,002.81	108.47	43.05	118.62	798.53	930.24	3,756.24	3,682.24	73.99	50.767			
10,600.00	6,916.12	7,272.91	7,004.59	111.18	43.05	119.28	798.59	930.19	3,856.17	3,782.14	74.03	52.087			
10,700.00	6,915.04	7,274.68	7,006.36	113.89	43.06	119.93	798.64	930.14	3,956.12	3,882.04	74.08	53.406			
10,800.00	6,913.96	7,276.46	7,008.13	116.61	43.07	120.57	798.69	930.08	4,056.06	3,981.94	74.12	54.723			
10,900.00	6,912.89	7,278.23	7,009.91	119.33	43.07	121.21	798.75	930.03	4,156.01	4,081.84	74.17	56.037			
11,000.00	6,911.81	7,280.01	7,011.68	122.06	43.08	121.83	798.80	929.98	4,255.95	4,181.74	74.21	57.349			
11,100.00	6,910.73	7,281.79	7,013.46	124.79	43.08	122.45	798.86	929.92	4,355.90	4,281.65	74.26	58.659			
11,200.00	6,909.65	7,283.57	7,015.24	127.53	43.09	123.05	798.91	929.87	4,455.85	4,381.55	74.31	59.966			
11,300.00	6,908.57	7,285.35	7,017.01	130.27	43.09	123.65	798.97	929.82	4,555.81	4,481.45	74.35	61.271			
11,400.00	6,907.49	7,287.13	7,018.79	133.02	43.10	124.24	799.02	929.76	4,655.76	4,581.36	74.40	62.573			
11,500.00	6,906.41	7,288.91	7,020.57	135.77	43.10	124.83	799.08	929.71	4,755.72	4,681.26	74.46	63.873			
11,600.00	6,905.34	7,290.69	7,022.35	138.52	43.11	125.40	799.13	929.66	4,855.67	4,781.16	74.51	65.170			
11,700.00	6,904.26	7,292.47	7,024.13	141.28	43.11	125.96	799.19	929.60	4,955.63	4,881.07	74.56	66.465			
11,800.00	6,903.18	7,294.25	7,025.91	144.04	43.12	126.52	799.24	929.55	5,055.59	4,980.97	74.61	67.757			
11,900.00	6,902.10	7,296.03	7,027.69	146.80	43.12	127.07	799.30	929.50	5,155.55	5,080.88	74.67	69.046			
12,000.00	6,901.02	7,297.81	7,029.47	149.57	43.13	127.61	799.36	929.44	5,255.51	5,180.78	74.72	70.332			
12,100.00	6,899.94	7,299.60	7,031.25	152.34	43.13	128.14	799.41	929.39	5,355.47	5,280.69	74.78	71.616			
12,200.00	6,898.87	7,301.38	7,033.03	155.11	43.15	128.67	799.46	929.34	5,455.43	5,380.59	74.84	72.894			
12,300.00	6,897.79	7,303.16	7,034.81	157.89	43.16	129.19	799.51	929.29	5,555.39	5,480.49	74.90	74.169			
12,400.00	6,896.71	7,315.65	7,047.29	160.66	43.18	132.57	799.56	929.24	5,655.35	5,580.39	74.97	75.440			
12,500.00	6,895.63	7,322.14	7,053.78	163.44	43.20	134.19	800.15	928.68	5,755.31	5,680.28	75.03	76.707			
12,600.00	6,894.55	7,329.18	7,060.81	166.22	43.22	135.84	800.38	928.45	5,855.27	5,780.17	75.10	77.970			
12,700.00	6,893.47	7,336.84	7,068.45	169.00	43.24	137.53	800.63	928.19	5,955.23	5,880.06	75.16	79.229			
12,800.00	6,892.39	7,345.19	7,076.79	171.79	43.27	139.24	800.92	927.90	6,055.19	5,979.95	75.23	80.484			
12,900.00	6,891.32	7,354.34	7,085.93	174.57	43.30	140.98	801.23	927.57	6,155.14	6,079.83	75.31	81.734			
13,000.00	6,890.24	7,363.00	7,095.18	177.36	60.05	137.04	800.57	928.23	6,255.08	6,162.85	92.23	67.821			
13,100.00	6,889.16	7,371.00	7,104.43	180.15	60.34	137.48	800.64	928.17	6,355.04	6,262.45	92.59	68.639			
13,200.00	6,888.08	7,379.00	7,113.68	182.94	60.64	137.93	800.71	928.10	6,455.00	6,362.06	92.95	69.449			
13,300.00	6,887.00	7,387.00	7,122.93	185.74	60.94	138.36	800.78	928.03	6,554.96	6,461.66	93.31	70.252			
13,400.00	6,885.92	7,395.00	7,132.18	188.53	61.24	138.79	800.85	927.96	6,654.93	6,561.26	93.67	71.049			
13,500.00	6,884.84	7,403.00	7,141.43	191.32	61.53	139.20	800.92	927.89	6,754.89	6,660.86	94.03	71.838			
13,600.00	6,883.77	7,411.00	7,150.68	194.12	61.83	139.61	800.98	927.82	6,854.86	6,760.46	94.39	72.621			
13,700.00	6,882.69	7,419.00	7,159.93	196.92	62.13	140.02	801.05	927.75	6,954.82	6,860.07	94.76	73.397			
13,800.00	6,881.61	7,427.00	7,169.18	199.72	62.42	140.41	801.12	927.68	7,054.79	6,959.67	95.12	74.167			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC #31-5D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
13,900.00	6,880.53	13,900.00	7,084.94	202.52	62.72	140.80	801.19	927.61	7,154.75	7,059.27	95.49	74.930			
14,000.00	6,879.45	7,350.00	7,081.60	205.32	43.28	140.17	801.08	927.72	7,254.72	7,178.67	76.05	95.389			
14,100.00	6,878.37	7,350.00	7,081.60	208.12	43.28	140.17	801.08	927.72	7,354.69	7,278.56	76.13	96.610			
14,200.00	6,877.29	7,350.00	7,081.60	210.92	43.28	140.17	801.08	927.72	7,454.66	7,378.45	76.20	97.828			
14,300.00	6,876.22	7,350.00	7,081.60	213.73	43.28	140.17	801.08	927.72	7,554.63	7,478.35	76.28	99.043			
14,400.00	6,875.14	7,350.00	7,081.60	216.53	43.28	140.17	801.08	927.72	7,654.60	7,578.24	76.35	100.254			
14,500.00	6,874.06	7,350.00	7,081.60	219.34	43.28	140.17	801.08	927.72	7,754.57	7,678.14	76.43	101.461			
14,600.00	6,872.98	7,350.00	7,081.60	222.15	43.28	140.17	801.08	927.72	7,854.54	7,778.03	76.51	102.665			
14,700.00	6,871.90	7,350.00	7,081.60	224.95	43.28	140.17	801.08	927.72	7,954.51	7,877.93	76.58	103.866			
14,800.00	6,870.82	7,350.00	7,081.60	227.76	43.28	140.17	801.08	927.72	8,054.49	7,977.82	76.66	105.063			
14,900.00	6,869.75	7,350.00	7,081.60	230.57	43.28	140.17	801.08	927.72	8,154.46	8,077.72	76.74	106.256			
15,000.00	6,868.67	7,350.00	7,081.60	233.38	43.28	140.17	801.08	927.72	8,254.43	8,177.61	76.82	107.446			
15,100.00	6,867.59	7,350.00	7,081.60	236.19	43.28	140.17	801.08	927.72	8,354.41	8,277.50	76.91	108.633			
15,200.00	6,866.51	7,350.00	7,081.60	239.00	43.28	140.17	801.08	927.72	8,454.39	8,377.40	76.99	109.815			
15,300.00	6,865.43	7,350.00	7,081.60	241.81	43.28	140.17	801.08	927.72	8,554.36	8,477.29	77.07	110.994			
15,400.00	6,864.35	7,350.00	7,081.60	244.63	43.28	140.17	801.08	927.72	8,654.34	8,577.18	77.15	112.170			
15,500.00	6,863.27	7,350.00	7,081.60	247.44	43.28	140.17	801.08	927.72	8,754.32	8,677.08	77.24	113.341			
15,600.00	6,862.20	7,350.00	7,081.60	250.25	43.28	140.17	801.08	927.72	8,854.29	8,776.97	77.32	114.509			
15,618.10	6,862.00	7,350.00	7,081.60	250.76	43.28	140.17	801.08	927.72	8,872.39	8,795.05	77.34	114.720			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	2,169.61	2,069.08	3.28	27.54	93.87	-348.54	5,150.19	5,580.00					
100.00	100.00	2,227.97	2,121.40	3.28	28.86	93.71	-332.62	5,129.80	5,542.22	5,520.81	21.40	258.936		
200.00	200.00	2,267.61	2,156.89	3.34	29.76	93.59	-321.14	5,116.41	5,505.30	5,483.32	21.98	250.435		
300.00	299.98	2,319.57	2,203.39	3.44	30.91	42.08	-305.32	5,099.44	5,468.09	5,445.30	22.78	240.009		
400.00	399.84	2,565.17	2,424.85	3.61	36.35	42.10	-241.65	5,014.65	5,427.51	5,401.51	26.01	208.693		
500.00	499.45	2,846.73	2,673.64	3.81	43.64	42.08	-160.21	4,911.26	5,382.86	5,352.51	30.36	177.321		
600.00	598.70	2,900.00	2,719.57	4.06	45.22	42.69	-142.47	4,890.93	5,333.41	5,301.89	31.53	169.171		
700.00	697.47	2,943.12	2,756.92	4.35	46.40	43.38	-128.25	4,874.72	5,282.43	5,249.93	32.50	162.550		
800.00	795.62	3,000.00	2,806.89	4.66	47.96	44.11	-110.49	4,854.19	5,230.53	5,196.82	33.71	155.140		
900.00	893.06	3,000.00	2,806.89	5.01	47.96	45.00	-110.49	4,854.19	5,176.95	5,142.95	34.00	152.266		
961.44	952.51	3,000.00	2,806.89	5.25	47.96	45.57	-110.49	4,854.19	5,143.68	5,109.50	34.18	150.471		
1,000.00	989.71	3,035.14	2,838.11	5.40	48.78	45.53	-99.99	4,841.93	5,122.54	5,087.74	34.80	147.199		
1,100.00	1,086.20	3,072.14	2,871.17	5.81	49.63	45.49	-89.23	4,829.30	5,068.52	5,032.89	35.63	142.238		
1,200.00	1,182.69	3,212.49	2,996.94	6.24	52.84	45.35	-49.25	4,781.53	5,014.88	4,976.98	37.90	132.331		
1,300.00	1,279.18	3,266.75	3,045.56	6.69	54.08	45.30	-34.19	4,762.71	4,960.57	4,921.59	38.98	127.261		
1,400.00	1,375.67	3,300.00	3,075.50	7.15	54.84	45.27	-25.36	4,751.28	4,906.83	4,867.03	39.81	123.272		
1,500.00	1,472.15	3,338.28	3,110.21	7.62	55.59	45.25	-15.62	4,738.42	4,853.93	4,813.29	40.63	119.458		
1,600.00	1,568.64	3,366.28	3,135.81	8.10	56.14	45.24	-8.81	4,729.34	4,802.06	4,760.70	41.36	116.096		
1,700.00	1,665.13	3,400.00	3,166.86	8.59	56.80	45.22	-0.97	4,718.79	4,751.24	4,709.07	42.17	112.678		
1,800.00	1,761.62	3,516.29	3,273.94	9.08	58.88	45.18	26.29	4,682.53	4,700.61	4,656.83	43.78	107.381		
1,900.00	1,858.11	3,581.35	3,333.64	9.58	60.07	45.15	42.35	4,662.25	4,649.84	4,604.92	44.93	103.499		
2,000.00	1,954.60	3,639.16	3,386.74	10.08	61.09	45.11	56.75	4,644.53	4,599.52	4,553.54	45.99	100.015		
2,100.00	2,051.09	3,700.00	3,443.03	10.59	62.14	45.10	70.71	4,626.15	4,549.80	4,502.73	47.07	96.670		
2,200.00	2,147.57	3,735.30	3,475.90	11.09	62.67	45.09	78.31	4,615.72	4,500.79	4,452.94	47.85	94.066		
2,300.00	2,244.06	4,270.00	3,962.27	11.61	73.73	44.82	207.04	4,437.63	4,448.92	4,394.92	54.00	82.384		
2,400.00	2,340.55	4,300.00	3,988.41	12.12	74.57	44.77	216.71	4,426.52	4,392.23	4,337.18	55.05	79.784		
2,500.00	2,437.04	4,339.19	4,022.73	12.64	75.54	44.69	229.32	4,412.41	4,336.42	4,280.20	56.22	77.135		
2,600.00	2,533.53	4,366.58	4,046.93	13.15	76.22	44.65	237.93	4,402.92	4,281.74	4,224.52	57.22	74.832		
2,700.00	2,630.02	4,400.00	4,076.71	13.67	77.06	44.59	248.21	4,391.75	4,228.18	4,169.87	58.31	72.509		
2,800.00	2,726.50	4,429.77	4,103.43	14.19	77.66	44.54	257.11	4,382.12	4,175.69	4,116.41	59.28	70.443		
2,900.00	2,822.99	4,467.34	4,137.41	14.72	78.42	44.49	267.93	4,370.28	4,124.19	4,063.85	60.34	68.349		
3,000.00	2,919.48	4,523.71	4,188.80	15.24	79.53	44.42	283.42	4,353.07	4,073.68	4,012.07	61.61	66.122		
3,100.00	3,015.97	4,641.60	4,296.05	15.76	81.78	44.28	315.99	4,316.54	4,022.76	3,959.20	63.55	63.298		
3,200.00	3,112.46	4,768.26	4,411.33	16.29	84.27	44.13	350.14	4,276.70	3,971.68	3,906.11	65.58	60.565		
3,300.00	3,208.95	4,861.25	4,495.73	16.81	86.15	44.03	374.73	4,246.38	3,919.48	3,852.23	67.25	58.286		
3,400.00	3,305.44	5,136.41	4,742.33	17.34	92.50	43.64	450.93	4,151.14	3,865.39	3,794.21	71.19	54.298		
3,500.00	3,401.92	5,274.07	4,863.62	17.87	96.17	43.40	490.69	4,099.58	3,808.63	3,734.89	73.74	51.651		
3,600.00	3,498.41	5,350.50	4,930.87	18.40	98.23	43.27	512.20	4,070.32	3,751.23	3,675.76	75.47	49.702		
3,700.00	3,594.90	5,419.13	4,991.64	18.93	100.06	43.18	530.51	4,044.24	3,694.22	3,617.14	77.08	47.930		
3,800.00	3,691.39	5,524.87	5,085.52	19.46	102.83	43.04	557.73	4,003.89	3,637.21	3,558.20	79.02	46.031		
3,900.00	3,787.88	5,634.27	5,182.69	19.99	105.69	42.95	583.19	3,960.59	3,578.97	3,498.14	80.83	44.275		
4,000.00	3,884.37	5,683.01	5,226.39	20.52	106.92	42.94	593.12	3,941.42	3,521.29	3,439.25	82.04	42.922		
4,100.00	3,980.85	5,724.54	5,263.92	21.05	107.89	42.94	600.88	3,925.40	3,464.43	3,381.30	83.13	41.674		
4,200.00	4,077.34	5,762.57	5,298.53	21.58	108.71	42.95	607.64	3,911.18	3,408.63	3,324.46	84.17	40.499		
4,300.00	4,173.83	6,000.00	5,513.32	22.11	114.29	43.00	650.55	3,819.71	3,352.40	3,266.26	86.15	38.916		
4,390.25	4,260.91	6,034.62	5,544.25	22.59	115.10	43.00	656.97	3,805.53	3,299.35	3,212.24	87.12	37.873		
4,400.00	4,270.32	6,037.11	5,546.49	22.64	115.16	42.91	657.40	3,804.54	3,293.71	3,206.49	87.22	37.764		
4,500.00	4,367.33	6,063.27	5,570.16	23.16	115.77	42.00	661.75	3,794.31	3,237.73	3,149.45	88.27	36.679		
4,600.00	4,465.13	6,100.00	5,603.82	23.65	116.64	41.18	667.18	3,780.63	3,185.46	3,096.06	89.40	35.632		
4,700.00	4,563.60	6,100.00	5,603.82	24.12	116.64	40.46	667.18	3,780.63	3,137.13	3,046.68	90.46	34.681		
4,800.00	4,662.61	6,142.28	5,643.09	24.56	117.29	39.80	672.64	3,765.98	3,092.68	3,001.14	91.54	33.786		
4,900.00	4,762.05	6,200.00	5,697.61	24.98	118.19	39.19	678.97	3,748.11	3,053.25	2,960.60	92.64	32.957		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Northridge #11-4D - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-GYRO-NS														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	6,200.00	5,697.61	25.38	118.19	38.70	678.97	3,748.11	3,017.23	2,923.42	93.80	32.165		
5,100.00	4,961.73	6,200.00	5,697.61	25.76	118.19	38.30	678.97	3,748.11	2,986.72	2,891.77	94.95	31.455		
5,151.69	5,013.42	6,244.53	5,740.27	25.95	118.59	89.95	682.56	3,735.88	2,972.20	2,876.76	95.44	31.141		
5,200.00	5,061.73	6,260.39	5,755.58	26.13	118.74	89.93	683.46	3,731.82	2,959.82	2,863.86	95.96	30.845		
5,300.00	5,161.73	6,300.00	5,794.01	26.49	119.10	89.90	684.84	3,722.37	2,935.76	2,838.79	96.96	30.277		
5,400.00	5,261.73	6,300.00	5,794.01	26.86	119.10	89.90	684.84	3,722.37	2,914.14	2,816.12	98.03	29.728		
5,500.00	5,361.73	6,361.62	5,854.30	27.23	119.40	89.89	685.39	3,709.62	2,893.94	2,795.17	98.77	29.300		
5,600.00	5,461.73	6,400.00	5,892.08	27.60	119.59	89.90	685.12	3,702.89	2,876.29	2,776.72	99.57	28.888		
5,700.00	5,561.73	6,434.45	5,926.11	27.97	119.68	89.90	684.72	3,697.59	2,860.76	2,760.44	100.33	28.515		
5,800.00	5,661.73	6,473.44	5,964.75	28.35	119.79	89.91	684.39	3,692.35	2,847.32	2,746.29	101.03	28.183		
5,900.00	5,761.73	6,500.00	5,991.12	28.72	119.86	89.91	684.26	3,689.24	2,836.04	2,734.32	101.73	27.879		
6,000.00	5,861.73	6,541.90	6,032.84	29.10	119.93	89.91	684.30	3,685.30	2,826.97	2,724.62	102.35	27.620		
6,100.00	5,961.73	6,600.00	6,090.84	29.48	120.02	89.90	685.04	3,682.03	2,820.73	2,717.78	102.95	27.399		
6,200.00	6,061.73	6,611.60	6,102.43	29.86	120.03	89.89	685.26	3,681.65	2,816.11	2,712.61	103.50	27.208		
6,300.00	6,161.73	6,677.20	6,168.00	30.25	120.10	89.87	686.26	3,679.93	2,813.50	2,709.45	104.05	27.040		
6,400.00	6,261.73	6,763.09	6,253.87	30.63	120.19	89.85	687.16	3,678.55	2,811.88	2,707.27	104.61	26.881		
6,451.69	6,313.42	6,814.69	6,305.46	30.83	120.24	89.84	687.67	3,677.79	2,811.11	2,706.21	104.90	26.797		
6,461.41	6,323.14	6,825.25	6,316.02	30.87	120.25	-177.70	687.78	3,677.63	2,811.04	2,706.08	104.96	26.783	CC, ES	
6,500.00	6,361.68	6,867.19	6,357.95	31.01	120.29	-177.70	688.15	3,676.96	2,812.19	2,707.01	105.18	26.738		
6,550.00	6,411.34	6,920.99	6,411.74	31.20	120.34	-177.70	688.58	3,676.04	2,817.07	2,711.62	105.45	26.715	SF	
6,600.00	6,460.39	6,973.79	6,464.53	31.38	120.40	-177.69	689.06	3,675.06	2,825.77	2,720.06	105.71	26.731		
6,650.00	6,508.54	7,022.71	6,513.44	31.58	120.45	-177.66	689.61	3,674.10	2,838.26	2,732.29	105.97	26.784		
6,700.00	6,555.48	7,067.46	6,558.17	31.78	120.49	-177.63	690.24	3,673.25	2,854.54	2,748.32	106.21	26.876		
6,750.00	6,600.93	7,112.98	6,603.69	31.98	120.54	-177.58	691.04	3,672.42	2,874.50	2,768.05	106.45	27.004		
6,800.00	6,644.61	7,163.12	6,653.80	32.20	120.60	-177.52	692.10	3,671.45	2,897.94	2,791.25	106.69	27.163		
6,850.00	6,686.25	7,211.10	6,701.76	32.44	120.65	-177.45	693.28	3,670.41	2,924.68	2,817.77	106.91	27.355		
6,900.00	6,725.58	7,254.47	6,745.10	32.68	120.70	-177.36	694.31	3,669.41	2,954.60	2,847.48	107.12	27.582		
6,950.00	6,762.38	7,295.66	6,786.27	32.96	120.74	-177.23	695.20	3,668.41	2,987.51	2,880.20	107.31	27.840		
7,000.00	6,796.41	7,329.08	6,819.67	33.25	120.78	-177.05	695.89	3,667.59	3,023.26	2,915.79	107.47	28.131		
7,050.00	6,827.46	7,359.10	6,849.68	33.58	120.82	-176.81	696.49	3,666.86	3,061.66	2,954.04	107.61	28.451		
7,100.00	6,855.34	7,386.15	6,876.72	33.93	120.85	-176.50	697.02	3,666.23	3,102.46	2,994.72	107.74	28.797		
7,150.00	6,879.88	7,409.51	6,900.06	34.33	120.87	-176.08	697.47	3,665.69	3,145.42	3,037.57	107.85	29.166		
7,200.00	6,900.93	7,428.98	6,919.53	34.76	120.89	-175.47	697.82	3,665.26	3,190.26	3,082.32	107.94	29.557		
7,250.00	6,918.36	7,445.22	6,935.76	35.23	120.91	-174.56	698.09	3,664.92	3,236.71	3,128.69	108.02	29.965		
7,300.00	6,932.05	7,458.15	6,948.69	35.74	120.93	-173.09	698.29	3,664.65	3,284.47	3,176.39	108.08	30.389		
7,350.00	6,941.94	7,467.70	6,958.23	36.29	120.94	-170.31	698.43	3,664.45	3,333.24	3,225.10	108.14	30.824		
7,400.00	6,947.94	7,473.82	6,964.35	36.87	120.94	-163.39	698.52	3,664.33	3,382.71	3,274.53	108.18	31.268		
7,450.00	6,950.04	7,476.50	6,967.03	37.47	120.95	-126.86	698.56	3,664.28	3,432.58	3,324.36	108.23	31.717		
7,458.56	6,950.00	7,476.61	6,967.14	37.58	120.95	-106.49	698.56	3,664.28	3,441.13	3,332.90	108.23	31.794		
7,500.00	6,949.56	7,476.91	6,967.44	38.11	120.95	-106.64	698.56	3,664.27	3,482.56	3,374.29	108.26	32.168		
7,600.00	6,948.48	7,477.63	6,968.17	39.51	120.95	-107.02	698.57	3,664.26	3,582.51	3,474.18	108.34	33.069		
7,700.00	6,947.40	7,478.35	6,968.88	41.06	120.95	-107.39	698.58	3,664.24	3,682.47	3,574.06	108.40	33.970		
7,800.00	6,946.32	7,479.07	6,969.60	42.74	120.95	-107.76	698.59	3,664.23	3,782.43	3,673.96	108.47	34.870		
7,900.00	6,945.24	7,479.78	6,970.31	44.55	120.95	-108.12	698.60	3,664.21	3,882.39	3,773.85	108.54	35.770		
8,000.00	6,944.16	7,480.48	6,971.01	46.46	120.95	-108.48	698.61	3,664.20	3,982.35	3,873.75	108.60	36.669		
8,100.00	6,943.08	7,481.18	6,971.71	48.47	120.95	-108.84	698.62	3,664.19	4,082.32	3,973.65	108.66	37.568		
8,200.00	6,942.01	7,481.87	6,972.40	50.55	120.95	-109.19	698.63	3,664.17	4,182.28	4,073.56	108.72	38.467		
8,300.00	6,940.93	7,482.56	6,973.09	52.71	120.95	-109.54	698.64	3,664.16	4,282.25	4,173.47	108.78	39.365		
8,400.00	6,939.85	7,483.25	6,973.78	54.93	120.96	-109.89	698.65	3,664.15	4,382.22	4,273.38	108.84	40.262		
8,500.00	6,938.77	7,483.93	6,974.46	57.20	120.96	-110.23	698.66	3,664.13	4,482.19	4,373.29	108.90	41.159		
8,600.00	6,937.69	7,484.61	6,975.14	59.53	120.96	-110.56	698.67	3,664.12	4,582.16	4,473.21	108.96	42.055		
8,700.00	6,936.61	7,485.28	6,975.81	61.89	120.96	-110.90	698.68	3,664.11	4,682.14	4,573.12	109.01	42.950		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	7,485.95	6,976.48	64.30	120.96	-111.23	698.68	3,664.09	4,782.11	4,673.04	109.07	43.845		
8,900.00	6,934.46	7,486.61	6,977.14	66.74	120.96	-111.56	698.69	3,664.08	4,882.08	4,772.96	109.12	44.739		
9,000.00	6,933.38	7,487.27	6,977.80	69.21	120.96	-111.88	698.70	3,664.07	4,982.06	4,872.88	109.18	45.632		
9,100.00	6,932.30	7,487.93	6,978.46	71.71	120.96	-112.20	698.71	3,664.06	5,082.04	4,972.80	109.23	46.524		
9,200.00	6,931.22	7,488.58	6,979.11	74.23	120.96	-112.52	698.72	3,664.04	5,182.01	5,072.72	109.29	47.416		
9,300.00	6,930.14	7,489.23	6,979.76	76.78	120.96	-112.83	698.73	3,664.03	5,281.99	5,172.65	109.34	48.307		
9,400.00	6,929.06	7,489.87	6,980.40	79.34	120.96	-113.14	698.74	3,664.02	5,381.97	5,272.57	109.40	49.197		
9,500.00	6,927.99	7,490.51	6,981.04	81.93	120.96	-113.45	698.74	3,664.01	5,481.95	5,372.50	109.45	50.086		
9,600.00	6,926.91	7,491.14	6,981.67	84.53	120.96	-113.75	698.75	3,664.00	5,581.93	5,472.42	109.50	50.974		
9,700.00	6,925.83	7,491.77	6,982.30	87.14	120.96	-114.05	698.76	3,663.98	5,681.91	5,572.35	109.56	51.862		
9,800.00	6,924.75	7,492.40	6,982.93	89.77	120.97	-114.35	698.77	3,663.97	5,781.89	5,672.28	109.61	52.748		
9,900.00	6,923.67	7,493.02	6,983.55	92.41	120.97	-114.64	698.78	3,663.96	5,881.87	5,772.20	109.67	53.633		
10,000.00	6,922.59	7,493.64	6,984.17	95.07	120.97	-114.93	698.78	3,663.95	5,981.85	5,872.13	109.72	54.518		
10,100.00	6,921.51	7,494.26	6,984.79	97.73	120.97	-115.22	698.79	3,663.94	6,081.84	5,972.06	109.78	55.401		
10,200.00	6,920.44	7,494.87	6,985.40	100.40	120.97	-115.50	698.80	3,663.92	6,181.82	6,071.99	109.83	56.283		
10,300.00	6,919.36	7,495.48	6,986.00	103.08	120.97	-115.78	698.81	3,663.91	6,281.80	6,171.91	109.89	57.165		
10,400.00	6,918.28	7,496.08	6,986.61	105.77	120.97	-116.06	698.81	3,663.90	6,381.79	6,271.84	109.95	58.045		
10,500.00	6,917.20	7,496.68	6,987.21	108.47	120.97	-116.34	698.82	3,663.89	6,481.77	6,371.77	110.00	58.924		
10,600.00	6,916.12	7,497.28	6,987.80	111.18	120.97	-116.61	698.83	3,663.88	6,581.76	6,471.70	110.06	59.802		
10,700.00	6,915.04	7,500.00	6,990.53	113.89	120.97	-117.83	698.86	3,663.83	6,681.74	6,571.63	110.12	60.678		
10,800.00	6,913.96	7,500.00	6,990.53	116.61	120.97	-117.83	698.86	3,663.83	6,781.73	6,671.55	110.18	61.553		
10,900.00	6,912.89	7,500.00	6,990.53	119.33	120.97	-117.83	698.86	3,663.83	6,881.72	6,771.48	110.23	62.428		
11,000.00	6,911.81	7,500.00	6,990.53	122.06	120.97	-117.83	698.86	3,663.83	6,981.70	6,871.41	110.29	63.302		
11,100.00	6,910.73	7,500.00	6,990.53	124.79	120.97	-117.83	698.86	3,663.83	7,081.69	6,971.34	110.35	64.174		
11,200.00	6,909.65	7,500.00	6,990.53	127.53	120.97	-117.83	698.86	3,663.83	7,181.68	7,071.26	110.41	65.045		
11,300.00	6,908.57	7,500.00	6,990.53	130.27	120.97	-117.83	698.86	3,663.83	7,281.66	7,171.19	110.47	65.918		
11,400.00	6,907.49	7,500.00	6,990.53	133.02	120.97	-117.83	698.86	3,663.83	7,381.65	7,271.12	110.53	66.783		
11,500.00	6,906.41	7,500.00	6,990.53	135.77	120.97	-117.83	698.86	3,663.83	7,481.64	7,371.05	110.59	67.650		
11,600.00	6,905.34	7,500.00	6,990.53	138.52	120.97	-117.83	698.86	3,663.83	7,581.63	7,470.97	110.66	68.515		
11,700.00	6,904.26	7,500.00	6,990.53	141.28	120.97	-117.83	698.86	3,663.83	7,681.62	7,570.90	110.72	69.380		
11,800.00	6,903.18	7,500.00	6,990.53	144.04	120.97	-117.83	698.86	3,663.83	7,781.61	7,670.82	110.78	70.243		
11,900.00	6,902.10	7,500.00	6,990.53	146.80	120.97	-117.83	698.86	3,663.83	7,881.59	7,770.75	110.85	71.104		
12,000.00	6,901.02	7,500.00	6,990.53	149.57	120.97	-117.83	698.86	3,663.83	7,981.58	7,870.67	110.91	71.964		
12,100.00	6,899.94	7,500.00	6,990.53	152.34	120.97	-117.83	698.86	3,663.83	8,081.57	7,970.60	110.98	72.823		
12,200.00	6,898.87	7,500.00	6,990.53	155.11	120.97	-117.83	698.86	3,663.83	8,181.56	8,070.52	111.04	73.680		
12,300.00	6,897.79	7,500.00	6,990.53	157.89	120.97	-117.83	698.86	3,663.83	8,281.55	8,170.45	111.11	74.536		
12,400.00	6,896.71	7,500.00	6,990.53	160.66	120.97	-117.83	698.86	3,663.83	8,381.55	8,270.37	111.18	75.390		
12,500.00	6,895.63	7,500.00	6,990.53	163.44	120.97	-117.83	698.86	3,663.83	8,481.54	8,370.29	111.24	76.243		
12,600.00	6,894.55	7,500.00	6,990.53	166.22	120.97	-117.83	698.86	3,663.83	8,581.53	8,470.22	111.31	77.095		
12,700.00	6,893.47	7,500.00	6,990.53	169.00	120.97	-117.83	698.86	3,663.83	8,681.52	8,570.14	111.38	77.944		
12,800.00	6,892.39	7,500.00	6,990.53	171.79	120.97	-117.83	698.86	3,663.83	8,781.51	8,670.06	111.45	78.792		
12,900.00	6,891.32	7,500.00	6,990.53	174.57	120.97	-117.83	698.86	3,663.83	8,881.50	8,769.98	111.52	79.639		
13,000.00	6,890.24	7,500.00	6,990.53	177.36	120.97	-117.83	698.86	3,663.83	8,981.49	8,869.90	111.59	80.484		
13,100.00	6,889.16	7,500.00	6,990.53	180.15	120.97	-117.83	698.86	3,663.83	9,081.49	8,969.82	111.67	81.328		
13,200.00	6,888.08	7,500.00	6,990.53	182.94	120.97	-117.83	698.86	3,663.83	9,181.48	9,069.74	111.74	82.170		
13,300.00	6,887.00	7,500.00	6,990.53	185.74	120.97	-117.83	698.86	3,663.83	9,281.47	9,169.66	111.81	83.010		
13,400.00	6,885.92	7,500.00	6,990.53	188.53	120.97	-117.83	698.86	3,663.83	9,381.46	9,269.58	111.89	83.848		
13,500.00	6,884.84	7,511.60	7,002.12	191.32	120.99	-122.76	699.00	3,663.61	9,481.44	9,369.48	111.97	84.680		
13,600.00	6,883.77	7,512.03	7,002.55	194.12	120.99	-122.94	699.01	3,663.61	9,581.44	9,469.39	112.04	85.515		
13,700.00	6,882.69	7,512.46	7,002.98	196.92	120.99	-123.11	699.01	3,663.60	9,681.43	9,569.31	112.12	86.348		
13,800.00	6,881.61	7,512.88	7,003.40	199.72	120.99	-123.28	699.02	3,663.59	9,781.42	9,669.22	112.20	87.180		
13,900.00	6,880.53	7,513.30	7,003.82	202.52	120.99	-123.45	699.02	3,663.58	9,881.41	9,769.14	112.28	88.010		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boomerang 21-5 - SRC Northridge #11-4D - OH - OH												Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,000.00	6,879.45	7,513.72	7,004.24	205.32	120.99	-123.61	699.03	3,663.58	9,981.41	9,869.05	112.36	88.838	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	97.16	-701.73	5,587.40	5,631.52					
100.00	100.00	1,414.59	1,397.70	3.28	9.52	96.86	-651.44	5,416.19	5,619.23	5,608.64	10.59	530.662		
200.00	200.00	1,932.22	1,895.68	3.34	14.93	97.04	-651.80	5,275.78	5,595.19	5,582.22	12.97	431.395		
300.00	299.98	2,245.23	2,190.39	3.44	19.73	45.92	-657.61	5,170.60	5,560.57	5,545.95	14.62	380.408		
400.00	399.84	2,300.00	2,241.76	3.61	20.66	46.56	-657.19	5,151.63	5,522.65	5,507.67	14.99	368.497		
500.00	499.45	2,341.80	2,281.10	3.81	21.30	47.23	-656.40	5,137.52	5,483.24	5,467.92	15.32	357.823		
600.00	598.70	2,400.00	2,336.05	4.06	22.20	47.97	-654.73	5,118.40	5,442.43	5,426.65	15.78	344.883		
700.00	697.47	700.00	2,923.10	4.35	23.76	49.91	-635.89	4,876.11	5,390.86	5,381.32	9.54	565.243		
800.00	795.62	3,134.15	3,011.84	4.66	37.82	51.12	-632.27	4,834.60	5,337.17	5,317.23	19.93	267.764		
900.00	893.06	3,166.33	3,041.03	5.01	38.62	52.25	-631.05	4,821.11	5,282.08	5,261.72	20.36	259.455		
961.44	952.51	3,200.00	3,071.71	5.25	39.46	53.01	-629.86	4,807.28	5,247.80	5,227.09	20.71	253.398		
1,000.00	989.71	3,200.00	3,071.71	5.40	39.46	53.01	-629.86	4,807.28	5,226.16	5,205.33	20.83	250.917		
1,100.00	1,086.20	3,229.27	3,098.48	5.81	40.10	53.11	-628.83	4,795.52	5,170.75	5,149.46	21.29	242.850		
1,200.00	1,182.69	3,260.70	3,127.36	6.24	40.78	53.22	-627.63	4,783.16	5,116.20	5,094.40	21.80	234.709		
1,300.00	1,279.18	3,300.00	3,163.64	6.69	41.64	53.35	-626.01	4,768.13	5,062.54	5,040.17	22.37	226.308		
1,400.00	1,375.67	3,332.73	3,193.96	7.15	42.27	53.46	-624.86	4,755.86	5,009.70	4,986.76	22.94	218.369		
1,500.00	1,472.15	3,375.19	3,233.38	7.62	43.10	53.61	-624.16	4,740.10	4,957.62	4,934.04	23.59	210.199		
1,600.00	1,568.64	3,400.00	3,256.45	8.10	43.58	53.71	-624.16	4,730.98	4,906.39	4,882.22	24.17	203.007		
1,700.00	1,665.13	3,433.44	3,287.67	8.59	44.14	53.84	-624.42	4,718.99	4,856.15	4,831.33	24.82	195.648		
1,800.00	1,761.62	3,457.49	3,310.24	9.08	44.54	53.94	-624.65	4,710.69	4,807.09	4,781.64	25.45	188.910		
1,900.00	1,858.11	3,500.00	3,350.37	9.58	45.24	54.11	-625.19	4,696.70	4,759.31	4,733.13	26.18	181.763		
2,000.00	1,954.60	3,500.00	3,350.37	10.08	45.24	54.11	-625.19	4,696.70	4,712.51	4,685.79	26.72	176.343		
2,100.00	2,051.09	3,500.00	3,350.37	10.59	45.24	54.11	-625.19	4,696.70	4,667.39	4,640.11	27.28	171.115		
2,200.00	2,147.57	3,550.66	3,398.67	11.09	45.84	54.30	-625.23	4,681.41	4,622.93	4,594.87	28.07	164.722		
2,300.00	2,244.06	3,600.00	3,446.19	11.61	46.42	54.47	-623.96	4,668.22	4,580.41	4,551.55	28.86	158.734		
2,400.00	2,340.55	3,600.00	3,446.19	12.12	46.42	54.47	-623.96	4,668.22	4,538.67	4,509.22	29.44	154.141		
2,500.00	2,437.04	4,200.00	4,015.19	12.64	54.98	56.77	-607.96	4,481.24	4,491.77	4,459.24	32.53	138.093		
2,600.00	2,533.53	4,241.82	4,054.07	13.15	55.73	56.96	-607.60	4,465.84	4,441.60	4,408.22	33.37	133.089		
2,700.00	2,630.02	4,271.04	4,081.40	13.67	56.25	57.09	-607.33	4,455.49	4,392.64	4,358.46	34.18	128.521		
2,800.00	2,726.50	4,303.89	4,112.26	14.19	56.84	57.24	-607.01	4,444.27	4,344.87	4,309.85	35.02	124.084		
2,900.00	2,822.99	4,475.08	4,272.78	14.72	59.76	58.05	-606.46	4,384.79	4,296.97	4,260.45	36.52	117.662		
3,000.00	2,919.48	4,641.01	4,427.05	15.24	62.93	58.90	-607.29	4,323.70	4,247.65	4,209.56	38.10	111.495		
3,100.00	3,015.97	4,805.06	4,578.20	15.76	66.41	59.78	-607.60	4,259.93	4,196.50	4,156.77	39.73	105.627		
3,200.00	3,112.46	4,855.25	4,624.40	16.29	67.47	60.05	-607.31	4,240.33	4,145.37	4,104.58	40.79	101.624		
3,300.00	3,208.95	4,915.10	4,679.67	16.81	68.74	60.38	-606.74	4,217.38	4,094.98	4,053.05	41.92	97.678		
3,400.00	3,305.44	5,006.20	4,763.85	17.34	70.62	60.88	-605.63	4,182.56	4,044.86	4,001.64	43.22	93.582		
3,500.00	3,401.92	5,137.63	4,884.86	17.87	73.46	61.64	-605.16	4,131.29	3,994.56	3,949.76	44.80	89.157		
3,600.00	3,498.41	5,248.92	4,986.64	18.40	76.02	62.32	-604.69	4,086.27	3,943.08	3,896.72	46.36	85.062		
3,700.00	3,594.90	5,300.00	5,033.36	18.93	77.21	62.64	-604.67	4,065.63	3,892.12	3,844.50	47.62	81.730		
3,800.00	3,691.39	5,300.00	5,033.36	19.46	77.21	62.64	-604.67	4,065.63	3,842.65	3,794.03	48.62	79.036		
3,900.00	3,787.88	5,347.54	5,077.18	19.99	78.14	62.94	-604.86	4,047.20	3,794.08	3,744.19	49.90	76.039		
4,000.00	3,884.37	5,400.00	5,126.23	20.52	79.16	63.27	-605.30	4,028.60	3,747.82	3,696.59	51.23	73.158		
4,100.00	3,980.85	5,400.00	5,126.23	21.05	79.16	63.27	-605.30	4,028.60	3,702.32	3,650.04	52.28	70.814		
4,200.00	4,077.34	5,424.82	5,149.64	21.58	79.52	63.43	-605.56	4,020.34	3,658.79	3,605.32	53.47	68.432		
4,300.00	4,173.83	5,460.82	5,183.73	22.11	80.03	63.66	-605.93	4,008.78	3,616.70	3,561.98	54.72	66.090		
4,390.25	4,260.91	5,500.00	5,221.01	22.59	80.60	63.90	-606.32	3,996.76	3,579.97	3,524.06	55.91	64.032		
4,400.00	4,270.32	5,500.00	5,221.01	22.64	80.60	63.83	-606.32	3,996.76	3,576.07	3,520.05	56.02	63.841		
4,500.00	4,367.33	5,550.95	5,269.69	23.16	81.21	63.08	-606.80	3,981.72	3,537.56	3,480.23	57.32	61.714		
4,600.00	4,465.13	5,612.01	5,328.19	23.65	81.95	63.31	-607.38	3,964.26	3,501.55	3,442.91	58.64	59.715		
4,700.00	4,563.60	5,708.84	5,420.94	24.12	83.08	62.84	-609.14	3,936.49	3,467.46	3,407.35	60.11	57.685		
4,800.00	4,662.61	5,811.24	5,518.88	24.56	84.31	62.69	-611.18	3,906.66	3,434.71	3,373.12	61.59	55.763		
4,900.00	4,762.05	5,872.27	5,577.35	24.98	85.01	62.35	-612.20	3,889.22	3,404.03	3,341.23	62.80	54.208		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Northridge #12-4D - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-GYRO-NS														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	5,928.19	5,631.09	25.38	85.62	62.02	-613.12	3,873.80	3,375.92	3,312.03	63.90	52.835		
5,100.00	4,961.73	5,980.03	5,681.13	25.76	86.14	61.70	-613.83	3,860.25	3,350.67	3,285.78	64.89	51.636		
5,151.69	5,013.42	6,000.00	5,700.46	25.95	86.34	113.42	-614.07	3,855.24	3,338.77	3,273.43	65.34	51.097		
5,200.00	5,061.73	6,026.54	5,726.21	26.13	86.54	113.46	-614.35	3,848.80	3,328.20	3,262.44	65.77	50.606		
5,300.00	5,161.73	6,069.72	5,768.24	26.49	86.88	113.54	-614.72	3,838.96	3,307.55	3,240.95	66.59	49.669		
5,400.00	5,261.73	6,100.00	5,797.83	26.86	87.11	113.59	-614.91	3,832.53	3,288.57	3,221.23	67.35	48.831		
5,500.00	5,361.73	6,140.87	5,837.95	27.23	87.32	113.65	-615.13	3,824.70	3,271.43	3,203.35	68.08	48.054		
5,600.00	5,461.73	6,200.00	5,896.34	27.60	87.62	113.72	-615.47	3,815.42	3,256.72	3,187.87	68.85	47.301		
5,700.00	5,561.73	6,200.00	5,896.34	27.97	87.62	113.72	-615.47	3,815.42	3,243.35	3,173.96	69.39	46.740		
5,800.00	5,661.73	6,247.53	5,943.50	28.35	87.75	113.77	-615.68	3,809.48	3,232.19	3,162.15	70.04	46.150		
5,900.00	5,761.73	6,300.00	5,995.69	28.72	87.90	113.81	-615.78	3,804.19	3,222.85	3,152.18	70.67	45.603		
6,000.00	5,861.73	6,341.25	6,036.80	29.10	87.98	113.83	-615.79	3,800.80	3,215.11	3,143.87	71.23	45.135		
6,100.00	5,961.73	6,400.00	6,095.42	29.48	88.10	113.86	-615.76	3,796.79	3,208.81	3,136.98	71.83	44.675		
6,200.00	6,061.73	6,455.46	6,150.80	29.86	88.19	113.88	-615.66	3,793.85	3,203.83	3,131.45	72.38	44.264		
6,300.00	6,161.73	6,522.74	6,218.02	30.25	88.29	113.89	-615.36	3,791.26	3,200.09	3,127.14	72.95	43.866		
6,400.00	6,261.73	6,609.85	6,305.09	30.63	88.41	113.90	-614.49	3,788.63	3,196.93	3,123.36	73.57	43.455		
6,451.69	6,313.42	6,645.78	6,341.01	30.83	88.46	113.90	-614.02	3,787.79	3,195.55	3,121.69	73.85	43.268		
6,467.85	6,329.58	6,657.02	6,352.24	30.89	88.48	-153.65	-613.87	3,787.57	3,195.35	3,121.41	73.94	43.216	CC, ES	
6,500.00	6,361.68	6,679.36	6,374.58	31.01	88.51	-153.63	-613.57	3,787.18	3,196.13	3,122.03	74.10	43.135		
6,550.00	6,411.34	6,715.43	6,410.65	31.20	88.56	-153.50	-613.09	3,786.71	3,200.41	3,126.10	74.31	43.069	SF	
6,600.00	6,460.39	6,753.26	6,448.47	31.38	88.61	-153.24	-612.62	3,786.35	3,208.37	3,133.88	74.49	43.070		
6,650.00	6,508.54	6,790.36	6,485.57	31.58	88.66	-152.84	-612.20	3,786.13	3,219.95	3,145.31	74.64	43.142		
6,700.00	6,555.48	6,829.30	6,524.50	31.78	88.71	-152.30	-611.85	3,785.98	3,235.05	3,160.30	74.76	43.275		
6,750.00	6,600.93	6,867.99	6,563.20	31.98	88.76	-151.61	-611.67	3,785.86	3,253.55	3,178.71	74.85	43.469		
6,800.00	6,644.61	6,908.97	6,604.17	32.20	88.81	-150.74	-611.67	3,785.73	3,275.33	3,200.41	74.92	43.716		
6,850.00	6,686.25	6,970.65	6,665.85	32.44	88.90	-149.81	-611.74	3,785.30	3,300.05	3,224.99	75.06	43.967		
6,900.00	6,725.58	7,020.09	6,715.29	32.68	88.97	-148.61	-611.79	3,784.69	3,327.49	3,252.37	75.13	44.292		
6,950.00	6,762.38	7,057.73	6,752.93	32.96	89.02	-147.08	-611.82	3,784.19	3,357.70	3,282.57	75.13	44.690		
7,000.00	6,796.41	7,092.61	6,787.80	33.25	89.07	-145.21	-611.83	3,783.73	3,390.52	3,315.40	75.11	45.138		
7,050.00	6,827.46	7,119.21	6,814.40	33.58	89.11	-142.87	-611.85	3,783.39	3,425.79	3,350.73	75.05	45.645		
7,100.00	6,855.34	7,141.66	6,836.85	33.93	89.14	-139.97	-611.88	3,783.13	3,463.33	3,388.36	74.97	46.199		
7,150.00	6,879.88	7,161.40	6,856.59	34.33	89.16	-136.38	-611.94	3,782.93	3,502.91	3,428.05	74.86	46.790		
7,200.00	6,900.93	7,178.32	6,873.51	34.76	89.19	-131.94	-612.00	3,782.78	3,544.28	3,469.53	74.75	47.416		
7,250.00	6,918.36	7,192.33	6,887.52	35.23	89.21	-126.43	-612.07	3,782.67	3,587.18	3,512.55	74.62	48.070		
7,300.00	6,932.05	7,203.94	6,899.13	35.74	89.22	-119.64	-612.13	3,782.58	3,631.33	3,556.83	74.49	48.747		
7,350.00	6,941.94	7,213.34	6,908.52	36.29	89.24	-111.44	-612.18	3,782.52	3,676.45	3,602.09	74.36	49.442		
7,400.00	6,947.94	7,219.16	6,914.34	36.87	89.25	-101.79	-612.21	3,782.48	3,722.27	3,648.05	74.22	50.152		
7,450.00	6,950.04	7,221.39	6,916.57	37.47	89.25	-91.04	-612.22	3,782.46	3,768.49	3,694.42	74.07	50.874		
7,458.56	6,950.00	7,221.41	6,916.59	37.58	89.25	-89.14	-612.22	3,782.46	3,776.43	3,702.38	74.05	50.998		
7,500.00	6,949.56	7,221.25	6,916.44	38.11	89.25	-89.14	-612.22	3,782.46	3,814.87	3,740.94	73.93	51.599		
7,600.00	6,948.48	7,220.89	6,916.07	39.51	89.25	-89.12	-612.22	3,782.47	3,907.90	3,834.22	73.68	53.037		
7,700.00	6,947.40	7,220.52	6,915.71	41.06	89.25	-89.11	-612.22	3,782.47	4,001.27	3,927.80	73.47	54.460		
7,800.00	6,946.32	7,220.16	6,915.34	42.74	89.25	-89.09	-612.21	3,782.47	4,094.95	4,021.65	73.30	55.868		
7,900.00	6,945.24	7,219.79	6,914.98	44.55	89.25	-89.08	-612.21	3,782.47	4,188.92	4,115.77	73.15	57.262		
8,000.00	6,944.16	7,219.43	6,914.62	46.46	89.25	-89.06	-612.21	3,782.48	4,283.16	4,210.12	73.04	58.642		
8,100.00	6,943.08	7,219.08	6,914.26	48.47	89.25	-89.05	-612.21	3,782.48	4,377.66	4,304.71	72.95	60.010		
8,200.00	6,942.01	7,218.72	6,913.90	50.55	89.25	-89.03	-612.21	3,782.48	4,472.40	4,399.52	72.88	61.366		
8,300.00	6,940.93	7,218.36	6,913.55	52.71	89.25	-89.02	-612.20	3,782.48	4,567.36	4,494.53	72.83	62.710		
8,400.00	6,939.85	7,218.01	6,913.20	54.93	89.24	-89.01	-612.20	3,782.49	4,662.54	4,589.73	72.80	64.043		
8,500.00	6,938.77	7,217.66	6,912.84	57.20	89.24	-88.99	-612.20	3,782.49	4,757.91	4,685.12	72.79	65.366		
8,600.00	6,937.69	7,217.31	6,912.50	59.53	89.24	-88.98	-612.20	3,782.49	4,853.47	4,780.68	72.79	66.679		
8,700.00	6,936.61	7,216.96	6,912.15	61.89	89.24	-88.96	-612.20	3,782.49	4,949.20	4,876.40	72.80	67.983		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Northridge #12-4D - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-GYRO-NS														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	7,216.62	6,911.80	64.30	89.24	-88.95	-612.19	3,782.50	5,045.10	4,972.27	72.82	69.278		
8,900.00	6,934.46	7,216.27	6,911.46	66.74	89.24	-88.94	-612.19	3,782.50	5,141.15	5,068.30	72.86	70.565		
9,000.00	6,933.38	7,215.93	6,911.11	69.21	89.24	-88.92	-612.19	3,782.50	5,237.36	5,164.46	72.90	71.844		
9,100.00	6,932.30	7,215.59	6,910.77	71.71	89.24	-88.91	-612.19	3,782.50	5,333.70	5,260.75	72.95	73.116		
9,200.00	6,931.22	7,215.25	6,910.43	74.23	89.24	-88.89	-612.19	3,782.50	5,430.17	5,357.17	73.01	74.380		
9,300.00	6,930.14	7,214.91	6,910.10	76.78	89.24	-88.88	-612.19	3,782.51	5,526.77	5,453.70	73.07	75.638		
9,400.00	6,929.06	7,214.57	6,909.76	79.34	89.24	-88.87	-612.18	3,782.51	5,623.49	5,550.35	73.14	76.889		
9,500.00	6,927.99	7,214.24	6,909.43	81.93	89.24	-88.85	-612.18	3,782.51	5,720.32	5,647.11	73.21	78.133		
9,600.00	6,926.91	7,213.91	6,909.09	84.53	89.24	-88.84	-612.18	3,782.51	5,817.26	5,743.97	73.29	79.372		
9,700.00	6,925.83	7,213.58	6,908.76	87.14	89.24	-88.83	-612.18	3,782.52	5,914.30	5,840.93	73.37	80.605		
9,800.00	6,924.75	7,213.25	6,908.43	89.77	89.24	-88.81	-612.18	3,782.52	6,011.44	5,937.98	73.46	81.833		
9,900.00	6,923.67	7,212.92	6,908.10	92.41	89.24	-88.80	-612.18	3,782.52	6,108.67	6,035.12	73.55	83.055		
10,000.00	6,922.59	7,212.59	6,907.78	95.07	89.24	-88.79	-612.17	3,782.52	6,205.99	6,132.35	73.64	84.273		
10,100.00	6,921.51	7,212.27	6,907.45	97.73	89.24	-88.77	-612.17	3,782.52	6,303.39	6,229.65	73.74	85.485		
10,200.00	6,920.44	7,211.95	6,907.13	100.40	89.24	-88.76	-612.17	3,782.53	6,400.87	6,327.04	73.83	86.693		
10,300.00	6,919.36	7,211.62	6,906.81	103.08	89.24	-88.75	-612.17	3,782.53	6,498.43	6,424.50	73.93	87.896		
10,400.00	6,918.28	7,211.30	6,906.49	105.77	89.24	-88.73	-612.17	3,782.53	6,596.06	6,522.03	74.03	89.095		
10,500.00	6,917.20	7,210.99	6,906.17	108.47	89.23	-88.72	-612.16	3,782.53	6,693.76	6,619.63	74.14	90.289		
10,600.00	6,916.12	7,210.67	6,905.85	111.18	89.23	-88.71	-612.16	3,782.54	6,791.53	6,717.29	74.24	91.480		
10,700.00	6,915.04	7,210.35	6,905.54	113.89	89.23	-88.70	-612.16	3,782.54	6,889.36	6,815.02	74.35	92.666		
10,800.00	6,913.96	7,210.04	6,905.22	116.61	89.23	-88.68	-612.16	3,782.54	6,987.26	6,912.80	74.45	93.848		
10,900.00	6,912.89	7,209.73	6,904.91	119.33	89.23	-88.67	-612.16	3,782.54	7,085.21	7,010.65	74.56	95.027		
11,000.00	6,911.81	7,209.41	6,904.60	122.06	89.23	-88.66	-612.16	3,782.54	7,183.22	7,108.55	74.67	96.202		
11,100.00	6,910.73	7,209.11	6,904.29	124.79	89.23	-88.65	-612.15	3,782.55	7,281.28	7,206.50	74.78	97.373		
11,200.00	6,909.65	7,208.80	6,903.98	127.53	89.23	-88.63	-612.15	3,782.55	7,379.40	7,304.51	74.89	98.541		
11,300.00	6,908.57	7,208.49	6,903.68	130.27	89.23	-88.62	-612.15	3,782.55	7,477.56	7,402.57	75.00	99.705		
11,400.00	6,907.49	7,208.19	6,903.37	133.02	89.23	-88.61	-612.15	3,782.55	7,575.78	7,500.67	75.11	100.866		
11,500.00	6,906.41	7,207.88	6,903.07	135.77	89.23	-88.60	-612.15	3,782.55	7,674.03	7,598.82	75.22	102.023		
11,600.00	6,905.34	7,207.58	6,902.76	138.52	89.23	-88.58	-612.15	3,782.56	7,772.34	7,697.01	75.33	103.177		
11,700.00	6,904.26	7,207.28	6,902.46	141.28	89.23	-88.57	-612.15	3,782.56	7,870.68	7,795.24	75.44	104.328		
11,800.00	6,903.18	7,206.98	6,902.16	144.04	89.23	-88.56	-612.14	3,782.56	7,969.07	7,893.52	75.55	105.476		
11,900.00	6,902.10	7,206.68	6,901.87	146.80	89.23	-88.55	-612.14	3,782.56	8,067.50	7,991.83	75.67	106.621		
12,000.00	6,901.02	7,206.38	6,901.57	149.57	89.23	-88.54	-612.14	3,782.57	8,165.96	8,090.19	75.78	107.762		
12,100.00	6,899.94	7,206.09	6,901.27	152.34	89.23	-88.52	-612.14	3,782.57	8,264.47	8,188.58	75.89	108.901		
12,200.00	6,898.87	7,205.79	6,900.98	155.11	89.23	-88.51	-612.14	3,782.57	8,363.00	8,287.00	76.00	110.037		
12,300.00	6,897.79	7,205.50	6,900.69	157.89	89.23	-88.50	-612.14	3,782.57	8,461.58	8,385.46	76.11	111.169		
12,400.00	6,896.71	7,205.21	6,900.40	160.66	89.23	-88.49	-612.13	3,782.57	8,560.18	8,483.95	76.23	112.299		
12,500.00	6,895.63	7,204.92	6,900.10	163.44	89.23	-88.48	-612.13	3,782.58	8,658.82	8,582.48	76.34	113.425		
12,600.00	6,894.55	7,204.63	6,899.82	166.22	89.23	-88.47	-612.13	3,782.58	8,757.49	8,681.03	76.45	114.549		
12,700.00	6,893.47	7,204.34	6,899.53	169.00	89.23	-88.45	-612.13	3,782.58	8,856.18	8,779.62	76.56	115.670		
12,800.00	6,892.39	7,204.06	6,899.24	171.79	89.22	-88.44	-612.13	3,782.58	8,954.91	8,878.23	76.68	116.788		
12,900.00	6,891.32	7,203.77	6,898.96	174.57	89.22	-88.43	-612.13	3,782.58	9,053.66	8,976.88	76.79	117.903		
13,000.00	6,890.24	7,203.49	6,898.67	177.36	89.22	-88.42	-612.12	3,782.59	9,152.45	9,075.55	76.90	119.016		
13,100.00	6,889.16	7,203.21	6,898.39	180.15	89.22	-88.41	-612.12	3,782.59	9,251.25	9,174.24	77.01	120.126		
13,200.00	6,888.08	7,202.92	6,898.11	182.94	89.22	-88.40	-612.12	3,782.59	9,350.09	9,272.96	77.13	121.232		
13,300.00	6,887.00	7,202.65	6,897.83	185.74	89.22	-88.38	-612.12	3,782.59	9,448.95	9,371.71	77.24	122.337		
13,400.00	6,885.92	7,202.00	6,895.19	188.53	89.22	-88.28	-612.11	3,782.61	9,547.83	9,470.49	77.34	123.452		
13,500.00	6,884.84	7,202.00	6,895.19	191.32	89.22	-88.28	-612.11	3,782.61	9,646.73	9,569.28	77.45	124.549		
13,600.00	6,883.77	7,202.00	6,895.19	194.12	89.22	-88.28	-612.11	3,782.61	9,745.66	9,668.09	77.57	125.644		
13,700.00	6,882.69	7,202.00	6,895.19	196.92	89.22	-88.28	-612.11	3,782.61	9,844.61	9,766.93	77.68	126.735		
13,800.00	6,881.61	7,202.00	6,895.19	199.72	89.22	-88.28	-612.11	3,782.61	9,943.58	9,865.79	77.79	127.824		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC Northridge #21-4D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	96.83	-670.40	5,599.37	5,639.58						
100.00	100.00	40.21	40.21	3.28	3.28	96.83	-670.29	5,599.42	5,639.40	5,632.83	6.57	858.885			
200.00	200.00	604.38	602.21	3.34	4.47	96.46	-631.94	5,584.52	5,638.33	5,630.56	7.76	726.341			
300.00	299.98	718.80	715.07	3.44	5.03	44.54	-614.58	5,577.19	5,628.95	5,620.57	8.38	672.010			
400.00	399.84	1,296.90	1,273.17	3.61	9.35	43.65	-479.39	5,519.69	5,611.86	5,599.37	12.49	449.469			
500.00	499.45	1,416.68	1,385.85	3.81	10.55	43.67	-441.99	5,503.83	5,589.03	5,575.27	13.75	406.363			
600.00	598.70	1,516.93	1,480.32	4.06	11.51	43.81	-411.36	5,490.15	5,563.53	5,548.70	14.84	374.954			
700.00	697.47	1,591.44	1,550.74	4.35	12.19	44.07	-389.21	5,480.02	5,535.84	5,520.12	15.72	352.235			
800.00	795.62	1,678.29	1,633.06	4.66	12.96	44.37	-364.12	5,468.36	5,506.03	5,489.34	16.70	329.785			
900.00	893.06	1,744.96	1,696.41	5.01	13.52	44.75	-345.31	5,459.51	5,474.13	5,456.60	17.52	312.398			
961.44	952.51	1,781.58	1,731.28	5.25	13.82	45.02	-335.17	5,454.81	5,453.65	5,435.64	18.01	302.835			
1,000.00	989.71	1,800.00	1,748.84	5.40	13.97	45.01	-330.13	5,452.49	5,440.64	5,422.36	18.28	297.595			
1,100.00	1,086.20	1,867.36	1,813.16	5.81	14.49	44.95	-311.89	5,444.27	5,407.29	5,388.17	19.12	282.847			
1,200.00	1,182.69	1,954.76	1,896.80	6.24	15.15	44.88	-288.71	5,433.98	5,374.39	5,354.29	20.10	267.397			
1,300.00	1,279.18	2,065.12	2,002.57	6.69	15.96	44.80	-260.12	5,420.67	5,341.29	5,320.06	21.23	251.534			
1,400.00	1,375.67	2,205.13	2,136.60	7.15	17.01	44.70	-223.70	5,403.09	5,307.76	5,285.17	22.58	235.034			
1,500.00	1,472.15	2,253.87	2,183.25	7.62	17.36	44.66	-210.99	5,396.97	5,274.16	5,250.82	23.34	225.995			
1,600.00	1,568.64	2,308.90	2,236.03	8.10	17.77	44.62	-196.82	5,390.46	5,241.32	5,217.17	24.14	217.088			
1,700.00	1,665.13	2,382.99	2,307.12	8.59	18.29	44.56	-177.68	5,382.10	5,208.99	5,183.92	25.07	207.769			
1,800.00	1,761.62	2,529.08	2,446.88	9.08	19.36	44.44	-138.57	5,365.42	5,176.49	5,150.00	26.49	195.401			
1,900.00	1,858.11	2,664.95	2,576.35	9.58	20.42	44.30	-100.92	5,348.73	5,143.06	5,115.16	27.90	184.327			
2,000.00	1,954.60	2,821.00	2,723.72	10.08	21.76	44.09	-53.90	5,328.14	5,108.45	5,078.89	29.56	172.823			
2,100.00	2,051.09	2,876.54	2,776.09	10.59	22.25	44.02	-36.94	5,320.78	5,073.87	5,043.38	30.49	166.434			
2,200.00	2,147.57	2,964.32	2,859.18	11.09	22.99	43.90	-10.98	5,309.57	5,039.83	5,008.20	31.63	159.339			
2,300.00	2,244.06	3,090.11	2,978.41	11.61	24.04	43.75	25.52	5,292.96	5,005.48	4,972.44	33.04	151.488			
2,400.00	2,340.55	3,142.36	3,027.84	12.12	24.46	43.68	41.01	5,286.06	4,971.13	4,937.21	33.93	146.529			
2,500.00	2,437.04	3,200.00	3,082.80	12.64	24.92	43.62	56.84	5,278.98	4,937.72	4,902.88	34.84	141.706			
2,600.00	2,533.53	3,262.02	3,142.21	13.15	25.36	43.56	73.09	5,271.71	4,904.99	4,869.24	35.75	137.205			
2,700.00	2,630.02	3,382.85	3,258.00	13.67	26.22	43.45	104.53	5,257.49	4,872.34	4,835.34	37.00	131.673			
2,800.00	2,726.50	3,447.33	3,319.85	14.19	26.66	43.40	121.04	5,249.71	4,839.46	4,801.55	37.91	127.643			
2,900.00	2,822.99	3,503.62	3,374.08	14.72	27.04	43.36	134.74	5,243.36	4,807.38	4,768.61	38.78	123.981			
3,000.00	2,919.48	3,629.44	3,495.59	15.24	27.84	43.28	163.91	5,228.74	4,774.99	4,735.03	39.97	119.470			
3,100.00	3,015.97	3,700.00	3,563.83	15.76	28.28	43.25	180.03	5,220.83	4,743.06	4,702.18	40.88	116.030			
3,200.00	3,112.46	3,954.65	3,807.56	16.29	30.14	43.00	246.55	5,189.60	4,710.49	4,667.57	42.93	109.736			
3,300.00	3,208.95	4,058.89	3,905.47	16.81	31.09	42.82	279.16	5,174.91	4,675.24	4,630.97	44.27	105.604			
3,400.00	3,305.44	4,129.50	3,971.62	17.34	31.74	42.69	301.82	5,165.09	4,640.17	4,594.78	45.38	102.240			
3,500.00	3,401.92	4,185.81	4,024.67	17.87	32.23	42.60	319.16	5,157.62	4,605.79	4,559.41	46.38	99.300			
3,600.00	3,498.41	4,237.45	4,073.58	18.40	32.65	42.52	334.40	5,151.14	4,572.24	4,524.92	47.31	96.635			
3,700.00	3,594.90	4,300.00	4,133.07	18.93	33.14	42.43	352.31	5,143.91	4,539.62	4,491.32	48.30	93.984			
3,800.00	3,691.39	4,406.29	4,233.97	19.46	33.96	42.27	383.50	5,131.91	4,507.35	4,457.78	49.56	90.944			
3,900.00	3,787.88	4,552.98	4,372.70	19.99	35.16	42.03	427.62	5,113.87	4,474.01	4,422.89	51.13	87.508			
4,000.00	3,884.37	4,661.78	4,475.21	20.52	36.11	41.83	461.26	5,099.79	4,440.08	4,387.59	52.49	84.586			
4,100.00	3,980.85	4,811.94	4,615.87	21.05	37.49	41.52	509.69	5,079.50	4,405.66	4,351.47	54.19	81.296			
4,200.00	4,077.34	4,901.88	4,700.62	21.58	38.29	41.36	536.94	5,066.64	4,370.58	4,315.15	55.43	78.843			
4,300.00	4,173.83	4,959.23	4,754.79	22.11	38.78	41.26	553.94	5,058.64	4,335.89	4,279.44	56.45	76.816			
4,390.25	4,260.91	5,013.38	4,806.07	22.59	39.23	41.17	569.83	5,051.48	4,305.24	4,247.87	57.37	75.044			
4,400.00	4,270.32	5,019.76	4,812.12	22.64	39.28	41.11	571.70	5,050.66	4,301.98	4,244.51	57.47	74.855			
4,500.00	4,367.33	5,085.60	4,874.54	23.16	39.81	40.55	590.91	5,042.42	4,270.23	4,211.72	58.51	72.984			
4,600.00	4,465.13	5,153.45	4,939.09	23.65	40.32	40.02	610.21	5,034.35	4,241.67	4,182.15	59.52	71.266			
4,700.00	4,563.60	5,200.00	4,983.64	24.12	40.66	39.59	622.59	5,029.01	4,216.40	4,156.01	60.39	69.815			
4,800.00	4,662.61	5,256.99	5,038.61	24.56	40.99	39.19	636.37	5,023.02	4,194.78	4,133.54	61.24	68.500			
4,900.00	4,762.05	5,300.00	5,080.45	24.98	41.24	38.88	645.53	5,019.09	4,177.15	4,115.14	62.01	67.367			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Northridge #21-4D - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-GYRO-NS														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	5,349.55	5,128.96	25.38	41.46	38.61	654.78	5,015.13	4,163.45	4,100.74	62.71	66.387		
5,100.00	4,961.73	5,400.00	5,178.66	25.76	41.67	38.39	662.75	5,011.69	4,153.68	4,090.27	63.41	65.508		
5,151.69	5,013.42	5,429.46	5,207.78	25.95	41.77	90.18	666.81	5,009.91	4,150.14	4,086.39	63.74	65.109		
5,200.00	5,061.73	5,458.41	5,236.46	26.13	41.87	90.13	670.45	5,008.30	4,147.40	4,083.35	64.05	64.749		
5,300.00	5,161.73	5,523.29	5,300.88	26.49	42.08	90.04	677.44	5,005.13	4,142.45	4,077.75	64.70	64.028		
5,400.00	5,261.73	5,600.00	5,377.19	26.86	42.30	89.94	684.54	5,001.87	4,138.18	4,072.84	65.35	63.325		
5,500.00	5,361.73	5,668.96	5,445.89	27.23	42.49	89.86	690.01	4,999.39	4,134.57	4,068.61	65.97	62.677		
5,600.00	5,461.73	5,737.50	5,514.25	27.60	42.68	89.80	694.57	4,997.41	4,131.70	4,065.13	66.58	62.060		
5,700.00	5,561.73	5,806.08	5,582.70	27.97	42.85	89.74	698.50	4,995.97	4,129.62	4,062.44	67.18	61.473		
5,800.00	5,661.73	5,890.29	5,666.83	28.35	43.06	89.69	702.12	4,994.66	4,128.09	4,060.29	67.80	60.886		
5,900.00	5,761.73	5,986.39	5,762.88	28.72	43.30	89.66	704.42	4,993.43	4,126.82	4,058.38	68.44	60.298		
6,000.00	5,861.73	6,083.29	5,859.77	29.10	43.54	89.65	705.50	4,992.26	4,125.62	4,056.54	69.08	59.721		
6,100.00	5,961.73	6,192.81	5,969.28	29.48	43.81	89.63	706.51	4,990.88	4,124.36	4,054.61	69.75	59.131		
6,200.00	6,061.73	6,303.38	6,079.83	29.86	44.09	89.62	707.51	4,989.19	4,122.84	4,052.41	70.43	58.542		
6,300.00	6,161.73	6,415.57	6,192.00	30.25	44.37	89.60	708.42	4,987.16	4,121.04	4,049.93	71.11	57.955		
6,400.00	6,261.73	6,518.19	6,294.59	30.63	44.64	89.59	709.70	4,985.08	4,119.02	4,047.24	71.78	57.384		
6,451.69	6,313.42	6,561.73	6,338.12	30.83	44.75	89.58	710.44	4,984.24	4,118.03	4,045.92	72.11	57.108		
6,462.97	6,324.70	6,571.24	6,347.62	30.87	44.78	-177.97	710.62	4,984.07	4,117.93	4,045.75	72.18	57.051	CC, ES	
6,500.00	6,361.68	6,602.95	6,379.32	31.01	44.86	-177.97	711.26	4,983.52	4,119.03	4,046.62	72.41	56.884		
6,550.00	6,411.34	6,654.23	6,430.58	31.20	45.00	-177.98	712.41	4,982.66	4,123.94	4,051.22	72.73	56.705		
6,600.00	6,460.39	6,704.94	6,481.26	31.38	45.13	-177.97	713.69	4,981.79	4,132.72	4,059.70	73.03	56.591		
6,650.00	6,508.54	6,749.14	6,525.45	31.58	45.25	-177.95	714.86	4,981.05	4,145.36	4,072.05	73.31	56.549	SF	
6,700.00	6,555.48	6,792.77	6,569.06	31.78	45.37	-177.92	716.02	4,980.35	4,161.78	4,088.22	73.57	56.572		
6,750.00	6,600.93	6,838.03	6,614.29	31.98	45.49	-177.88	717.23	4,979.66	4,181.89	4,108.07	73.82	56.652		
6,800.00	6,644.61	6,882.17	6,658.41	32.20	45.61	-177.82	718.41	4,978.98	4,205.52	4,131.47	74.05	56.794		
6,850.00	6,686.25	6,933.82	6,710.03	32.44	45.75	-177.75	719.85	4,978.14	4,232.50	4,158.22	74.28	56.978		
6,900.00	6,725.58	6,989.53	6,765.71	32.68	45.90	-177.66	721.61	4,977.05	4,262.57	4,188.05	74.51	57.205		
6,950.00	6,762.38	7,042.45	6,818.58	32.96	46.05	-177.56	723.51	4,975.81	4,295.53	4,220.80	74.72	57.485		
7,000.00	6,796.41	7,091.94	6,868.01	33.25	46.19	-177.43	725.51	4,974.48	4,331.22	4,256.30	74.91	57.815		
7,050.00	6,827.46	7,127.88	6,903.90	33.58	46.30	-177.24	727.11	4,973.43	4,369.47	4,294.40	75.06	58.210		
7,100.00	6,855.34	7,158.48	6,934.45	33.93	46.39	-176.98	728.60	4,972.52	4,410.11	4,334.92	75.19	58.655		
7,150.00	6,879.88	7,185.64	6,961.56	34.33	46.47	-176.64	730.00	4,971.70	4,452.90	4,377.61	75.29	59.141		
7,200.00	6,900.93	7,209.17	6,985.05	34.76	46.54	-176.15	731.29	4,970.99	4,497.57	4,422.20	75.38	59.667		
7,250.00	6,918.36	7,223.19	6,999.03	35.23	46.58	-175.39	732.09	4,970.57	4,543.88	4,468.45	75.43	60.236		
7,300.00	6,932.05	7,235.84	7,011.65	35.74	46.62	-174.18	732.84	4,970.20	4,591.53	4,516.05	75.48	60.831		
7,350.00	6,941.94	7,245.25	7,021.05	36.29	46.64	-171.92	733.40	4,969.93	4,640.22	4,564.71	75.51	61.450		
7,400.00	6,947.94	7,251.39	7,027.17	36.87	46.66	-166.48	733.78	4,969.75	4,689.64	4,614.11	75.53	62.088		
7,450.00	6,950.04	7,254.23	7,030.01	37.47	46.67	-139.40	733.95	4,969.67	4,739.49	4,663.95	75.54	62.738		
7,458.56	6,950.00	7,254.39	7,030.16	37.58	46.67	-122.88	733.96	4,969.66	4,748.04	4,672.50	75.55	62.850		
7,500.00	6,949.56	7,254.91	7,030.68	38.11	46.67	-123.06	733.99	4,969.65	4,789.47	4,713.92	75.55	63.395		
7,600.00	6,948.48	7,256.16	7,031.93	39.51	46.68	-123.49	734.07	4,969.61	4,889.42	4,813.86	75.56	64.708		
7,700.00	6,947.40	7,257.40	7,033.17	41.06	46.68	-123.91	734.15	4,969.58	4,989.38	4,913.80	75.57	66.020		
7,800.00	6,946.32	7,258.63	7,034.40	42.74	46.68	-124.32	734.22	4,969.54	5,089.33	5,013.75	75.59	67.331		
7,900.00	6,945.24	7,259.86	7,035.62	44.55	46.69	-124.73	734.30	4,969.51	5,189.29	5,113.69	75.60	68.641		
8,000.00	6,944.16	7,261.07	7,036.83	46.46	46.69	-125.13	734.38	4,969.47	5,289.25	5,213.63	75.62	69.949		
8,100.00	6,943.08	7,262.28	7,038.04	48.47	46.70	-125.52	734.45	4,969.44	5,389.21	5,313.58	75.63	71.255		
8,200.00	6,942.01	7,263.48	7,039.23	50.55	46.70	-125.91	734.53	4,969.41	5,489.17	5,413.52	75.65	72.561		
8,300.00	6,940.93	7,264.67	7,040.42	52.71	46.70	-126.29	734.60	4,969.37	5,589.14	5,513.47	75.67	73.864		
8,400.00	6,939.85	7,265.85	7,041.60	54.93	46.71	-126.67	734.67	4,969.34	5,689.10	5,613.41	75.69	75.166		
8,500.00	6,938.77	7,267.02	7,042.77	57.20	46.71	-127.04	734.75	4,969.31	5,789.07	5,713.36	75.71	76.467		
8,600.00	6,937.69	7,268.19	7,043.93	59.53	46.71	-127.40	734.82	4,969.28	5,889.03	5,813.30	75.73	77.766		
8,700.00	6,936.61	7,269.35	7,045.09	61.89	46.72	-127.76	734.90	4,969.24	5,989.00	5,913.25	75.75	79.063		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC Northridge #21-4D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,800.00	6,935.54	7,270.49	7,046.23	64.30	46.72	-128.12	734.97	4,969.21	6,088.97	6,013.19	75.77	80.358			
8,900.00	6,934.46	7,271.64	7,047.37	66.74	46.72	-128.47	735.04	4,969.18	6,188.94	6,113.14	75.80	81.651			
9,000.00	6,933.38	7,272.77	7,048.50	69.21	46.73	-128.81	735.11	4,969.15	6,288.90	6,213.08	75.82	82.943			
9,100.00	6,932.30	7,273.89	7,049.62	71.71	46.73	-129.15	735.19	4,969.12	6,388.87	6,313.03	75.85	84.232			
9,200.00	6,931.22	7,275.01	7,050.74	74.23	46.73	-129.48	735.26	4,969.09	6,488.84	6,412.97	75.88	85.520			
9,300.00	6,930.14	7,276.12	7,051.85	76.78	46.74	-129.81	735.33	4,969.06	6,588.82	6,512.91	75.90	86.805			
9,400.00	6,929.06	7,277.22	7,052.95	79.34	46.74	-130.13	735.40	4,969.02	6,688.79	6,612.86	75.93	88.089			
9,500.00	6,927.99	7,278.32	7,054.04	81.93	46.74	-130.45	735.47	4,968.99	6,788.76	6,712.80	75.96	89.370			
9,600.00	6,926.91	7,279.41	7,055.12	84.53	46.75	-130.77	735.54	4,968.96	6,888.73	6,812.74	75.99	90.649			
9,700.00	6,925.83	7,280.49	7,056.20	87.14	46.75	-131.08	735.61	4,968.94	6,988.71	6,912.68	76.03	91.926			
9,800.00	6,924.75	7,281.56	7,057.27	89.77	46.75	-131.38	735.68	4,968.91	7,088.68	7,012.62	76.06	93.200			
9,900.00	6,923.67	7,282.63	7,058.33	92.41	46.76	-131.68	735.75	4,968.88	7,188.66	7,112.56	76.09	94.472			
10,000.00	6,922.59	7,283.68	7,059.39	95.07	46.76	-131.98	735.82	4,968.85	7,288.63	7,212.50	76.13	95.742			
10,100.00	6,921.51	7,284.74	7,060.44	97.73	46.76	-132.27	735.89	4,968.82	7,388.61	7,312.44	76.16	97.009			
10,200.00	6,920.44	7,285.78	7,061.48	100.40	46.77	-132.56	735.95	4,968.79	7,488.58	7,412.38	76.20	98.274			
10,300.00	6,919.36	7,286.82	7,062.52	103.08	46.77	-132.84	736.02	4,968.76	7,588.56	7,512.32	76.24	99.536			
10,400.00	6,918.28	7,287.85	7,063.55	105.77	46.77	-133.12	736.09	4,968.73	7,688.54	7,612.26	76.28	100.796			
10,500.00	6,917.20	7,288.88	7,064.57	108.47	46.78	-133.39	736.16	4,968.71	7,788.51	7,712.19	76.32	102.053			
10,600.00	6,916.12	7,289.89	7,065.58	111.18	46.78	-133.66	736.22	4,968.68	7,888.49	7,812.13	76.36	103.307			
10,700.00	6,915.04	7,290.90	7,066.59	113.89	46.78	-133.93	736.29	4,968.65	7,988.47	7,912.07	76.40	104.559			
10,800.00	6,913.96	7,291.91	7,067.59	116.61	46.78	-134.20	736.36	4,968.62	8,088.45	8,012.00	76.44	105.808			
10,900.00	6,912.89	7,292.91	7,068.59	119.33	46.79	-134.46	736.42	4,968.60	8,188.43	8,111.94	76.49	107.054			
11,000.00	6,911.81	7,293.90	7,069.58	122.06	46.79	-134.71	736.49	4,968.57	8,288.41	8,211.87	76.53	108.298			
11,100.00	6,910.73	7,300.00	7,075.66	124.79	46.81	-136.25	736.90	4,968.41	8,388.39	8,311.80	76.59	109.523			
11,200.00	6,909.65	7,300.00	7,075.66	127.53	46.81	-136.25	736.90	4,968.41	8,488.37	8,411.73	76.63	110.764			
11,300.00	6,908.57	7,300.00	7,075.66	130.27	46.81	-136.25	736.90	4,968.41	8,588.35	8,511.66	76.68	112.001			
11,400.00	6,907.49	7,300.00	7,075.66	133.02	46.81	-136.25	736.90	4,968.41	8,688.33	8,611.60	76.73	113.236			
11,500.00	6,906.41	7,300.00	7,075.66	135.77	46.81	-136.25	736.90	4,968.41	8,788.31	8,711.53	76.78	114.467			
11,600.00	6,905.34	7,300.00	7,075.66	138.52	46.81	-136.25	736.90	4,968.41	8,888.29	8,811.46	76.82	115.695			
11,700.00	6,904.26	7,300.00	7,075.66	141.28	46.81	-136.25	736.90	4,968.41	8,988.27	8,911.39	76.87	116.921			
11,800.00	6,903.18	7,300.00	7,075.66	144.04	46.81	-136.25	736.90	4,968.41	9,088.25	9,011.32	76.93	118.143			
11,900.00	6,902.10	7,300.00	7,075.66	146.80	46.81	-136.25	736.90	4,968.41	9,188.23	9,111.26	76.98	119.362			
12,000.00	6,901.02	7,300.00	7,075.66	149.57	46.81	-136.25	736.90	4,968.41	9,288.22	9,211.18	77.03	120.578			
12,100.00	6,899.94	7,300.00	7,075.66	152.34	46.81	-136.25	736.90	4,968.41	9,388.20	9,311.11	77.08	121.791			
12,200.00	6,898.87	7,300.00	7,075.66	155.11	46.81	-136.25	736.90	4,968.41	9,488.18	9,411.04	77.14	123.001			
12,300.00	6,897.79	7,300.00	7,075.66	157.89	46.81	-136.25	736.90	4,968.41	9,588.17	9,510.97	77.20	124.207			
12,400.00	6,896.71	7,300.00	7,075.66	160.66	46.81	-136.25	736.90	4,968.41	9,688.15	9,610.90	77.25	125.410			
12,500.00	6,895.63	7,300.00	7,075.66	163.44	46.81	-136.25	736.90	4,968.41	9,788.13	9,710.82	77.31	126.610			
12,600.00	6,894.55	7,300.00	7,075.66	166.22	46.81	-136.25	736.90	4,968.41	9,888.12	9,810.75	77.37	127.806			
12,700.00	6,893.47	7,300.00	7,075.66	169.00	46.81	-136.25	736.90	4,968.41	9,988.10	9,910.68	77.43	128.999			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC Northridge #22-4D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 1304-MWD+IFR1														Offset Well Error:	3.28 ft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	97.28	-711.94	5,575.71	5,621.20						
100.00	100.00	54.04	54.04	3.28	3.28	97.28	-711.92	5,575.70	5,620.96	5,614.40	6.57	855.961			
200.00	200.00	162.13	162.13	3.34	3.30	97.27	-711.77	5,575.56	5,620.82	5,614.18	6.64	846.983			
300.00	299.98	270.19	270.19	3.44	3.33	45.42	-711.47	5,575.28	5,619.31	5,612.53	6.78	829.134			
400.00	399.84	378.11	378.11	3.61	3.38	45.51	-711.02	5,574.87	5,615.20	5,608.22	6.99	803.797			
500.00	499.45	485.77	485.76	3.81	3.45	45.67	-710.43	5,574.32	5,608.52	5,601.26	7.26	772.967			
600.00	598.70	593.02	593.01	4.06	3.53	45.89	-709.69	5,573.64	5,599.26	5,591.68	7.58	738.631			
700.00	697.47	699.73	699.71	4.35	3.62	46.18	-708.80	5,572.83	5,587.47	5,579.52	7.95	702.466			
800.00	795.62	805.78	805.75	4.66	3.73	46.53	-707.78	5,571.89	5,573.17	5,564.80	8.37	665.758			
900.00	893.06	911.02	910.99	5.01	3.84	46.95	-706.62	5,570.82	5,565.39	5,547.56	8.83	629.420			
961.44	952.51	975.23	975.19	5.25	3.92	47.24	-705.85	5,570.11	5,544.87	5,535.74	9.13	607.492			
1,000.00	989.71	1,015.41	1,015.36	5.40	3.97	47.32	-705.34	5,569.64	5,537.35	5,528.03	9.32	594.103			
1,100.00	1,086.20	1,119.61	1,119.54	5.81	4.10	47.52	-703.91	5,568.33	5,517.79	5,507.96	9.84	560.907			
1,200.00	1,182.69	1,223.78	1,223.69	6.24	4.24	47.72	-702.35	5,566.89	5,498.16	5,487.78	10.38	529.702			
1,300.00	1,279.18	1,329.65	1,329.54	6.69	4.43	47.92	-700.62	5,565.30	5,478.44	5,467.46	10.98	498.775			
1,400.00	1,375.67	1,429.70	1,429.55	7.15	4.74	48.12	-698.97	5,563.60	5,458.60	5,446.88	11.72	465.844			
1,500.00	1,472.15	1,514.58	1,514.42	7.62	5.01	48.28	-697.89	5,562.24	5,438.96	5,426.53	12.43	437.478			
1,600.00	1,568.64	1,626.92	1,626.74	8.10	5.40	48.51	-696.59	5,560.47	5,419.45	5,406.19	13.26	408.740			
1,700.00	1,665.13	1,762.43	1,762.20	8.59	5.88	48.80	-695.70	5,557.29	5,399.30	5,385.11	14.19	380.593			
1,800.00	1,761.62	1,846.56	1,846.31	9.08	6.18	48.98	-695.60	5,555.05	5,379.03	5,364.07	14.96	359.669			
1,900.00	1,858.11	3,127.23	3,109.06	9.58	11.58	52.45	-711.65	5,374.38	5,345.31	5,325.21	20.10	265.963			
2,000.00	1,954.60	3,311.55	3,286.78	10.08	12.49	53.07	-715.83	5,325.76	5,303.43	5,282.14	21.28	249.199			
2,100.00	2,051.09	3,365.00	3,338.45	10.59	12.75	53.24	-716.32	5,312.08	5,262.31	5,240.32	21.99	239.269			
2,200.00	2,147.57	3,365.00	3,338.45	11.09	12.75	53.24	-716.32	5,312.08	5,221.92	5,199.40	22.52	231.888			
2,300.00	2,244.06	3,422.62	3,394.35	11.61	13.04	53.43	-717.20	5,298.10	5,182.61	5,159.35	23.26	222.789			
2,400.00	2,340.55	3,692.73	3,655.36	12.12	14.40	54.41	-725.22	5,229.16	5,143.21	5,118.43	24.78	207.550			
2,500.00	2,437.04	3,817.12	3,774.67	12.64	15.06	54.89	-729.63	5,194.27	5,101.16	5,075.38	25.78	197.866			
2,600.00	2,533.53	3,993.55	3,942.97	13.15	16.02	55.60	-736.61	5,141.81	5,057.55	5,030.57	26.97	187.499			
2,700.00	2,630.02	4,021.00	3,969.12	13.67	16.17	55.71	-737.58	5,133.51	5,014.23	4,986.58	27.65	181.374			
2,800.00	2,726.50	4,064.95	4,011.11	14.19	16.41	55.89	-739.20	5,120.65	4,971.84	4,943.45	28.38	175.178			
2,900.00	2,822.99	4,115.00	4,059.22	14.72	16.68	56.10	-741.23	5,107.00	4,930.92	4,901.78	29.14	169.187			
3,000.00	2,919.48	4,115.00	4,059.22	15.24	16.68	56.10	-741.23	5,107.00	4,890.88	4,861.15	29.74	164.466			
3,100.00	3,015.97	4,159.54	4,102.24	15.76	16.91	56.28	-743.06	5,095.58	4,852.12	4,821.63	30.49	159.138			
3,200.00	3,112.46	4,208.00	4,149.19	16.29	17.17	56.48	-744.91	5,083.77	4,814.43	4,783.17	31.26	154.011			
3,300.00	3,208.95	4,238.92	4,179.24	16.81	17.32	56.61	-746.05	5,076.55	4,777.77	4,745.80	31.97	149.438			
3,400.00	3,305.44	4,279.14	4,218.40	17.34	17.53	56.77	-747.52	5,067.53	4,742.21	4,709.49	32.72	144.940			
3,500.00	3,401.92	4,302.00	4,240.71	17.87	17.65	56.86	-748.36	5,062.58	4,707.81	4,674.40	33.41	140.924			
3,600.00	3,498.41	4,359.04	4,296.49	18.40	17.93	57.09	-750.35	5,050.88	4,674.40	4,640.18	34.22	136.616			
3,700.00	3,594.90	4,396.00	4,332.75	18.93	18.11	57.24	-751.55	5,043.79	4,642.19	4,607.24	34.96	132.801			
3,800.00	3,691.39	4,458.86	4,394.54	19.46	18.42	57.48	-753.40	5,032.34	4,610.93	4,575.15	35.79	128.843			
3,900.00	3,787.88	4,490.00	4,425.18	19.99	18.57	57.60	-754.23	5,026.87	4,580.62	4,544.11	36.51	125.468			
4,000.00	3,884.37	4,547.71	4,482.08	20.52	18.85	57.83	-755.65	5,017.38	4,551.29	4,513.97	37.32	121.948			
4,100.00	3,980.85	4,583.00	4,516.97	21.05	19.01	57.96	-756.45	5,012.09	4,523.27	4,485.21	38.06	118.857			
4,200.00	4,077.34	4,619.33	4,552.95	21.58	19.18	58.10	-757.20	5,007.13	4,496.56	4,457.77	38.79	115.921			
4,300.00	4,173.83	4,677.00	4,610.22	22.11	19.44	58.31	-758.23	5,000.44	4,471.44	4,431.84	39.60	112.917			
4,390.25	4,260.91	4,677.00	4,610.22	22.59	19.44	58.31	-758.23	5,000.44	4,449.63	4,409.49	40.14	110.857			
4,400.00	4,270.32	4,691.49	4,624.63	22.64	19.50	58.32	-758.46	4,998.97	4,447.35	4,407.10	40.25	110.497			
4,500.00	4,367.33	4,747.86	4,680.74	23.16	19.75	58.12	-759.02	4,993.65	4,425.58	4,384.55	41.03	107.854			
4,600.00	4,465.13	4,798.59	4,731.30	23.65	19.97	57.93	-759.11	4,989.48	4,406.60	4,364.83	41.77	105.492			
4,700.00	4,563.60	4,864.00	4,796.57	24.12	20.25	57.79	-758.49	4,985.28	4,390.68	4,348.14	42.54	103.216			
4,800.00	4,662.61	4,893.35	4,825.88	24.56	20.37	57.61	-758.04	4,983.82	4,377.61	4,334.47	43.15	101.462			
4,900.00	4,762.05	4,958.00	4,890.48	24.98	20.64	57.51	-757.20	4,981.30	4,367.72	4,323.86	43.86	99.588			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 1304-MWD+IFR1													Offset Well Error:	3.28 ft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,999.96	4,932.42	25.38	20.81	57.43	-756.79	4,980.10	4,360.66	4,316.20	44.46	98.084		
5,100.00	4,961.73	5,065.90	4,998.34	25.76	21.08	57.38	-756.38	4,978.60	4,356.39	4,311.26	45.13	96.533		
5,151.69	5,013.42	5,065.90	4,998.34	25.95	21.08	109.26	-756.38	4,978.60	4,355.42	4,310.09	45.33	96.086		
5,186.61	5,048.34	5,065.90	4,998.34	26.08	21.08	109.26	-756.38	4,978.60	4,355.28	4,309.82	45.46	95.808 CC		
5,200.00	5,061.73	5,065.90	4,998.34	26.13	21.08	109.26	-756.38	4,978.60	4,355.30	4,309.79	45.51	95.705 ES		
5,300.00	5,161.73	5,065.90	4,998.34	26.49	21.08	109.26	-756.38	4,978.60	4,356.75	4,310.89	45.86	94.996		
5,400.00	5,261.73	5,065.90	4,998.34	26.86	21.08	109.26	-756.38	4,978.60	4,360.50	4,314.31	46.20	94.392		
5,500.00	5,361.73	5,065.90	4,998.34	27.23	21.08	109.26	-756.38	4,978.60	4,366.54	4,320.03	46.51	93.890		
5,600.00	5,461.73	5,065.90	4,998.34	27.60	21.08	109.26	-756.38	4,978.60	4,374.85	4,328.06	46.80	93.488		
5,700.00	5,561.73	5,065.90	4,998.34	27.97	21.08	109.26	-756.38	4,978.60	4,385.43	4,338.37	47.06	93.185		
5,800.00	5,661.73	5,065.90	4,998.34	28.35	21.08	109.26	-756.38	4,978.60	4,398.26	4,350.96	47.30	92.977		
5,900.00	5,761.73	5,065.90	4,998.34	28.72	21.08	109.26	-756.38	4,978.60	4,413.32	4,365.79	47.53	92.863		
6,000.00	5,861.73	5,065.90	4,998.34	29.10	21.08	109.26	-756.38	4,978.60	4,430.58	4,382.86	47.72	92.840 SF		
6,100.00	5,961.73	5,065.90	4,998.34	29.48	21.08	109.26	-756.38	4,978.60	4,450.03	4,402.13	47.90	92.907		
6,200.00	6,061.73	5,065.90	4,998.34	29.86	21.08	109.26	-756.38	4,978.60	4,471.62	4,423.57	48.05	93.062		
6,300.00	6,161.73	5,065.90	4,998.34	30.25	21.08	109.26	-756.38	4,978.60	4,495.34	4,447.16	48.18	93.301		
6,400.00	6,261.73	5,065.90	4,998.34	30.63	21.08	109.26	-756.38	4,978.60	4,521.15	4,472.86	48.29	93.624		
6,451.69	6,313.42	5,065.90	4,998.34	30.83	21.08	109.26	-756.38	4,978.60	4,535.29	4,486.95	48.34	93.823		
6,500.00	6,361.68	5,065.90	4,998.34	31.01	21.08	-157.74	-756.38	4,978.60	4,550.62	4,502.25	48.37	94.072		
6,550.00	6,411.34	5,065.90	4,998.34	31.20	21.08	-157.00	-756.38	4,978.60	4,570.29	4,521.90	48.40	94.434		
6,600.00	6,460.39	5,065.90	4,998.34	31.38	21.08	-156.05	-756.38	4,978.60	4,593.67	4,545.26	48.41	94.894		
6,650.00	6,508.54	5,065.90	4,998.34	31.58	21.08	-154.85	-756.38	4,978.60	4,620.55	4,572.14	48.41	95.444		
6,700.00	6,555.48	5,065.90	4,998.34	31.78	21.08	-153.37	-756.38	4,978.60	4,650.71	4,602.31	48.41	96.077		
6,750.00	6,600.93	5,065.90	4,998.34	31.98	21.08	-151.52	-756.38	4,978.60	4,683.91	4,635.51	48.40	96.784		
6,800.00	6,644.61	5,065.90	4,998.34	32.20	21.08	-149.21	-756.38	4,978.60	4,719.87	4,671.49	48.38	97.555		
6,850.00	6,686.25	5,065.90	4,998.34	32.44	21.08	-146.32	-756.38	4,978.60	4,758.32	4,709.95	48.37	98.380		
6,900.00	6,725.58	5,065.90	4,998.34	32.68	21.08	-142.67	-756.38	4,978.60	4,798.96	4,750.60	48.35	99.247		
6,950.00	6,762.38	5,065.90	4,998.34	32.96	21.08	-138.02	-756.38	4,978.60	4,841.48	4,793.14	48.34	100.145		
7,000.00	6,796.41	5,065.90	4,998.34	33.25	21.08	-132.06	-756.38	4,978.60	4,885.59	4,837.25	48.34	101.063		
7,050.00	6,827.46	5,065.90	4,998.34	33.58	21.08	-124.42	-756.38	4,978.60	4,930.97	4,882.62	48.35	101.987		
7,100.00	6,855.34	5,065.90	4,998.34	33.93	21.08	-114.78	-756.38	4,978.60	4,977.30	4,928.93	48.37	102.906		
7,150.00	6,879.88	5,065.90	4,998.34	34.33	21.08	-103.09	-756.38	4,978.60	5,024.29	4,975.89	48.40	103.808		
7,200.00	6,900.93	5,065.90	4,998.34	34.76	21.08	-89.98	-756.38	4,978.60	5,071.62	5,023.18	48.45	104.683		
7,250.00	6,918.36	5,065.90	4,998.34	35.23	21.08	-76.74	-756.38	4,978.60	5,119.01	5,070.50	48.51	105.519		
7,300.00	6,932.05	5,065.90	4,998.34	35.74	21.08	-64.73	-756.38	4,978.60	5,166.15	5,117.56	48.60	106.307		
7,350.00	6,941.94	5,065.90	4,998.34	36.29	21.08	-54.71	-756.38	4,978.60	5,212.78	5,164.08	48.70	107.038		
7,400.00	6,947.94	5,065.90	4,998.34	36.87	21.08	-46.72	-756.38	4,978.60	5,258.62	5,209.79	48.82	107.704		
7,450.00	6,950.04	5,065.90	4,998.34	37.47	21.08	-40.46	-756.38	4,978.60	5,303.40	5,254.43	48.97	108.299		
7,458.56	6,950.00	5,065.90	4,998.34	37.58	21.08	-39.54	-756.38	4,978.60	5,310.95	5,261.95	48.99	108.399		
7,500.00	6,949.56	5,065.90	4,998.34	38.11	21.08	-39.54	-756.38	4,978.60	5,347.41	5,298.28	49.13	108.840		
7,600.00	6,948.48	5,065.90	4,998.34	39.51	21.08	-39.54	-756.38	4,978.60	5,435.71	5,386.24	49.47	109.884		
7,700.00	6,947.40	5,065.90	4,998.34	41.06	21.08	-39.54	-756.38	4,978.60	5,524.40	5,474.59	49.81	110.907		
7,800.00	6,946.32	5,065.90	4,998.34	42.74	21.08	-39.54	-756.38	4,978.60	5,613.47	5,563.31	50.16	111.912		
7,900.00	6,945.24	5,065.90	4,998.34	44.55	21.08	-39.54	-756.38	4,978.60	5,702.90	5,652.39	50.51	112.901		
8,000.00	6,944.16	5,065.90	4,998.34	46.46	21.08	-39.54	-756.38	4,978.60	5,792.68	5,741.81	50.87	113.878		
8,100.00	6,943.08	5,065.90	4,998.34	48.47	21.08	-39.54	-756.38	4,978.60	5,882.79	5,831.57	51.22	114.845		
8,200.00	6,942.01	5,065.90	4,998.34	50.55	21.08	-39.54	-756.38	4,978.60	5,973.21	5,921.63	51.58	115.804		
8,300.00	6,940.93	5,065.90	4,998.34	52.71	21.08	-39.54	-756.38	4,978.60	6,063.94	6,012.00	51.94	116.756		
8,400.00	6,939.85	5,065.90	4,998.34	54.93	21.08	-39.54	-756.38	4,978.60	6,154.95	6,102.66	52.29	117.703		
8,500.00	6,938.77	5,065.90	4,998.34	57.20	21.08	-39.54	-756.38	4,978.60	6,246.24	6,193.59	52.65	118.646		
8,600.00	6,937.69	5,065.90	4,998.34	59.53	21.08	-39.54	-756.38	4,978.60	6,337.78	6,284.79	53.00	119.587		
8,700.00	6,936.61	5,065.90	4,998.34	61.89	21.08	-39.54	-756.38	4,978.60	6,429.59	6,376.24	53.35	120.525		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC Northridge #22-4D - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 1304-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,800.00	6,935.54	5,065.90	4,998.34	64.30	21.08	-39.54	-756.38	4,978.60	6,521.63	6,467.94	53.69	121.463			
8,900.00	6,934.46	5,065.90	4,998.34	66.74	21.08	-39.54	-756.38	4,978.60	6,613.90	6,559.87	54.03	122.401			
9,000.00	6,933.38	5,065.90	4,998.34	69.21	21.08	-39.54	-756.38	4,978.60	6,706.40	6,652.02	54.37	123.339			
9,100.00	6,932.30	5,065.90	4,998.34	71.71	21.08	-39.54	-756.38	4,978.60	6,799.10	6,744.40	54.71	124.277			
9,200.00	6,931.22	5,065.90	4,998.34	74.23	21.08	-39.54	-756.38	4,978.60	6,892.02	6,836.98	55.04	125.217			
9,300.00	6,930.14	5,065.90	4,998.34	76.78	21.08	-39.54	-756.38	4,978.60	6,985.12	6,929.76	55.37	126.159			
9,400.00	6,929.06	5,065.90	4,998.34	79.34	21.08	-39.54	-756.38	4,978.60	7,078.42	7,022.73	55.69	127.102			
9,500.00	6,927.99	5,065.90	4,998.34	81.93	21.08	-39.54	-756.38	4,978.60	7,171.89	7,115.88	56.01	128.047			
9,600.00	6,926.91	5,065.90	4,998.34	84.53	21.08	-39.54	-756.38	4,978.60	7,265.54	7,209.22	56.32	128.994			
9,700.00	6,925.83	5,065.90	4,998.34	87.14	21.08	-39.54	-756.38	4,978.60	7,359.36	7,302.73	56.63	129.944			
9,800.00	6,924.75	5,065.90	4,998.34	89.77	21.08	-39.54	-756.38	4,978.60	7,453.34	7,396.40	56.94	130.896			
9,900.00	6,923.67	5,065.90	4,998.34	92.41	21.08	-39.54	-756.38	4,978.60	7,547.47	7,490.23	57.24	131.850			
10,000.00	6,922.59	5,065.90	4,998.34	95.07	21.08	-39.54	-756.38	4,978.60	7,641.75	7,584.21	57.54	132.807			
10,100.00	6,921.51	5,065.90	4,998.34	97.73	21.08	-39.54	-756.38	4,978.60	7,736.18	7,678.34	57.83	133.766			
10,200.00	6,920.44	5,065.90	4,998.34	100.40	21.08	-39.54	-756.38	4,978.60	7,830.74	7,772.62	58.12	134.728			
10,300.00	6,919.36	5,065.90	4,998.34	103.08	21.08	-39.54	-756.38	4,978.60	7,925.44	7,867.03	58.41	135.692			
10,400.00	6,918.28	5,065.90	4,998.34	105.77	21.08	-39.54	-756.38	4,978.60	8,020.26	7,961.58	58.69	136.658			
10,500.00	6,917.20	5,065.90	4,998.34	108.47	21.08	-39.54	-756.38	4,978.60	8,115.21	8,056.25	58.97	137.627			
10,600.00	6,916.12	5,065.90	4,998.34	111.18	21.08	-39.54	-756.38	4,978.60	8,210.28	8,151.05	59.24	138.598			
10,700.00	6,915.04	5,065.90	4,998.34	113.89	21.08	-39.54	-756.38	4,978.60	8,305.47	8,245.96	59.51	139.571			
10,800.00	6,913.96	5,065.90	4,998.34	116.61	21.08	-39.54	-756.38	4,978.60	8,400.77	8,340.99	59.77	140.547			
10,900.00	6,912.89	5,065.90	4,998.34	119.33	21.08	-39.54	-756.38	4,978.60	8,496.17	8,436.14	60.03	141.524			
11,000.00	6,911.81	5,065.90	4,998.34	122.06	21.08	-39.54	-756.38	4,978.60	8,591.68	8,531.39	60.29	142.504			
11,100.00	6,910.73	5,065.90	4,998.34	124.79	21.08	-39.54	-756.38	4,978.60	8,687.29	8,626.75	60.54	143.485			
11,200.00	6,909.65	5,065.90	4,998.34	127.53	21.08	-39.54	-756.38	4,978.60	8,783.00	8,722.21	60.80	144.468			
11,300.00	6,908.57	5,065.90	4,998.34	130.27	21.08	-39.54	-756.38	4,978.60	8,878.81	8,817.76	61.04	145.453			
11,400.00	6,907.49	5,065.90	4,998.34	133.02	21.08	-39.54	-756.38	4,978.60	8,974.70	8,913.41	61.29	146.440			
11,500.00	6,906.41	5,065.90	4,998.34	135.77	21.08	-39.54	-756.38	4,978.60	9,070.68	9,009.16	61.53	147.428			
11,600.00	6,905.34	5,065.90	4,998.34	138.52	21.08	-39.54	-756.38	4,978.60	9,166.75	9,104.99	61.76	148.417			
11,700.00	6,904.26	5,065.90	4,998.34	141.28	21.08	-39.54	-756.38	4,978.60	9,262.91	9,200.91	62.00	149.408			
11,800.00	6,903.18	5,065.90	4,998.34	144.04	21.08	-39.54	-756.38	4,978.60	9,359.14	9,296.91	62.23	150.401			
11,900.00	6,902.10	5,065.90	4,998.34	146.80	21.08	-39.54	-756.38	4,978.60	9,455.45	9,393.00	62.46	151.394			
12,000.00	6,901.02	5,065.90	4,998.34	149.57	21.08	-39.54	-756.38	4,978.60	9,551.84	9,489.16	62.68	152.388			
12,100.00	6,899.94	5,065.90	4,998.34	152.34	21.08	-39.54	-756.38	4,978.60	9,648.30	9,585.40	62.90	153.384			
12,200.00	6,898.87	5,065.90	4,998.34	155.11	21.08	-39.54	-756.38	4,978.60	9,744.83	9,681.71	63.12	154.380			
12,300.00	6,897.79	5,065.90	4,998.34	157.89	21.08	-39.54	-756.38	4,978.60	9,841.43	9,778.09	63.34	155.377			
12,400.00	6,896.71	5,065.90	4,998.34	160.66	21.08	-39.54	-756.38	4,978.60	9,938.10	9,874.55	63.55	156.375			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC Northridge #4AD - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	97.06	-691.90	5,587.40	5,630.30						
100.00	100.00	54.09	54.09	3.28	3.28	97.06	-692.00	5,587.37	5,630.06	5,623.49	6.57	857.355			
200.00	200.00	153.36	153.36	3.34	3.31	97.07	-692.60	5,587.19	5,629.96	5,623.31	6.65	846.984			
300.00	299.98	261.05	261.05	3.44	3.40	45.21	-693.36	5,587.03	5,628.67	5,621.82	6.85	822.067			
400.00	399.84	385.17	385.16	3.61	3.58	45.33	-693.99	5,586.44	5,624.57	5,617.39	7.18	782.971			
500.00	499.45	486.26	486.25	3.81	3.78	45.49	-694.17	5,585.74	5,617.78	5,610.20	7.58	740.910			
600.00	598.70	600.00	1,953.07	4.06	4.91	46.54	-609.94	5,404.33	5,597.83	5,589.65	8.18	684.303			
700.00	697.47	2,244.16	2,212.30	4.35	14.46	47.16	-573.30	5,335.25	5,559.63	5,544.45	15.19	366.043			
800.00	795.62	2,323.14	2,287.62	4.66	15.34	47.85	-561.93	5,314.42	5,519.09	5,503.21	15.88	347.512			
900.00	893.06	2,422.48	2,382.38	5.01	16.45	48.62	-547.59	5,288.28	5,476.48	5,459.76	16.72	327.494			
961.44	952.51	2,506.41	2,462.31	5.25	17.42	49.16	-535.11	5,265.91	5,449.04	5,431.66	17.39	313.417			
1,000.00	989.71	2,538.29	2,492.63	5.40	17.79	49.20	-530.20	5,257.37	5,431.51	5,413.81	17.69	306.961			
1,100.00	1,086.20	1,100.00	2,732.96	5.81	5.92	49.43	-488.06	5,185.90	5,384.61	5,374.67	9.94	541.937			
1,200.00	1,182.69	2,842.38	2,779.78	6.24	21.75	49.48	-479.54	5,171.19	5,336.55	5,316.34	20.21	264.066			
1,300.00	1,279.18	2,900.00	2,834.35	6.69	22.52	49.54	-470.52	5,155.03	5,289.68	5,268.76	20.92	252.844			
1,400.00	1,375.67	2,909.60	2,843.48	7.15	22.64	49.55	-469.10	5,152.42	5,243.38	5,222.02	21.36	245.462			
1,500.00	1,472.15	2,998.29	2,927.86	7.62	23.71	49.66	-456.34	5,128.26	5,197.67	5,175.43	22.25	233.615			
1,600.00	1,568.64	3,100.00	3,024.44	8.10	24.98	49.79	-442.00	5,099.79	5,151.26	5,128.05	23.21	221.905			
1,700.00	1,665.13	3,154.70	3,076.41	8.59	25.63	49.87	-434.28	5,084.58	5,105.32	5,081.38	23.94	213.297			
1,800.00	1,761.62	3,200.00	3,119.67	9.08	26.17	49.93	-427.95	5,072.73	5,060.56	5,035.94	24.62	205.559			
1,900.00	1,858.11	3,247.92	3,165.56	9.58	26.68	49.99	-421.55	5,060.53	5,016.57	4,991.26	25.31	198.209			
2,000.00	1,954.60	3,318.25	3,233.04	10.08	27.41	50.11	-413.06	5,042.61	4,972.92	4,946.81	26.11	190.471			
2,100.00	2,051.09	3,371.52	3,284.28	10.59	27.95	50.20	-407.10	5,029.29	4,929.85	4,903.03	26.82	183.801			
2,200.00	2,147.57	3,430.84	3,341.46	11.09	28.52	50.30	-400.81	5,014.82	4,887.44	4,859.87	27.56	177.330			
2,300.00	2,244.06	3,500.00	3,408.24	11.61	29.17	50.43	-393.85	4,998.24	4,845.53	4,817.19	28.34	170.973			
2,400.00	2,340.55	3,562.95	3,469.10	12.12	29.74	50.55	-387.52	4,983.45	4,804.10	4,775.00	29.10	165.099			
2,500.00	2,437.04	4,063.52	3,946.62	12.64	35.62	51.41	-323.90	4,848.79	4,759.52	4,727.69	31.83	149.533			
2,600.00	2,533.53	4,100.00	3,980.86	13.15	36.16	51.46	-318.08	4,837.63	4,711.02	4,678.48	32.54	144.778			
2,700.00	2,630.02	4,152.41	4,030.24	13.67	36.87	51.54	-310.12	4,821.97	4,663.24	4,629.93	33.31	139.975			
2,800.00	2,726.50	4,200.00	4,075.40	14.19	37.52	51.62	-303.70	4,808.41	4,616.66	4,582.58	34.07	135.504			
2,900.00	2,822.99	4,231.86	4,105.75	14.72	37.90	51.68	-299.59	4,799.61	4,570.95	4,536.20	34.75	131.543			
3,000.00	2,919.48	4,285.64	4,157.02	15.24	38.53	51.78	-292.32	4,785.14	4,526.04	4,490.51	35.52	127.411			
3,100.00	3,015.97	4,675.43	4,524.74	15.76	43.95	52.40	-231.53	4,671.39	4,479.30	4,441.46	37.84	118.382			
3,200.00	3,112.46	4,727.74	4,573.54	16.29	44.79	52.50	-223.39	4,654.40	4,429.10	4,390.45	38.65	114.599			
3,300.00	3,208.95	4,763.43	4,606.96	16.81	45.34	52.56	-217.78	4,643.22	4,379.87	4,340.48	39.39	111.205			
3,400.00	3,305.44	4,800.00	4,641.34	17.34	45.91	52.62	-211.91	4,632.20	4,331.67	4,291.54	40.13	107.943			
3,500.00	3,401.92	4,854.73	4,692.92	17.87	46.66	52.71	-202.92	4,616.26	4,284.33	4,243.37	40.96	104.602			
3,600.00	3,498.41	4,911.74	4,746.75	18.40	47.44	52.80	-193.31	4,600.12	4,237.67	4,195.87	41.80	101.380			
3,700.00	3,594.90	4,974.36	4,805.99	18.93	48.25	52.90	-182.77	4,582.79	4,191.61	4,148.94	42.67	98.241			
3,800.00	3,691.39	5,024.22	4,853.26	19.46	48.86	52.98	-174.49	4,569.29	4,146.19	4,102.72	43.47	95.371			
3,900.00	3,787.88	5,065.48	4,892.54	19.99	49.34	53.04	-167.78	4,558.55	4,101.78	4,057.54	44.24	92.712			
4,000.00	3,884.37	5,100.00	4,925.50	20.52	49.75	53.10	-162.29	4,549.90	4,058.45	4,013.47	44.98	90.222			
4,100.00	3,980.85	5,162.57	4,985.49	21.05	50.38	53.22	-153.16	4,534.66	4,016.00	3,970.20	45.80	87.677			
4,200.00	4,077.34	5,200.00	5,021.52	21.58	50.76	53.30	-148.43	4,525.70	3,974.48	3,927.94	46.53	85.411			
4,300.00	4,173.83	5,233.16	5,053.59	22.11	51.02	53.38	-144.62	4,518.14	3,934.26	3,887.04	47.22	83.312			
4,390.25	4,260.91	5,256.50	5,076.26	22.59	51.20	53.44	-142.12	4,513.20	3,899.33	3,851.50	47.82	81.535			
4,400.00	4,270.32	5,259.04	5,078.73	22.64	51.22	53.38	-141.86	4,512.68	3,895.64	3,847.75	47.89	81.349			
4,500.00	4,367.33	5,300.00	5,118.73	23.16	51.54	52.86	-137.87	4,504.84	3,859.86	3,811.26	48.59	79.434			
4,600.00	4,465.13	5,325.60	5,143.82	23.65	51.69	52.30	-135.60	4,500.29	3,827.43	3,778.21	49.23	77.748			
4,700.00	4,563.60	5,382.00	5,199.19	24.12	52.02	51.96	-131.07	4,490.57	3,798.22	3,748.28	49.94	76.052			
4,800.00	4,662.61	5,427.51	5,243.98	24.56	52.25	51.59	-127.88	4,483.12	3,772.17	3,721.56	50.61	74.534			
4,900.00	4,762.05	5,468.24	5,284.16	24.98	52.44	51.27	-125.34	4,477.01	3,749.66	3,698.41	51.25	73.165			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	5,500.00	5,315.57	25.38	52.59	50.98	-123.56	4,472.63	3,730.80	3,678.95	51.85	71.954		
5,100.00	4,961.73	5,545.73	5,360.90	25.76	52.75	50.75	-121.23	4,467.01	3,715.64	3,663.17	52.47	70.816		
5,151.69	5,013.42	5,565.11	5,380.14	25.95	52.82	102.54	-120.31	4,464.90	3,709.32	3,656.55	52.77	70.292		
5,200.00	5,061.73	5,600.00	5,414.83	26.13	52.94	102.53	-118.77	4,461.51	3,704.19	3,651.09	53.10	69.756		
5,300.00	5,161.73	5,637.56	5,452.21	26.49	53.05	102.52	-117.16	4,458.23	3,694.36	3,640.69	53.67	68.834		
5,400.00	5,261.73	5,700.00	5,514.38	26.86	53.22	102.49	-114.43	4,453.20	3,685.58	3,631.27	54.31	67.857		
5,500.00	5,361.73	5,772.58	5,586.71	27.23	53.41	102.46	-111.28	4,447.99	3,677.66	3,622.67	54.99	66.881		
5,600.00	5,461.73	5,836.71	5,650.65	27.60	53.57	102.43	-108.69	4,443.95	3,670.65	3,615.02	55.63	65.985		
5,700.00	5,561.73	5,900.00	5,713.82	27.97	53.72	102.42	-106.68	4,440.51	3,664.66	3,608.40	56.26	65.139		
5,800.00	5,661.73	5,965.78	5,779.51	28.35	53.87	102.40	-105.23	4,437.45	3,659.63	3,602.74	56.89	64.330		
5,900.00	5,761.73	6,037.69	5,851.36	28.72	54.02	102.40	-104.35	4,434.58	3,655.46	3,597.92	57.53	63.536		
6,000.00	5,861.73	6,116.25	5,929.88	29.10	54.19	102.40	-103.80	4,431.89	3,651.95	3,593.75	58.20	62.749		
6,100.00	5,961.73	6,202.73	6,016.32	29.48	54.37	102.41	-103.55	4,429.24	3,648.90	3,590.01	58.89	61.959		
6,200.00	6,061.73	6,290.29	6,103.83	29.86	54.55	102.42	-103.75	4,426.78	3,646.20	3,586.61	59.59	61.189		
6,300.00	6,161.73	6,374.61	6,188.12	30.25	54.73	102.43	-104.33	4,424.65	3,643.89	3,583.61	60.27	60.458		
6,400.00	6,261.73	6,478.10	6,291.58	30.63	54.95	102.46	-105.35	4,422.24	3,641.82	3,580.79	61.03	59.673		
6,451.69	6,313.42	6,536.67	6,350.13	30.83	55.07	102.47	-106.07	4,420.71	3,640.64	3,579.20	61.44	59.254		
6,467.79	6,329.52	6,555.05	6,368.50	30.89	55.11	-165.07	-106.31	4,420.20	3,640.45	3,578.88	61.57	59.130 CC, ES		
6,500.00	6,361.68	6,591.80	6,405.23	31.01	55.19	-165.05	-106.78	4,419.15	3,641.22	3,579.40	61.82	58.899		
6,550.00	6,411.34	6,639.24	6,452.64	31.20	55.30	-164.95	-107.44	4,417.77	3,645.50	3,583.33	62.17	58.637		
6,600.00	6,460.39	6,684.63	6,498.01	31.38	55.39	-164.78	-108.18	4,416.46	3,653.59	3,591.08	62.51	58.451		
6,650.00	6,508.54	6,737.45	6,550.80	31.58	55.51	-164.53	-109.10	4,414.95	3,665.41	3,602.54	62.87	58.305		
6,700.00	6,555.48	6,793.32	6,606.65	31.78	55.63	-164.21	-109.98	4,413.25	3,680.77	3,617.54	63.23	58.210		
6,750.00	6,600.93	6,846.28	6,659.57	31.98	55.75	-163.78	-110.74	4,411.54	3,699.59	3,636.00	63.58	58.187 SF		
6,800.00	6,644.61	6,897.24	6,710.49	32.20	55.87	-163.25	-111.51	4,409.80	3,721.76	3,657.85	63.92	58.230		
6,850.00	6,686.25	6,929.89	6,743.12	32.44	55.94	-162.55	-112.04	4,408.69	3,747.27	3,683.10	64.17	58.393		
6,900.00	6,725.58	6,959.83	6,773.04	32.68	56.01	-161.67	-112.55	4,407.74	3,776.05	3,711.63	64.41	58.623		
6,950.00	6,762.38	6,987.84	6,801.03	32.96	56.07	-160.57	-113.06	4,406.93	3,807.90	3,743.26	64.64	58.912		
7,000.00	6,796.41	7,027.21	6,840.38	33.25	56.16	-159.27	-113.81	4,405.85	3,842.59	3,777.69	64.90	59.208		
7,050.00	6,827.46	7,074.54	6,887.68	33.58	56.27	-157.72	-114.68	4,404.39	3,879.73	3,814.55	65.19	59.516		
7,100.00	6,855.34	7,157.67	6,970.74	33.93	56.47	-156.07	-116.11	4,401.19	3,919.06	3,853.45	65.61	59.737		
7,150.00	6,879.88	7,150.00	6,991.12	34.33	56.45	-153.46	-116.40	4,400.03	3,960.04	3,894.37	65.68	60.296		
7,200.00	6,900.93	7,224.11	7,037.08	34.76	56.63	-150.39	-117.06	4,397.79	4,003.06	3,937.01	66.05	60.610		
7,250.00	6,918.36	7,235.48	7,048.44	35.23	56.66	-145.82	-117.17	4,397.24	4,047.75	3,981.57	66.18	61.163		
7,300.00	6,932.05	7,244.63	7,057.57	35.74	56.68	-139.49	-117.25	4,396.82	4,093.86	4,027.56	66.30	61.748		
7,350.00	6,941.94	7,251.51	7,064.46	36.29	56.70	-130.54	-117.30	4,396.51	4,141.08	4,074.67	66.41	62.357		
7,400.00	6,947.94	7,256.14	7,069.08	36.87	56.71	-117.86	-117.34	4,396.31	4,189.11	4,122.60	66.51	62.986		
7,450.00	6,950.04	7,258.53	7,071.46	37.47	56.71	-100.89	-117.35	4,396.21	4,237.65	4,171.05	66.60	63.629		
7,458.56	6,950.00	7,258.71	7,071.65	37.58	56.71	-97.63	-117.35	4,396.21	4,245.98	4,179.37	66.61	63.740		
7,500.00	6,949.56	7,259.44	7,072.38	38.11	56.72	-97.68	-117.36	4,396.17	4,286.37	4,219.68	66.68	64.278		
7,600.00	6,948.48	7,261.18	7,074.12	39.51	56.72	-97.78	-117.37	4,396.10	4,383.90	4,317.05	66.86	65.572		
7,700.00	6,947.40	7,262.88	7,075.81	41.06	56.72	-97.88	-117.37	4,396.03	4,481.54	4,414.51	67.03	66.858		
7,800.00	6,946.32	7,264.54	7,077.47	42.74	56.73	-97.98	-117.38	4,395.96	4,579.28	4,512.08	67.21	68.137		
7,900.00	6,945.24	7,266.16	7,079.08	44.55	56.73	-98.07	-117.39	4,395.90	4,677.12	4,609.74	67.38	69.409		
8,000.00	6,944.16	7,267.74	7,080.66	46.46	56.74	-98.17	-117.40	4,395.83	4,775.05	4,707.48	67.56	70.675		
8,100.00	6,943.08	7,269.28	7,082.21	48.47	56.74	-98.26	-117.41	4,395.77	4,873.05	4,805.31	67.74	71.935		
8,200.00	6,942.01	7,270.79	7,083.72	50.55	56.74	-98.35	-117.41	4,395.71	4,971.14	4,903.22	67.92	73.190		
8,300.00	6,940.93	7,272.27	7,085.19	52.71	56.75	-98.43	-117.42	4,395.65	5,069.30	5,001.20	68.10	74.440		
8,400.00	6,939.85	7,273.71	7,086.63	54.93	56.75	-98.52	-117.43	4,395.60	5,167.53	5,099.25	68.28	75.685		
8,500.00	6,938.77	7,275.12	7,088.05	57.20	56.75	-98.60	-117.43	4,395.54	5,265.83	5,197.37	68.45	76.925		
8,600.00	6,937.69	7,276.51	7,089.43	59.53	56.76	-98.68	-117.44	4,395.49	5,364.19	5,295.56	68.63	78.161		
8,700.00	6,936.61	7,277.86	7,090.78	61.89	56.76	-98.76	-117.44	4,395.44	5,462.60	5,393.80	68.80	79.394		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC Northridge #4AD - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,800.00	6,935.54	7,300.00	7,112.91	64.30	56.81	-100.07	-117.48	4,394.64	5,561.16	5,492.11	69.05	80.541			
8,900.00	6,934.46	7,300.00	7,112.91	66.74	56.81	-100.07	-117.48	4,394.64	5,659.67	5,590.46	69.21	81.770			
9,000.00	6,933.38	7,300.00	7,112.91	69.21	56.81	-100.07	-117.48	4,394.64	5,758.24	5,688.86	69.38	82.996			
9,100.00	6,932.30	7,300.00	7,112.91	71.71	56.81	-100.07	-117.48	4,394.64	5,856.86	5,787.31	69.54	84.218			
9,200.00	6,931.22	7,300.00	7,112.91	74.23	56.81	-100.07	-117.48	4,394.64	5,955.52	5,885.81	69.71	85.436			
9,300.00	6,930.14	7,300.00	7,112.91	76.78	56.81	-100.07	-117.48	4,394.64	6,054.22	5,984.36	69.87	86.651			
9,400.00	6,929.06	7,300.00	7,112.91	79.34	56.81	-100.07	-117.48	4,394.64	6,152.97	6,082.94	70.03	87.864			
9,500.00	6,927.99	7,300.00	7,112.91	81.93	56.81	-100.07	-117.48	4,394.64	6,251.76	6,181.57	70.19	89.073			
9,600.00	6,926.91	7,300.00	7,112.91	84.53	56.81	-100.07	-117.48	4,394.64	6,350.58	6,280.24	70.34	90.279			
9,700.00	6,925.83	7,300.00	7,112.91	87.14	56.81	-100.07	-117.48	4,394.64	6,449.45	6,378.95	70.50	91.483			
9,800.00	6,924.75	7,300.00	7,112.91	89.77	56.81	-100.07	-117.48	4,394.64	6,548.34	6,477.69	70.65	92.683			
9,900.00	6,923.67	7,300.00	7,112.91	92.41	56.81	-100.07	-117.48	4,394.64	6,647.27	6,576.47	70.81	93.881			
10,000.00	6,922.59	7,300.00	7,112.91	95.07	56.81	-100.07	-117.48	4,394.64	6,746.23	6,675.27	70.96	95.076			
10,100.00	6,921.51	7,300.00	7,112.91	97.73	56.81	-100.07	-117.48	4,394.64	6,845.22	6,774.12	71.11	96.268			
10,200.00	6,920.44	7,300.00	7,112.91	100.40	56.81	-100.07	-117.48	4,394.64	6,944.24	6,872.99	71.25	97.458			
10,300.00	6,919.36	7,300.00	7,112.91	103.08	56.81	-100.07	-117.48	4,394.64	7,043.29	6,971.89	71.40	98.645			
10,400.00	6,918.28	7,300.00	7,112.91	105.77	56.81	-100.07	-117.48	4,394.64	7,142.36	7,070.82	71.55	99.829			
10,500.00	6,917.20	7,300.00	7,112.91	108.47	56.81	-100.07	-117.48	4,394.64	7,241.46	7,169.77	71.69	101.011			
10,600.00	6,916.12	7,300.00	7,112.91	111.18	56.81	-100.07	-117.48	4,394.64	7,340.59	7,268.75	71.83	102.190			
10,700.00	6,915.04	7,300.00	7,112.91	113.89	56.81	-100.07	-117.48	4,394.64	7,439.73	7,367.76	71.97	103.367			
10,800.00	6,913.96	7,300.00	7,112.91	116.61	56.81	-100.07	-117.48	4,394.64	7,538.90	7,466.79	72.11	104.541			
10,900.00	6,912.89	7,300.00	7,112.91	119.33	56.81	-100.07	-117.48	4,394.64	7,638.10	7,565.84	72.25	105.712			
11,000.00	6,911.81	7,300.00	7,112.91	122.06	56.81	-100.07	-117.48	4,394.64	7,737.31	7,664.92	72.39	106.881			
11,100.00	6,910.73	7,300.00	7,112.91	124.79	56.81	-100.07	-117.48	4,394.64	7,836.54	7,764.01	72.53	108.047			
11,200.00	6,909.65	7,300.00	7,112.91	127.53	56.81	-100.07	-117.48	4,394.64	7,935.79	7,863.13	72.66	109.211			
11,300.00	6,908.57	7,300.00	7,112.91	130.27	56.81	-100.07	-117.48	4,394.64	8,035.06	7,962.26	72.80	110.373			
11,400.00	6,907.49	7,300.00	7,112.91	133.02	56.81	-100.07	-117.48	4,394.64	8,134.35	8,061.42	72.93	111.531			
11,500.00	6,906.41	7,300.00	7,112.91	135.77	56.81	-100.07	-117.48	4,394.64	8,233.66	8,160.59	73.07	112.688			
11,600.00	6,905.34	7,300.00	7,112.91	138.52	56.81	-100.07	-117.48	4,394.64	8,332.98	8,259.78	73.20	113.841			
11,700.00	6,904.26	7,300.00	7,112.91	141.28	56.81	-100.07	-117.48	4,394.64	8,432.32	8,358.99	73.33	114.992			
11,800.00	6,903.18	7,300.00	7,112.91	144.04	56.81	-100.07	-117.48	4,394.64	8,531.67	8,458.21	73.46	116.141			
11,900.00	6,902.10	7,300.00	7,112.91	146.80	56.81	-100.07	-117.48	4,394.64	8,631.04	8,557.45	73.59	117.287			
12,000.00	6,901.02	7,316.65	7,129.55	149.57	56.85	-101.04	-117.48	4,394.10	8,730.39	8,656.62	73.77	118.349			
12,100.00	6,899.94	7,317.85	7,130.75	152.34	56.86	-101.11	-117.48	4,394.06	8,829.79	8,755.89	73.90	119.484			
12,200.00	6,898.87	7,319.04	7,131.94	155.11	56.86	-101.18	-117.48	4,394.02	8,929.19	8,855.16	74.03	120.615			
12,300.00	6,897.79	7,320.22	7,133.11	157.89	56.86	-101.25	-117.48	4,393.99	9,028.61	8,954.45	74.16	121.745			
12,400.00	6,896.71	7,321.38	7,134.28	160.66	56.86	-101.31	-117.48	4,393.95	9,128.04	9,053.75	74.29	122.871			
12,500.00	6,895.63	7,322.54	7,135.43	163.44	56.87	-101.38	-117.48	4,393.91	9,227.48	9,153.07	74.42	123.995			
12,600.00	6,894.55	7,323.68	7,136.57	166.22	56.87	-101.45	-117.48	4,393.88	9,326.94	9,252.39	74.55	125.116			
12,700.00	6,893.47	7,324.81	7,137.70	169.00	56.87	-101.51	-117.48	4,393.84	9,426.41	9,351.73	74.67	126.235			
12,800.00	6,892.39	7,325.93	7,138.83	171.79	56.88	-101.58	-117.48	4,393.81	9,525.88	9,451.08	74.80	127.350			
12,900.00	6,891.32	7,327.04	7,139.93	174.57	56.88	-101.64	-117.48	4,393.77	9,625.37	9,550.44	74.93	128.464			
13,000.00	6,890.24	7,328.14	7,141.03	177.36	56.88	-101.71	-117.47	4,393.74	9,724.87	9,649.82	75.05	129.574			
13,100.00	6,889.16	7,329.23	7,142.12	180.15	56.88	-101.77	-117.47	4,393.70	9,824.38	9,749.20	75.18	130.682			
13,200.00	6,888.08	7,330.31	7,143.20	182.94	56.89	-101.83	-117.47	4,393.67	9,923.89	9,848.59	75.30	131.787			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	1,267.78	1,246.64	3.28	9.87	98.43	-800.52	5,402.55	5,613.34					
100.00	100.00	1,430.03	1,400.99	3.28	11.80	98.77	-827.21	5,360.30	5,589.47	5,576.76	12.71	439.601		
200.00	200.00	1,481.97	1,450.33	3.34	12.43	98.89	-836.07	5,346.70	5,565.71	5,552.53	13.17	422.447		
300.00	299.98	1,537.68	1,503.26	3.44	13.09	47.50	-846.08	5,332.48	5,541.58	5,527.84	13.73	403.545		
400.00	399.84	1,600.00	1,562.62	3.61	13.81	48.06	-857.04	5,317.01	5,515.89	5,501.48	14.41	382.795		
500.00	499.45	1,681.09	1,639.98	3.81	14.71	48.73	-871.13	5,297.21	5,488.44	5,473.16	15.28	359.182		
600.00	598.70	600.00	1,810.77	4.06	3.69	49.80	-901.56	5,252.48	5,458.53	5,450.46	8.07	676.515		
700.00	697.47	1,968.61	1,913.97	4.35	18.01	50.73	-918.42	5,224.04	5,425.09	5,406.88	18.21	297.945		
800.00	795.62	2,031.64	1,974.12	4.66	18.73	51.55	-927.97	5,207.84	5,390.22	5,371.18	19.04	283.137		
900.00	893.06	2,108.85	2,047.79	5.01	19.60	52.50	-939.98	5,188.09	5,353.73	5,333.71	20.02	267.383		
961.44	952.51	2,146.26	2,083.49	5.25	20.02	53.07	-945.92	5,178.60	5,330.58	5,310.01	20.57	259.139		
1,000.00	989.71	2,169.62	2,105.79	5.40	20.29	53.19	-949.64	5,172.72	5,315.94	5,295.02	20.92	254.133		
1,100.00	1,086.20	2,225.09	2,158.76	5.81	20.90	53.45	-958.61	5,158.91	5,278.46	5,256.66	21.79	242.197		
1,200.00	1,182.69	2,275.35	2,206.76	6.24	21.45	53.70	-967.07	5,146.67	5,241.78	5,219.12	22.66	231.335		
1,300.00	1,279.18	2,418.54	2,343.79	6.69	22.97	54.40	-990.00	5,112.01	5,205.57	5,181.28	24.29	214.336		
1,400.00	1,375.67	2,527.33	2,448.06	7.15	24.11	54.92	-1,004.65	5,084.71	5,168.24	5,142.66	25.59	201.999		
1,500.00	1,472.15	2,569.89	2,488.84	7.62	24.56	55.13	-1,010.75	5,074.17	5,131.69	5,105.26	26.43	194.176		
1,600.00	1,568.64	2,849.60	2,755.66	8.10	27.79	56.54	-1,051.89	5,001.11	5,094.73	5,065.51	29.22	174.349		
1,700.00	1,665.13	2,968.69	2,868.52	8.59	29.34	57.17	-1,069.18	4,967.29	5,055.76	5,024.94	30.82	164.027		
1,800.00	1,761.62	3,103.22	2,995.45	9.08	31.22	57.90	-1,089.40	4,927.56	5,016.18	4,983.53	32.65	153.634		
1,900.00	1,858.11	1,900.00	3,091.85	9.58	14.17	58.46	-1,104.19	4,896.56	4,976.17	4,954.72	21.45	232.003		
2,000.00	1,954.60	3,259.66	3,142.97	10.08	33.43	58.75	-1,111.39	4,880.36	4,936.65	4,901.34	35.32	139.781		
2,100.00	2,051.09	3,319.37	3,199.60	10.59	34.24	59.08	-1,119.10	4,863.09	4,898.12	4,861.62	36.49	134.229		
2,200.00	2,147.57	3,421.59	3,296.06	11.09	35.65	59.66	-1,133.99	4,832.70	4,859.58	4,821.49	38.09	127.596		
2,300.00	2,244.06	3,464.49	3,336.55	11.61	36.24	59.91	-1,140.45	4,820.09	4,821.83	4,782.66	39.17	123.093		
2,400.00	2,340.55	3,600.00	3,465.20	12.12	38.01	60.66	-1,157.90	4,781.31	4,784.77	4,743.76	41.00	116.688		
2,500.00	2,437.04	4,064.45	3,899.97	12.64	45.57	63.42	-1,214.45	4,629.92	4,746.98	4,700.83	46.15	102.860		
2,600.00	2,533.53	4,133.54	3,962.82	13.15	47.10	63.90	-1,225.63	4,603.47	4,703.27	4,655.39	47.89	98.214		
2,700.00	2,630.02	4,198.19	4,021.68	13.67	48.55	64.35	-1,236.12	4,578.87	4,660.22	4,610.61	49.62	93.926		
2,800.00	2,726.50	4,231.29	4,051.93	14.19	49.22	64.58	-1,241.36	4,566.51	4,618.11	4,567.22	50.88	90.757		
2,900.00	2,822.99	4,264.20	4,082.20	14.72	49.88	64.81	-1,246.37	4,554.61	4,577.23	4,525.07	52.16	87.751		
3,000.00	2,919.48	4,300.00	4,115.33	15.24	50.59	65.05	-1,251.60	4,542.10	4,537.61	4,484.12	53.49	84.833		
3,100.00	3,015.97	4,412.77	4,219.93	15.76	52.66	65.82	-1,267.28	4,502.98	4,498.48	4,442.81	55.67	80.806		
3,200.00	3,112.46	4,474.59	4,277.10	16.29	53.84	66.25	-1,276.36	4,481.29	4,459.73	4,402.39	57.34	77.782		
3,300.00	3,208.95	4,500.00	4,300.54	16.81	54.32	66.43	-1,280.38	4,472.35	4,421.98	4,363.40	58.58	75.490		
3,400.00	3,305.44	4,558.01	4,354.12	17.34	55.40	66.86	-1,289.98	4,452.29	4,385.26	4,325.00	60.26	72.772		
3,500.00	3,401.92	4,600.00	4,393.03	17.87	56.18	67.16	-1,297.22	4,438.24	4,349.98	4,288.23	61.75	70.442		
3,600.00	3,498.41	4,636.22	4,426.66	18.40	56.79	67.43	-1,303.62	4,426.41	4,316.00	4,252.84	63.16	68.338		
3,700.00	3,594.90	4,678.40	4,465.90	18.93	57.51	67.75	-1,311.24	4,412.93	4,283.30	4,218.65	64.65	66.256		
3,800.00	3,691.39	4,724.29	4,508.70	19.46	58.24	68.09	-1,319.61	4,398.67	4,251.89	4,185.73	66.16	64.268		
3,900.00	3,787.88	4,774.88	4,556.21	19.99	58.99	68.46	-1,328.25	4,383.58	4,221.67	4,153.98	67.69	62.365		
4,000.00	3,884.37	4,837.22	4,615.21	20.52	59.82	68.90	-1,337.87	4,365.90	4,192.56	4,123.28	69.28	60.518		
4,100.00	3,980.85	4,900.00	4,675.06	21.05	60.60	69.33	-1,346.17	4,348.91	4,164.24	4,093.44	70.81	58.812		
4,200.00	4,077.34	4,945.27	4,718.54	21.58	61.03	69.63	-1,351.34	4,337.41	4,137.07	4,065.01	72.06	57.412		
4,300.00	4,173.83	5,000.00	4,771.52	22.11	61.55	69.97	-1,356.73	4,324.78	4,111.37	4,038.00	73.37	56.037		
4,390.25	4,260.91	5,048.46	4,818.62	22.59	61.93	70.27	-1,361.08	4,314.22	4,089.14	4,014.67	74.47	54.907		
4,400.00	4,270.32	5,057.01	4,826.92	22.64	62.00	70.27	-1,361.85	4,312.36	4,086.78	4,012.17	74.61	54.774		
4,500.00	4,367.33	5,126.33	4,894.34	23.16	62.52	70.23	-1,367.97	4,297.38	4,063.49	3,987.61	75.88	53.551		
4,600.00	4,465.13	5,179.03	4,945.77	23.65	62.89	70.10	-1,372.21	4,286.73	4,042.45	3,965.46	76.99	52.504		
4,700.00	4,563.60	5,227.36	4,993.12	24.12	63.18	69.97	-1,375.73	4,277.71	4,023.77	3,945.78	77.99	51.591		
4,800.00	4,662.61	5,273.15	5,038.15	24.56	63.42	69.84	-1,378.70	4,270.00	4,007.60	3,928.70	78.90	50.794		
4,900.00	4,762.05	5,321.47	5,085.85	24.98	63.64	69.74	-1,381.48	4,262.76	3,993.95	3,914.22	79.73	50.092		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 100-GYRO-NS													Offset Well Error:		3.28 ft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	5,372.73	5,136.59	25.38	63.83	69.66	-1,384.06	4,255.98	3,982.74	3,902.26	80.48	49.486			
5,100.00	4,961.73	5,429.68	5,193.11	25.76	64.02	69.60	-1,386.52	4,249.46	3,973.92	3,892.75	81.17	48.958			
5,151.69	5,013.42	5,462.23	5,225.47	25.95	64.11	121.46	-1,387.74	4,246.11	3,970.22	3,888.72	81.50	48.714			
5,200.00	5,061.73	5,500.00	5,263.05	26.13	64.22	121.51	-1,389.00	4,242.56	3,967.15	3,885.33	81.82	48.489			
5,300.00	5,161.73	5,556.77	5,319.59	26.49	64.35	121.56	-1,390.66	4,237.78	3,961.44	3,879.05	82.39	48.079			
5,400.00	5,261.73	5,620.67	5,383.30	26.86	64.49	121.62	-1,392.33	4,233.17	3,956.65	3,873.68	82.97	47.687			
5,500.00	5,361.73	5,683.92	5,446.42	27.23	64.62	121.67	-1,393.82	4,229.37	3,952.77	3,869.25	83.53	47.323			
5,600.00	5,461.73	5,745.35	5,507.77	27.60	64.73	121.70	-1,395.04	4,226.51	3,949.85	3,865.79	84.06	46.987			
5,700.00	5,561.73	5,808.87	5,571.25	27.97	64.84	121.73	-1,395.77	4,224.62	3,947.91	3,863.33	84.58	46.675			
5,800.00	5,661.73	5,895.86	5,658.23	28.35	64.98	121.75	-1,396.30	4,222.92	3,946.57	3,861.44	85.13	46.360			
5,900.00	5,761.73	5,974.72	5,737.08	28.72	65.11	121.76	-1,396.62	4,221.87	3,945.65	3,859.99	85.66	46.063			
6,000.00	5,861.73	6,065.33	5,827.69	29.10	65.26	121.77	-1,396.95	4,221.17	3,945.18	3,858.97	86.21	45.764			
6,100.00	5,961.73	6,157.04	5,919.40	29.48	65.41	121.77	-1,397.28	4,220.62	3,944.86	3,858.10	86.76	45.468			
6,170.90	6,032.62	6,220.27	5,982.62	29.75	65.51	121.78	-1,397.53	4,220.39	3,944.79	3,857.64	87.15	45.264 CC			
6,200.00	6,061.73	6,246.29	6,008.65	29.86	65.56	121.78	-1,397.64	4,220.34	3,944.80	3,857.49	87.31	45.181			
6,300.00	6,161.73	6,341.58	6,103.93	30.25	65.72	121.79	-1,398.07	4,220.27	3,944.98	3,857.11	87.88	44.893			
6,400.00	6,261.73	6,443.39	6,205.74	30.63	65.89	121.79	-1,398.51	4,220.19	3,945.14	3,856.68	88.46	44.600			
6,451.69	6,313.42	6,494.51	6,256.86	30.83	65.98	121.79	-1,398.66	4,220.20	3,945.22	3,856.47	88.75	44.451 ES			
6,500.00	6,361.68	6,537.33	6,299.69	31.01	66.05	-145.68	-1,398.75	4,220.25	3,946.85	3,857.84	89.01	44.342			
6,550.00	6,411.34	6,580.72	6,343.07	31.20	66.12	-145.46	-1,398.82	4,220.40	3,951.79	3,862.54	89.25	44.279			
6,600.00	6,460.39	6,627.16	6,389.51	31.38	66.21	-145.11	-1,398.89	4,220.64	3,960.00	3,870.53	89.47	44.258 SF			
6,650.00	6,508.54	6,675.65	6,438.00	31.58	66.29	-144.62	-1,398.98	4,220.88	3,971.39	3,881.70	89.69	44.280			
6,700.00	6,555.48	6,725.85	6,488.19	31.78	66.38	-143.98	-1,399.08	4,221.11	3,985.87	3,895.98	89.89	44.343			
6,750.00	6,600.93	6,777.48	6,539.82	31.98	66.47	-143.18	-1,399.12	4,221.31	4,003.33	3,913.25	90.07	44.444			
6,800.00	6,644.61	6,818.01	6,580.35	32.20	66.54	-142.15	-1,399.11	4,221.44	4,023.69	3,933.47	90.22	44.597			
6,850.00	6,686.25	6,849.37	6,611.72	32.44	66.60	-140.84	-1,399.16	4,221.58	4,046.98	3,956.64	90.34	44.799			
6,900.00	6,725.58	6,878.93	6,641.28	32.68	66.65	-139.27	-1,399.27	4,221.76	4,073.08	3,982.65	90.43	45.040			
6,950.00	6,762.38	6,900.00	6,662.35	32.96	66.69	-137.32	-1,399.39	4,221.92	4,101.84	4,011.34	90.50	45.326			
7,000.00	6,796.41	6,900.00	6,662.35	33.25	66.69	-134.80	-1,399.39	4,221.92	4,133.22	4,042.72	90.50	45.673			
7,050.00	6,827.46	6,900.00	6,662.35	33.58	66.69	-131.79	-1,399.39	4,221.92	4,167.04	4,076.55	90.48	46.053			
7,100.00	6,855.34	6,900.00	6,662.35	33.93	66.69	-128.22	-1,399.39	4,221.92	4,203.03	4,112.57	90.46	46.461			
7,150.00	6,879.88	6,900.00	6,662.35	34.33	66.69	-123.99	-1,399.39	4,221.92	4,240.93	4,150.50	90.44	46.894			
7,200.00	6,900.93	6,900.00	6,662.35	34.76	66.69	-119.04	-1,399.39	4,221.92	4,280.46	4,190.05	90.41	47.345			
7,250.00	6,918.36	6,900.00	6,662.35	35.23	66.69	-113.31	-1,399.39	4,221.92	4,321.32	4,230.93	90.38	47.811			
7,300.00	6,932.05	6,900.00	6,662.35	35.74	66.69	-106.82	-1,399.39	4,221.92	4,363.23	4,272.86	90.36	48.286			
7,350.00	6,941.94	6,900.00	6,662.35	36.29	66.69	-99.64	-1,399.39	4,221.92	4,405.90	4,315.56	90.35	48.767			
7,400.00	6,947.94	6,900.00	6,662.35	36.87	66.69	-91.99	-1,399.39	4,221.92	4,449.07	4,358.73	90.34	49.250			
7,450.00	6,950.04	6,900.00	6,662.35	37.47	66.69	-84.16	-1,399.39	4,221.92	4,492.44	4,402.10	90.34	49.731			
7,458.56	6,950.00	6,900.00	6,662.35	37.58	66.69	-82.82	-1,399.39	4,221.92	4,499.86	4,409.53	90.34	49.813			
7,500.00	6,949.56	6,900.00	6,662.35	38.11	66.69	-82.82	-1,399.39	4,221.92	4,535.86	4,445.51	90.34	50.207			
7,600.00	6,948.48	6,900.00	6,662.35	39.51	66.69	-82.82	-1,399.39	4,221.92	4,623.09	4,532.70	90.39	51.147			
7,700.00	6,947.40	6,900.00	6,662.35	41.06	66.69	-82.82	-1,399.39	4,221.92	4,710.83	4,620.36	90.46	52.074			
7,800.00	6,946.32	6,900.00	6,662.35	42.74	66.69	-82.82	-1,399.39	4,221.92	4,799.04	4,708.48	90.57	52.988			
7,900.00	6,945.24	6,900.00	6,662.35	44.55	66.69	-82.82	-1,399.39	4,221.92	4,887.72	4,797.02	90.69	53.892			
8,000.00	6,944.16	6,900.00	6,662.35	46.46	66.69	-82.82	-1,399.39	4,221.92	4,976.82	4,885.98	90.84	54.787			
8,100.00	6,943.08	6,900.00	6,662.35	48.47	66.69	-82.82	-1,399.39	4,221.92	5,066.33	4,975.32	91.00	55.672			
8,200.00	6,942.01	6,900.00	6,662.35	50.55	66.69	-82.82	-1,399.39	4,221.92	5,156.22	5,065.04	91.18	56.551			
8,300.00	6,940.93	6,900.00	6,662.35	52.71	66.69	-82.82	-1,399.39	4,221.92	5,246.48	5,155.11	91.37	57.423			
8,400.00	6,939.85	6,900.00	6,662.35	54.93	66.69	-82.82	-1,399.39	4,221.92	5,337.09	5,245.52	91.56	58.290			
8,500.00	6,938.77	6,900.00	6,662.35	57.20	66.69	-82.82	-1,399.39	4,221.92	5,428.02	5,336.26	91.77	59.151			
8,600.00	6,937.69	6,900.00	6,662.35	59.53	66.69	-82.82	-1,399.39	4,221.92	5,519.27	5,427.30	91.97	60.008			
8,700.00	6,936.61	6,900.00	6,662.35	61.89	66.69	-82.82	-1,399.39	4,221.92	5,610.82	5,518.63	92.19	60.862			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC Northridge #4KD - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,800.00	6,935.54	6,900.00	6,662.35	64.30	66.69	-82.82	-1,399.39	4,221.92	5,702.65	5,610.25	92.41	61.713			
8,900.00	6,934.46	6,900.00	6,662.35	66.74	66.69	-82.82	-1,399.39	4,221.92	5,794.76	5,702.13	92.63	62.560			
9,000.00	6,933.38	6,900.00	6,662.35	69.21	66.69	-82.82	-1,399.39	4,221.92	5,887.12	5,794.27	92.85	63.406			
9,100.00	6,932.30	6,900.00	6,662.35	71.71	66.69	-82.82	-1,399.39	4,221.92	5,979.72	5,886.65	93.07	64.249			
9,200.00	6,931.22	6,900.00	6,662.35	74.23	66.69	-82.82	-1,399.39	4,221.92	6,072.56	5,979.27	93.29	65.091			
9,300.00	6,930.14	6,900.00	6,662.35	76.78	66.69	-82.82	-1,399.39	4,221.92	6,165.63	6,072.11	93.52	65.931			
9,400.00	6,929.06	6,900.00	6,662.35	79.34	66.69	-82.82	-1,399.39	4,221.92	6,258.91	6,165.17	93.74	66.771			
9,500.00	6,927.99	6,900.00	6,662.35	81.93	66.69	-82.82	-1,399.39	4,221.92	6,352.39	6,258.43	93.96	67.609			
9,600.00	6,926.91	6,900.00	6,662.35	84.53	66.69	-82.82	-1,399.39	4,221.92	6,446.07	6,351.89	94.18	68.446			
9,700.00	6,925.83	6,900.00	6,662.35	87.14	66.69	-82.82	-1,399.39	4,221.92	6,539.94	6,445.54	94.40	69.282			
9,800.00	6,924.75	6,900.00	6,662.35	89.77	66.69	-82.82	-1,399.39	4,221.92	6,633.98	6,539.37	94.61	70.118			
9,900.00	6,923.67	6,900.00	6,662.35	92.41	66.69	-82.82	-1,399.39	4,221.92	6,728.20	6,633.37	94.83	70.953			
10,000.00	6,922.59	6,900.00	6,662.35	95.07	66.69	-82.82	-1,399.39	4,221.92	6,822.58	6,727.54	95.04	71.788			
10,100.00	6,921.51	6,900.00	6,662.35	97.73	66.69	-82.82	-1,399.39	4,221.92	6,917.12	6,821.87	95.25	72.622			
10,200.00	6,920.44	6,900.00	6,662.35	100.40	66.69	-82.82	-1,399.39	4,221.92	7,011.81	6,916.35	95.46	73.457			
10,300.00	6,919.36	6,900.00	6,662.35	103.08	66.69	-82.82	-1,399.39	4,221.92	7,106.65	7,010.99	95.66	74.291			
10,400.00	6,918.28	6,900.00	6,662.35	105.77	66.69	-82.82	-1,399.39	4,221.92	7,201.62	7,105.76	95.86	75.124			
10,500.00	6,917.20	6,900.00	6,662.35	108.47	66.69	-82.82	-1,399.39	4,221.92	7,296.73	7,200.67	96.06	75.958			
10,600.00	6,916.12	6,900.00	6,662.35	111.18	66.69	-82.82	-1,399.39	4,221.92	7,391.97	7,295.71	96.26	76.791			
10,700.00	6,915.04	6,900.00	6,662.35	113.89	66.69	-82.82	-1,399.39	4,221.92	7,487.34	7,390.88	96.46	77.625			
10,800.00	6,913.96	6,900.00	6,662.35	116.61	66.69	-82.82	-1,399.39	4,221.92	7,582.82	7,486.17	96.65	78.458			
10,900.00	6,912.89	6,900.00	6,662.35	119.33	66.69	-82.82	-1,399.39	4,221.92	7,678.42	7,581.58	96.84	79.291			
11,000.00	6,911.81	6,900.00	6,662.35	122.06	66.69	-82.82	-1,399.39	4,221.92	7,774.13	7,677.10	97.03	80.124			
11,100.00	6,910.73	6,900.00	6,662.35	124.79	66.69	-82.82	-1,399.39	4,221.92	7,869.94	7,772.73	97.21	80.957			
11,200.00	6,909.65	6,900.00	6,662.35	127.53	66.69	-82.82	-1,399.39	4,221.92	7,965.86	7,868.47	97.39	81.790			
11,300.00	6,908.57	6,900.00	6,662.35	130.27	66.69	-82.82	-1,399.39	4,221.92	8,061.88	7,964.30	97.57	82.623			
11,400.00	6,907.49	6,900.00	6,662.35	133.02	66.69	-82.82	-1,399.39	4,221.92	8,157.99	8,060.24	97.75	83.455			
11,500.00	6,906.41	6,900.00	6,662.35	135.77	66.69	-82.82	-1,399.39	4,221.92	8,254.20	8,156.27	97.93	84.288			
11,600.00	6,905.34	6,900.00	6,662.35	138.52	66.69	-82.82	-1,399.39	4,221.92	8,350.49	8,252.39	98.10	85.120			
11,700.00	6,904.26	6,900.00	6,662.35	141.28	66.69	-82.82	-1,399.39	4,221.92	8,446.87	8,348.60	98.27	85.952			
11,800.00	6,903.18	6,900.00	6,662.35	144.04	66.69	-82.82	-1,399.39	4,221.92	8,543.34	8,444.89	98.44	86.784			
11,900.00	6,902.10	6,900.00	6,662.35	146.80	66.69	-82.82	-1,399.39	4,221.92	8,639.88	8,541.27	98.61	87.616			
12,000.00	6,901.02	6,900.00	6,662.35	149.57	66.69	-82.82	-1,399.39	4,221.92	8,736.50	8,637.73	98.78	88.448			
12,100.00	6,899.94	6,900.00	6,662.35	152.34	66.69	-82.82	-1,399.39	4,221.92	8,833.20	8,734.26	98.94	89.280			
12,200.00	6,898.87	6,900.00	6,662.35	155.11	66.69	-82.82	-1,399.39	4,221.92	8,929.97	8,830.87	99.10	90.111			
12,300.00	6,897.79	6,900.00	6,662.35	157.89	66.69	-82.82	-1,399.39	4,221.92	9,026.81	8,927.55	99.26	90.942			
12,400.00	6,896.71	6,900.00	6,662.35	160.66	66.69	-82.82	-1,399.39	4,221.92	9,123.72	9,024.30	99.42	91.773			
12,500.00	6,895.63	6,900.00	6,662.35	163.44	66.69	-82.82	-1,399.39	4,221.92	9,220.69	9,121.12	99.57	92.603			
12,600.00	6,894.55	6,900.00	6,662.35	166.22	66.69	-82.82	-1,399.39	4,221.92	9,317.73	9,218.01	99.73	93.434			
12,700.00	6,893.47	6,900.00	6,662.35	169.00	66.69	-82.82	-1,399.39	4,221.92	9,414.83	9,314.96	99.88	94.264			
12,800.00	6,892.39	6,900.00	6,662.35	171.79	66.69	-82.82	-1,399.39	4,221.92	9,511.99	9,411.97	100.03	95.093			
12,900.00	6,891.32	6,900.00	6,662.35	174.57	66.69	-82.82	-1,399.39	4,221.92	9,609.21	9,509.04	100.18	95.923			
13,000.00	6,890.24	6,900.00	6,662.35	177.36	66.69	-82.82	-1,399.39	4,221.92	9,706.49	9,606.16	100.32	96.752			
13,100.00	6,889.16	6,900.00	6,662.35	180.15	66.69	-82.82	-1,399.39	4,221.92	9,803.82	9,703.35	100.47	97.580			
13,200.00	6,888.08	6,900.00	6,662.35	182.94	66.69	-82.82	-1,399.39	4,221.92	9,901.20	9,800.59	100.61	98.408			
13,300.00	6,887.00	6,900.00	6,662.35	185.74	66.69	-82.82	-1,399.39	4,221.92	9,998.64	9,897.88	100.76	99.236			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #11-5-3NCHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 133-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	90.65	-5.82	512.49	512.57					
100.00	100.00	99.92	99.92	3.28	3.29	90.68	-6.06	511.81	511.89	505.32	6.57	77.879		
200.00	200.00	202.79	202.77	3.34	3.33	90.74	-6.56	510.03	510.17	503.49	6.67	76.447		
300.00	299.98	301.65	301.61	3.44	3.44	39.10	-7.40	508.03	506.80	499.91	6.89	73.609		
400.00	399.84	399.89	399.84	3.61	3.59	39.61	-7.96	506.72	501.42	494.23	7.20	69.674		
500.00	499.45	502.98	502.91	3.81	3.80	40.43	-8.24	504.90	492.99	485.38	7.61	64.778		
600.00	598.70	606.31	606.21	4.06	4.05	41.60	-8.40	502.27	481.23	473.13	8.11	59.370		
700.00	697.47	702.91	702.76	4.35	4.32	43.06	-8.38	499.33	466.58	457.93	8.65	53.965		
800.00	795.62	801.06	800.87	4.66	4.61	45.13	-9.60	496.74	450.24	440.99	9.25	48.680		
900.00	893.06	895.12	894.87	5.01	4.91	47.70	-11.45	494.10	431.99	422.10	9.89	43.683		
961.44	952.51	952.43	952.17	5.25	5.10	49.49	-12.27	492.94	420.46	410.16	10.31	40.801		
1,000.00	989.71	988.80	988.52	5.40	5.23	50.60	-12.73	492.30	413.24	402.67	10.57	39.080		
1,100.00	1,086.20	1,086.98	1,086.68	5.81	5.57	53.74	-13.81	490.52	395.24	383.93	11.31	34.947		
1,200.00	1,182.69	1,189.63	1,189.28	6.24	5.95	57.35	-14.73	487.37	377.27	365.18	12.09	31.193		
1,300.00	1,279.18	1,281.44	1,281.02	6.69	6.29	60.88	-15.27	483.77	359.92	347.05	12.88	27.951		
1,400.00	1,375.67	1,373.89	1,373.44	7.15	6.62	64.24	-13.60	482.77	345.72	332.04	13.67	25.284		
1,500.00	1,472.15	1,474.76	1,474.23	7.62	6.99	67.82	-9.87	482.61	332.85	318.35	14.51	22.945		
1,600.00	1,568.64	1,573.74	1,573.03	8.10	7.35	71.27	-3.91	482.38	320.06	304.70	15.35	20.846		
1,700.00	1,665.13	1,678.58	1,677.57	8.59	7.75	75.04	3.93	481.57	307.25	291.02	16.23	18.934		
1,800.00	1,761.62	1,776.40	1,774.80	9.08	8.12	78.22	14.68	481.72	294.23	277.13	17.10	17.204		
1,900.00	1,858.11	1,876.80	1,874.44	9.58	8.51	81.52	26.99	482.39	281.76	263.77	17.99	15.658		
2,000.00	1,954.60	1,982.78	1,979.32	10.08	8.96	85.20	42.12	481.73	267.92	249.03	18.89	14.184		
2,100.00	2,051.09	2,080.74	2,076.12	10.59	9.38	88.97	57.07	480.19	253.82	234.02	19.80	12.819		
2,200.00	2,147.57	2,178.04	2,172.29	11.09	9.81	93.22	71.69	478.35	240.96	220.23	20.72	11.629		
2,300.00	2,244.06	2,275.23	2,268.43	11.61	10.24	98.09	85.78	475.90	229.71	208.06	21.64	10.613		
2,400.00	2,340.55	2,372.56	2,364.73	12.12	10.69	103.62	99.50	472.72	220.37	197.81	22.56	9.767		
2,500.00	2,437.04	2,469.79	2,460.95	12.64	11.13	109.75	112.98	468.77	213.29	189.82	23.47	9.087		
2,600.00	2,533.53	2,566.54	2,556.67	13.15	11.59	116.30	126.36	464.36	208.84	184.47	24.37	8.569		
2,684.96	2,615.51	2,648.24	2,637.50	13.59	11.97	122.12	137.38	460.09	207.62	182.50	25.12	8.264 CC		
2,700.00	2,630.02	2,662.76	2,651.87	13.67	12.04	123.17	139.32	459.28	207.66	182.41	25.26	8.222 ES		
2,800.00	2,726.50	2,758.93	2,747.01	14.19	12.50	130.17	152.15	453.62	209.86	183.74	26.13	8.033		
2,900.00	2,822.99	2,854.62	2,841.68	14.72	12.95	137.03	164.72	447.50	215.61	188.63	26.99	7.990		
3,000.00	2,919.48	2,950.31	2,936.34	15.24	13.42	143.54	177.09	440.99	224.80	196.96	27.84	8.074		
3,100.00	3,015.97	3,045.30	3,030.32	15.76	13.88	149.49	189.17	434.36	237.09	208.39	28.70	8.262		
3,200.00	3,112.46	3,144.73	3,128.76	16.29	14.36	154.97	201.50	427.78	251.98	222.38	29.59	8.514		
3,300.00	3,208.95	3,243.84	3,226.83	16.81	14.84	159.59	215.12	423.16	266.72	236.21	30.50	8.743		
3,400.00	3,305.44	3,339.00	3,320.99	17.34	15.31	163.59	228.07	418.44	283.26	251.87	31.39	9.024		
3,500.00	3,401.92	3,434.54	3,415.58	17.87	15.78	167.12	240.56	413.66	301.50	269.21	32.29	9.338		
3,600.00	3,498.41	3,529.44	3,509.56	18.40	16.25	170.25	252.77	408.57	321.17	287.98	33.18	9.678		
3,700.00	3,594.90	3,625.16	3,604.41	18.93	16.72	172.98	264.49	403.39	342.16	308.06	34.10	10.035		
3,800.00	3,691.39	3,721.49	3,699.89	19.46	17.19	175.40	276.17	398.24	363.87	328.85	35.02	10.390		
3,900.00	3,787.88	3,814.84	3,792.39	19.99	17.65	177.53	287.53	392.80	386.47	350.56	35.91	10.763		
4,000.00	3,884.37	3,902.69	3,879.62	20.52	18.08	179.15	296.51	387.57	410.85	374.14	36.71	11.192		
4,100.00	3,980.85	3,993.70	3,970.19	21.05	18.50	-179.60	303.12	381.68	437.65	400.11	37.54	11.658		
4,200.00	4,077.34	4,084.17	4,060.49	21.58	18.89	-178.94	306.77	377.71	464.94	426.60	38.34	12.127		
4,300.00	4,173.83	4,172.42	4,148.68	22.11	19.25	-178.76	306.51	374.21	494.39	455.31	39.08	12.652		
4,390.25	4,260.91	4,261.71	4,237.90	22.59	19.60	-178.62	306.05	370.83	520.98	481.08	39.89	13.059		
4,400.00	4,270.32	4,271.26	4,247.44	22.64	19.64	-178.62	305.98	370.52	523.81	483.83	39.98	13.102		
4,500.00	4,367.33	4,367.99	4,344.13	23.16	20.02	-178.66	304.57	368.08	550.85	510.02	40.83	13.492		
4,600.00	4,465.13	4,465.01	4,441.10	23.65	20.40	-178.70	302.91	365.63	574.66	533.00	41.66	13.794		
4,700.00	4,563.60	4,583.02	4,559.09	24.12	20.86	-178.74	301.68	363.73	594.08	551.31	42.77	13.891		
4,800.00	4,662.61	4,689.15	4,665.20	24.56	21.27	-178.86	302.00	365.54	606.49	562.82	43.67	13.887		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 133-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,790.51	4,766.54	24.98	21.67	-178.90	302.86	367.01	615.34	570.83	44.51	13.824		
5,000.00	4,861.80	4,890.18	4,866.20	25.38	22.07	-178.88	304.24	368.31	620.50	575.17	45.33	13.690		
5,100.00	4,961.73	4,988.89	4,964.89	25.76	22.47	-178.83	305.75	369.32	622.31	576.19	46.12	13.494		
5,151.69	5,013.42	5,039.87	5,015.86	25.95	22.68	-126.91	306.56	369.72	621.96	575.44	46.52	13.369		
5,200.00	5,061.73	5,087.50	5,063.48	26.13	22.87	-126.86	307.41	369.95	621.26	574.36	46.90	13.247		
5,300.00	5,161.73	5,186.89	5,162.85	26.49	23.29	-126.73	309.30	370.23	619.90	572.20	47.69	12.998		
5,400.00	5,261.73	5,284.87	5,260.82	26.86	23.70	-126.59	311.17	370.22	618.76	570.29	48.47	12.766		
5,500.00	5,361.73	5,383.83	5,359.76	27.23	24.11	-126.43	313.14	369.88	617.85	568.58	49.27	12.541		
5,600.00	5,461.73	5,482.31	5,458.20	27.60	24.54	-126.18	315.63	368.84	617.21	567.14	50.06	12.328		
5,700.00	5,561.73	5,583.38	5,559.22	27.97	24.97	-125.88	318.66	367.53	616.49	565.59	50.90	12.113		
5,800.00	5,661.73	5,681.69	5,657.52	28.35	25.37	-125.88	319.01	367.90	615.97	564.30	51.67	11.921		
5,900.00	5,761.73	5,782.79	5,758.61	28.72	25.77	-125.92	319.02	368.63	615.38	562.90	52.48	11.726		
6,000.00	5,861.73	5,881.66	5,857.48	29.10	26.18	-125.87	319.79	368.75	614.83	561.56	53.27	11.541		
6,100.00	5,961.73	5,980.01	5,955.82	29.48	26.59	-125.75	320.99	368.28	614.50	560.43	54.07	11.365		
6,150.25	6,011.98	6,029.18	6,004.98	29.67	26.80	-125.67	321.71	367.81	614.46	559.99	54.47	11.281		
6,200.00	6,061.73	6,078.84	6,054.63	29.86	27.01	-125.57	322.53	367.21	614.47	559.59	54.88	11.197		
6,200.30	6,062.03	6,079.14	6,054.93	29.86	27.01	-125.57	322.53	367.21	614.47	559.59	54.88	11.196		
6,300.00	6,161.73	6,177.09	6,152.85	30.25	27.43	-125.34	324.55	365.68	614.55	558.86	55.68	11.036		
6,400.00	6,261.73	6,275.99	6,251.71	30.63	27.85	-125.09	326.44	363.72	615.07	558.57	56.49	10.888		
6,451.69	6,313.42	6,337.83	6,313.55	30.83	28.10	-125.08	326.40	363.59	615.23	558.19	57.04	10.787		
6,500.00	6,361.68	6,543.04	6,513.43	31.01	28.81	-36.25	319.38	402.64	607.55	550.20	57.35	10.593		
6,550.00	6,411.34	6,605.14	6,570.85	31.20	29.00	-39.52	316.20	426.08	589.60	532.09	57.51	10.253		
6,600.00	6,460.39	6,600.00	6,638.63	31.38	28.99	-44.92	312.97	461.28	565.19	508.08	57.11	9.897		
6,650.00	6,508.54	6,769.31	6,713.10	31.58	29.44	-53.38	310.00	507.22	537.62	480.84	56.78	9.469		
6,700.00	6,555.48	6,809.41	6,746.05	31.78	29.55	-59.86	309.17	530.05	508.58	451.38	57.20	8.891		
6,750.00	6,600.93	6,841.24	6,771.67	31.98	29.62	-66.40	308.43	548.93	479.30	421.44	57.86	8.284		
6,800.00	6,644.61	6,865.86	6,791.12	32.20	29.68	-72.53	307.79	564.01	450.91	392.20	58.70	7.681		
6,850.00	6,686.25	6,883.86	6,805.13	32.44	29.73	-77.81	307.27	575.29	424.57	364.89	59.68	7.114		
6,900.00	6,725.58	6,896.72	6,815.03	32.68	29.76	-82.07	306.87	583.50	401.50	340.79	60.71	6.614		
6,950.00	6,762.38	6,905.08	6,821.40	32.96	29.79	-85.18	306.63	588.90	382.81	321.15	61.66	6.208		
7,000.00	6,796.41	6,907.63	6,823.34	33.25	29.80	-86.82	306.56	590.56	369.58	307.18	62.40	5.923		
7,050.00	6,827.46	6,905.46	6,821.69	33.58	29.79	-87.11	306.62	589.15	362.58	299.82	62.77	5.777		
7,078.16	6,843.57	6,902.49	6,819.43	33.78	29.78	-86.74	306.70	587.22	361.53	298.75	62.78	5.759 SF		
7,100.00	6,855.34	6,899.41	6,817.09	33.93	29.77	-86.20	306.79	585.23	362.16	299.47	62.69	5.777		
7,150.00	6,879.88	6,890.46	6,810.22	34.33	29.75	-84.26	307.06	579.49	368.16	305.93	62.23	5.916		
7,200.00	6,900.93	6,879.61	6,801.83	34.76	29.72	-81.51	307.39	572.61	380.04	318.48	61.56	6.174		
7,250.00	6,918.36	6,866.38	6,791.52	35.23	29.69	-77.97	307.77	564.33	396.92	336.13	60.79	6.530		
7,300.00	6,932.05	6,851.06	6,779.46	35.74	29.65	-73.80	308.18	554.90	417.81	357.75	60.06	6.957		
7,350.00	6,941.94	6,833.90	6,765.80	36.29	29.61	-69.21	308.61	544.52	441.71	382.26	59.44	7.431		
7,400.00	6,947.94	6,815.11	6,750.67	36.87	29.56	-64.42	309.03	533.39	467.70	408.71	58.99	7.929		
7,450.00	6,950.04	6,794.25	6,733.65	37.47	29.51	-59.58	309.45	521.33	495.01	436.34	58.67	8.438		
7,458.56	6,950.00	6,789.93	6,730.10	37.58	29.50	-58.71	309.53	518.87	499.75	441.16	58.60	8.529		
7,500.00	6,949.56	6,769.22	6,713.02	38.11	29.44	-56.68	310.00	507.17	523.43	465.11	58.31	8.977		
7,600.00	6,948.48	6,722.05	6,673.61	39.51	29.32	-52.28	311.39	481.28	585.41	527.54	57.87	10.116		
7,700.00	6,947.40	6,703.00	6,657.51	41.06	29.27	-50.60	312.08	471.13	653.65	594.90	58.74	11.127		
7,800.00	6,946.32	6,661.04	6,621.21	42.74	29.16	-47.04	313.74	450.16	726.52	667.92	58.60	12.399		
7,900.00	6,945.24	6,638.80	6,601.44	44.55	29.09	-45.24	314.69	440.04	804.12	745.00	59.12	13.602		
8,000.00	6,944.16	6,607.00	6,572.56	46.46	29.01	-42.78	316.12	426.81	885.38	826.13	59.25	14.943		
8,100.00	6,943.08	6,598.70	6,564.92	48.47	28.94	-42.16	316.51	423.57	968.97	909.03	59.94	16.166		
8,200.00	6,942.01	6,571.56	6,539.89	50.55	28.90	-40.21	317.85	413.18	1,054.64	994.57	60.07	17.557		
8,300.00	6,940.93	6,546.12	6,516.30	52.71	28.82	-38.48	319.21	403.76	1,141.76	1,081.56	60.20	18.965		
8,400.00	6,939.85	6,512.00	6,484.48	54.93	28.72	-36.30	321.20	391.61	1,230.16	1,170.00	60.16	20.448		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 133-MWD													Boomerang 21-5 - SRC Wiedeman #11-5-3NCHZ - OH - OH		Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
8,500.00	6,938.77	6,512.00	6,484.48	57.20	28.72	-36.30	321.20	391.61	1,319.55	1,258.89	60.66	21.752				
8,600.00	6,937.69	6,512.00	6,484.48	59.53	28.72	-36.30	321.20	391.61	1,410.37	1,349.31	61.06	23.096				
8,700.00	6,936.61	6,512.00	6,484.48	61.89	28.72	-36.30	321.20	391.61	1,502.35	1,440.97	61.39	24.473				
8,800.00	6,935.54	6,512.00	6,484.48	64.30	28.72	-36.30	321.20	391.61	1,595.30	1,533.65	61.65	25.877				
8,900.00	6,934.46	6,512.00	6,484.48	66.74	28.72	-36.30	321.20	391.61	1,689.06	1,627.19	61.87	27.302				
9,000.00	6,933.38	6,512.00	6,484.48	69.21	28.72	-36.30	321.20	391.61	1,783.49	1,721.44	62.05	28.745				
9,100.00	6,932.30	6,470.99	6,445.43	71.71	28.58	-33.90	323.36	379.29	1,875.95	1,814.08	61.88	30.317				
9,200.00	6,931.22	6,466.59	6,441.18	74.23	28.57	-33.66	323.55	378.20	1,970.91	1,908.91	62.00	31.787				
9,300.00	6,930.14	6,462.53	6,437.24	76.78	28.55	-33.44	323.72	377.24	2,066.29	2,004.18	62.12	33.265				
9,400.00	6,929.06	6,458.78	6,433.59	79.34	28.54	-33.23	323.87	376.39	2,162.05	2,099.83	62.22	34.751				
9,500.00	6,927.99	6,417.00	6,392.48	81.93	28.40	-31.11	325.18	369.19	2,260.28	2,198.20	62.08	36.407				
9,600.00	6,926.91	6,417.00	6,392.48	84.53	28.40	-31.11	325.18	369.19	2,356.30	2,294.10	62.20	37.882				
9,700.00	6,925.83	6,417.00	6,392.48	87.14	28.40	-31.11	325.18	369.19	2,452.64	2,390.33	62.30	39.365				
9,800.00	6,924.75	6,417.00	6,392.48	89.77	28.40	-31.11	325.18	369.19	2,549.26	2,486.86	62.40	40.855				
9,900.00	6,923.67	6,417.00	6,392.48	92.41	28.40	-31.11	325.18	369.19	2,646.13	2,583.65	62.48	42.350				
10,000.00	6,922.59	6,417.00	6,392.48	95.07	28.40	-31.11	325.18	369.19	2,743.22	2,680.66	62.56	43.849				
10,100.00	6,921.51	6,417.00	6,392.48	97.73	28.40	-31.11	325.18	369.19	2,840.52	2,777.89	62.63	45.352				
10,200.00	6,920.44	6,417.00	6,392.48	100.40	28.40	-31.11	325.18	369.19	2,938.00	2,875.30	62.70	46.858				
10,300.00	6,919.36	6,417.00	6,392.48	103.08	28.40	-31.11	325.18	369.19	3,035.64	2,972.88	62.76	48.367				
10,400.00	6,918.28	6,417.00	6,392.48	105.77	28.40	-31.11	325.18	369.19	3,133.43	3,070.61	62.82	49.878				
10,500.00	6,917.20	6,417.00	6,392.48	108.47	28.40	-31.11	325.18	369.19	3,231.36	3,168.48	62.88	51.390				
10,600.00	6,916.12	6,417.00	6,392.48	111.18	28.40	-31.11	325.18	369.19	3,329.41	3,266.48	62.93	52.904				
10,700.00	6,915.04	6,417.00	6,392.48	113.89	28.40	-31.11	325.18	369.19	3,427.57	3,364.59	62.99	54.418				
10,800.00	6,913.96	6,417.00	6,392.48	116.61	28.40	-31.11	325.18	369.19	3,525.84	3,462.80	63.04	55.933				
10,900.00	6,912.89	6,417.00	6,392.48	119.33	28.40	-31.11	325.18	369.19	3,624.20	3,561.11	63.09	57.448				
11,000.00	6,911.81	6,417.00	6,392.48	122.06	28.40	-31.11	325.18	369.19	3,722.64	3,659.51	63.14	58.963				
11,100.00	6,910.73	6,417.00	6,392.48	124.79	28.40	-31.11	325.18	369.19	3,821.17	3,757.99	63.18	60.478				
11,200.00	6,909.65	6,417.00	6,392.48	127.53	28.40	-31.11	325.18	369.19	3,919.78	3,856.55	63.23	61.991				
11,300.00	6,908.57	6,417.00	6,392.48	130.27	28.40	-31.11	325.18	369.19	4,018.45	3,955.17	63.28	63.504				
11,400.00	6,907.49	6,417.00	6,392.48	133.02	28.40	-31.11	325.18	369.19	4,117.18	4,053.86	63.33	65.016				
11,500.00	6,906.41	6,417.00	6,392.48	135.77	28.40	-31.11	325.18	369.19	4,215.98	4,152.61	63.37	66.527				
11,600.00	6,905.34	6,417.00	6,392.48	138.52	28.40	-31.11	325.18	369.19	4,314.83	4,251.41	63.42	68.036				
11,700.00	6,904.26	6,417.00	6,392.48	141.28	28.40	-31.11	325.18	369.19	4,413.73	4,350.27	63.47	69.544				
11,800.00	6,903.18	6,417.00	6,392.48	144.04	28.40	-31.11	325.18	369.19	4,512.69	4,449.17	63.51	71.050				
11,900.00	6,902.10	6,417.00	6,392.48	146.80	28.40	-31.11	325.18	369.19	4,611.68	4,548.12	63.56	72.554				
12,000.00	6,901.02	6,417.00	6,392.48	149.57	28.40	-31.11	325.18	369.19	4,710.72	4,647.11	63.61	74.056				
12,100.00	6,899.94	6,417.00	6,392.48	152.34	28.40	-31.11	325.18	369.19	4,809.80	4,746.14	63.66	75.555				
12,200.00	6,898.87	6,417.00	6,392.48	155.11	28.40	-31.11	325.18	369.19	4,908.92	4,845.21	63.71	77.053				
12,300.00	6,897.79	6,417.00	6,392.48	157.89	28.40	-31.11	325.18	369.19	5,008.07	4,944.31	63.76	78.548				
12,400.00	6,896.71	6,417.00	6,392.48	160.66	28.40	-31.11	325.18	369.19	5,107.25	5,043.44	63.81	80.041				
12,500.00	6,895.63	6,417.00	6,392.48	163.44	28.40	-31.11	325.18	369.19	5,206.47	5,142.61	63.86	81.531				
12,600.00	6,894.55	6,417.00	6,392.48	166.22	28.40	-31.11	325.18	369.19	5,305.71	5,241.80	63.91	83.018				
12,700.00	6,893.47	6,417.00	6,392.48	169.00	28.40	-31.11	325.18	369.19	5,404.98	5,341.02	63.96	84.502				
12,800.00	6,892.39	6,417.00	6,392.48	171.79	28.40	-31.11	325.18	369.19	5,504.28	5,440.27	64.02	85.984				
12,900.00	6,891.32	6,417.00	6,392.48	174.57	28.40	-31.11	325.18	369.19	5,603.61	5,539.54	64.07	87.462				
13,000.00	6,890.24	6,417.00	6,392.48	177.36	28.40	-31.11	325.18	369.19	5,702.95	5,638.83	64.12	88.938				
13,100.00	6,889.16	6,417.00	6,392.48	180.15	28.40	-31.11	325.18	369.19	5,802.33	5,738.15	64.18	90.410				
13,200.00	6,888.08	6,417.00	6,392.48	182.94	28.40	-31.11	325.18	369.19	5,901.72	5,837.48	64.23	91.879				
13,300.00	6,887.00	6,417.00	6,392.48	185.74	28.40	-31.11	325.18	369.19	6,001.13	5,936.84	64.29	93.345				
13,400.00	6,885.92	6,417.00	6,392.48	188.53	28.40	-31.11	325.18	369.19	6,100.56	6,036.21	64.35	94.807				
13,500.00	6,884.84	6,417.00	6,392.48	191.32	28.40	-31.11	325.18	369.19	6,200.01	6,135.60	64.41	96.266				
13,600.00	6,883.77	6,417.00	6,392.48	194.12	28.40	-31.11	325.18	369.19	6,299.47	6,235.01	64.46	97.721				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Boomerang 21-5 - SRC Wiedeman #11-5-3NCHZ - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 133-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor	
13,700.00	6,882.69	6,417.00	6,392.48	196.92	28.40	-31.11	325.18	369.19	6,398.96	6,334.43	64.52	99.173		
13,800.00	6,881.61	6,417.00	6,392.48	199.72	28.40	-31.11	325.18	369.19	6,498.46	6,433.87	64.58	100.621		
13,900.00	6,880.53	6,417.00	6,392.48	202.52	28.40	-31.11	325.18	369.19	6,597.97	6,533.33	64.64	102.065		
14,000.00	6,879.45	6,417.00	6,392.48	205.32	28.40	-31.11	325.18	369.19	6,697.50	6,632.79	64.71	103.506		
14,100.00	6,878.37	6,417.00	6,392.48	208.12	28.40	-31.11	325.18	369.19	6,797.04	6,732.27	64.77	104.942		
14,200.00	6,877.29	6,417.00	6,392.48	210.92	28.40	-31.11	325.18	369.19	6,896.60	6,831.77	64.83	106.375		
14,300.00	6,876.22	6,417.00	6,392.48	213.73	28.40	-31.11	325.18	369.19	6,996.17	6,931.27	64.90	107.804		
14,400.00	6,875.14	6,417.00	6,392.48	216.53	28.40	-31.11	325.18	369.19	7,095.75	7,030.78	64.96	109.229		
14,500.00	6,874.06	6,417.00	6,392.48	219.34	28.40	-31.11	325.18	369.19	7,195.34	7,130.31	65.03	110.650		
14,600.00	6,872.98	6,417.00	6,392.48	222.15	28.40	-31.11	325.18	369.19	7,294.94	7,229.85	65.09	112.067		
14,700.00	6,871.90	6,417.00	6,392.48	224.95	28.40	-31.11	325.18	369.19	7,394.56	7,329.39	65.16	113.480		
14,800.00	6,870.82	6,417.00	6,392.48	227.76	28.40	-31.11	325.18	369.19	7,494.18	7,428.95	65.23	114.888		
14,900.00	6,869.75	6,417.00	6,392.48	230.57	28.40	-31.11	325.18	369.19	7,593.82	7,528.52	65.30	116.293		
15,000.00	6,868.67	6,374.11	6,349.79	233.38	28.24	-29.19	325.99	365.16	7,692.16	7,626.84	65.31	117.771		
15,100.00	6,867.59	6,373.42	6,349.10	236.19	28.24	-29.16	326.00	365.11	7,791.77	7,726.38	65.38	119.169		
15,200.00	6,866.51	6,372.74	6,348.42	239.00	28.23	-29.13	326.01	365.07	7,891.39	7,825.93	65.45	120.562		
15,300.00	6,865.43	6,372.07	6,347.76	241.81	28.23	-29.10	326.02	365.02	7,991.02	7,925.49	65.53	121.951		
15,400.00	6,864.35	6,371.43	6,347.11	244.63	28.23	-29.08	326.03	364.98	8,090.66	8,025.06	65.60	123.336		
15,500.00	6,863.27	6,370.79	6,346.48	247.44	28.23	-29.05	326.04	364.94	8,190.30	8,124.63	65.67	124.716		
15,600.00	6,862.20	6,370.17	6,345.86	250.25	28.22	-29.02	326.04	364.90	8,289.96	8,224.21	65.75	126.092		
15,618.10	6,862.00	6,370.06	6,345.75	250.76	28.22	-29.02	326.05	364.90	8,307.99	8,242.23	65.76	126.340		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	94.01	-35.69	509.43	510.72					
100.00	100.00	99.12	99.11	3.28	3.30	94.08	-36.22	508.33	509.66	503.07	6.58	77.403		
200.00	200.00	200.17	200.15	3.34	3.38	94.17	-36.99	507.05	508.45	501.73	6.71	75.741		
300.00	299.98	302.65	302.62	3.44	3.51	42.54	-37.65	505.30	505.50	498.55	6.95	72.684		
400.00	399.84	402.72	402.66	3.61	3.69	43.11	-38.15	503.27	499.69	492.39	7.29	68.518		
500.00	499.45	508.83	508.73	3.81	3.93	44.07	-38.76	500.50	490.82	483.08	7.74	63.434		
600.00	598.70	612.45	612.28	4.06	4.20	45.43	-39.34	496.46	478.32	470.07	8.25	57.954		
700.00	697.47	704.94	704.69	4.35	4.47	47.06	-40.00	493.04	463.86	455.06	8.79	52.755		
800.00	795.62	805.83	805.52	4.66	4.78	49.28	-40.59	489.45	447.58	438.16	9.42	47.525		
900.00	893.06	894.34	893.99	5.01	5.07	51.75	-41.32	486.93	430.40	420.36	10.05	42.836		
961.44	952.51	952.63	952.26	5.25	5.27	53.64	-41.96	485.74	419.74	409.27	10.47	40.080		
1,000.00	989.71	989.37	988.99	5.40	5.40	54.81	-42.35	485.06	413.08	402.34	10.75	38.436		
1,100.00	1,086.20	1,087.99	1,087.57	5.81	5.75	58.23	-43.92	482.68	396.37	384.88	11.50	34.479		
1,200.00	1,182.69	1,185.78	1,185.28	6.24	6.12	62.03	-46.18	479.33	380.52	368.24	12.28	30.986		
1,300.00	1,279.18	1,280.62	1,280.02	6.69	6.48	66.07	-48.69	475.74	366.30	353.21	13.09	27.985		
1,400.00	1,375.67	1,375.01	1,374.30	7.15	6.85	70.38	-51.33	472.24	354.32	340.40	13.93	25.445		
1,500.00	1,472.15	1,469.07	1,468.28	7.62	7.22	74.88	-53.87	469.13	344.93	330.15	14.78	23.333		
1,600.00	1,568.64	1,564.93	1,564.09	8.10	7.60	79.50	-55.83	466.66	338.12	322.46	15.66	21.590		
1,700.00	1,665.13	1,663.21	1,662.31	8.59	8.00	84.37	-57.38	463.87	333.29	316.73	16.56	20.124		
1,792.05	1,753.95	1,746.22	1,745.20	9.04	8.34	88.85	-59.93	460.29	331.29	313.92	17.37	19.069 CC		
1,800.00	1,761.62	1,753.23	1,752.20	9.08	8.37	89.24	-60.25	459.97	331.30	313.86	17.44	18.994 ES		
1,900.00	1,858.11	1,840.53	1,839.23	9.58	8.74	94.28	-65.60	455.67	334.31	316.01	18.30	18.265		
2,000.00	1,954.60	1,931.27	1,929.53	10.08	9.13	99.59	-73.20	450.98	342.38	323.22	19.16	17.865		
2,100.00	2,051.09	2,024.33	2,022.21	10.59	9.53	104.56	-80.69	447.47	354.00	333.98	20.02	17.681		
2,200.00	2,147.57	2,116.52	2,114.04	11.09	9.93	109.13	-88.28	444.32	368.67	347.81	20.86	17.675		
2,300.00	2,244.06	2,210.00	2,206.95	11.61	10.34	113.76	-97.07	439.01	386.41	364.71	21.69	17.812		
2,400.00	2,340.55	2,303.82	2,300.30	12.12	10.76	117.86	-105.40	434.73	406.25	383.73	22.52	18.038		
2,500.00	2,437.04	2,398.69	2,394.78	12.64	11.18	121.40	-113.61	432.13	427.99	404.64	23.35	18.327		
2,600.00	2,533.53	2,493.69	2,489.42	13.15	11.60	124.56	-121.50	429.89	450.89	426.71	24.19	18.643		
2,700.00	2,630.02	2,586.85	2,582.13	13.67	12.02	127.66	-129.32	425.24	475.18	450.19	25.00	19.010		
2,800.00	2,726.50	2,680.17	2,675.01	14.19	12.45	130.47	-137.26	420.76	500.84	475.03	25.81	19.405		
2,900.00	2,822.99	2,775.21	2,769.61	14.72	12.88	133.02	-145.32	416.47	527.54	500.90	26.64	19.800		
3,000.00	2,919.48	2,872.78	2,866.79	15.24	13.32	135.30	-153.28	413.04	554.67	527.17	27.51	20.166		
3,100.00	3,015.97	2,962.11	2,955.80	15.76	13.73	137.13	-160.44	410.55	582.28	554.00	28.28	20.588		
3,200.00	3,112.46	3,055.58	3,048.80	16.29	14.16	139.03	-168.68	406.20	611.57	582.47	29.10	21.013		
3,300.00	3,208.95	3,161.71	3,154.52	16.81	14.65	141.00	-176.70	401.46	640.28	610.21	30.07	21.293		
3,400.00	3,305.44	3,264.75	3,257.21	17.34	15.12	142.96	-182.04	394.94	667.83	636.84	30.99	21.547		
3,500.00	3,401.92	3,365.97	3,358.18	17.87	15.58	144.69	-186.36	389.32	694.92	663.02	31.90	21.784		
3,600.00	3,498.41	3,452.96	3,444.98	18.40	15.97	146.02	-190.13	385.00	722.38	689.71	32.67	22.113		
3,700.00	3,594.90	3,557.76	3,549.54	18.93	16.44	147.48	-195.12	380.02	750.59	716.97	33.62	22.328		
3,800.00	3,691.39	3,635.36	3,626.95	19.46	16.80	148.54	-198.38	375.77	778.93	744.64	34.29	22.715		
3,900.00	3,787.88	3,718.13	3,709.35	19.99	17.18	149.67	-203.41	369.68	809.85	774.84	35.01	23.132		
4,000.00	3,884.37	3,808.14	3,798.90	20.52	17.61	150.81	-209.35	362.93	841.64	805.83	35.81	23.502		
4,100.00	3,980.85	3,900.14	3,890.41	21.05	18.04	151.89	-215.74	355.88	874.11	837.47	36.64	23.859		
4,200.00	4,077.34	3,997.20	3,986.97	21.58	18.50	152.94	-222.40	348.70	906.68	869.16	37.52	24.163		
4,300.00	4,173.83	4,087.26	4,076.61	22.11	18.93	153.83	-228.41	342.30	939.20	900.87	38.33	24.502		
4,390.25	4,260.91	4,165.50	4,154.42	22.59	19.30	154.50	-234.75	337.28	969.51	930.48	39.03	24.841		
4,400.00	4,270.32	4,175.67	4,164.55	22.64	19.35	154.61	-235.60	336.66	972.78	933.66	39.12	24.864		
4,500.00	4,367.33	4,288.57	4,276.93	23.16	19.89	155.69	-244.22	330.27	1,004.06	963.87	40.19	24.986		
4,600.00	4,465.13	4,390.28	4,378.33	23.65	20.36	156.50	-250.33	325.26	1,030.64	989.54	41.10	25.076		
4,700.00	4,563.60	4,490.71	4,478.46	24.12	20.82	157.11	-256.92	321.04	1,054.34	1,012.35	41.99	25.109		
4,800.00	4,662.61	4,626.11	4,613.59	24.56	21.42	157.58	-264.59	318.10	1,073.32	1,030.12	43.20	24.844		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #12-5-4CHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 39-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,780.16	4,767.60	24.98	22.02	157.89	-266.26	319.48	1,083.07	1,038.62	44.44	24.370		
5,000.00	4,861.80	4,881.37	4,868.79	25.38	22.39	158.06	-265.18	320.24	1,088.29	1,043.04	45.25	24.050		
5,100.00	4,961.73	4,978.54	4,965.96	25.76	22.76	158.19	-263.79	320.12	1,090.41	1,044.38	46.03	23.692		
5,151.69	5,013.42	5,028.29	5,015.70	25.95	22.96	-149.87	-263.01	319.72	1,090.35	1,043.93	46.42	23.489		
5,200.00	5,061.73	5,074.63	5,062.04	26.13	23.14	-149.83	-262.30	319.19	1,089.99	1,043.20	46.79	23.298		
5,300.00	5,161.73	5,171.25	5,158.63	26.49	23.52	-149.72	-260.83	317.66	1,089.48	1,041.93	47.55	22.911		
5,357.90	5,219.63	5,225.26	5,212.63	26.70	23.74	-149.67	-260.22	316.82	1,089.36	1,041.37	47.98	22.702		
5,400.00	5,261.73	5,263.92	5,251.28	26.86	23.90	-149.66	-260.23	316.73	1,089.42	1,041.13	48.29	22.558		
5,500.00	5,361.73	5,365.47	5,352.84	27.23	24.31	-149.71	-260.95	317.28	1,089.76	1,040.65	49.11	22.191		
5,600.00	5,461.73	5,472.47	5,459.83	27.60	24.74	-149.69	-260.64	317.04	1,089.63	1,039.67	49.96	21.808		
5,624.97	5,486.70	5,492.33	5,479.70	27.69	24.82	-149.68	-260.51	316.90	1,089.57	1,039.44	50.13	21.736		
5,700.00	5,561.73	5,551.60	5,538.96	27.97	25.07	-149.65	-260.59	316.19	1,090.11	1,039.50	50.61	21.539		
5,800.00	5,661.73	5,657.99	5,645.33	28.35	25.52	-149.57	-261.18	314.26	1,091.53	1,040.05	51.48	21.202		
5,900.00	5,761.73	5,767.71	5,755.01	28.72	25.98	-149.44	-260.29	311.86	1,091.94	1,039.57	52.37	20.851		
5,904.57	5,766.30	5,772.71	5,760.01	28.74	26.00	-149.44	-260.21	311.74	1,091.94	1,039.53	52.41	20.835		
6,000.00	5,861.73	5,850.50	5,837.78	29.10	26.33	-149.36	-260.08	310.05	1,092.81	1,039.76	53.05	20.599		
6,100.00	5,961.73	5,985.24	5,972.51	29.48	26.87	-149.29	-258.91	309.26	1,092.22	1,038.11	54.11	20.184		
6,200.00	6,061.73	6,078.05	6,065.29	29.86	27.24	-149.20	-256.85	308.49	1,090.75	1,035.88	54.87	19.879		
6,300.00	6,161.73	6,170.71	6,157.94	30.25	27.62	-149.15	-256.11	307.82	1,090.41	1,034.78	55.63	19.601		
6,400.00	6,261.73	6,276.06	6,263.27	30.63	28.05	-149.02	-254.20	306.19	1,089.64	1,033.16	56.48	19.292		
6,451.69	6,313.42	6,324.85	6,312.05	30.83	28.24	-148.99	-253.62	305.85	1,089.30	1,032.42	56.88	19.150		
6,500.00	6,361.68	6,378.56	6,365.75	31.01	28.46	-56.70	-252.99	305.56	1,087.93	1,030.63	57.30	18.985		
6,550.00	6,411.34	6,434.66	6,421.84	31.20	28.68	-57.20	-251.71	304.85	1,084.13	1,026.39	57.74	18.778		
6,600.00	6,460.39	6,490.25	6,477.41	31.38	28.90	-58.17	-250.89	305.57	1,077.94	1,019.78	58.16	18.533		
6,650.00	6,508.54	6,579.45	6,566.17	31.58	29.24	-60.40	-251.70	313.60	1,069.16	1,010.40	58.76	18.197		
6,700.00	6,555.48	6,673.30	6,656.71	31.78	29.56	-64.19	-255.93	337.40	1,056.41	997.13	59.28	17.820		
6,750.00	6,600.93	6,736.10	6,714.43	31.98	29.76	-68.01	-260.70	361.63	1,041.49	981.77	59.72	17.440		
6,800.00	6,644.61	6,786.99	6,760.67	32.20	29.91	-71.73	-263.96	382.63	1,025.66	965.51	60.15	17.052		
6,850.00	6,686.25	6,844.38	6,812.43	32.44	30.08	-76.08	-266.54	407.28	1,009.45	948.83	60.62	16.653		
6,900.00	6,725.58	7,006.94	6,947.28	32.68	30.53	-86.95	-267.45	496.62	992.82	931.84	60.98	16.282		
6,950.00	6,762.38	7,012.03	6,951.00	32.96	30.54	-88.80	-267.35	500.09	976.62	914.97	61.65	15.842		
7,000.00	6,796.41	7,011.83	6,950.85	33.25	30.54	-90.10	-267.35	499.95	962.66	900.37	62.30	15.453		
7,050.00	6,827.46	7,006.62	6,947.04	33.58	30.53	-90.85	-267.45	496.40	951.13	888.21	62.91	15.118		
7,100.00	6,855.34	6,999.34	6,941.69	33.93	30.50	-91.23	-267.59	491.46	942.10	878.61	63.49	14.839		
7,150.00	6,879.88	6,976.16	6,924.43	34.33	30.44	-90.43	-267.93	476.00	935.59	871.61	63.98	14.623		
7,200.00	6,900.93	6,956.17	6,908.81	34.76	30.39	-89.60	-268.08	463.52	931.48	867.04	64.44	14.455		
7,250.00	6,918.36	6,937.79	6,893.91	35.23	30.34	-88.67	-268.12	452.78	929.77	864.88	64.89	14.329		
7,261.59	6,921.87	6,933.69	6,890.50	35.35	30.33	-88.43	-268.11	450.48	929.71	864.72	64.99	14.305		
7,300.00	6,932.05	6,920.36	6,879.30	35.74	30.29	-87.58	-268.05	443.27	930.38	865.05	65.33	14.242		
7,350.00	6,941.94	6,905.38	6,866.44	36.29	30.25	-86.46	-267.91	435.60	933.22	867.42	65.80	14.183		
7,400.00	6,947.94	6,880.94	6,844.94	36.87	30.18	-84.62	-267.53	423.99	938.13	871.96	66.17	14.178 SF		
7,450.00	6,950.04	6,853.91	6,820.94	37.47	30.10	-82.51	-266.85	411.56	944.76	878.26	66.50	14.208		
7,458.56	6,950.00	6,849.05	6,816.60	37.58	30.09	-82.13	-266.69	409.37	946.04	879.50	66.55	14.216		
7,500.00	6,949.56	6,826.10	6,796.03	38.11	30.02	-80.88	-265.85	399.23	953.02	886.21	66.80	14.266		
7,600.00	6,948.48	6,771.65	6,746.75	39.51	29.86	-77.90	-263.07	376.25	975.19	907.83	67.36	14.477		
7,700.00	6,947.40	6,717.86	6,697.82	41.06	29.70	-74.97	-259.31	354.24	1,004.56	936.75	67.81	14.815		
7,800.00	6,946.32	6,708.00	6,688.82	42.74	29.67	-74.43	-258.52	350.27	1,041.32	972.38	68.94	15.105		
7,900.00	6,945.24	6,679.69	6,662.69	44.55	29.58	-72.88	-256.37	339.61	1,085.07	1,015.47	69.60	15.589		
8,000.00	6,944.16	6,666.83	6,650.62	46.46	29.54	-72.18	-255.51	335.24	1,135.73	1,065.34	70.39	16.134		
8,100.00	6,943.08	6,655.52	6,639.92	48.47	29.50	-71.56	-254.82	331.65	1,192.30	1,121.23	71.06	16.778		
8,200.00	6,942.01	6,645.51	6,630.38	50.55	29.47	-71.01	-254.26	328.66	1,254.03	1,182.42	71.62	17.511		
8,300.00	6,940.93	6,613.00	6,599.02	52.71	29.36	-69.23	-252.77	320.25	1,320.95	1,249.21	71.74	18.414		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 39-MWD													Boomerang 21-5 - SRC Wiedeman #12-5-4CHZ - OH - OH		Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
8,400.00	6,939.85	6,613.00	6,599.02	54.93	29.36	-69.23	-252.77	320.25	1,390.64	1,318.42	72.23	19.254				
8,500.00	6,938.77	6,613.00	6,599.02	57.20	29.36	-69.23	-252.77	320.25	1,463.86	1,391.25	72.61	20.161				
8,600.00	6,937.69	6,613.00	6,599.02	59.53	29.36	-69.23	-252.77	320.25	1,540.09	1,467.18	72.91	21.124				
8,700.00	6,936.61	6,613.00	6,599.02	61.89	29.36	-69.23	-252.77	320.25	1,618.90	1,545.77	73.14	22.135				
8,800.00	6,935.54	6,613.00	6,599.02	64.30	29.36	-69.23	-252.77	320.25	1,699.95	1,626.64	73.31	23.188				
8,900.00	6,934.46	6,613.00	6,599.02	66.74	29.36	-69.23	-252.77	320.25	1,782.93	1,709.49	73.44	24.277				
9,000.00	6,933.38	6,613.00	6,599.02	69.21	29.36	-69.23	-252.77	320.25	1,867.57	1,794.03	73.54	25.397				
9,100.00	6,932.30	6,613.00	6,599.02	71.71	29.36	-69.23	-252.77	320.25	1,953.66	1,880.06	73.60	26.543				
9,200.00	6,931.22	6,613.00	6,599.02	74.23	29.36	-69.23	-252.77	320.25	2,041.02	1,967.37	73.65	27.712				
9,300.00	6,930.14	6,613.00	6,599.02	76.78	29.36	-69.23	-252.77	320.25	2,129.50	2,055.82	73.68	28.902				
9,400.00	6,929.06	6,613.00	6,599.02	79.34	29.36	-69.23	-252.77	320.25	2,218.95	2,145.26	73.70	30.109				
9,500.00	6,927.99	6,574.22	6,561.01	81.93	29.22	-67.13	-251.57	312.75	2,307.54	2,234.06	73.48	31.402				
9,600.00	6,926.91	6,571.18	6,558.00	84.53	29.21	-66.97	-251.50	312.28	2,398.36	2,324.88	73.48	32.640				
9,700.00	6,925.83	6,568.33	6,555.19	87.14	29.20	-66.82	-251.43	311.85	2,489.86	2,416.39	73.47	33.890				
9,800.00	6,924.75	6,565.66	6,552.55	89.77	29.19	-66.67	-251.38	311.47	2,581.97	2,508.51	73.46	35.150				
9,900.00	6,923.67	6,563.15	6,550.06	92.41	29.18	-66.54	-251.33	311.12	2,674.63	2,601.19	73.44	36.418				
10,000.00	6,922.59	6,560.79	6,547.72	95.07	29.17	-66.42	-251.28	310.80	2,767.80	2,694.37	73.43	37.695				
10,100.00	6,921.51	6,558.56	6,545.51	97.73	29.16	-66.30	-251.24	310.50	2,861.41	2,788.00	73.41	38.979				
10,200.00	6,920.44	6,518.00	6,505.13	100.40	29.01	-64.18	-250.83	306.79	2,957.08	2,883.86	73.22	40.387				
10,300.00	6,919.36	6,518.00	6,505.13	103.08	29.01	-64.18	-250.83	306.79	3,051.30	2,978.08	73.22	41.674				
10,400.00	6,918.28	6,518.00	6,505.13	105.77	29.01	-64.18	-250.83	306.79	3,145.88	3,072.66	73.22	42.968				
10,500.00	6,917.20	6,518.00	6,505.13	108.47	29.01	-64.18	-250.83	306.79	3,240.78	3,167.57	73.21	44.266				
10,600.00	6,916.12	6,518.00	6,505.13	111.18	29.01	-64.18	-250.83	306.79	3,335.98	3,262.77	73.21	45.568				
10,700.00	6,915.04	6,518.00	6,505.13	113.89	29.01	-64.18	-250.83	306.79	3,431.46	3,358.25	73.21	46.874				
10,800.00	6,913.96	6,518.00	6,505.13	116.61	29.01	-64.18	-250.83	306.79	3,527.18	3,453.98	73.20	48.184				
10,900.00	6,912.89	6,518.00	6,505.13	119.33	29.01	-64.18	-250.83	306.79	3,623.14	3,549.94	73.20	49.496				
11,000.00	6,911.81	6,518.00	6,505.13	122.06	29.01	-64.18	-250.83	306.79	3,719.30	3,646.11	73.20	50.812				
11,100.00	6,910.73	6,518.00	6,505.13	124.79	29.01	-64.18	-250.83	306.79	3,815.67	3,742.47	73.20	52.129				
11,200.00	6,909.65	6,518.00	6,505.13	127.53	29.01	-64.18	-250.83	306.79	3,912.22	3,839.02	73.20	53.448				
11,300.00	6,908.57	6,518.00	6,505.13	130.27	29.01	-64.18	-250.83	306.79	4,008.93	3,935.74	73.20	54.769				
11,400.00	6,907.49	6,518.00	6,505.13	133.02	29.01	-64.18	-250.83	306.79	4,105.81	4,032.61	73.20	56.091				
11,500.00	6,906.41	6,518.00	6,505.13	135.77	29.01	-64.18	-250.83	306.79	4,202.83	4,129.63	73.20	57.414				
11,600.00	6,905.34	6,518.00	6,505.13	138.52	29.01	-64.18	-250.83	306.79	4,299.99	4,226.78	73.21	58.738				
11,700.00	6,904.26	6,518.00	6,505.13	141.28	29.01	-64.18	-250.83	306.79	4,397.27	4,324.06	73.21	60.062				
11,800.00	6,903.18	6,518.00	6,505.13	144.04	29.01	-64.18	-250.83	306.79	4,494.68	4,421.46	73.22	61.387				
11,900.00	6,902.10	6,518.00	6,505.13	146.80	29.01	-64.18	-250.83	306.79	4,592.19	4,518.97	73.23	62.712				
12,000.00	6,901.02	6,518.00	6,505.13	149.57	29.01	-64.18	-250.83	306.79	4,689.81	4,616.58	73.24	64.037				
12,100.00	6,899.94	6,518.00	6,505.13	152.34	29.01	-64.18	-250.83	306.79	4,787.53	4,714.28	73.25	65.362				
12,200.00	6,898.87	6,518.00	6,505.13	155.11	29.01	-64.18	-250.83	306.79	4,885.34	4,812.08	73.26	66.687				
12,300.00	6,897.79	6,518.00	6,505.13	157.89	29.01	-64.18	-250.83	306.79	4,983.24	4,909.97	73.27	68.011				
12,400.00	6,896.71	6,518.00	6,505.13	160.66	29.01	-64.18	-250.83	306.79	5,081.22	5,007.93	73.29	69.335				
12,500.00	6,895.63	6,518.00	6,505.13	163.44	29.01	-64.18	-250.83	306.79	5,179.27	5,105.97	73.30	70.658				
12,600.00	6,894.55	6,518.00	6,505.13	166.22	29.01	-64.18	-250.83	306.79	5,277.40	5,204.09	73.32	71.980				
12,700.00	6,893.47	6,518.00	6,505.13	169.00	29.01	-64.18	-250.83	306.79	5,375.60	5,302.27	73.34	73.301				
12,800.00	6,892.39	6,518.00	6,505.13	171.79	29.01	-64.18	-250.83	306.79	5,473.87	5,400.51	73.36	74.620				
12,900.00	6,891.32	6,518.00	6,505.13	174.57	29.01	-64.18	-250.83	306.79	5,572.19	5,498.82	73.38	75.939				
13,000.00	6,890.24	6,518.00	6,505.13	177.36	29.01	-64.18	-250.83	306.79	5,670.58	5,597.18	73.40	77.257				
13,100.00	6,889.16	6,518.00	6,505.13	180.15	29.01	-64.18	-250.83	306.79	5,769.02	5,695.59	73.42	78.573				
13,200.00	6,888.08	6,518.00	6,505.13	182.94	29.01	-64.18	-250.83	306.79	5,867.51	5,794.06	73.45	79.888				
13,300.00	6,887.00	6,518.00	6,505.13	185.74	29.01	-64.18	-250.83	306.79	5,966.05	5,892.58	73.47	81.201				
13,400.00	6,885.92	6,518.00	6,505.13	188.53	29.01	-64.18	-250.83	306.79	6,064.64	5,991.14	73.50	82.512				
13,500.00	6,884.84	6,518.00	6,505.13	191.32	29.01	-64.18	-250.83	306.79	6,163.28	6,089.75	73.53	83.822				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #12-5-4CHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 39-MWWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,600.00	6,883.77	6,518.00	6,505.13	194.12	29.01	-64.18	-250.83	306.79	6,261.96	6,188.40	73.56	85.130		
13,700.00	6,882.69	6,518.00	6,505.13	196.92	29.01	-64.18	-250.83	306.79	6,360.68	6,287.09	73.59	86.436		
13,800.00	6,881.61	6,518.00	6,505.13	199.72	29.01	-64.18	-250.83	306.79	6,459.44	6,385.82	73.62	87.740		
13,900.00	6,880.53	6,518.00	6,505.13	202.52	29.01	-64.18	-250.83	306.79	6,558.24	6,484.58	73.65	89.043		
14,000.00	6,879.45	6,518.00	6,505.13	205.32	29.01	-64.18	-250.83	306.79	6,657.07	6,583.38	73.69	90.343		
14,100.00	6,878.37	6,518.00	6,505.13	208.12	29.01	-64.18	-250.83	306.79	6,755.94	6,682.21	73.72	91.641		
14,200.00	6,877.29	6,518.00	6,505.13	210.92	29.01	-64.18	-250.83	306.79	6,854.84	6,781.08	73.76	92.937		
14,300.00	6,876.22	6,518.00	6,505.13	213.73	29.01	-64.18	-250.83	306.79	6,953.77	6,879.97	73.80	94.230		
14,400.00	6,875.14	6,518.00	6,505.13	216.53	29.01	-64.18	-250.83	306.79	7,052.73	6,978.90	73.83	95.522		
14,500.00	6,874.06	6,518.00	6,505.13	219.34	29.01	-64.18	-250.83	306.79	7,151.72	7,077.85	73.87	96.811		
14,600.00	6,872.98	6,518.00	6,505.13	222.15	29.01	-64.18	-250.83	306.79	7,250.74	7,176.83	73.91	98.097		
14,700.00	6,871.90	6,518.00	6,505.13	224.95	29.01	-64.18	-250.83	306.79	7,349.78	7,275.83	73.96	99.381		
14,800.00	6,870.82	6,518.00	6,505.13	227.76	29.01	-64.18	-250.83	306.79	7,448.86	7,374.86	74.00	100.663		
14,900.00	6,869.75	6,518.00	6,505.13	230.57	29.01	-64.18	-250.83	306.79	7,547.95	7,473.91	74.04	101.942		
15,000.00	6,868.67	6,518.00	6,505.13	233.38	29.01	-64.18	-250.83	306.79	7,647.07	7,572.98	74.09	103.219		
15,100.00	6,867.59	6,518.00	6,505.13	236.19	29.01	-64.18	-250.83	306.79	7,746.21	7,672.08	74.13	104.493		
15,200.00	6,866.51	6,518.00	6,505.13	239.00	29.01	-64.18	-250.83	306.79	7,845.37	7,771.20	74.18	105.764		
15,300.00	6,865.43	6,518.00	6,505.13	241.81	29.01	-64.18	-250.83	306.79	7,944.56	7,870.33	74.23	107.032		
15,400.00	6,864.35	6,518.00	6,505.13	244.63	29.01	-64.18	-250.83	306.79	8,043.76	7,969.49	74.27	108.298		
15,500.00	6,863.27	6,518.00	6,505.13	247.44	29.01	-64.18	-250.83	306.79	8,142.99	8,068.66	74.32	109.561		
15,600.00	6,862.20	6,518.00	6,505.13	250.25	29.01	-64.18	-250.83	306.79	8,242.23	8,167.85	74.37	110.821		
15,618.10	6,862.00	6,518.00	6,505.13	250.76	29.01	-64.18	-250.83	306.79	8,260.19	8,185.81	74.38	111.049		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #12-5-4NCHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 39-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	95.69	-50.63	508.03	510.60					
100.00	100.00	96.36	96.35	3.28	3.30	95.74	-51.02	507.53	510.10	503.52	6.58	77.495		
200.00	200.00	198.54	198.52	3.34	3.37	95.87	-52.11	506.59	509.29	502.58	6.71	75.890		
300.00	299.98	302.32	302.28	3.44	3.51	44.33	-53.43	504.94	506.60	499.64	6.95	72.840		
400.00	399.84	405.24	405.17	3.61	3.69	45.01	-54.67	502.55	500.70	493.40	7.30	68.581		
500.00	499.45	509.27	509.15	3.81	3.93	46.03	-55.43	499.42	491.69	483.95	7.74	63.525		
600.00	598.70	603.17	603.00	4.06	4.17	47.32	-56.18	496.49	480.32	472.10	8.22	58.428		
700.00	697.47	697.43	697.23	4.35	4.44	49.03	-57.44	494.48	467.94	459.17	8.77	53.377		
800.00	795.62	791.15	790.93	4.66	4.73	51.20	-59.20	493.19	454.59	445.22	9.37	48.538		
900.00	893.06	880.90	880.64	5.01	5.01	53.78	-61.50	492.90	440.97	430.98	10.00	44.104		
961.44	952.51	938.48	938.18	5.25	5.20	55.71	-63.45	493.29	432.80	422.38	10.42	41.544		
1,000.00	989.71	975.40	975.08	5.40	5.33	56.95	-64.71	493.57	427.73	417.04	10.69	40.008		
1,100.00	1,086.20	1,072.45	1,072.07	5.81	5.67	60.35	-68.28	494.10	415.50	404.06	11.43	36.347		
1,200.00	1,182.69	1,178.01	1,177.53	6.24	6.05	64.41	-72.61	493.09	403.75	391.51	12.24	32.984		
1,300.00	1,279.18	1,260.13	1,259.59	6.69	6.35	67.63	-75.51	492.87	394.16	381.17	12.99	30.336		
1,400.00	1,375.67	1,361.65	1,361.04	7.15	6.73	71.45	-78.37	495.48	388.43	374.60	13.83	28.081		
1,500.00	1,472.15	1,468.83	1,468.08	7.62	7.15	76.20	-82.57	492.82	381.09	366.36	14.72	25.881		
1,600.00	1,568.64	1,572.09	1,571.05	8.10	7.57	81.37	-87.35	486.60	374.10	358.47	15.63	23.936		
1,700.00	1,665.13	1,665.57	1,664.03	8.59	7.96	86.50	-92.40	478.52	368.91	352.39	16.52	22.327		
1,761.10	1,724.09	1,718.32	1,716.40	8.89	8.19	89.59	-96.17	473.42	367.84	350.79	17.06	21.564 CC, ES		
1,800.00	1,761.62	1,751.36	1,749.19	9.08	8.33	91.54	-98.84	470.36	368.28	350.89	17.39	21.172		
1,900.00	1,858.11	1,835.47	1,832.60	9.58	8.70	96.50	-106.84	463.07	373.50	355.26	18.24	20.480		
2,000.00	1,954.60	1,915.28	1,911.60	10.08	9.07	101.09	-116.35	456.94	384.93	365.91	19.01	20.246		
2,100.00	2,051.09	1,999.57	1,994.89	10.59	9.45	105.53	-128.52	452.51	402.77	382.99	19.78	20.362		
2,200.00	2,147.57	2,094.47	2,088.80	11.09	9.89	109.89	-141.78	449.32	423.62	402.99	20.63	20.534		
2,300.00	2,244.06	2,194.65	2,188.16	11.61	10.35	113.84	-154.41	447.47	445.76	424.23	21.52	20.709		
2,400.00	2,340.55	2,292.74	2,285.63	12.12	10.80	117.40	-165.10	444.85	467.90	445.50	22.39	20.893		
2,500.00	2,437.04	2,385.76	2,378.04	12.64	11.24	120.56	-175.26	441.68	491.55	468.33	23.22	21.173		
2,600.00	2,533.53	2,479.45	2,470.97	13.15	11.68	123.75	-185.64	435.92	516.66	492.62	24.04	21.491		
2,700.00	2,630.02	2,568.57	2,559.31	13.67	12.12	126.64	-195.47	429.32	543.21	518.40	24.82	21.889		
2,800.00	2,726.50	2,653.99	2,643.74	14.19	12.54	129.29	-205.90	421.74	572.30	546.76	25.55	22.402		
2,900.00	2,822.99	2,746.48	2,735.09	14.72	13.00	131.93	-217.69	413.34	603.18	576.83	26.36	22.885		
3,000.00	2,919.48	2,847.14	2,834.71	15.24	13.51	134.44	-229.59	405.17	634.18	606.92	27.26	23.261		
3,100.00	3,015.97	2,947.29	2,934.07	15.76	14.00	136.57	-240.42	398.79	664.85	636.68	28.17	23.605		
3,200.00	3,112.46	3,043.77	3,029.92	16.29	14.46	138.36	-250.14	393.69	695.28	666.25	29.03	23.951		
3,300.00	3,208.95	3,131.45	3,117.01	16.81	14.89	139.89	-258.96	388.69	726.37	696.57	29.80	24.375		
3,400.00	3,305.44	3,213.85	3,198.73	17.34	15.30	141.23	-268.22	383.52	759.15	728.64	30.51	24.880		
3,500.00	3,401.92	3,301.28	3,285.29	17.87	15.74	142.58	-278.87	377.42	793.41	762.13	31.28	25.362		
3,600.00	3,498.41	3,411.61	3,394.63	18.40	16.29	144.15	-291.46	369.83	827.41	795.09	32.32	25.602		
3,700.00	3,594.90	3,521.10	3,503.52	18.93	16.82	145.49	-301.46	364.29	859.10	825.77	33.33	25.773		
3,800.00	3,691.39	3,604.98	3,586.96	19.46	17.23	146.41	-309.15	360.49	891.03	856.95	34.08	26.146		
3,900.00	3,787.88	3,678.37	3,659.82	19.99	17.59	147.15	-317.21	357.08	924.84	890.13	34.71	26.647		
4,000.00	3,884.37	3,742.88	3,723.65	20.52	17.92	147.75	-325.94	353.64	961.28	926.07	35.22	27.295		
4,100.00	3,980.85	3,819.72	3,799.37	21.05	18.33	148.41	-338.16	349.07	1,000.12	964.25	35.87	27.879		
4,200.00	4,077.34	3,906.81	3,885.07	21.58	18.80	149.08	-352.83	344.11	1,039.86	1,003.20	36.66	28.362		
4,300.00	4,173.83	4,014.24	3,990.85	22.11	19.37	149.83	-370.67	338.32	1,079.45	1,041.73	37.72	28.620		
4,390.25	4,260.91	4,136.97	4,112.24	22.59	20.01	150.60	-388.01	333.22	1,112.95	1,073.99	38.95	28.572		
4,400.00	4,270.32	4,150.85	4,126.01	22.64	20.08	150.72	-389.70	332.73	1,116.36	1,077.27	39.09	28.559		
4,500.00	4,367.33	4,253.90	4,228.31	23.16	20.59	151.60	-401.74	329.61	1,149.29	1,109.24	40.05	28.698		
4,600.00	4,465.13	4,343.82	4,317.60	23.65	21.04	152.25	-411.97	326.86	1,179.12	1,138.27	40.85	28.864		
4,700.00	4,563.60	4,421.07	4,394.21	24.12	21.43	152.80	-421.13	323.31	1,207.07	1,165.57	41.50	29.086		
4,800.00	4,662.61	4,538.88	4,511.07	24.56	22.02	153.41	-434.53	316.66	1,232.10	1,189.52	42.58	28.937		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #12-5-4NCHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 39-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,618.20	4,589.74	24.98	22.43	153.81	-443.39	311.72	1,254.12	1,210.89	43.22	29.015		
5,000.00	4,861.80	4,728.67	4,699.32	25.38	22.99	154.16	-455.77	305.11	1,273.07	1,228.87	44.19	28.806		
5,100.00	4,961.73	4,834.86	4,804.69	25.76	23.52	154.27	-468.28	301.17	1,288.47	1,243.36	45.10	28.566		
5,151.69	5,013.42	4,906.92	4,876.30	25.95	23.87	-153.85	-476.12	299.41	1,294.49	1,248.75	45.74	28.299		
5,200.00	5,061.73	4,971.97	4,941.05	26.13	24.18	-153.91	-482.23	297.98	1,299.04	1,252.73	46.30	28.054		
5,300.00	5,161.73	5,138.93	5,107.62	26.49	24.94	-153.99	-492.74	294.74	1,305.77	1,258.08	47.69	27.379		
5,400.00	5,261.73	5,277.45	5,246.11	26.86	25.50	-154.04	-495.24	294.77	1,307.18	1,258.41	48.77	26.804		
5,500.00	5,361.73	5,402.86	5,371.50	27.23	25.97	-153.97	-494.08	293.50	1,306.77	1,257.06	49.70	26.291		
5,600.00	5,461.73	5,510.21	5,478.80	27.60	26.36	-153.84	-491.22	291.71	1,305.11	1,254.59	50.52	25.834		
5,700.00	5,561.73	5,608.14	5,576.65	27.97	26.71	-153.68	-488.02	289.24	1,303.29	1,252.00	51.29	25.412		
5,800.00	5,661.73	5,704.67	5,673.15	28.35	27.06	-153.60	-485.89	288.20	1,301.78	1,249.74	52.05	25.011		
5,900.00	5,761.73	5,807.74	5,776.19	28.72	27.43	-153.65	-485.06	289.91	1,300.33	1,247.48	52.85	24.603		
6,000.00	5,861.73	5,892.98	5,861.42	29.10	27.74	-153.65	-483.90	290.47	1,298.89	1,245.32	53.56	24.250		
6,021.67	5,883.40	5,907.95	5,876.40	29.18	27.80	-153.65	-483.85	290.45	1,298.83	1,245.13	53.70	24.188		
6,100.00	5,961.73	5,979.41	5,947.86	29.48	28.08	-153.64	-484.26	289.98	1,299.42	1,245.14	54.29	23.937		
6,200.00	6,061.73	6,093.53	6,061.96	29.86	28.52	-153.58	-483.13	289.16	1,298.77	1,243.60	55.18	23.539		
6,300.00	6,161.73	6,199.65	6,168.07	30.25	28.93	-153.55	-482.46	288.80	1,298.38	1,242.37	56.01	23.180		
6,400.00	6,261.73	6,308.32	6,276.71	30.63	29.33	-153.47	-480.10	287.82	1,296.83	1,239.97	56.86	22.809		
6,451.69	6,313.42	6,368.70	6,337.08	30.83	29.55	-153.45	-478.87	287.98	1,295.84	1,238.53	57.31	22.611		
6,500.00	6,361.68	6,439.12	6,407.47	31.01	29.80	-61.30	-477.14	289.22	1,293.56	1,235.78	57.78	22.386		
6,550.00	6,411.34	6,560.49	6,528.17	31.20	30.22	-62.70	-472.78	300.22	1,286.93	1,228.56	58.37	22.048		
6,600.00	6,460.39	6,671.09	6,635.16	31.38	30.57	-65.52	-472.06	327.73	1,277.16	1,218.37	58.80	21.722		
6,650.00	6,508.54	6,713.88	6,674.75	31.58	30.70	-67.74	-473.14	343.90	1,264.62	1,205.43	59.19	21.367		
6,700.00	6,555.48	6,754.57	6,711.28	31.78	30.80	-70.25	-475.14	361.70	1,251.18	1,191.59	59.59	20.995		
6,750.00	6,600.93	6,788.09	6,740.69	31.98	30.90	-72.73	-477.25	377.64	1,237.35	1,177.35	60.00	20.622		
6,800.00	6,644.61	6,956.40	6,878.53	32.20	31.27	-81.38	-483.82	473.47	1,222.16	1,161.66	60.50	20.201		
6,850.00	6,686.25	6,992.58	6,905.23	32.44	31.34	-84.56	-484.21	497.89	1,206.75	1,145.71	61.04	19.769		
6,900.00	6,725.58	7,010.84	6,918.21	32.68	31.37	-86.77	-484.33	510.72	1,192.67	1,131.04	61.63	19.353		
6,950.00	6,762.38	7,015.10	6,921.20	32.96	31.37	-88.14	-484.35	513.75	1,180.27	1,118.09	62.18	18.981		
7,000.00	6,796.41	7,010.43	6,917.93	33.25	31.37	-88.87	-484.33	510.43	1,169.74	1,107.05	62.69	18.658		
7,050.00	6,827.46	6,999.84	6,910.43	33.58	31.35	-89.13	-484.27	502.96	1,161.17	1,098.00	63.16	18.383		
7,100.00	6,855.34	6,986.50	6,900.82	33.93	31.33	-89.08	-484.16	493.68	1,154.56	1,090.94	63.61	18.150		
7,150.00	6,879.88	6,971.51	6,889.84	34.33	31.30	-88.77	-484.00	483.50	1,149.89	1,085.84	64.05	17.953		
7,200.00	6,900.93	6,954.65	6,877.21	34.76	31.27	-88.21	-483.80	472.32	1,147.13	1,082.65	64.48	17.791		
7,250.00	6,918.36	6,936.34	6,863.19	35.23	31.23	-87.44	-483.54	460.56	1,146.17	1,081.27	64.90	17.660		
7,252.34	6,919.08	6,935.46	6,862.50	35.26	31.23	-87.39	-483.53	460.00	1,146.17	1,081.25	64.92	17.655		
7,300.00	6,932.05	6,916.92	6,847.97	35.74	31.19	-86.47	-483.22	448.49	1,146.93	1,081.60	65.33	17.556		
7,350.00	6,941.94	6,893.55	6,829.22	36.29	31.15	-85.21	-482.78	434.55	1,149.26	1,083.52	65.74	17.481		
7,400.00	6,947.94	6,847.47	6,791.26	36.87	31.04	-82.86	-481.11	408.51	1,152.72	1,086.80	65.92	17.486		
7,450.00	6,950.04	6,804.00	6,754.42	37.47	30.94	-80.59	-478.40	385.59	1,156.92	1,090.81	66.10	17.501		
7,458.56	6,950.00	6,804.00	6,754.42	37.58	30.94	-80.52	-478.40	385.59	1,157.71	1,091.48	66.23	17.479		
7,500.00	6,949.56	6,788.80	6,741.30	38.11	30.90	-79.87	-477.30	377.99	1,162.24	1,095.57	66.67	17.432		
7,600.00	6,948.48	6,761.54	6,717.45	39.51	30.82	-78.69	-475.54	364.92	1,178.28	1,110.39	67.89	17.357 SF		
7,700.00	6,947.40	6,737.09	6,695.69	41.06	30.76	-77.62	-474.21	353.84	1,201.43	1,132.30	69.13	17.379		
7,800.00	6,946.32	6,709.00	6,670.31	42.74	30.68	-76.39	-472.95	341.88	1,231.48	1,161.20	70.27	17.524		
7,900.00	6,945.24	6,709.00	6,670.31	44.55	30.68	-76.39	-472.95	341.88	1,268.11	1,196.41	71.70	17.686		
8,000.00	6,944.16	6,688.80	6,651.73	46.46	30.62	-75.50	-472.33	333.99	1,310.82	1,238.08	72.74	18.020		
8,100.00	6,943.08	6,664.00	6,628.45	48.47	30.55	-74.39	-472.06	325.44	1,359.64	1,286.04	73.60	18.473		
8,200.00	6,942.01	6,664.00	6,628.45	50.55	30.55	-74.39	-472.06	325.44	1,413.09	1,338.47	74.62	18.936		
8,300.00	6,940.93	6,664.00	6,628.45	52.71	30.55	-74.39	-472.06	325.44	1,471.40	1,395.91	75.50	19.490		
8,400.00	6,939.85	6,647.45	6,612.70	54.93	30.50	-73.65	-472.06	320.35	1,533.79	1,457.71	76.08	20.160		
8,500.00	6,938.77	6,636.51	6,602.22	57.20	30.46	-73.16	-472.06	317.21	1,599.79	1,523.17	76.62	20.880		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,600.00	6,937.69	6,614.00	6,580.51	59.53	30.39	-72.15	-472.08	311.28	1,669.14	1,592.17	76.96	21.688		
8,700.00	6,936.61	6,614.00	6,580.51	61.89	30.39	-72.15	-472.08	311.28	1,741.06	1,663.63	77.43	22.487		
8,800.00	6,935.54	6,614.00	6,580.51	64.30	30.39	-72.15	-472.08	311.28	1,815.64	1,737.83	77.81	23.335		
8,900.00	6,934.46	6,614.00	6,580.51	66.74	30.39	-72.15	-472.08	311.28	1,892.57	1,814.45	78.12	24.225		
9,000.00	6,933.38	6,614.00	6,580.51	69.21	30.39	-72.15	-472.08	311.28	1,971.58	1,893.19	78.38	25.153		
9,100.00	6,932.30	6,614.00	6,580.51	71.71	30.39	-72.15	-472.08	311.28	2,052.41	1,973.82	78.59	26.115		
9,200.00	6,931.22	6,614.00	6,580.51	74.23	30.39	-72.15	-472.08	311.28	2,134.87	2,056.10	78.76	27.105		
9,300.00	6,930.14	6,614.00	6,580.51	76.78	30.39	-72.15	-472.08	311.28	2,218.77	2,139.87	78.90	28.121		
9,400.00	6,929.06	6,577.72	6,545.12	79.34	30.27	-70.54	-472.41	303.31	2,302.62	2,223.79	78.84	29.207		
9,500.00	6,927.99	6,573.48	6,540.96	81.93	30.26	-70.36	-472.49	302.51	2,388.64	2,309.72	78.92	30.267		
9,600.00	6,926.91	6,569.51	6,537.05	84.53	30.25	-70.18	-472.57	301.78	2,475.67	2,396.69	78.98	31.345		
9,700.00	6,925.83	6,565.76	6,533.37	87.14	30.23	-70.02	-472.65	301.12	2,563.62	2,484.59	79.03	32.437		
9,800.00	6,924.75	6,562.23	6,529.89	89.77	30.22	-69.86	-472.74	300.52	2,652.40	2,573.33	79.07	33.544		
9,900.00	6,923.67	6,558.90	6,526.60	92.41	30.21	-69.72	-472.82	299.96	2,741.93	2,662.82	79.10	34.663		
10,000.00	6,922.59	6,519.00	6,487.09	95.07	30.08	-67.99	-474.23	294.66	2,833.46	2,754.47	78.99	35.871		
10,100.00	6,921.51	6,519.00	6,487.09	97.73	30.08	-67.99	-474.23	294.66	2,924.08	2,845.05	79.03	37.002		
10,200.00	6,920.44	6,519.00	6,487.09	100.40	30.08	-67.99	-474.23	294.66	3,015.29	2,936.23	79.05	38.143		
10,300.00	6,919.36	6,519.00	6,487.09	103.08	30.08	-67.99	-474.23	294.66	3,107.04	3,027.96	79.07	39.292		
10,400.00	6,918.28	6,519.00	6,487.09	105.77	30.08	-67.99	-474.23	294.66	3,199.28	3,120.19	79.09	40.450		
10,500.00	6,917.20	6,519.00	6,487.09	108.47	30.08	-67.99	-474.23	294.66	3,291.98	3,212.88	79.10	41.615		
10,600.00	6,916.12	6,519.00	6,487.09	111.18	30.08	-67.99	-474.23	294.66	3,385.10	3,305.98	79.11	42.787		
10,700.00	6,915.04	6,519.00	6,487.09	113.89	30.08	-67.99	-474.23	294.66	3,478.59	3,399.47	79.12	43.965		
10,800.00	6,913.96	6,519.00	6,487.09	116.61	30.08	-67.99	-474.23	294.66	3,572.44	3,493.32	79.13	45.148		
10,900.00	6,912.89	6,519.00	6,487.09	119.33	30.08	-67.99	-474.23	294.66	3,666.62	3,587.49	79.13	46.337		
11,000.00	6,911.81	6,519.00	6,487.09	122.06	30.08	-67.99	-474.23	294.66	3,761.09	3,681.96	79.13	47.529		
11,100.00	6,910.73	6,519.00	6,487.09	124.79	30.08	-67.99	-474.23	294.66	3,855.84	3,776.71	79.13	48.725		
11,200.00	6,909.65	6,519.00	6,487.09	127.53	30.08	-67.99	-474.23	294.66	3,950.86	3,871.72	79.14	49.925		
11,300.00	6,908.57	6,519.00	6,487.09	130.27	30.08	-67.99	-474.23	294.66	4,046.11	3,966.97	79.14	51.128		
11,400.00	6,907.49	6,519.00	6,487.09	133.02	30.08	-67.99	-474.23	294.66	4,141.58	4,062.45	79.14	52.334		
11,500.00	6,906.41	6,519.00	6,487.09	135.77	30.08	-67.99	-474.23	294.66	4,237.27	4,158.13	79.14	53.542		
11,600.00	6,905.34	6,519.00	6,487.09	138.52	30.08	-67.99	-474.23	294.66	4,333.15	4,254.01	79.14	54.753		
11,700.00	6,904.26	6,519.00	6,487.09	141.28	30.08	-67.99	-474.23	294.66	4,429.21	4,350.07	79.14	55.965		
11,800.00	6,903.18	6,519.00	6,487.09	144.04	30.08	-67.99	-474.23	294.66	4,525.44	4,446.30	79.15	57.179		
11,900.00	6,902.10	6,519.00	6,487.09	146.80	30.08	-67.99	-474.23	294.66	4,621.84	4,542.69	79.15	58.394		
12,000.00	6,901.02	6,519.00	6,487.09	149.57	30.08	-67.99	-474.23	294.66	4,718.38	4,639.23	79.15	59.611		
12,100.00	6,899.94	6,519.00	6,487.09	152.34	30.08	-67.99	-474.23	294.66	4,815.06	4,735.91	79.16	60.829		
12,200.00	6,898.87	6,519.00	6,487.09	155.11	30.08	-67.99	-474.23	294.66	4,911.88	4,832.72	79.16	62.047		
12,300.00	6,897.79	6,519.00	6,487.09	157.89	30.08	-67.99	-474.23	294.66	5,008.82	4,929.65	79.17	63.266		
12,400.00	6,896.71	6,519.00	6,487.09	160.66	30.08	-67.99	-474.23	294.66	5,105.88	5,026.70	79.18	64.486		
12,500.00	6,895.63	6,519.00	6,487.09	163.44	30.08	-67.99	-474.23	294.66	5,203.05	5,123.87	79.19	65.706		
12,600.00	6,894.55	6,519.00	6,487.09	166.22	30.08	-67.99	-474.23	294.66	5,300.33	5,221.13	79.20	66.926		
12,700.00	6,893.47	6,519.00	6,487.09	169.00	30.08	-67.99	-474.23	294.66	5,397.71	5,318.50	79.21	68.146		
12,800.00	6,892.39	6,519.00	6,487.09	171.79	30.08	-67.99	-474.23	294.66	5,495.18	5,415.96	79.22	69.366		
12,900.00	6,891.32	6,519.00	6,487.09	174.57	30.08	-67.99	-474.23	294.66	5,592.74	5,513.50	79.23	70.586		
13,000.00	6,890.24	6,519.00	6,487.09	177.36	30.08	-67.99	-474.23	294.66	5,690.38	5,611.13	79.25	71.806		
13,100.00	6,889.16	6,519.00	6,487.09	180.15	30.08	-67.99	-474.23	294.66	5,788.10	5,708.84	79.26	73.025		
13,200.00	6,888.08	6,519.00	6,487.09	182.94	30.08	-67.99	-474.23	294.66	5,885.91	5,806.63	79.28	74.244		
13,300.00	6,887.00	6,519.00	6,487.09	185.74	30.08	-67.99	-474.23	294.66	5,983.78	5,904.48	79.30	75.461		
13,400.00	6,885.92	6,519.00	6,487.09	188.53	30.08	-67.99	-474.23	294.66	6,081.72	6,002.41	79.31	76.679		
13,500.00	6,884.84	6,519.00	6,487.09	191.32	30.08	-67.99	-474.23	294.66	6,179.73	6,100.40	79.33	77.895		
13,600.00	6,883.77	6,519.00	6,487.09	194.12	30.08	-67.99	-474.23	294.66	6,277.80	6,198.45	79.35	79.111		
13,700.00	6,882.69	6,519.00	6,487.09	196.92	30.08	-67.99	-474.23	294.66	6,375.93	6,296.56	79.38	80.325		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC Wiedeman #12-5-4NCHZ - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 39-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
13,800.00	6,881.61	6,519.00	6,487.09	199.72	30.08	-67.99	-474.23	294.66	6,474.12	6,394.72	79.40	81.539			
13,900.00	6,880.53	6,519.00	6,487.09	202.52	30.08	-67.99	-474.23	294.66	6,572.37	6,492.94	79.42	82.751			
14,000.00	6,879.45	6,479.84	6,448.11	205.32	29.95	-66.34	-475.81	291.31	6,669.91	6,590.51	79.41	83.999			
14,100.00	6,878.37	6,478.61	6,446.89	208.12	29.94	-66.29	-475.86	291.22	6,768.21	6,688.78	79.43	85.209			
14,200.00	6,877.29	6,477.42	6,445.70	210.92	29.94	-66.24	-475.90	291.14	6,866.56	6,787.10	79.46	86.419			
14,300.00	6,876.22	6,476.25	6,444.53	213.73	29.93	-66.19	-475.94	291.07	6,964.95	6,885.47	79.48	87.627			
14,400.00	6,875.14	6,475.12	6,443.40	216.53	29.93	-66.15	-475.98	290.99	7,063.39	6,983.87	79.51	88.834			
14,500.00	6,874.06	6,474.01	6,442.30	219.34	29.93	-66.10	-476.02	290.92	7,161.87	7,082.32	79.54	90.039			
14,600.00	6,872.98	6,472.93	6,441.22	222.15	29.92	-66.05	-476.06	290.85	7,260.38	7,180.81	79.57	91.243			
14,700.00	6,871.90	6,471.88	6,440.17	224.95	29.92	-66.01	-476.10	290.79	7,358.94	7,279.34	79.60	92.445			
14,800.00	6,870.82	6,470.85	6,439.15	227.76	29.91	-65.97	-476.13	290.72	7,457.54	7,377.90	79.64	93.645			
14,900.00	6,869.75	6,469.85	6,438.14	230.57	29.91	-65.93	-476.17	290.66	7,556.17	7,476.50	79.67	94.844			
15,000.00	6,868.67	6,468.87	6,437.17	233.38	29.91	-65.89	-476.20	290.60	7,654.83	7,575.13	79.70	96.041			
15,100.00	6,867.59	6,467.91	6,436.21	236.19	29.90	-65.85	-476.23	290.55	7,753.53	7,673.79	79.74	97.236			
15,200.00	6,866.51	6,466.97	6,435.28	239.00	29.90	-65.81	-476.27	290.49	7,852.26	7,772.49	79.78	98.429			
15,300.00	6,865.43	6,466.06	6,434.36	241.81	29.90	-65.77	-476.30	290.44	7,951.03	7,871.21	79.81	99.620			
15,400.00	6,864.35	6,465.16	6,433.47	244.63	29.89	-65.73	-476.33	290.39	8,049.82	7,969.97	79.85	100.809			
15,500.00	6,863.27	6,464.29	6,432.60	247.44	29.89	-65.70	-476.36	290.34	8,148.64	8,068.75	79.89	101.996			
15,600.00	6,862.20	6,424.00	6,392.36	250.25	29.75	-64.05	-477.55	288.80	8,248.23	8,168.35	79.88	103.254			
15,618.10	6,862.00	6,424.00	6,392.36	250.76	29.75	-64.05	-477.55	288.80	8,266.12	8,186.22	79.89	103.468			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 168-MWD													Offset Well Error:	3.28 ft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	87.33	24.05	515.55	516.16					
100.00	100.00	99.01	99.00	3.28	3.29	87.35	23.82	514.98	515.57	508.99	6.57	78.443		
200.00	200.00	202.28	202.26	3.34	3.32	87.41	23.20	513.28	513.89	507.23	6.66	77.164		
300.00	299.98	299.02	298.99	3.44	3.41	35.63	23.46	511.78	510.94	504.08	6.86	74.511		
400.00	399.84	395.59	395.54	3.61	3.55	35.83	25.11	510.94	505.89	498.73	7.15	70.727		
500.00	499.45	492.32	492.19	3.81	3.73	36.04	28.99	510.49	498.52	490.98	7.54	66.141		
600.00	598.70	589.32	588.90	4.06	3.95	36.10	36.38	510.61	489.06	481.05	8.00	61.102		
700.00	697.47	687.25	686.46	4.35	4.21	36.30	44.95	510.91	477.03	468.48	8.55	55.816		
800.00	795.62	786.37	785.18	4.66	4.51	36.79	53.71	511.52	462.52	453.36	9.16	50.512		
900.00	893.06	886.76	884.95	5.01	4.85	37.34	64.79	511.66	444.87	435.04	9.83	45.242		
961.44	952.51	949.05	946.60	5.25	5.08	37.57	73.72	511.46	432.46	422.18	10.28	42.051		
1,000.00	989.71	989.00	986.03	5.40	5.23	37.57	80.13	511.08	424.13	413.55	10.58	40.085		
1,100.00	1,086.20	1,088.33	1,083.76	5.81	5.64	37.31	97.79	509.48	401.93	390.57	11.37	35.359		
1,200.00	1,182.69	1,185.94	1,179.63	6.24	6.07	36.87	116.07	507.77	379.63	367.44	12.19	31.139		
1,300.00	1,279.18	1,282.11	1,274.13	6.69	6.52	36.43	133.82	506.22	357.49	344.44	13.04	27.404		
1,400.00	1,375.67	1,380.85	1,371.17	7.15	6.99	35.92	152.02	504.72	335.46	321.53	13.93	24.080		
1,500.00	1,472.15	1,482.14	1,470.93	7.62	7.48	35.55	169.45	502.42	312.65	297.82	14.83	21.075		
1,600.00	1,568.64	1,577.63	1,565.06	8.10	7.94	35.27	185.28	499.88	289.44	273.70	15.74	18.389		
1,700.00	1,665.13	1,679.10	1,665.12	8.59	8.44	34.97	201.84	496.85	265.89	249.23	16.66	15.960		
1,800.00	1,761.62	1,772.32	1,757.06	9.08	8.91	34.66	216.96	494.02	242.30	224.71	17.59	13.776		
1,900.00	1,858.11	1,865.53	1,849.92	9.58	9.38	34.17	232.66	492.75	220.39	201.85	18.53	11.890		
2,000.00	1,954.60	1,961.98	1,943.95	10.08	9.88	33.51	249.16	492.62	199.72	180.23	19.49	10.247		
2,100.00	2,051.09	2,059.45	2,039.72	10.59	10.39	32.22	267.31	492.81	179.58	159.12	20.47	8.775		
2,200.00	2,147.57	2,161.22	2,139.64	11.09	10.94	30.34	286.58	491.79	158.43	137.00	21.43	7.393		
2,300.00	2,244.06	2,261.39	2,238.22	11.61	11.48	28.38	303.99	488.43	134.94	112.57	22.37	6.032		
2,400.00	2,340.55	2,356.99	2,332.02	12.12	12.00	24.87	322.11	484.73	111.52	88.17	23.35	4.775		
2,500.00	2,437.04	2,453.41	2,426.62	12.64	12.53	19.69	340.46	481.93	89.65	65.33	24.32	3.687		
2,600.00	2,533.53	2,549.83	2,521.37	13.15	13.06	12.15	358.25	480.09	69.54	44.31	25.23	2.756		
2,700.00	2,630.02	2,646.18	2,615.80	13.67	13.60	-0.70	377.40	480.13	53.91	27.89	26.03	2.071		
2,800.00	2,726.50	2,744.21	2,711.73	14.19	14.16	-22.30	397.56	480.14	43.61	16.98	26.63	1.638		
2,864.45	2,788.69	2,807.25	2,773.43	14.53	14.52	-40.56	410.48	479.74	41.39	14.33	27.06	1.529 CC, ES, SF		
2,900.00	2,822.99	2,841.95	2,807.40	14.72	14.72	-51.10	417.56	479.33	42.11	14.71	27.40	1.537		
3,000.00	2,919.48	2,939.48	2,902.88	15.24	15.28	-76.76	437.33	477.39	51.29	22.57	28.72	1.786		
3,100.00	3,015.97	3,037.01	2,998.48	15.76	15.84	-92.83	456.60	475.74	66.80	36.70	30.10	2.219		
3,200.00	3,112.46	3,134.82	3,094.42	16.29	16.40	-103.02	475.47	473.47	85.71	54.35	31.36	2.733		
3,300.00	3,208.95	3,232.52	3,190.43	16.81	16.94	-109.64	493.48	471.86	105.28	72.77	32.51	3.238		
3,400.00	3,305.44	3,331.39	3,287.65	17.34	17.49	-114.38	511.40	470.04	125.82	92.17	33.65	3.739		
3,500.00	3,401.92	3,430.28	3,385.00	17.87	18.04	-117.71	528.79	469.91	145.20	110.44	34.76	4.178		
3,600.00	3,498.41	3,527.99	3,481.20	18.40	18.57	-120.26	545.85	469.74	164.92	129.10	35.81	4.605		
3,700.00	3,594.90	3,625.35	3,577.14	18.93	19.10	-122.42	562.40	469.34	184.97	148.12	36.85	5.020		
3,800.00	3,691.39	3,722.41	3,672.79	19.46	19.63	-124.17	578.95	468.62	205.55	167.68	37.87	5.427		
3,900.00	3,787.88	3,819.11	3,767.69	19.99	20.18	-125.06	597.47	468.15	226.59	187.69	38.90	5.824		
4,000.00	3,884.37	3,915.36	3,862.04	20.52	20.74	-125.68	616.50	467.31	248.19	208.26	39.93	6.215		
4,100.00	3,980.85	4,011.39	3,956.18	21.05	21.29	-126.27	635.35	465.88	270.37	229.42	40.95	6.602		
4,200.00	4,077.34	4,108.58	4,051.59	21.58	21.85	-126.93	653.76	463.88	292.95	250.95	42.00	6.976		
4,300.00	4,173.83	4,203.01	4,144.37	22.11	22.38	-127.58	671.21	461.52	315.88	272.90	42.97	7.350		
4,390.25	4,260.91	4,298.00	4,237.74	22.59	22.92	-128.19	688.49	459.19	336.53	292.48	44.05	7.639		
4,400.00	4,270.32	4,308.75	4,248.30	22.64	22.98	-128.27	690.53	459.13	338.59	294.42	44.18	7.665		
4,500.00	4,367.33	4,406.49	4,344.27	23.16	23.53	-128.68	708.99	458.89	358.24	313.03	45.21	7.924		
4,600.00	4,465.13	4,502.84	4,438.99	23.65	24.08	-128.74	726.63	458.03	376.25	330.06	46.19	8.145		
4,700.00	4,563.60	4,598.49	4,533.08	24.12	24.61	-128.49	743.77	456.47	392.76	345.62	47.13	8.333		
4,800.00	4,662.61	4,704.98	4,637.81	24.56	25.21	-127.73	763.01	455.32	406.69	358.45	48.24	8.431		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #21-5-3CHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 168-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,802.13	4,733.36	24.98	25.75	-126.67	780.57	455.01	417.92	368.75	49.16	8.501		
5,000.00	4,861.80	4,898.92	4,828.61	25.38	26.29	-125.35	797.69	454.19	427.72	377.67	50.05	8.546		
5,100.00	4,961.73	4,996.32	4,924.55	25.76	26.83	-123.80	814.46	452.70	436.36	385.45	50.91	8.571		
5,151.69	5,013.42	5,051.19	4,978.66	25.95	27.13	-70.92	823.53	451.96	440.04	388.62	51.42	8.558		
5,200.00	5,061.73	5,099.53	5,026.36	26.13	27.39	-69.98	831.34	451.60	443.02	391.18	51.84	8.547		
5,300.00	5,161.73	5,192.43	5,117.86	26.49	27.90	-68.10	847.43	450.50	450.40	397.81	52.59	8.565		
5,400.00	5,261.73	5,289.01	5,212.96	26.86	28.44	-66.24	864.13	448.70	458.94	405.55	53.39	8.596		
5,500.00	5,361.73	5,383.57	5,305.95	27.23	28.97	-64.46	881.12	446.14	468.99	414.84	54.15	8.660		
5,600.00	5,461.73	5,491.40	5,411.93	27.60	29.58	-62.38	900.91	444.86	478.37	423.24	55.13	8.677		
5,700.00	5,561.73	5,589.62	5,508.68	27.97	30.13	-60.66	917.82	443.93	487.51	431.57	55.94	8.715		
5,800.00	5,661.73	5,693.61	5,611.36	28.35	30.68	-59.11	934.17	442.06	497.04	440.23	56.81	8.749		
5,900.00	5,761.73	5,799.44	5,716.33	28.72	31.21	-57.89	947.55	440.70	504.77	447.08	57.69	8.750		
6,000.00	5,861.73	5,910.48	5,826.81	29.10	31.72	-57.02	958.19	438.29	511.82	453.24	58.58	8.737		
6,100.00	5,961.73	6,030.03	5,946.22	29.48	32.20	-56.61	963.58	436.76	515.36	455.90	59.47	8.666		
6,200.00	6,061.73	6,144.21	6,060.40	29.86	32.58	-56.60	963.58	436.90	515.20	454.97	60.23	8.554		
6,300.00	6,161.73	6,241.03	6,157.21	30.25	32.89	-56.66	962.84	437.01	514.68	453.73	60.95	8.444		
6,400.00	6,261.73	6,348.77	6,264.94	30.63	33.24	-56.66	961.98	438.30	513.23	451.54	61.69	8.320		
6,451.69	6,313.42	6,401.00	6,317.16	30.83	33.42	-56.61	961.83	439.47	512.17	450.11	62.07	8.252		
6,500.00	6,361.68	6,494.10	6,409.90	31.01	33.73	36.87	962.60	446.79	507.94	445.80	62.14	8.174		
6,550.00	6,411.34	6,634.16	6,542.71	31.20	34.23	42.61	969.85	488.65	490.74	430.39	60.35	8.132		
6,600.00	6,460.39	6,675.68	6,580.87	31.38	34.37	46.33	972.33	504.84	470.27	409.55	60.72	7.745		
6,650.00	6,508.54	6,712.19	6,614.58	31.58	34.50	50.41	974.10	518.73	448.28	387.10	61.18	7.327		
6,700.00	6,555.48	6,749.75	6,649.48	31.78	34.62	55.29	975.88	532.51	425.64	364.12	61.52	6.919		
6,750.00	6,600.93	6,892.76	6,773.13	31.98	35.02	74.95	973.41	603.11	397.61	341.88	55.73	7.135		
6,800.00	6,644.61	6,914.32	6,790.03	32.20	35.06	81.64	972.00	616.40	368.41	311.78	56.62	6.506		
6,850.00	6,686.25	6,932.03	6,803.65	32.44	35.09	87.51	970.88	627.69	342.41	284.62	57.79	5.925		
6,900.00	6,725.58	6,943.07	6,812.00	32.68	35.12	91.65	970.23	634.87	321.42	262.02	59.40	5.411		
6,950.00	6,762.38	6,948.75	6,816.26	32.96	35.13	94.07	969.90	638.61	307.08	245.92	61.15	5.021		
7,000.00	6,796.41	6,950.00	6,817.20	33.25	35.13	94.89	969.83	639.44	300.70	237.98	62.72	4.795		
7,012.32	6,804.35	6,949.73	6,816.99	33.33	35.13	94.86	969.85	639.26	300.43	237.40	63.04	4.766		
7,050.00	6,827.46	6,947.60	6,815.40	33.58	35.12	94.24	969.97	637.85	302.87	239.08	63.79	4.748		
7,100.00	6,855.34	6,942.16	6,811.32	33.93	35.11	92.25	970.28	634.27	313.33	249.05	64.28	4.874		
7,150.00	6,879.88	6,934.18	6,805.28	34.33	35.10	89.05	970.75	629.07	331.05	266.76	64.29	5.149		
7,200.00	6,900.93	6,923.90	6,797.42	34.76	35.08	84.77	971.39	622.47	354.64	290.61	64.03	5.539		
7,250.00	6,918.36	6,911.70	6,788.00	35.23	35.05	79.65	972.16	614.76	382.61	318.93	63.67	6.009		
7,300.00	6,932.05	6,897.91	6,777.21	35.74	35.02	73.96	973.08	606.23	413.66	350.31	63.35	6.529		
7,350.00	6,941.94	6,885.00	6,766.97	36.29	35.00	68.32	973.97	598.41	446.74	383.53	63.20	7.068		
7,400.00	6,947.94	6,865.85	6,751.49	36.87	34.95	62.03	975.21	587.20	480.95	417.92	63.02	7.631		
7,450.00	6,950.04	6,848.51	6,737.14	37.47	34.91	56.39	976.16	577.52	515.67	452.63	63.04	8.180		
7,458.56	6,950.00	6,845.49	6,734.61	37.58	34.91	55.47	976.30	575.88	521.63	458.57	63.05	8.273		
7,500.00	6,949.56	6,837.00	6,727.45	38.11	34.89	54.63	976.68	571.34	551.03	487.72	63.31	8.704		
7,600.00	6,948.48	6,801.86	6,696.91	39.51	34.79	51.18	977.34	554.00	625.64	562.16	63.48	9.856		
7,700.00	6,947.40	6,777.36	6,674.84	41.06	34.71	48.81	976.87	543.36	704.81	640.98	63.84	11.041		
7,800.00	6,946.32	6,755.95	6,655.22	42.74	34.64	46.80	976.14	534.84	787.49	723.29	64.20	12.267		
7,900.00	6,945.24	6,726.58	6,627.93	44.55	34.54	44.16	974.78	524.06	872.83	808.49	64.34	13.566		
8,000.00	6,944.16	6,665.90	6,571.86	46.46	34.34	39.38	971.79	501.06	959.03	895.14	63.90	15.008		
8,100.00	6,943.08	6,605.43	6,516.42	48.47	34.13	35.32	967.81	477.25	1,045.42	981.92	63.50	16.464		
8,200.00	6,942.01	6,600.00	6,511.46	50.55	34.11	34.98	967.40	475.08	1,132.75	1,068.69	64.06	17.682		
8,300.00	6,940.93	6,600.00	6,511.46	52.71	34.11	34.98	967.40	475.08	1,222.02	1,157.43	64.59	18.921		
8,400.00	6,939.85	6,600.00	6,511.46	54.93	34.11	34.98	967.40	475.08	1,312.83	1,247.84	65.00	20.198		
8,500.00	6,938.77	6,600.00	6,511.46	57.20	34.11	34.98	967.40	475.08	1,404.90	1,339.57	65.33	21.504		
8,600.00	6,937.69	6,560.29	6,474.40	59.53	33.97	32.65	964.80	461.12	1,495.28	1,430.03	65.25	22.917		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 168-MWD													Offset Well Error:	3.28 ft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	6,936.61	6,554.47	6,468.84	61.89	33.95	32.33	964.50	459.40	1,588.39	1,522.93	65.47	24.263		
8,800.00	6,935.54	6,549.18	6,463.77	64.30	33.93	32.04	964.25	457.93	1,682.20	1,616.54	65.66	25.621		
8,900.00	6,934.46	6,544.35	6,459.13	66.74	33.91	31.78	964.03	456.64	1,776.60	1,710.78	65.82	26.991		
9,000.00	6,933.38	6,505.00	6,420.68	69.21	33.77	29.79	962.80	448.42	1,873.52	1,807.77	65.75	28.493		
9,100.00	6,932.30	6,505.00	6,420.68	71.71	33.77	29.79	962.80	448.42	1,968.44	1,902.51	65.93	29.858		
9,200.00	6,931.22	6,505.00	6,420.68	74.23	33.77	29.79	962.80	448.42	2,063.83	1,997.75	66.08	31.233		
9,300.00	6,930.14	6,505.00	6,420.68	76.78	33.77	29.79	962.80	448.42	2,159.64	2,093.43	66.21	32.618		
9,400.00	6,929.06	6,505.00	6,420.68	79.34	33.77	29.79	962.80	448.42	2,255.81	2,189.48	66.33	34.010		
9,500.00	6,927.99	6,505.00	6,420.68	81.93	33.77	29.79	962.80	448.42	2,352.30	2,285.87	66.43	35.409		
9,600.00	6,926.91	6,505.00	6,420.68	84.53	33.77	29.79	962.80	448.42	2,449.07	2,382.55	66.53	36.814		
9,700.00	6,925.83	6,505.00	6,420.68	87.14	33.77	29.79	962.80	448.42	2,546.10	2,479.48	66.61	38.223		
9,800.00	6,924.75	6,505.00	6,420.68	89.77	33.77	29.79	962.80	448.42	2,643.34	2,576.65	66.69	39.636		
9,900.00	6,923.67	6,505.00	6,420.68	92.41	33.77	29.79	962.80	448.42	2,740.78	2,674.02	66.76	41.053		
10,000.00	6,922.59	6,505.00	6,420.68	95.07	33.77	29.79	962.80	448.42	2,838.40	2,771.57	66.83	42.472		
10,100.00	6,921.51	6,505.00	6,420.68	97.73	33.77	29.79	962.80	448.42	2,936.19	2,869.29	66.89	43.893		
10,200.00	6,920.44	6,505.00	6,420.68	100.40	33.77	29.79	962.80	448.42	3,034.11	2,967.16	66.95	45.316		
10,300.00	6,919.36	6,505.00	6,420.68	103.08	33.77	29.79	962.80	448.42	3,132.17	3,065.16	67.01	46.740		
10,400.00	6,918.28	6,505.00	6,420.68	105.77	33.77	29.79	962.80	448.42	3,230.34	3,163.28	67.07	48.165		
10,500.00	6,917.20	6,505.00	6,420.68	108.47	33.77	29.79	962.80	448.42	3,328.63	3,261.51	67.12	49.591		
10,600.00	6,916.12	6,505.00	6,420.68	111.18	33.77	29.79	962.80	448.42	3,427.01	3,359.84	67.17	51.017		
10,700.00	6,915.04	6,505.00	6,420.68	113.89	33.77	29.79	962.80	448.42	3,525.49	3,458.26	67.23	52.443		
10,800.00	6,913.96	6,505.00	6,420.68	116.61	33.77	29.79	962.80	448.42	3,624.04	3,556.77	67.28	53.869		
10,900.00	6,912.89	6,505.00	6,420.68	119.33	33.77	29.79	962.80	448.42	3,722.68	3,655.35	67.32	55.294		
11,000.00	6,911.81	6,505.00	6,420.68	122.06	33.77	29.79	962.80	448.42	3,821.39	3,754.01	67.37	56.719		
11,100.00	6,910.73	6,505.00	6,420.68	124.79	33.77	29.79	962.80	448.42	3,920.16	3,852.73	67.42	58.143		
11,200.00	6,909.65	6,505.00	6,420.68	127.53	33.77	29.79	962.80	448.42	4,018.99	3,951.52	67.47	59.566		
11,300.00	6,908.57	6,505.00	6,420.68	130.27	33.77	29.79	962.80	448.42	4,117.88	4,050.36	67.52	60.987		
11,400.00	6,907.49	6,505.00	6,420.68	133.02	33.77	29.79	962.80	448.42	4,216.82	4,149.25	67.57	62.408		
11,500.00	6,906.41	6,505.00	6,420.68	135.77	33.77	29.79	962.80	448.42	4,315.81	4,248.19	67.62	63.827		
11,600.00	6,905.34	6,505.00	6,420.68	138.52	33.77	29.79	962.80	448.42	4,414.84	4,347.18	67.67	65.244		
11,700.00	6,904.26	6,505.00	6,420.68	141.28	33.77	29.79	962.80	448.42	4,513.92	4,446.21	67.72	66.659		
11,800.00	6,903.18	6,505.00	6,420.68	144.04	33.77	29.79	962.80	448.42	4,613.04	4,545.27	67.77	68.073		
11,900.00	6,902.10	6,505.00	6,420.68	146.80	33.77	29.79	962.80	448.42	4,712.20	4,644.38	67.82	69.485		
12,000.00	6,901.02	6,505.00	6,420.68	149.57	33.77	29.79	962.80	448.42	4,811.39	4,743.52	67.87	70.894		
12,100.00	6,899.94	6,505.00	6,420.68	152.34	33.77	29.79	962.80	448.42	4,910.61	4,842.69	67.92	72.301		
12,200.00	6,898.87	6,464.52	6,380.54	155.11	33.63	27.98	962.18	443.19	5,008.55	4,940.61	67.95	73.714		
12,300.00	6,897.79	6,463.13	6,379.17	157.89	33.63	27.92	962.17	443.05	5,107.75	5,039.75	68.00	75.115		
12,400.00	6,896.71	6,461.79	6,377.84	160.66	33.62	27.86	962.15	442.91	5,206.97	5,138.92	68.05	76.515		
12,500.00	6,895.63	6,460.50	6,376.55	163.44	33.62	27.81	962.14	442.79	5,306.22	5,238.12	68.11	77.911		
12,600.00	6,894.55	6,459.25	6,375.30	166.22	33.62	27.76	962.13	442.67	5,405.50	5,337.34	68.16	79.305		
12,700.00	6,893.47	6,458.04	6,374.10	169.00	33.61	27.71	962.11	442.56	5,504.80	5,436.58	68.22	80.697		
12,800.00	6,892.39	6,456.86	6,372.93	171.79	33.61	27.66	962.10	442.45	5,604.12	5,535.85	68.27	82.085		
12,900.00	6,891.32	6,455.72	6,371.79	174.57	33.60	27.61	962.09	442.35	5,703.46	5,635.13	68.33	83.471		
13,000.00	6,890.24	6,454.62	6,370.69	177.36	33.60	27.57	962.08	442.25	5,802.83	5,734.44	68.39	84.854		
13,100.00	6,889.16	6,453.55	6,369.63	180.15	33.60	27.52	962.07	442.16	5,902.21	5,833.77	68.44	86.234		
13,200.00	6,888.08	6,452.51	6,368.59	182.94	33.59	27.48	962.06	442.07	6,001.61	5,933.11	68.50	87.611		
13,300.00	6,887.00	6,410.00	6,326.15	185.74	33.45	25.84	961.84	439.71	6,102.37	6,033.83	68.55	89.024		
13,400.00	6,885.92	6,410.00	6,326.15	188.53	33.45	25.84	961.84	439.71	6,201.75	6,133.14	68.61	90.393		
13,500.00	6,884.84	6,410.00	6,326.15	191.32	33.45	25.84	961.84	439.71	6,301.14	6,232.47	68.67	91.759		
13,600.00	6,883.77	6,410.00	6,326.15	194.12	33.45	25.84	961.84	439.71	6,400.55	6,331.82	68.73	93.121		
13,700.00	6,882.69	6,410.00	6,326.15	196.92	33.45	25.84	961.84	439.71	6,499.98	6,431.18	68.80	94.481		
13,800.00	6,881.61	6,410.00	6,326.15	199.72	33.45	25.84	961.84	439.71	6,599.43	6,530.57	68.86	95.837		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #21-5-3CHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 168-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,900.00	6,880.53	6,410.00	6,326.15	202.52	33.45	25.84	961.84	439.71	6,698.89	6,629.96	68.93	97.190		
14,000.00	6,879.45	6,410.00	6,326.15	205.32	33.45	25.84	961.84	439.71	6,798.37	6,729.38	68.99	98.540		
14,100.00	6,878.37	6,410.00	6,326.15	208.12	33.45	25.84	961.84	439.71	6,897.86	6,828.81	69.06	99.886		
14,200.00	6,877.29	6,410.00	6,326.15	210.92	33.45	25.84	961.84	439.71	6,997.37	6,928.25	69.12	101.229		
14,300.00	6,876.22	6,410.00	6,326.15	213.73	33.45	25.84	961.84	439.71	7,096.89	7,027.70	69.19	102.568		
14,400.00	6,875.14	6,410.00	6,326.15	216.53	33.45	25.84	961.84	439.71	7,196.43	7,127.17	69.26	103.904		
14,500.00	6,874.06	6,410.00	6,326.15	219.34	33.45	25.84	961.84	439.71	7,295.98	7,226.65	69.33	105.236		
14,600.00	6,872.98	6,410.00	6,326.15	222.15	33.45	25.84	961.84	439.71	7,395.54	7,326.14	69.40	106.565		
14,700.00	6,871.90	6,410.00	6,326.15	224.95	33.45	25.84	961.84	439.71	7,495.11	7,425.64	69.47	107.890		
14,800.00	6,870.82	6,410.00	6,326.15	227.76	33.45	25.84	961.84	439.71	7,594.69	7,525.15	69.54	109.211		
14,900.00	6,869.75	6,410.00	6,326.15	230.57	33.45	25.84	961.84	439.71	7,694.29	7,624.67	69.61	110.528		
15,000.00	6,868.67	6,410.00	6,326.15	233.38	33.45	25.84	961.84	439.71	7,793.89	7,724.20	69.69	111.842		
15,100.00	6,867.59	6,410.00	6,326.15	236.19	33.45	25.84	961.84	439.71	7,893.51	7,823.74	69.76	113.151		
15,200.00	6,866.51	6,410.00	6,326.15	239.00	33.45	25.84	961.84	439.71	7,993.13	7,923.29	69.84	114.457		
15,300.00	6,865.43	6,410.00	6,326.15	241.81	33.45	25.84	961.84	439.71	8,092.76	8,022.85	69.91	115.759		
15,400.00	6,864.35	6,410.00	6,326.15	244.63	33.45	25.84	961.84	439.71	8,192.41	8,122.42	69.99	117.057		
15,500.00	6,863.27	6,410.00	6,326.15	247.44	33.45	25.84	961.84	439.71	8,292.06	8,221.99	70.06	118.352		
15,600.00	6,862.20	6,410.00	6,326.15	250.25	33.45	25.84	961.84	439.71	8,391.72	8,321.57	70.14	119.642		
15,618.10	6,862.00	6,410.00	6,326.15	250.76	33.45	25.84	961.84	439.71	8,409.75	8,339.60	70.15	119.875		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 165-MWD													Offset Well Error:	3.28 ft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	88.98	9.12	513.88	514.01					
100.00	100.00	93.37	93.37	3.28	3.29	89.00	8.98	513.85	513.93	507.35	6.57	78.210		
200.00	200.00	194.69	194.69	3.34	3.32	89.05	8.52	513.72	513.79	507.14	6.65	77.216		
300.00	299.98	298.33	298.32	3.44	3.41	37.40	7.65	513.02	511.72	504.86	6.86	74.603		
400.00	399.84	397.82	397.80	3.61	3.56	37.89	7.00	511.93	506.47	499.31	7.16	70.705		
500.00	499.45	500.61	500.58	3.81	3.76	38.70	6.36	510.68	498.41	490.84	7.57	65.865		
600.00	598.70	600.57	600.52	4.06	3.99	39.84	5.65	508.91	487.19	479.15	8.04	60.565		
700.00	697.47	695.18	695.12	4.35	4.24	41.18	5.56	507.57	473.82	465.25	8.57	55.301		
800.00	795.62	796.05	795.99	4.66	4.52	42.93	6.22	506.34	458.29	449.12	9.17	49.998		
900.00	893.06	893.22	893.13	5.01	4.82	44.94	7.94	504.94	440.30	430.50	9.80	44.926		
961.44	952.51	952.75	952.63	5.25	5.00	46.32	9.88	504.18	428.28	418.07	10.21	41.940		
1,000.00	989.71	990.12	989.96	5.40	5.12	47.10	11.43	503.75	420.55	410.08	10.48	40.143		
1,100.00	1,086.20	1,084.46	1,084.18	5.81	5.44	49.09	16.11	503.09	401.21	390.03	11.18	35.896		
1,200.00	1,182.69	1,179.32	1,178.86	6.24	5.76	51.11	21.78	503.24	383.02	371.10	11.91	32.147		
1,300.00	1,279.18	1,279.77	1,279.10	6.69	6.12	53.37	28.40	503.36	365.20	352.50	12.70	28.755		
1,400.00	1,375.67	1,383.06	1,382.02	7.15	6.51	55.69	36.91	502.70	346.80	333.28	13.52	25.652		
1,500.00	1,472.15	1,487.02	1,485.17	7.62	6.92	57.61	49.78	501.27	326.99	312.62	14.36	22.766		
1,600.00	1,568.64	1,588.66	1,585.68	8.10	7.35	59.40	64.64	498.83	305.84	290.62	15.22	20.091		
1,700.00	1,665.13	1,687.77	1,683.70	8.59	7.77	61.52	78.98	495.33	284.03	267.93	16.10	17.645		
1,800.00	1,761.62	1,785.85	1,780.71	9.08	8.21	64.17	92.61	490.84	261.94	244.95	16.98	15.422		
1,900.00	1,858.11	1,880.43	1,874.39	9.58	8.63	67.38	104.89	486.42	240.80	222.91	17.89	13.458		
2,000.00	1,954.60	1,975.58	1,968.58	10.08	9.06	70.81	118.03	483.43	221.42	202.61	18.82	11.767		
2,100.00	2,051.09	2,071.86	2,063.95	10.59	9.50	74.94	130.95	480.74	203.52	183.77	19.75	10.304		
2,200.00	2,147.57	2,167.81	2,159.12	11.09	9.95	80.04	142.83	477.94	187.46	166.76	20.69	9.058		
2,300.00	2,244.06	2,265.47	2,256.08	11.61	10.40	86.29	154.10	475.10	173.80	152.17	21.63	8.034		
2,400.00	2,340.55	2,366.39	2,356.02	12.12	10.87	93.56	167.66	471.35	160.59	138.05	22.55	7.122		
2,500.00	2,437.04	2,463.98	2,452.38	12.64	11.35	101.12	182.81	468.25	148.70	125.23	23.47	6.335		
2,600.00	2,533.53	2,561.48	2,548.73	13.15	11.83	110.03	197.27	464.66	140.36	115.98	24.38	5.757		
2,700.00	2,630.02	2,661.21	2,646.96	13.67	12.33	119.24	214.29	462.38	133.96	108.71	25.26	5.304		
2,800.00	2,726.50	2,758.31	2,742.47	14.19	12.83	129.09	231.59	459.47	130.57	104.43	26.14	4.995		
2,820.29	2,746.08	2,777.80	2,761.64	14.30	12.93	131.17	235.00	458.76	130.46	104.14	26.32	4.956 CC		
2,900.00	2,822.99	2,855.42	2,838.05	14.72	13.34	139.21	248.43	456.30	131.91	104.88	27.03	4.880		
3,000.00	2,919.48	2,953.22	2,934.38	15.24	13.84	147.97	265.36	455.54	136.66	108.73	27.93	4.893		
3,100.00	3,015.97	3,049.47	3,029.21	15.76	14.34	155.97	281.74	454.35	144.94	116.10	28.84	5.025		
3,200.00	3,112.46	3,145.12	3,123.56	16.29	14.83	163.12	297.27	452.19	157.07	127.30	29.77	5.276		
3,300.00	3,208.95	3,240.44	3,217.69	16.81	15.32	169.23	312.02	449.29	172.47	141.77	30.70	5.618		
3,400.00	3,305.44	3,338.62	3,314.69	17.34	15.82	174.47	326.79	445.89	190.18	158.50	31.68	6.003		
3,500.00	3,401.92	3,434.69	3,409.64	17.87	16.31	178.54	341.20	443.49	208.47	175.83	32.64	6.387		
3,600.00	3,498.41	3,536.50	3,510.26	18.40	16.84	-177.82	356.52	440.73	227.81	194.13	33.68	6.764		
3,700.00	3,594.90	3,633.40	3,605.90	18.93	17.34	-174.91	372.05	439.62	246.02	211.36	34.66	7.097		
3,800.00	3,691.39	3,729.19	3,700.49	19.46	17.84	-172.40	387.03	437.69	265.70	230.06	35.63	7.456		
3,900.00	3,787.88	3,824.92	3,794.95	19.99	18.34	-170.10	402.35	435.00	286.32	249.71	36.61	7.820		
4,000.00	3,884.37	3,919.78	3,888.44	20.52	18.85	-167.96	417.95	431.41	307.99	270.41	37.59	8.195		
4,100.00	3,980.85	4,014.84	3,982.14	21.05	19.35	-166.07	433.46	427.17	330.69	292.13	38.56	8.575		
4,200.00	4,077.34	4,110.20	4,076.23	21.58	19.86	-164.51	448.31	422.74	354.15	314.61	39.54	8.957		
4,300.00	4,173.83	4,204.25	4,169.21	22.11	20.34	-163.34	461.73	418.37	378.31	337.83	40.48	9.345		
4,390.25	4,260.91	4,288.58	4,252.70	22.59	20.77	-162.51	472.88	414.10	400.90	359.59	41.31	9.704		
4,400.00	4,270.32	4,297.68	4,261.70	22.64	20.82	-162.44	474.04	413.62	403.37	361.96	41.40	9.742		
4,500.00	4,367.33	4,409.17	4,372.17	23.16	21.38	-161.64	488.33	409.12	425.83	383.23	42.60	9.996		
4,600.00	4,465.13	4,500.92	4,463.27	23.65	21.83	-161.13	499.15	407.29	443.55	400.10	43.46	10.207		
4,700.00	4,563.60	4,605.43	4,567.31	24.12	22.32	-160.75	508.80	405.68	458.47	414.02	44.45	10.313		
4,800.00	4,662.61	4,696.12	4,657.74	24.56	22.73	-160.52	515.51	404.69	470.31	425.09	45.22	10.400		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 165-MWD													Offset Well Error:	3.28 ft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,792.17	4,753.66	24.98	23.14	-160.38	520.29	403.13	480.17	434.14	46.03	10.433		
5,000.00	4,861.80	4,887.07	4,848.53	25.38	23.51	-160.46	521.99	401.78	487.58	440.82	46.76	10.428		
5,100.00	4,961.73	4,988.49	4,949.94	25.76	23.90	-160.54	522.32	400.44	492.07	444.51	47.56	10.346		
5,151.69	5,013.42	5,039.79	5,001.23	25.95	24.10	-108.61	522.66	399.77	493.04	445.08	47.96	10.281		
5,200.00	5,061.73	5,087.80	5,049.24	26.13	24.29	-108.55	522.99	399.11	493.56	445.24	48.32	10.213		
5,300.00	5,161.73	5,184.74	5,146.17	26.49	24.66	-108.44	523.42	397.47	495.03	445.98	49.05	10.093		
5,400.00	5,261.73	5,284.40	5,245.80	26.86	25.05	-108.33	523.80	395.49	496.79	446.97	49.82	9.972		
5,500.00	5,361.73	5,384.19	5,345.57	27.23	25.44	-108.25	523.87	393.54	498.63	448.04	50.59	9.857		
5,600.00	5,461.73	5,485.41	5,446.78	27.60	25.83	-108.16	524.07	391.61	500.37	448.99	51.39	9.737		
5,700.00	5,561.73	5,592.72	5,554.06	27.97	26.26	-107.95	525.40	389.87	501.55	449.27	52.29	9.592		
5,800.00	5,661.73	5,707.94	5,669.26	28.35	26.71	-107.85	526.79	391.20	500.07	446.81	53.26	9.389		
5,900.00	5,761.73	5,810.36	5,771.60	28.72	27.12	-107.67	529.37	394.14	496.56	442.48	54.08	9.182		
6,000.00	5,861.73	5,897.09	5,858.29	29.10	27.47	-107.49	531.51	395.66	494.19	439.48	54.72	9.032		
6,020.30	5,882.03	5,913.83	5,875.03	29.18	27.53	-107.47	531.64	395.68	494.12	439.29	54.83	9.012		
6,100.00	5,961.73	5,989.15	5,950.35	29.48	27.83	-107.46	531.60	395.09	494.71	439.32	55.39	8.931		
6,200.00	6,061.73	6,088.10	6,049.29	29.86	28.22	-107.35	532.18	393.92	495.66	439.49	56.17	8.824		
6,300.00	6,161.73	6,189.59	6,150.77	30.25	28.62	-107.28	532.47	392.70	496.73	439.74	56.98	8.717		
6,400.00	6,261.73	6,307.61	6,268.75	30.63	29.06	-107.53	530.61	394.08	496.15	438.17	57.98	8.558		
6,451.69	6,313.42	6,405.40	6,366.23	30.83	29.43	-107.73	531.16	401.38	492.48	433.87	58.61	8.403		
6,500.00	6,361.68	6,550.40	6,506.70	31.01	29.93	-16.98	532.45	436.06	478.53	420.82	57.72	8.291		
6,550.00	6,411.34	6,635.96	6,585.90	31.20	30.20	-19.79	531.64	468.32	455.90	399.12	56.78	8.029		
6,600.00	6,460.39	6,724.88	6,664.12	31.38	30.45	-24.84	531.53	510.48	425.89	370.96	54.93	7.753		
6,650.00	6,508.54	6,795.14	6,721.71	31.58	30.64	-32.76	530.99	550.67	389.78	336.63	53.15	7.334		
6,700.00	6,555.48	6,840.09	6,756.38	31.78	30.75	-42.70	530.47	579.27	350.07	297.66	52.41	6.679		
6,750.00	6,600.93	6,871.96	6,779.93	31.98	30.83	-54.71	530.16	600.75	308.64	256.31	52.33	5.898		
6,800.00	6,644.61	6,893.13	6,795.08	32.20	30.90	-67.09	529.98	615.54	266.99	213.95	53.03	5.034		
6,850.00	6,686.25	6,905.96	6,804.07	32.44	30.92	-77.63	529.91	624.68	226.78	172.13	54.65	4.150		
6,900.00	6,725.58	6,912.31	6,808.47	32.68	30.94	-84.96	529.88	629.25	190.21	133.02	57.19	3.326		
6,950.00	6,762.38	6,913.39	6,809.22	32.96	30.94	-88.73	529.88	630.04	160.63	100.26	60.37	2.661		
7,000.00	6,796.41	6,910.18	6,807.00	33.25	30.93	-89.16	529.89	627.72	142.77	80.04	62.73	2.276		
7,029.97	6,815.39	6,906.53	6,804.47	33.45	30.92	-87.96	529.91	625.09	139.66	76.86	62.80	2.224 ES, SF		
7,050.00	6,827.46	6,903.45	6,802.32	33.58	30.92	-86.59	529.92	622.88	141.05	78.90	62.14	2.270		
7,100.00	6,855.34	6,893.82	6,795.56	33.93	30.89	-81.36	529.98	616.02	155.55	96.63	58.92	2.640		
7,150.00	6,879.88	6,881.85	6,787.05	34.33	30.86	-74.05	530.07	607.60	181.86	126.31	55.55	3.274		
7,200.00	6,900.93	6,868.21	6,777.20	34.76	30.82	-65.52	530.20	598.17	215.08	161.76	53.32	4.034		
7,250.00	6,918.36	6,852.97	6,766.00	35.23	30.78	-56.66	530.34	587.83	251.87	199.69	52.18	4.827		
7,300.00	6,932.05	6,836.38	6,753.58	35.74	30.74	-48.35	530.51	576.84	290.28	238.47	51.81	5.603		
7,350.00	6,941.94	6,818.65	6,740.05	36.29	30.70	-41.09	530.71	565.38	329.15	277.23	51.92	6.340		
7,400.00	6,947.94	6,799.93	6,725.49	36.87	30.65	-35.04	530.93	553.62	367.78	315.49	52.29	7.033		
7,450.00	6,950.04	6,790.00	6,717.65	37.47	30.63	-31.03	531.06	547.53	405.90	352.27	53.63	7.569		
7,458.56	6,950.00	6,790.00	6,717.65	37.58	30.63	-30.56	531.06	547.53	412.44	358.45	53.98	7.640		
7,500.00	6,949.56	6,762.86	6,695.79	38.11	30.55	-28.17	531.34	531.45	443.56	389.95	53.61	8.274		
7,600.00	6,948.48	6,730.18	6,668.62	39.51	30.46	-25.64	531.52	513.30	522.46	467.52	54.94	9.510		
7,700.00	6,947.40	6,695.00	6,638.41	41.06	30.37	-23.30	531.50	495.28	604.94	549.21	55.73	10.855		
7,800.00	6,946.32	6,674.89	6,620.75	42.74	30.31	-22.11	531.47	485.66	689.91	633.01	56.90	12.124		
7,900.00	6,945.24	6,650.39	6,598.91	44.55	30.24	-20.77	531.55	474.55	776.94	719.33	57.61	13.487		
8,000.00	6,944.16	6,628.57	6,579.19	46.46	30.17	-19.66	531.71	465.22	865.56	807.36	58.20	14.872		
8,100.00	6,943.08	6,600.00	6,553.00	48.47	30.09	-18.34	532.07	453.82	955.61	897.11	58.50	16.336		
8,200.00	6,942.01	6,600.00	6,553.00	50.55	30.09	-18.34	532.07	453.82	1,046.66	987.36	59.31	17.648		
8,300.00	6,940.93	6,573.53	6,528.41	52.71	30.01	-17.24	532.37	444.04	1,138.54	1,079.06	59.48	19.142		
8,400.00	6,939.85	6,557.70	6,513.57	54.93	29.95	-16.64	532.44	438.52	1,231.26	1,171.47	59.78	20.596		
8,500.00	6,938.77	6,543.14	6,499.84	57.20	29.91	-16.13	532.44	433.66	1,324.63	1,264.59	60.05	22.059		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC Wiedeman #21-5-3NBHZ - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 165-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,600.00	6,937.69	6,505.00	6,463.56	59.53	29.78	-14.96	532.13	421.92	1,419.12	1,359.13	59.99	23.656			
8,700.00	6,936.61	6,505.00	6,463.56	61.89	29.78	-14.96	532.13	421.92	1,513.16	1,452.79	60.36	25.067			
8,800.00	6,935.54	6,505.00	6,463.56	64.30	29.78	-14.96	532.13	421.92	1,607.92	1,547.25	60.67	26.502			
8,900.00	6,934.46	6,505.00	6,463.56	66.74	29.78	-14.96	532.13	421.92	1,703.27	1,642.35	60.93	27.956			
9,000.00	6,933.38	6,505.00	6,463.56	69.21	29.78	-14.96	532.13	421.92	1,799.14	1,737.99	61.14	29.425			
9,100.00	6,932.30	6,505.00	6,463.56	71.71	29.78	-14.96	532.13	421.92	1,895.42	1,834.10	61.33	30.907			
9,200.00	6,931.22	6,505.00	6,463.56	74.23	29.78	-14.96	532.13	421.92	1,992.08	1,930.59	61.48	32.400			
9,300.00	6,930.14	6,505.00	6,463.56	76.78	29.78	-14.96	532.13	421.92	2,089.05	2,027.43	61.62	33.901			
9,400.00	6,929.06	6,467.39	6,427.23	79.34	29.65	-13.96	531.66	412.22	2,184.76	2,123.21	61.56	35.492			
9,500.00	6,927.99	6,462.53	6,422.49	81.93	29.63	-13.84	531.61	411.14	2,281.84	2,220.18	61.66	37.008			
9,600.00	6,926.91	6,457.99	6,418.06	84.53	29.62	-13.73	531.56	410.17	2,379.12	2,317.37	61.75	38.528			
9,700.00	6,925.83	6,453.75	6,413.91	87.14	29.60	-13.62	531.52	409.29	2,476.57	2,414.73	61.84	40.050			
9,800.00	6,924.75	6,449.76	6,410.01	89.77	29.59	-13.53	531.48	408.49	2,574.18	2,512.27	61.92	41.574			
9,900.00	6,923.67	6,410.00	6,370.79	92.41	29.45	-12.64	531.18	401.97	2,673.29	2,611.43	61.87	43.211			
10,000.00	6,922.59	6,410.00	6,370.79	95.07	29.45	-12.64	531.18	401.97	2,770.93	2,708.97	61.96	44.722			
10,100.00	6,921.51	6,410.00	6,370.79	97.73	29.45	-12.64	531.18	401.97	2,868.73	2,806.68	62.05	46.236			
10,200.00	6,920.44	6,410.00	6,370.79	100.40	29.45	-12.64	531.18	401.97	2,966.67	2,904.55	62.13	47.752			
10,300.00	6,919.36	6,410.00	6,370.79	103.08	29.45	-12.64	531.18	401.97	3,064.75	3,002.55	62.20	49.271			
10,400.00	6,918.28	6,410.00	6,370.79	105.77	29.45	-12.64	531.18	401.97	3,162.95	3,100.68	62.27	50.791			
10,500.00	6,917.20	6,410.00	6,370.79	108.47	29.45	-12.64	531.18	401.97	3,261.26	3,198.92	62.34	52.312			
10,600.00	6,916.12	6,410.00	6,370.79	111.18	29.45	-12.64	531.18	401.97	3,359.67	3,297.26	62.41	53.834			
10,700.00	6,915.04	6,410.00	6,370.79	113.89	29.45	-12.64	531.18	401.97	3,458.16	3,395.69	62.47	55.357			
10,800.00	6,913.96	6,410.00	6,370.79	116.61	29.45	-12.64	531.18	401.97	3,556.75	3,494.22	62.53	56.879			
10,900.00	6,912.89	6,410.00	6,370.79	119.33	29.45	-12.64	531.18	401.97	3,655.41	3,592.82	62.59	58.401			
11,000.00	6,911.81	6,410.00	6,370.79	122.06	29.45	-12.64	531.18	401.97	3,754.14	3,691.49	62.65	59.923			
11,100.00	6,910.73	6,410.00	6,370.79	124.79	29.45	-12.64	531.18	401.97	3,852.94	3,790.23	62.71	61.443			
11,200.00	6,909.65	6,410.00	6,370.79	127.53	29.45	-12.64	531.18	401.97	3,951.79	3,889.03	62.76	62.963			
11,300.00	6,908.57	6,410.00	6,370.79	130.27	29.45	-12.64	531.18	401.97	4,050.71	3,987.89	62.82	64.482			
11,400.00	6,907.49	6,410.00	6,370.79	133.02	29.45	-12.64	531.18	401.97	4,149.67	4,086.80	62.87	65.999			
11,500.00	6,906.41	6,410.00	6,370.79	135.77	29.45	-12.64	531.18	401.97	4,248.68	4,185.75	62.93	67.514			
11,600.00	6,905.34	6,410.00	6,370.79	138.52	29.45	-12.64	531.18	401.97	4,347.74	4,284.76	62.98	69.028			
11,700.00	6,904.26	6,410.00	6,370.79	141.28	29.45	-12.64	531.18	401.97	4,446.84	4,383.80	63.04	70.540			
11,800.00	6,903.18	6,410.00	6,370.79	144.04	29.45	-12.64	531.18	401.97	4,545.98	4,482.89	63.09	72.050			
11,900.00	6,902.10	6,410.00	6,370.79	146.80	29.45	-12.64	531.18	401.97	4,645.16	4,582.01	63.15	73.558			
12,000.00	6,901.02	6,410.00	6,370.79	149.57	29.45	-12.64	531.18	401.97	4,744.37	4,681.17	63.20	75.064			
12,100.00	6,899.94	6,410.00	6,370.79	152.34	29.45	-12.64	531.18	401.97	4,843.62	4,780.36	63.26	76.567			
12,200.00	6,898.87	6,410.00	6,370.79	155.11	29.45	-12.64	531.18	401.97	4,942.89	4,879.58	63.32	78.067			
12,300.00	6,897.79	6,410.00	6,370.79	157.89	29.45	-12.64	531.18	401.97	5,042.19	4,978.82	63.37	79.565			
12,400.00	6,896.71	6,410.00	6,370.79	160.66	29.45	-12.64	531.18	401.97	5,141.53	5,078.10	63.43	81.060			
12,500.00	6,895.63	6,410.00	6,370.79	163.44	29.45	-12.64	531.18	401.97	5,240.88	5,177.40	63.49	82.553			
12,600.00	6,894.55	6,410.00	6,370.79	166.22	29.45	-12.64	531.18	401.97	5,340.26	5,276.72	63.54	84.042			
12,700.00	6,893.47	6,410.00	6,370.79	169.00	29.45	-12.64	531.18	401.97	5,439.66	5,376.06	63.60	85.528			
12,800.00	6,892.39	6,410.00	6,370.79	171.79	29.45	-12.64	531.18	401.97	5,539.09	5,475.43	63.66	87.011			
12,900.00	6,891.32	6,410.00	6,370.79	174.57	29.45	-12.64	531.18	401.97	5,638.53	5,574.81	63.72	88.491			
13,000.00	6,890.24	6,410.00	6,370.79	177.36	29.45	-12.64	531.18	401.97	5,738.00	5,674.22	63.78	89.967			
13,100.00	6,889.16	6,410.00	6,370.79	180.15	29.45	-12.64	531.18	401.97	5,837.48	5,773.64	63.84	91.440			
13,200.00	6,888.08	6,410.00	6,370.79	182.94	29.45	-12.64	531.18	401.97	5,936.98	5,873.08	63.90	92.910			
13,300.00	6,887.00	6,410.00	6,370.79	185.74	29.45	-12.64	531.18	401.97	6,036.49	5,972.53	63.96	94.376			
13,400.00	6,885.92	6,410.00	6,370.79	188.53	29.45	-12.64	531.18	401.97	6,136.02	6,072.00	64.02	95.839			
13,500.00	6,884.84	6,369.17	6,330.20	191.32	29.29	-11.83	530.95	397.52	6,234.56	6,170.51	64.05	97.335			
13,600.00	6,883.77	6,367.88	6,328.92	194.12	29.29	-11.81	530.94	397.40	6,334.06	6,269.94	64.12	98.791			
13,700.00	6,882.69	6,366.63	6,327.67	196.92	29.28	-11.79	530.94	397.30	6,433.57	6,369.39	64.18	100.243			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Boomerang 21-5 - SRC Wiedeman #21-5-3NBHZ - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 165-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor	
13,800.00	6,881.61	6,365.41	6,326.46	199.72	29.28	-11.76	530.93	397.19	6,533.10	6,468.85	64.24	101.691		
13,900.00	6,880.53	6,364.22	6,325.27	202.52	29.28	-11.74	530.92	397.09	6,632.64	6,568.33	64.31	103.136		
14,000.00	6,879.45	6,363.06	6,324.12	205.32	29.27	-11.72	530.92	397.00	6,732.19	6,667.81	64.38	104.576		
14,100.00	6,878.37	6,361.93	6,322.99	208.12	29.27	-11.70	530.91	396.91	6,831.75	6,767.30	64.44	106.012		
14,200.00	6,877.29	6,360.83	6,321.90	210.92	29.26	-11.68	530.90	396.82	6,931.32	6,866.81	64.51	107.445		
14,300.00	6,876.22	6,359.76	6,320.83	213.73	29.26	-11.66	530.90	396.74	7,030.90	6,966.32	64.58	108.873		
14,400.00	6,875.14	6,358.72	6,319.79	216.53	29.25	-11.64	530.89	396.66	7,130.50	7,065.85	64.65	110.297		
14,500.00	6,874.06	6,357.70	6,318.77	219.34	29.25	-11.63	530.88	396.58	7,230.10	7,165.38	64.72	111.717		
14,600.00	6,872.98	6,356.70	6,317.78	222.15	29.25	-11.61	530.88	396.50	7,329.71	7,264.92	64.79	113.132		
14,700.00	6,871.90	6,315.00	6,276.14	224.95	29.09	-10.91	530.64	394.30	7,430.32	7,365.49	64.83	114.609		
14,800.00	6,870.82	6,315.00	6,276.14	227.76	29.09	-10.91	530.64	394.30	7,529.90	7,465.00	64.90	116.015		
14,900.00	6,869.75	6,315.00	6,276.14	230.57	29.09	-10.91	530.64	394.30	7,629.50	7,564.52	64.98	117.416		
15,000.00	6,868.67	6,315.00	6,276.14	233.38	29.09	-10.91	530.64	394.30	7,729.11	7,664.05	65.05	118.813		
15,100.00	6,867.59	6,315.00	6,276.14	236.19	29.09	-10.91	530.64	394.30	7,828.72	7,763.59	65.13	120.205		
15,200.00	6,866.51	6,315.00	6,276.14	239.00	29.09	-10.91	530.64	394.30	7,928.35	7,863.14	65.20	121.593		
15,300.00	6,865.43	6,315.00	6,276.14	241.81	29.09	-10.91	530.64	394.30	8,027.98	7,962.70	65.28	122.977		
15,400.00	6,864.35	6,315.00	6,276.14	244.63	29.09	-10.91	530.64	394.30	8,127.63	8,062.27	65.36	124.356		
15,500.00	6,863.27	6,315.00	6,276.14	247.44	29.09	-10.91	530.64	394.30	8,227.28	8,161.84	65.44	125.731		
15,600.00	6,862.20	6,315.00	6,276.14	250.25	29.09	-10.91	530.64	394.30	8,326.94	8,261.43	65.51	127.101		
15,618.10	6,862.00	6,315.00	6,276.14	250.76	29.09	-10.91	530.64	394.30	8,344.98	8,279.45	65.53	127.349		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #22-5-4CHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 39-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	99.05	-80.50	505.25	511.67					
100.00	100.00	100.37	100.37	3.28	3.30	99.12	-80.94	504.27	510.78	504.20	6.59	77.560		
200.00	200.00	204.53	204.49	3.34	3.38	99.29	-82.10	502.11	508.91	502.19	6.72	75.722		
300.00	299.98	303.06	302.98	3.44	3.51	47.83	-83.83	499.55	505.46	498.50	6.96	72.650		
400.00	399.84	394.69	394.55	3.61	3.68	48.63	-86.47	497.88	500.69	493.41	7.28	68.815		
500.00	499.45	487.63	487.42	3.81	3.88	49.84	-90.11	497.60	495.43	487.75	7.68	64.501		
600.00	598.70	583.04	582.70	4.06	4.12	51.52	-94.91	497.96	489.13	480.97	8.17	59.892		
700.00	697.47	690.64	690.02	4.35	4.43	54.14	-102.69	497.44	480.97	472.21	8.76	54.908		
800.00	795.62	796.89	795.66	4.66	4.78	57.69	-113.04	493.31	469.29	459.86	9.43	49.778		
900.00	893.06	885.19	883.08	5.01	5.11	61.54	-124.53	488.42	457.15	447.05	10.10	45.244		
961.44	952.51	939.02	936.25	5.25	5.33	64.21	-132.48	485.65	450.75	440.20	10.55	42.722		
1,000.00	989.71	972.64	969.40	5.40	5.47	65.91	-137.81	483.92	447.35	436.51	10.84	41.267		
1,100.00	1,086.20	1,064.97	1,060.28	5.81	5.87	70.78	-153.31	478.91	441.20	429.55	11.65	37.879		
1,194.29	1,177.18	1,146.76	1,140.72	6.22	6.25	75.20	-167.34	474.28	438.92	426.50	12.42	35.348 CC		
1,200.00	1,182.69	1,151.60	1,145.48	6.24	6.27	75.47	-168.18	474.03	438.93	426.46	12.46	35.216 ES		
1,300.00	1,279.18	1,237.10	1,229.54	6.69	6.68	80.05	-183.33	470.31	441.76	428.47	13.29	33.247		
1,400.00	1,375.67	1,323.16	1,314.01	7.15	7.10	84.61	-199.51	467.16	449.55	435.43	14.11	31.858		
1,500.00	1,472.15	1,417.64	1,406.88	7.62	7.57	89.28	-216.73	464.99	461.30	446.34	14.97	30.819		
1,600.00	1,568.64	1,524.50	1,512.53	8.10	8.09	94.01	-232.58	463.17	473.79	457.91	15.88	29.832		
1,700.00	1,665.13	1,621.63	1,608.78	8.59	8.56	98.07	-245.38	460.60	487.11	470.37	16.74	29.107		
1,800.00	1,761.62	1,715.14	1,701.48	9.08	9.01	101.79	-257.43	457.96	502.47	484.91	17.57	28.600		
1,900.00	1,858.11	1,805.25	1,790.52	9.58	9.46	105.46	-270.18	452.84	520.21	501.83	18.38	28.307		
2,000.00	1,954.60	1,893.92	1,878.19	10.08	9.91	108.75	-282.90	449.04	540.77	521.60	19.17	28.204		
2,100.00	2,051.09	1,980.10	1,963.19	10.59	10.36	111.88	-296.21	444.04	563.94	544.00	19.94	28.279		
2,200.00	2,147.57	2,062.30	2,044.06	11.09	10.81	114.69	-310.16	439.26	590.34	569.67	20.67	28.558		
2,300.00	2,244.06	2,159.02	2,139.29	11.61	11.33	117.60	-326.53	435.13	618.55	597.03	21.52	28.737		
2,400.00	2,340.55	2,238.35	2,217.34	12.12	11.76	119.76	-340.41	432.26	648.63	626.41	22.22	29.193		
2,500.00	2,437.04	2,311.64	2,289.17	12.64	12.18	121.63	-354.73	429.46	681.72	658.88	22.85	29.839		
2,600.00	2,533.53	2,404.95	2,380.30	13.15	12.72	123.80	-374.47	426.22	717.28	693.60	23.68	30.290		
2,700.00	2,630.02	2,493.09	2,466.60	13.67	13.24	125.58	-392.31	424.26	752.79	728.33	24.47	30.768		
2,800.00	2,726.50	2,580.10	2,551.58	14.19	13.75	127.32	-410.60	420.56	789.75	764.51	25.24	31.284		
2,900.00	2,822.99	2,663.15	2,632.53	14.72	14.26	129.05	-428.06	414.24	827.66	801.68	25.98	31.859		
3,000.00	2,919.48	2,755.88	2,722.72	15.24	14.83	130.81	-448.41	407.23	867.13	840.30	26.83	32.322		
3,100.00	3,015.97	2,874.54	2,838.77	15.76	15.53	132.89	-471.40	398.15	904.86	876.91	27.95	32.371		
3,200.00	3,112.46	2,977.53	2,940.02	16.29	16.12	134.42	-489.28	392.22	941.07	912.16	28.91	32.555		
3,300.00	3,208.95	3,088.72	3,049.62	16.81	16.74	135.88	-507.25	387.11	976.47	946.53	29.94	32.617		
3,400.00	3,305.44	3,207.37	3,167.10	17.34	17.36	137.21	-523.52	383.79	1,009.55	978.53	31.02	32.541		
3,500.00	3,401.92	3,284.56	3,243.55	17.87	17.76	138.06	-533.82	381.14	1,042.78	1,011.05	31.74	32.857		
3,600.00	3,498.41	3,355.01	3,313.14	18.40	18.14	138.83	-544.24	377.67	1,077.94	1,045.56	32.38	33.288		
3,700.00	3,594.90	3,438.85	3,395.74	18.93	18.61	139.71	-557.94	373.18	1,114.87	1,081.71	33.16	33.625		
3,800.00	3,691.39	3,537.35	3,492.79	19.46	19.16	140.62	-574.18	368.98	1,151.94	1,117.86	34.08	33.800		
3,900.00	3,787.88	3,632.98	3,587.14	19.99	19.68	141.46	-589.31	364.95	1,188.60	1,153.62	34.98	33.981		
4,000.00	3,884.37	3,712.04	3,665.09	20.52	20.13	142.16	-601.71	360.64	1,225.70	1,189.99	35.71	34.324		
4,100.00	3,980.85	3,786.03	3,737.86	21.05	20.55	142.76	-614.49	356.64	1,264.34	1,227.95	36.39	34.745		
4,200.00	4,077.34	3,865.64	3,816.01	21.58	21.01	143.37	-629.04	352.26	1,304.09	1,266.96	37.13	35.125		
4,300.00	4,173.83	3,946.43	3,895.19	22.11	21.49	143.95	-644.47	347.82	1,344.71	1,306.82	37.88	35.498		
4,390.25	4,260.91	4,033.50	3,980.49	22.59	22.01	144.53	-661.32	343.21	1,381.64	1,342.92	38.72	35.683		
4,400.00	4,270.32	4,043.07	3,989.86	22.64	22.07	144.64	-663.15	342.72	1,385.60	1,346.78	38.81	35.700		
4,500.00	4,367.33	4,126.13	4,071.24	23.16	22.57	145.60	-679.21	338.32	1,425.04	1,385.46	39.58	36.001		
4,600.00	4,465.13	4,241.57	4,184.41	23.65	23.26	146.54	-701.23	332.43	1,461.66	1,420.97	40.69	35.920		
4,700.00	4,563.60	4,298.30	4,239.97	24.12	23.60	147.12	-712.26	329.42	1,495.91	1,454.77	41.14	36.359		
4,800.00	4,662.61	4,393.42	4,332.79	24.56	24.19	147.73	-732.14	323.40	1,529.15	1,487.14	42.00	36.405		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #22-5-4CHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 39-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,483.67	4,421.05	24.98	24.74	148.21	-750.24	318.10	1,558.69	1,515.89	42.79	36.423		
5,000.00	4,861.80	4,619.49	4,553.86	25.38	25.57	148.64	-777.19	309.08	1,585.72	1,541.65	44.07	35.983		
5,100.00	4,961.73	4,692.98	4,625.90	25.76	26.01	148.92	-790.93	304.32	1,608.45	1,563.81	44.65	36.027		
5,151.69	5,013.42	4,776.45	4,707.70	25.95	26.50	-159.06	-806.37	298.32	1,619.24	1,573.82	45.42	35.648		
5,200.00	5,061.73	4,829.14	4,759.55	26.13	26.81	-159.05	-814.99	294.56	1,627.83	1,581.95	45.88	35.484		
5,300.00	5,161.73	4,902.00	4,831.01	26.49	27.24	-159.06	-828.32	289.76	1,647.13	1,600.69	46.44	35.471		
5,400.00	5,261.73	5,016.38	4,943.13	26.86	27.93	-159.11	-849.97	283.21	1,666.94	1,619.50	47.44	35.136		
5,500.00	5,361.73	5,120.95	5,045.87	27.23	28.54	-159.19	-868.79	278.25	1,685.46	1,637.12	48.34	34.865		
5,600.00	5,461.73	5,218.15	5,141.39	27.60	29.11	-159.26	-886.25	273.87	1,703.85	1,654.69	49.17	34.654		
5,700.00	5,561.73	5,314.84	5,236.41	27.97	29.67	-159.33	-903.59	269.59	1,722.20	1,672.21	49.99	34.451		
5,800.00	5,661.73	5,418.87	5,338.58	28.35	30.28	-159.43	-922.73	265.43	1,740.85	1,689.96	50.89	34.207		
5,900.00	5,761.73	5,642.24	5,559.28	28.72	31.48	-159.71	-956.60	262.00	1,755.76	1,702.89	52.86	33.213		
6,000.00	5,861.73	5,880.56	5,796.93	29.10	32.53	-159.78	-973.05	258.24	1,762.53	1,707.93	54.60	32.281		
6,100.00	5,961.73	6,019.60	5,935.92	29.48	33.03	-159.72	-974.73	255.42	1,764.23	1,708.64	55.59	31.739		
6,200.00	6,061.73	6,114.39	6,030.68	29.86	33.36	-159.64	-974.90	252.87	1,765.34	1,708.98	56.35	31.326		
6,300.00	6,161.73	6,248.06	6,164.31	30.25	33.82	-159.54	-974.65	249.70	1,766.07	1,708.79	57.28	30.830		
6,400.00	6,261.73	6,358.43	6,274.67	30.63	34.17	-159.54	-974.03	249.74	1,765.57	1,707.47	58.10	30.390		
6,451.69	6,313.42	6,435.38	6,351.61	30.83	34.40	-159.53	-972.62	250.03	1,764.61	1,706.04	58.58	30.124		
6,500.00	6,361.68	6,499.75	6,415.95	31.01	34.59	-67.33	-970.94	251.03	1,762.46	1,703.48	58.98	29.880		
6,550.00	6,411.34	6,639.33	6,555.02	31.20	34.97	-68.48	-964.98	260.48	1,756.80	1,697.29	59.51	29.521		
6,600.00	6,460.39	6,682.20	6,597.46	31.38	35.09	-69.55	-963.24	266.24	1,749.04	1,689.18	59.86	29.216		
6,650.00	6,508.54	6,739.16	6,653.44	31.58	35.24	-71.10	-961.94	276.59	1,740.14	1,679.90	60.24	28.888		
6,700.00	6,555.48	6,810.35	6,721.43	31.78	35.42	-73.41	-962.05	297.51	1,729.66	1,669.03	60.63	28.529		
6,750.00	6,600.93	6,836.50	6,745.73	31.98	35.48	-75.04	-962.66	307.15	1,718.45	1,657.46	61.00	28.173		
6,800.00	6,644.61	6,861.51	6,768.64	32.20	35.55	-76.72	-963.57	317.13	1,707.12	1,645.76	61.37	27.819		
6,850.00	6,686.25	6,881.98	6,787.14	32.44	35.60	-78.33	-964.55	325.83	1,695.92	1,634.18	61.74	27.469		
6,900.00	6,725.58	6,899.00	6,802.34	32.68	35.64	-79.84	-965.52	333.43	1,685.09	1,622.98	62.12	27.127		
6,950.00	6,762.38	6,950.00	6,923.33	32.96	35.79	-85.57	-970.75	406.90	1,674.10	1,611.64	62.46	26.804		
7,000.00	6,796.41	7,105.76	6,974.58	33.25	36.05	-88.77	-971.47	446.28	1,664.30	1,600.90	63.40	26.250		
7,050.00	6,827.46	7,100.65	6,970.84	33.58	36.04	-89.42	-971.47	442.81	1,655.23	1,591.33	63.90	25.904		
7,100.00	6,855.34	7,092.54	6,964.81	33.93	36.03	-89.84	-971.48	437.37	1,647.56	1,583.16	64.40	25.582		
7,150.00	6,879.88	7,044.51	6,927.44	34.33	35.95	-88.75	-971.22	407.24	1,641.24	1,576.44	64.80	25.329		
7,200.00	6,900.93	7,005.10	6,894.82	34.76	35.88	-87.85	-970.37	385.16	1,636.09	1,570.88	65.21	25.091		
7,250.00	6,918.36	6,981.43	6,874.52	35.23	35.83	-87.39	-969.58	373.00	1,632.15	1,566.45	65.70	24.842		
7,300.00	6,932.05	6,957.75	6,854.00	35.74	35.78	-86.82	-968.63	361.23	1,629.42	1,563.20	66.22	24.605		
7,350.00	6,941.94	6,930.00	6,829.72	36.29	35.71	-86.04	-967.29	347.85	1,627.79	1,561.04	66.75	24.386		
7,400.00	6,947.94	6,899.00	6,802.34	36.87	35.64	-85.08	-965.52	333.43	1,627.13	1,559.85	67.28	24.186		
7,409.50	6,948.64	6,899.00	6,802.34	36.98	35.64	-85.08	-965.52	333.43	1,627.11	1,559.68	67.42	24.133		
7,450.00	6,950.04	6,899.00	6,802.34	37.47	35.64	-85.04	-965.52	333.43	1,627.50	1,559.44	68.05	23.915		
7,458.56	6,950.00	6,899.00	6,802.34	37.58	35.64	-85.03	-965.52	333.43	1,627.68	1,559.49	68.19	23.869		
7,500.00	6,949.56	6,877.83	6,783.41	38.11	35.59	-84.36	-964.33	324.03	1,628.90	1,560.18	68.72	23.704		
7,600.00	6,948.48	6,857.72	6,765.19	39.51	35.54	-83.72	-963.41	315.57	1,635.99	1,565.68	70.31	23.270		
7,700.00	6,947.40	6,839.58	6,748.56	41.06	35.49	-83.14	-962.76	308.33	1,648.64	1,576.64	72.00	22.898		
7,800.00	6,946.32	6,803.00	6,714.55	42.74	35.40	-81.95	-961.95	294.92	1,667.09	1,593.49	73.60	22.652		
7,900.00	6,945.24	6,803.00	6,714.55	44.55	35.40	-81.95	-961.95	294.92	1,690.34	1,614.87	75.47	22.397		
8,000.00	6,944.16	6,803.00	6,714.55	46.46	35.40	-81.95	-961.95	294.92	1,719.11	1,641.81	77.30	22.239		
8,100.00	6,943.08	6,803.00	6,714.55	48.47	35.40	-81.95	-961.95	294.92	1,753.12	1,674.07	79.06	22.176 SF		
8,200.00	6,942.01	6,803.00	6,714.55	50.55	35.40	-81.95	-961.95	294.92	1,792.07	1,711.36	80.71	22.204		
8,300.00	6,940.93	6,765.12	6,678.56	52.71	35.30	-80.71	-961.75	283.15	1,834.32	1,752.29	82.03	22.361		
8,400.00	6,939.85	6,757.11	6,670.84	54.93	35.28	-80.44	-961.78	280.99	1,881.53	1,798.11	83.43	22.552		
8,500.00	6,938.77	6,749.88	6,663.85	57.20	35.26	-80.20	-961.83	279.15	1,932.66	1,847.95	84.71	22.814		
8,600.00	6,937.69	6,743.31	6,657.48	59.53	35.25	-79.98	-961.89	277.55	1,987.42	1,901.54	85.89	23.140		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	6,936.61	6,708.00	6,622.92	61.89	35.15	-78.80	-962.50	270.38	2,046.40	1,959.61	86.79	23.580		
8,800.00	6,935.54	6,708.00	6,622.92	64.30	35.15	-78.80	-962.50	270.38	2,107.30	2,019.52	87.78	24.006		
8,900.00	6,934.46	6,708.00	6,622.92	66.74	35.15	-78.80	-962.50	270.38	2,171.11	2,082.43	88.68	24.484		
9,000.00	6,933.38	6,708.00	6,622.92	69.21	35.15	-78.80	-962.50	270.38	2,237.56	2,148.09	89.47	25.009		
9,100.00	6,932.30	6,708.00	6,622.92	71.71	35.15	-78.80	-962.50	270.38	2,306.44	2,216.26	90.18	25.576		
9,200.00	6,931.22	6,708.00	6,622.92	74.23	35.15	-78.80	-962.50	270.38	2,377.53	2,286.72	90.81	26.183		
9,300.00	6,930.14	6,708.00	6,622.92	76.78	35.15	-78.80	-962.50	270.38	2,450.64	2,359.28	91.36	26.824		
9,400.00	6,929.06	6,708.00	6,622.92	79.34	35.15	-78.80	-962.50	270.38	2,525.59	2,433.74	91.85	27.496		
9,500.00	6,927.99	6,708.00	6,622.92	81.93	35.15	-78.80	-962.50	270.38	2,602.23	2,509.94	92.29	28.197		
9,600.00	6,926.91	6,708.00	6,622.92	84.53	35.15	-78.80	-962.50	270.38	2,680.41	2,587.73	92.67	28.924		
9,700.00	6,925.83	6,708.00	6,622.92	87.14	35.15	-78.80	-962.50	270.38	2,759.99	2,666.98	93.01	29.674		
9,800.00	6,924.75	6,708.00	6,622.92	89.77	35.15	-78.80	-962.50	270.38	2,840.87	2,747.56	93.31	30.446		
9,900.00	6,923.67	6,708.00	6,622.92	92.41	35.15	-78.80	-962.50	270.38	2,922.93	2,829.36	93.57	31.237		
10,000.00	6,922.59	6,675.21	6,590.55	95.07	35.07	-77.71	-963.48	265.20	3,005.45	2,911.72	93.73	32.065		
10,100.00	6,921.51	6,670.82	6,586.21	97.73	35.06	-77.56	-963.64	264.57	3,089.42	2,995.49	93.93	32.891		
10,200.00	6,920.44	6,666.61	6,582.05	100.40	35.05	-77.42	-963.80	263.98	3,174.30	3,080.19	94.11	33.730		
10,300.00	6,919.36	6,662.57	6,578.05	103.08	35.03	-77.29	-963.96	263.43	3,260.02	3,165.75	94.27	34.583		
10,400.00	6,918.28	6,658.69	6,574.21	105.77	35.02	-77.16	-964.12	262.91	3,346.51	3,252.11	94.41	35.448		
10,500.00	6,917.20	6,654.96	6,570.51	108.47	35.01	-77.04	-964.27	262.42	3,433.73	3,339.20	94.53	36.324		
10,600.00	6,916.12	6,651.37	6,566.95	111.18	35.00	-76.92	-964.43	261.95	3,521.60	3,426.96	94.64	37.210		
10,700.00	6,915.04	6,647.91	6,563.53	113.89	35.00	-76.81	-964.58	261.52	3,610.10	3,515.36	94.74	38.106		
10,800.00	6,913.96	6,613.00	6,528.88	116.61	34.90	-75.66	-966.36	257.64	3,699.72	3,604.94	94.77	39.037		
10,900.00	6,912.89	6,613.00	6,528.88	119.33	34.90	-75.66	-966.36	257.64	3,789.21	3,694.35	94.86	39.945		
11,000.00	6,911.81	6,613.00	6,528.88	122.06	34.90	-75.66	-966.36	257.64	3,879.22	3,784.28	94.94	40.861		
11,100.00	6,910.73	6,613.00	6,528.88	124.79	34.90	-75.66	-966.36	257.64	3,969.70	3,874.70	95.00	41.785		
11,200.00	6,909.65	6,613.00	6,528.88	127.53	34.90	-75.66	-966.36	257.64	4,060.63	3,965.57	95.06	42.715		
11,300.00	6,908.57	6,613.00	6,528.88	130.27	34.90	-75.66	-966.36	257.64	4,151.98	4,056.86	95.12	43.651		
11,400.00	6,907.49	6,613.00	6,528.88	133.02	34.90	-75.66	-966.36	257.64	4,243.72	4,148.55	95.17	44.592		
11,500.00	6,906.41	6,613.00	6,528.88	135.77	34.90	-75.66	-966.36	257.64	4,335.82	4,240.61	95.21	45.539		
11,600.00	6,905.34	6,613.00	6,528.88	138.52	34.90	-75.66	-966.36	257.64	4,428.26	4,333.01	95.25	46.491		
11,700.00	6,904.26	6,613.00	6,528.88	141.28	34.90	-75.66	-966.36	257.64	4,521.03	4,425.75	95.28	47.448		
11,800.00	6,903.18	6,613.00	6,528.88	144.04	34.90	-75.66	-966.36	257.64	4,614.10	4,518.78	95.32	48.408		
11,900.00	6,902.10	6,613.00	6,528.88	146.80	34.90	-75.66	-966.36	257.64	4,707.45	4,612.11	95.35	49.373		
12,000.00	6,901.02	6,613.00	6,528.88	149.57	34.90	-75.66	-966.36	257.64	4,801.07	4,705.70	95.37	50.341		
12,100.00	6,899.94	6,613.00	6,528.88	152.34	34.90	-75.66	-966.36	257.64	4,894.95	4,799.55	95.40	51.312		
12,200.00	6,898.87	6,613.00	6,528.88	155.11	34.90	-75.66	-966.36	257.64	4,989.06	4,893.64	95.42	52.286		
12,300.00	6,897.79	6,613.00	6,528.88	157.89	34.90	-75.66	-966.36	257.64	5,083.40	4,987.96	95.44	53.263		
12,400.00	6,896.71	6,613.00	6,528.88	160.66	34.90	-75.66	-966.36	257.64	5,177.95	5,082.49	95.46	54.243		
12,500.00	6,895.63	6,613.00	6,528.88	163.44	34.90	-75.66	-966.36	257.64	5,272.70	5,177.22	95.48	55.225		
12,600.00	6,894.55	6,613.00	6,528.88	166.22	34.90	-75.66	-966.36	257.64	5,367.64	5,272.14	95.49	56.209		
12,700.00	6,893.47	6,613.00	6,528.88	169.00	34.90	-75.66	-966.36	257.64	5,462.76	5,367.25	95.51	57.195		
12,800.00	6,892.39	6,613.00	6,528.88	171.79	34.90	-75.66	-966.36	257.64	5,558.05	5,462.52	95.53	58.183		
12,900.00	6,891.32	6,613.00	6,528.88	174.57	34.90	-75.66	-966.36	257.64	5,653.51	5,557.96	95.54	59.172		
13,000.00	6,890.24	6,613.00	6,528.88	177.36	34.90	-75.66	-966.36	257.64	5,749.11	5,653.56	95.56	60.163		
13,100.00	6,889.16	6,613.00	6,528.88	180.15	34.90	-75.66	-966.36	257.64	5,844.87	5,749.30	95.57	61.156		
13,200.00	6,888.08	6,613.00	6,528.88	182.94	34.90	-75.66	-966.36	257.64	5,940.77	5,845.18	95.59	62.149		
13,300.00	6,887.00	6,613.00	6,528.88	185.74	34.90	-75.66	-966.36	257.64	6,036.80	5,941.19	95.60	63.144		
13,400.00	6,885.92	6,613.00	6,528.88	188.53	34.90	-75.66	-966.36	257.64	6,132.95	6,037.33	95.62	64.140		
13,500.00	6,884.84	6,613.00	6,528.88	191.32	34.90	-75.66	-966.36	257.64	6,229.23	6,133.60	95.63	65.136		
13,600.00	6,883.77	6,576.73	6,492.80	194.12	34.80	-74.49	-968.23	254.55	6,325.11	6,229.47	95.63	66.140		
13,700.00	6,882.69	6,575.06	6,491.12	196.92	34.80	-74.43	-968.31	254.43	6,421.56	6,325.91	95.65	67.137		
13,800.00	6,881.61	6,573.43	6,489.50	199.72	34.80	-74.38	-968.38	254.32	6,518.12	6,422.46	95.66	68.136		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #22-5-4CHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 39-MWWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,900.00	6,880.53	6,571.84	6,487.92	202.52	34.79	-74.33	-968.45	254.21	6,614.78	6,519.10	95.68	69.134		
14,000.00	6,879.45	6,570.30	6,486.38	205.32	34.79	-74.28	-968.52	254.10	6,711.54	6,615.84	95.70	70.134		
14,100.00	6,878.37	6,568.80	6,484.88	208.12	34.78	-74.23	-968.59	254.00	6,808.38	6,712.67	95.71	71.133		
14,200.00	6,877.29	6,567.33	6,483.43	210.92	34.78	-74.18	-968.65	253.91	6,905.32	6,809.59	95.73	72.132		
14,300.00	6,876.22	6,565.91	6,482.01	213.73	34.77	-74.14	-968.71	253.81	7,002.34	6,906.59	95.75	73.132		
14,400.00	6,875.14	6,564.52	6,480.63	216.53	34.77	-74.09	-968.77	253.72	7,099.44	7,003.67	95.77	74.132		
14,500.00	6,874.06	6,563.17	6,479.28	219.34	34.77	-74.05	-968.83	253.64	7,196.62	7,100.83	95.79	75.131		
14,600.00	6,872.98	6,561.86	6,477.97	222.15	34.76	-74.01	-968.88	253.56	7,293.87	7,198.07	95.81	76.131		
14,700.00	6,871.90	6,560.57	6,476.68	224.95	34.76	-73.97	-968.94	253.48	7,391.20	7,295.37	95.83	77.130		
14,800.00	6,870.82	6,559.32	6,475.44	227.76	34.76	-73.93	-968.99	253.40	7,488.60	7,392.75	95.85	78.130		
14,900.00	6,869.75	6,558.10	6,474.22	230.57	34.75	-73.89	-969.04	253.33	7,586.06	7,490.19	95.87	79.128		
15,000.00	6,868.67	6,556.91	6,473.03	233.38	34.75	-73.85	-969.09	253.26	7,683.58	7,587.69	95.89	80.127		
15,100.00	6,867.59	6,518.00	6,434.18	236.19	34.64	-72.60	-970.43	251.53	7,781.73	7,685.84	95.88	81.158		
15,200.00	6,866.51	6,518.00	6,434.18	239.00	34.64	-72.60	-970.43	251.53	7,879.34	7,783.43	95.91	82.154		
15,300.00	6,865.43	6,518.00	6,434.18	241.81	34.64	-72.60	-970.43	251.53	7,977.02	7,881.08	95.93	83.151		
15,400.00	6,864.35	6,518.00	6,434.18	244.63	34.64	-72.60	-970.43	251.53	8,074.75	7,978.78	95.96	84.146		
15,500.00	6,863.27	6,518.00	6,434.18	247.44	34.64	-72.60	-970.43	251.53	8,172.53	8,076.54	95.99	85.141		
15,600.00	6,862.20	6,518.00	6,434.18	250.25	34.64	-72.60	-970.43	251.53	8,270.37	8,174.35	96.02	86.136		
15,618.10	6,862.00	6,518.00	6,434.18	250.76	34.64	-72.60	-970.43	251.53	8,288.08	8,192.06	96.02	86.316		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #A-5-3NBHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 39-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	92.33	-20.76	511.10	511.56					
100.00	100.00	96.97	96.97	3.28	3.30	92.35	-20.93	510.36	510.80	504.22	6.58	77.598		
200.00	200.00	197.00	196.99	3.34	3.37	92.40	-21.38	509.64	510.11	503.40	6.71	76.042		
300.00	299.98	299.98	299.96	3.44	3.50	40.70	-21.55	508.57	507.75	500.80	6.95	73.078		
400.00	399.84	405.24	405.21	3.61	3.69	41.20	-21.57	506.59	501.92	494.62	7.30	68.779		
500.00	499.45	500.76	500.70	3.81	3.90	41.94	-21.37	504.51	493.21	485.50	7.71	63.978		
600.00	598.70	594.87	594.81	4.06	4.14	43.04	-21.70	503.39	483.03	474.84	8.19	58.987		
700.00	697.47	693.40	693.33	4.35	4.41	44.65	-22.85	502.72	471.11	462.37	8.74	53.885		
800.00	795.62	795.58	795.47	4.66	4.72	46.91	-25.19	501.37	456.64	447.28	9.37	48.757		
900.00	893.06	887.53	887.40	5.01	5.02	49.40	-27.05	500.25	440.53	430.53	10.00	44.032		
961.44	952.51	944.50	944.36	5.25	5.21	51.11	-27.65	500.12	430.42	420.01	10.42	41.319		
1,000.00	989.71	980.30	980.16	5.40	5.32	52.14	-27.88	500.23	424.17	413.48	10.68	39.707		
1,100.00	1,086.20	1,074.88	1,074.74	5.81	5.63	54.91	-28.02	501.04	409.06	397.67	11.39	35.917		
1,200.00	1,182.69	1,168.88	1,168.72	6.24	5.95	57.80	-27.95	502.46	395.58	383.46	12.13	32.621		
1,300.00	1,279.18	1,268.11	1,267.93	6.69	6.30	61.01	-27.70	504.15	383.39	370.48	12.91	29.696		
1,400.00	1,375.67	1,367.21	1,367.03	7.15	6.65	64.34	-26.81	505.35	371.74	358.02	13.72	27.094		
1,500.00	1,472.15	1,466.81	1,466.61	7.62	7.02	67.89	-25.55	506.07	360.84	346.29	14.56	24.790		
1,600.00	1,568.64	1,564.26	1,564.05	8.10	7.38	71.53	-23.89	506.35	350.80	335.40	15.41	22.769		
1,700.00	1,665.13	1,661.99	1,661.77	8.59	7.75	75.36	-22.14	506.56	342.19	325.91	16.28	21.022		
1,800.00	1,761.62	1,759.67	1,759.43	9.08	8.13	79.38	-20.27	506.47	334.95	317.78	17.16	19.515		
1,900.00	1,858.11	1,855.97	1,855.71	9.58	8.51	83.50	-18.44	506.29	329.41	311.35	18.06	18.243		
2,000.00	1,954.60	1,954.68	1,954.39	10.08	8.90	87.81	-16.34	506.07	325.58	306.62	18.97	17.167		
2,100.00	2,051.09	2,073.23	2,072.75	10.59	9.38	93.14	-10.53	503.11	320.23	300.32	19.91	16.084		
2,200.00	2,147.57	2,173.55	2,172.57	11.09	9.79	98.24	-3.54	496.21	312.94	292.12	20.83	15.027		
2,300.00	2,244.06	2,265.63	2,264.04	11.61	10.18	103.68	1.50	486.88	308.14	286.40	21.74	14.174		
2,355.79	2,297.89	2,316.12	2,314.20	11.89	10.39	106.78	3.68	481.60	307.41	285.17	22.24	13.821 CC, ES		
2,400.00	2,340.55	2,356.84	2,354.70	12.12	10.56	109.25	5.28	477.57	307.84	285.21	22.64	13.600		
2,500.00	2,437.04	2,450.86	2,448.25	12.64	10.96	114.78	8.99	469.05	311.46	287.94	23.52	13.244		
2,600.00	2,533.53	2,545.38	2,542.40	13.15	11.37	119.98	12.73	461.52	318.39	294.01	24.38	13.058		
2,700.00	2,630.02	2,640.39	2,637.02	13.67	11.78	125.00	16.50	453.84	328.08	302.84	25.24	13.001		
2,800.00	2,726.50	2,735.54	2,731.78	14.19	12.20	129.75	19.95	445.93	340.66	314.58	26.08	13.062		
2,900.00	2,822.99	2,835.85	2,831.47	14.72	12.64	134.65	25.13	436.12	354.26	327.30	26.95	13.144		
3,000.00	2,919.48	2,930.25	2,925.26	15.24	13.07	138.97	30.08	426.58	370.15	342.37	27.78	13.325		
3,100.00	3,015.97	3,031.24	3,025.57	15.76	13.52	143.16	36.80	417.05	386.61	357.95	28.66	13.489		
3,200.00	3,112.46	3,122.83	3,116.61	16.29	13.94	146.57	42.66	408.96	404.89	375.43	29.47	13.741		
3,300.00	3,208.95	3,218.34	3,211.61	16.81	14.37	149.77	48.07	400.69	425.22	394.91	30.31	14.031		
3,400.00	3,305.44	3,320.03	3,312.78	17.34	14.83	152.80	54.79	392.95	445.51	414.30	31.21	14.275		
3,500.00	3,401.92	3,415.36	3,407.66	17.87	15.26	155.32	61.25	386.38	466.35	434.29	32.06	14.548		
3,600.00	3,498.41	3,510.23	3,502.12	18.40	15.69	157.58	67.38	380.07	488.17	455.27	32.90	14.836		
3,700.00	3,594.90	3,605.86	3,597.38	18.93	16.12	159.62	73.26	374.02	510.79	477.03	33.76	15.129		
3,800.00	3,691.39	3,702.15	3,693.31	19.46	16.56	161.49	79.15	368.04	533.94	499.31	34.63	15.419		
3,900.00	3,787.88	3,781.59	3,772.56	19.99	16.91	162.74	82.06	363.72	559.06	523.75	35.31	15.834		
4,000.00	3,884.37	3,877.93	3,868.76	20.52	17.34	164.00	83.80	358.91	585.73	549.55	36.18	16.191		
4,100.00	3,980.85	3,979.37	3,970.05	21.05	17.78	165.23	85.92	353.79	612.46	575.35	37.11	16.505		
4,200.00	4,077.34	4,084.03	4,074.68	21.58	18.22	166.06	87.72	352.72	637.21	599.15	38.06	16.742		
4,300.00	4,173.83	4,170.80	4,161.44	22.11	18.57	166.46	86.89	353.34	663.04	624.23	38.81	17.085		
4,390.25	4,260.91	4,256.13	4,246.76	22.59	18.90	166.83	85.63	353.71	686.91	647.36	39.55	17.367		
4,400.00	4,270.32	4,265.00	4,255.63	22.64	18.94	166.87	85.49	353.73	689.50	649.87	39.63	17.399		
4,500.00	4,367.33	4,367.04	4,357.65	23.16	19.34	167.33	83.55	354.06	714.42	673.89	40.53	17.626		
4,600.00	4,465.13	4,481.02	4,471.60	23.65	19.80	167.67	83.39	356.50	733.49	691.95	41.54	17.657		
4,700.00	4,563.60	4,582.66	4,573.21	24.12	20.21	167.94	84.20	358.62	748.60	706.19	42.41	17.650		
4,800.00	4,662.61	4,683.84	4,674.36	24.56	20.63	168.23	86.23	359.99	759.89	716.61	43.28	17.559		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #A-5-3NBHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 39-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,783.55	4,774.04	24.98	21.04	168.49	88.72	360.87	767.72	723.60	44.12	17.401		
5,000.00	4,861.80	4,878.76	4,869.22	25.38	21.44	168.68	91.00	361.49	772.38	727.47	44.90	17.200		
5,100.00	4,961.73	4,963.26	4,953.72	25.76	21.80	168.77	91.95	361.74	774.84	729.28	45.56	17.006		
5,151.69	5,013.42	5,007.10	4,997.55	25.95	21.98	-139.32	91.82	361.39	775.68	729.78	45.89	16.902		
5,200.00	5,061.73	5,055.79	5,046.23	26.13	22.18	-139.29	91.65	360.75	776.22	729.93	46.28	16.771		
5,300.00	5,161.73	5,157.37	5,147.80	26.49	22.62	-139.18	91.80	359.01	777.23	730.12	47.11	16.499		
5,400.00	5,261.73	5,257.13	5,247.54	26.86	23.04	-139.05	92.32	357.09	778.09	730.18	47.91	16.239		
5,500.00	5,361.73	5,360.31	5,350.70	27.23	23.49	-138.89	93.13	354.92	778.89	730.12	48.76	15.972		
5,600.00	5,461.73	5,452.18	5,442.55	27.60	23.88	-138.80	93.36	353.41	779.79	730.31	49.48	15.759		
5,700.00	5,561.73	5,554.07	5,544.43	27.97	24.30	-138.81	91.98	352.47	781.42	731.11	50.31	15.532		
5,800.00	5,661.73	5,658.83	5,649.18	28.35	24.74	-138.80	91.34	351.61	782.42	731.25	51.17	15.290		
5,900.00	5,761.73	5,761.76	5,752.10	28.72	25.18	-138.72	91.63	350.46	782.94	730.92	52.02	15.050		
6,000.00	5,861.73	5,867.15	5,857.49	29.10	25.62	-138.70	91.83	350.24	782.94	730.05	52.89	14.803		
6,100.00	5,961.73	5,972.57	5,962.90	29.48	26.05	-138.69	92.45	350.72	782.19	728.44	53.76	14.550		
6,200.00	6,061.73	6,072.65	6,062.97	29.86	26.48	-138.61	94.04	350.64	781.06	726.48	54.58	14.311		
6,300.00	6,161.73	6,170.63	6,160.95	30.25	26.89	-138.59	94.82	350.96	780.24	724.86	55.38	14.089		
6,400.00	6,261.73	6,311.89	6,302.12	30.63	27.48	-138.65	96.86	353.76	778.28	721.75	56.53	13.767		
6,451.69	6,313.42	6,486.98	6,471.76	30.83	28.13	-140.97	97.04	394.35	768.49	711.48	57.01	13.479		
6,500.00	6,361.68	6,623.67	6,596.80	31.01	28.62	-53.21	98.51	449.07	754.85	698.22	56.63	13.329		
6,550.00	6,411.34	6,658.72	6,627.44	31.20	28.76	-56.09	98.94	466.07	736.04	678.84	57.20	12.867		
6,600.00	6,460.39	6,690.81	6,655.24	31.38	28.88	-59.30	98.61	482.10	716.32	658.53	57.79	12.696		
6,650.00	6,508.54	6,736.47	6,694.10	31.58	29.08	-63.80	97.16	506.01	695.99	637.73	58.26	11.947		
6,700.00	6,555.48	6,792.05	6,739.02	31.78	29.34	-69.79	94.90	538.64	674.52	615.83	58.69	11.492		
6,750.00	6,600.93	6,826.11	6,765.14	31.98	29.53	-74.66	93.36	560.44	653.19	593.82	59.37	11.002		
6,800.00	6,644.61	6,849.22	6,782.42	32.20	29.66	-78.65	92.33	575.75	633.26	573.15	60.12	10.534		
6,850.00	6,686.25	6,864.80	6,793.87	32.44	29.75	-81.81	91.64	586.29	615.56	554.71	60.85	10.116		
6,900.00	6,725.58	6,874.00	6,800.55	32.68	29.80	-84.09	91.23	592.60	600.76	539.24	61.52	9.765		
6,950.00	6,762.38	6,877.80	6,803.29	32.96	29.82	-85.51	91.07	595.23	589.36	527.31	62.06	9.497		
7,000.00	6,796.41	6,877.03	6,802.74	33.25	29.82	-86.13	91.10	594.70	581.74	519.31	62.43	9.318		
7,050.00	6,827.46	6,872.38	6,799.38	33.58	29.79	-86.00	91.30	591.49	578.06	515.44	62.62	9.231		
7,071.24	6,839.70	6,869.38	6,797.20	33.73	29.77	-85.74	91.43	589.43	577.71	515.05	62.66	9.220 SF		
7,100.00	6,855.34	6,864.43	6,793.60	33.93	29.74	-85.20	91.65	586.05	578.35	515.71	62.64	9.233		
7,150.00	6,879.88	6,853.67	6,785.70	34.33	29.68	-83.79	92.13	578.74	582.46	519.95	62.51	9.318		
7,200.00	6,900.93	6,840.48	6,775.92	34.76	29.61	-81.85	92.72	569.91	590.09	527.81	62.28	9.475		
7,250.00	6,918.36	6,825.20	6,764.45	35.23	29.52	-79.47	93.41	559.84	600.87	538.89	61.99	9.694		
7,300.00	6,932.05	6,808.12	6,751.45	35.74	29.42	-76.72	94.18	548.79	614.35	552.67	61.68	9.960		
7,350.00	6,941.94	6,791.89	6,738.90	36.29	29.34	-73.91	94.91	538.54	630.08	568.58	61.51	10.244		
7,400.00	6,947.94	6,775.52	6,725.96	36.87	29.27	-70.98	95.62	528.52	647.69	586.26	61.43	10.544		
7,450.00	6,950.04	6,758.46	6,712.22	37.47	29.19	-67.95	96.31	518.44	666.76	605.32	61.44	10.852		
7,458.56	6,950.00	6,755.48	6,709.79	37.58	29.17	-67.43	96.43	516.72	670.14	608.69	61.45	10.905		
7,500.00	6,949.56	6,741.46	6,698.26	38.11	29.11	-66.42	96.97	508.78	687.40	625.87	61.53	11.172		
7,600.00	6,948.48	6,709.00	6,670.88	39.51	28.96	-64.08	98.12	491.38	735.30	673.57	61.73	11.912		
7,700.00	6,947.40	6,679.67	6,645.62	41.06	28.84	-62.00	98.81	476.49	790.95	728.94	62.01	12.756		
7,800.00	6,946.32	6,649.49	6,619.40	42.74	28.72	-59.94	98.91	461.54	852.87	790.65	62.21	13.709		
7,900.00	6,945.24	6,614.00	6,588.29	44.55	28.58	-57.64	98.25	444.47	919.95	857.70	62.25	14.777		
8,000.00	6,944.16	6,614.00	6,588.29	46.46	28.58	-57.64	98.25	444.47	991.52	928.45	63.07	15.721		
8,100.00	6,943.08	6,574.07	6,552.61	48.47	28.44	-55.14	97.31	426.59	1,066.07	1,003.13	62.94	16.937		
8,200.00	6,942.01	6,554.95	6,535.17	50.55	28.37	-53.97	97.06	418.75	1,144.03	1,080.84	63.19	18.104		
8,300.00	6,940.93	6,519.00	6,501.84	52.71	28.24	-51.80	96.94	405.30	1,224.95	1,161.85	63.10	19.413		
8,400.00	6,939.85	6,519.00	6,501.84	54.93	28.24	-51.80	96.94	405.30	1,307.39	1,243.82	63.58	20.564		
8,500.00	6,938.77	6,503.14	6,486.96	57.20	28.18	-50.86	96.99	399.81	1,391.99	1,328.25	63.74	21.839		
8,600.00	6,937.69	6,482.81	6,467.83	59.53	28.11	-49.70	97.06	392.96	1,478.03	1,414.21	63.81	23.163		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman #A-5-3NBHZ - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 39-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	6,936.61	6,463.63	6,449.70	61.89	28.04	-48.63	97.13	386.68	1,565.29	1,501.41	63.88	24.503		
8,800.00	6,935.54	6,445.50	6,432.50	64.30	27.98	-47.64	97.21	380.92	1,653.62	1,589.68	63.95	25.859		
8,900.00	6,934.46	6,424.00	6,412.05	66.74	27.90	-46.51	97.31	374.30	1,742.90	1,678.93	63.97	27.246		
9,000.00	6,933.38	6,424.00	6,412.05	69.21	27.90	-46.51	97.31	374.30	1,833.06	1,768.87	64.19	28.558		
9,100.00	6,932.30	6,424.00	6,412.05	71.71	27.90	-46.51	97.31	374.30	1,924.18	1,859.82	64.37	29.894		
9,200.00	6,931.22	6,424.00	6,412.05	74.23	27.90	-46.51	97.31	374.30	2,016.15	1,951.63	64.52	31.248		
9,300.00	6,930.14	6,424.00	6,412.05	76.78	27.90	-46.51	97.31	374.30	2,108.85	2,044.20	64.65	32.619		
9,400.00	6,929.06	6,424.00	6,412.05	79.34	27.90	-46.51	97.31	374.30	2,202.19	2,137.43	64.76	34.004		
9,500.00	6,927.99	6,424.00	6,412.05	81.93	27.90	-46.51	97.31	374.30	2,296.09	2,231.23	64.86	35.402		
9,600.00	6,926.91	6,424.00	6,412.05	84.53	27.90	-46.51	97.31	374.30	2,390.49	2,325.55	64.94	36.810		
9,700.00	6,925.83	6,424.00	6,412.05	87.14	27.90	-46.51	97.31	374.30	2,485.32	2,420.31	65.01	38.227		
9,800.00	6,924.75	6,383.12	6,372.58	89.77	27.75	-44.44	97.37	363.72	2,578.38	2,513.50	64.88	39.741		
9,900.00	6,923.67	6,379.85	6,369.38	92.41	27.74	-44.28	97.36	363.02	2,673.60	2,608.67	64.93	41.174		
10,000.00	6,922.59	6,376.77	6,366.37	95.07	27.73	-44.13	97.35	362.39	2,769.14	2,704.15	64.99	42.611		
10,100.00	6,921.51	6,373.88	6,363.54	97.73	27.72	-43.98	97.35	361.82	2,864.96	2,799.92	65.03	44.053		
10,200.00	6,920.44	6,371.15	6,360.86	100.40	27.71	-43.85	97.34	361.30	2,961.03	2,895.95	65.08	45.499		
10,300.00	6,919.36	6,329.00	6,319.16	103.08	27.55	-41.89	97.05	355.26	3,059.33	2,994.36	64.97	47.090		
10,400.00	6,918.28	6,329.00	6,319.16	105.77	27.55	-41.89	97.05	355.26	3,155.61	3,090.58	65.03	48.529		
10,500.00	6,917.20	6,329.00	6,319.16	108.47	27.55	-41.89	97.05	355.26	3,252.11	3,187.03	65.08	49.971		
10,600.00	6,916.12	6,329.00	6,319.16	111.18	27.55	-41.89	97.05	355.26	3,348.82	3,283.69	65.13	51.417		
10,700.00	6,915.04	6,329.00	6,319.16	113.89	27.55	-41.89	97.05	355.26	3,445.72	3,380.54	65.18	52.865		
10,800.00	6,913.96	6,329.00	6,319.16	116.61	27.55	-41.89	97.05	355.26	3,542.79	3,477.57	65.23	54.315		
10,900.00	6,912.89	6,329.00	6,319.16	119.33	27.55	-41.89	97.05	355.26	3,640.02	3,574.75	65.27	55.767		
11,000.00	6,911.81	6,329.00	6,319.16	122.06	27.55	-41.89	97.05	355.26	3,737.40	3,672.08	65.32	57.220		
11,100.00	6,910.73	6,329.00	6,319.16	124.79	27.55	-41.89	97.05	355.26	3,834.91	3,769.55	65.36	58.675		
11,200.00	6,909.65	6,329.00	6,319.16	127.53	27.55	-41.89	97.05	355.26	3,932.55	3,867.14	65.40	60.130		
11,300.00	6,908.57	6,329.00	6,319.16	130.27	27.55	-41.89	97.05	355.26	4,030.30	3,964.85	65.44	61.586		
11,400.00	6,907.49	6,329.00	6,319.16	133.02	27.55	-41.89	97.05	355.26	4,128.16	4,062.67	65.48	63.042		
11,500.00	6,906.41	6,329.00	6,319.16	135.77	27.55	-41.89	97.05	355.26	4,226.12	4,160.59	65.52	64.498		
11,600.00	6,905.34	6,329.00	6,319.16	138.52	27.55	-41.89	97.05	355.26	4,324.17	4,258.60	65.56	65.953		
11,700.00	6,904.26	6,329.00	6,319.16	141.28	27.55	-41.89	97.05	355.26	4,422.31	4,356.70	65.60	67.409		
11,800.00	6,903.18	6,329.00	6,319.16	144.04	27.55	-41.89	97.05	355.26	4,520.53	4,454.89	65.65	68.863		
11,900.00	6,902.10	6,329.00	6,319.16	146.80	27.55	-41.89	97.05	355.26	4,618.83	4,553.14	65.69	70.317		
12,000.00	6,901.02	6,329.00	6,319.16	149.57	27.55	-41.89	97.05	355.26	4,717.20	4,651.47	65.73	71.770		
12,100.00	6,899.94	6,329.00	6,319.16	152.34	27.55	-41.89	97.05	355.26	4,815.63	4,749.87	65.77	73.221		
12,200.00	6,898.87	6,329.00	6,319.16	155.11	27.55	-41.89	97.05	355.26	4,914.13	4,848.32	65.81	74.671		
12,300.00	6,897.79	6,329.00	6,319.16	157.89	27.55	-41.89	97.05	355.26	5,012.69	4,946.84	65.85	76.120		
12,400.00	6,896.71	6,329.00	6,319.16	160.66	27.55	-41.89	97.05	355.26	5,111.31	5,045.41	65.90	77.567		
12,500.00	6,895.63	6,329.00	6,319.16	163.44	27.55	-41.89	97.05	355.26	5,209.98	5,144.04	65.94	79.012		
12,600.00	6,894.55	6,329.00	6,319.16	166.22	27.55	-41.89	97.05	355.26	5,308.69	5,242.71	65.98	80.456		
12,700.00	6,893.47	6,329.00	6,319.16	169.00	27.55	-41.89	97.05	355.26	5,407.46	5,341.43	66.03	81.897		
12,800.00	6,892.39	6,329.00	6,319.16	171.79	27.55	-41.89	97.05	355.26	5,506.27	5,440.20	66.07	83.337		
12,900.00	6,891.32	6,329.00	6,319.16	174.57	27.55	-41.89	97.05	355.26	5,605.12	5,539.00	66.12	84.774		
13,000.00	6,890.24	6,329.00	6,319.16	177.36	27.55	-41.89	97.05	355.26	5,704.01	5,637.85	66.17	86.209		
13,100.00	6,889.16	6,329.00	6,319.16	180.15	27.55	-41.89	97.05	355.26	5,802.94	5,736.73	66.21	87.641		
13,200.00	6,888.08	6,329.00	6,319.16	182.94	27.55	-41.89	97.05	355.26	5,901.91	5,835.65	66.26	89.071		
13,300.00	6,887.00	6,329.00	6,319.16	185.74	27.55	-41.89	97.05	355.26	6,000.91	5,934.60	66.31	90.499		
13,400.00	6,885.92	6,329.00	6,319.16	188.53	27.55	-41.89	97.05	355.26	6,099.94	6,033.58	66.36	91.924		
13,500.00	6,884.84	6,329.00	6,319.16	191.32	27.55	-41.89	97.05	355.26	6,199.01	6,132.60	66.41	93.346		
13,600.00	6,883.77	6,329.00	6,319.16	194.12	27.55	-41.89	97.05	355.26	6,298.10	6,231.64	66.46	94.765		
13,700.00	6,882.69	6,329.00	6,319.16	196.92	27.55	-41.89	97.05	355.26	6,397.22	6,330.71	66.51	96.181		
13,800.00	6,881.61	6,329.00	6,319.16	199.72	27.55	-41.89	97.05	355.26	6,496.37	6,429.80	66.56	97.595		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 39-MWWD													Boomerang 21-5 - SRC Wiedeman #A-5-3NBHZ - OH - OH		Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
13,900.00	6,880.53	6,329.00	6,319.16	202.52	27.55	-41.89	97.05	355.26	6,595.54	6,528.93	66.62	99.005				
14,000.00	6,879.45	6,329.00	6,319.16	205.32	27.55	-41.89	97.05	355.26	6,694.74	6,628.07	66.67	100.412				
14,100.00	6,878.37	6,329.00	6,319.16	208.12	27.55	-41.89	97.05	355.26	6,793.96	6,727.24	66.73	101.817				
14,200.00	6,877.29	6,329.00	6,319.16	210.92	27.55	-41.89	97.05	355.26	6,893.21	6,826.43	66.78	103.218				
14,300.00	6,876.22	6,329.00	6,319.16	213.73	27.55	-41.89	97.05	355.26	6,992.48	6,925.64	66.84	104.615				
14,400.00	6,875.14	6,329.00	6,319.16	216.53	27.55	-41.89	97.05	355.26	7,091.76	7,024.87	66.90	106.009				
14,500.00	6,874.06	6,329.00	6,319.16	219.34	27.55	-41.89	97.05	355.26	7,191.07	7,124.11	66.96	107.400				
14,600.00	6,872.98	6,329.00	6,319.16	222.15	27.55	-41.89	97.05	355.26	7,290.39	7,223.38	67.01	108.788				
14,700.00	6,871.90	6,329.00	6,319.16	224.95	27.55	-41.89	97.05	355.26	7,389.74	7,322.66	67.07	110.172				
14,800.00	6,870.82	6,329.00	6,319.16	227.76	27.55	-41.89	97.05	355.26	7,489.10	7,421.96	67.14	111.552				
14,900.00	6,869.75	6,329.00	6,319.16	230.57	27.55	-41.89	97.05	355.26	7,588.48	7,521.28	67.20	112.929				
15,000.00	6,868.67	6,329.00	6,319.16	233.38	27.55	-41.89	97.05	355.26	7,687.87	7,620.61	67.26	114.303				
15,100.00	6,867.59	6,329.00	6,319.16	236.19	27.55	-41.89	97.05	355.26	7,787.28	7,719.96	67.32	115.672				
15,200.00	6,866.51	6,329.00	6,319.16	239.00	27.55	-41.89	97.05	355.26	7,886.71	7,819.32	67.39	117.038				
15,300.00	6,865.43	6,329.00	6,319.16	241.81	27.55	-41.89	97.05	355.26	7,986.15	7,918.70	67.45	118.400				
15,400.00	6,864.35	6,329.00	6,319.16	244.63	27.55	-41.89	97.05	355.26	8,085.60	8,018.08	67.52	119.758				
15,500.00	6,863.27	6,329.00	6,319.16	247.44	27.55	-41.89	97.05	355.26	8,185.06	8,117.48	67.58	121.113				
15,600.00	6,862.20	6,329.00	6,319.16	250.25	27.55	-41.89	97.05	355.26	8,284.54	8,216.89	67.65	122.464				
15,618.10	6,862.00	6,329.00	6,319.16	250.76	27.55	-41.89	97.05	355.26	8,302.55	8,234.89	67.66	122.708				

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - SRC Wiedeman 22-5-4NBHZ - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 39-MWD														Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	0.00	-77.99	197.11	-926.70	4,882.80						
100.00	100.00	0.00	0.00	3.28	0.00	-77.99	197.11	-926.70	4,784.74	4,777.83	6.91	692.516			
200.00	200.00	0.00	0.00	3.34	0.00	-77.99	197.11	-926.70	4,686.76	4,679.98	6.78	690.777			
300.00	299.98	0.00	0.00	3.44	0.00	-136.48	197.11	-926.70	4,589.12	4,582.46	6.66	689.034			
400.00	399.84	0.00	0.00	3.61	0.00	-141.66	197.11	-926.70	4,492.18	4,485.64	6.54	687.358			
500.00	499.45	0.00	0.00	3.81	0.00	-145.76	197.11	-926.70	4,396.11	4,389.69	6.41	685.429			
600.00	598.70	0.00	0.00	4.06	0.00	-149.05	197.11	-926.70	4,301.08	4,294.78	6.30	683.099			
700.00	697.47	0.00	0.00	4.35	0.00	-151.73	197.11	-926.70	4,207.28	4,201.10	6.19	680.156			
800.00	795.62	0.00	0.00	4.66	0.00	-153.93	197.11	-926.70	4,114.93	4,108.85	6.08	676.302			
900.00	893.06	0.00	0.00	5.01	0.00	-155.76	197.11	-926.70	4,024.23	4,018.24	6.00	671.135			
961.44	952.51	0.00	0.00	5.25	0.00	-156.74	197.11	-926.70	3,969.43	3,963.48	5.95	667.453			
1,000.00	989.71	0.00	0.00	5.40	0.00	-156.74	197.11	-926.70	3,935.30	3,929.38	5.92	664.389			
1,100.00	1,086.20	0.00	0.00	5.81	0.00	-156.74	197.11	-926.70	3,847.20	3,841.32	5.89	653.375			
1,200.00	1,182.69	0.00	0.00	6.24	0.00	-156.74	197.11	-926.70	3,759.70	3,753.83	5.87	640.023			
1,300.00	1,279.18	0.00	0.00	6.69	0.00	-156.74	197.11	-926.70	3,672.83	3,666.95	5.88	624.217			
1,400.00	1,375.67	0.00	0.00	7.15	0.00	-156.74	197.11	-926.70	3,586.65	3,580.73	5.92	605.922			
1,500.00	1,472.15	0.00	0.00	7.62	0.00	-156.74	197.11	-926.70	3,501.21	3,495.22	5.98	585.202			
1,600.00	1,568.64	0.00	0.00	8.10	0.00	-156.74	197.11	-926.70	3,416.55	3,410.47	6.08	562.229			
1,700.00	1,665.13	0.00	0.00	8.59	0.00	-156.74	197.11	-926.70	3,332.74	3,326.54	6.20	537.280			
1,800.00	1,761.62	0.00	0.00	9.08	0.00	-156.74	197.11	-926.70	3,249.85	3,243.49	6.36	510.725			
1,900.00	1,858.11	0.00	0.00	9.58	0.00	-156.74	197.11	-926.70	3,167.95	3,161.39	6.56	482.997			
2,000.00	1,954.60	0.00	0.00	10.08	0.00	-156.74	197.11	-926.70	3,087.11	3,080.32	6.79	454.567			
2,100.00	2,051.09	0.00	0.00	10.59	0.00	-156.74	197.11	-926.70	3,007.43	3,000.37	7.06	425.905			
2,200.00	2,147.57	0.00	0.00	11.09	0.00	-156.74	197.11	-926.70	2,928.99	2,921.62	7.37	397.454			
2,300.00	2,244.06	0.00	0.00	11.61	0.00	-156.74	197.11	-926.70	2,851.91	2,844.19	7.72	369.606			
2,400.00	2,340.55	0.00	0.00	12.12	0.00	-156.74	197.11	-926.70	2,776.28	2,768.18	8.10	342.687			
2,500.00	2,437.04	0.00	0.00	12.64	0.00	-156.74	197.11	-926.70	2,702.24	2,693.71	8.53	316.954			
2,600.00	2,533.53	0.00	0.00	13.15	0.00	-156.74	197.11	-926.70	2,629.92	2,620.93	8.99	292.594			
2,700.00	2,630.02	0.00	0.00	13.67	0.00	-156.74	197.11	-926.70	2,559.46	2,549.97	9.49	269.729			
2,800.00	2,726.50	0.00	0.00	14.19	0.00	-156.74	197.11	-926.70	2,491.02	2,481.00	10.03	248.429			
2,900.00	2,822.99	0.00	0.00	14.72	0.00	-156.74	197.11	-926.70	2,424.78	2,414.18	10.60	228.717			
3,000.00	2,919.48	0.00	0.00	15.24	0.00	-156.74	197.11	-926.70	2,360.92	2,349.71	11.21	210.583			
3,100.00	3,015.97	0.00	0.00	15.76	0.00	-156.74	197.11	-926.70	2,299.63	2,287.78	11.85	193.989			
3,200.00	3,112.46	0.00	0.00	16.29	0.00	-156.74	197.11	-926.70	2,241.13	2,228.60	12.53	178.880			
3,300.00	3,208.95	0.00	0.00	16.81	0.00	-156.74	197.11	-926.70	2,185.64	2,172.41	13.23	165.190			
3,400.00	3,305.44	0.00	0.00	17.34	0.00	-156.74	197.11	-926.70	2,133.40	2,119.44	13.96	152.844			
3,500.00	3,401.92	0.00	0.00	17.87	0.00	-156.74	197.11	-926.70	2,084.65	2,069.94	14.71	141.764			
3,600.00	3,498.41	0.00	0.00	18.40	0.00	-156.74	197.11	-926.70	2,039.64	2,024.17	15.47	131.873			
3,700.00	3,594.90	0.00	0.00	18.93	0.00	-156.74	197.11	-926.70	1,998.62	1,982.39	16.24	123.092			
3,800.00	3,691.39	0.00	0.00	19.46	0.00	-156.74	197.11	-926.70	1,961.85	1,944.84	17.01	115.349			
3,900.00	3,787.88	0.00	0.00	19.99	0.00	-156.74	197.11	-926.70	1,929.57	1,911.79	17.77	108.572			
4,000.00	3,884.37	0.00	0.00	20.52	0.00	-156.74	197.11	-926.70	1,902.00	1,883.48	18.52	102.695			
4,100.00	3,980.85	0.00	0.00	21.05	0.00	-156.74	197.11	-926.70	1,879.35	1,860.10	19.25	97.654			
4,200.00	4,077.34	0.00	0.00	21.58	0.00	-156.74	197.11	-926.70	1,861.81	1,841.87	19.94	93.392			
4,300.00	4,173.83	0.00	0.00	22.11	0.00	-156.74	197.11	-926.70	1,849.51	1,828.93	20.58	89.853			
4,390.25	4,260.91	0.00	0.00	22.59	0.00	-156.74	197.11	-926.70	1,843.01	1,821.88	21.13	87.240			
4,400.00	4,270.32	0.00	0.00	22.64	0.00	-156.74	197.11	-926.70	1,842.55	1,821.37	21.18	86.989			
4,500.00	4,367.33	0.00	0.00	23.16	0.00	-156.71	197.11	-926.70	1,839.11	1,817.39	21.71	84.696			
4,600.00	4,465.13	0.00	0.00	23.65	0.00	-156.70	197.11	-926.70	1,837.89	1,815.72	22.17	82.893			
4,604.48	4,469.53	0.00	0.00	23.67	0.00	-156.70	197.11	-926.70	1,837.89	1,815.70	22.19	82.824			
4,700.00	4,563.60	0.00	0.00	24.12	0.00	-156.71	197.11	-926.70	1,838.91	1,816.35	22.55	81.542			
4,800.00	4,662.61	0.00	0.00	24.56	0.00	-156.73	197.11	-926.70	1,842.15	1,819.30	22.85	80.615			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - SRC Wiedeman 22-5-4NBHZ - OH - OH													Offset Well Error:	0.00 ft
Survey Program: 39-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	0.00	0.00	24.98	0.00	-156.78	197.11	-926.70	1,847.61	1,824.54	23.07	80.086		
5,000.00	4,861.80	59.68	59.67	25.38	0.18	-156.88	196.87	-926.87	1,854.13	1,830.58	23.55	78.715		
5,100.00	4,961.73	148.79	148.79	25.76	0.57	-156.96	196.34	-927.59	1,858.34	1,834.03	24.31	76.434		
5,151.69	5,013.42	194.68	194.67	25.95	0.77	-105.09	195.99	-928.16	1,859.49	1,834.79	24.70	75.294		
5,200.00	5,061.73	237.74	237.72	26.13	0.96	-105.10	195.58	-928.81	1,860.30	1,835.25	25.05	74.254		
5,300.00	5,161.73	336.31	336.27	26.49	1.39	-105.11	194.70	-930.47	1,862.17	1,836.31	25.86	72.007		
5,400.00	5,261.73	432.36	432.30	26.86	1.82	-105.14	193.24	-932.06	1,864.17	1,837.52	26.65	69.944		
5,500.00	5,361.73	521.85	521.74	27.23	2.21	-105.20	190.74	-933.62	1,866.58	1,839.18	27.40	68.129		
5,600.00	5,461.73	625.77	625.56	27.60	2.68	-105.31	186.54	-935.19	1,869.10	1,840.85	28.25	66.162		
5,700.00	5,561.73	714.56	714.21	27.97	3.07	-105.45	181.67	-936.39	1,871.86	1,842.87	29.00	64.557		
5,800.00	5,661.73	800.11	799.54	28.35	3.46	-105.61	175.69	-937.80	1,875.32	1,845.60	29.72	63.098		
5,900.00	5,761.73	887.70	886.82	28.72	3.87	-105.81	168.56	-939.59	1,879.51	1,849.04	30.47	61.692		
6,000.00	5,861.73	964.74	963.53	29.10	4.23	-105.99	161.81	-941.73	1,884.60	1,853.47	31.13	60.536		
6,100.00	5,961.73	1,043.56	1,041.96	29.48	4.60	-106.17	154.57	-944.83	1,890.94	1,859.13	31.81	59.443		
6,200.00	6,061.73	1,131.51	1,129.42	29.86	5.02	-106.38	146.34	-949.09	1,898.22	1,865.66	32.57	58.290		
6,300.00	6,161.73	1,225.94	1,223.32	30.25	5.48	-106.58	137.67	-954.01	1,905.84	1,872.46	33.37	57.107		
6,400.00	6,261.73	1,322.49	1,319.38	30.63	5.94	-106.76	129.76	-959.65	1,913.80	1,879.60	34.20	55.961		
6,451.69	6,313.42	1,381.62	1,378.23	30.83	6.23	-106.87	125.09	-963.03	1,917.81	1,883.11	34.70	55.265		
6,500.00	6,361.68	1,425.33	1,421.73	31.01	6.44	-14.46	121.52	-965.41	1,919.72	1,884.65	35.07	54.746		
6,550.00	6,411.34	1,466.63	1,462.79	31.20	6.64	-14.62	117.75	-967.72	1,918.17	1,882.78	35.39	54.198		
6,600.00	6,460.39	1,515.56	1,511.39	31.38	6.88	-14.93	112.77	-970.47	1,913.02	1,877.25	35.77	53.479		
6,650.00	6,508.54	1,573.05	1,568.44	31.58	7.16	-15.43	106.26	-973.28	1,903.97	1,867.76	36.21	52.577		
6,700.00	6,555.48	1,627.85	1,622.74	31.78	7.44	-16.11	99.20	-975.44	1,891.07	1,854.45	36.63	51.633		
6,750.00	6,600.93	1,681.08	1,675.34	31.98	7.72	-16.99	91.19	-976.93	1,874.45	1,837.44	37.01	50.644		
6,800.00	6,644.61	1,745.12	1,738.55	32.20	8.05	-18.22	80.99	-978.02	1,854.09	1,816.61	37.49	49.462		
6,850.00	6,686.25	1,810.74	1,803.36	32.44	8.38	-19.78	70.71	-978.40	1,830.01	1,792.05	37.96	48.209		
6,900.00	6,725.58	1,875.72	1,867.61	32.68	8.72	-21.72	61.05	-977.98	1,802.30	1,763.88	38.42	46.913		
6,950.00	6,762.38	1,895.38	1,887.06	32.96	8.82	-23.37	58.15	-977.88	1,771.73	1,733.23	38.50	46.015		
7,000.00	6,796.41	1,919.07	1,910.49	33.25	8.94	-25.45	54.63	-977.86	1,738.73	1,700.11	38.62	45.026		
7,050.00	6,827.46	1,940.99	1,932.15	33.58	9.05	-27.95	51.33	-977.95	1,703.47	1,664.76	38.71	44.002		
7,100.00	6,855.34	1,960.00	1,950.95	33.93	9.15	-30.95	48.44	-978.12	1,666.17	1,627.38	38.79	42.953		
7,150.00	6,879.88	1,981.33	1,972.02	34.33	9.26	-34.73	45.18	-978.39	1,626.99	1,588.09	38.90	41.827		
7,200.00	6,900.93	1,998.97	1,989.45	34.76	9.35	-39.27	42.45	-978.66	1,586.16	1,547.17	38.99	40.683		
7,250.00	6,918.36	2,013.89	2,004.19	35.23	9.43	-44.77	40.14	-978.92	1,543.92	1,504.85	39.07	39.512		
7,300.00	6,932.05	2,025.98	2,016.12	35.74	9.50	-51.35	38.25	-979.15	1,500.53	1,461.37	39.16	38.315		
7,350.00	6,941.94	2,035.10	2,025.13	36.29	9.54	-59.05	36.82	-979.34	1,456.26	1,417.00	39.26	37.096		
7,400.00	6,947.94	2,041.17	2,031.12	36.87	9.58	-67.75	35.87	-979.47	1,411.37	1,372.01	39.36	35.857		
7,450.00	6,950.04	2,044.10	2,034.01	37.47	9.59	-77.10	35.41	-979.53	1,366.16	1,326.68	39.48	34.603		
7,458.56	6,950.00	2,044.27	2,034.19	37.58	9.59	-78.73	35.38	-979.54	1,358.41	1,318.91	39.51	34.386		
7,500.00	6,949.56	2,044.92	2,034.83	38.11	9.60	-78.79	35.28	-979.55	1,321.00	1,281.37	39.63	33.337		
7,600.00	6,948.48	2,046.50	2,036.39	39.51	9.60	-78.95	35.03	-979.59	1,231.77	1,191.74	40.03	30.770		
7,700.00	6,947.40	2,048.12	2,037.99	41.06	9.61	-79.11	34.77	-979.63	1,144.32	1,103.68	40.64	28.157		
7,800.00	6,946.32	2,049.78	2,039.62	42.74	9.62	-79.28	34.51	-979.66	1,059.09	1,017.57	41.52	25.506		
7,900.00	6,945.24	2,051.48	2,041.30	44.55	9.63	-79.45	34.24	-979.70	976.67	933.90	42.77	22.838		
8,000.00	6,944.16	2,053.22	2,043.02	46.46	9.64	-79.62	33.97	-979.74	897.82	853.35	44.47	20.189		
8,100.00	6,943.08	2,055.00	2,044.77	48.47	9.65	-79.80	33.69	-979.79	823.57	776.82	46.75	17.618		
8,200.00	6,942.01	2,057.33	2,047.08	50.55	9.66	-80.03	33.32	-979.84	755.28	705.59	49.69	15.199		
8,300.00	6,940.93	2,059.57	2,049.29	52.71	9.67	-80.25	32.97	-979.90	694.71	641.38	53.33	13.027		
8,400.00	6,939.85	2,061.74	2,051.43	54.93	9.68	-80.47	32.62	-979.94	644.04	586.48	57.56	11.189		
8,500.00	6,938.77	2,063.82	2,053.49	57.20	9.70	-80.67	32.30	-979.99	605.76	543.68	62.08	9.758		
8,600.00	6,937.69	2,065.83	2,055.47	59.53	9.71	-80.87	31.98	-980.04	582.31	515.95	66.37	8.774		
8,689.31	6,936.73	2,067.57	2,057.19	61.64	9.71	-81.05	31.71	-980.08	575.43	505.92	69.51	8.279 CC		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 39-MWD													Boomerang 21-5 - SRC Wiedeman 22-5-4NBHZ - OH - OH		Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
8,700.00	6,936.61	2,067.78	2,057.39	61.89	9.72	-81.07	31.68	-980.08	575.53	505.71	69.82	8.244 ES				
8,800.00	6,935.54	2,069.65	2,059.24	64.30	9.73	-81.25	31.38	-980.12	585.97	514.01	71.96	8.143 SF				
8,900.00	6,934.46	2,071.47	2,061.03	66.74	9.74	-81.44	31.10	-980.16	612.78	540.06	72.72	8.427				
9,000.00	6,933.38	2,073.22	2,062.76	69.21	9.74	-81.61	30.83	-980.20	653.92	581.60	72.32	9.042				
9,100.00	6,932.30	2,074.91	2,064.44	71.71	9.75	-81.78	30.56	-980.23	706.92	635.75	71.17	9.933				
9,200.00	6,931.22	2,076.56	2,066.06	74.23	9.76	-81.94	30.31	-980.27	769.31	699.69	69.62	11.049				
9,300.00	6,930.14	2,078.15	2,067.63	76.78	9.77	-82.10	30.06	-980.30	839.02	771.07	67.94	12.349				
9,400.00	6,929.06	2,079.69	2,069.15	79.34	9.78	-82.25	29.82	-980.33	914.36	848.07	66.28	13.795				
9,500.00	6,927.99	2,081.18	2,070.63	81.93	9.79	-82.40	29.59	-980.36	994.05	929.34	64.72	15.360				
9,600.00	6,926.91	2,082.63	2,072.06	84.53	9.79	-82.55	29.36	-980.39	1,077.14	1,013.85	63.29	17.020				
9,700.00	6,925.83	2,084.04	2,073.45	87.14	9.80	-82.69	29.14	-980.42	1,162.89	1,100.89	62.00	18.757				
9,800.00	6,924.75	2,085.40	2,074.80	89.77	9.81	-82.82	28.93	-980.44	1,250.76	1,189.91	60.85	20.556				
9,900.00	6,923.67	2,086.73	2,076.11	92.41	9.82	-82.95	28.73	-980.47	1,340.33	1,280.51	59.82	22.406				
10,000.00	6,922.59	2,088.02	2,077.38	95.07	9.82	-83.08	28.53	-980.49	1,431.28	1,372.37	58.90	24.298				
10,100.00	6,921.51	2,089.27	2,078.62	97.73	9.83	-83.21	28.34	-980.51	1,523.36	1,465.27	58.09	26.224				
10,200.00	6,920.44	2,090.49	2,079.82	100.40	9.84	-83.33	28.15	-980.54	1,616.38	1,559.02	57.36	28.178				
10,300.00	6,919.36	2,091.67	2,080.99	103.08	9.84	-83.45	27.97	-980.56	1,710.19	1,653.48	56.71	30.155				
10,400.00	6,918.28	2,092.83	2,082.13	105.77	9.85	-83.56	27.79	-980.58	1,804.66	1,748.53	56.13	32.150				
10,500.00	6,917.20	2,093.95	2,083.24	108.47	9.85	-83.67	27.61	-980.60	1,899.70	1,844.09	55.61	34.162				
10,600.00	6,916.12	2,095.04	2,084.32	111.18	9.86	-83.78	27.45	-980.62	1,995.22	1,940.09	55.14	36.186				
10,700.00	6,915.04	2,096.11	2,085.37	113.89	9.87	-83.89	27.28	-980.64	2,091.16	2,036.45	54.71	38.221				
10,800.00	6,913.96	2,097.15	2,086.40	116.61	9.87	-83.99	27.12	-980.65	2,187.47	2,133.14	54.33	40.264				
10,900.00	6,912.89	2,098.16	2,087.40	119.33	9.88	-84.09	26.97	-980.67	2,284.09	2,230.11	53.98	42.314				
11,000.00	6,911.81	2,099.15	2,088.37	122.06	9.88	-84.19	26.82	-980.69	2,380.99	2,327.33	53.66	44.369				
11,100.00	6,910.73	2,100.11	2,089.33	124.79	9.89	-84.28	26.67	-980.71	2,478.13	2,424.76	53.38	46.428				
11,200.00	6,909.65	2,101.05	2,090.25	127.53	9.89	-84.38	26.53	-980.72	2,575.50	2,522.38	53.11	48.491				
11,300.00	6,908.57	2,101.96	2,091.16	130.27	9.90	-84.47	26.39	-980.74	2,673.05	2,620.18	52.87	50.555				
11,400.00	6,907.49	2,102.86	2,092.04	133.02	9.90	-84.56	26.25	-980.75	2,770.79	2,718.13	52.66	52.621				
11,500.00	6,906.41	2,103.73	2,092.91	135.77	9.91	-84.64	26.12	-980.76	2,868.67	2,816.22	52.46	54.687				
11,600.00	6,905.34	2,104.59	2,093.75	138.52	9.91	-84.73	25.99	-980.78	2,966.70	2,914.43	52.27	56.754				
11,700.00	6,904.26	2,105.42	2,094.58	141.28	9.91	-84.81	25.86	-980.79	3,064.86	3,012.75	52.11	58.819				
11,800.00	6,903.18	2,106.24	2,095.38	144.04	9.92	-84.89	25.73	-980.80	3,163.13	3,111.17	51.95	60.884				
11,900.00	6,902.10	2,107.04	2,096.17	146.80	9.92	-84.97	25.61	-980.82	3,261.50	3,209.69	51.81	62.946				
12,000.00	6,901.02	2,107.82	2,096.94	149.57	9.93	-85.05	25.49	-980.83	3,359.97	3,308.29	51.69	65.007				
12,100.00	6,899.94	2,108.58	2,097.70	152.34	9.93	-85.12	25.38	-980.84	3,458.53	3,406.96	51.57	67.065				
12,200.00	6,898.87	2,109.33	2,098.43	155.11	9.93	-85.20	25.26	-980.85	3,557.17	3,505.71	51.46	69.121				
12,300.00	6,897.79	2,110.06	2,099.16	157.89	9.94	-85.27	25.15	-980.86	3,655.88	3,604.51	51.37	71.173				
12,400.00	6,896.71	2,110.77	2,099.86	160.66	9.94	-85.34	25.05	-980.87	3,754.66	3,703.38	51.28	73.222				
12,500.00	6,895.63	2,111.47	2,100.56	163.44	9.95	-85.41	24.94	-980.89	3,853.50	3,802.31	51.20	75.268				
12,600.00	6,894.55	2,112.16	2,101.23	166.22	9.95	-85.48	24.83	-980.90	3,952.40	3,901.28	51.12	77.309				
12,700.00	6,893.47	2,112.83	2,101.90	169.00	9.95	-85.54	24.73	-980.91	4,051.36	4,000.30	51.06	79.347				
12,800.00	6,892.39	2,113.49	2,102.55	171.79	9.96	-85.61	24.63	-980.92	4,150.36	4,099.36	51.00	81.380				
12,900.00	6,891.32	2,114.13	2,103.18	174.57	9.96	-85.67	24.54	-980.92	4,249.41	4,198.47	50.95	83.408				
13,000.00	6,890.24	2,114.76	2,103.81	177.36	9.96	-85.74	24.44	-980.93	4,348.51	4,297.61	50.90	85.432				
13,100.00	6,889.16	2,115.38	2,104.42	180.15	9.97	-85.80	24.35	-980.94	4,447.64	4,396.78	50.86	87.451				
13,200.00	6,888.08	2,115.99	2,105.02	182.94	9.97	-85.86	24.25	-980.95	4,546.82	4,495.99	50.82	89.465				
13,300.00	6,887.00	2,116.59	2,105.61	185.74	9.97	-85.92	24.16	-980.96	4,646.02	4,595.23	50.79	91.473				
13,400.00	6,885.92	2,117.17	2,106.19	188.53	9.98	-85.97	24.08	-980.97	4,745.27	4,694.50	50.76	93.476				
13,500.00	6,884.84	2,117.74	2,106.75	191.32	9.98	-86.03	23.99	-980.98	4,844.54	4,793.80	50.74	95.474				
13,600.00	6,883.77	2,118.31	2,107.31	194.12	9.98	-86.09	23.90	-980.98	4,943.84	4,893.11	50.72	97.466				
13,700.00	6,882.69	2,118.86	2,107.86	196.92	9.99	-86.14	23.82	-980.99	5,043.17	4,992.46	50.71	99.452				
13,800.00	6,881.61	2,119.40	2,108.39	199.72	9.99	-86.19	23.74	-981.00	5,142.52	5,091.82	50.70	101.432				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Boomerang 21-5 - SRC Wiedeman 22-5-4NBHZ - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor	
13,900.00	6,880.53	2,119.93	2,108.92	202.52	9.99	-86.25	23.66	-981.01	5,241.90	5,191.21	50.69	103.406		
14,000.00	6,879.45	2,120.45	2,109.43	205.32	9.99	-86.30	23.58	-981.01	5,341.30	5,290.61	50.69	105.374		
14,100.00	6,878.37	2,120.97	2,109.94	208.12	10.00	-86.35	23.50	-981.02	5,440.73	5,390.04	50.69	107.336		
14,200.00	6,877.29	2,121.47	2,110.44	210.92	10.00	-86.40	23.43	-981.03	5,540.17	5,489.48	50.69	109.291		
14,300.00	6,876.22	2,121.97	2,110.93	213.73	10.00	-86.45	23.35	-981.03	5,639.64	5,588.94	50.70	111.240		
14,400.00	6,875.14	2,311.00	2,297.88	216.53	11.00	-104.06	-3.96	-986.49	5,739.20	5,687.23	51.97	110.430		
14,500.00	6,874.06	2,320.31	2,307.07	219.34	11.05	-104.85	-5.36	-986.93	5,838.62	5,786.57	52.04	112.186		
14,600.00	6,872.98	2,330.08	2,316.72	222.15	11.10	-105.66	-6.85	-987.39	5,938.05	5,885.92	52.12	113.924		
14,700.00	6,871.90	2,340.36	2,326.87	224.95	11.16	-106.51	-8.43	-987.89	6,037.49	5,985.28	52.21	115.642		
14,800.00	6,870.82	2,351.19	2,337.55	227.76	11.21	-107.38	-10.11	-988.43	6,136.94	6,084.64	52.30	117.339		
14,900.00	6,869.75	14,900.00	2,306.47	230.57	78.29	-104.79	-5.38	-986.97	6,236.39	6,117.67	118.72	52.529		
15,000.00	6,868.67	15,000.00	2,310.38	233.38	78.83	-105.12	-5.96	-987.14	6,335.89	6,216.62	119.27	53.122		
15,100.00	6,867.59	15,100.00	2,314.29	236.19	79.36	-105.45	-6.54	-987.32	6,435.41	6,315.59	119.82	53.709		
15,200.00	6,866.51	15,200.00	2,318.20	239.00	79.90	-105.78	-7.12	-987.49	6,534.94	6,414.56	120.37	54.289		
15,300.00	6,865.43	15,300.00	2,322.10	241.81	80.43	-106.11	-7.70	-987.67	6,634.48	6,513.55	120.93	54.863		
15,400.00	6,864.35	15,400.00	2,326.01	244.63	80.97	-106.44	-8.28	-987.84	6,734.03	6,612.54	121.49	55.431		
15,500.00	6,863.27	15,500.00	2,329.92	247.44	81.50	-106.76	-8.86	-988.01	6,833.59	6,711.54	122.04	55.992		
15,600.00	6,862.20	2,358.53	2,344.80	250.25	11.25	-107.97	-11.21	-988.75	6,933.10	6,880.56	52.54	131.954		
15,618.10	6,862.00	2,358.91	2,345.17	250.76	11.26	-108.00	-11.27	-988.76	6,951.12	6,898.57	52.55	132.276		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-76.35	227.35	-936.16	964.08					
100.00	100.00	59.02	59.02	3.28	3.29	-76.35	227.38	-936.25	963.47	956.90	6.57	146.590		
200.00	200.00	150.54	150.54	3.34	3.34	-76.34	227.67	-936.98	964.32	957.64	6.68	144.405		
300.00	299.98	259.73	259.72	3.44	3.46	-128.31	227.71	-937.98	966.31	959.41	6.90	139.969		
400.00	399.84	345.94	345.91	3.61	3.60	-128.54	226.41	-939.30	970.70	963.49	7.20	134.798		
500.00	499.45	431.37	431.25	3.81	3.77	-128.96	223.59	-942.11	978.63	971.05	7.58	129.091		
600.00	598.70	507.63	507.28	4.06	3.95	-129.47	219.54	-946.33	990.68	982.66	8.02	123.556		
700.00	697.47	578.97	578.15	4.35	4.15	-130.09	214.06	-952.33	1,007.55	999.04	8.51	118.429		
800.00	795.62	654.98	653.28	4.66	4.39	-130.90	206.38	-960.93	1,029.43	1,020.37	9.06	113.654		
900.00	893.06	749.13	746.08	5.01	4.73	-132.09	195.70	-972.60	1,055.12	1,045.42	9.70	108.727		
961.44	952.51	809.96	806.02	5.25	4.96	-132.93	188.13	-979.78	1,072.02	1,061.88	10.14	105.722		
1,000.00	989.71	845.87	841.36	5.40	5.11	-133.59	183.39	-983.98	1,083.01	1,072.60	10.41	104.002		
1,100.00	1,086.20	965.54	958.95	5.81	5.64	-135.81	165.48	-997.06	1,111.48	1,100.22	11.26	98.706		
1,200.00	1,182.69	1,116.45	1,106.55	6.24	6.35	-138.76	135.80	-1,006.78	1,136.46	1,124.13	12.33	92.174		
1,300.00	1,279.18	1,216.70	1,203.83	6.69	6.86	-140.83	111.83	-1,010.06	1,159.84	1,146.62	13.22	87.719		
1,400.00	1,375.67	1,348.87	1,331.60	7.15	7.57	-143.53	78.09	-1,012.23	1,183.33	1,169.00	14.33	82.565		
1,500.00	1,472.15	1,422.44	1,402.47	7.62	7.99	-145.03	58.36	-1,012.50	1,206.85	1,191.71	15.15	79.673		
1,600.00	1,568.64	1,510.03	1,486.87	8.10	8.50	-146.75	34.95	-1,013.06	1,231.97	1,215.91	16.06	76.730		
1,700.00	1,665.13	1,586.78	1,560.95	8.59	8.96	-148.18	14.93	-1,014.00	1,258.72	1,241.82	16.90	74.489		
1,800.00	1,761.62	1,683.38	1,654.47	9.08	9.55	-149.88	9.22	-1,015.66	1,286.87	1,269.01	17.87	72.017		
1,900.00	1,858.11	1,775.77	1,744.16	9.58	10.10	-151.39	-31.39	-1,016.87	1,315.45	1,296.63	18.81	69.929		
2,000.00	1,954.60	1,867.61	1,833.32	10.08	10.66	-152.84	-53.35	-1,017.93	1,344.74	1,324.98	19.75	68.079		
2,100.00	2,051.09	1,929.08	1,893.22	10.59	11.02	-153.73	-67.06	-1,019.48	1,375.67	1,355.21	20.46	67.232		
2,200.00	2,147.57	2,014.28	1,976.84	11.09	11.50	-154.76	-82.73	-1,023.89	1,408.66	1,387.35	21.31	66.113		
2,300.00	2,244.06	2,184.88	2,145.80	11.61	12.36	-156.41	-105.41	-1,029.08	1,438.58	1,415.92	22.66	63.478		
2,400.00	2,340.55	2,291.72	2,252.26	12.12	12.84	-157.18	-114.17	-1,031.13	1,466.85	1,443.28	23.57	62.225		
2,500.00	2,437.04	2,412.40	2,372.77	12.64	13.33	-157.88	-120.16	-1,032.72	1,493.86	1,469.34	24.53	60.906		
2,600.00	2,533.53	2,527.95	2,488.29	13.15	13.76	-158.40	-122.20	-1,033.25	1,519.24	1,493.81	25.43	59.744		
2,700.00	2,630.02	2,639.47	2,599.81	13.67	14.14	-158.82	-122.70	-1,033.42	1,544.12	1,517.83	26.29	58.734		
2,800.00	2,726.50	2,738.27	2,698.60	14.19	14.45	-159.12	-121.08	-1,033.23	1,568.08	1,541.01	27.07	57.932		
2,900.00	2,822.99	2,835.14	2,795.45	14.72	14.75	-159.38	-118.83	-1,033.39	1,592.20	1,564.37	27.84	57.200		
3,000.00	2,919.48	2,929.31	2,889.58	15.24	15.05	-159.60	-116.14	-1,033.76	1,616.40	1,587.80	28.60	56.523		
3,100.00	3,015.97	3,014.04	2,974.27	15.76	15.32	-159.80	-113.97	-1,034.42	1,641.07	1,611.75	29.32	55.964		
3,200.00	3,112.46	3,101.08	3,061.29	16.29	15.61	-160.00	-111.96	-1,035.62	1,666.39	1,636.33	30.07	55.423		
3,300.00	3,208.95	3,223.83	3,183.95	16.81	16.01	-160.23	-107.79	-1,036.79	1,690.93	1,659.95	30.98	54.578		
3,400.00	3,305.44	3,308.77	3,268.82	17.34	16.29	-160.37	-104.46	-1,037.65	1,715.44	1,683.72	31.72	54.081		
3,500.00	3,401.92	3,425.78	3,385.76	17.87	16.69	-160.59	-100.69	-1,038.78	1,740.24	1,707.62	32.62	53.347		
3,600.00	3,498.41	3,527.76	3,487.69	18.40	17.04	-160.80	-97.47	-1,037.99	1,763.38	1,729.92	33.45	52.710		
3,700.00	3,594.90	3,617.61	3,577.50	18.93	17.35	-160.98	-95.01	-1,037.69	1,787.09	1,752.85	34.23	52.202		
3,800.00	3,691.39	3,708.01	3,667.88	19.46	17.67	-161.16	-92.73	-1,037.61	1,811.11	1,776.09	35.02	51.716		
3,900.00	3,787.88	3,829.18	3,789.01	19.99	18.10	-161.41	-89.82	-1,037.08	1,834.92	1,798.95	35.97	51.016		
4,000.00	3,884.37	3,926.01	3,885.80	20.52	18.45	-161.61	-87.52	-1,035.87	1,857.99	1,821.19	36.80	50.495		
4,100.00	3,980.85	4,023.34	3,983.10	21.05	18.80	-161.81	-85.13	-1,034.47	1,880.87	1,843.24	37.63	49.984		
4,200.00	4,077.34	4,106.44	4,066.16	21.58	19.10	-161.96	-82.77	-1,033.86	1,904.27	1,865.88	38.39	49.602		
4,300.00	4,173.83	4,198.76	4,158.44	22.11	19.44	-162.11	-79.92	-1,033.80	1,928.22	1,889.01	39.20	49.186		
4,390.25	4,260.91	4,305.01	4,264.62	22.59	19.83	-162.27	-76.31	-1,033.52	1,949.60	1,909.54	40.06	48.667		
4,400.00	4,270.32	4,318.81	4,278.41	22.64	19.88	-162.30	-75.83	-1,033.37	1,951.83	1,911.66	40.16	48.596		
4,500.00	4,367.33	4,419.13	4,378.67	23.16	20.25	-162.58	-72.55	-1,031.80	1,972.42	1,931.40	41.02	48.087		
4,600.00	4,465.13	4,503.36	4,462.86	23.65	20.56	-162.78	-70.19	-1,030.79	1,990.28	1,948.50	41.78	47.640		
4,700.00	4,563.60	4,593.89	4,553.35	24.12	20.91	-162.95	-67.90	-1,030.25	2,005.49	1,962.93	42.56	47.120		
4,800.00	4,662.61	4,681.10	4,640.55	24.56	21.24	-163.08	-65.92	-1,029.99	2,017.78	1,974.46	43.32	46.581		
4,900.00	4,762.05	4,769.51	4,728.94	24.98	21.58	-163.16	-64.24	-1,030.24	2,027.42	1,983.35	44.07	46.005		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #18-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,882.81	4,842.21	25.38	22.03	-163.20	-61.90	-1,030.72	2,033.81	1,988.85	44.96	45.239			
5,100.00	4,961.73	5,014.45	4,973.83	25.76	22.54	-163.21	-59.83	-1,029.24	2,035.60	1,989.66	45.94	44.313			
5,151.69	5,013.42	5,084.08	5,043.42	25.95	22.81	-111.30	-58.67	-1,027.56	2,034.57	1,988.13	46.44	43.810			
5,200.00	5,061.73	5,115.32	5,074.66	26.13	22.93	-111.30	-58.27	-1,026.87	2,033.29	1,986.56	46.73	43.514			
5,300.00	5,161.73	5,197.82	5,157.14	26.49	23.25	-111.30	-57.63	-1,025.37	2,031.31	1,983.89	47.41	42.842			
5,400.00	5,261.73	5,277.94	5,237.25	26.86	23.57	-111.29	-57.26	-1,024.47	2,030.12	1,982.03	48.09	42.218			
5,500.00	5,361.73	5,378.55	5,337.86	27.23	23.98	-111.28	-56.87	-1,024.52	2,030.02	1,981.14	48.88	41.527			
5,600.00	5,461.73	5,529.15	5,488.37	27.60	24.59	-111.39	-59.12	-1,020.12	2,027.70	1,977.72	49.98	40.571			
5,700.00	5,561.73	5,617.34	5,576.45	27.97	24.95	-111.48	-61.30	-1,016.51	2,024.80	1,974.08	50.72	39.921			
5,800.00	5,661.73	5,695.84	5,654.93	28.35	25.27	-111.51	-61.57	-1,014.72	2,022.80	1,971.40	51.40	39.353			
5,900.00	5,761.73	5,792.60	5,751.67	28.72	25.66	-111.48	-60.19	-1,013.77	2,021.36	1,969.17	52.18	38.736			
6,000.00	5,861.73	5,873.00	5,832.03	29.10	25.98	-111.42	-57.80	-1,013.81	2,020.36	1,967.49	52.87	38.217			
6,034.39	5,896.12	5,900.11	5,859.12	29.23	26.08	-111.39	-56.68	-1,014.14	2,020.24	1,967.15	53.10	38.050			
6,100.00	5,961.73	5,942.38	5,901.33	29.48	26.25	-111.32	-54.69	-1,015.18	2,020.62	1,967.15	53.47	37.788			
6,200.00	6,061.73	6,050.28	6,009.02	29.86	26.68	-111.14	-49.07	-1,018.83	2,021.92	1,967.60	54.32	37.222			
6,300.00	6,161.73	6,188.03	6,146.70	30.25	27.23	-111.03	-45.29	-1,019.54	2,021.27	1,965.91	55.36	36.513			
6,400.00	6,261.73	6,276.31	6,234.97	30.63	27.59	-111.03	-44.93	-1,018.83	2,020.39	1,964.29	56.10	36.015			
6,451.69	6,313.42	6,319.55	6,278.21	30.83	27.77	-111.02	-44.68	-1,018.79	2,020.24	1,963.78	56.47	35.777			
6,500.00	6,361.68	6,367.43	6,326.09	31.01	27.96	-18.61	-44.16	-1,018.95	2,018.47	1,961.62	56.85	35.508			
6,550.00	6,411.34	6,416.73	6,375.38	31.20	28.17	-18.80	-43.26	-1,019.27	2,012.99	1,955.78	57.22	35.181			
6,600.00	6,460.39	6,465.52	6,424.15	31.38	28.36	-19.12	-42.06	-1,019.71	2,003.85	1,946.28	57.57	34.806			
6,650.00	6,508.54	6,517.89	6,476.49	31.58	28.58	-19.61	-40.56	-1,020.24	1,991.08	1,933.15	57.94	34.367			
6,700.00	6,555.48	6,574.52	6,533.11	31.78	28.81	-20.32	-39.53	-1,020.34	1,974.59	1,916.28	58.31	33.862			
6,750.00	6,600.93	6,624.82	6,583.41	31.98	29.01	-21.25	-39.20	-1,019.99	1,954.51	1,895.87	58.64	33.332			
6,800.00	6,644.61	6,672.14	6,630.73	32.20	29.21	-22.43	-39.26	-1,019.41	1,931.07	1,872.13	58.93	32.768			
6,850.00	6,686.25	6,701.95	6,660.54	32.44	29.33	-23.77	-39.35	-1,019.08	1,904.60	1,845.49	59.11	32.221			
6,900.00	6,725.58	6,730.14	6,688.72	32.68	29.45	-25.38	-39.32	-1,019.00	1,875.45	1,816.18	59.27	31.643			
6,950.00	6,762.38	6,762.00	6,720.59	32.96	29.58	-27.40	-39.17	-1,019.18	1,843.78	1,784.34	59.44	31.018			
7,000.00	6,796.41	6,793.67	6,752.25	33.25	29.71	-29.89	-38.91	-1,019.46	1,809.64	1,750.03	59.61	30.358			
7,050.00	6,827.46	6,829.99	6,788.57	33.58	29.86	-33.08	-38.53	-1,019.72	1,773.10	1,713.29	59.81	29.646			
7,100.00	6,855.34	6,862.47	6,821.05	33.93	30.00	-37.01	-38.12	-1,019.90	1,734.44	1,674.45	59.99	28.913			
7,150.00	6,879.88	6,880.11	6,838.69	34.33	30.07	-41.46	-37.97	-1,020.00	1,694.04	1,633.96	60.08	28.195			
7,200.00	6,900.93	6,897.70	6,856.28	34.76	30.14	-46.95	-37.87	-1,020.12	1,652.18	1,591.99	60.19	27.449			
7,250.00	6,918.36	6,912.38	6,870.95	35.23	30.20	-53.52	-37.83	-1,020.23	1,609.14	1,548.84	60.30	26.686			
7,300.00	6,932.05	6,924.03	6,882.61	35.74	30.25	-61.21	-37.83	-1,020.32	1,565.20	1,504.79	60.41	25.908			
7,350.00	6,941.94	6,932.58	6,891.15	36.29	30.29	-69.86	-37.85	-1,020.39	1,520.64	1,460.11	60.54	25.119			
7,400.00	6,947.94	6,937.94	6,896.51	36.87	30.31	-79.11	-37.87	-1,020.44	1,475.78	1,415.10	60.68	24.321			
7,450.00	6,950.04	6,940.06	6,898.64	37.47	30.32	-88.40	-37.88	-1,020.46	1,430.90	1,370.05	60.84	23.518			
7,458.56	6,950.00	6,940.10	6,898.67	37.58	30.32	-89.95	-37.88	-1,020.46	1,423.24	1,362.36	60.87	23.380			
7,500.00	6,949.56	6,940.04	6,898.62	38.11	30.32	-89.94	-37.88	-1,020.46	1,386.29	1,325.25	61.04	22.713			
7,600.00	6,948.48	6,939.90	6,898.48	39.51	30.32	-89.93	-37.88	-1,020.45	1,298.25	1,236.70	61.55	21.092			
7,700.00	6,947.40	6,939.77	6,898.34	41.06	30.32	-89.92	-37.88	-1,020.45	1,212.08	1,149.79	62.29	19.460			
7,800.00	6,946.32	6,939.62	6,898.20	42.74	30.32	-89.90	-37.88	-1,020.45	1,128.18	1,064.88	63.30	17.823			
7,900.00	6,945.24	6,939.48	6,898.06	44.55	30.32	-89.89	-37.88	-1,020.45	1,047.12	982.45	64.67	16.193			
8,000.00	6,944.16	6,939.34	6,897.92	46.46	30.32	-89.88	-37.88	-1,020.45	969.60	903.13	66.47	14.587			
8,100.00	6,943.08	6,939.20	6,897.77	48.47	30.32	-89.86	-37.88	-1,020.45	896.54	827.74	68.79	13.032			
8,200.00	6,942.01	6,939.05	6,897.63	50.55	30.32	-89.85	-37.88	-1,020.45	829.12	757.42	71.70	11.564			
8,300.00	6,940.93	6,938.90	6,897.48	52.71	30.31	-89.84	-37.87	-1,020.45	768.84	693.64	75.20	10.224			
8,400.00	6,939.85	6,938.76	6,897.33	54.93	30.31	-89.83	-37.87	-1,020.44	717.48	638.27	79.20	9.059			
8,500.00	6,938.77	6,938.61	6,897.18	57.20	30.31	-89.81	-37.87	-1,020.44	677.08	593.58	83.50	8.109			
8,600.00	6,937.69	6,938.45	6,897.03	59.53	30.31	-89.80	-37.87	-1,020.44	649.69	562.00	87.69	7.409			
8,700.00	6,936.61	6,938.30	6,896.88	61.89	30.31	-89.78	-37.87	-1,020.44	637.00	545.68	91.32	6.976			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 16-MWD													Boomerang 21-5 - WIEDEMAN #18-5 - OH - OH		Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
8,731.68	6,936.27	6,938.25	6,896.83	62.66	30.31	-89.78	-37.87	-1,020.44	636.21	543.93	92.27	6.895 CC, ES				
8,800.00	6,935.54	6,938.15	6,896.72	64.30	30.31	-89.77	-37.87	-1,020.44	639.86	545.93	93.94	6.812 SF				
8,900.00	6,934.46	6,937.99	6,896.57	66.74	30.31	-89.76	-37.87	-1,020.44	658.10	562.75	95.35	6.902				
9,000.00	6,933.38	6,937.83	6,896.41	69.21	30.31	-89.74	-37.87	-1,020.44	690.47	594.85	95.62	7.221				
9,100.00	6,932.30	6,937.68	6,896.25	71.71	30.31	-89.73	-37.87	-1,020.43	735.13	640.12	95.01	7.738				
9,200.00	6,931.22	6,937.51	6,896.09	74.23	30.31	-89.71	-37.87	-1,020.43	789.99	696.17	93.82	8.420				
9,300.00	6,930.14	6,937.35	6,895.93	76.78	30.31	-89.70	-37.87	-1,020.43	853.08	760.75	92.33	9.240				
9,400.00	6,929.06	6,937.19	6,895.77	79.34	30.31	-89.68	-37.87	-1,020.43	922.72	831.99	90.72	10.171				
9,500.00	6,927.99	6,937.02	6,895.60	81.93	30.31	-89.67	-37.87	-1,020.43	997.53	908.40	89.13	11.192				
9,600.00	6,926.91	6,936.86	6,895.43	84.53	30.31	-89.65	-37.87	-1,020.43	1,076.44	988.83	87.62	12.286				
9,700.00	6,925.83	6,936.69	6,895.26	87.14	30.31	-89.64	-37.87	-1,020.43	1,158.62	1,072.41	86.21	13.439				
9,800.00	6,924.75	6,936.52	6,895.09	89.77	30.30	-89.62	-37.87	-1,020.42	1,243.41	1,158.48	84.92	14.641				
9,900.00	6,923.67	6,936.34	6,894.92	92.41	30.30	-89.61	-37.86	-1,020.42	1,330.31	1,246.55	83.76	15.883				
10,000.00	6,922.59	6,936.17	6,894.75	95.07	30.30	-89.59	-37.86	-1,020.42	1,418.94	1,336.23	82.71	17.156				
10,100.00	6,921.51	6,935.99	6,894.57	97.73	30.30	-89.58	-37.86	-1,020.42	1,508.99	1,427.23	81.76	18.457				
10,200.00	6,920.44	6,935.82	6,894.39	100.40	30.30	-89.56	-37.86	-1,020.42	1,600.22	1,519.32	80.90	19.780				
10,300.00	6,919.36	6,935.64	6,894.21	103.08	30.30	-89.54	-37.86	-1,020.42	1,692.44	1,612.31	80.13	21.121				
10,400.00	6,918.28	6,935.46	6,894.03	105.77	30.30	-89.53	-37.86	-1,020.41	1,785.51	1,706.07	79.44	22.477				
10,500.00	6,917.20	6,935.27	6,893.85	108.47	30.30	-89.51	-37.86	-1,020.41	1,879.28	1,800.47	78.81	23.847				
10,600.00	6,916.12	6,935.09	6,893.66	111.18	30.30	-89.49	-37.86	-1,020.41	1,973.67	1,895.43	78.24	25.227				
10,700.00	6,915.04	6,934.90	6,893.48	113.89	30.30	-89.48	-37.86	-1,020.41	2,068.58	1,990.86	77.72	26.616				
10,800.00	6,913.96	6,934.71	6,893.29	116.61	30.30	-89.46	-37.86	-1,020.41	2,163.95	2,086.70	77.25	28.013				
10,900.00	6,912.89	6,934.52	6,893.09	119.33	30.30	-89.44	-37.86	-1,020.41	2,259.72	2,182.90	76.82	29.416				
11,000.00	6,911.81	6,934.32	6,892.90	122.06	30.30	-89.43	-37.86	-1,020.40	2,355.84	2,279.42	76.43	30.825				
11,100.00	6,910.73	6,934.13	6,892.70	124.79	30.29	-89.41	-37.86	-1,020.40	2,452.28	2,376.21	76.07	32.238				
11,200.00	6,909.65	6,933.93	6,892.51	127.53	30.29	-89.39	-37.86	-1,020.40	2,548.99	2,473.25	75.74	33.654				
11,300.00	6,908.57	6,933.73	6,892.31	130.27	30.29	-89.37	-37.86	-1,020.40	2,645.94	2,570.50	75.44	35.074				
11,400.00	6,907.49	6,933.53	6,892.10	133.02	30.29	-89.35	-37.85	-1,020.40	2,743.11	2,667.95	75.16	36.496				
11,500.00	6,906.41	6,933.32	6,891.90	135.77	30.29	-89.34	-37.85	-1,020.40	2,840.48	2,765.57	74.91	37.919				
11,600.00	6,905.34	6,933.12	6,891.69	138.52	30.29	-89.32	-37.85	-1,020.39	2,938.02	2,863.35	74.67	39.344				
11,700.00	6,904.26	6,932.91	6,891.48	141.28	30.29	-89.30	-37.85	-1,020.39	3,035.73	2,961.27	74.46	40.770				
11,800.00	6,903.18	6,932.69	6,891.27	144.04	30.29	-89.28	-37.85	-1,020.39	3,133.58	3,059.31	74.26	42.197				
11,900.00	6,902.10	6,932.48	6,891.06	146.80	30.29	-89.26	-37.85	-1,020.39	3,231.56	3,157.48	74.08	43.624				
12,000.00	6,901.02	6,932.26	6,890.84	149.57	30.29	-89.24	-37.85	-1,020.39	3,329.66	3,255.75	73.91	45.051				
12,100.00	6,899.94	6,932.04	6,890.62	152.34	30.29	-89.22	-37.85	-1,020.39	3,427.87	3,354.11	73.75	46.478				
12,200.00	6,898.87	6,931.82	6,890.40	155.11	30.28	-89.20	-37.85	-1,020.38	3,526.18	3,452.57	73.61	47.904				
12,300.00	6,897.79	6,931.60	6,890.17	157.89	30.28	-89.18	-37.85	-1,020.38	3,624.58	3,551.11	73.48	49.330				
12,400.00	6,896.71	6,931.37	6,889.95	160.66	30.28	-89.16	-37.85	-1,020.38	3,723.07	3,649.72	73.35	50.754				
12,500.00	6,895.63	6,931.14	6,889.72	163.44	30.28	-89.14	-37.85	-1,020.38	3,821.64	3,748.40	73.24	52.178				
12,600.00	6,894.55	6,930.91	6,889.48	166.22	30.28	-89.12	-37.85	-1,020.38	3,920.28	3,847.14	73.14	53.601				
12,700.00	6,893.47	6,930.67	6,889.25	169.00	30.28	-89.10	-37.85	-1,020.37	4,018.99	3,945.94	73.04	55.022				
12,800.00	6,892.39	6,930.43	6,889.01	171.79	30.28	-89.08	-37.85	-1,020.37	4,117.75	4,044.80	72.96	56.441				
12,900.00	6,891.32	6,930.19	6,888.77	174.57	30.28	-89.05	-37.84	-1,020.37	4,216.58	4,143.71	72.88	57.859				
13,000.00	6,890.24	6,929.95	6,888.52	177.36	30.28	-89.03	-37.84	-1,020.37	4,315.46	4,242.66	72.80	59.275				
13,100.00	6,889.16	6,929.70	6,888.28	180.15	30.28	-89.01	-37.84	-1,020.37	4,414.39	4,341.66	72.74	60.690				
13,200.00	6,888.08	6,929.45	6,888.02	182.94	30.28	-88.99	-37.84	-1,020.36	4,513.37	4,440.70	72.68	62.102				
13,300.00	6,887.00	6,929.19	6,887.77	185.74	30.27	-88.96	-37.84	-1,020.36	4,612.40	4,539.77	72.62	63.512				
13,400.00	6,885.92	6,928.94	6,887.51	188.53	30.27	-88.94	-37.84	-1,020.36	4,711.46	4,638.89	72.57	64.920				
13,500.00	6,884.84	6,928.68	6,887.25	191.32	30.27	-88.92	-37.84	-1,020.36	4,810.56	4,738.03	72.53	66.326				
13,600.00	6,883.77	6,928.41	6,886.99	194.12	30.27	-88.89	-37.84	-1,020.35	4,909.70	4,837.21	72.49	67.729				
13,700.00	6,882.69	6,928.15	6,886.72	196.92	30.27	-88.87	-37.84	-1,020.35	5,008.88	4,936.42	72.46	69.130				
13,800.00	6,881.61	6,927.88	6,886.45	199.72	30.27	-88.85	-37.84	-1,020.35	5,108.08	5,035.66	72.43	70.529				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #18-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
13,900.00	6,880.53	6,927.60	6,886.18	202.52	30.27	-88.82	-37.84	-1,020.35	5,207.32	5,134.92	72.40	71.925			
14,000.00	6,879.45	6,927.32	6,885.90	205.32	30.27	-88.80	-37.84	-1,020.35	5,306.58	5,234.20	72.38	73.318			
14,100.00	6,878.37	6,927.04	6,885.62	208.12	30.27	-88.77	-37.84	-1,020.34	5,405.87	5,333.51	72.36	74.708			
14,200.00	6,877.29	6,926.76	6,885.33	210.92	30.26	-88.74	-37.84	-1,020.34	5,505.19	5,432.85	72.35	76.096			
14,300.00	6,876.22	6,926.47	6,885.05	213.73	30.26	-88.72	-37.84	-1,020.34	5,604.53	5,532.20	72.33	77.481			
14,400.00	6,875.14	6,926.18	6,884.75	216.53	30.26	-88.69	-37.84	-1,020.34	5,703.90	5,631.57	72.33	78.863			
14,500.00	6,874.06	6,925.88	6,884.46	219.34	30.26	-88.67	-37.84	-1,020.33	5,803.28	5,730.96	72.32	80.242			
14,600.00	6,872.98	6,925.58	6,884.16	222.15	30.26	-88.64	-37.83	-1,020.33	5,902.69	5,830.37	72.32	81.617			
14,700.00	6,871.90	6,925.27	6,883.85	224.95	30.26	-88.61	-37.83	-1,020.33	6,002.12	5,929.80	72.32	82.990			
14,800.00	6,870.82	6,924.96	6,883.54	227.76	30.26	-88.58	-37.83	-1,020.33	6,101.56	6,029.24	72.33	84.360			
14,900.00	6,869.75	6,924.65	6,883.23	230.57	30.26	-88.56	-37.83	-1,020.32	6,201.03	6,128.69	72.34	85.726			
15,000.00	6,868.67	6,924.33	6,882.91	233.38	30.25	-88.53	-37.83	-1,020.32	6,300.51	6,228.16	72.34	87.090			
15,100.00	6,867.59	6,924.01	6,882.59	236.19	30.25	-88.50	-37.83	-1,020.32	6,400.00	6,327.65	72.36	88.450			
15,200.00	6,866.51	6,923.68	6,882.26	239.00	30.25	-88.47	-37.83	-1,020.32	6,499.52	6,427.14	72.37	89.807			
15,300.00	6,865.43	6,923.35	6,881.93	241.81	30.25	-88.44	-37.83	-1,020.31	6,599.04	6,526.65	72.39	91.160			
15,400.00	6,864.35	6,923.01	6,881.59	244.63	30.25	-88.41	-37.83	-1,020.31	6,698.58	6,626.17	72.41	92.510			
15,500.00	6,863.27	6,922.67	6,881.25	247.44	30.25	-88.38	-37.83	-1,020.31	6,798.14	6,725.71	72.43	93.857			
15,600.00	6,862.20	6,922.33	6,880.90	250.25	30.25	-88.35	-37.83	-1,020.30	6,897.71	6,825.25	72.46	95.200			
15,618.10	6,862.00	6,922.26	6,880.84	250.76	30.25	-88.34	-37.83	-1,020.30	6,915.72	6,843.26	72.46	95.442			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 16-MWD													Boomerang 21-5 - WIEDEMAN #22-5 - OH - OH		Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
0.00	0.00	0.00	0.00	3.28	3.28	-77.15	212.41	-931.15	955.79							
100.00	100.00	57.70	57.70	3.28	3.29	-77.15	212.43	-931.27	955.20	948.63	6.57	145.337				
200.00	200.00	146.42	146.41	3.34	3.34	-77.15	212.58	-932.27	956.35	949.67	6.68	143.251				
300.00	299.98	270.99	270.97	3.44	3.47	-129.15	212.28	-933.28	958.25	951.33	6.92	138.534				
400.00	399.84	443.41	443.18	3.61	3.78	-129.75	208.19	-926.87	957.77	950.35	7.43	128.985				
500.00	499.45	596.31	595.00	3.81	4.17	-130.77	199.42	-911.21	952.12	944.05	8.07	118.054				
600.00	598.70	753.92	750.00	4.06	4.72	-132.34	185.36	-886.55	942.91	934.05	8.86	106.461				
700.00	697.47	857.10	850.69	4.35	5.16	-133.68	174.19	-866.98	932.79	923.32	9.47	98.527				
800.00	795.62	969.40	960.23	4.66	5.69	-135.29	162.11	-845.41	925.38	915.19	10.19	90.774				
900.00	893.06	1,091.32	1,078.36	5.01	6.35	-137.23	148.44	-818.53	917.99	906.96	11.03	83.226				
961.44	952.51	1,145.57	1,130.87	5.25	6.65	-138.14	142.82	-806.11	914.66	903.19	11.47	79.756				
1,000.00	989.71	1,188.26	1,172.22	5.40	6.90	-138.82	138.63	-796.37	913.06	901.27	11.80	77.408				
1,100.00	1,086.20	1,293.34	1,273.56	5.81	7.54	-140.59	127.08	-771.11	908.09	895.43	12.65	71.767				
1,200.00	1,182.69	1,391.48	1,368.06	6.24	8.17	-142.36	114.69	-747.69	904.04	890.51	13.53	66.821				
1,300.00	1,279.18	1,475.24	1,448.55	6.69	8.71	-143.95	103.02	-727.66	900.85	886.47	14.38	62.637				
1,356.10	1,333.30	1,517.77	1,489.52	6.95	9.00	-144.78	96.65	-718.19	900.38	885.53	14.85	60.612 CC				
1,400.00	1,375.67	1,555.84	1,526.18	7.15	9.25	-145.55	90.52	-710.00	900.57	885.31	15.26	59.009 ES				
1,500.00	1,472.15	1,638.33	1,605.41	7.62	9.80	-147.34	75.30	-692.81	902.58	886.38	16.20	55.717				
1,600.00	1,568.64	1,718.07	1,681.57	8.10	10.35	-149.24	57.55	-677.29	907.44	890.27	17.17	52.841				
1,700.00	1,665.13	1,800.63	1,759.98	8.59	10.93	-151.32	36.80	-661.89	914.93	896.72	18.21	50.231				
1,800.00	1,761.62	1,882.22	1,837.09	9.08	11.52	-153.44	14.44	-647.39	925.26	905.97	19.29	47.962				
1,900.00	1,858.11	1,976.15	1,924.97	9.58	12.24	-156.00	-13.97	-630.27	937.56	917.03	20.53	45.668				
2,000.00	1,954.60	2,062.02	2,004.10	10.08	12.94	-158.47	-43.00	-613.86	951.90	930.14	21.76	43.738				
2,100.00	2,051.09	2,146.57	2,081.05	10.59	13.67	-160.98	-73.91	-597.36	968.87	945.83	23.03	42.065				
2,200.00	2,147.57	2,246.17	2,171.43	11.09	14.56	-163.87	-110.42	-576.92	987.37	962.88	24.49	40.309				
2,300.00	2,244.06	2,336.52	2,253.73	11.61	15.38	-166.36	-142.69	-558.32	1,007.83	981.98	25.85	38.983				
2,400.00	2,340.55	2,430.27	2,339.37	12.12	16.23	-168.82	-175.00	-538.04	1,028.98	1,001.74	27.24	37.770				
2,500.00	2,437.04	2,497.56	2,401.02	12.64	16.84	-170.52	-198.31	-524.48	1,053.24	1,024.94	28.30	37.220				
2,600.00	2,533.53	2,588.46	2,484.57	13.15	17.66	-172.69	-229.52	-506.88	1,079.69	1,050.07	29.62	36.451				
2,700.00	2,630.02	2,667.12	2,556.11	13.67	18.40	-174.59	-258.01	-490.88	1,107.88	1,077.09	30.80	35.974				
2,800.00	2,726.50	2,730.07	2,612.25	14.19	19.04	-176.17	-283.14	-477.50	1,138.90	1,107.13	31.78	35.841				
2,900.00	2,822.99	2,799.56	2,673.15	14.72	19.77	-177.96	-313.10	-462.54	1,173.08	1,140.24	32.84	35.724				
3,000.00	2,919.48	2,895.42	2,757.19	15.24	20.77	-179.70	-354.43	-442.20	1,209.27	1,174.99	34.28	35.273				
3,100.00	3,015.97	2,982.59	2,835.23	15.76	21.66	-177.81	-389.05	-424.57	1,245.62	1,210.07	35.55	35.038				
3,200.00	3,112.46	3,051.12	2,896.54	16.29	22.35	-176.40	-416.56	-411.12	1,283.87	1,247.36	36.50	35.173				
3,300.00	3,208.95	3,123.58	2,961.10	16.81	23.09	-174.96	-446.51	-397.55	1,324.44	1,286.95	37.49	35.327				
3,400.00	3,305.44	3,260.12	3,084.36	17.34	24.43	-172.54	-499.40	-372.09	1,364.49	1,325.06	39.44	34.599				
3,500.00	3,401.92	3,377.11	3,191.53	17.87	25.55	-170.71	-540.53	-349.51	1,402.64	1,361.62	41.03	34.186				
3,600.00	3,498.41	3,444.62	3,253.43	18.40	26.19	-169.72	-564.10	-336.48	1,441.35	1,399.45	41.89	34.405				
3,700.00	3,594.90	3,561.29	3,361.24	18.93	27.27	-168.17	-603.33	-315.23	1,480.45	1,437.02	43.43	34.088				
3,800.00	3,691.39	3,633.68	3,428.10	19.46	27.94	-167.25	-627.47	-301.59	1,519.53	1,475.19	44.34	34.270				
3,900.00	3,787.88	3,692.49	3,482.09	19.99	28.50	-166.51	-648.02	-290.59	1,560.35	1,515.30	45.05	34.637				
4,000.00	3,884.37	3,772.93	3,555.58	20.52	29.27	-165.52	-677.35	-276.13	1,603.09	1,557.03	46.06	34.807				
4,100.00	3,980.85	3,879.41	3,653.96	21.05	30.25	-164.36	-713.87	-258.09	1,645.20	1,597.77	47.43	34.686				
4,200.00	4,077.34	3,943.87	3,713.44	21.58	30.86	-163.68	-736.09	-246.96	1,687.79	1,639.60	48.19	35.022				
4,300.00	4,173.83	3,999.00	3,763.64	22.11	31.39	-163.08	-756.66	-237.20	1,732.50	1,683.69	48.80	35.501				
4,390.25	4,260.91	4,055.95	3,815.01	22.59	31.97	-162.44	-779.00	-226.88	1,774.33	1,724.85	49.47	35.866				
4,400.00	4,270.32	4,062.97	3,821.32	22.64	32.04	-162.40	-781.78	-225.59	1,778.88	1,729.32	49.56	35.896				
4,500.00	4,367.33	4,136.04	3,886.87	23.16	32.79	-161.90	-811.12	-212.12	1,824.52	1,774.08	50.44	36.174				
4,600.00	4,465.13	4,200.00	3,984.35	23.65	33.65	-160.99	-854.84	-191.08	1,867.22	1,812.00	51.22	33.813				
4,700.00	4,563.60	4,350.91	4,079.45	24.12	35.03	-160.12	-896.24	-169.37	1,905.96	1,852.71	52.25	35.795				
4,800.00	4,662.61	4,440.88	4,160.18	24.56	35.97	-159.42	-931.40	-150.87	1,942.25	1,887.92	53.33	35.748				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - WIEDEMAN #22-5 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 16-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	4,506.89	4,219.02	24.98	36.68	158.94	-957.79	-136.76	1,976.43	1,921.42	55.01	35.927		
5,000.00	4,861.80	4,594.01	4,296.55	25.38	37.62	158.23	-993.14	-118.70	2,008.87	1,952.87	56.00	35.875		
5,100.00	4,961.73	4,667.07	4,361.70	25.76	38.41	157.67	-1,022.66	-103.73	2,038.79	1,982.06	56.72	35.942		
5,151.69	5,013.42	4,698.27	4,389.27	25.95	38.75	-150.67	-1,035.67	-97.13	2,053.73	1,996.75	56.98	36.046		
5,200.00	5,061.73	4,765.37	4,448.39	26.13	39.49	-151.43	-1,063.84	-82.52	2,067.54	2,009.71	57.83	35.750		
5,300.00	5,161.73	4,949.72	4,613.73	26.49	41.45	-153.39	-1,134.38	-41.78	2,092.60	2,032.35	60.25	34.731		
5,400.00	5,261.73	5,027.08	4,683.90	26.86	42.24	-154.16	-1,162.52	-25.39	2,117.49	2,056.50	60.98	34.722		
5,500.00	5,361.73	5,091.45	4,742.43	27.23	42.89	-154.76	-1,186.16	-12.82	2,143.76	2,082.25	61.51	34.850		
5,600.00	5,461.73	5,157.00	4,801.51	27.60	43.57	-155.38	-1,211.44	0.14	2,171.95	2,109.91	62.04	35.006		
5,700.00	5,561.73	5,583.81	5,200.96	27.97	47.25	-158.50	-1,340.35	71.03	2,195.50	2,128.43	67.07	32.734		
5,800.00	5,661.73	5,728.47	5,342.17	28.35	48.14	-159.14	-1,367.42	86.93	2,209.13	2,140.85	68.29	32.352		
5,900.00	5,761.73	5,856.32	5,467.94	28.72	48.84	-159.58	-1,387.89	97.19	2,221.42	2,152.13	69.29	32.059		
6,000.00	5,861.73	6,086.07	5,696.07	29.10	49.82	-160.08	-1,412.01	108.73	2,228.90	2,158.08	70.82	31.471		
6,100.00	5,961.73	6,277.15	5,886.84	29.48	50.43	-160.27	-1,421.02	113.67	2,232.31	2,160.42	71.89	31.051		
6,200.00	6,061.73	6,414.26	6,023.93	29.86	50.77	-160.31	-1,422.46	114.47	2,233.08	2,160.42	72.66	30.735		
6,300.00	6,161.73	6,544.00	6,153.65	30.25	51.02	-160.26	-1,421.03	113.06	2,232.40	2,159.06	73.35	30.437		
6,400.00	6,261.73	6,662.61	6,272.19	30.63	51.22	-160.16	-1,417.83	110.27	2,230.65	2,156.65	74.00	30.145		
6,451.69	6,313.42	6,707.81	6,317.34	30.83	51.29	-160.12	-1,416.34	108.87	2,229.59	2,155.29	74.31	30.006		
6,500.00	6,361.68	6,747.18	6,356.67	31.01	51.35	-67.77	-1,415.16	107.49	2,228.11	2,153.54	74.57	29.880		
6,550.00	6,411.34	6,780.96	6,390.42	31.20	51.41	-68.06	-1,414.30	106.26	2,225.36	2,150.57	74.79	29.753		
6,600.00	6,460.39	6,810.48	6,419.92	31.38	51.47	-68.48	-1,413.91	105.43	2,221.60	2,146.62	74.98	29.629		
6,650.00	6,508.54	6,839.41	6,448.85	31.58	51.53	-69.06	-1,413.90	104.88	2,216.87	2,141.74	75.13	29.506		
6,700.00	6,555.48	6,888.68	6,498.11	31.78	51.63	-69.96	-1,414.31	104.26	2,211.14	2,135.82	75.32	29.358		
6,750.00	6,600.93	6,955.79	6,565.21	31.98	51.78	-71.25	-1,414.23	103.14	2,203.85	2,128.32	75.53	29.179		
6,800.00	6,644.61	6,977.44	6,586.86	32.20	51.82	-72.22	-1,414.30	102.76	2,195.59	2,119.98	75.61	29.039		
6,850.00	6,686.25	7,004.89	6,614.31	32.44	51.88	-73.38	-1,414.52	102.28	2,186.69	2,111.00	75.69	28.891		
6,900.00	6,725.58	7,030.00	6,639.41	32.68	51.94	-74.60	-1,414.89	101.86	2,177.29	2,101.54	75.75	28.742		
6,950.00	6,762.38	7,056.86	6,666.26	32.96	52.02	-75.93	-1,415.48	101.52	2,167.51	2,091.68	75.83	28.584		
7,000.00	6,796.41	7,080.56	6,689.95	33.25	52.08	-77.29	-1,416.17	101.39	2,157.50	2,081.59	75.90	28.425		
7,050.00	6,827.46	7,101.89	6,711.26	33.58	52.14	-78.64	-1,416.93	101.41	2,147.40	2,071.42	75.98	28.263		
7,100.00	6,855.34	7,121.00	6,730.36	33.93	52.19	-79.97	-1,417.73	101.53	2,137.40	2,061.33	76.07	28.098		
7,150.00	6,879.88	7,163.72	6,773.04	34.33	52.32	-81.89	-1,419.37	101.63	2,127.48	2,051.21	76.27	27.894		
7,200.00	6,900.93	7,202.96	6,812.26	34.76	52.43	-83.75	-1,420.44	101.19	2,117.70	2,041.21	76.49	27.686		
7,250.00	6,918.36	7,232.29	6,841.58	35.23	52.50	-85.35	-1,420.97	100.58	2,108.30	2,031.60	76.70	27.488		
7,300.00	6,932.05	7,255.48	6,864.77	35.74	52.55	-86.77	-1,421.28	99.99	2,099.53	2,022.60	76.92	27.294		
7,350.00	6,941.94	7,273.27	6,882.55	36.29	52.59	-87.97	-1,421.44	99.47	2,091.56	2,014.40	77.16	27.105		
7,400.00	6,947.94	7,285.34	6,894.61	36.87	52.62	-88.94	-1,421.51	99.09	2,084.56	2,007.14	77.42	26.925		
7,450.00	6,950.04	7,291.40	6,900.67	37.47	52.63	-89.64	-1,421.54	98.89	2,078.63	2,000.95	77.69	26.757		
7,458.56	6,950.00	7,291.81	6,901.08	37.58	52.63	-89.73	-1,421.54	98.87	2,077.74	2,000.00	77.73	26.730		
7,500.00	6,949.56	7,293.39	6,902.65	38.11	52.63	-89.78	-1,421.55	98.82	2,073.87	1,995.90	77.97	26.598		
7,600.00	6,948.48	7,297.34	6,906.60	39.51	52.64	-89.89	-1,421.56	98.69	2,067.94	1,989.27	78.67	26.287		
7,673.14	6,947.69	7,305.61	6,914.87	40.64	52.66	-90.12	-1,421.57	98.39	2,066.65	1,987.36	79.29	26.065		
7,700.00	6,947.40	7,309.72	6,918.98	41.06	52.67	-90.23	-1,421.56	98.23	2,066.82	1,987.31	79.51	25.993		
7,800.00	6,946.32	7,328.97	6,938.21	42.74	52.70	-90.76	-1,421.45	97.44	2,070.52	1,990.04	80.48	25.728		
7,900.00	6,945.24	7,358.04	6,967.24	44.55	52.76	-91.57	-1,421.02	96.02	2,078.99	1,997.46	81.52	25.501		
8,000.00	6,944.16	8,000.00	6,957.17	46.46	53.95	-91.29	-1,420.83	96.24	2,091.77	2,007.26	84.51	24.752		
8,100.00	6,943.08	7,387.00	6,996.14	48.47	52.81	-92.37	-1,420.26	94.35	2,109.92	2,026.11	83.82	25.173		
8,200.00	6,942.01	7,387.00	6,996.14	50.55	52.81	-92.37	-1,420.26	94.35	2,132.26	2,047.21	85.05	25.070		
8,300.00	6,940.93	7,387.00	6,996.14	52.71	52.81	-92.37	-1,420.26	94.35	2,159.00	2,072.68	86.32	25.011		
8,400.00	6,939.85	7,387.00	6,996.14	54.93	52.81	-92.37	-1,420.26	94.35	2,189.98	2,102.37	87.61	24.996		
8,500.00	6,938.77	7,387.00	6,996.14	57.20	52.81	-92.37	-1,420.26	94.35	2,225.04	2,136.12	88.92	25.024		
8,600.00	6,937.69	7,387.00	6,996.14	59.53	52.81	-92.37	-1,420.26	94.35	2,263.96	2,173.75	90.22	25.095		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	6,936.61	7,387.00	6,996.14	61.89	52.81	-92.37	-1,420.26	94.35	2,306.57	2,215.07	91.51	25.207		
8,800.00	6,935.54	8,800.00	6,986.77	64.30	55.46	-92.11	-1,420.40	94.80	2,352.65	2,255.32	97.33	24.172 SF		
8,900.00	6,934.46	7,407.73	7,016.83	66.74	52.85	-92.94	-1,419.65	93.20	2,401.84	2,307.85	93.99	25.555		
9,000.00	6,933.38	7,409.31	7,018.41	69.21	52.85	-92.99	-1,419.60	93.12	2,454.26	2,359.06	95.19	25.782		
9,100.00	6,932.30	7,410.80	7,019.90	71.71	52.85	-93.03	-1,419.56	93.05	2,509.57	2,413.21	96.36	26.043		
9,200.00	6,931.22	7,412.21	7,021.31	74.23	52.86	-93.07	-1,419.52	92.99	2,567.58	2,470.09	97.49	26.337		
9,300.00	6,930.14	7,413.55	7,022.65	76.78	52.86	-93.11	-1,419.49	92.93	2,628.12	2,529.55	98.57	26.663		
9,400.00	6,929.06	7,414.83	7,023.92	79.34	52.86	-93.14	-1,419.46	92.87	2,691.01	2,591.41	99.60	27.018		
9,500.00	6,927.99	7,416.04	7,025.12	81.93	52.86	-93.17	-1,419.42	92.82	2,756.10	2,655.51	100.58	27.401		
9,600.00	6,926.91	7,417.19	7,026.27	84.53	52.87	-93.21	-1,419.39	92.77	2,823.22	2,721.71	101.52	27.811		
9,700.00	6,925.83	7,418.28	7,027.37	87.14	52.87	-93.24	-1,419.37	92.72	2,892.25	2,789.85	102.40	28.245		
9,800.00	6,924.75	7,419.33	7,028.42	89.77	52.87	-93.27	-1,419.34	92.68	2,963.04	2,859.80	103.23	28.702		
9,900.00	6,923.67	7,420.33	7,029.42	92.41	52.87	-93.29	-1,419.31	92.64	3,035.47	2,931.45	104.02	29.181		
10,000.00	6,922.59	7,421.29	7,030.37	95.07	52.87	-93.32	-1,419.29	92.60	3,109.43	3,004.66	104.77	29.680		
10,100.00	6,921.51	7,422.21	7,031.29	97.73	52.88	-93.35	-1,419.27	92.57	3,184.81	3,079.35	105.47	30.197		
10,200.00	6,920.44	7,423.08	7,032.16	100.40	52.88	-93.37	-1,419.24	92.53	3,261.52	3,155.40	106.12	30.733		
10,300.00	6,919.36	7,423.92	7,033.00	103.08	52.88	-93.39	-1,419.22	92.50	3,339.46	3,232.72	106.74	31.285		
10,400.00	6,918.28	7,424.73	7,033.81	105.77	52.88	-93.42	-1,419.20	92.47	3,418.55	3,311.22	107.33	31.852		
10,500.00	6,917.20	7,425.51	7,034.59	108.47	52.88	-93.44	-1,419.19	92.44	3,498.70	3,390.83	107.87	32.433		
10,600.00	6,916.12	7,426.25	7,035.33	111.18	52.88	-93.46	-1,419.17	92.41	3,579.86	3,471.47	108.39	33.028		
10,700.00	6,915.04	7,426.97	7,036.05	113.89	52.88	-93.48	-1,419.15	92.39	3,661.94	3,553.07	108.87	33.635		
10,800.00	6,913.96	7,427.66	7,036.74	116.61	52.89	-93.50	-1,419.13	92.36	3,744.90	3,635.58	109.33	34.254		
10,900.00	6,912.89	7,428.33	7,037.40	119.33	52.89	-93.51	-1,419.12	92.34	3,828.67	3,718.92	109.75	34.884		
11,000.00	6,911.81	7,428.97	7,038.04	122.06	52.89	-93.53	-1,419.10	92.32	3,913.21	3,803.05	110.16	35.524		
11,100.00	6,910.73	7,429.59	7,038.66	124.79	52.89	-93.55	-1,419.09	92.30	3,998.45	3,887.92	110.54	36.173		
11,200.00	6,909.65	7,430.19	7,039.26	127.53	52.89	-93.57	-1,419.07	92.28	4,084.37	3,973.47	110.89	36.831		
11,300.00	6,908.57	7,430.76	7,039.84	130.27	52.89	-93.58	-1,419.06	92.26	4,170.91	4,059.68	111.23	37.497		
11,400.00	6,907.49	7,431.32	7,040.39	133.02	52.89	-93.60	-1,419.05	92.24	4,258.05	4,146.49	111.55	38.171		
11,500.00	6,906.41	7,431.86	7,040.93	135.77	52.89	-93.61	-1,419.03	92.22	4,345.73	4,233.88	111.85	38.853		
11,600.00	6,905.34	7,432.38	7,041.46	138.52	52.89	-93.63	-1,419.02	92.20	4,433.94	4,321.80	112.14	39.540		
11,700.00	6,904.26	7,432.89	7,041.96	141.28	52.90	-93.64	-1,419.01	92.19	4,522.64	4,410.23	112.41	40.235		
11,800.00	6,903.18	7,433.38	7,042.45	144.04	52.90	-93.65	-1,419.00	92.17	4,611.80	4,499.14	112.66	40.935		
11,900.00	6,902.10	7,433.85	7,042.92	146.80	52.90	-93.67	-1,418.99	92.16	4,701.39	4,588.49	112.90	41.641		
12,000.00	6,901.02	7,434.31	7,043.38	149.57	52.90	-93.68	-1,418.98	92.14	4,791.40	4,678.27	113.13	42.352		
12,100.00	6,899.94	7,434.76	7,043.83	152.34	52.90	-93.69	-1,418.97	92.13	4,881.80	4,768.44	113.35	43.067		
12,200.00	6,898.87	7,435.19	7,044.26	155.11	52.90	-93.70	-1,418.96	92.11	4,972.56	4,859.00	113.56	43.788		
12,300.00	6,897.79	7,435.61	7,044.68	157.89	52.90	-93.72	-1,418.95	92.10	5,063.67	4,949.91	113.76	44.512		
12,400.00	6,896.71	7,436.02	7,045.09	160.66	52.90	-93.73	-1,418.94	92.09	5,155.11	5,041.17	113.95	45.241		
12,500.00	6,895.63	7,436.42	7,045.49	163.44	52.90	-93.74	-1,418.93	92.08	5,246.87	5,132.74	114.13	45.974		
12,600.00	6,894.55	7,436.80	7,045.87	166.22	52.90	-93.75	-1,418.92	92.07	5,338.92	5,224.62	114.30	46.710		
12,700.00	6,893.47	7,437.18	7,046.25	169.00	52.90	-93.76	-1,418.92	92.05	5,431.25	5,316.78	114.47	47.449		
12,800.00	6,892.39	7,437.54	7,046.61	171.79	52.90	-93.77	-1,418.91	92.04	5,523.84	5,409.22	114.62	48.191		
12,900.00	6,891.32	7,437.90	7,046.97	174.57	52.90	-93.78	-1,418.90	92.03	5,616.70	5,501.92	114.77	48.937		
13,000.00	6,890.24	7,438.24	7,047.31	177.36	52.91	-93.79	-1,418.89	92.02	5,709.79	5,594.87	114.92	49.685		
13,100.00	6,889.16	7,438.58	7,047.65	180.15	52.91	-93.80	-1,418.88	92.01	5,803.11	5,688.05	115.06	50.435		
13,200.00	6,888.08	7,438.91	7,047.98	182.94	52.91	-93.81	-1,418.88	92.01	5,896.65	5,781.46	115.19	51.188		
13,300.00	6,887.00	7,439.23	7,048.29	185.74	52.91	-93.82	-1,418.87	92.00	5,990.40	5,875.08	115.32	51.944		
13,400.00	6,885.92	7,439.54	7,048.61	188.53	52.91	-93.83	-1,418.86	91.99	6,084.35	5,968.90	115.45	52.701		
13,500.00	6,884.84	7,439.84	7,048.91	191.32	52.91	-93.83	-1,418.86	91.98	6,178.49	6,062.92	115.57	53.461		
13,600.00	6,883.77	7,440.14	7,049.21	194.12	52.91	-93.84	-1,418.85	91.97	6,272.81	6,157.12	115.69	54.222		
13,700.00	6,882.69	7,474.00	7,083.06	196.92	52.97	-94.78	-1,418.24	91.43	6,367.77	6,251.96	115.81	54.984		
13,800.00	6,881.61	7,474.00	7,083.06	199.72	52.97	-94.78	-1,418.24	91.43	6,462.42	6,346.50	115.92	55.748		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #22-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
13,900.00	6,880.53	7,474.00	7,083.06	202.52	52.97	-94.78	-1,418.24	91.43	6,557.23	6,441.20	116.03	56.514			
14,000.00	6,879.45	7,474.00	7,083.06	205.32	52.97	-94.78	-1,418.24	91.43	6,652.19	6,536.06	116.13	57.281			
14,100.00	6,878.37	7,474.00	7,083.06	208.12	52.97	-94.78	-1,418.24	91.43	6,747.30	6,631.07	116.23	58.049			
14,200.00	6,877.29	7,474.00	7,083.06	210.92	52.97	-94.78	-1,418.24	91.43	6,842.54	6,726.21	116.33	58.819			
14,300.00	6,876.22	7,474.00	7,083.06	213.73	52.97	-94.78	-1,418.24	91.43	6,937.92	6,821.50	116.43	59.590			
14,400.00	6,875.14	7,474.00	7,083.06	216.53	52.97	-94.78	-1,418.24	91.43	7,033.43	6,916.91	116.52	60.362			
14,500.00	6,874.06	7,474.00	7,083.06	219.34	52.97	-94.78	-1,418.24	91.43	7,129.06	7,012.45	116.61	61.135			
14,600.00	6,872.98	7,474.00	7,083.06	222.15	52.97	-94.78	-1,418.24	91.43	7,224.81	7,108.11	116.70	61.909			
14,700.00	6,871.90	7,474.00	7,083.06	224.95	52.97	-94.78	-1,418.24	91.43	7,320.67	7,203.89	116.79	62.684			
14,800.00	6,870.82	7,474.00	7,083.06	227.76	52.97	-94.78	-1,418.24	91.43	7,416.65	7,299.77	116.87	63.459			
14,900.00	6,869.75	7,474.00	7,083.06	230.57	52.97	-94.78	-1,418.24	91.43	7,512.72	7,395.77	116.96	64.235			
15,000.00	6,868.67	7,474.00	7,083.06	233.38	52.97	-94.78	-1,418.24	91.43	7,608.90	7,491.86	117.04	65.012			
15,100.00	6,867.59	7,474.00	7,083.06	236.19	52.97	-94.78	-1,418.24	91.43	7,705.18	7,588.06	117.12	65.790			
15,200.00	6,866.51	7,474.00	7,083.06	239.00	52.97	-94.78	-1,418.24	91.43	7,801.55	7,684.35	117.20	66.567			
15,300.00	6,865.43	7,474.00	7,083.06	241.81	52.97	-94.78	-1,418.24	91.43	7,898.01	7,780.73	117.28	67.346			
15,400.00	6,864.35	7,474.00	7,083.06	244.63	52.97	-94.78	-1,418.24	91.43	7,994.55	7,877.20	117.35	68.125			
15,500.00	6,863.27	7,474.00	7,083.06	247.44	52.97	-94.78	-1,418.24	91.43	8,091.18	7,973.76	117.43	68.904			
15,600.00	6,862.20	7,474.00	7,083.06	250.25	52.97	-94.78	-1,418.24	91.43	8,187.89	8,070.39	117.50	69.683			
15,618.10	6,862.00	7,474.00	7,083.06	250.76	52.97	-94.78	-1,418.24	91.43	8,205.40	8,087.89	117.52	69.824			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #25-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	-75.52	243.01	-940.89	972.47						
100.00	100.00	60.71	60.71	3.28	3.29	-75.52	243.05	-940.94	971.82	965.25	6.57	147.853	CC, ES		
200.00	200.00	155.84	155.84	3.34	3.34	-75.50	243.42	-941.32	972.31	965.63	6.68	145.531			
300.00	299.98	252.92	252.91	3.44	3.45	-127.41	244.14	-942.03	974.26	967.36	6.90	141.265			
400.00	399.84	349.16	349.15	3.61	3.61	-127.54	245.05	-943.02	978.69	971.48	7.21	135.751			
500.00	499.45	452.98	452.95	3.81	3.82	-127.81	246.05	-944.00	985.18	977.55	7.62	129.223			
600.00	598.70	551.79	551.76	4.06	4.06	-128.20	246.81	-944.80	993.68	985.57	8.11	122.567			
700.00	697.47	650.00	649.96	4.35	4.32	-128.68	247.67	-945.67	1,004.55	995.89	8.65	116.076			
800.00	795.62	747.67	747.62	4.66	4.61	-129.33	247.51	-946.71	1,017.69	1,008.44	9.25	109.998			
900.00	893.06	845.96	845.89	5.01	4.91	-130.13	246.18	-948.06	1,033.38	1,023.49	9.90	104.430			
961.44	952.51	911.95	911.86	5.25	5.12	-130.76	244.71	-948.75	1,044.01	1,033.68	10.33	101.067			
1,000.00	989.71	950.81	950.68	5.40	5.25	-131.28	243.01	-949.14	1,050.89	1,040.29	10.60	99.136			
1,100.00	1,086.20	1,046.47	1,046.13	5.81	5.57	-132.66	236.66	-950.31	1,068.99	1,057.68	11.31	94.550			
1,200.00	1,182.69	1,131.42	1,130.84	6.24	5.87	-133.87	230.51	-951.74	1,088.07	1,076.06	12.00	90.658			
1,300.00	1,279.18	1,210.98	1,210.05	6.69	6.16	-135.04	223.42	-954.17	1,108.89	1,096.19	12.70	87.325			
1,400.00	1,375.67	1,288.91	1,287.35	7.15	6.47	-136.27	214.35	-957.82	1,131.70	1,118.30	13.40	84.425			
1,500.00	1,472.15	1,385.82	1,383.07	7.62	6.87	-137.89	200.26	-963.41	1,156.17	1,141.95	14.22	81.312			
1,600.00	1,568.64	1,514.31	1,509.61	8.10	7.42	-140.08	178.51	-968.10	1,179.52	1,164.30	15.22	77.502			
1,700.00	1,665.13	1,591.74	1,585.62	8.59	7.78	-141.41	163.93	-970.17	1,202.86	1,186.87	15.99	75.247			
1,800.00	1,761.62	1,675.95	1,667.83	9.08	8.19	-142.92	145.93	-973.02	1,227.91	1,211.11	16.81	73.063			
1,900.00	1,858.11	1,807.97	1,795.77	9.58	8.88	-145.38	113.48	-975.26	1,252.72	1,234.77	17.95	69.794			
2,000.00	1,954.60	1,907.75	1,891.67	10.08	9.44	-147.30	85.96	-974.38	1,276.66	1,257.72	18.93	67.435			
2,100.00	2,051.09	1,991.42	1,971.46	10.59	9.94	-148.95	60.81	-973.15	1,301.67	1,281.83	19.84	65.619			
2,200.00	2,147.57	2,066.08	2,041.97	11.09	10.41	-150.47	36.29	-972.24	1,328.65	1,307.95	20.69	64.203			
2,300.00	2,244.06	2,133.00	2,104.49	11.61	10.86	-151.86	12.44	-971.70	1,357.91	1,336.41	21.50	63.163			
2,400.00	2,340.55	2,183.93	2,151.60	12.12	11.23	-152.94	-6.89	-971.98	1,390.23	1,368.06	22.17	62.709			
2,500.00	2,437.04	2,234.81	2,198.24	12.64	11.61	-154.03	-27.18	-973.35	1,426.08	1,403.27	22.81	62.507			
2,600.00	2,533.53	2,302.72	2,259.99	13.15	12.15	-155.47	-55.34	-975.78	1,464.51	1,440.89	23.62	62.001			
2,700.00	2,630.02	2,389.50	2,338.46	13.67	12.86	-157.28	-92.28	-978.77	1,504.56	1,479.93	24.63	61.088			
2,800.00	2,726.50	2,450.42	2,393.50	14.19	13.37	-158.50	-118.31	-980.97	1,546.12	1,520.76	25.36	60.968			
2,900.00	2,822.99	2,513.70	2,450.66	14.72	13.91	-159.71	-145.25	-984.22	1,589.95	1,563.84	26.10	60.911			
3,000.00	2,919.48	2,586.47	2,516.40	15.24	14.54	-161.05	-176.19	-988.40	1,635.33	1,608.38	26.95	60.690			
3,100.00	3,015.97	2,658.09	2,581.06	15.76	15.17	-162.31	-206.65	-992.84	1,682.05	1,654.27	27.77	60.569			
3,200.00	3,112.46	2,718.91	2,635.86	16.29	15.72	-163.34	-232.71	-996.99	1,730.25	1,701.79	28.46	60.790			
3,300.00	3,208.95	2,793.20	2,702.58	16.81	16.39	-164.56	-264.90	-1,002.58	1,779.98	1,750.67	29.31	60.726			
3,400.00	3,305.44	2,884.64	2,784.92	17.34	17.23	-165.97	-304.11	-1,009.21	1,830.13	1,799.76	30.37	60.264			
3,500.00	3,401.92	2,971.12	2,863.04	17.87	18.02	-167.24	-340.74	-1,015.14	1,880.46	1,849.10	31.36	59.957			
3,600.00	3,498.41	3,065.07	2,947.84	18.40	18.89	-168.56	-380.73	-1,021.05	1,931.18	1,898.73	32.45	59.516			
3,700.00	3,594.90	3,200.32	3,071.19	18.93	20.12	-170.28	-435.68	-1,028.46	1,981.10	1,947.08	34.02	58.229			
3,800.00	3,691.39	3,268.65	3,133.68	19.46	20.74	-171.10	-463.16	-1,031.51	2,030.56	1,995.77	34.79	58.368			
3,900.00	3,787.88	3,369.14	3,225.59	19.99	21.65	-172.27	-503.55	-1,035.83	2,080.42	2,044.48	35.94	57.890			
4,000.00	3,884.37	3,461.22	3,310.26	20.52	22.47	-173.26	-539.55	-1,039.58	2,130.01	2,093.03	36.98	57.601			
4,100.00	3,980.85	3,526.91	3,370.55	21.05	23.06	-173.95	-565.51	-1,042.16	2,180.13	2,142.43	37.71	57.818			
4,200.00	4,077.34	3,626.02	3,461.49	21.58	23.96	-174.94	-604.68	-1,046.22	2,230.80	2,191.96	38.83	57.447			
4,300.00	4,173.83	3,707.03	3,536.12	22.11	24.69	-175.71	-636.06	-1,049.39	2,281.24	2,241.51	39.74	57.409			
4,390.25	4,260.91	3,755.39	3,580.62	22.59	25.13	-176.15	-654.86	-1,051.47	2,327.42	2,287.17	40.25	57.817			
4,400.00	4,270.32	3,759.53	3,584.42	22.64	25.17	-176.19	-656.50	-1,051.67	2,332.47	2,292.17	40.30	57.882			
4,500.00	4,367.33	3,818.00	3,637.82	23.16	25.70	-176.78	-680.08	-1,055.00	2,383.65	2,342.74	40.91	58.261			
4,600.00	4,465.13	3,870.98	3,685.92	23.65	26.21	-177.29	-702.04	-1,058.24	2,433.00	2,391.55	41.45	58.700			
4,700.00	4,563.60	3,953.68	3,760.76	24.12	27.00	-178.03	-736.95	-1,062.72	2,479.77	2,437.42	42.34	58.562			
4,800.00	4,662.61	4,046.31	3,844.39	24.56	27.90	-178.80	-776.50	-1,067.33	2,523.77	2,480.41	43.36	58.208			
4,900.00	4,762.05	4,148.74	3,936.94	24.98	28.89	-179.61	-820.16	-1,071.72	2,564.41	2,519.93	44.48	57.653			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #25-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,287.06	4,062.91	25.38	30.20	179.40	-877.03	-1,077.10	2,600.83	2,554.81	46.03	56.508			
5,100.00	4,961.73	4,356.96	4,126.55	25.76	30.86	178.93	-905.88	-1,079.37	2,634.03	2,587.33	46.70	56.405			
5,151.69	5,013.42	4,424.30	4,187.82	25.95	31.50	-129.63	-933.73	-1,081.45	2,650.00	2,602.57	47.43	55.877			
5,200.00	5,061.73	4,471.48	4,230.89	26.13	31.94	-129.94	-952.93	-1,082.90	2,664.34	2,616.44	47.90	55.618			
5,300.00	5,161.73	4,562.95	4,314.67	26.49	32.80	-130.52	-989.45	-1,086.56	2,694.37	2,645.55	48.81	55.196			
5,400.00	5,261.73	4,676.72	4,419.67	26.86	33.82	-131.16	-1,032.86	-1,092.40	2,724.20	2,674.22	49.98	54.511			
5,500.00	5,361.73	4,877.80	4,608.09	27.23	35.53	-132.12	-1,102.02	-1,104.13	2,752.19	2,700.10	52.08	52.843			
5,600.00	5,461.73	5,038.09	4,760.18	27.60	36.80	-132.80	-1,152.10	-1,111.39	2,777.09	2,723.43	53.66	51.758			
5,700.00	5,561.73	5,197.21	4,912.38	27.97	37.99	-133.42	-1,198.10	-1,117.40	2,800.01	2,744.85	55.16	50.760			
5,800.00	5,661.73	5,398.72	5,107.32	28.35	39.37	-134.08	-1,248.52	-1,124.79	2,820.30	2,763.33	56.97	49.504			
5,900.00	5,761.73	5,900.00	5,286.64	28.72	42.32	-134.53	-1,285.49	-1,130.89	2,836.67	2,776.60	60.07	47.222			
6,000.00	5,861.73	5,850.57	5,552.18	29.10	41.86	-134.99	-1,325.04	-1,138.68	2,849.07	2,788.63	60.44	47.140			
6,100.00	5,961.73	6,015.99	5,716.78	29.48	42.58	-135.19	-1,341.30	-1,141.01	2,856.74	2,795.16	61.59	46.386			
6,200.00	6,061.73	6,126.04	5,826.38	29.86	43.03	-135.31	-1,351.07	-1,142.39	2,863.95	2,801.54	62.42	45.884			
6,300.00	6,161.73	6,213.73	5,913.77	30.25	43.39	-135.39	-1,358.23	-1,143.95	2,871.03	2,807.91	63.13	45.480			
6,400.00	6,261.73	6,306.05	6,005.76	30.63	43.76	-135.45	-1,365.45	-1,146.48	2,878.53	2,814.67	63.86	45.077			
6,451.69	6,313.42	6,392.45	6,091.93	30.83	44.10	-135.49	-1,371.26	-1,149.28	2,882.21	2,817.78	64.42	44.738			
6,500.00	6,361.68	6,475.97	6,175.29	31.01	44.40	-43.01	-1,375.50	-1,151.87	2,883.66	2,818.73	64.93	44.411			
6,550.00	6,411.34	6,561.72	6,260.95	31.20	44.68	-43.27	-1,378.64	-1,154.25	2,881.74	2,816.33	65.41	44.059			
6,600.00	6,460.39	6,634.87	6,334.06	31.38	44.91	-43.79	-1,380.16	-1,156.34	2,876.44	2,810.64	65.79	43.720			
6,650.00	6,508.54	6,702.16	6,401.31	31.58	45.10	-44.55	-1,380.65	-1,158.52	2,868.00	2,801.88	66.12	43.373			
6,700.00	6,555.48	6,766.46	6,465.57	31.78	45.27	-45.59	-1,380.34	-1,160.82	2,856.56	2,790.15	66.42	43.008			
6,750.00	6,600.93	6,827.53	6,526.59	31.98	45.42	-46.90	-1,379.49	-1,163.11	2,842.26	2,775.59	66.67	42.629			
6,800.00	6,644.61	6,909.38	6,608.36	32.20	45.61	-48.68	-1,377.48	-1,166.10	2,825.14	2,758.17	66.97	42.188			
6,850.00	6,686.25	6,966.61	6,665.53	32.44	45.74	-50.65	-1,375.49	-1,167.83	2,805.14	2,737.97	67.17	41.761			
6,900.00	6,725.58	7,003.21	6,702.11	32.68	45.83	-52.78	-1,374.51	-1,168.60	2,783.01	2,715.70	67.31	41.344			
6,950.00	6,762.38	7,035.55	6,734.44	32.96	45.90	-55.17	-1,373.93	-1,169.03	2,758.99	2,691.55	67.44	40.910			
7,000.00	6,796.41	7,060.59	6,759.48	33.25	45.97	-57.78	-1,373.72	-1,169.19	2,733.35	2,665.79	67.56	40.459			
7,050.00	6,827.46	7,083.18	6,782.07	33.58	46.03	-60.64	-1,373.75	-1,169.21	2,706.31	2,638.63	67.67	39.990			
7,100.00	6,855.34	7,103.19	6,802.08	33.93	46.09	-63.75	-1,373.95	-1,169.12	2,678.07	2,610.27	67.80	39.502			
7,150.00	6,879.88	7,121.41	6,820.29	34.33	46.14	-67.08	-1,374.26	-1,168.96	2,648.85	2,580.92	67.93	38.993			
7,200.00	6,900.93	7,144.61	6,843.49	34.76	46.21	-70.78	-1,374.70	-1,168.73	2,618.84	2,550.72	68.12	38.445			
7,250.00	6,918.36	7,163.81	6,862.68	35.23	46.27	-74.58	-1,375.02	-1,168.55	2,588.25	2,519.93	68.33	37.881			
7,300.00	6,932.05	7,178.85	6,877.72	35.74	46.32	-78.42	-1,375.26	-1,168.42	2,557.34	2,488.78	68.56	37.302			
7,350.00	6,941.94	7,189.63	6,888.50	36.29	46.35	-82.22	-1,375.41	-1,168.34	2,526.35	2,457.54	68.82	36.711			
7,400.00	6,947.94	7,196.06	6,894.92	36.87	46.37	-85.91	-1,375.50	-1,168.29	2,495.53	2,426.43	69.11	36.111			
7,450.00	6,950.04	7,198.05	6,896.92	37.47	46.38	-89.42	-1,375.52	-1,168.27	2,465.11	2,395.68	69.42	35.508			
7,458.56	6,950.00	7,197.94	6,896.81	37.58	46.38	-89.99	-1,375.52	-1,168.27	2,459.96	2,390.47	69.48	35.404			
7,500.00	6,949.56	7,197.12	6,895.98	38.11	46.37	-89.97	-1,375.51	-1,168.28	2,435.28	2,365.50	69.78	34.899			
7,600.00	6,948.48	7,195.10	6,893.97	39.51	46.37	-89.91	-1,375.48	-1,168.30	2,377.65	2,306.99	70.66	33.648			
7,700.00	6,947.40	7,193.07	6,891.94	41.06	46.36	-89.85	-1,375.46	-1,168.31	2,322.90	2,251.12	71.77	32.366			
7,800.00	6,946.32	7,191.02	6,889.89	42.74	46.35	-89.79	-1,375.43	-1,168.33	2,271.23	2,198.12	73.11	31.067			
7,900.00	6,945.24	7,188.95	6,887.82	44.55	46.35	-89.73	-1,375.40	-1,168.34	2,222.85	2,148.19	74.67	29.770			
8,000.00	6,944.16	7,186.86	6,885.73	46.46	46.34	-89.67	-1,375.37	-1,168.36	2,178.00	2,101.55	76.45	28.491			
8,100.00	6,943.08	7,184.76	6,883.63	48.47	46.33	-89.61	-1,375.34	-1,168.38	2,136.89	2,058.45	78.43	27.244			
8,200.00	6,942.01	7,182.63	6,881.50	50.55	46.33	-89.55	-1,375.31	-1,168.39	2,099.73	2,019.12	80.62	26.046			
8,300.00	6,940.93	7,180.49	6,879.36	52.71	46.32	-89.48	-1,375.28	-1,168.41	2,066.75	1,983.78	82.98	24.907			
8,400.00	6,939.85	7,178.32	6,877.20	54.93	46.31	-89.42	-1,375.25	-1,168.43	2,038.15	1,952.65	85.50	23.839			
8,500.00	6,938.77	7,176.14	6,875.01	57.20	46.31	-89.36	-1,375.22	-1,168.44	2,014.10	1,925.95	88.15	22.849			
8,600.00	6,937.69	7,173.94	6,872.81	59.53	46.30	-89.29	-1,375.18	-1,168.46	1,994.79	1,903.88	90.91	21.942			
8,700.00	6,936.61	7,171.72	6,870.59	61.89	46.29	-89.23	-1,375.15	-1,168.48	1,980.34	1,886.59	93.75	21.124			
8,800.00	6,935.54	7,169.47	6,868.35	64.30	46.29	-89.16	-1,375.11	-1,168.50	1,970.86	1,874.22	96.63	20.395			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 16-MWD													Boomerang 21-5 - WIEDEMAN #25-5 - OH - OH		Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
8,900.00	6,934.46	7,167.21	6,866.08	66.74	46.28	-89.10	-1,375.08	-1,168.52	1,966.42	1,866.89	99.53	19.757				
8,937.36	6,934.05	7,166.36	6,865.23	67.66	46.28	-89.07	-1,375.07	-1,168.53	1,966.07	1,865.46	100.61	19.542				
9,000.00	6,933.38	7,164.92	6,863.80	69.21	46.27	-89.03	-1,375.04	-1,168.54	1,967.06	1,864.66	102.40	19.209				
9,100.00	6,932.30	7,162.62	6,861.49	71.71	46.27	-88.96	-1,375.01	-1,168.56	1,972.78	1,867.56	105.22	18.749				
9,200.00	6,931.22	7,160.29	6,859.16	74.23	46.26	-88.90	-1,374.97	-1,168.58	1,983.52	1,875.58	107.95	18.375				
9,300.00	6,930.14	7,157.94	6,856.82	76.78	46.25	-88.83	-1,374.93	-1,168.60	1,999.22	1,888.65	110.56	18.082				
9,400.00	6,929.06	7,155.57	6,854.44	79.34	46.25	-88.76	-1,374.89	-1,168.62	2,019.74	1,906.70	113.04	17.868				
9,500.00	6,927.99	7,153.17	6,852.05	81.93	46.24	-88.69	-1,374.85	-1,168.65	2,044.96	1,929.60	115.35	17.728				
9,600.00	6,926.91	7,150.76	6,849.63	84.53	46.23	-88.62	-1,374.81	-1,168.67	2,074.68	1,957.18	117.50	17.657				
9,700.00	6,925.83	7,148.32	6,847.19	87.14	46.22	-88.55	-1,374.77	-1,168.69	2,108.74	1,989.27	119.47	17.651 SF				
9,800.00	6,924.75	7,145.85	6,844.73	89.77	46.22	-88.48	-1,374.72	-1,168.71	2,146.91	2,025.66	121.25	17.707				
9,900.00	6,923.67	7,143.36	6,842.24	92.41	46.21	-88.40	-1,374.68	-1,168.74	2,188.99	2,066.14	122.85	17.818				
10,000.00	6,922.59	7,140.85	6,839.73	95.07	46.20	-88.33	-1,374.63	-1,168.76	2,234.75	2,110.47	124.28	17.982				
10,100.00	6,921.51	7,138.31	6,837.19	97.73	46.19	-88.26	-1,374.59	-1,168.79	2,283.98	2,158.44	125.53	18.194				
10,200.00	6,920.44	7,135.75	6,834.63	100.40	46.18	-88.18	-1,374.54	-1,168.81	2,336.44	2,209.81	126.63	18.451				
10,300.00	6,919.36	7,133.16	6,832.04	103.08	46.18	-88.11	-1,374.49	-1,168.84	2,391.94	2,264.36	127.58	18.749				
10,400.00	6,918.28	7,130.55	6,829.43	105.77	46.17	-88.03	-1,374.44	-1,168.86	2,450.26	2,321.87	128.39	19.084				
10,500.00	6,917.20	7,127.91	6,826.79	108.47	46.16	-87.95	-1,374.39	-1,168.89	2,511.20	2,382.13	129.08	19.455				
10,600.00	6,916.12	7,125.25	6,824.13	111.18	46.15	-87.87	-1,374.34	-1,168.92	2,574.59	2,444.94	129.65	19.858				
10,700.00	6,915.04	7,122.55	6,821.44	113.89	46.14	-87.80	-1,374.29	-1,168.95	2,640.24	2,510.12	130.12	20.291				
10,800.00	6,913.96	7,119.83	6,818.72	116.61	46.14	-87.72	-1,374.23	-1,168.98	2,707.99	2,577.49	130.50	20.751				
10,900.00	6,912.89	7,119.00	6,817.88	119.33	46.13	-87.69	-1,374.22	-1,168.98	2,777.69	2,646.88	130.81	21.235				
11,000.00	6,911.81	7,119.00	6,817.88	122.06	46.13	-87.69	-1,374.22	-1,168.98	2,849.20	2,718.15	131.05	21.742				
11,100.00	6,910.73	7,119.00	6,817.88	124.79	46.13	-87.69	-1,374.22	-1,168.98	2,922.37	2,791.15	131.22	22.271				
11,200.00	6,909.65	7,119.00	6,817.88	127.53	46.13	-87.69	-1,374.22	-1,168.98	2,997.10	2,865.76	131.34	22.819				
11,300.00	6,908.57	7,119.00	6,817.88	130.27	46.13	-87.69	-1,374.22	-1,168.98	3,073.26	2,941.85	131.41	23.386				
11,400.00	6,907.49	7,119.00	6,817.88	133.02	46.13	-87.69	-1,374.22	-1,168.98	3,150.76	3,019.31	131.45	23.970				
11,500.00	6,906.41	7,119.00	6,817.88	135.77	46.13	-87.69	-1,374.22	-1,168.98	3,229.49	3,098.05	131.44	24.570				
11,600.00	6,905.34	7,119.00	6,817.88	138.52	46.13	-87.69	-1,374.22	-1,168.98	3,309.38	3,177.97	131.41	25.184				
11,700.00	6,904.26	7,119.00	6,817.88	141.28	46.13	-87.69	-1,374.22	-1,168.98	3,390.33	3,258.98	131.34	25.812				
11,800.00	6,903.18	7,119.00	6,817.88	144.04	46.13	-87.69	-1,374.22	-1,168.98	3,472.27	3,341.01	131.26	26.453				
11,900.00	6,902.10	7,119.00	6,817.88	146.80	46.13	-87.69	-1,374.22	-1,168.98	3,555.14	3,423.98	131.16	27.106				
12,000.00	6,901.02	7,119.00	6,817.88	149.57	46.13	-87.69	-1,374.22	-1,168.98	3,638.87	3,507.83	131.04	27.769				
12,100.00	6,899.94	7,119.00	6,817.88	152.34	46.13	-87.69	-1,374.22	-1,168.98	3,723.40	3,592.49	130.91	28.443				
12,200.00	6,898.87	7,119.00	6,817.88	155.11	46.13	-87.69	-1,374.22	-1,168.98	3,808.68	3,677.91	130.76	29.126				
12,300.00	6,897.79	7,119.00	6,817.88	157.89	46.13	-87.69	-1,374.22	-1,168.98	3,894.66	3,764.05	130.61	29.818				
12,400.00	6,896.71	7,119.00	6,817.88	160.66	46.13	-87.69	-1,374.22	-1,168.98	3,981.30	3,850.84	130.45	30.519				
12,500.00	6,895.63	7,119.00	6,817.88	163.44	46.13	-87.69	-1,374.22	-1,168.98	4,068.54	3,938.26	130.29	31.227				
12,600.00	6,894.55	7,119.00	6,817.88	166.22	46.13	-87.69	-1,374.22	-1,168.98	4,156.37	4,026.25	130.12	31.943				
12,700.00	6,893.47	7,119.00	6,817.88	169.00	46.13	-87.69	-1,374.22	-1,168.98	4,244.73	4,114.79	129.95	32.665				
12,800.00	6,892.39	7,119.00	6,817.88	171.79	46.13	-87.69	-1,374.22	-1,168.98	4,333.60	4,203.83	129.77	33.394				
12,900.00	6,891.32	7,119.00	6,817.88	174.57	46.13	-87.69	-1,374.22	-1,168.98	4,422.94	4,293.35	129.59	34.129				
13,000.00	6,890.24	7,119.00	6,817.88	177.36	46.13	-87.69	-1,374.22	-1,168.98	4,512.73	4,383.32	129.42	34.869				
13,100.00	6,889.16	7,119.00	6,817.88	180.15	46.13	-87.69	-1,374.22	-1,168.98	4,602.95	4,473.70	129.24	35.615				
13,200.00	6,888.08	7,119.00	6,817.88	182.94	46.13	-87.69	-1,374.22	-1,168.98	4,693.55	4,564.49	129.06	36.366				
13,300.00	6,887.00	7,119.00	6,817.88	185.74	46.13	-87.69	-1,374.22	-1,168.98	4,784.54	4,655.65	128.89	37.121				
13,400.00	6,885.92	7,119.00	6,817.88	188.53	46.13	-87.69	-1,374.22	-1,168.98	4,875.87	4,747.16	128.72	37.881				
13,500.00	6,884.84	7,119.00	6,817.88	191.32	46.13	-87.69	-1,374.22	-1,168.98	4,967.54	4,839.00	128.54	38.645				
13,600.00	6,883.77	7,119.00	6,817.88	194.12	46.13	-87.69	-1,374.22	-1,168.98	5,059.53	4,931.15	128.37	39.412				
13,700.00	6,882.69	7,119.00	6,817.88	196.92	46.13	-87.69	-1,374.22	-1,168.98	5,151.81	5,023.60	128.21	40.183				
13,800.00	6,881.61	7,119.00	6,817.88	199.72	46.13	-87.69	-1,374.22	-1,168.98	5,244.38	5,116.34	128.04	40.958				
13,900.00	6,880.53	7,119.00	6,817.88	202.52	46.13	-87.69	-1,374.22	-1,168.98	5,337.21	5,209.33	127.88	41.736				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #25-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,879.45	7,119.00	6,817.88	205.32	46.13	-87.69	-1,374.22	-1,168.98	5,430.30	5,302.58	127.72	42.517			
14,100.00	6,878.37	7,119.00	6,817.88	208.12	46.13	-87.69	-1,374.22	-1,168.98	5,523.63	5,396.07	127.57	43.300			
14,200.00	6,877.29	7,119.00	6,817.88	210.92	46.13	-87.69	-1,374.22	-1,168.98	5,617.20	5,489.78	127.41	44.087			
14,300.00	6,876.22	7,119.00	6,817.88	213.73	46.13	-87.69	-1,374.22	-1,168.98	5,710.97	5,583.71	127.26	44.876			
14,400.00	6,875.14	7,119.00	6,817.88	216.53	46.13	-87.69	-1,374.22	-1,168.98	5,804.96	5,677.84	127.12	45.667			
14,500.00	6,874.06	7,119.00	6,817.88	219.34	46.13	-87.69	-1,374.22	-1,168.98	5,899.14	5,772.17	126.97	46.460			
14,600.00	6,872.98	7,119.00	6,817.88	222.15	46.13	-87.69	-1,374.22	-1,168.98	5,993.52	5,866.68	126.83	47.255			
14,700.00	6,871.90	7,119.00	6,817.88	224.95	46.13	-87.69	-1,374.22	-1,168.98	6,088.07	5,961.37	126.70	48.053			
14,800.00	6,870.82	7,119.00	6,817.88	227.76	46.13	-87.69	-1,374.22	-1,168.98	6,182.79	6,056.23	126.56	48.852			
14,900.00	6,869.75	7,119.00	6,817.88	230.57	46.13	-87.69	-1,374.22	-1,168.98	6,277.68	6,151.25	126.43	49.652			
15,000.00	6,868.67	7,119.00	6,817.88	233.38	46.13	-87.69	-1,374.22	-1,168.98	6,372.72	6,246.42	126.31	50.455			
15,100.00	6,867.59	7,119.00	6,817.88	236.19	46.13	-87.69	-1,374.22	-1,168.98	6,467.92	6,341.74	126.18	51.258			
15,200.00	6,866.51	7,119.00	6,817.88	239.00	46.13	-87.69	-1,374.22	-1,168.98	6,563.25	6,437.19	126.06	52.064			
15,300.00	6,865.43	7,090.53	6,789.42	241.81	46.05	-86.86	-1,373.81	-1,169.19	6,658.53	6,532.65	125.88	52.897			
15,400.00	6,864.35	7,090.09	6,788.98	244.63	46.05	-86.85	-1,373.80	-1,169.19	6,754.13	6,628.37	125.76	53.705			
15,500.00	6,863.27	7,089.66	6,788.55	247.44	46.05	-86.84	-1,373.80	-1,169.19	6,849.86	6,724.20	125.65	54.515			
15,600.00	6,862.20	7,089.24	6,788.13	250.25	46.05	-86.83	-1,373.80	-1,169.19	6,945.70	6,820.16	125.54	55.325			
15,618.10	6,862.00	7,089.16	6,788.05	250.76	46.05	-86.82	-1,373.80	-1,169.19	6,963.06	6,837.53	125.52	55.472			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - WIEDEMAN #29-5 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 16-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-72.44	303.85	-960.38	1,008.02					
100.00	100.00	59.89	59.89	3.28	3.29	-72.44	303.86	-960.42	1,007.35	1,000.77	6.57	153.264		
200.00	200.00	155.29	155.29	3.34	3.34	-72.45	303.91	-960.84	1,007.78	1,001.10	6.68	150.853		
300.00	299.98	257.63	257.63	3.44	3.46	-124.35	304.96	-961.12	1,009.34	1,002.44	6.90	146.288		
400.00	399.84	349.95	349.88	3.61	3.60	-124.34	308.11	-960.96	1,013.14	1,005.94	7.20	140.644		
500.00	499.45	446.56	446.27	3.81	3.80	-124.27	314.53	-960.27	1,019.39	1,011.78	7.60	134.064		
600.00	598.70	539.24	538.43	4.06	4.03	-124.11	324.23	-958.99	1,028.10	1,020.02	8.08	127.235		
700.00	697.47	630.12	628.37	4.35	4.30	-123.86	337.10	-957.36	1,039.47	1,030.84	8.63	120.428		
800.00	795.62	717.81	714.75	4.66	4.60	-123.58	352.10	-955.93	1,053.80	1,044.55	9.25	113.960		
900.00	893.06	812.23	807.50	5.01	4.96	-123.32	369.73	-954.57	1,070.71	1,060.75	9.95	107.565		
961.44	952.51	874.74	868.79	5.25	5.22	-123.19	381.99	-953.63	1,082.17	1,071.73	10.44	103.686		
1,000.00	989.71	914.88	908.06	5.40	5.40	-123.23	390.26	-952.75	1,089.44	1,078.68	10.76	101.258		
1,100.00	1,086.20	1,013.03	1,003.75	5.81	5.87	-123.23	411.93	-949.99	1,108.19	1,096.58	11.61	95.455		
1,200.00	1,182.69	1,106.65	1,094.39	6.24	6.36	-123.10	435.14	-946.80	1,127.18	1,114.68	12.50	90.181		
1,300.00	1,279.18	1,192.16	1,176.50	6.69	6.84	-122.85	458.75	-943.63	1,146.79	1,133.39	13.40	85.595		
1,400.00	1,375.67	1,276.79	1,256.89	7.15	7.37	-122.48	485.04	-940.85	1,167.85	1,153.51	14.34	81.441		
1,500.00	1,472.15	1,369.14	1,343.89	7.62	7.98	-121.97	515.83	-937.49	1,189.42	1,174.04	15.38	77.330		
1,600.00	1,568.64	1,457.83	1,427.24	8.10	8.60	-121.48	546.03	-934.74	1,211.80	1,195.37	16.42	73.781		
1,700.00	1,665.13	1,552.87	1,516.82	8.59	9.27	-121.01	577.71	-932.44	1,234.66	1,217.13	17.53	70.431		
1,800.00	1,761.62	1,649.30	1,608.04	9.08	9.95	-120.61	608.90	-930.46	1,257.58	1,238.93	18.65	67.419		
1,900.00	1,858.11	1,744.33	1,698.25	9.58	10.62	-120.27	638.73	-929.00	1,280.70	1,260.94	19.76	64.798		
2,000.00	1,954.60	1,829.31	1,779.28	10.08	11.21	-120.04	664.34	-928.45	1,304.25	1,283.46	20.79	62.733		
2,100.00	2,051.09	1,927.09	1,872.40	10.59	11.90	-119.77	694.19	-928.61	1,328.66	1,306.73	21.93	60.591		
2,200.00	2,147.57	2,051.13	1,990.89	11.09	12.77	-119.49	730.85	-927.59	1,351.89	1,328.60	23.29	58.050		
2,300.00	2,244.06	2,164.46	2,099.73	11.61	13.54	-119.30	762.32	-925.35	1,373.40	1,348.85	24.55	55.952		
2,400.00	2,340.55	2,272.11	2,203.04	12.12	14.28	-119.10	792.42	-922.26	1,394.19	1,368.43	25.76	54.117		
2,500.00	2,437.04	2,388.41	2,315.40	12.64	15.05	-119.00	822.22	-918.67	1,413.94	1,386.91	27.03	52.306		
2,600.00	2,533.53	2,466.94	2,391.21	13.15	15.57	-118.92	842.55	-916.06	1,433.59	1,405.58	28.01	51.181		
2,700.00	2,630.02	2,567.32	2,487.70	13.67	16.26	-118.78	870.04	-913.15	1,454.17	1,424.99	29.18	49.836		
2,800.00	2,726.50	2,648.93	2,565.50	14.19	16.85	-118.57	894.46	-910.06	1,474.93	1,444.70	30.22	48.801		
2,900.00	2,822.99	2,727.00	2,639.18	14.72	17.45	-118.29	920.11	-907.20	1,496.93	1,465.68	31.26	47.890		
3,000.00	2,919.48	2,819.16	2,725.95	15.24	18.16	-117.95	951.04	-904.51	1,519.92	1,487.50	32.42	46.876		
3,100.00	3,015.97	2,911.87	2,814.01	15.76	18.86	-117.72	979.99	-902.86	1,543.06	1,509.49	33.58	45.958		
3,200.00	3,112.46	3,008.97	2,906.48	16.29	19.57	-117.52	1,009.60	-901.66	1,566.42	1,531.67	34.76	45.068		
3,300.00	3,208.95	3,113.42	3,006.33	16.81	20.33	-117.35	1,040.25	-900.61	1,589.56	1,553.56	36.00	44.160		
3,400.00	3,305.44	3,211.92	3,100.79	17.34	21.02	-117.24	1,068.12	-899.93	1,612.56	1,575.40	37.16	43.391		
3,500.00	3,401.92	3,324.17	3,208.46	17.87	21.81	-117.11	1,099.82	-898.24	1,634.80	1,596.34	38.46	42.505		
3,600.00	3,498.41	3,416.88	3,297.57	18.40	22.46	-117.02	1,125.36	-896.86	1,656.81	1,617.23	39.57	41.865		
3,700.00	3,594.90	3,522.14	3,399.15	18.93	23.16	-116.99	1,152.95	-896.24	1,679.10	1,638.32	40.78	41.176		
3,800.00	3,691.39	3,643.26	3,516.91	19.46	23.94	-117.06	1,181.26	-895.47	1,700.20	1,658.11	42.09	40.398		
3,900.00	3,787.88	3,739.65	3,610.46	19.99	24.56	-117.08	1,204.40	-893.92	1,720.68	1,677.48	43.20	39.834		
4,000.00	3,884.37	3,826.97	3,694.94	20.52	25.14	-117.07	1,226.44	-892.34	1,741.46	1,697.22	44.24	39.364		
4,100.00	3,980.85	3,901.69	3,767.43	21.05	25.62	-117.09	1,244.57	-892.11	1,763.22	1,718.06	45.16	39.045		
4,200.00	4,077.34	4,022.10	3,884.93	21.58	26.35	-117.25	1,270.80	-893.63	1,785.49	1,739.06	46.43	38.456		
4,300.00	4,173.83	4,269.29	4,129.72	22.11	27.55	-118.12	1,303.39	-890.93	1,801.72	1,753.37	48.35	37.262		
4,390.25	4,260.91	4,366.17	4,226.42	22.59	27.90	-118.65	1,308.75	-888.64	1,813.25	1,764.05	49.20	36.855		
4,400.00	4,270.32	4,373.20	4,233.44	22.64	27.92	-118.72	1,309.03	-888.52	1,814.49	1,765.21	49.27	36.824		
4,500.00	4,367.33	4,447.07	4,307.27	23.16	28.17	-119.36	1,311.39	-888.07	1,827.16	1,777.13	50.03	36.523		
4,600.00	4,465.13	4,556.73	4,416.92	23.65	28.50	-120.15	1,312.74	-888.40	1,838.41	1,787.54	50.87	36.140		
4,700.00	4,563.60	4,646.24	4,506.42	24.12	28.75	-120.76	1,312.43	-889.32	1,848.18	1,796.60	51.59	35.827		
4,800.00	4,662.61	4,741.83	4,601.98	24.56	29.01	-121.32	1,310.90	-891.04	1,856.57	1,804.28	52.29	35.507		
4,900.00	4,762.05	4,851.54	4,711.65	24.98	29.30	-121.83	1,308.52	-893.07	1,863.09	1,810.07	53.02	35.140		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #29-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,861.80	4,951.59	4,811.68	25.38	29.57	-122.14	1,306.95	-894.22	1,867.38	1,813.67	53.70	34.772			
5,100.00	4,961.73	5,046.89	4,906.96	25.76	29.84	-122.32	1,305.79	-895.43	1,870.06	1,815.71	54.36	34.404			
5,151.69	5,013.42	5,097.57	4,957.64	25.95	29.98	-70.47	1,305.33	-896.09	1,870.79	1,816.10	54.69	34.204			
5,200.00	5,061.73	5,144.95	5,005.01	26.13	30.12	-70.49	1,304.99	-896.70	1,871.26	1,816.25	55.01	34.017			
5,300.00	5,161.73	5,236.70	5,096.75	26.49	30.40	-70.51	1,304.68	-897.99	1,872.46	1,816.82	55.65	33.649			
5,400.00	5,261.73	5,329.38	5,189.42	26.86	30.68	-70.52	1,304.86	-899.56	1,874.13	1,817.83	56.29	33.291			
5,500.00	5,361.73	5,424.64	5,284.66	27.23	30.98	-70.53	1,305.33	-901.38	1,876.09	1,819.13	56.96	32.936			
5,600.00	5,461.73	5,529.77	5,389.77	27.60	31.32	-70.53	1,305.91	-903.34	1,878.04	1,820.36	57.68	32.559			
5,700.00	5,561.73	5,623.77	5,483.76	27.97	31.62	-70.54	1,306.31	-905.09	1,879.93	1,821.58	58.35	32.217			
5,800.00	5,661.73	5,716.98	5,576.93	28.35	31.92	-70.55	1,306.50	-907.36	1,882.29	1,823.27	59.02	31.892			
5,900.00	5,761.73	5,818.07	5,677.99	28.72	32.26	-70.56	1,307.18	-909.75	1,884.75	1,825.01	59.73	31.552			
6,000.00	5,861.73	5,909.80	5,769.69	29.10	32.57	-70.55	1,308.26	-911.92	1,887.38	1,826.96	60.41	31.241			
6,100.00	5,961.73	6,022.97	5,882.81	29.48	32.95	-70.54	1,309.69	-914.77	1,890.21	1,829.01	61.20	30.885			
6,200.00	6,061.73	6,139.45	5,999.29	29.86	33.36	-70.52	1,310.81	-916.18	1,891.63	1,829.62	62.01	30.505			
6,300.00	6,161.73	6,232.11	6,091.93	30.25	33.68	-70.50	1,311.76	-917.31	1,893.11	1,830.40	62.71	30.189			
6,400.00	6,261.73	6,320.30	6,180.10	30.63	33.99	-70.48	1,312.98	-918.74	1,895.11	1,831.72	63.39	29.895			
6,451.69	6,313.42	6,366.89	6,226.67	30.83	34.15	-70.47	1,313.83	-919.66	1,896.38	1,832.63	63.75	29.747			
6,500.00	6,361.68	6,414.22	6,273.98	31.01	34.33	22.04	1,314.75	-920.63	1,895.94	1,831.84	64.10	29.578			
6,550.00	6,411.34	6,463.00	6,322.74	31.20	34.50	22.26	1,315.72	-921.66	1,891.93	1,827.48	64.45	29.355			
6,600.00	6,460.39	6,520.88	6,380.60	31.38	34.71	22.68	1,316.85	-922.83	1,884.29	1,819.45	64.84	29.062			
6,650.00	6,508.54	6,587.79	6,447.50	31.58	34.95	23.34	1,317.65	-923.76	1,872.69	1,807.43	65.26	28.696			
6,700.00	6,555.48	6,650.94	6,510.65	31.78	35.17	24.21	1,317.93	-924.19	1,857.18	1,791.53	65.65	28.291			
6,750.00	6,600.93	6,709.47	6,569.18	31.98	35.37	25.35	1,318.06	-924.15	1,838.00	1,772.00	66.00	27.848			
6,800.00	6,644.61	6,765.30	6,625.00	32.20	35.56	26.78	1,318.14	-923.71	1,815.33	1,749.00	66.33	27.367			
6,850.00	6,686.25	6,802.72	6,662.42	32.44	35.69	28.39	1,318.19	-923.36	1,789.58	1,722.99	66.59	26.874			
6,900.00	6,725.58	6,839.65	6,699.35	32.68	35.81	30.37	1,318.26	-923.04	1,761.06	1,694.22	66.84	26.346			
6,950.00	6,762.38	6,874.23	6,733.93	32.96	35.93	32.77	1,318.34	-922.78	1,729.97	1,662.88	67.09	25.787			
7,000.00	6,796.41	6,906.95	6,766.65	33.25	36.04	35.66	1,318.42	-922.57	1,696.52	1,629.19	67.32	25.200			
7,050.00	6,827.46	6,937.73	6,797.43	33.58	36.15	39.15	1,318.51	-922.37	1,660.92	1,593.37	67.56	24.585			
7,100.00	6,855.34	6,965.33	6,825.03	33.93	36.24	43.31	1,318.59	-922.19	1,623.44	1,555.65	67.79	23.950			
7,150.00	6,879.88	6,989.58	6,849.28	34.33	36.33	48.22	1,318.66	-922.04	1,584.34	1,516.33	68.01	23.295			
7,200.00	6,900.93	7,010.32	6,870.02	34.76	36.40	53.94	1,318.71	-921.90	1,543.92	1,475.68	68.24	22.626			
7,250.00	6,918.36	7,027.44	6,887.13	35.23	36.46	60.45	1,318.76	-921.79	1,502.47	1,434.00	68.47	21.944			
7,300.00	6,932.05	7,040.82	6,900.51	35.74	36.50	67.63	1,318.80	-921.71	1,460.31	1,391.60	68.70	21.255			
7,350.00	6,941.94	7,048.39	6,908.08	36.29	36.53	75.07	1,318.83	-921.67	1,417.76	1,348.81	68.95	20.563			
7,400.00	6,947.94	7,053.62	6,913.31	36.87	36.55	82.68	1,318.84	-921.65	1,375.12	1,305.91	69.21	19.870			
7,450.00	6,950.04	7,055.30	6,915.00	37.47	36.56	90.00	1,318.85	-921.64	1,332.70	1,263.22	69.48	19.181			
7,458.56	6,950.00	7,055.24	6,914.93	37.58	36.56	91.20	1,318.85	-921.64	1,325.49	1,255.96	69.53	19.063			
7,500.00	6,949.56	7,054.65	6,914.34	38.11	36.55	91.15	1,318.85	-921.64	1,290.79	1,221.01	69.78	18.497			
7,600.00	6,948.48	7,053.21	6,912.91	39.51	36.55	91.04	1,318.84	-921.65	1,208.81	1,138.28	70.53	17.139			
7,700.00	6,947.40	7,051.76	6,911.45	41.06	36.54	90.92	1,318.84	-921.66	1,129.74	1,058.25	71.49	15.802			
7,800.00	6,946.32	7,050.29	6,909.98	42.74	36.54	90.80	1,318.83	-921.66	1,054.22	981.50	72.72	14.496			
7,900.00	6,945.24	7,048.80	6,908.49	44.55	36.53	90.68	1,318.83	-921.67	983.09	908.84	74.25	13.240			
8,000.00	6,944.16	7,047.29	6,906.99	46.46	36.53	90.56	1,318.82	-921.68	917.35	841.24	76.11	12.054			
8,100.00	6,943.08	7,045.76	6,905.46	48.47	36.52	90.44	1,318.82	-921.69	858.25	779.97	78.28	10.964			
8,200.00	6,942.01	7,044.22	6,903.91	50.55	36.52	90.32	1,318.81	-921.70	807.25	726.51	80.74	9.999			
8,300.00	6,940.93	7,042.65	6,902.35	52.71	36.51	90.19	1,318.81	-921.70	765.97	682.61	83.36	9.189			
8,400.00	6,939.85	7,041.47	6,901.17	54.93	36.51	90.10	1,318.80	-921.71	736.03	650.06	85.98	8.561			
8,500.00	6,938.77	7,039.74	6,899.44	57.20	36.50	89.96	1,318.80	-921.72	718.88	630.50	88.38	8.134			
8,574.82	6,937.96	7,038.45	6,898.15	58.94	36.50	89.85	1,318.79	-921.72	714.98	625.06	89.92	7.952 CC			
8,600.00	6,937.69	7,038.01	6,897.71	59.53	36.49	89.82	1,318.79	-921.73	715.42	625.06	90.36	7.917 ES			
8,700.00	6,936.61	7,036.29	6,895.98	61.89	36.49	89.68	1,318.79	-921.74	725.85	634.09	91.76	7.910 SF			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - WIEDEMAN #29-5 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 16-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	6,935.54	7,034.56	6,894.25	64.30	36.48	89.54	1,318.78	-921.75	749.59	657.06	92.53	8.101		
8,900.00	6,934.46	7,032.83	6,892.53	66.74	36.48	89.40	1,318.78	-921.76	785.43	692.71	92.72	8.471		
9,000.00	6,933.38	7,031.11	6,890.81	69.21	36.47	89.27	1,318.77	-921.77	831.82	739.37	92.44	8.998		
9,100.00	6,932.30	7,029.38	6,889.07	71.71	36.47	89.13	1,318.77	-921.78	887.09	795.25	91.84	9.659		
9,200.00	6,931.22	7,027.64	6,887.34	74.23	36.46	88.99	1,318.76	-921.79	949.70	858.67	91.03	10.433		
9,300.00	6,930.14	7,025.91	6,885.61	76.78	36.45	88.85	1,318.76	-921.80	1,018.30	928.18	90.12	11.300		
9,400.00	6,929.06	7,024.19	6,883.88	79.34	36.45	88.71	1,318.75	-921.82	1,091.75	1,002.58	89.17	12.243		
9,500.00	6,927.99	7,022.46	6,882.15	81.93	36.44	88.57	1,318.75	-921.83	1,169.15	1,080.91	88.24	13.250		
9,600.00	6,926.91	7,020.73	6,880.43	84.53	36.44	88.43	1,318.74	-921.84	1,249.75	1,162.41	87.34	14.309		
9,700.00	6,925.83	7,019.00	6,878.70	87.14	36.43	88.30	1,318.74	-921.85	1,332.99	1,246.48	86.50	15.410		
9,800.00	6,924.75	7,017.27	6,876.97	89.77	36.42	88.16	1,318.73	-921.86	1,418.39	1,332.66	85.72	16.546		
9,900.00	6,923.67	7,015.54	6,875.24	92.41	36.42	88.02	1,318.73	-921.87	1,505.58	1,420.58	85.00	17.712		
10,000.00	6,922.59	7,013.81	6,873.51	95.07	36.41	87.88	1,318.72	-921.88	1,594.28	1,509.94	84.34	18.902		
10,100.00	6,921.51	7,012.09	6,871.78	97.73	36.41	87.74	1,318.72	-921.89	1,684.25	1,600.50	83.74	20.112		
10,200.00	6,920.44	7,010.36	6,870.05	100.40	36.40	87.60	1,318.71	-921.90	1,775.28	1,692.09	83.19	21.340		
10,300.00	6,919.36	7,008.63	6,868.32	103.08	36.39	87.47	1,318.71	-921.91	1,867.23	1,784.55	82.69	22.582		
10,400.00	6,918.28	7,006.90	6,866.60	105.77	36.39	87.33	1,318.70	-921.93	1,959.97	1,877.75	82.23	23.836		
10,500.00	6,917.20	7,005.17	6,864.87	108.47	36.38	87.19	1,318.70	-921.94	2,053.39	1,971.58	81.81	25.100		
10,600.00	6,916.12	7,003.44	6,863.14	111.18	36.38	87.05	1,318.69	-921.95	2,147.40	2,065.98	81.42	26.373		
10,700.00	6,915.04	7,001.71	6,861.41	113.89	36.37	86.91	1,318.69	-921.96	2,241.93	2,160.86	81.07	27.653		
10,800.00	6,913.96	6,999.98	6,859.68	116.61	36.36	86.78	1,318.68	-921.97	2,336.91	2,256.16	80.75	28.940		
10,900.00	6,912.89	6,998.25	6,857.95	119.33	36.36	86.64	1,318.68	-921.98	2,432.29	2,351.84	80.46	30.231		
11,000.00	6,911.81	6,996.52	6,856.22	122.06	36.35	86.50	1,318.67	-921.99	2,528.03	2,447.85	80.19	31.527		
11,100.00	6,910.73	6,994.79	6,854.49	124.79	36.35	86.36	1,318.67	-922.00	2,624.09	2,544.15	79.94	32.827		
11,200.00	6,909.65	6,993.06	6,852.76	127.53	36.34	86.22	1,318.67	-922.01	2,720.43	2,640.72	79.71	34.130		
11,300.00	6,908.57	6,991.34	6,851.03	130.27	36.33	86.08	1,318.66	-922.03	2,817.02	2,737.52	79.50	35.436		
11,400.00	6,907.49	6,989.61	6,849.30	133.02	36.33	85.95	1,318.66	-922.04	2,913.84	2,834.54	79.30	36.743		
11,500.00	6,906.41	6,987.88	6,847.57	135.77	36.32	85.81	1,318.65	-922.05	3,010.87	2,931.75	79.12	38.052		
11,600.00	6,905.34	6,986.15	6,845.84	138.52	36.32	85.67	1,318.65	-922.06	3,108.09	3,029.13	78.96	39.363		
11,700.00	6,904.26	6,984.42	6,844.12	141.28	36.31	85.53	1,318.64	-922.07	3,205.47	3,126.66	78.81	40.674		
11,800.00	6,903.18	6,982.69	6,842.39	144.04	36.30	85.40	1,318.64	-922.08	3,303.01	3,224.34	78.67	41.986		
11,900.00	6,902.10	6,980.96	6,840.66	146.80	36.30	85.26	1,318.63	-922.09	3,400.70	3,322.16	78.54	43.298		
12,000.00	6,901.02	6,979.23	6,838.93	149.57	36.29	85.12	1,318.63	-922.10	3,498.51	3,420.09	78.42	44.610		
12,100.00	6,899.94	6,977.50	6,837.20	152.34	36.29	84.98	1,318.62	-922.11	3,596.44	3,518.13	78.31	45.923		
12,200.00	6,898.87	6,975.77	6,835.47	155.11	36.28	84.84	1,318.62	-922.13	3,694.49	3,616.27	78.22	47.235		
12,300.00	6,897.79	6,974.04	6,833.74	157.89	36.27	84.71	1,318.61	-922.14	3,792.63	3,714.51	78.12	48.546		
12,400.00	6,896.71	6,972.31	6,832.01	160.66	36.27	84.57	1,318.61	-922.15	3,890.87	3,812.83	78.04	49.857		
12,500.00	6,895.63	6,970.58	6,830.28	163.44	36.26	84.43	1,318.60	-922.16	3,989.19	3,911.23	77.96	51.167		
12,600.00	6,894.55	6,968.85	6,828.55	166.22	36.26	84.30	1,318.60	-922.17	4,087.60	4,009.70	77.89	52.477		
12,700.00	6,893.47	6,967.12	6,826.82	169.00	36.25	84.16	1,318.59	-922.18	4,186.08	4,108.25	77.83	53.785		
12,800.00	6,892.39	6,965.39	6,825.09	171.79	36.24	84.02	1,318.59	-922.19	4,284.63	4,206.86	77.77	55.092		
12,900.00	6,891.32	6,963.66	6,823.36	174.57	36.24	83.88	1,318.58	-922.20	4,383.24	4,305.52	77.72	56.397		
13,000.00	6,890.24	6,961.93	6,821.63	177.36	36.23	83.75	1,318.58	-922.21	4,481.92	4,404.24	77.67	57.701		
13,100.00	6,889.16	6,960.20	6,819.90	180.15	36.23	83.61	1,318.57	-922.22	4,580.65	4,503.02	77.63	59.004		
13,200.00	6,888.08	6,958.47	6,818.17	182.94	36.22	83.47	1,318.57	-922.24	4,679.44	4,601.84	77.60	60.305		
13,300.00	6,887.00	6,956.74	6,816.44	185.74	36.21	83.34	1,318.56	-922.25	4,778.27	4,700.71	77.56	61.604		
13,400.00	6,885.92	6,955.01	6,814.71	188.53	36.21	83.20	1,318.56	-922.26	4,877.15	4,799.62	77.54	62.902		
13,500.00	6,884.84	6,953.28	6,812.98	191.32	36.20	83.06	1,318.55	-922.27	4,976.08	4,898.57	77.51	64.198		
13,600.00	6,883.77	6,951.55	6,811.25	194.12	36.20	82.93	1,318.55	-922.28	5,075.05	4,997.56	77.49	65.491		
13,700.00	6,882.69	6,949.82	6,809.52	196.92	36.19	82.79	1,318.54	-922.29	5,174.06	5,096.58	77.48	66.783		
13,800.00	6,881.61	6,948.09	6,807.78	199.72	36.18	82.65	1,318.54	-922.30	5,273.10	5,195.64	77.46	68.073		
13,900.00	6,880.53	6,946.36	6,806.05	202.52	36.18	82.52	1,318.53	-922.31	5,372.18	5,294.73	77.45	69.360		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #29-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,879.45	6,944.63	6,804.32	205.32	36.17	82.38	1,318.53	-922.32	5,471.29	5,393.84	77.45	70.645			
14,100.00	6,878.37	6,942.89	6,802.59	208.12	36.17	82.24	1,318.52	-922.34	5,570.43	5,492.99	77.44	71.928			
14,200.00	6,877.29	6,941.16	6,800.86	210.92	36.16	82.11	1,318.52	-922.35	5,669.61	5,592.16	77.44	73.209			
14,300.00	6,876.22	6,939.43	6,799.13	213.73	36.15	81.97	1,318.52	-922.36	5,768.81	5,691.36	77.45	74.488			
14,400.00	6,875.14	6,937.70	6,797.40	216.53	36.15	81.83	1,318.51	-922.37	5,868.03	5,790.58	77.45	75.763			
14,500.00	6,874.06	6,935.97	6,795.67	219.34	36.14	81.70	1,318.51	-922.38	5,967.29	5,889.83	77.46	77.037			
14,600.00	6,872.98	6,934.24	6,793.94	222.15	36.14	81.56	1,318.50	-922.39	6,066.56	5,989.09	77.47	78.308			
14,700.00	6,871.90	6,932.51	6,792.21	224.95	36.13	81.43	1,318.50	-922.40	6,165.86	6,088.38	77.48	79.576			
14,800.00	6,870.82	6,930.78	6,790.48	227.76	36.12	81.29	1,318.49	-922.41	6,265.18	6,187.68	77.50	80.842			
14,900.00	6,869.75	6,929.05	6,788.75	230.57	36.12	81.16	1,318.49	-922.42	6,364.53	6,287.01	77.52	82.105			
15,000.00	6,868.67	6,927.32	6,787.02	233.38	36.11	81.02	1,318.48	-922.44	6,463.89	6,386.35	77.54	83.365			
15,100.00	6,867.59	6,925.59	6,785.28	236.19	36.11	80.89	1,318.48	-922.45	6,563.27	6,485.71	77.56	84.623			
15,200.00	6,866.51	6,923.85	6,783.55	239.00	36.10	80.75	1,318.47	-922.46	6,662.67	6,585.08	77.58	85.878			
15,300.00	6,865.43	6,922.12	6,781.82	241.81	36.09	80.61	1,318.47	-922.47	6,762.08	6,684.47	77.61	87.130			
15,400.00	6,864.35	6,920.39	6,780.09	244.63	36.09	80.48	1,318.46	-922.48	6,861.52	6,783.88	77.64	88.379			
15,500.00	6,863.27	6,918.66	6,778.36	247.44	36.08	80.34	1,318.46	-922.49	6,960.96	6,883.30	77.67	89.625			
15,600.00	6,862.20	6,916.93	6,776.63	250.25	36.08	80.21	1,318.45	-922.50	7,060.43	6,982.73	77.70	90.869			
15,618.10	6,862.00	6,916.62	6,776.32	250.76	36.08	80.19	1,318.45	-922.50	7,078.43	7,000.72	77.71	91.093			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #3-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	-73.98	273.25	-951.47	990.66						
100.00	100.00	57.68	57.68	3.28	3.29	-73.98	273.30	-951.55	990.03	983.46	6.57	150.640			
200.00	200.00	148.27	148.26	3.34	3.34	-73.96	273.75	-952.28	990.94	984.27	6.68	148.427			
300.00	299.98	267.69	267.66	3.44	3.47	-125.83	275.63	-952.58	992.70	985.78	6.91	143.570			
400.00	399.84	433.20	432.74	3.61	3.77	-125.70	283.07	-944.14	992.23	984.83	7.40	134.011			
500.00	499.45	549.17	548.00	3.81	4.06	-125.70	289.19	-932.81	989.42	981.52	7.90	125.271			
600.00	598.70	660.58	658.43	4.06	4.40	-125.80	295.73	-919.66	986.77	978.31	8.47	116.539			
689.79	687.41	750.89	747.72	4.32	4.72	-125.87	303.12	-908.31	986.10	977.09	9.01	109.431			
700.00	697.47	761.80	758.47	4.35	4.76	-125.87	304.23	-906.86	986.11	977.03	9.08	108.619			
800.00	795.62	866.24	861.11	4.66	5.18	-125.87	316.67	-892.11	987.01	977.23	9.78	100.899			
900.00	893.06	1,004.38	995.93	5.01	5.82	-125.87	336.06	-869.24	988.29	977.55	10.73	92.066			
961.44	952.51	1,089.72	1,078.20	5.25	6.28	-125.82	350.04	-851.38	987.73	976.35	11.38	86.825			
1,000.00	989.71	1,133.12	1,119.93	5.40	6.52	-125.81	357.08	-841.75	987.16	975.42	11.74	84.089			
1,100.00	1,086.20	1,264.00	1,245.45	5.81	7.31	-125.80	377.16	-810.58	983.85	971.03	12.82	76.762			
1,200.00	1,182.69	1,363.16	1,340.21	6.24	7.95	-125.79	391.98	-785.40	978.87	965.10	13.77	71.107			
1,300.00	1,279.18	1,454.39	1,427.32	6.69	8.56	-125.73	406.51	-762.58	974.53	959.82	14.71	66.253			
1,400.00	1,375.67	1,551.48	1,519.97	7.15	9.22	-125.62	423.07	-738.73	970.93	955.20	15.72	61.751			
1,500.00	1,472.15	1,659.71	1,622.73	7.62	9.99	-125.38	443.11	-711.28	966.95	950.10	16.84	57.414			
1,600.00	1,568.64	1,763.05	1,720.86	8.10	10.74	-125.19	461.31	-684.52	962.20	944.25	17.95	53.606			
1,700.00	1,665.13	1,884.48	1,835.94	8.59	11.65	-124.97	482.23	-651.89	956.43	937.26	19.18	49.877			
1,800.00	1,761.62	1,960.59	1,908.24	9.08	12.22	-124.86	495.02	-631.86	950.97	930.81	20.16	47.172			
1,900.00	1,858.11	2,050.39	1,993.77	9.58	12.88	-124.73	510.58	-609.34	946.97	925.74	21.23	44.614			
2,000.00	1,954.60	2,155.49	2,093.75	10.08	13.67	-124.53	529.36	-582.90	943.06	920.66	22.40	42.102			
2,100.00	2,051.09	2,251.77	2,185.50	10.59	14.39	-124.39	546.07	-559.02	939.35	915.83	23.52	39.932			
2,200.00	2,147.57	2,357.75	2,286.49	11.09	15.18	-124.24	564.20	-532.46	935.33	910.63	24.70	37.862			
2,300.00	2,244.06	2,447.68	2,372.58	11.61	15.83	-124.22	577.86	-510.33	931.24	905.46	25.78	36.123			
2,400.00	2,340.55	2,544.58	2,465.42	12.12	16.54	-124.15	593.82	-487.68	928.67	901.77	26.90	34.521			
2,500.00	2,437.04	2,677.22	2,591.90	12.64	17.53	-124.01	615.48	-454.11	924.26	896.03	28.23	32.740			
2,600.00	2,533.53	2,766.70	2,676.82	13.15	18.23	-123.87	630.40	-430.19	918.49	889.13	29.36	31.286			
2,700.00	2,630.02	2,849.42	2,755.71	13.67	18.86	-123.78	644.08	-409.43	914.26	883.82	30.44	30.037			
2,800.00	2,726.50	2,953.96	2,855.93	14.19	19.62	-123.79	659.51	-384.00	910.26	878.67	31.60	28.810			
2,900.00	2,822.99	3,038.11	2,936.95	14.72	20.22	-123.86	671.23	-364.49	907.15	874.52	32.63	27.804			
2,998.83	2,918.35	3,117.08	3,013.48	15.23	20.74	-124.01	681.51	-348.01	906.03	872.44	33.59	26.976			
3,000.00	2,919.48	3,117.94	3,014.32	15.24	20.75	-124.01	681.62	-347.84	906.03	872.43	33.60	26.967			
3,100.00	3,015.97	3,191.93	3,086.58	15.76	21.20	-124.25	690.43	-334.65	907.50	873.02	34.48	26.321			
3,200.00	3,112.46	3,272.91	3,166.14	16.29	21.66	-124.60	699.39	-322.51	911.49	876.14	35.35	25.787			
3,300.00	3,208.95	3,349.46	3,241.68	16.81	22.06	-124.99	707.30	-312.96	917.74	881.61	36.14	25.395			
3,400.00	3,305.44	3,432.74	3,324.20	17.34	22.47	-125.51	715.08	-304.82	926.37	889.44	36.93	25.085			
3,500.00	3,401.92	3,517.45	3,408.37	17.87	22.84	-126.12	721.76	-298.13	936.54	898.85	37.68	24.853			
3,600.00	3,498.41	3,602.69	3,493.33	18.40	23.18	-126.86	726.65	-293.25	948.40	910.01	38.39	24.707			
3,700.00	3,594.90	3,689.99	3,580.51	18.93	23.50	-127.75	729.58	-289.88	961.70	922.65	39.05	24.628			
3,800.00	3,691.39	3,786.03	3,676.51	19.46	23.82	-128.84	730.72	-287.45	976.11	936.37	39.74	24.563			
3,900.00	3,787.88	3,869.16	3,759.62	19.99	24.08	-129.77	731.37	-285.53	991.05	950.74	40.32	24.581			
4,000.00	3,884.37	3,952.43	3,842.88	20.52	24.34	-130.72	731.85	-285.52	1,008.40	967.52	40.88	24.667			
4,100.00	3,980.85	4,049.87	3,940.32	21.05	24.63	-131.79	732.43	-285.63	1,026.28	984.72	41.57	24.691			
4,200.00	4,077.34	4,145.37	4,035.81	21.58	24.93	-132.77	733.53	-285.77	1,044.62	1,002.36	42.25	24.723			
4,300.00	4,173.83	4,241.63	4,132.06	22.11	25.23	-133.70	735.29	-285.87	1,063.29	1,020.33	42.97	24.747			
4,390.25	4,260.91	4,325.49	4,215.90	22.59	25.50	-134.48	736.88	-286.08	1,080.51	1,036.92	43.59	24.788			
4,400.00	4,270.32	4,334.43	4,224.84	22.64	25.53	-134.58	737.07	-286.11	1,082.39	1,038.74	43.66	24.793			
4,500.00	4,367.33	4,429.80	4,320.19	23.16	25.84	-135.60	739.27	-286.65	1,100.62	1,056.24	44.38	24.801			
4,600.00	4,465.13	4,524.63	4,414.99	23.65	26.15	-136.45	741.22	-287.37	1,116.72	1,071.63	45.09	24.767			
4,700.00	4,563.60	4,621.02	4,511.36	24.12	26.45	-137.15	742.97	-288.37	1,130.69	1,084.88	45.81	24.682			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - WIEDEMAN #3-5 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 16-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,800.00	4,662.61	4,716.69	4,607.01	24.56	26.76	-137.69	744.66	-289.60	1,142.43	1,095.91	46.52	24.556		
4,900.00	4,762.05	4,819.00	4,709.30	24.98	27.08	-138.12	745.95	-291.06	1,151.76	1,104.47	47.29	24.354		
5,000.00	4,861.80	4,951.86	4,842.15	25.38	27.50	-138.53	745.24	-291.26	1,157.23	1,108.93	48.31	23.956		
5,100.00	4,961.73	5,058.44	4,948.69	25.76	27.84	-138.76	743.17	-289.04	1,157.68	1,108.60	49.07	23.590		
5,151.69	5,013.42	5,107.43	4,997.66	25.95	28.00	-86.91	742.40	-288.07	1,156.97	1,107.55	49.43	23.409		
5,200.00	5,061.73	5,152.94	5,043.16	26.13	28.15	-86.93	741.83	-287.28	1,156.10	1,106.35	49.75	23.238		
5,300.00	5,161.73	5,243.86	5,134.07	26.49	28.45	-86.97	741.03	-286.14	1,154.80	1,104.40	50.40	22.912		
5,400.00	5,261.73	5,344.95	5,235.15	26.86	28.78	-87.01	740.14	-285.29	1,153.91	1,102.77	51.14	22.562		
5,500.00	5,361.73	5,451.77	5,341.95	27.23	29.14	-87.04	739.55	-283.78	1,152.46	1,100.51	51.95	22.184		
5,600.00	5,461.73	5,544.20	5,434.38	27.60	29.47	-87.04	739.41	-282.59	1,151.17	1,098.53	52.64	21.869		
5,700.00	5,561.73	5,637.00	5,527.18	27.97	29.79	-87.01	739.99	-282.08	1,150.65	1,097.31	53.34	21.571		
5,800.00	5,661.73	5,733.65	5,623.82	28.35	30.14	-86.95	741.24	-281.80	1,150.43	1,096.34	54.09	21.268		
5,801.33	5,663.06	5,734.89	5,625.06	28.35	30.15	-86.95	741.26	-281.80	1,150.43	1,096.33	54.10	21.264		
5,900.00	5,761.73	5,829.07	5,719.23	28.72	30.49	-86.86	742.98	-281.94	1,150.68	1,095.84	54.84	20.984		
6,000.00	5,861.73	5,924.75	5,814.88	29.10	30.83	-86.78	744.76	-282.35	1,151.20	1,095.62	55.58	20.712		
6,100.00	5,961.73	6,020.04	5,910.16	29.48	31.16	-86.72	745.99	-283.24	1,152.21	1,095.90	56.31	20.461		
6,200.00	6,061.73	6,122.99	6,013.10	29.86	31.50	-86.75	745.40	-284.45	1,153.35	1,096.26	57.09	20.202		
6,300.00	6,161.73	6,242.96	6,133.05	30.25	31.90	-86.84	743.52	-284.72	1,153.51	1,095.49	58.02	19.882		
6,382.61	6,244.33	6,316.24	6,206.33	30.56	32.15	-86.88	742.68	-284.62	1,153.33	1,094.77	58.56	19.695		
6,400.00	6,261.73	6,331.20	6,221.29	30.63	32.20	-86.89	742.59	-284.65	1,153.35	1,094.68	58.67	19.659		
6,451.69	6,313.42	6,375.70	6,265.79	30.83	32.35	-86.90	742.44	-284.89	1,153.62	1,094.62	58.99	19.555		
6,500.00	6,361.68	6,418.56	6,308.64	31.01	32.50	5.58	742.48	-285.36	1,152.33	1,093.03	59.30	19.431		
6,550.00	6,411.34	6,465.27	6,355.35	31.20	32.66	5.66	742.60	-286.03	1,147.33	1,087.69	59.64	19.239		
6,600.00	6,460.39	6,512.59	6,402.67	31.38	32.82	5.79	742.78	-286.81	1,138.58	1,078.61	59.97	18.986		
6,650.00	6,508.54	6,560.73	6,450.80	31.58	32.99	6.00	743.16	-287.63	1,126.04	1,065.73	60.31	18.670		
6,700.00	6,555.48	6,606.12	6,496.18	31.78	33.15	6.28	743.72	-288.42	1,109.80	1,049.18	60.62	18.306		
6,750.00	6,600.93	6,648.79	6,538.84	31.98	33.30	6.65	744.38	-289.26	1,090.05	1,029.14	60.91	17.897		
6,800.00	6,644.61	6,690.20	6,580.22	32.20	33.45	7.12	745.16	-290.18	1,066.91	1,005.73	61.18	17.439		
6,850.00	6,686.25	6,730.16	6,620.17	32.44	33.60	7.71	746.06	-291.16	1,040.50	979.06	61.44	16.935		
6,900.00	6,725.58	6,768.36	6,658.34	32.68	33.73	8.47	747.06	-292.16	1,010.97	949.28	61.69	16.387		
6,950.00	6,762.38	6,805.45	6,695.39	32.96	33.87	9.44	748.14	-293.17	978.47	916.52	61.94	15.796		
7,000.00	6,796.41	6,839.89	6,729.81	33.25	33.99	10.68	749.23	-294.12	943.17	880.99	62.18	15.168		
7,050.00	6,827.46	6,874.15	6,764.04	33.58	34.12	12.33	750.37	-295.04	905.27	842.83	62.44	14.499		
7,100.00	6,855.34	6,906.51	6,796.37	33.93	34.24	14.55	751.42	-295.79	864.91	802.21	62.70	13.795		
7,150.00	6,879.88	6,934.82	6,824.66	34.33	34.34	17.55	752.30	-296.35	822.38	759.45	62.94	13.067		
7,200.00	6,900.93	6,956.61	6,846.44	34.76	34.42	21.55	752.98	-296.72	778.02	714.89	63.14	12.323		
7,250.00	6,918.36	6,973.84	6,863.66	35.23	34.49	27.15	753.54	-297.03	732.19	668.88	63.32	11.564		
7,300.00	6,932.05	6,987.65	6,877.45	35.74	34.54	35.28	754.00	-297.30	685.19	621.69	63.50	10.790		
7,350.00	6,941.94	6,997.91	6,887.71	36.29	34.58	47.11	754.35	-297.51	637.32	573.62	63.70	10.005		
7,400.00	6,947.94	7,004.54	6,894.33	36.87	34.60	63.44	754.59	-297.64	588.91	524.99	63.92	9.213		
7,450.00	6,950.04	7,007.47	6,897.26	37.47	34.61	82.61	754.69	-297.70	540.27	476.10	64.17	8.419		
7,458.56	6,950.00	7,007.60	6,897.39	37.58	34.61	85.85	754.69	-297.71	531.95	467.73	64.22	8.283		
7,500.00	6,949.56	7,007.95	6,897.73	38.11	34.61	86.01	754.71	-297.71	491.76	427.29	64.48	7.627		
7,600.00	6,948.48	7,008.79	6,898.57	39.51	34.62	86.40	754.74	-297.73	395.86	330.48	65.38	6.054		
7,700.00	6,947.40	7,009.64	6,899.42	41.06	34.62	86.79	754.77	-297.75	302.62	235.56	67.05	4.513		
7,800.00	6,946.32	7,010.50	6,900.28	42.74	34.62	87.18	754.80	-297.77	215.51	145.04	70.48	3.058		
7,900.00	6,945.24	7,011.37	6,901.16	44.55	34.63	87.58	754.83	-297.79	146.00	68.98	77.01	1.896		
7,975.67	6,944.43	7,012.04	6,901.82	46.00	34.63	87.89	754.85	-297.80	124.86	45.31	79.56	1.569	CC, ES, SF	
8,000.00	6,944.16	7,012.25	6,902.04	46.46	34.63	87.99	754.86	-297.80	127.21	48.88	78.34	1.624		
8,100.00	6,943.08	7,013.15	6,902.93	48.47	34.63	88.40	754.89	-297.82	176.21	106.37	69.84	2.523		
8,200.00	6,942.01	7,014.05	6,903.83	50.55	34.64	88.81	754.93	-297.84	256.73	191.36	65.37	3.927		
8,300.00	6,940.93	7,014.97	6,904.75	52.71	34.64	89.23	754.96	-297.86	347.53	283.88	63.65	5.460		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #3-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,400.00	6,939.85	7,015.90	6,905.68	54.93	34.64	89.66	754.99	-297.88	442.31	379.38	62.92	7.029			
8,500.00	6,938.77	7,016.84	6,906.62	57.20	34.65	90.09	755.03	-297.90	538.98	476.39	62.58	8.612			
8,600.00	6,937.69	7,017.79	6,907.57	59.53	34.65	90.52	755.06	-297.92	636.67	574.26	62.41	10.201			
8,700.00	6,936.61	7,018.75	6,908.53	61.89	34.65	90.96	755.10	-297.94	734.99	672.66	62.32	11.793			
8,800.00	6,935.54	7,019.73	6,909.51	64.30	34.66	91.41	755.13	-297.97	833.70	771.42	62.28	13.386			
8,900.00	6,934.46	7,020.72	6,910.49	66.74	34.66	91.86	755.17	-297.99	932.69	870.43	62.27	14.979			
9,000.00	6,933.38	7,021.72	6,911.50	69.21	34.67	92.32	755.21	-298.01	1,031.87	969.61	62.27	16.572			
9,100.00	6,932.30	7,022.74	6,912.51	71.71	34.67	92.78	755.24	-298.03	1,131.20	1,068.92	62.28	18.164			
9,200.00	6,931.22	7,023.76	6,913.54	74.23	34.67	93.25	755.28	-298.05	1,230.63	1,168.34	62.29	19.756			
9,300.00	6,930.14	7,024.81	6,914.58	76.78	34.68	93.73	755.32	-298.08	1,330.15	1,267.84	62.31	21.346			
9,400.00	6,929.06	7,025.86	6,915.64	79.34	34.68	94.21	755.36	-298.10	1,429.73	1,367.40	62.34	22.935			
9,500.00	6,927.99	7,026.94	6,916.71	81.93	34.68	94.69	755.40	-298.12	1,529.37	1,467.01	62.37	24.522			
9,600.00	6,926.91	7,028.02	6,917.79	84.53	34.69	95.18	755.44	-298.15	1,629.05	1,566.66	62.40	26.108			
9,700.00	6,925.83	7,029.12	6,918.89	87.14	34.69	95.68	755.48	-298.17	1,728.77	1,666.35	62.43	27.692			
9,800.00	6,924.75	7,030.24	6,920.01	89.77	34.70	96.18	755.52	-298.20	1,828.52	1,766.06	62.46	29.275			
9,900.00	6,923.67	7,031.37	6,921.14	92.41	34.70	96.69	755.56	-298.22	1,928.29	1,865.80	62.50	30.855			
10,000.00	6,922.59	7,032.52	6,922.28	95.07	34.71	97.20	755.61	-298.25	2,028.09	1,965.56	62.53	32.433			
10,100.00	6,921.51	7,033.68	6,923.45	97.73	34.71	97.72	755.65	-298.28	2,127.90	2,065.34	62.57	34.010			
10,200.00	6,920.44	7,034.86	6,924.63	100.40	34.71	98.24	755.70	-298.30	2,227.73	2,165.13	62.61	35.584			
10,300.00	6,919.36	7,036.06	6,925.82	103.08	34.72	98.77	755.74	-298.33	2,327.58	2,264.93	62.64	37.155			
10,400.00	6,918.28	7,037.28	6,927.04	105.77	34.72	99.31	755.79	-298.36	2,427.43	2,364.75	62.69	38.724			
10,500.00	6,917.20	7,038.51	6,928.27	108.47	34.73	99.85	755.83	-298.39	2,527.30	2,464.58	62.73	40.291			
10,600.00	6,916.12	7,039.76	6,929.52	111.18	34.73	100.40	755.88	-298.42	2,627.18	2,564.41	62.77	41.855			
10,700.00	6,915.04	7,041.03	6,930.79	113.89	34.74	100.95	755.93	-298.44	2,727.06	2,664.25	62.81	43.417			
10,800.00	6,913.96	7,042.32	6,932.07	116.61	34.74	101.51	755.98	-298.47	2,826.96	2,764.10	62.86	44.975			
10,900.00	6,912.89	7,043.62	6,933.38	119.33	34.75	102.08	756.03	-298.51	2,926.86	2,863.96	62.90	46.531			
11,000.00	6,911.81	7,044.95	6,934.71	122.06	34.75	102.65	756.08	-298.54	3,026.76	2,963.82	62.95	48.084			
11,100.00	6,910.73	7,046.30	6,936.05	124.79	34.76	103.22	756.13	-298.57	3,126.68	3,063.68	62.99	49.634			
11,200.00	6,909.65	7,047.67	6,937.42	127.53	34.76	103.81	756.19	-298.60	3,226.59	3,163.55	63.04	51.181			
11,300.00	6,908.57	7,049.06	6,938.81	130.27	34.77	104.40	756.24	-298.63	3,326.52	3,263.43	63.09	52.724			
11,400.00	6,907.49	7,050.46	6,940.21	133.02	34.77	105.00	756.29	-298.66	3,426.45	3,363.31	63.14	54.265			
11,500.00	6,906.41	7,046.73	6,936.48	135.77	34.76	103.41	756.15	-298.57	3,526.38	3,463.19	63.19	55.803			
11,600.00	6,905.34	7,047.69	6,937.44	138.52	34.76	103.81	756.19	-298.59	3,626.31	3,563.07	63.25	57.337			
11,700.00	6,904.26	7,048.65	6,938.40	141.28	34.77	104.22	756.23	-298.61	3,726.25	3,662.95	63.30	58.868			
11,800.00	6,903.18	7,049.60	6,939.35	144.04	34.77	104.62	756.26	-298.63	3,826.19	3,762.84	63.35	60.396			
11,900.00	6,902.10	7,050.56	6,940.31	146.80	34.77	105.02	756.30	-298.65	3,926.14	3,862.73	63.41	61.920			
12,000.00	6,901.02	7,051.51	6,941.26	149.57	34.78	105.42	756.34	-298.68	4,026.08	3,962.62	63.46	63.440			
12,100.00	6,899.94	7,052.47	6,942.21	152.34	34.78	105.82	756.38	-298.70	4,126.03	4,062.51	63.52	64.958			
12,200.00	6,898.87	7,053.42	6,943.16	155.11	34.78	106.21	756.41	-298.72	4,225.98	4,162.40	63.58	66.471			
12,300.00	6,897.79	7,054.37	6,944.11	157.89	34.79	106.60	756.45	-298.74	4,325.93	4,262.30	63.63	67.981			
12,400.00	6,896.71	7,055.32	6,945.06	160.66	34.79	106.99	756.49	-298.76	4,425.89	4,362.19	63.69	69.487			
12,500.00	6,895.63	7,056.27	6,946.01	163.44	34.80	107.38	756.53	-298.78	4,525.84	4,462.09	63.75	70.989			
12,600.00	6,894.55	7,057.22	6,946.96	166.22	34.80	107.76	756.56	-298.80	4,625.80	4,561.99	63.82	72.487			
12,700.00	6,893.47	7,058.16	6,947.90	169.00	34.80	108.15	756.60	-298.82	4,725.76	4,661.88	63.88	73.982			
12,800.00	6,892.39	7,059.11	6,948.85	171.79	34.81	108.53	756.64	-298.85	4,825.72	4,761.78	63.94	75.472			
12,900.00	6,891.32	7,060.05	6,949.79	174.57	34.81	108.90	756.68	-298.87	4,925.68	4,861.68	64.00	76.958			
13,000.00	6,890.24	7,060.99	6,950.73	177.36	34.81	109.28	756.71	-298.89	5,025.65	4,961.58	64.07	78.441			
13,100.00	6,889.16	7,061.93	6,951.67	180.15	34.82	109.65	756.75	-298.91	5,125.61	5,061.48	64.14	79.919			
13,200.00	6,888.08	7,062.87	6,952.61	182.94	34.82	110.02	756.79	-298.93	5,225.58	5,161.38	64.20	81.393			
13,300.00	6,887.00	7,063.81	6,953.55	185.74	34.82	110.39	756.83	-298.95	5,325.55	5,261.28	64.27	82.863			
13,400.00	6,885.92	7,064.75	6,954.48	188.53	34.83	110.75	756.87	-298.97	5,425.51	5,361.18	64.34	84.329			
13,500.00	6,884.84	7,065.69	6,955.42	191.32	34.83	111.12	756.90	-298.99	5,525.48	5,461.08	64.41	85.790			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - WIEDEMAN #3-5 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 16-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,600.00	6,883.77	7,066.62	6,956.35	194.12	34.83	111.48	756.94	-299.01	5,625.45	5,560.98	64.48	87.247		
13,700.00	6,882.69	7,067.55	6,957.28	196.92	34.84	111.83	756.98	-299.03	5,725.42	5,660.88	64.55	88.699		
13,800.00	6,881.61	7,068.49	6,958.21	199.72	34.84	112.19	757.02	-299.06	5,825.40	5,760.78	64.62	90.148		
13,900.00	6,880.53	7,069.42	6,959.14	202.52	34.84	112.54	757.06	-299.08	5,925.37	5,860.68	64.69	91.591		
14,000.00	6,879.45	7,070.35	6,960.07	205.32	34.85	112.89	757.09	-299.10	6,025.34	5,960.57	64.77	93.031		
14,100.00	6,878.37	7,071.28	6,961.00	208.12	34.85	113.24	757.13	-299.12	6,125.32	6,060.47	64.84	94.466		
14,200.00	6,877.29	7,072.20	6,961.93	210.92	34.86	113.59	757.17	-299.14	6,225.29	6,160.37	64.92	95.896		
14,300.00	6,876.22	7,073.13	6,962.85	213.73	34.86	113.93	757.21	-299.16	6,325.27	6,260.27	64.99	97.321		
14,400.00	6,875.14	7,074.05	6,963.78	216.53	34.86	114.27	757.25	-299.18	6,425.24	6,360.17	65.07	98.742		
14,500.00	6,874.06	7,074.98	6,964.70	219.34	34.87	114.61	757.28	-299.20	6,525.22	6,460.07	65.15	100.159		
14,600.00	6,872.98	7,075.90	6,965.62	222.15	34.87	114.94	757.32	-299.22	6,625.20	6,559.97	65.23	101.570		
14,700.00	6,871.90	7,076.82	6,966.54	224.95	34.87	115.27	757.36	-299.24	6,725.17	6,659.87	65.31	102.977		
14,800.00	6,870.82	7,077.74	6,967.46	227.76	34.88	115.60	757.40	-299.26	6,825.15	6,759.76	65.39	104.379		
14,900.00	6,869.75	7,078.66	6,968.38	230.57	34.88	115.93	757.44	-299.28	6,925.13	6,859.66	65.47	105.777		
15,000.00	6,868.67	7,079.58	6,969.29	233.38	34.88	116.26	757.48	-299.30	7,025.11	6,959.56	65.55	107.169		
15,100.00	6,867.59	7,080.49	6,970.21	236.19	34.89	116.58	757.51	-299.32	7,125.09	7,059.46	65.63	108.557		
15,200.00	6,866.51	7,081.41	6,971.12	239.00	34.89	116.90	757.55	-299.34	7,225.07	7,159.35	65.72	109.940		
15,300.00	6,865.43	7,082.32	6,972.04	241.81	34.89	117.22	757.59	-299.36	7,325.05	7,259.25	65.80	111.318		
15,400.00	6,864.35	7,083.24	6,972.95	244.63	34.90	117.54	757.63	-299.38	7,425.03	7,359.14	65.89	112.691		
15,500.00	6,863.27	7,084.15	6,973.86	247.44	34.90	117.85	757.67	-299.40	7,525.01	7,459.04	65.97	114.060		
15,600.00	6,862.20	7,085.06	6,974.77	250.25	34.90	118.16	757.71	-299.43	7,625.00	7,558.93	66.06	115.423		
15,618.10	6,862.00	7,085.22	6,974.93	250.76	34.90	118.22	757.71	-299.43	7,643.09	7,577.01	66.08	115.669		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #4-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	-73.20	288.55	-955.65	999.06						
100.00	100.00	56.43	56.43	3.28	3.29	-73.19	288.65	-955.69	998.34	991.77	6.57	151.914			
200.00	200.00	148.30	148.29	3.34	3.34	-73.15	289.59	-956.14	999.10	992.43	6.68	149.662			
300.00	299.98	246.05	246.02	3.44	3.44	-124.99	291.50	-956.92	1,001.43	994.54	6.89	145.379			
400.00	399.84	330.40	330.33	3.61	3.57	-125.01	293.78	-958.10	1,006.56	999.38	7.18	140.139			
500.00	499.45	403.22	403.06	3.81	3.71	-125.04	296.58	-960.40	1,015.74	1,008.20	7.54	134.659			
600.00	598.70	476.81	476.42	4.06	3.88	-125.06	300.74	-964.46	1,029.63	1,021.66	7.97	129.184			
700.00	697.47	550.94	550.15	4.35	4.08	-125.09	306.07	-969.92	1,047.77	1,039.32	8.45	123.962			
800.00	795.62	622.03	620.68	4.66	4.29	-125.14	311.68	-976.83	1,070.34	1,061.37	8.97	119.285			
900.00	893.06	698.96	696.82	5.01	4.54	-125.26	317.95	-985.86	1,096.95	1,087.41	9.54	114.963			
961.44	952.51	746.34	743.62	5.25	4.71	-125.36	322.00	-992.03	1,115.13	1,105.22	9.91	112.521			
1,000.00	989.71	776.37	773.25	5.40	4.83	-125.61	324.74	-996.13	1,127.08	1,116.94	10.15	111.077			
1,100.00	1,086.20	863.01	858.64	5.81	5.17	-126.33	332.80	-1,008.35	1,158.70	1,147.90	10.80	107.282			
1,200.00	1,182.69	930.31	924.87	6.24	5.46	-126.89	338.76	-1,018.73	1,191.70	1,180.29	11.41	104.420			
1,300.00	1,279.18	982.00	975.53	6.69	5.69	-127.37	342.49	-1,028.23	1,227.42	1,215.45	11.97	102.542			
1,400.00	1,375.67	1,040.76	1,032.78	7.15	5.98	-127.90	346.75	-1,040.76	1,266.02	1,253.46	12.55	100.850			
1,500.00	1,472.15	1,096.00	1,086.16	7.62	6.27	-128.35	351.57	-1,054.11	1,307.51	1,294.39	13.12	99.662			
1,600.00	1,568.64	1,158.00	1,145.67	8.10	6.62	-128.83	357.53	-1,070.47	1,351.30	1,337.59	13.72	98.504			
1,700.00	1,665.13	1,249.75	1,233.51	8.59	7.18	-129.50	366.40	-1,095.45	1,396.08	1,381.59	14.49	96.351			
1,800.00	1,761.62	1,316.69	1,297.48	9.08	7.61	-129.95	373.14	-1,113.95	1,441.41	1,426.28	15.13	95.253			
1,900.00	1,858.11	1,429.88	1,405.42	9.58	8.36	-130.55	387.16	-1,145.00	1,487.06	1,470.98	16.09	92.446			
2,000.00	1,954.60	1,487.29	1,460.04	10.08	8.77	-130.80	395.32	-1,160.66	1,532.74	1,516.05	16.70	91.806			
2,100.00	2,051.09	1,555.81	1,524.89	10.59	9.26	-131.07	405.41	-1,180.33	1,579.89	1,562.51	17.38	90.884			
2,200.00	2,147.57	1,646.30	1,610.27	11.09	9.94	-131.38	419.42	-1,206.83	1,627.74	1,609.49	18.25	89.214			
2,300.00	2,244.06	1,762.94	1,720.59	11.61	10.83	-131.70	438.79	-1,239.35	1,674.46	1,655.13	19.33	86.635			
2,400.00	2,340.55	1,881.23	1,832.84	12.12	11.72	-131.94	459.83	-1,270.20	1,719.71	1,699.27	20.45	84.113			
2,500.00	2,437.04	1,973.16	1,920.24	12.64	12.40	-132.11	476.27	-1,293.48	1,764.30	1,742.93	21.37	82.561			
2,600.00	2,533.53	2,069.50	2,012.09	13.15	13.12	-132.29	493.00	-1,317.24	1,808.19	1,785.85	22.34	80.955			
2,700.00	2,630.02	2,137.00	2,076.27	13.67	13.64	-132.41	504.84	-1,334.48	1,852.91	1,829.84	23.07	80.305			
2,800.00	2,726.50	2,245.71	2,179.75	14.19	14.46	-132.62	523.41	-1,362.15	1,897.53	1,873.38	24.16	78.555			
2,900.00	2,822.99	2,319.55	2,250.18	14.72	15.02	-132.78	535.03	-1,381.01	1,942.11	1,917.17	24.95	77.848			
3,000.00	2,919.48	2,392.96	2,320.01	15.24	15.59	-132.93	546.93	-1,400.30	1,987.43	1,961.69	25.74	77.215			
3,100.00	3,015.97	2,483.72	2,406.09	15.76	16.31	-133.08	562.61	-1,424.37	2,033.11	2,006.42	26.69	76.176			
3,200.00	3,112.46	2,552.70	2,471.35	16.29	16.86	-133.16	575.27	-1,442.79	2,079.10	2,051.64	27.46	75.718			
3,300.00	3,208.95	2,625.23	2,539.46	16.81	17.47	-133.19	590.41	-1,462.61	2,125.94	2,097.67	28.27	75.200			
3,400.00	3,305.44	3,043.36	2,936.60	17.34	20.63	-133.17	681.37	-1,553.28	2,173.18	2,141.16	32.02	67.868			
3,500.00	3,401.92	3,243.97	3,134.10	17.87	21.69	-133.57	708.22	-1,575.56	2,203.80	2,170.16	33.64	65.511			
3,600.00	3,498.41	3,475.16	3,364.13	18.40	22.68	-134.39	723.55	-1,591.91	2,230.70	2,195.47	35.23	63.313			
3,700.00	3,594.90	3,622.10	3,510.92	18.93	23.18	-135.03	726.87	-1,597.00	2,253.46	2,217.15	36.31	62.057			
3,800.00	3,691.39	3,726.06	3,614.87	19.46	23.48	-135.56	725.89	-1,598.68	2,273.96	2,236.77	37.20	61.134			
3,900.00	3,787.88	3,837.57	3,726.35	19.99	23.80	-136.12	724.49	-1,600.26	2,294.43	2,256.33	38.10	60.219			
4,000.00	3,884.37	3,930.97	3,819.74	20.52	24.06	-136.59	723.11	-1,601.34	2,314.79	2,275.85	38.94	59.445			
4,100.00	3,980.85	4,016.96	3,905.71	21.05	24.31	-137.02	721.49	-1,602.47	2,335.45	2,295.70	39.75	58.752			
4,200.00	4,077.34	4,090.00	3,978.71	21.58	24.53	-137.38	719.96	-1,604.15	2,357.15	2,316.64	40.51	58.186			
4,300.00	4,173.83	4,262.46	4,151.12	22.11	25.06	-138.18	718.35	-1,607.03	2,379.07	2,337.41	41.66	57.107			
4,390.25	4,260.91	4,352.96	4,241.62	22.59	25.34	-138.54	719.25	-1,606.22	2,396.30	2,353.85	42.45	56.450			
4,400.00	4,270.32	4,362.45	4,251.10	22.64	25.37	-138.60	719.39	-1,606.13	2,398.15	2,355.62	42.53	56.382			
4,500.00	4,367.33	4,456.87	4,345.51	23.16	25.66	-139.17	720.80	-1,605.28	2,415.82	2,372.44	43.38	55.685			
4,600.00	4,465.13	4,541.86	4,430.49	23.65	25.94	-139.62	722.19	-1,604.85	2,431.34	2,387.16	44.18	55.031			
4,700.00	4,563.60	4,645.00	4,533.61	24.12	26.28	-140.02	724.14	-1,604.36	2,444.32	2,399.28	45.04	54.273			
4,800.00	4,662.61	4,759.12	4,647.72	24.56	26.65	-140.35	725.74	-1,604.01	2,454.89	2,408.97	45.91	53.468			
4,900.00	4,762.05	4,873.26	4,761.83	24.98	26.99	-140.63	724.91	-1,602.05	2,461.22	2,414.47	46.75	52.648			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - WIEDEMAN #4-5 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 16-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,960.73	4,849.29	25.38	27.26	-140.79	724.29	-1,600.87	2,465.31	2,417.84	47.47	51.937		
5,100.00	4,961.73	5,045.56	4,934.13	25.76	27.52	-140.86	724.10	-1,600.18	2,467.24	2,419.08	48.16	51.229		
5,151.69	5,013.42	5,090.38	4,978.94	25.95	27.67	-88.98	724.07	-1,600.02	2,467.42	2,418.90	48.52	50.856		
5,200.00	5,061.73	5,133.47	5,022.04	26.13	27.81	-88.98	724.08	-1,599.97	2,467.37	2,418.51	48.86	50.502		
5,202.85	5,064.58	5,136.02	5,024.58	26.14	27.82	-88.98	724.08	-1,599.97	2,467.37	2,418.49	48.88	50.482		
5,300.00	5,161.73	5,218.19	5,106.76	26.49	28.10	-88.97	724.28	-1,600.20	2,467.64	2,418.09	49.55	49.804		
5,400.00	5,261.73	5,311.78	5,200.34	26.86	28.43	-88.96	724.71	-1,600.95	2,468.45	2,418.17	50.28	49.092		
5,500.00	5,361.73	5,395.10	5,283.66	27.23	28.72	-88.96	724.86	-1,601.88	2,469.58	2,418.60	50.97	48.449		
5,600.00	5,461.73	5,480.70	5,369.23	27.60	29.04	-88.95	725.46	-1,603.49	2,471.47	2,419.79	51.68	47.823		
5,700.00	5,561.73	5,592.90	5,481.39	27.97	29.46	-88.89	727.72	-1,605.71	2,473.50	2,420.98	52.52	47.093		
5,800.00	5,661.73	5,757.34	5,645.81	28.35	30.03	-88.87	728.87	-1,605.86	2,473.46	2,419.90	53.56	46.178		
5,900.00	5,761.73	5,843.27	5,731.73	28.72	30.31	-88.88	728.53	-1,605.12	2,472.62	2,418.35	54.26	45.567		
5,948.26	5,809.99	5,881.53	5,769.99	28.90	30.44	-88.88	728.39	-1,605.06	2,472.53	2,417.94	54.59	45.293		
6,000.00	5,861.73	5,928.91	5,817.37	29.10	30.60	-88.88	728.26	-1,605.10	2,472.58	2,417.61	54.97	44.982		
6,100.00	5,961.73	6,019.53	5,907.99	29.48	30.92	-88.88	728.14	-1,605.43	2,472.94	2,417.23	55.70	44.395		
6,200.00	6,061.73	6,105.70	5,994.16	29.86	31.23	-88.88	728.30	-1,606.12	2,473.74	2,417.32	56.43	43.840		
6,300.00	6,161.73	6,186.28	6,074.72	30.25	31.53	-88.87	728.96	-1,607.29	2,475.22	2,418.09	57.13	43.328		
6,400.00	6,261.73	6,274.36	6,162.77	30.63	31.88	-88.84	730.33	-1,609.26	2,477.47	2,419.60	57.87	42.811		
6,451.69	6,313.42	6,344.36	6,232.73	30.83	32.15	-88.80	731.97	-1,610.78	2,478.66	2,420.29	58.38	42.460		
6,500.00	6,361.68	6,431.10	6,319.47	31.01	32.48	3.70	732.99	-1,611.30	2,477.04	2,418.11	58.93	42.036		
6,550.00	6,411.34	6,479.89	6,368.26	31.20	32.65	3.73	732.72	-1,611.36	2,471.36	2,412.07	59.29	41.684		
6,600.00	6,460.39	6,522.75	6,411.11	31.38	32.80	3.79	732.10	-1,611.47	2,461.87	2,402.26	59.61	41.299		
6,650.00	6,508.54	6,563.13	6,451.49	31.58	32.94	3.88	731.58	-1,611.70	2,448.72	2,388.81	59.91	40.875		
6,700.00	6,555.48	6,632.64	6,520.99	31.78	33.18	4.01	730.67	-1,612.02	2,431.82	2,371.51	60.31	40.319		
6,750.00	6,600.93	6,703.43	6,591.76	31.98	33.42	4.18	729.32	-1,611.43	2,410.63	2,349.93	60.70	39.711		
6,800.00	6,644.61	6,755.47	6,643.78	32.20	33.59	4.39	728.26	-1,610.69	2,385.74	2,324.74	61.00	39.109		
6,850.00	6,686.25	6,796.40	6,684.70	32.44	33.73	4.67	727.54	-1,610.03	2,357.45	2,296.20	61.25	38.492		
6,900.00	6,725.58	6,833.80	6,722.10	32.68	33.86	5.02	727.15	-1,609.44	2,326.05	2,264.58	61.46	37.845		
6,950.00	6,762.38	6,866.60	6,754.90	32.96	33.97	5.48	727.02	-1,608.94	2,291.73	2,230.08	61.65	37.173		
7,000.00	6,796.41	6,895.08	6,783.37	33.25	34.07	6.05	726.98	-1,608.57	2,254.76	2,192.95	61.81	36.477		
7,050.00	6,827.46	6,921.13	6,809.42	33.58	34.16	6.79	726.99	-1,608.28	2,215.34	2,153.39	61.95	35.758		
7,100.00	6,855.34	6,944.92	6,833.21	33.93	34.25	7.77	727.04	-1,608.07	2,173.70	2,111.63	62.08	35.016		
7,150.00	6,879.88	6,968.23	6,856.52	34.33	34.33	9.12	727.12	-1,607.88	2,130.07	2,067.88	62.19	34.249		
7,200.00	6,900.93	6,988.18	6,876.46	34.76	34.41	11.04	727.22	-1,607.72	2,084.69	2,022.40	62.29	33.468		
7,250.00	6,918.36	7,004.64	6,892.93	35.23	34.47	13.92	727.32	-1,607.60	2,037.84	1,975.48	62.37	32.676		
7,300.00	6,932.05	7,017.51	6,905.80	35.74	34.51	18.66	727.42	-1,607.51	1,989.81	1,927.39	62.43	31.875		
7,350.00	6,941.94	7,026.70	6,914.99	36.29	34.55	27.52	727.49	-1,607.44	1,940.90	1,878.43	62.47	31.070		
7,400.00	6,947.94	7,032.16	6,920.44	36.87	34.57	47.58	727.54	-1,607.40	1,891.39	1,828.89	62.50	30.263		
7,450.00	6,950.04	7,033.83	6,922.12	37.47	34.57	92.68	727.55	-1,607.39	1,841.61	1,779.09	62.52	29.457		
7,458.56	6,950.00	7,033.74	6,922.02	37.58	34.57	101.66	727.55	-1,607.39	1,833.08	1,770.56	62.52	29.320		
7,500.00	6,949.56	7,033.01	6,921.30	38.11	34.57	101.40	727.54	-1,607.40	1,791.79	1,729.26	62.53	28.655		
7,600.00	6,948.48	7,031.26	6,919.54	39.51	34.56	100.77	727.53	-1,607.41	1,692.20	1,629.64	62.56	27.050		
7,700.00	6,947.40	7,029.50	6,917.79	41.06	34.56	100.14	727.51	-1,607.42	1,592.65	1,530.06	62.60	25.443		
7,800.00	6,946.32	7,027.74	6,916.02	42.74	34.55	99.50	727.50	-1,607.43	1,493.17	1,430.52	62.65	23.835		
7,900.00	6,945.24	7,025.97	6,914.26	44.55	34.54	98.86	727.48	-1,607.45	1,393.75	1,331.04	62.71	22.224		
8,000.00	6,944.16	7,024.20	6,912.49	46.46	34.54	98.22	727.47	-1,607.46	1,294.42	1,231.62	62.80	20.612		
8,100.00	6,943.08	7,022.43	6,910.71	48.47	34.53	97.57	727.46	-1,607.47	1,195.20	1,132.28	62.92	18.996		
8,200.00	6,942.01	7,020.65	6,908.93	50.55	34.52	96.92	727.44	-1,607.48	1,096.12	1,033.05	63.07	17.379		
8,300.00	6,940.93	7,018.86	6,907.15	52.71	34.52	96.26	727.43	-1,607.50	997.22	933.93	63.29	15.757		
8,400.00	6,939.85	7,017.08	6,905.36	54.93	34.51	95.60	727.41	-1,607.51	898.56	834.98	63.58	14.132		
8,500.00	6,938.77	7,015.28	6,903.57	57.20	34.51	94.94	727.40	-1,607.52	800.23	736.22	64.01	12.502		
8,600.00	6,937.69	7,013.49	6,901.77	59.53	34.50	94.27	727.39	-1,607.54	702.36	637.73	64.63	10.867		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #4-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,700.00	6,936.61	7,011.69	6,899.97	61.89	34.49	93.60	727.37	-1,607.55	605.19	539.60	65.59	9.227			
8,800.00	6,935.54	7,009.88	6,898.17	64.30	34.49	92.93	727.36	-1,607.56	509.11	441.98	67.12	7.585			
8,900.00	6,934.46	7,008.07	6,896.36	66.74	34.48	92.26	727.35	-1,607.57	414.87	345.14	69.73	5.949			
9,000.00	6,933.38	7,006.26	6,894.54	69.21	34.47	91.58	727.33	-1,607.59	324.10	249.65	74.45	4.353			
9,100.00	6,932.30	7,004.44	6,892.72	71.71	34.47	90.90	727.32	-1,607.60	240.73	157.38	83.36	2.888			
9,200.00	6,931.22	7,002.61	6,890.90	74.23	34.46	90.22	727.31	-1,607.61	175.67	76.94	98.74	1.779			
9,285.51	6,930.30	7,001.05	6,889.34	76.41	34.45	89.64	727.30	-1,607.63	153.47	43.91	109.56	1.401	Level 3, CC, ES, SF		
9,300.00	6,930.14	7,000.78	6,889.07	76.78	34.45	89.54	727.30	-1,607.63	154.15	44.37	109.78	1.404	Level 3		
9,400.00	6,929.06	6,998.95	6,887.24	79.34	34.45	88.86	727.28	-1,607.64	191.46	92.01	99.45	1.925			
9,500.00	6,927.99	6,997.11	6,885.40	81.93	34.44	88.17	727.27	-1,607.66	263.71	177.32	86.40	3.052			
9,600.00	6,926.91	6,995.27	6,883.56	84.53	34.43	87.49	727.26	-1,607.67	349.89	271.52	78.37	4.465			
9,700.00	6,925.83	6,993.43	6,881.71	87.14	34.43	86.80	727.25	-1,607.68	441.93	368.21	73.72	5.994			
9,800.00	6,924.75	6,991.58	6,879.86	89.77	34.42	86.11	727.24	-1,607.70	536.81	465.91	70.91	7.571			
9,900.00	6,923.67	6,989.72	6,878.01	92.41	34.41	85.42	727.23	-1,607.71	633.27	564.17	69.10	9.164			
10,000.00	6,922.59	6,987.86	6,876.15	95.07	34.40	84.73	727.22	-1,607.73	730.67	662.79	67.89	10.763			
10,100.00	6,921.51	6,985.99	6,874.28	97.73	34.40	84.04	727.21	-1,607.74	828.69	761.66	67.03	12.363			
10,200.00	6,920.44	6,984.12	6,872.41	100.40	34.39	83.35	727.20	-1,607.75	927.13	860.72	66.41	13.960			
10,300.00	6,919.36	6,982.25	6,870.54	103.08	34.38	82.66	727.19	-1,607.77	1,025.87	959.91	65.95	15.555			
10,400.00	6,918.28	6,980.37	6,868.66	105.77	34.38	81.97	727.18	-1,607.78	1,124.82	1,059.22	65.60	17.146			
10,500.00	6,917.20	6,978.49	6,866.78	108.47	34.37	81.28	727.17	-1,607.80	1,223.95	1,158.62	65.33	18.735			
10,600.00	6,916.12	6,976.60	6,864.89	111.18	34.36	80.59	727.16	-1,607.81	1,323.20	1,258.08	65.12	20.320			
10,700.00	6,915.04	6,974.71	6,862.99	113.89	34.36	79.90	727.15	-1,607.83	1,422.55	1,357.61	64.95	21.903			
10,800.00	6,913.96	6,972.81	6,861.10	116.61	34.35	79.22	727.14	-1,607.84	1,521.99	1,457.18	64.82	23.482			
10,900.00	6,912.89	6,970.90	6,859.19	119.33	34.34	78.53	727.13	-1,607.86	1,621.50	1,556.79	64.71	25.058			
11,000.00	6,911.81	6,969.00	6,857.29	122.06	34.34	77.85	727.12	-1,607.87	1,721.05	1,656.43	64.62	26.632			
11,100.00	6,910.73	6,967.08	6,855.37	124.79	34.33	77.17	727.11	-1,607.89	1,820.66	1,756.10	64.56	28.202			
11,200.00	6,909.65	6,965.17	6,853.46	127.53	34.32	76.49	727.11	-1,607.90	1,920.31	1,855.80	64.51	29.769			
11,300.00	6,908.57	6,963.24	6,851.53	130.27	34.31	75.81	727.10	-1,607.92	2,019.98	1,955.52	64.47	31.334			
11,400.00	6,907.49	6,961.32	6,849.61	133.02	34.31	75.13	727.09	-1,607.93	2,119.69	2,055.25	64.44	32.895			
11,500.00	6,906.41	6,959.39	6,847.67	135.77	34.30	74.46	727.08	-1,607.95	2,219.42	2,155.01	64.42	34.454			
11,600.00	6,905.34	6,960.07	6,848.35	138.52	34.30	74.70	727.09	-1,607.95	2,319.17	2,254.76	64.40	36.011			
11,700.00	6,904.26	6,957.91	6,846.20	141.28	34.29	73.95	727.08	-1,607.97	2,418.94	2,354.54	64.40	37.563			
11,800.00	6,903.18	6,955.72	6,844.01	144.04	34.28	73.20	727.07	-1,607.98	2,518.73	2,454.33	64.40	39.112			
11,900.00	6,902.10	6,953.50	6,841.78	146.80	34.28	72.44	727.06	-1,608.00	2,618.54	2,554.13	64.40	40.659			
12,000.00	6,901.02	6,951.23	6,839.51	149.57	34.27	71.67	727.05	-1,608.02	2,718.35	2,653.94	64.41	42.202			
12,100.00	6,899.94	6,948.91	6,837.20	152.34	34.26	70.89	727.05	-1,608.04	2,818.18	2,753.75	64.43	43.742			
12,200.00	6,898.87	6,946.56	6,834.85	155.11	34.25	70.11	727.04	-1,608.06	2,918.02	2,853.58	64.45	45.278			
12,300.00	6,897.79	6,944.16	6,832.45	157.89	34.24	69.32	727.03	-1,608.07	3,017.87	2,953.40	64.47	46.812			
12,400.00	6,896.71	6,941.72	6,830.01	160.66	34.24	68.52	727.03	-1,608.09	3,117.73	3,053.23	64.49	48.342			
12,500.00	6,895.63	6,939.23	6,827.52	163.44	34.23	67.72	727.02	-1,608.12	3,217.59	3,153.07	64.52	49.869			
12,600.00	6,894.55	6,936.69	6,824.98	166.22	34.22	66.91	727.02	-1,608.14	3,317.46	3,252.91	64.55	51.393			
12,700.00	6,893.47	6,934.10	6,822.39	169.00	34.21	66.10	727.01	-1,608.16	3,417.34	3,352.75	64.58	52.914			
12,800.00	6,892.39	6,931.46	6,819.75	171.79	34.20	65.28	727.01	-1,608.18	3,517.22	3,452.60	64.62	54.431			
12,900.00	6,891.32	6,928.77	6,817.06	174.57	34.19	64.45	727.00	-1,608.21	3,617.11	3,552.45	64.66	55.944			
13,000.00	6,890.24	6,926.02	6,814.31	177.36	34.18	63.62	727.00	-1,608.24	3,717.00	3,652.30	64.70	57.454			
13,100.00	6,889.16	6,923.22	6,811.51	180.15	34.17	62.78	726.99	-1,608.26	3,816.90	3,752.16	64.74	58.961			
13,200.00	6,888.08	6,920.36	6,808.65	182.94	34.16	61.95	726.99	-1,608.29	3,916.80	3,852.02	64.78	60.464			
13,300.00	6,887.00	6,917.44	6,805.73	185.74	34.15	61.10	726.99	-1,608.32	4,016.70	3,951.88	64.82	61.963			
13,400.00	6,885.92	6,914.46	6,802.75	188.53	34.14	60.25	726.98	-1,608.35	4,116.61	4,051.74	64.87	63.459			
13,500.00	6,884.84	6,911.42	6,799.71	191.32	34.13	59.40	726.98	-1,608.38	4,216.52	4,151.60	64.92	64.951			
13,600.00	6,883.77	6,908.31	6,796.60	194.12	34.12	58.55	726.98	-1,608.42	4,316.43	4,251.46	64.97	66.439			
13,700.00	6,882.69	6,905.14	6,793.43	196.92	34.11	57.69	726.98	-1,608.45	4,416.34	4,351.32	65.02	67.924			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #4-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
							+N/-S (ft)	+E/-W (ft)							
13,800.00	6,881.61	6,901.89	6,790.18	199.72	34.10	56.84	726.98	-1,608.49	4,516.26	4,451.19	65.07	69.405			
13,900.00	6,880.53	6,898.58	6,786.87	202.52	34.08	55.98	726.98	-1,608.53	4,616.18	4,551.05	65.13	70.882			
14,000.00	6,879.45	6,895.19	6,783.48	205.32	34.07	55.12	726.98	-1,608.57	4,716.10	4,650.92	65.18	72.355			
14,100.00	6,878.37	6,891.72	6,780.01	208.12	34.06	54.25	726.98	-1,608.61	4,816.02	4,750.79	65.24	73.824			
14,200.00	6,877.29	6,888.17	6,776.47	210.92	34.05	53.39	726.99	-1,608.65	4,915.95	4,850.65	65.29	75.290			
14,300.00	6,876.22	6,884.55	6,772.84	213.73	34.03	52.53	726.99	-1,608.70	5,015.87	4,950.52	65.35	76.752			
14,400.00	6,875.14	6,880.83	6,769.13	216.53	34.02	51.66	726.99	-1,608.75	5,115.80	5,050.39	65.41	78.209			
14,500.00	6,874.06	6,877.03	6,765.33	219.34	34.01	50.80	727.00	-1,608.80	5,215.72	5,150.25	65.47	79.663			
14,600.00	6,872.98	6,873.14	6,761.44	222.15	33.99	49.94	727.01	-1,608.85	5,315.65	5,250.12	65.53	81.113			
14,700.00	6,871.90	6,869.16	6,757.45	224.95	33.98	49.08	727.02	-1,608.90	5,415.58	5,349.99	65.60	82.558			
14,800.00	6,870.82	6,865.07	6,753.37	227.76	33.97	48.22	727.03	-1,608.96	5,515.51	5,449.85	65.66	84.000			
14,900.00	6,869.75	6,860.89	6,749.18	230.57	33.95	47.37	727.04	-1,609.02	5,615.44	5,549.72	65.73	85.438			
15,000.00	6,868.67	6,856.60	6,744.90	233.38	33.94	46.52	727.05	-1,609.09	5,715.38	5,649.58	65.79	86.871			
15,100.00	6,867.59	6,852.20	6,740.50	236.19	33.92	45.67	727.06	-1,609.15	5,815.31	5,749.45	65.86	88.300			
15,200.00	6,866.51	6,849.11	6,737.41	239.00	33.91	45.08	727.07	-1,609.20	5,915.24	5,849.31	65.93	89.724			
15,300.00	6,865.43	6,846.53	6,734.82	241.81	33.90	44.60	727.08	-1,609.24	6,015.17	5,949.18	66.00	91.142			
15,400.00	6,864.35	6,843.94	6,732.24	244.63	33.89	44.13	727.10	-1,609.28	6,115.11	6,049.04	66.07	92.556			
15,500.00	6,863.27	6,841.35	6,729.65	247.44	33.88	43.67	727.11	-1,609.32	6,215.04	6,148.90	66.14	93.966			
15,600.00	6,862.20	6,838.76	6,727.05	250.25	33.88	43.22	727.12	-1,609.36	6,314.98	6,248.77	66.21	95.371			
15,618.10	6,862.00	6,838.29	6,726.59	250.76	33.87	43.14	727.13	-1,609.37	6,333.06	6,266.84	66.23	95.625			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #5-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	-74.78	257.58	-947.02	982.16						
100.00	100.00	57.12	57.12	3.28	3.29	-74.78	257.60	-947.12	981.54	974.97	6.57	149.350	CC, ES		
200.00	200.00	146.51	146.51	3.34	3.34	-74.79	257.77	-948.03	982.57	975.90	6.68	147.191			
300.00	299.98	249.93	249.91	3.44	3.45	-126.73	258.17	-949.54	985.13	978.23	6.89	142.911			
400.00	399.84	339.73	339.70	3.61	3.59	-126.88	258.28	-951.10	989.98	982.78	7.20	137.582			
500.00	499.45	439.55	439.47	3.81	3.79	-127.27	257.04	-953.74	997.49	989.90	7.60	131.301			
600.00	598.70	538.62	538.41	4.06	4.02	-127.94	252.97	-956.86	1,007.04	998.97	8.08	124.705			
700.00	697.47	621.59	621.07	4.35	4.25	-128.69	247.06	-960.76	1,019.80	1,011.22	8.59	118.776			
800.00	795.62	703.62	702.61	4.66	4.50	-129.56	239.89	-966.04	1,036.52	1,027.37	9.15	113.265			
900.00	893.06	794.35	792.64	5.01	4.81	-130.67	230.90	-972.83	1,056.82	1,047.03	9.79	107.911			
961.44	952.51	848.72	846.54	5.25	5.01	-131.36	225.17	-977.11	1,070.95	1,060.74	10.21	104.912			
1,000.00	989.71	882.61	880.13	5.40	5.14	-131.94	221.55	-979.86	1,080.31	1,069.83	10.47	103.146			
1,100.00	1,086.20	966.60	963.23	5.81	5.48	-133.38	211.88	-987.10	1,105.55	1,094.38	11.17	99.003			
1,200.00	1,182.69	1,033.33	1,029.02	6.24	5.76	-134.54	202.97	-993.84	1,132.87	1,121.06	11.82	95.874			
1,300.00	1,279.18	1,098.63	1,093.03	6.69	6.06	-135.72	193.04	-1,002.12	1,163.24	1,150.77	12.47	93.277			
1,400.00	1,375.67	1,169.37	1,162.06	7.15	6.41	-136.98	181.46	-1,012.35	1,196.10	1,182.94	13.16	90.886			
1,500.00	1,472.15	1,248.19	1,238.68	7.62	6.82	-138.39	167.59	-1,024.59	1,230.81	1,216.91	13.90	88.519			
1,600.00	1,568.64	1,319.36	1,307.56	8.10	7.22	-139.64	154.09	-1,036.32	1,267.30	1,252.68	14.62	86.704			
1,700.00	1,665.13	1,390.57	1,376.18	8.59	7.64	-140.89	139.82	-1,048.89	1,305.72	1,290.39	15.33	85.163			
1,800.00	1,761.62	1,469.37	1,451.88	9.08	8.12	-142.22	123.51	-1,063.50	1,345.81	1,329.70	16.10	83.577			
1,900.00	1,858.11	1,552.78	1,531.76	9.58	8.65	-143.61	105.18	-1,078.99	1,386.83	1,369.91	16.91	81.990			
2,000.00	1,954.60	1,647.34	1,622.02	10.08	9.28	-145.16	83.00	-1,096.35	1,428.65	1,410.83	17.82	80.176			
2,100.00	2,051.09	1,738.12	1,708.93	10.59	9.89	-146.56	61.99	-1,112.06	1,470.25	1,451.54	18.70	78.605			
2,200.00	2,147.57	1,802.26	1,770.07	11.09	10.34	-147.54	46.16	-1,123.32	1,513.06	1,493.67	19.38	78.059			
2,300.00	2,244.06	1,852.25	1,817.36	11.61	10.70	-148.31	33.16	-1,132.95	1,558.20	1,538.26	19.94	78.146			
2,400.00	2,340.55	1,923.99	1,884.92	12.12	11.23	-149.36	14.24	-1,147.92	1,605.37	1,584.70	20.67	77.655			
2,500.00	2,437.04	2,019.38	1,975.11	12.64	11.95	-150.64	-9.48	-1,168.00	1,653.02	1,631.40	21.61	76.487			
2,600.00	2,533.53	2,105.69	2,056.96	13.15	12.60	-151.72	-30.41	-1,185.68	1,700.53	1,678.06	22.47	75.691			
2,700.00	2,630.02	2,193.13	2,139.92	13.67	13.25	-152.74	-51.36	-1,203.65	1,748.51	1,725.17	23.33	74.940			
2,800.00	2,726.50	2,295.31	2,236.98	14.19	14.02	-153.89	-75.99	-1,223.96	1,796.38	1,772.05	24.33	73.835			
2,900.00	2,822.99	2,360.98	2,299.50	14.72	14.52	-154.57	-91.35	-1,236.93	1,844.37	1,819.38	24.99	73.791			
3,000.00	2,919.48	2,433.86	2,368.74	15.24	15.07	-155.28	-107.93	-1,252.51	1,893.78	1,868.06	25.72	73.626			
3,100.00	3,015.97	2,534.12	2,464.11	15.76	15.83	-156.21	-130.96	-1,273.19	1,942.95	1,916.25	26.70	72.768			
3,200.00	3,112.46	2,602.46	2,529.09	16.29	16.35	-156.83	-146.92	-1,287.07	1,992.33	1,964.95	27.38	72.755			
3,300.00	3,208.95	2,651.69	2,575.74	16.81	16.73	-157.25	-158.33	-1,297.87	2,043.20	2,015.32	27.88	73.279			
3,400.00	3,305.44	2,717.33	2,637.68	17.34	17.26	-157.79	-173.80	-1,313.10	2,095.43	2,066.89	28.54	73.427			
3,500.00	3,401.92	2,911.12	2,821.38	17.87	18.77	-159.39	-221.21	-1,352.43	2,145.72	2,115.30	30.42	70.531			
3,600.00	3,498.41	2,992.95	2,899.37	18.40	19.40	-160.04	-241.27	-1,366.90	2,194.30	2,163.06	31.24	70.239			
3,700.00	3,594.90	3,116.73	3,017.31	18.93	20.34	-161.01	-272.57	-1,387.75	2,242.80	2,210.35	32.45	69.115			
3,800.00	3,691.39	3,800.00	3,102.53	19.46	25.33	-161.61	-292.65	-1,402.51	2,290.32	2,253.65	36.68	62.449			
3,900.00	3,787.88	3,251.84	3,147.05	19.99	21.32	-161.88	-302.17	-1,411.03	2,338.74	2,304.95	33.80	69.196			
4,000.00	3,884.37	3,426.84	3,315.03	20.52	22.59	-162.91	-339.79	-1,442.34	2,388.06	2,352.61	35.45	67.371			
4,100.00	3,980.85	3,544.08	3,427.97	21.05	23.41	-163.67	-367.41	-1,457.41	2,433.28	2,396.70	36.57	66.535			
4,200.00	4,077.34	3,605.35	3,486.87	21.58	23.85	-164.06	-382.37	-1,465.16	2,479.00	2,441.79	37.21	66.628			
4,300.00	4,173.83	3,642.00	3,522.08	22.11	24.11	-164.29	-391.21	-1,470.22	2,526.00	2,488.39	37.61	67.160			
4,390.25	4,260.91	3,691.18	3,569.17	22.59	24.48	-164.58	-403.27	-1,477.72	2,569.63	2,531.51	38.12	67.409			
4,400.00	4,270.32	3,694.90	3,572.71	22.64	24.51	-164.63	-404.20	-1,478.33	2,574.42	2,536.26	38.16	67.466			
4,500.00	4,367.33	3,733.00	3,608.96	23.16	24.79	-165.14	-413.95	-1,484.86	2,622.89	2,584.34	38.55	68.047			
4,600.00	4,465.13	3,787.77	3,660.81	23.65	25.23	-165.70	-428.54	-1,494.85	2,669.82	2,630.74	39.08	68.312			
4,700.00	4,563.60	3,850.33	3,719.71	24.12	25.75	-166.27	-446.00	-1,506.62	2,714.87	2,675.19	39.68	68.411			
4,800.00	4,662.61	3,931.04	3,795.54	24.56	26.42	-166.88	-468.88	-1,522.11	2,757.53	2,717.06	40.47	68.143			
4,900.00	4,762.05	4,900.00	3,980.77	24.98	33.84	-167.86	-521.72	-1,558.55	2,796.68	2,750.01	46.67	59.925			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - WIEDEMAN #5-5 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 16-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,861.80	4,232.45	4,081.86	25.38	28.78	-168.28	-543.78	-1,578.02	2,829.27	2,785.91	43.36	65.255		
5,100.00	4,961.73	4,290.12	4,137.30	25.76	29.19	-168.49	-553.92	-1,590.26	2,859.49	2,815.64	43.85	65.209		
5,151.69	5,013.42	4,321.75	4,167.61	25.95	29.43	-116.71	-559.81	-1,597.12	2,874.30	2,830.18	44.11	65.156		
5,200.00	5,061.73	4,356.00	4,200.34	26.13	29.68	-116.77	-566.61	-1,604.56	2,888.02	2,843.61	44.40	65.044		
5,300.00	5,161.73	4,837.96	4,667.21	26.49	32.95	-117.64	-655.07	-1,682.09	2,913.54	2,864.99	48.55	60.016		
5,400.00	5,261.73	4,943.71	4,771.42	26.86	33.53	-117.78	-668.81	-1,693.68	2,929.33	2,879.91	49.42	59.273		
5,500.00	5,361.73	5,277.95	5,102.83	27.23	35.16	-118.11	-701.85	-1,720.22	2,941.43	2,889.73	51.70	56.892		
5,600.00	5,461.73	5,600.00	5,314.30	27.60	36.40	-118.28	-715.50	-1,726.94	2,947.53	2,894.03	53.50	55.093		
5,700.00	5,561.73	5,658.66	5,482.87	27.97	36.55	-118.36	-720.74	-1,727.55	2,948.80	2,894.68	54.12	54.490		
5,800.00	5,661.73	5,754.10	5,578.26	28.35	36.86	-118.41	-723.46	-1,727.84	2,950.42	2,895.55	54.87	53.771		
5,900.00	5,761.73	5,918.16	5,742.31	28.72	37.33	-118.40	-723.32	-1,728.25	2,950.42	2,894.58	55.84	52.835		
6,000.00	5,861.73	6,004.60	5,828.73	29.10	37.55	-118.36	-721.51	-1,728.90	2,950.08	2,893.55	56.52	52.192		
6,100.00	5,961.73	6,102.06	5,926.15	29.48	37.81	-118.32	-719.39	-1,729.94	2,949.98	2,892.73	57.25	51.531		
6,154.16	6,015.89	6,153.81	5,977.89	29.69	37.95	-118.29	-718.25	-1,730.50	2,949.94	2,892.30	57.64	51.181		
6,200.00	6,061.73	6,191.71	6,015.77	29.86	38.06	-118.27	-717.38	-1,731.03	2,950.00	2,892.05	57.95	50.907		
6,300.00	6,161.73	6,280.99	6,105.01	30.25	38.31	-118.22	-715.23	-1,732.70	2,950.50	2,891.85	58.65	50.303		
6,400.00	6,261.73	6,389.53	6,213.50	30.63	38.62	-118.16	-712.64	-1,734.79	2,951.08	2,891.65	59.43	49.656		
6,451.69	6,313.42	6,436.33	6,260.28	30.83	38.75	-118.13	-711.38	-1,735.67	2,951.28	2,891.48	59.80	49.352		
6,500.00	6,361.68	6,476.40	6,300.32	31.01	38.87	-25.71	-710.40	-1,736.49	2,949.94	2,889.82	60.12	49.068		
6,550.00	6,411.34	6,518.77	6,342.68	31.20	38.99	-25.91	-709.47	-1,737.43	2,945.22	2,884.79	60.43	48.735		
6,600.00	6,460.39	6,561.45	6,385.33	31.38	39.12	-26.29	-708.64	-1,738.43	2,937.12	2,876.39	60.73	48.363		
6,650.00	6,508.54	6,605.87	6,429.74	31.58	39.26	-26.84	-707.89	-1,739.51	2,925.67	2,864.65	61.02	47.947		
6,700.00	6,555.48	6,651.80	6,475.65	31.78	39.40	-27.60	-707.14	-1,740.66	2,910.88	2,849.59	61.30	47.489		
6,750.00	6,600.93	6,699.15	6,522.97	31.98	39.54	-28.60	-706.37	-1,741.84	2,892.84	2,831.28	61.56	46.992		
6,800.00	6,644.61	6,747.40	6,571.20	32.20	39.69	-29.85	-705.46	-1,743.06	2,871.60	2,809.79	61.81	46.457		
6,850.00	6,686.25	6,794.77	6,618.54	32.44	39.84	-31.40	-704.39	-1,744.27	2,847.31	2,785.26	62.04	45.893		
6,900.00	6,725.58	6,840.23	6,663.97	32.68	39.98	-33.28	-703.12	-1,745.47	2,820.11	2,757.86	62.25	45.301		
6,950.00	6,762.38	6,878.09	6,701.79	32.96	40.09	-35.51	-701.91	-1,746.49	2,790.23	2,727.81	62.42	44.698		
7,000.00	6,796.41	6,911.39	6,735.06	33.25	40.19	-38.15	-700.81	-1,747.44	2,757.95	2,695.38	62.57	44.077		
7,050.00	6,827.46	6,941.99	6,765.64	33.58	40.28	-41.29	-699.78	-1,748.34	2,723.48	2,660.77	62.70	43.434		
7,100.00	6,855.34	6,979.37	6,802.97	33.93	40.39	-45.20	-698.47	-1,749.41	2,687.01	2,624.15	62.86	42.744		
7,150.00	6,879.88	7,012.57	6,836.14	34.33	40.49	-49.81	-697.25	-1,750.28	2,648.75	2,585.74	63.01	42.037		
7,200.00	6,900.93	7,041.05	6,864.59	34.76	40.57	-55.19	-696.16	-1,750.97	2,609.01	2,545.86	63.15	41.315		
7,250.00	6,918.36	7,057.51	6,881.04	35.23	40.62	-61.11	-695.52	-1,751.36	2,568.11	2,504.84	63.26	40.594		
7,300.00	6,932.05	7,072.52	6,896.03	35.74	40.67	-67.80	-694.94	-1,751.72	2,526.34	2,462.95	63.39	39.854		
7,350.00	6,941.94	7,083.66	6,907.16	36.29	40.70	-75.03	-694.51	-1,751.98	2,483.99	2,420.46	63.53	39.101		
7,400.00	6,947.94	7,090.87	6,914.36	36.87	40.72	-82.53	-694.23	-1,752.15	2,441.35	2,377.67	63.68	38.339		
7,450.00	6,950.04	7,094.11	6,917.60	37.47	40.73	-90.01	-694.11	-1,752.23	2,398.71	2,334.87	63.85	37.570		
7,458.56	6,950.00	7,094.26	6,917.75	37.58	40.73	-91.26	-694.10	-1,752.23	2,391.44	2,327.56	63.88	37.438		
7,500.00	6,949.56	7,094.73	6,918.22	38.11	40.73	-91.28	-694.08	-1,752.24	2,356.32	2,292.28	64.04	36.795		
7,600.00	6,948.48	7,095.85	6,919.34	39.51	40.73	-91.33	-694.04	-1,752.27	2,272.47	2,207.93	64.54	35.212		
7,700.00	6,947.40	7,096.97	6,920.46	41.06	40.74	-91.38	-694.00	-1,752.30	2,189.97	2,124.77	65.20	33.589		
7,800.00	6,946.32	7,098.09	6,921.58	42.74	40.74	-91.43	-693.95	-1,752.32	2,108.99	2,042.94	66.05	31.930		
7,900.00	6,945.24	7,099.21	6,922.70	44.55	40.74	-91.48	-693.91	-1,752.35	2,029.70	1,962.59	67.11	30.244		
8,000.00	6,944.16	7,100.33	6,923.81	46.46	40.75	-91.53	-693.86	-1,752.38	1,952.31	1,883.91	68.41	28.539		
8,100.00	6,943.08	7,101.45	6,924.93	48.47	40.75	-91.58	-693.82	-1,752.40	1,877.07	1,807.10	69.96	26.829		
8,200.00	6,942.01	7,102.56	6,926.04	50.55	40.75	-91.63	-693.78	-1,752.43	1,804.22	1,732.43	71.80	25.129		
8,300.00	6,940.93	7,103.68	6,927.15	52.71	40.76	-91.69	-693.74	-1,752.45	1,734.09	1,660.16	73.93	23.456		
8,400.00	6,939.85	7,104.79	6,928.27	54.93	40.76	-91.74	-693.69	-1,752.48	1,667.01	1,590.63	76.38	21.826		
8,500.00	6,938.77	7,105.90	6,929.38	57.20	40.76	-91.79	-693.65	-1,752.51	1,603.35	1,524.21	79.15	20.258		
8,600.00	6,937.69	7,107.01	6,930.48	59.53	40.77	-91.84	-693.61	-1,752.53	1,543.56	1,461.32	82.24	18.768		
8,700.00	6,936.61	7,108.12	6,931.59	61.89	40.77	-91.89	-693.56	-1,752.56	1,488.09	1,402.43	85.66	17.372		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #5-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,800.00	6,935.54	7,109.22	6,932.70	64.30	40.77	-91.94	-693.52	-1,752.58	1,437.44	1,348.07	89.37	16.084			
8,900.00	6,934.46	7,110.33	6,933.80	66.74	40.78	-91.99	-693.48	-1,752.61	1,392.15	1,298.81	93.34	14.915			
9,000.00	6,933.38	7,111.43	6,934.90	69.21	40.78	-92.04	-693.43	-1,752.64	1,352.74	1,255.24	97.50	13.874			
9,100.00	6,932.30	7,112.54	6,936.01	71.71	40.78	-92.09	-693.39	-1,752.66	1,319.74	1,217.96	101.78	12.967			
9,200.00	6,931.22	7,113.64	6,937.11	74.23	40.79	-92.14	-693.35	-1,752.69	1,293.66	1,187.58	106.07	12.196			
9,300.00	6,930.14	7,114.74	6,938.20	76.78	40.79	-92.19	-693.31	-1,752.71	1,274.90	1,164.63	110.27	11.562			
9,400.00	6,929.06	7,115.84	6,939.30	79.34	40.79	-92.24	-693.26	-1,752.74	1,263.80	1,149.55	114.25	11.062			
9,490.94	6,928.08	7,116.83	6,940.30	81.69	40.80	-92.28	-693.22	-1,752.76	1,260.52	1,142.94	117.58	10.721			
9,500.00	6,927.99	7,116.93	6,940.40	81.93	40.80	-92.29	-693.22	-1,752.76	1,260.55	1,142.66	117.89	10.693			
9,600.00	6,926.91	7,118.03	6,941.49	84.53	40.80	-92.34	-693.18	-1,752.79	1,265.23	1,144.13	121.10	10.448			
9,700.00	6,925.83	7,119.12	6,942.59	87.14	40.80	-92.39	-693.13	-1,752.82	1,277.74	1,153.93	123.81	10.320			
9,800.00	6,924.75	7,120.22	6,943.68	89.77	40.81	-92.44	-693.09	-1,752.84	1,297.85	1,171.87	125.98	10.302 SF			
9,900.00	6,923.67	7,121.32	6,944.78	92.41	40.81	-92.49	-693.05	-1,752.87	1,325.23	1,197.61	127.62	10.384			
10,000.00	6,922.59	7,122.42	6,945.92	95.07	40.81	-92.54	-693.01	-1,752.89	1,359.42	1,230.68	128.74	10.560			
10,100.00	6,921.51	7,123.62	6,947.08	97.73	40.82	-92.59	-692.96	-1,752.92	1,399.94	1,270.55	129.39	10.819			
10,200.00	6,920.44	7,124.79	6,948.24	100.40	40.82	-92.64	-692.91	-1,752.95	1,446.24	1,316.61	129.64	11.156			
10,300.00	6,919.36	7,125.97	6,949.42	103.08	40.82	-92.70	-692.87	-1,752.98	1,497.80	1,368.26	129.55	11.562			
10,400.00	6,918.28	7,127.17	6,950.62	105.77	40.83	-92.75	-692.82	-1,753.00	1,554.09	1,424.91	129.18	12.030			
10,500.00	6,917.20	7,128.38	6,951.83	108.47	40.83	-92.81	-692.77	-1,753.03	1,614.62	1,486.02	128.60	12.556			
10,600.00	6,916.12	7,129.61	6,953.06	111.18	40.83	-92.86	-692.73	-1,753.06	1,678.92	1,551.07	127.85	13.132			
10,700.00	6,915.04	7,130.85	6,954.30	113.89	40.84	-92.92	-692.68	-1,753.09	1,746.59	1,619.60	126.99	13.754			
10,800.00	6,913.96	7,132.11	6,955.56	116.61	40.84	-92.98	-692.63	-1,753.12	1,817.24	1,691.19	126.05	14.417			
10,900.00	6,912.89	7,133.38	6,956.83	119.33	40.84	-93.04	-692.58	-1,753.15	1,890.54	1,765.48	125.05	15.118			
11,000.00	6,911.81	7,134.67	6,958.12	122.06	40.85	-93.09	-692.53	-1,753.18	1,966.19	1,842.16	124.03	15.852			
11,100.00	6,910.73	7,135.98	6,959.43	124.79	40.85	-93.15	-692.48	-1,753.22	2,043.93	1,920.93	123.00	16.617			
11,200.00	6,909.65	7,137.31	6,960.75	127.53	40.86	-93.21	-692.43	-1,753.25	2,123.54	2,001.57	121.97	17.410			
11,300.00	6,908.57	7,138.65	6,962.09	130.27	40.86	-93.27	-692.37	-1,753.28	2,204.81	2,083.85	120.96	18.227			
11,400.00	6,907.49	7,140.01	6,963.45	133.02	40.86	-93.34	-692.32	-1,753.31	2,287.57	2,167.59	119.97	19.067			
11,500.00	6,906.41	7,141.38	6,964.82	135.77	40.87	-93.40	-692.27	-1,753.35	2,371.65	2,252.64	119.01	19.928			
11,600.00	6,905.34	7,142.78	6,966.22	138.52	40.87	-93.46	-692.21	-1,753.38	2,456.92	2,338.84	118.08	20.807			
11,700.00	6,904.26	7,144.19	6,967.63	141.28	40.88	-93.53	-692.16	-1,753.42	2,543.27	2,426.09	117.18	21.703			
11,800.00	6,903.18	7,145.63	6,969.06	144.04	40.88	-93.59	-692.10	-1,753.45	2,630.59	2,514.27	116.32	22.615			
11,900.00	6,902.10	7,147.08	6,970.51	146.80	40.89	-93.66	-692.04	-1,753.49	2,718.77	2,603.28	115.49	23.541			
12,000.00	6,901.02	7,148.55	6,971.98	149.57	40.89	-93.72	-691.99	-1,753.53	2,807.75	2,693.05	114.70	24.480			
12,100.00	6,899.94	7,150.04	6,973.47	152.34	40.89	-93.79	-691.93	-1,753.56	2,897.45	2,783.51	113.94	25.430			
12,200.00	6,898.87	7,151.56	6,974.98	155.11	40.90	-93.86	-691.87	-1,753.60	2,987.80	2,874.59	113.21	26.392			
12,300.00	6,897.79	7,153.09	6,976.52	157.89	40.90	-93.93	-691.81	-1,753.64	3,078.74	2,966.23	112.51	27.363			
12,400.00	6,896.71	7,154.64	6,978.07	160.66	40.91	-94.00	-691.75	-1,753.68	3,170.24	3,058.38	111.85	28.343			
12,500.00	6,895.63	7,156.22	6,979.65	163.44	40.91	-94.07	-691.69	-1,753.72	3,262.23	3,151.01	111.22	29.332			
12,600.00	6,894.55	7,157.82	6,981.24	166.22	40.92	-94.15	-691.62	-1,753.76	3,354.67	3,244.06	110.61	30.328			
12,700.00	6,893.47	7,159.45	6,982.87	169.00	40.92	-94.22	-691.56	-1,753.80	3,447.54	3,337.51	110.04	31.331			
12,800.00	6,892.39	7,161.09	6,984.51	171.79	40.93	-94.29	-691.50	-1,753.84	3,540.80	3,431.31	109.49	32.340			
12,900.00	6,891.32	7,162.76	6,986.18	174.57	40.93	-94.37	-691.43	-1,753.89	3,634.41	3,525.45	108.96	33.356			
13,000.00	6,890.24	7,164.46	6,987.87	177.36	40.94	-94.45	-691.36	-1,753.93	3,728.36	3,619.90	108.46	34.376			
13,100.00	6,889.16	7,166.18	6,989.59	180.15	40.94	-94.52	-691.30	-1,753.97	3,822.61	3,714.63	107.98	35.402			
13,200.00	6,888.08	7,167.92	6,991.33	182.94	40.95	-94.60	-691.23	-1,754.02	3,917.15	3,809.63	107.52	36.432			
13,300.00	6,887.00	7,169.69	6,993.10	185.74	40.95	-94.68	-691.16	-1,754.07	4,011.95	3,904.87	107.08	37.466			
13,400.00	6,885.92	7,171.49	6,994.90	188.53	40.96	-94.77	-691.09	-1,754.11	4,107.00	4,000.33	106.66	38.504			
13,500.00	6,884.84	7,173.31	6,996.72	191.32	40.96	-94.85	-691.02	-1,754.16	4,202.27	4,096.01	106.27	39.545			
13,600.00	6,883.77	7,175.17	6,998.57	194.12	40.97	-94.93	-690.94	-1,754.21	4,297.76	4,191.88	105.88	40.590			
13,700.00	6,882.69	7,177.05	7,000.45	196.92	40.97	-95.02	-690.87	-1,754.26	4,393.45	4,287.93	105.52	41.637			
13,800.00	6,881.61	7,178.96	7,002.36	199.72	40.98	-95.10	-690.79	-1,754.31	4,489.33	4,384.16	105.17	42.686			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #5-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
13,900.00	6,880.53	7,180.90	7,004.30	202.52	40.99	-95.19	-690.72	-1,754.36	4,585.38	4,480.55	104.84	43.739			
14,000.00	6,879.45	7,182.87	7,006.27	205.32	40.99	-95.28	-690.64	-1,754.42	4,681.60	4,577.09	104.52	44.793			
14,100.00	6,878.37	7,184.87	7,008.27	208.12	41.00	-95.37	-690.56	-1,754.47	4,777.97	4,673.76	104.21	45.849			
14,200.00	6,877.29	7,186.91	7,010.30	210.92	41.00	-95.47	-690.48	-1,754.52	4,874.49	4,770.57	103.92	46.906			
14,300.00	6,876.22	7,188.98	7,012.36	213.73	41.01	-95.56	-690.40	-1,754.58	4,971.15	4,867.51	103.64	47.965			
14,400.00	6,875.14	7,191.08	7,014.46	216.53	41.02	-95.65	-690.32	-1,754.64	5,067.93	4,964.56	103.37	49.026			
14,500.00	6,874.06	7,193.21	7,016.60	219.34	41.02	-95.75	-690.23	-1,754.70	5,164.84	5,061.72	103.12	50.087			
14,600.00	6,872.98	7,195.39	7,018.76	222.15	41.03	-95.85	-690.14	-1,754.76	5,261.86	5,158.99	102.87	51.150			
14,700.00	6,871.90	7,197.59	7,020.97	224.95	41.04	-95.95	-690.06	-1,754.82	5,358.99	5,256.35	102.64	52.213			
14,800.00	6,870.82	7,199.84	7,023.21	227.76	41.04	-96.05	-689.97	-1,754.88	5,456.22	5,353.81	102.41	53.277			
14,900.00	6,869.75	7,202.12	7,025.49	230.57	41.05	-96.15	-689.88	-1,754.94	5,553.56	5,451.36	102.20	54.341			
15,000.00	6,868.67	7,204.44	7,027.81	233.38	41.06	-96.26	-689.79	-1,755.01	5,650.98	5,548.99	101.99	55.406			
15,100.00	6,867.59	7,206.80	7,030.17	236.19	41.06	-96.37	-689.69	-1,755.08	5,748.49	5,646.69	101.80	56.471			
15,200.00	6,866.51	7,209.21	7,032.57	239.00	41.07	-96.47	-689.60	-1,755.15	5,846.08	5,744.48	101.61	57.536			
15,300.00	6,865.43	7,211.65	7,035.01	241.81	41.08	-96.58	-689.50	-1,755.21	5,943.76	5,842.33	101.43	58.602			
15,400.00	6,864.35	7,214.14	7,037.50	244.63	41.09	-96.70	-689.40	-1,755.29	6,041.51	5,940.25	101.25	59.667			
15,500.00	6,863.27	7,216.67	7,040.03	247.44	41.09	-96.81	-689.30	-1,755.36	6,139.33	6,038.24	101.09	60.732			
15,600.00	6,862.20	7,219.25	7,042.61	250.25	41.10	-96.93	-689.20	-1,755.43	6,237.22	6,136.29	100.93	61.797			
15,618.10	6,862.00	7,219.73	7,043.08	250.76	41.10	-96.95	-689.18	-1,755.45	6,254.94	6,154.04	100.90	61.989			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - WIEDEMAN #6-5 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 16-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-77.99	197.11	-926.70	948.15					
100.00	100.00	60.73	60.73	3.28	3.29	-77.99	197.15	-926.75	947.49	940.91	6.57	144.150		
200.00	200.00	155.89	155.89	3.34	3.34	-77.97	197.50	-927.15	947.98	941.30	6.68	141.888		
300.00	299.98	266.63	266.62	3.44	3.47	-129.98	196.87	-927.57	949.36	942.45	6.91	137.397		
400.00	399.84	400.00	409.38	3.61	3.69	-130.74	189.13	-925.03	949.84	942.53	7.31	129.965		
500.00	499.45	575.78	573.38	3.81	4.15	-132.61	166.89	-912.51	944.66	936.64	8.02	117.812		
600.00	598.70	670.72	666.84	4.06	4.47	-133.95	152.50	-903.90	941.56	933.01	8.55	110.138		
646.32	644.52	714.59	710.04	4.19	4.63	-134.59	146.04	-899.96	941.20	932.37	8.82	106.686	CC, ES	
700.00	697.47	764.34	759.07	4.35	4.83	-135.33	138.80	-895.57	941.71	932.56	9.15	102.914		
800.00	795.62	861.75	855.03	4.66	5.23	-136.87	124.41	-887.08	945.19	935.35	9.84	96.053		
900.00	893.06	972.87	964.04	5.01	5.74	-138.88	105.51	-876.82	951.41	940.74	10.68	89.125		
961.44	952.51	1,050.12	1,039.10	5.25	6.15	-140.51	89.35	-868.33	955.90	944.61	11.29	84.675		
1,000.00	989.71	1,096.99	1,084.40	5.40	6.41	-141.58	78.88	-862.43	958.70	947.02	11.69	82.039		
1,100.00	1,086.20	1,205.74	1,188.68	5.81	7.07	-144.17	52.14	-847.04	965.51	952.81	12.70	76.010		
1,200.00	1,182.69	1,304.58	1,282.76	6.24	7.72	-146.61	25.86	-831.97	973.06	959.32	13.73	70.851		
1,300.00	1,279.18	1,401.03	1,374.24	6.69	8.39	-148.99	-0.50	-816.53	981.71	966.90	14.80	66.314		
1,400.00	1,375.67	1,495.51	1,463.93	7.15	9.07	-151.27	-25.84	-800.99	991.67	975.78	15.89	62.396		
1,500.00	1,472.15	1,591.93	1,555.52	7.62	9.77	-153.52	-51.20	-784.76	1,002.89	985.87	17.02	58.919		
1,600.00	1,568.64	1,678.16	1,637.41	8.10	10.40	-155.50	-73.92	-770.15	1,015.61	997.52	18.10	56.121		
1,700.00	1,665.13	1,776.95	1,731.35	8.59	11.13	-157.70	-99.55	-753.45	1,029.83	1,010.55	19.28	53.422		
1,800.00	1,761.62	1,868.55	1,818.64	9.08	11.81	-159.64	-122.46	-737.77	1,045.05	1,024.65	20.41	51.215		
1,900.00	1,858.11	1,962.61	1,908.62	9.58	12.49	-161.52	-144.79	-721.91	1,061.45	1,039.91	21.54	49.271		
2,000.00	1,954.60	2,030.56	1,973.56	10.08	12.99	-162.87	-161.59	-711.05	1,080.07	1,057.59	22.49	48.035		
2,100.00	2,051.09	2,103.63	2,043.31	10.59	13.53	-164.31	-180.61	-700.42	1,101.55	1,078.10	23.46	46.957		
2,200.00	2,147.57	2,191.19	2,127.04	11.09	14.18	-165.95	-203.39	-688.80	1,125.23	1,100.68	24.55	45.838		
2,300.00	2,244.06	2,303.35	2,234.37	11.61	15.00	-167.97	-231.93	-673.15	1,149.19	1,123.34	25.85	44.452		
2,400.00	2,340.55	2,395.91	2,322.91	12.12	15.69	-169.56	-255.04	-659.21	1,172.99	1,146.00	26.99	43.468		
2,500.00	2,437.04	2,481.63	2,404.89	12.64	16.33	-170.99	-276.59	-646.45	1,197.91	1,169.85	28.05	42.699		
2,600.00	2,533.53	2,579.03	2,498.09	13.15	17.05	-172.55	-300.96	-632.04	1,223.70	1,194.47	29.23	41.870		
2,700.00	2,630.02	2,644.95	2,561.04	13.67	17.55	-173.59	-318.06	-622.54	1,251.02	1,220.92	30.10	41.562		
2,800.00	2,726.50	2,729.17	2,641.02	14.19	18.21	-174.93	-341.62	-610.66	1,280.36	1,249.20	31.16	41.091		
2,900.00	2,822.99	2,838.63	2,744.72	14.72	19.08	-176.63	-372.58	-594.26	1,310.06	1,277.57	32.49	40.326		
3,000.00	2,919.48	2,934.82	2,836.58	15.24	19.81	-177.97	-397.33	-580.13	1,339.31	1,305.67	33.64	39.809		
3,100.00	3,015.97	2,997.40	2,896.40	15.76	20.29	-178.79	-413.59	-571.58	1,370.10	1,335.66	34.44	39.780		
3,200.00	3,112.46	3,087.45	2,982.13	16.29	20.98	-179.98	-438.46	-559.66	1,402.68	1,367.16	35.53	39.481		
3,300.00	3,208.95	3,211.28	3,100.61	16.81	21.91	178.53	-470.33	-543.01	1,434.61	1,397.66	36.95	38.824		
3,400.00	3,305.44	3,323.10	3,208.29	17.34	22.71	177.34	-496.13	-527.47	1,465.04	1,426.83	38.21	38.340		
3,500.00	3,401.92	3,371.00	3,254.65	17.87	23.04	176.88	-506.38	-521.12	1,496.01	1,457.19	38.82	38.539		
3,600.00	3,498.41	3,371.00	3,254.65	18.40	23.04	176.88	-506.38	-521.12	1,532.19	1,493.35	38.83	39.455		
3,700.00	3,594.90	3,371.00	3,254.65	18.93	23.04	176.88	-506.38	-521.12	1,573.90	1,535.18	38.72	40.649		
3,800.00	3,691.39	3,826.32	3,557.92	19.46	26.42	169.65	-675.05	-414.51	1,615.54	1,572.26	43.28	37.330		
3,900.00	3,787.88	3,940.31	3,668.82	19.99	27.17	168.91	-696.62	-399.38	1,646.60	1,602.12	44.48	37.016		
4,000.00	3,884.37	4,036.40	3,762.64	20.52	27.76	168.35	-713.32	-387.09	1,677.01	1,631.51	45.50	36.856		
4,100.00	3,980.85	4,126.19	3,851.04	21.05	28.27	167.99	-726.70	-378.83	1,707.93	1,661.51	46.42	36.791		
4,200.00	4,077.34	4,224.35	3,948.22	21.58	28.77	167.73	-738.93	-372.42	1,738.76	1,691.40	47.37	36.710		
4,300.00	4,173.83	4,366.10	4,089.04	22.11	29.42	167.49	-753.14	-364.87	1,768.69	1,720.10	48.59	36.401		
4,390.25	4,260.91	4,463.05	4,185.70	22.59	29.81	167.44	-759.48	-360.93	1,793.98	1,744.55	49.43	36.295		
4,400.00	4,270.32	4,473.66	4,196.29	22.64	29.85	167.45	-760.04	-360.60	1,796.67	1,747.15	49.52	36.284		
4,500.00	4,367.33	4,583.50	4,305.99	23.16	30.25	167.59	-764.74	-357.88	1,822.03	1,771.61	50.41	36.143		
4,600.00	4,465.13	4,713.36	4,435.83	23.65	30.64	167.80	-766.49	-356.97	1,843.03	1,791.69	51.34	35.896		
4,700.00	4,563.60	4,801.30	4,523.77	24.12	30.86	167.99	-766.07	-357.35	1,859.98	1,807.97	52.01	35.764		
4,800.00	4,662.61	4,896.38	4,618.84	24.56	31.09	168.17	-765.58	-358.35	1,873.94	1,821.25	52.69	35.567		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - WIEDEMAN #6-5 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 16-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,762.05	5,000.24	4,722.68	24.98	31.35	168.34	-764.61	-359.88	1,884.47	1,831.08	53.40	35.293		
5,000.00	4,861.80	5,101.95	4,824.37	25.38	31.60	168.47	-763.23	-361.57	1,891.40	1,837.32	54.08	34.976		
5,100.00	4,961.73	5,201.11	4,923.48	25.76	31.84	168.60	-761.27	-363.96	1,894.94	1,840.20	54.73	34.622		
5,151.69	5,013.42	5,251.15	4,973.49	25.95	31.96	-139.45	-760.22	-365.24	1,895.43	1,840.37	55.06	34.426		
5,200.00	5,061.73	5,290.78	5,013.11	26.13	32.06	-139.42	-759.61	-366.19	1,895.62	1,840.29	55.33	34.261		
5,300.00	5,161.73	5,377.21	5,099.51	26.49	32.29	-139.37	-759.22	-368.02	1,896.65	1,840.73	55.92	33.920		
5,400.00	5,261.73	5,493.67	5,215.95	26.86	32.61	-139.31	-758.97	-370.41	1,897.87	1,841.20	56.66	33.494		
5,500.00	5,361.73	5,622.59	5,344.83	27.23	32.95	-139.22	-756.68	-372.43	1,897.54	1,840.07	57.46	33.022		
5,600.00	5,461.73	5,731.98	5,454.18	27.60	33.24	-139.14	-753.83	-373.14	1,895.96	1,837.79	58.18	32.590		
5,700.00	5,561.73	5,815.37	5,537.54	27.97	33.46	-139.17	-751.68	-374.10	1,894.78	1,836.00	58.77	32.238		
5,756.94	5,618.67	5,859.51	5,581.67	28.18	33.59	-139.05	-750.93	-374.73	1,894.59	1,835.49	59.10	32.058		
5,800.00	5,661.73	5,896.76	5,618.91	28.35	33.70	-139.03	-750.58	-375.25	1,894.67	1,835.30	59.37	31.913		
5,900.00	5,761.73	5,989.83	5,711.98	28.72	34.00	-139.04	-751.14	-375.35	1,895.19	1,835.14	60.05	31.559		
6,000.00	5,861.73	6,091.14	5,813.25	29.10	34.36	-139.12	-753.49	-373.73	1,895.90	1,835.09	60.81	31.176		
6,100.00	5,961.73	6,202.32	5,924.41	29.48	34.75	-139.17	-754.90	-372.67	1,896.24	1,834.62	61.63	30.770		
6,200.00	6,061.73	6,306.25	6,028.34	29.86	35.10	-139.18	-754.95	-372.40	1,896.11	1,833.72	62.38	30.395		
6,271.56	6,133.28	6,374.19	6,096.28	30.14	35.31	-139.18	-754.82	-372.44	1,896.03	1,833.15	62.88	30.153		
6,300.00	6,161.73	6,400.97	6,123.06	30.25	35.40	-139.17	-754.65	-372.65	1,896.04	1,832.96	63.08	30.059		
6,400.00	6,261.73	6,513.12	6,235.17	30.63	35.72	-139.09	-752.66	-374.45	1,895.74	1,831.91	63.84	29.697		
6,451.69	6,313.42	6,565.25	6,287.26	30.83	35.87	-139.03	-751.13	-375.78	1,895.45	1,831.26	64.20	29.525		
6,500.00	6,361.68	6,614.11	6,336.07	31.01	36.00	-46.64	-749.44	-377.28	1,893.91	1,829.39	64.52	29.353		
6,550.00	6,411.34	6,664.58	6,386.47	31.20	36.14	-46.97	-747.50	-379.05	1,889.65	1,824.82	64.84	29.145		
6,600.00	6,460.39	6,738.61	6,460.41	31.38	36.35	-47.67	-744.43	-381.19	1,882.45	1,817.21	65.25	28.851		
6,650.00	6,508.54	6,787.46	6,509.22	31.58	36.49	-48.62	-742.48	-381.80	1,872.20	1,806.66	65.54	28.567		
6,700.00	6,555.48	6,823.93	6,545.67	31.78	36.59	-49.77	-741.40	-382.09	1,859.69	1,793.93	65.76	28.278		
6,750.00	6,600.93	6,851.00	6,572.73	31.98	36.67	-51.08	-740.83	-382.23	1,845.12	1,779.19	65.94	27.983		
6,800.00	6,644.61	6,886.59	6,608.31	32.20	36.79	-52.75	-740.40	-382.46	1,828.65	1,762.50	66.15	27.644		
6,850.00	6,686.25	6,914.08	6,635.80	32.44	36.87	-54.56	-740.28	-382.75	1,810.52	1,744.20	66.32	27.301		
6,900.00	6,725.58	6,941.00	6,662.72	32.68	36.96	-56.62	-740.36	-383.14	1,790.85	1,724.37	66.48	26.937		
6,950.00	6,762.38	6,974.53	6,696.25	32.96	37.07	-59.06	-740.53	-383.79	1,769.73	1,703.03	66.70	26.534		
7,000.00	6,796.41	7,007.03	6,728.74	33.25	37.17	-61.77	-740.60	-384.63	1,747.25	1,680.33	66.92	26.108		
7,050.00	6,827.46	7,039.08	6,760.77	33.58	37.27	-64.74	-740.57	-385.65	1,723.64	1,656.47	67.17	25.660		
7,100.00	6,855.34	7,072.94	6,794.61	33.93	37.38	-68.03	-740.35	-386.90	1,699.07	1,631.61	67.46	25.185		
7,150.00	6,879.88	7,103.43	6,825.06	34.33	37.47	-71.45	-739.97	-388.15	1,673.81	1,606.03	67.78	24.695		
7,200.00	6,900.93	7,131.68	6,853.29	34.76	37.55	-74.98	-739.45	-389.44	1,648.15	1,580.03	68.13	24.193		
7,250.00	6,918.36	7,158.02	6,879.58	35.23	37.62	-78.57	-738.72	-390.86	1,622.38	1,553.86	68.51	23.680		
7,300.00	6,932.05	7,180.41	6,901.90	35.74	37.69	-82.07	-737.89	-392.25	1,596.79	1,527.85	68.94	23.163		
7,350.00	6,941.94	7,198.50	6,919.93	36.29	37.74	-85.38	-737.08	-393.48	1,571.71	1,502.31	69.40	22.648		
7,400.00	6,947.94	7,211.92	6,933.30	36.87	37.78	-88.43	-736.41	-394.47	1,547.44	1,477.55	69.89	22.140		
7,450.00	6,950.04	7,220.31	6,941.65	37.47	37.80	-91.13	-735.95	-395.12	1,524.27	1,453.86	70.42	21.647		
7,458.56	6,950.00	7,221.21	6,942.55	37.58	37.80	-91.55	-735.90	-395.19	1,520.44	1,449.93	70.51	21.564		
7,500.00	6,949.56	7,225.27	6,946.59	38.11	37.81	-91.72	-735.67	-395.52	1,502.41	1,431.44	70.98	21.168		
7,600.00	6,948.48	7,227.90	6,949.22	39.51	37.82	-91.83	-735.59	-395.62	1,462.86	1,390.62	72.24	20.251		
7,700.00	6,947.40	7,234.15	6,955.44	41.06	37.84	-92.10	-735.27	-396.05	1,429.18	1,355.47	73.71	19.390		
7,800.00	6,946.32	7,240.09	6,961.37	42.74	37.85	-92.35	-734.96	-396.46	1,401.81	1,326.48	75.33	18.608		
7,900.00	6,945.24	7,245.75	6,967.01	44.55	37.87	-92.58	-734.67	-396.83	1,381.14	1,304.06	77.07	17.920		
8,000.00	6,944.16	7,251.16	6,972.39	46.46	37.88	-92.81	-734.39	-397.19	1,367.46	1,288.58	78.88	17.336		
8,100.00	6,943.08	7,256.31	6,977.53	48.47	37.90	-93.03	-734.12	-397.52	1,360.99	1,280.29	80.70	16.866		
8,138.48	6,942.67	7,258.24	6,979.45	49.27	37.90	-93.11	-734.03	-397.64	1,360.45	1,279.05	81.40	16.714		
8,200.00	6,942.01	7,261.25	6,982.45	50.55	37.91	-93.24	-733.87	-397.83	1,361.83	1,279.35	82.48	16.511		
8,300.00	6,940.93	7,265.96	6,987.15	52.71	37.92	-93.43	-733.63	-398.12	1,369.98	1,285.79	84.19	16.273		
8,400.00	6,939.85	7,270.49	6,991.66	54.93	37.93	-93.62	-733.39	-398.40	1,385.30	1,299.51	85.79	16.148		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - WIEDEMAN #6-5 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 16-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,500.00	6,938.77	7,274.82	6,995.98	57.20	37.95	-93.81	-733.17	-398.66	1,407.55	1,320.30	87.25	16.132 SF		
8,600.00	6,937.69	7,278.98	7,000.12	59.53	37.96	-93.98	-732.96	-398.90	1,436.43	1,347.85	88.58	16.217		
8,700.00	6,936.61	7,282.97	7,004.10	61.89	37.97	-94.15	-732.75	-399.14	1,471.54	1,381.79	89.75	16.396		
8,800.00	6,935.54	7,286.81	7,007.93	64.30	37.98	-94.31	-732.55	-399.36	1,512.44	1,421.67	90.77	16.662		
8,900.00	6,934.46	7,290.50	7,011.61	66.74	37.99	-94.47	-732.36	-399.56	1,558.68	1,467.04	91.65	17.008		
9,000.00	6,933.38	7,294.05	7,015.15	69.21	38.00	-94.62	-732.18	-399.76	1,609.81	1,517.42	92.39	17.425		
9,100.00	6,932.30	7,297.72	7,018.81	71.71	38.01	-94.77	-731.99	-399.96	1,665.36	1,572.36	93.00	17.907		
9,200.00	6,931.22	7,302.87	7,023.95	74.23	38.02	-94.99	-731.72	-400.24	1,724.92	1,631.42	93.51	18.447		
9,300.00	6,930.14	7,308.08	7,029.14	76.78	38.04	-95.21	-731.45	-400.53	1,788.08	1,694.17	93.91	19.040		
9,400.00	6,929.06	7,313.36	7,034.40	79.34	38.05	-95.43	-731.17	-400.82	1,854.47	1,760.24	94.23	19.679		
9,500.00	6,927.99	7,318.70	7,039.72	81.93	38.07	-95.65	-730.89	-401.12	1,923.76	1,829.28	94.48	20.361		
9,600.00	6,926.91	7,324.10	7,045.11	84.53	38.08	-95.88	-730.59	-401.42	1,995.65	1,900.98	94.67	21.080		
9,700.00	6,925.83	7,329.57	7,050.57	87.14	38.10	-96.11	-730.30	-401.72	2,069.86	1,975.05	94.80	21.833		
9,800.00	6,924.75	7,335.11	7,056.09	89.77	38.11	-96.34	-729.99	-402.04	2,146.15	2,051.25	94.90	22.616		
9,900.00	6,923.67	7,340.72	7,061.68	92.41	38.13	-96.58	-729.68	-402.35	2,224.31	2,129.36	94.95	23.426		
10,000.00	6,922.59	7,346.40	7,067.34	95.07	38.14	-96.81	-729.36	-402.68	2,304.15	2,209.17	94.98	24.260		
10,100.00	6,921.51	7,352.15	7,073.08	97.73	38.16	-97.05	-729.03	-403.01	2,385.50	2,290.52	94.98	25.117		
10,200.00	6,920.44	7,357.98	7,078.88	100.40	38.17	-97.30	-728.70	-403.34	2,468.21	2,373.25	94.96	25.993		
10,300.00	6,919.36	7,363.88	7,084.76	103.08	38.19	-97.55	-728.35	-403.68	2,552.15	2,457.22	94.92	26.886		
10,400.00	6,918.28	7,369.85	7,090.72	105.77	38.21	-97.80	-728.00	-404.03	2,637.20	2,542.32	94.88	27.796		
10,500.00	6,917.20	7,375.91	7,096.75	108.47	38.22	-98.05	-727.64	-404.39	2,723.25	2,628.43	94.82	28.721		
10,600.00	6,916.12	7,382.04	7,102.86	111.18	38.24	-98.30	-727.28	-404.75	2,810.22	2,715.46	94.75	29.658		
10,700.00	6,915.04	7,388.26	7,109.05	113.89	38.26	-98.56	-726.90	-405.11	2,898.02	2,803.33	94.68	30.608		
10,800.00	6,913.96	7,394.55	7,115.33	116.61	38.27	-98.83	-726.51	-405.49	2,986.58	2,891.97	94.61	31.568		
10,900.00	6,912.89	7,400.93	7,121.68	119.33	38.29	-99.09	-726.12	-405.87	3,075.82	2,981.29	94.53	32.538		
11,000.00	6,911.81	7,407.40	7,128.13	122.06	38.31	-99.36	-725.72	-406.26	3,165.71	3,071.25	94.45	33.517		
11,100.00	6,910.73	7,413.95	7,134.65	124.79	38.33	-99.64	-725.30	-406.65	3,256.17	3,161.80	94.37	34.503		
11,200.00	6,909.65	7,420.59	7,141.27	127.53	38.35	-99.91	-724.88	-407.06	3,347.17	3,252.87	94.29	35.498		
11,300.00	6,908.57	7,427.33	7,147.98	130.27	38.36	-100.19	-724.44	-407.47	3,438.65	3,344.44	94.21	36.499		
11,400.00	6,907.49	7,434.00	7,154.74	133.02	38.37	-99.45	-724.00	-407.89	3,530.66	3,432.58	94.13	37.507		
11,500.00	6,906.41	7,440.74	7,161.54	135.77	38.38	-99.64	-723.53	-408.32	3,623.05	3,515.78	94.05	38.521		
11,600.00	6,905.34	7,447.54	7,168.47	138.52	38.39	-99.82	-723.03	-408.76	3,715.83	3,608.36	93.97	39.540		
11,700.00	6,904.26	7,454.40	7,175.43	141.28	38.40	-99.99	-722.50	-409.21	3,809.00	3,701.06	93.94	40.564		
11,800.00	6,903.18	7,461.33	7,182.42	144.04	38.41	-99.99	-722.00	-409.67	3,902.49	3,808.63	93.87	41.575		
11,900.00	6,902.10	7,468.33	7,189.43	146.80	38.42	-99.99	-721.50	-410.14	3,996.30	3,922.50	93.80	42.605		
12,000.00	6,901.02	7,475.40	7,196.46	149.57	38.43	-99.99	-721.00	-410.62	4,090.40	4,036.67	93.73	43.638		
12,100.00	6,899.94	7,482.54	7,203.51	152.34	38.44	-99.99	-720.50	-411.11	4,184.78	4,151.11	93.67	44.675		
12,200.00	6,898.87	7,489.74	7,210.58	155.11	38.45	-99.99	-720.00	-411.61	4,279.41	4,266.50	93.61	45.715		
12,300.00	6,897.79	7,497.00	7,217.67	157.89	38.46	-99.99	-719.50	-412.11	4,374.28	4,382.72	93.55	46.758		
12,400.00	6,896.71	7,504.33	7,224.78	160.66	38.47	-99.99	-719.00	-412.62	4,469.37	4,499.87	93.50	47.803		
12,500.00	6,895.63	7,511.74	7,231.91	163.44	38.48	-99.99	-718.50	-413.13	4,564.67	4,617.97	93.44	48.850		
12,600.00	6,894.55	7,519.21	7,239.06	166.22	38.49	-99.99	-718.00	-413.65	4,660.17	4,737.11	93.39	49.899		
12,700.00	6,893.47	7,526.74	7,246.23	169.00	38.50	-99.99	-717.50	-414.17	4,755.86	4,857.30	93.34	50.950		
12,800.00	6,892.39	7,534.33	7,253.42	171.79	38.51	-99.99	-717.00	-414.70	4,851.71	4,978.54	93.30	52.003		
12,900.00	6,891.32	7,542.00	7,260.63	174.57	38.52	-99.99	-716.50	-415.23	4,947.74	5,100.83	93.25	53.057		
13,000.00	6,890.24	7,549.74	7,267.86	177.36	38.53	-99.99	-716.00	-415.77	5,043.91	5,224.17	93.21	54.112		
13,100.00	6,889.16	7,557.54	7,275.11	180.15	38.54	-99.99	-715.50	-416.31	5,140.24	5,347.56	93.17	55.168		
13,200.00	6,888.08	7,565.40	7,282.38	182.94	38.55	-99.99	-715.00	-416.86	5,236.70	5,471.99	93.14	56.226		
13,300.00	6,887.00	7,573.33	7,289.67	185.74	38.56	-99.99	-714.50	-417.41	5,333.29	5,597.47	93.10	57.284		
13,400.00	6,885.92	7,581.33	7,296.98	188.53	38.57	-99.99	-714.00	-417.96	5,430.00	5,723.99	93.07	58.342		
13,500.00	6,884.84	7,589.40	7,304.31	191.32	38.58	-99.99	-713.50	-418.51	5,526.84	5,851.56	93.04	59.402		
13,600.00	6,883.77	7,597.54	7,311.66	194.12	38.59	-99.99	-713.00	-419.06	5,623.78	5,980.19	93.01	60.461		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

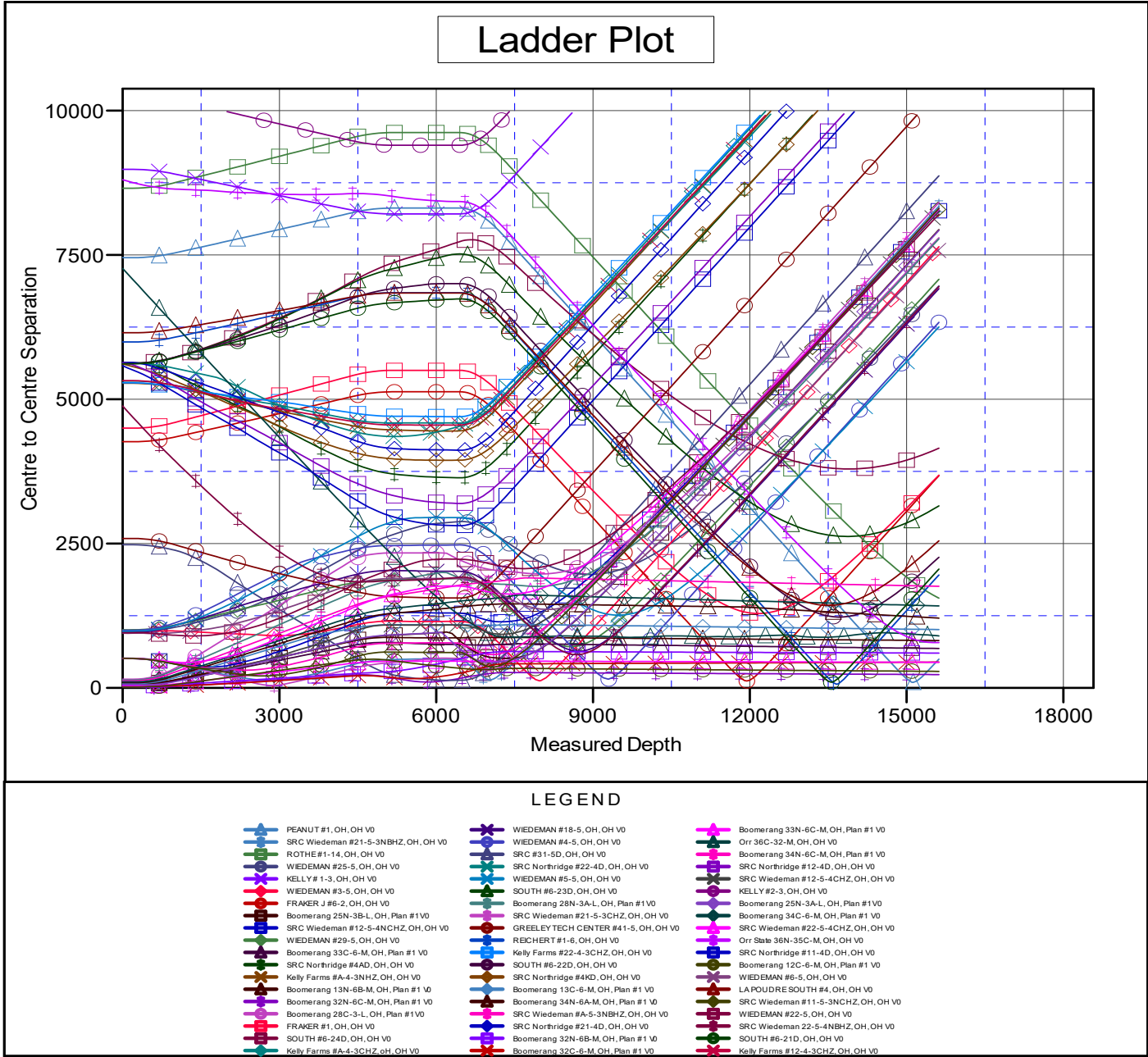
Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Boomerang 21-5 - WIEDEMAN #6-5 - OH - OH	Offset Site Error:	0.00 ft
Survey Program: 16-MWD														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
							+N/-S (ft)	+E/-W (ft)							
13,700.00	6,882.69	7,408.00	7,128.73	196.92	38.31	-99.39	-725.68	-406.29	5,720.83	5,627.84	92.99	61.521			
13,800.00	6,881.61	7,408.00	7,128.73	199.72	38.31	-99.39	-725.68	-406.29	5,817.97	5,725.01	92.97	62.582			
13,900.00	6,880.53	7,408.00	7,128.73	202.52	38.31	-99.39	-725.68	-406.29	5,915.22	5,822.27	92.95	63.642			
14,000.00	6,879.45	7,408.00	7,128.73	205.32	38.31	-99.39	-725.68	-406.29	6,012.55	5,919.62	92.93	64.702			
14,100.00	6,878.37	7,408.00	7,128.73	208.12	38.31	-99.39	-725.68	-406.29	6,109.97	6,017.06	92.91	65.762			
14,200.00	6,877.29	7,408.00	7,128.73	210.92	38.31	-99.39	-725.68	-406.29	6,207.47	6,114.58	92.89	66.822			
14,300.00	6,876.22	7,408.00	7,128.73	213.73	38.31	-99.39	-725.68	-406.29	6,305.05	6,212.17	92.88	67.882			
14,400.00	6,875.14	7,408.00	7,128.73	216.53	38.31	-99.39	-725.68	-406.29	6,402.70	6,309.83	92.87	68.942			
14,500.00	6,874.06	7,408.00	7,128.73	219.34	38.31	-99.39	-725.68	-406.29	6,500.43	6,407.57	92.86	70.001			
14,600.00	6,872.98	7,408.00	7,128.73	222.15	38.31	-99.39	-725.68	-406.29	6,598.22	6,505.37	92.85	71.059			
14,700.00	6,871.90	7,408.00	7,128.73	224.95	38.31	-99.39	-725.68	-406.29	6,696.08	6,603.23	92.85	72.118			
14,800.00	6,870.82	7,408.00	7,128.73	227.76	38.31	-99.39	-725.68	-406.29	6,794.01	6,701.16	92.85	73.175			
14,900.00	6,869.75	7,408.00	7,128.73	230.57	38.31	-99.39	-725.68	-406.29	6,891.99	6,799.14	92.84	74.232			
15,000.00	6,868.67	7,408.00	7,128.73	233.38	38.31	-99.39	-725.68	-406.29	6,990.02	6,897.18	92.84	75.288			
15,100.00	6,867.59	7,408.00	7,128.73	236.19	38.31	-99.39	-725.68	-406.29	7,088.12	6,995.27	92.85	76.343			
15,200.00	6,866.51	7,408.00	7,128.73	239.00	38.31	-99.39	-725.68	-406.29	7,186.26	7,093.41	92.85	77.398			
15,300.00	6,865.43	7,408.00	7,128.73	241.81	38.31	-99.39	-725.68	-406.29	7,284.46	7,191.61	92.85	78.451			
15,400.00	6,864.35	7,408.00	7,128.73	244.63	38.31	-99.39	-725.68	-406.29	7,382.70	7,289.84	92.86	79.504			
15,500.00	6,863.27	7,408.00	7,128.73	247.44	38.31	-99.39	-725.68	-406.29	7,480.99	7,388.13	92.87	80.556			
15,600.00	6,862.20	7,408.00	7,128.73	250.25	38.31	-99.39	-725.68	-406.29	7,579.33	7,486.45	92.88	81.606			
15,618.10	6,862.00	7,408.00	7,128.73	250.76	38.31	-99.39	-725.68	-406.29	7,597.13	7,504.25	92.88	81.796			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 4770+KB 20 @ 4790.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.5000000

Coordinates are relative to: Boomerang 12N-6B-M
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.45°



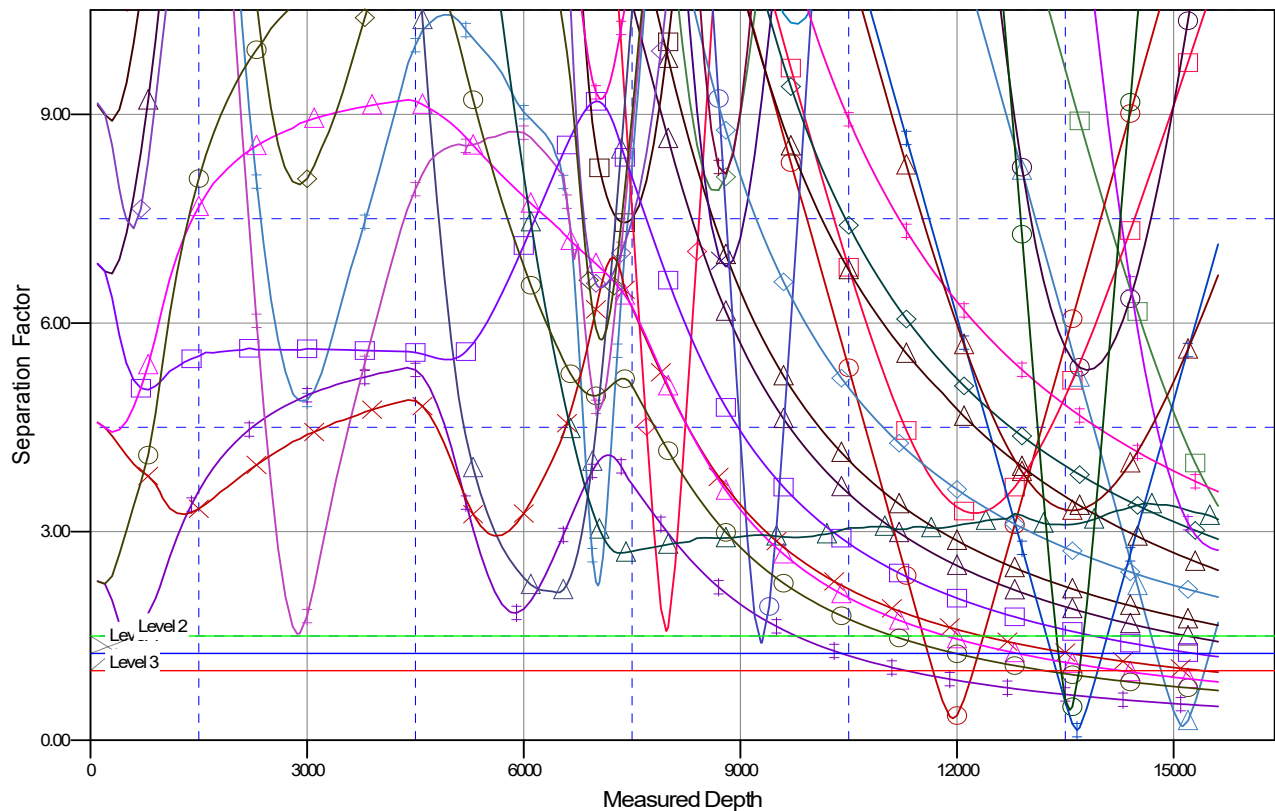
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 12N-6B-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 12N-6B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 4770+KB 20 @ 4790.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.5000000

Coordinates are relative to: Boomerang 12N-6B-M
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.45°

Separation Factor Plot



LEGEND

- | | | |
|-------------------------------------|--------------------------------------|-------------------------------------|
| PEANUT #1, OH, OH V0 | WIEDEMAN #18-5, OH, OH V0 | Boomerang 33N-6C-M, OH, Plan #1 V0 |
| SRC Wiedeman #21-5-3NBHZ, OH, OH V0 | WIEDEMAN #4-5, OH, OH V0 | Orr 36C-32-M, OH, OH V0 |
| ROTHE #1-14, OH, OH V0 | SRC #31-5D, OH, OH V0 | Boomerang 34N-6C-M, OH, Plan #1 V0 |
| WIEDEMAN #25-5, OH, OH V0 | SRC Northridge #22-4D, OH, OH V0 | SRC Northridge #12-4D, OH, OH V0 |
| KELLY #1-3, OH, OH V0 | WIEDEMAN #6-5, OH, OH V0 | SRC Wiedeman #12-5-4CHZ, OH, OH V0 |
| WIEDEMAN #3-5, OH, OH V0 | SOUTH #6-23D, OH, OH V0 | KELLY #2-3, OH, OH V0 |
| FRAKER J #6-2, OH, OH V0 | Boomerang 28N-3A-L, OH, Plan #1 V0 | Boomerang 25N-3A-L, OH, Plan #1 V0 |
| Boomerang 25N-3B-L, OH, Plan #1 V0 | SRC Wiedeman #21-5-3CHZ, OH, OH V0 | Boomerang 34C-6-M, OH, Plan #1 V0 |
| SRC Wiedeman #12-5-4NCHZ, OH, OH V0 | GREELEY TECH CENTER #41-5, OH, OH V0 | SRC Wiedeman #22-5-4CHZ, OH, OH V0 |
| WIEDEMAN #29-5, OH, OH V0 | RECHERT #1-6, OH, OH V0 | Orr State 36N-35C-M, OH, OH V0 |
| Boomerang 33C-6-M, OH, Plan #1 V0 | Kelly Farms #22-4-3CHZ, OH, OH V0 | SRC Northridge #11-4D, OH, OH V0 |
| SRC Northridge #4AD, OH, OH V0 | SOUTH #6-22D, OH, OH V0 | Boomerang 12C-6-M, OH, Plan #1 V0 |
| Kelly Farms #A-4-3NHZ, OH, OH V0 | SRC Northridge #4KD, OH, OH V0 | WIEDEMAN #6-5, OH, OH V0 |
| Boomerang 13N-6B-M, OH, Plan #1 V0 | Boomerang 13C-6-M, OH, Plan #1 V0 | LAPOUDRE SOUTH #4, OH, OH V0 |
| Boomerang 32N-6C-M, OH, Plan #1 V0 | Boomerang 34N-6A-M, OH, Plan #1 V0 | SRC Wiedeman #11-5-3NCHZ, OH, OH V0 |
| Boomerang 28C-3-L, OH, Plan #1 V0 | SRC Wiedeman #A-5-3NBHZ, OH, OH V0 | WIEDEMAN #22-5, OH, OH V0 |
| FRAKER #1, OH, OH V0 | SRC Northridge #21-4D, OH, OH V0 | SRC Wiedeman 22-5-4NBHZ, OH, OH V0 |
| SOUTH #6-24D, OH, OH V0 | Boomerang 32N-6B-M, OH, Plan #1 V0 | SOUTH #6-21D, OH, OH V0 |
| Kelly Farms #A-4-3CHZ, OH, OH V0 | Boomerang 32C-6-M, OH, Plan #1 V0 | Kelly Farms #12-4-3CHZ, OH, OH V0 |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation