



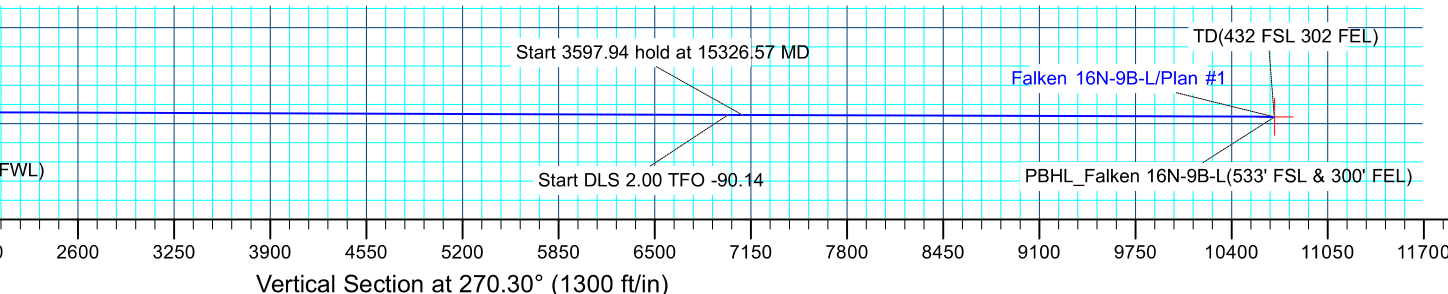
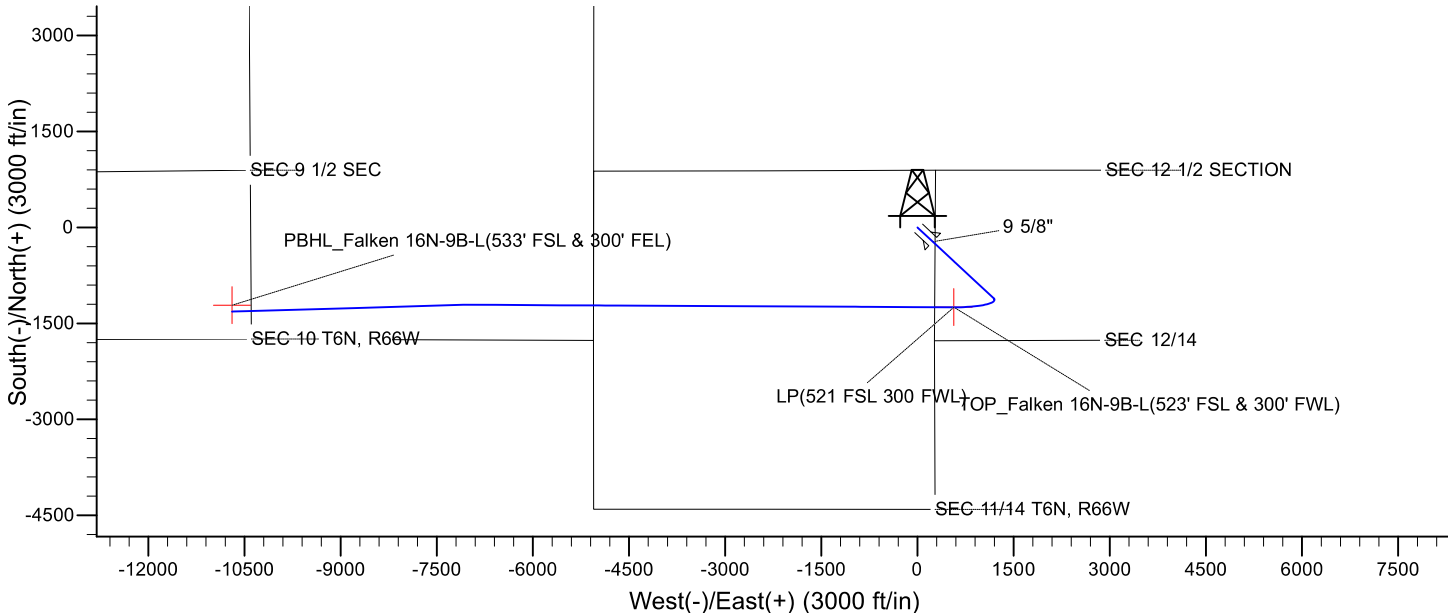
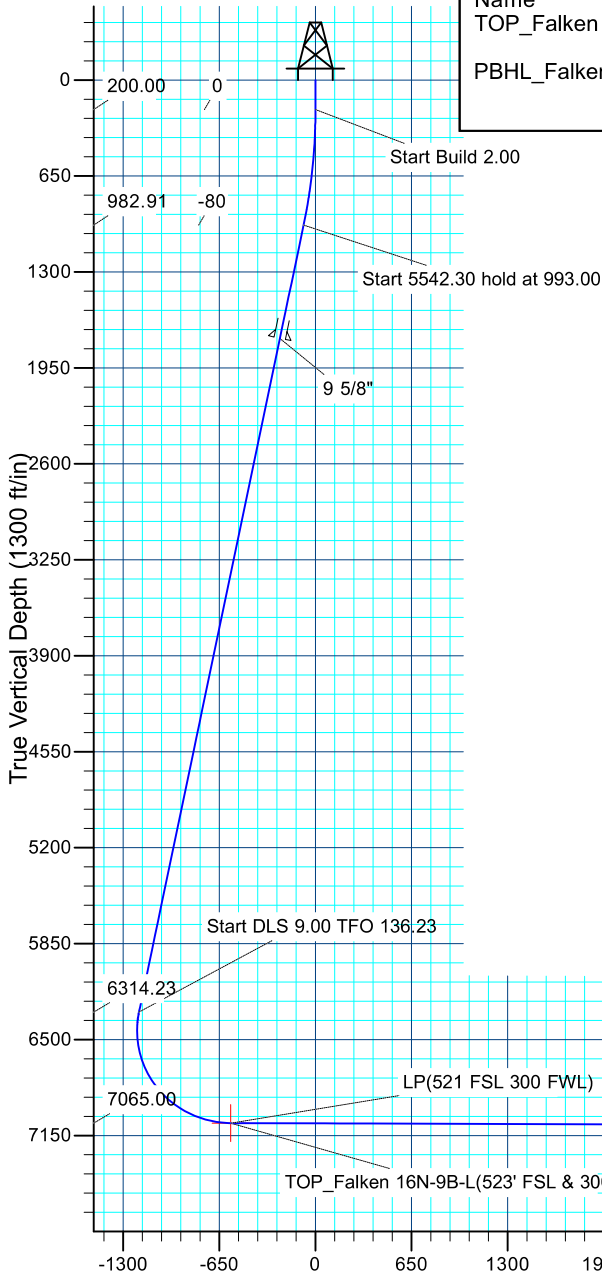
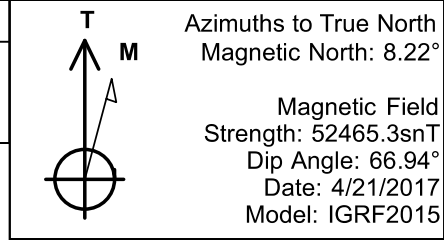
Project: SEC 12-13 T6N R66W
Site: Falken 9-11 PAD
Well: Falken 16N-9B-L
Wellbore: OH
Design: Plan #1

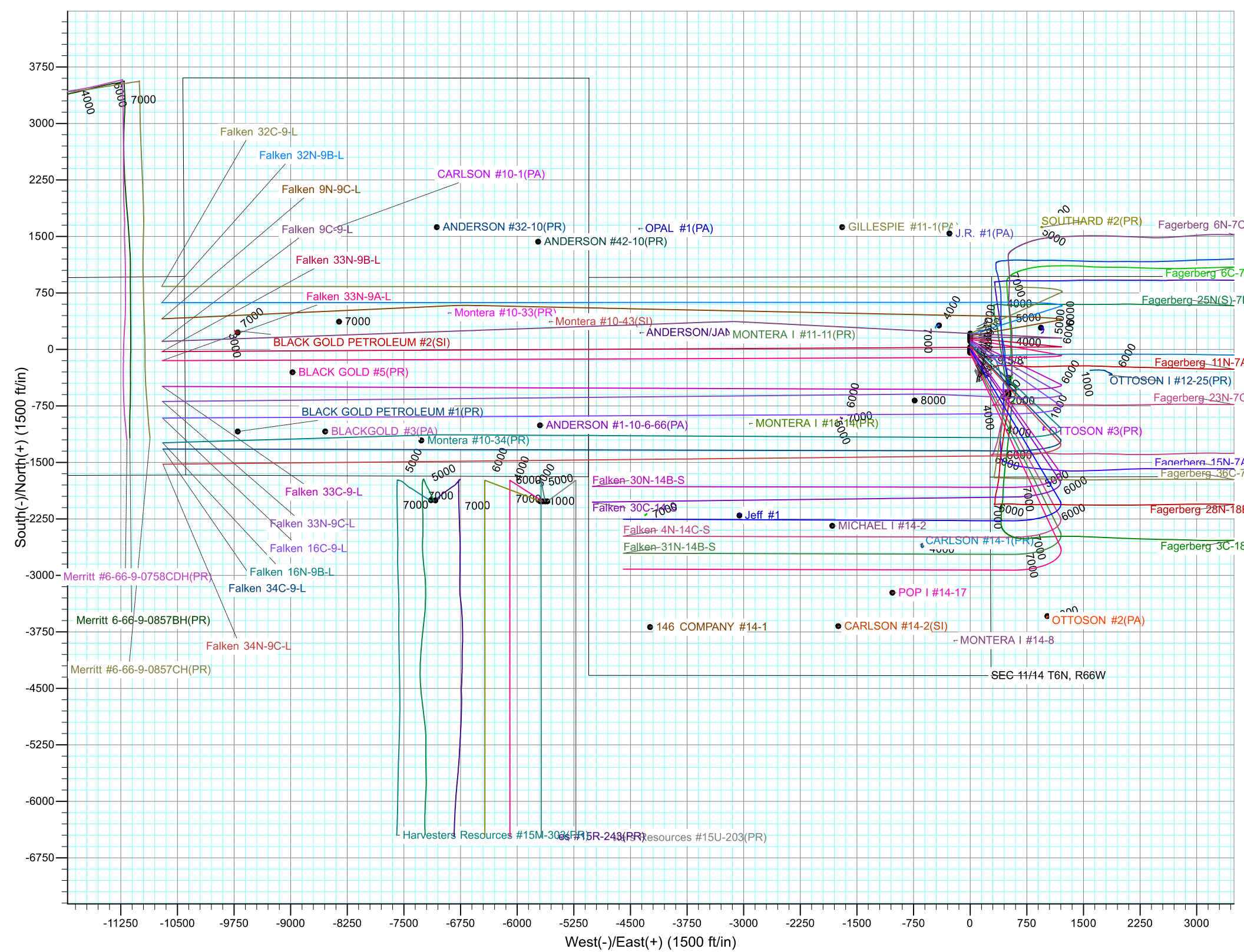
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
993.00	15.86	133.00	982.91	-74.38	79.76	2.00	133.00	-80.15	
6535.30	15.86	133.00	6314.23	-1107.36	1187.50	0.00	0.00	-1193.28	
7661.89	89.80	270.30	7065.00	-1248.23	565.25	9.00	136.23	-571.78	
15227.29	89.80	270.30	7091.00	-1208.55	-7000.00	0.00	0.00	6993.58	
15326.57	89.80	268.31	7091.35	-1209.75	-7099.27	2.00	-90.14	7092.84	
18924.51	89.80	268.31	7104.00	-1315.55	-10695.63	0.00	0.00	10688.60	PBHL_Falken 16N-9B-L

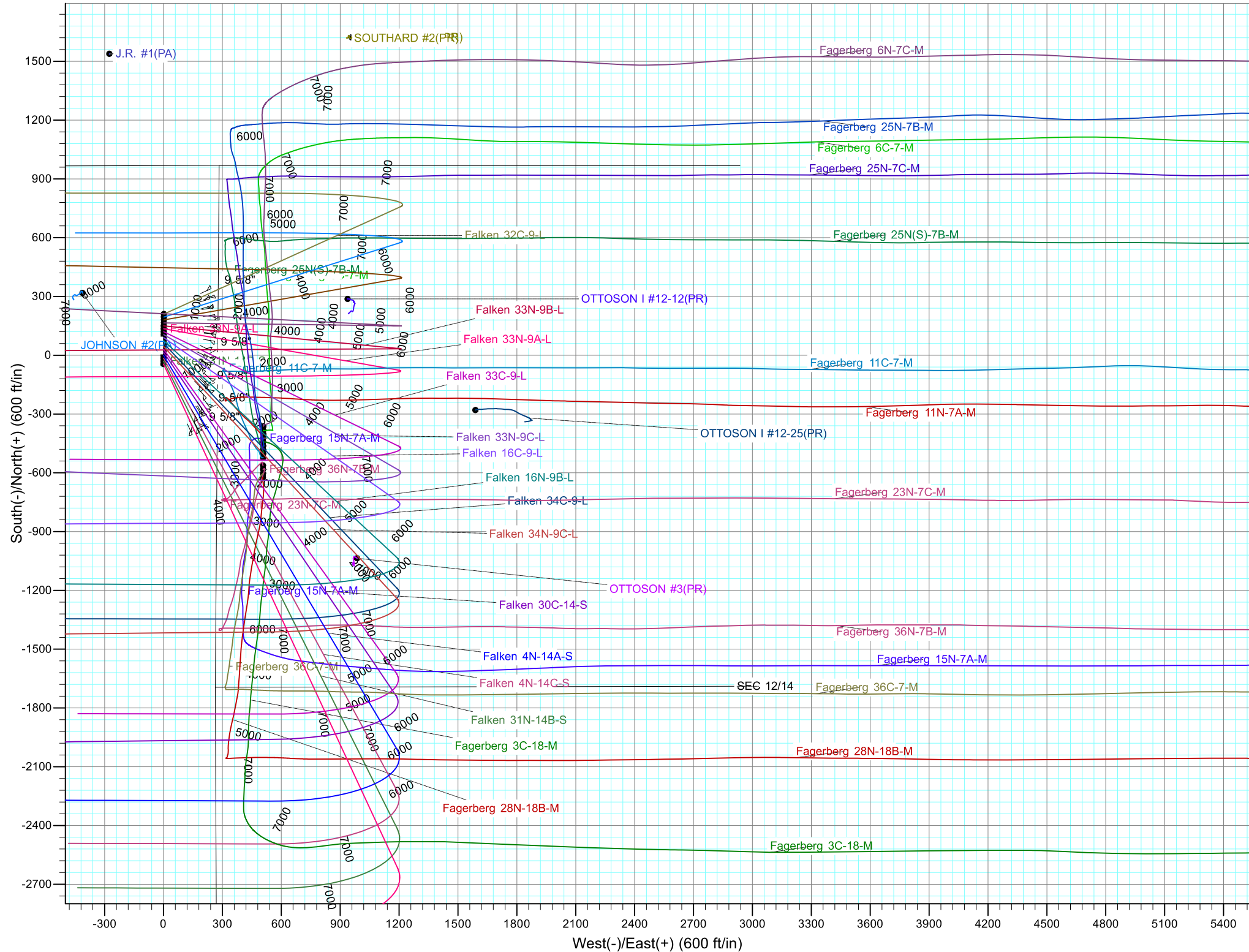
PROJECT DETAILS: SEC 12-13 T6N R66W									
Geodetic System: US State Plane 1983									
Datum: North American Datum 1983									
Ellipsoid: GRS 1980									
Zone: Colorado Northern Zone									
Colorado Northern Zone									
System Datum: Mean Sea Level									

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
TOP_Falken 16N-9B-L	7065.00	-1245.92	566.79	1424823.31	3213062.19	40.4970070	-104.7339110	Point	
- plan misses target center by 2.32ft at 7660.36ft MD (7064.99 TVD, -1248.24 N, 566.78 E)									
PBHL_Falken 16N-9B-L	7104.00	-1215.55	-10695.63	1424756.64	3201799.92	40.4970840	-104.7744070	Point	
- plan misses target center by 99.96ft at 18921.57ft MD (7103.99 TVD, -1315.46 N, -10692.69 E)									

CASING DETAILS			
TVD	MD	Name	Size
1750.00	1790.45	9 5/8"	9.625









Synergy Resources Corporation

SEC 12-13 T6N R66W

Falken 9-11 PAD

Falken 16N-9B-L

OH

Plan: Plan #1

Standard Planning Report

25 April, 2017



Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Falken 16N-9B-L
Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 16N-9B-L	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	SEC 12-13 T6N R66W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Falken 9-11 PAD			
Site Position:		Northing:	1,426,199.10 ft	Latitude: 40.5007970
From:	Lat/Long	Easting:	3,212,484.63 ft	Longitude: -104.7359450
Position Uncertainty:	3.28 ft	Slot Radius:	13.200 in	Grid Convergence: 0.49 °

Well	Falken 16N-9B-L, 1769' FSL & 276' FEL			
Well Position	+N/-S	-134.80 ft	Northing:	1,426,064.30 ft
	+E/-W	-1.11 ft	Easting:	3,212,484.68 ft
Position Uncertainty		3.28 ft	Wellhead Elevation:	
			Ground Level:	4,810.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/21/2017	8.22	66.94	52,465

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	270.30

Plan Survey Tool Program	Date	4/24/2017		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,924.49 Plan #1 (OH)	MWD+IFR1	
			OWSG MWD + IFR1	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
993.00	15.86	133.00	982.91	-74.38	79.76	2.00	2.00	0.00	133.00	
6,535.30	15.86	133.00	6,314.23	-1,107.36	1,187.50	0.00	0.00	0.00	0.00	
7,661.89	89.80	270.30	7,065.00	-1,248.23	565.25	9.00	6.56	12.19	136.23	
15,227.29	89.80	270.30	7,091.00	-1,208.55	-7,000.00	0.00	0.00	0.00	0.00	
15,326.57	89.80	268.31	7,091.35	-1,209.75	-7,099.27	2.00	0.00	-2.00	-90.14	
18,924.52	89.80	268.31	7,104.00	-1,315.55	-10,695.63	0.00	0.00	0.00	0.00	

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Falken 16N-9B-L
Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 16N-9B-L	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
300.00	2.00	133.00	299.98	-1.19	1.28	-1.28	2.00	2.00	0.00
400.00	4.00	133.00	399.84	-4.76	5.10	-5.13	2.00	2.00	0.00
500.00	6.00	133.00	499.45	-10.70	11.48	-11.53	2.00	2.00	0.00
600.00	8.00	133.00	598.70	-19.01	20.39	-20.49	2.00	2.00	0.00
700.00	10.00	133.00	697.47	-29.68	31.83	-31.99	2.00	2.00	0.00
800.00	12.00	133.00	795.62	-42.69	45.78	-46.01	2.00	2.00	0.00
900.00	14.00	133.00	893.06	-58.04	62.24	-62.54	2.00	2.00	0.00
993.00	15.86	133.00	982.91	-74.38	79.76	-80.15	2.00	2.00	0.00
Start 5542.30 hold at 993.00 MD									
1,000.00	15.86	133.00	989.65	-75.68	81.16	-81.55	0.00	0.00	0.00
1,100.00	15.86	133.00	1,085.84	-94.32	101.14	-101.64	0.00	0.00	0.00
1,200.00	15.86	133.00	1,182.03	-112.96	121.13	-121.72	0.00	0.00	0.00
1,300.00	15.86	133.00	1,278.22	-131.60	141.12	-141.81	0.00	0.00	0.00
1,400.00	15.86	133.00	1,374.42	-150.23	161.11	-161.89	0.00	0.00	0.00
1,500.00	15.86	133.00	1,470.61	-168.87	181.09	-181.97	0.00	0.00	0.00
1,600.00	15.86	133.00	1,566.80	-187.51	201.08	-202.06	0.00	0.00	0.00
1,700.00	15.86	133.00	1,663.00	-206.15	221.07	-222.14	0.00	0.00	0.00
1,790.45	15.86	133.00	1,750.00	-223.01	239.14	-240.31	0.00	0.00	0.00
9 5/8"									
1,800.00	15.86	133.00	1,759.19	-224.79	241.05	-242.23	0.00	0.00	0.00
1,900.00	15.86	133.00	1,855.38	-243.42	261.04	-262.31	0.00	0.00	0.00
2,000.00	15.86	133.00	1,951.58	-262.06	281.03	-282.40	0.00	0.00	0.00
2,100.00	15.86	133.00	2,047.77	-280.70	301.01	-302.48	0.00	0.00	0.00
2,200.00	15.86	133.00	2,143.96	-299.34	321.00	-322.56	0.00	0.00	0.00
2,300.00	15.86	133.00	2,240.16	-317.98	340.99	-342.65	0.00	0.00	0.00
2,400.00	15.86	133.00	2,336.35	-336.62	360.98	-362.73	0.00	0.00	0.00
2,500.00	15.86	133.00	2,432.54	-355.25	380.96	-382.82	0.00	0.00	0.00
2,600.00	15.86	133.00	2,528.74	-373.89	400.95	-402.90	0.00	0.00	0.00
2,700.00	15.86	133.00	2,624.93	-392.53	420.94	-422.99	0.00	0.00	0.00
2,800.00	15.86	133.00	2,721.12	-411.17	440.92	-443.07	0.00	0.00	0.00
2,900.00	15.86	133.00	2,817.32	-429.81	460.91	-463.15	0.00	0.00	0.00
3,000.00	15.86	133.00	2,913.51	-448.44	480.90	-483.24	0.00	0.00	0.00
3,100.00	15.86	133.00	3,009.70	-467.08	500.88	-503.32	0.00	0.00	0.00
3,200.00	15.86	133.00	3,105.90	-485.72	520.87	-523.41	0.00	0.00	0.00
3,300.00	15.86	133.00	3,202.09	-504.36	540.86	-543.49	0.00	0.00	0.00
3,400.00	15.86	133.00	3,298.28	-523.00	560.85	-563.58	0.00	0.00	0.00
3,500.00	15.86	133.00	3,394.48	-541.64	580.83	-583.66	0.00	0.00	0.00
3,600.00	15.86	133.00	3,490.67	-560.27	600.82	-603.74	0.00	0.00	0.00
3,700.00	15.86	133.00	3,586.86	-578.91	620.81	-623.83	0.00	0.00	0.00
3,800.00	15.86	133.00	3,683.06	-597.55	640.79	-643.91	0.00	0.00	0.00
3,900.00	15.86	133.00	3,779.25	-616.19	660.78	-664.00	0.00	0.00	0.00
4,000.00	15.86	133.00	3,875.44	-634.83	680.77	-684.08	0.00	0.00	0.00
4,100.00	15.86	133.00	3,971.64	-653.46	700.75	-704.17	0.00	0.00	0.00
4,200.00	15.86	133.00	4,067.83	-672.10	720.74	-724.25	0.00	0.00	0.00
4,300.00	15.86	133.00	4,164.02	-690.74	740.73	-744.34	0.00	0.00	0.00
4,400.00	15.86	133.00	4,260.22	-709.38	760.72	-764.42	0.00	0.00	0.00
4,500.00	15.86	133.00	4,356.41	-728.02	780.70	-784.50	0.00	0.00	0.00
4,600.00	15.86	133.00	4,452.60	-746.66	800.69	-804.59	0.00	0.00	0.00
4,700.00	15.86	133.00	4,548.79	-765.29	820.68	-824.67	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Falken 16N-9B-L
Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 16N-9B-L	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,800.00	15.86	133.00	4,644.99	-783.93	840.66	-844.76	0.00	0.00	0.00
4,900.00	15.86	133.00	4,741.18	-802.57	860.65	-864.84	0.00	0.00	0.00
5,000.00	15.86	133.00	4,837.37	-821.21	880.64	-884.93	0.00	0.00	0.00
5,100.00	15.86	133.00	4,933.57	-839.85	900.62	-905.01	0.00	0.00	0.00
5,200.00	15.86	133.00	5,029.76	-858.48	920.61	-925.09	0.00	0.00	0.00
5,300.00	15.86	133.00	5,125.95	-877.12	940.60	-945.18	0.00	0.00	0.00
5,400.00	15.86	133.00	5,222.15	-895.76	960.59	-965.26	0.00	0.00	0.00
5,500.00	15.86	133.00	5,318.34	-914.40	980.57	-985.35	0.00	0.00	0.00
5,600.00	15.86	133.00	5,414.53	-933.04	1,000.56	-1,005.43	0.00	0.00	0.00
5,700.00	15.86	133.00	5,510.73	-951.67	1,020.55	-1,025.52	0.00	0.00	0.00
5,800.00	15.86	133.00	5,606.92	-970.31	1,040.53	-1,045.60	0.00	0.00	0.00
5,900.00	15.86	133.00	5,703.11	-988.95	1,060.52	-1,065.68	0.00	0.00	0.00
6,000.00	15.86	133.00	5,799.31	-1,007.59	1,080.51	-1,085.77	0.00	0.00	0.00
6,100.00	15.86	133.00	5,895.50	-1,026.23	1,100.49	-1,105.85	0.00	0.00	0.00
6,200.00	15.86	133.00	5,991.69	-1,044.87	1,120.48	-1,125.94	0.00	0.00	0.00
6,300.00	15.86	133.00	6,087.89	-1,063.50	1,140.47	-1,146.02	0.00	0.00	0.00
6,400.00	15.86	133.00	6,184.08	-1,082.14	1,160.46	-1,166.11	0.00	0.00	0.00
6,500.00	15.86	133.00	6,280.27	-1,100.78	1,180.44	-1,186.19	0.00	0.00	0.00
6,535.30	15.86	133.00	6,314.23	-1,107.36	1,187.50	-1,193.28	0.00	0.00	0.00
Start DLS 9.00 TFO 136.23									
6,600.00	12.31	152.21	6,377.01	-1,119.50	1,197.19	-1,203.03	9.00	-5.48	29.69
6,700.00	11.36	196.96	6,475.08	-1,138.40	1,199.29	-1,205.24	9.00	-0.95	44.74
6,800.00	16.32	229.24	6,572.28	-1,157.03	1,185.75	-1,191.79	9.00	4.96	32.29
6,900.00	23.75	244.39	6,666.23	-1,174.95	1,156.88	-1,163.02	9.00	7.42	15.15
7,000.00	31.96	252.36	6,754.60	-1,191.71	1,113.42	-1,119.64	9.00	8.21	7.98
7,100.00	40.48	257.30	6,835.22	-1,206.89	1,056.41	-1,062.72	9.00	8.52	4.94
7,200.00	49.15	260.75	6,906.10	-1,220.13	987.28	-993.66	9.00	8.67	3.45
7,300.00	57.89	263.40	6,965.51	-1,231.10	907.72	-914.15	9.00	8.75	2.65
7,400.00	66.68	265.58	7,011.97	-1,239.52	819.69	-826.16	9.00	8.79	2.18
7,500.00	75.50	267.48	7,044.34	-1,245.20	725.35	-731.86	9.00	8.82	1.91
7,600.00	84.33	269.24	7,061.83	-1,247.99	627.04	-633.56	9.00	8.83	1.76
7,660.34	89.67	270.27	7,064.99	-1,248.24	566.80	-573.33	9.00	8.84	1.71
TOP_Falken 16N-9B-L(523' FSL & 300' FWL)									
7,661.89	89.80	270.30	7,065.00	-1,248.23	565.25	-571.78	9.00	8.84	1.70
LP(521 FSL 300 FWL)									
7,700.00	89.80	270.30	7,065.13	-1,248.03	527.14	-533.67	0.00	0.00	0.00
7,800.00	89.80	270.30	7,065.47	-1,247.51	427.14	-433.67	0.00	0.00	0.00
7,900.00	89.80	270.30	7,065.82	-1,246.98	327.15	-333.67	0.00	0.00	0.00
8,000.00	89.80	270.30	7,066.16	-1,246.46	227.15	-233.67	0.00	0.00	0.00
8,100.00	89.80	270.30	7,066.50	-1,245.93	127.15	-133.67	0.00	0.00	0.00
8,200.00	89.80	270.30	7,066.85	-1,245.41	27.15	-33.67	0.00	0.00	0.00
8,300.00	89.80	270.30	7,067.19	-1,244.88	-72.85	66.33	0.00	0.00	0.00
8,400.00	89.80	270.30	7,067.54	-1,244.36	-172.84	166.33	0.00	0.00	0.00
8,500.00	89.80	270.30	7,067.88	-1,243.83	-272.84	266.33	0.00	0.00	0.00
8,600.00	89.80	270.30	7,068.22	-1,243.31	-372.84	366.33	0.00	0.00	0.00
8,700.00	89.80	270.30	7,068.57	-1,242.79	-472.84	466.32	0.00	0.00	0.00
8,800.00	89.80	270.30	7,068.91	-1,242.26	-572.84	566.32	0.00	0.00	0.00
8,900.00	89.80	270.30	7,069.25	-1,241.74	-672.83	666.32	0.00	0.00	0.00
9,000.00	89.80	270.30	7,069.60	-1,241.21	-772.83	766.32	0.00	0.00	0.00
9,100.00	89.80	270.30	7,069.94	-1,240.69	-872.83	866.32	0.00	0.00	0.00
9,200.00	89.80	270.30	7,070.28	-1,240.16	-972.83	966.32	0.00	0.00	0.00
9,300.00	89.80	270.30	7,070.63	-1,239.64	-1,072.83	1,066.32	0.00	0.00	0.00
9,400.00	89.80	270.30	7,070.97	-1,239.11	-1,172.82	1,166.32	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Falken 16N-9B-L
Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 16N-9B-L	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,500.00	89.80	270.30	7,071.32	-1,238.59	-1,272.82	1,266.32	0.00	0.00	0.00	
9,600.00	89.80	270.30	7,071.66	-1,238.06	-1,372.82	1,366.32	0.00	0.00	0.00	
9,700.00	89.80	270.30	7,072.00	-1,237.54	-1,472.82	1,466.32	0.00	0.00	0.00	
9,800.00	89.80	270.30	7,072.35	-1,237.02	-1,572.82	1,566.32	0.00	0.00	0.00	
9,900.00	89.80	270.30	7,072.69	-1,236.49	-1,672.81	1,666.32	0.00	0.00	0.00	
10,000.00	89.80	270.30	7,073.03	-1,235.97	-1,772.81	1,766.32	0.00	0.00	0.00	
10,100.00	89.80	270.30	7,073.38	-1,235.44	-1,872.81	1,866.32	0.00	0.00	0.00	
10,200.00	89.80	270.30	7,073.72	-1,234.92	-1,972.81	1,966.32	0.00	0.00	0.00	
10,300.00	89.80	270.30	7,074.07	-1,234.39	-2,072.81	2,066.32	0.00	0.00	0.00	
10,400.00	89.80	270.30	7,074.41	-1,233.87	-2,172.80	2,166.31	0.00	0.00	0.00	
10,500.00	89.80	270.30	7,074.75	-1,233.34	-2,272.80	2,266.31	0.00	0.00	0.00	
10,600.00	89.80	270.30	7,075.10	-1,232.82	-2,372.80	2,366.31	0.00	0.00	0.00	
10,700.00	89.80	270.30	7,075.44	-1,232.30	-2,472.80	2,466.31	0.00	0.00	0.00	
10,800.00	89.80	270.30	7,075.78	-1,231.77	-2,572.80	2,566.31	0.00	0.00	0.00	
10,900.00	89.80	270.30	7,076.13	-1,231.25	-2,672.79	2,666.31	0.00	0.00	0.00	
11,000.00	89.80	270.30	7,076.47	-1,230.72	-2,772.79	2,766.31	0.00	0.00	0.00	
11,100.00	89.80	270.30	7,076.81	-1,230.20	-2,872.79	2,866.31	0.00	0.00	0.00	
11,200.00	89.80	270.30	7,077.16	-1,229.67	-2,972.79	2,966.31	0.00	0.00	0.00	
11,300.00	89.80	270.30	7,077.50	-1,229.15	-3,072.79	3,066.31	0.00	0.00	0.00	
11,400.00	89.80	270.30	7,077.85	-1,228.62	-3,172.79	3,166.31	0.00	0.00	0.00	
11,500.00	89.80	270.30	7,078.19	-1,228.10	-3,272.78	3,266.31	0.00	0.00	0.00	
11,600.00	89.80	270.30	7,078.53	-1,227.57	-3,372.78	3,366.31	0.00	0.00	0.00	
11,700.00	89.80	270.30	7,078.88	-1,227.05	-3,472.78	3,466.31	0.00	0.00	0.00	
11,800.00	89.80	270.30	7,079.22	-1,226.53	-3,572.78	3,566.31	0.00	0.00	0.00	
11,900.00	89.80	270.30	7,079.56	-1,226.00	-3,672.78	3,666.31	0.00	0.00	0.00	
12,000.00	89.80	270.30	7,079.91	-1,225.48	-3,772.77	3,766.31	0.00	0.00	0.00	
12,100.00	89.80	270.30	7,080.25	-1,224.95	-3,872.77	3,866.30	0.00	0.00	0.00	
12,200.00	89.80	270.30	7,080.60	-1,224.43	-3,972.77	3,966.30	0.00	0.00	0.00	
12,300.00	89.80	270.30	7,080.94	-1,223.90	-4,072.77	4,066.30	0.00	0.00	0.00	
12,400.00	89.80	270.30	7,081.28	-1,223.38	-4,172.77	4,166.30	0.00	0.00	0.00	
12,500.00	89.80	270.30	7,081.63	-1,222.85	-4,272.76	4,266.30	0.00	0.00	0.00	
12,600.00	89.80	270.30	7,081.97	-1,222.33	-4,372.76	4,366.30	0.00	0.00	0.00	
12,700.00	89.80	270.30	7,082.31	-1,221.81	-4,472.76	4,466.30	0.00	0.00	0.00	
12,800.00	89.80	270.30	7,082.66	-1,221.28	-4,572.76	4,566.30	0.00	0.00	0.00	
12,900.00	89.80	270.30	7,083.00	-1,220.76	-4,672.76	4,666.30	0.00	0.00	0.00	
13,000.00	89.80	270.30	7,083.35	-1,220.23	-4,772.75	4,766.30	0.00	0.00	0.00	
13,100.00	89.80	270.30	7,083.69	-1,219.71	-4,872.75	4,866.30	0.00	0.00	0.00	
13,200.00	89.80	270.30	7,084.03	-1,219.18	-4,972.75	4,966.30	0.00	0.00	0.00	
13,300.00	89.80	270.30	7,084.38	-1,218.66	-5,072.75	5,066.30	0.00	0.00	0.00	
13,400.00	89.80	270.30	7,084.72	-1,218.13	-5,172.75	5,166.30	0.00	0.00	0.00	
13,500.00	89.80	270.30	7,085.06	-1,217.61	-5,272.74	5,266.30	0.00	0.00	0.00	
13,600.00	89.80	270.30	7,085.41	-1,217.09	-5,372.74	5,366.30	0.00	0.00	0.00	
13,700.00	89.80	270.30	7,085.75	-1,216.56	-5,472.74	5,466.30	0.00	0.00	0.00	
13,800.00	89.80	270.30	7,086.09	-1,216.04	-5,572.74	5,566.29	0.00	0.00	0.00	
13,900.00	89.80	270.30	7,086.44	-1,215.51	-5,672.74	5,666.29	0.00	0.00	0.00	
14,000.00	89.80	270.30	7,086.78	-1,214.99	-5,772.73	5,766.29	0.00	0.00	0.00	
14,100.00	89.80	270.30	7,087.13	-1,214.46	-5,872.73	5,866.29	0.00	0.00	0.00	
14,200.00	89.80	270.30	7,087.47	-1,213.94	-5,972.73	5,966.29	0.00	0.00	0.00	
14,300.00	89.80	270.30	7,087.81	-1,213.41	-6,072.73	6,066.29	0.00	0.00	0.00	
14,400.00	89.80	270.30	7,088.16	-1,212.89	-6,172.73	6,166.29	0.00	0.00	0.00	
14,500.00	89.80	270.30	7,088.50	-1,212.36	-6,272.72	6,266.29	0.00	0.00	0.00	
14,600.00	89.80	270.30	7,088.84	-1,211.84	-6,372.72	6,366.29	0.00	0.00	0.00	
14,700.00	89.80	270.30	7,089.19	-1,211.32	-6,472.72	6,466.29	0.00	0.00	0.00	
14,800.00	89.80	270.30	7,089.53	-1,210.79	-6,572.72	6,566.29	0.00	0.00	0.00	

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Falken 16N-9B-L
Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 16N-9B-L	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,900.00	89.80	270.30	7,089.88	-1,210.27	-6,672.72	6,666.29	0.00	0.00	0.00
15,000.00	89.80	270.30	7,090.22	-1,209.74	-6,772.71	6,766.29	0.00	0.00	0.00
15,100.00	89.80	270.30	7,090.56	-1,209.22	-6,872.71	6,866.29	0.00	0.00	0.00
15,200.00	89.80	270.30	7,090.91	-1,208.69	-6,972.71	6,966.29	0.00	0.00	0.00
15,227.29	89.80	270.30	7,091.00	-1,208.55	-7,000.00	6,993.58	0.00	0.00	0.00
Start DLS 2.00 TFO -90.14									
15,300.00	89.80	268.85	7,091.25	-1,209.09	-7,072.71	7,066.28	2.00	0.00	-2.00
15,326.57	89.80	268.31	7,091.35	-1,209.75	-7,099.27	7,092.84	2.00	0.00	-2.00
Start 3597.94 hold at 15326.57 MD									
15,400.00	89.80	268.31	7,091.60	-1,211.91	-7,172.66	7,166.22	0.00	0.00	0.00
15,500.00	89.80	268.31	7,091.96	-1,214.85	-7,272.62	7,266.16	0.00	0.00	0.00
15,600.00	89.80	268.31	7,092.31	-1,217.79	-7,372.58	7,366.10	0.00	0.00	0.00
15,700.00	89.80	268.31	7,092.66	-1,220.73	-7,472.53	7,466.04	0.00	0.00	0.00
15,800.00	89.80	268.31	7,093.01	-1,223.67	-7,572.49	7,565.98	0.00	0.00	0.00
15,900.00	89.80	268.31	7,093.36	-1,226.61	-7,672.45	7,665.92	0.00	0.00	0.00
16,000.00	89.80	268.31	7,093.71	-1,229.55	-7,772.40	7,765.86	0.00	0.00	0.00
16,100.00	89.80	268.31	7,094.07	-1,232.49	-7,872.36	7,865.80	0.00	0.00	0.00
16,200.00	89.80	268.31	7,094.42	-1,235.43	-7,972.31	7,965.74	0.00	0.00	0.00
16,300.00	89.80	268.31	7,094.77	-1,238.37	-8,072.27	8,065.68	0.00	0.00	0.00
16,400.00	89.80	268.31	7,095.12	-1,241.31	-8,172.23	8,165.61	0.00	0.00	0.00
16,500.00	89.80	268.31	7,095.47	-1,244.26	-8,272.18	8,265.55	0.00	0.00	0.00
16,600.00	89.80	268.31	7,095.82	-1,247.20	-8,372.14	8,365.49	0.00	0.00	0.00
16,700.00	89.80	268.31	7,096.18	-1,250.14	-8,472.09	8,465.43	0.00	0.00	0.00
16,800.00	89.80	268.31	7,096.53	-1,253.08	-8,572.05	8,565.37	0.00	0.00	0.00
16,900.00	89.80	268.31	7,096.88	-1,256.02	-8,672.01	8,665.31	0.00	0.00	0.00
17,000.00	89.80	268.31	7,097.23	-1,258.96	-8,771.96	8,765.25	0.00	0.00	0.00
17,100.00	89.80	268.31	7,097.58	-1,261.90	-8,871.92	8,865.19	0.00	0.00	0.00
17,200.00	89.80	268.31	7,097.93	-1,264.84	-8,971.88	8,965.13	0.00	0.00	0.00
17,300.00	89.80	268.31	7,098.29	-1,267.78	-9,071.83	9,065.07	0.00	0.00	0.00
17,400.00	89.80	268.31	7,098.64	-1,270.72	-9,171.79	9,165.01	0.00	0.00	0.00
17,500.00	89.80	268.31	7,098.99	-1,273.66	-9,271.74	9,264.95	0.00	0.00	0.00
17,600.00	89.80	268.31	7,099.34	-1,276.60	-9,371.70	9,364.89	0.00	0.00	0.00
17,700.00	89.80	268.31	7,099.69	-1,279.54	-9,471.66	9,464.83	0.00	0.00	0.00
17,800.00	89.80	268.31	7,100.04	-1,282.48	-9,571.61	9,564.77	0.00	0.00	0.00
17,900.00	89.80	268.31	7,100.40	-1,285.42	-9,671.57	9,664.71	0.00	0.00	0.00
18,000.00	89.80	268.31	7,100.75	-1,288.36	-9,771.52	9,764.64	0.00	0.00	0.00
18,100.00	89.80	268.31	7,101.10	-1,291.30	-9,871.48	9,864.58	0.00	0.00	0.00
18,200.00	89.80	268.31	7,101.45	-1,294.25	-9,971.44	9,964.52	0.00	0.00	0.00
18,300.00	89.80	268.31	7,101.80	-1,297.19	-10,071.39	10,064.46	0.00	0.00	0.00
18,400.00	89.80	268.31	7,102.16	-1,300.13	-10,171.35	10,164.40	0.00	0.00	0.00
18,500.00	89.80	268.31	7,102.51	-1,303.07	-10,271.31	10,264.34	0.00	0.00	0.00
18,600.00	89.80	268.31	7,102.86	-1,306.01	-10,371.26	10,364.28	0.00	0.00	0.00
18,700.00	89.80	268.31	7,103.21	-1,308.95	-10,471.22	10,464.22	0.00	0.00	0.00
18,800.00	89.80	268.31	7,103.56	-1,311.89	-10,571.17	10,564.16	0.00	0.00	0.00
18,900.00	89.80	268.31	7,103.91	-1,314.83	-10,671.13	10,664.10	0.00	0.00	0.00
18,921.57	89.80	268.31	7,103.99	-1,315.46	-10,692.69	10,685.66	0.00	0.00	0.00
PBHL_Falken 16N-9B-L(533' FSL & 300' FEL)									
18,924.52	89.80	268.31	7,104.00	-1,315.55	-10,695.63	10,688.60	0.00	0.00	0.00
TD(432 FSL 302 FEL)									

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Falken 16N-9B-L
Company:	Synergy Resources Corporation	TVD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Project:	SEC 12-13 T6N R66W	MD Reference:	GL 4810 & KB 20 @ 4830.00ft (ASSUMED)
Site:	Falken 9-11 PAD	North Reference:	True
Well:	Falken 16N-9B-L	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
TOP_Falken 16N-9B-L(£	0.00	0.00	7,065.00	-1,245.92	566.79	1,424,823.31	3,213,062.19	40.4970070	-104.7339110
- plan misses target center by 2.32ft at 7660.36ft MD (7064.99 TVD, -1248.24 N, 566.78 E)									
- Point									
PBHL_Falken 16N-9B-L	0.00	0.00	7,104.00	-1,215.55	-10,695.63	1,424,756.64	3,201,799.92	40.4970840	-104.7744070
- plan misses target center by 99.96ft at 18921.57ft MD (7103.99 TVD, -1315.46 N, -10692.69 E)									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(in)	(in)
1,790.45	1,750.00	9 5/8"		9.625	13.500

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.00	200.00	0.00	0.00	Start Build 2.00
993.00	982.91	-74.38	79.76	Start 5542.30 hold at 993.00 MD
6,535.30	6,314.23	-1,107.36	1,187.50	Start DLS 9.00 TFO 136.23
7,661.89	7,065.00	-1,248.23	565.25	LP(521 FSL 300 FWL)
15,227.29	7,091.00	-1,208.55	-7,000.00	Start DLS 2.00 TFO -90.14
15,326.57	7,091.35	-1,209.75	-7,099.27	Start 3597.94 hold at 15326.57 MD
18,924.52	7,104.00	-1,315.55	-10,695.63	TD(432 FSL 302 FEL)