



BISON IV OPERATING

LARIMER COUNTY, COLORADO (NAD 83)

SEC. 11 T5N R68W 6th P.M.

CE 5-68 11-10-6H

ORIGINAL WELLBORE

PROPOSAL #1

Anticollision Report

19 July, 2024



Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 3,280.83usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2024-07-19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,496.19	PROPOSAL #1 (ORIGINAL WELLBORE)	OWSG (Rev2) MWD	OWSG MWD - Standard

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Summary						
SEC. 11 T5N R68W 6th P.M.						
ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1	5,562.10	5,568.06	1,855.40	1,804.32	36.323	CC
ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1	5,600.00	5,598.24	1,855.50	1,804.01	36.036	ES
ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1	6,900.00	6,818.00	1,923.62	1,858.00	29.316	SF
ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1	6,839.80	6,879.81	1,195.84	1,135.35	19.769	CC
ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1	6,850.00	6,889.11	1,195.94	1,135.34	19.736	ES
ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1	6,950.00	6,983.68	1,207.12	1,145.44	19.571	SF
ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1	5,225.32	5,712.27	1,399.77	1,337.42	22.452	CC, ES
ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1	6,100.00	6,394.52	1,494.22	1,421.73	20.614	SF
ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1	4,338.46	5,142.00	2,265.54	2,217.18	46.840	CC
ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1	4,400.00	5,195.76	2,265.81	2,216.53	45.976	ES
ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1	6,100.00	6,396.13	2,544.33	2,475.61	37.025	SF
ABDN DD MIRACLE 13-12 - Wellbore #1 - Wellbore #1	3,143.63	3,878.07	2,766.09	2,726.33	69.559	CC
ABDN DD MIRACLE 13-12 - Wellbore #1 - Wellbore #1	3,200.00	3,937.71	2,766.81	2,726.18	68.083	ES
ABDN DD MIRACLE 13-12 - Wellbore #1 - Wellbore #1	5,000.00	5,190.04	3,161.70	3,100.51	51.672	SF
ABDN VERT DONNAMITE 1 - Wellbore #1 - Design #1						Out of range
ABDN VERT KNESS 1 - Wellbore #1 - Design #1	8,518.54	7,062.00	1,210.75	1,024.35	6.495	CC, ES
ABDN VERT KNESS 1 - Wellbore #1 - Design #1	8,800.00	7,062.00	1,243.04	1,047.55	6.359	SF
ABDN VERT MCWHINNEY-VANDERWATER1 - Wellbor						Out of range
ABDN VERT MEAN 1 - Wellbore #1 - Design #1						Out of range
ABDN VERT NASTY 1 - Wellbore #1 - Design #1						Out of range
ABDN VERT RAUSLER 1 - Wellbore #1 - Design #1						Out of range
CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOS	300.00	300.00	65.85	64.13	38.269	CC
CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOS	400.00	399.13	66.50	64.07	27.400	ES
CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOS	15,496.19	15,844.70	1,754.16	1,289.72	3.777	SF
CE 5-68 11-10-11H - ORIGINAL WELLBORE - PROPOS	1,176.04	1,177.09	41.21	33.27	5.192	CC
CE 5-68 11-10-11H - ORIGINAL WELLBORE - PROPOS	1,200.00	1,200.97	41.25	33.14	5.088	ES
CE 5-68 11-10-11H - ORIGINAL WELLBORE - PROPOS	1,400.00	1,400.32	44.97	35.43	4.714	SF
CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOS	878.97	879.41	37.46	31.64	6.435	CC
CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOS	900.00	900.33	37.52	31.55	6.286	ES
CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOS	15,496.19	15,539.10	2,626.02	2,166.95	5.720	SF
CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOS	538.72	538.72	31.48	28.06	9.191	CC
CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOS	700.00	699.69	32.19	27.64	7.081	ES
CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOS	800.00	798.94	35.05	29.80	6.680	SF
CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOS	400.00	400.00	31.48	29.05	12.916	CC, ES
CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOS	600.00	598.38	36.05	32.22	9.415	SF
CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOS	300.00	300.00	37.62	35.90	21.866	CC, ES

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC. 11 T5N R68W 6th P.M.						
CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOS	600.00	595.77	51.03	47.22	13.374	SF
CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOS	2,200.00	2,200.00	18.22	2.88	1.187	Level 3, CC, ES
CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOS	15,496.19	15,837.79	485.08	71.42	1.173	Level 3, SF
CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOS	2,300.00	2,300.00	14.57	-1.49	0.907	Level 3, CC, ES, SF
CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOS	4,599.18	4,522.26	41.05	3.22	1.085	Level 3, CC
CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOS	4,600.00	4,523.05	41.05	3.21	1.085	Level 3, ES, SF
CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOS	400.00	400.00	79.04	76.60	32.425	CC, ES
CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOS	15,496.19	15,445.32	1,311.12	852.65	2.860	SF
CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL	1,203.34	1,203.34	80.16	71.96	9.779	CC
CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL	1,300.00	1,298.67	80.57	71.69	9.069	ES
CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL	15,496.19	17,395.63	2,199.04	1,731.60	4.704	SF
CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL	1,303.35	1,303.35	65.58	56.66	7.357	CC
CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL	1,400.00	1,398.91	65.99	56.39	6.873	ES
CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL	15,496.19	17,011.19	1,752.99	1,282.71	3.727	SF
CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL	2,000.00	2,000.00	47.37	33.46	3.406	CC, ES
CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL	15,496.19	16,978.51	1,319.96	851.92	2.820	SF
CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL	2,100.00	2,100.00	32.79	18.17	2.242	CC, ES
CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL	15,496.19	16,598.86	883.23	414.00	1.882	SF
EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #	7,844.42	7,436.68	116.55	43.49	1.595	CC, ES, SF
EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore	7,686.64	7,474.11	447.34	375.82	6.254	CC
EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore	7,700.00	7,460.79	447.43	375.68	6.236	ES
EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore	7,800.00	7,385.59	453.25	379.47	6.143	SF
EXIST HZ ENCORE 40N-12HZ - Wellbore #1 - Wellbore	4,796.67	4,874.43	108.60	60.88	2.275	CC
EXIST HZ ENCORE 40N-12HZ - Wellbore #1 - Wellbore	4,800.00	4,877.03	108.62	60.79	2.271	ES, SF
EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore	7,100.01	7,804.25	390.29	323.50	5.844	CC, ES
EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore	7,150.00	7,780.98	392.70	324.17	5.731	SF
EXIST HZ ENCORE 8C-12HZ - Wellbore #1 - Wellbore #	4,743.06	4,815.24	411.47	362.38	8.383	CC, ES, SF
EXIST HZ MIRACLE 13C-12HZ - Wellbore #1 - Wellbore						Out of range
EXIST HZ MIRACLE 33N-12HZ - Wellbore #1 - Wellbore						Out of range
EXIST HZ MIRACLE 40C-11HZ - ORIGINAL WELLBORE						Out of range
EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETR	6,756.36	13,628.00	2,023.32	1,833.88	10.680	CC
EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETR	6,809.17	13,628.00	2,024.01	1,832.74	10.582	ES
EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETR	7,100.00	13,628.00	2,050.91	1,852.32	10.327	SF
EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore	6,494.72	13,558.00	2,311.82	2,124.25	12.325	CC
EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore	6,600.00	13,558.00	2,314.21	2,123.49	12.134	ES
EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore	6,950.00	13,558.00	2,355.88	2,157.28	11.863	SF
EXIST HZ MIRACLE 9C-11HZ - Wellbore #1 - Wellbore #	6,416.90	13,682.00	2,884.20	2,697.03	15.409	CC
EXIST HZ MIRACLE 9C-11HZ - Wellbore #1 - Wellbore #	6,500.00	13,682.00	2,885.40	2,696.07	15.240	ES
EXIST HZ MIRACLE 9C-11HZ - Wellbore #1 - Wellbore #	7,050.00	13,682.00	2,951.26	2,751.39	14.766	SF
EXIST HZ PROWANT 18-1HZ - Wellbore #1 - Wellbore #						Out of range
EXIST VERT JEFFERS 2-1 - Wellbore #1 - Design #1	9,980.10	7,088.00	2,563.11	2,340.97	11.538	CC
EXIST VERT JEFFERS 2-1 - Wellbore #1 - Design #1	10,100.00	7,088.00	2,565.91	2,339.96	11.356	ES
EXIST VERT JEFFERS 2-1 - Wellbore #1 - Design #1	10,700.00	7,088.00	2,662.29	2,419.97	10.987	SF
EXIST VERT JEFFERS 2-2 - Wellbore #1 - Design #1	11,052.70	7,055.00	1,217.30	967.94	4.882	CC
EXIST VERT JEFFERS 2-2 - Wellbore #1 - Design #1	11,100.00	7,055.00	1,218.22	967.00	4.849	ES
EXIST VERT JEFFERS 2-2 - Wellbore #1 - Design #1	11,200.00	7,055.00	1,226.18	971.53	4.815	SF
EXIST VERT WICKED 1 - Wellbore #1 - Wellbore #1	15,496.19	6,914.76	3,022.00	2,810.21	14.269	CC, ES, SF

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
700.00	700.00	1,691.00	1,652.78	2.29	8.05	59.58	1,584.99	2,699.44	3,273.60	3,265.02	8.58	381.325		
800.00	800.00	1,762.75	1,721.30	2.65	8.49	59.65	1,571.23	2,683.23	3,244.46	3,235.25	9.22	352.031		
900.00	900.00	1,835.68	1,791.17	3.01	8.93	59.72	1,557.33	2,667.64	3,216.32	3,206.46	9.86	326.279		
1,000.00	1,000.00	1,986.23	1,935.20	3.37	9.85	59.87	1,528.94	2,634.24	3,187.61	3,176.81	10.80	295.102		
1,100.00	1,100.00	2,064.47	2,010.00	3.73	10.34	59.91	1,515.48	2,615.67	3,158.42	3,146.95	11.47	275.398		
1,200.00	1,200.00	2,198.69	2,138.31	4.09	11.18	59.99	1,492.49	2,583.67	3,129.33	3,116.98	12.35	253.454		
1,300.00	1,300.00	2,285.45	2,220.93	4.45	11.73	60.05	1,476.72	2,562.41	3,099.03	3,085.98	13.05	237.459		
1,400.00	1,400.00	2,438.05	2,366.22	4.80	12.71	60.12	1,450.40	2,523.92	3,068.73	3,054.73	13.99	219.277		
1,500.00	1,500.00	2,551.35	2,473.53	5.16	13.46	60.13	1,431.69	2,492.75	3,036.62	3,021.83	14.79	205.261		
1,600.00	1,600.00	2,611.22	2,530.25	5.52	13.86	60.14	1,421.91	2,476.28	3,004.75	2,989.35	15.40	195.058		
1,700.00	1,700.00	2,676.00	2,592.10	5.88	14.27	60.14	1,412.01	2,459.74	2,974.70	2,958.67	16.03	185.543		
1,800.00	1,800.00	2,728.11	2,642.03	6.24	14.60	60.16	1,403.78	2,447.30	2,945.73	2,929.11	16.62	177.260		
1,900.00	1,900.00	2,853.86	2,762.14	6.60	15.39	60.29	1,380.20	2,418.50	2,916.51	2,899.04	17.47	166.965		
2,000.00	2,000.00	2,946.00	2,849.89	6.95	15.98	60.38	1,362.40	2,396.78	2,886.44	2,868.24	18.20	158.569		
2,100.00	2,100.00	3,034.00	2,933.96	7.31	16.53	60.45	1,347.03	2,375.80	2,857.06	2,838.14	18.92	151.007		
2,200.00	2,200.00	3,153.90	3,048.46	7.67	17.29	60.52	1,326.51	2,346.76	2,827.60	2,807.85	19.74	143.216		
2,300.00	2,300.00	3,211.00	3,102.86	8.03	17.66	60.57	1,315.95	2,332.99	2,797.71	2,777.35	20.36	137.400		
2,400.00	2,399.98	3,278.59	3,167.48	8.39	18.08	60.50	1,303.90	2,317.31	2,768.07	2,747.05	21.01	131.725		
2,500.00	2,499.84	3,418.04	3,301.13	8.75	18.95	61.33	1,280.32	2,285.24	2,737.42	2,715.51	21.90	124.982		
2,600.00	2,599.45	3,513.64	3,392.29	9.10	19.55	62.23	1,262.34	2,262.76	2,703.68	2,681.03	22.65	119.353		
2,700.00	2,698.70	3,567.00	3,443.25	9.46	19.89	63.09	1,252.14	2,250.63	2,669.17	2,645.90	23.27	114.701		
2,800.00	2,797.47	3,656.00	3,528.54	9.82	20.44	64.17	1,235.85	2,231.11	2,634.19	2,610.19	24.01	109.726		
2,900.00	2,895.62	3,842.02	3,705.78	10.20	21.64	65.89	1,202.95	2,185.29	2,595.59	2,570.55	25.04	103.639		
3,000.00	2,993.06	3,930.07	3,789.30	10.58	22.23	67.26	1,186.90	2,162.50	2,554.99	2,529.19	25.80	99.040		
3,100.00	3,089.64	4,007.00	3,862.32	10.98	22.74	68.68	1,172.72	2,142.89	2,513.65	2,487.11	26.54	94.722		
3,200.00	3,185.27	4,044.90	3,898.44	11.40	22.98	69.85	1,165.88	2,133.63	2,472.45	2,445.26	27.19	90.947		
3,300.00	3,279.82	4,096.00	3,947.43	11.85	23.30	71.17	1,157.20	2,122.01	2,432.22	2,404.33	27.90	87.181		
3,400.00	3,373.17	4,233.52	4,079.18	12.32	24.15	73.49	1,134.72	2,089.67	2,391.56	2,362.68	28.88	82.805		
3,425.78	3,397.02	4,281.05	4,124.43	12.45	24.46	74.26	1,126.71	2,077.51	2,380.49	2,351.32	29.17	81.610		
3,500.00	3,465.59	4,333.16	4,173.99	12.83	24.80	74.87	1,118.01	2,063.97	2,348.57	2,318.78	29.79	78.828		
3,600.00	3,557.97	4,434.42	4,270.24	13.35	25.47	76.09	1,100.80	2,037.66	2,306.10	2,275.36	30.74	75.013		
3,700.00	3,650.35	4,513.65	4,345.27	13.89	26.00	77.11	1,085.82	2,017.08	2,263.69	2,232.01	31.68	71.454		
3,800.00	3,742.72	4,578.03	4,406.38	14.45	26.42	77.95	1,074.33	2,000.40	2,222.46	2,189.85	32.61	68.143		
3,900.00	3,835.10	4,633.00	4,458.75	15.03	26.78	78.66	1,065.25	1,986.37	2,182.78	2,149.22	33.56	65.048		
4,000.00	3,927.48	4,691.66	4,514.85	15.61	27.15	79.43	1,056.15	1,971.86	2,144.84	2,110.31	34.53	62.112		
4,100.00	4,019.86	4,747.01	4,568.02	16.21	27.49	80.16	1,047.96	1,958.83	2,108.85	2,073.32	35.53	59.358		
4,200.00	4,112.23	4,811.00	4,629.71	16.82	27.87	81.02	1,038.80	1,944.52	2,074.80	2,038.23	36.57	56.736		
4,300.00	4,204.61	4,859.11	4,676.26	17.44	28.14	81.67	1,032.15	1,934.34	2,042.74	2,005.15	37.60	54.332		
4,400.00	4,296.99	4,898.00	4,713.99	18.06	28.36	82.21	1,026.94	1,926.51	2,012.97	1,974.35	38.62	52.121		
4,500.00	4,389.37	4,958.05	4,772.50	18.69	28.67	83.04	1,019.28	1,915.39	1,985.55	1,945.83	39.71	49.997		
4,600.00	4,481.74	4,987.00	4,800.83	19.33	28.82	83.44	1,015.80	1,910.53	1,961.04	1,920.31	40.73	48.150		
4,700.00	4,574.12	5,049.40	4,862.15	19.98	29.11	84.31	1,009.03	1,901.18	1,939.07	1,897.23	41.84	46.343		
4,800.00	4,666.50	5,098.91	4,911.05	20.63	29.33	84.98	1,004.50	1,894.88	1,920.10	1,877.18	42.92	44.741		
4,900.00	4,758.88	5,164.00	4,975.53	21.29	29.60	85.86	999.21	1,887.77	1,903.78	1,859.74	44.04	43.229		
5,000.00	4,851.25	5,217.28	5,028.43	21.95	29.80	86.58	995.33	1,882.72	1,889.78	1,844.67	45.12	41.888		
5,100.00	4,943.63	5,276.46	5,087.27	22.61	30.01	87.37	991.48	1,877.75	1,878.02	1,831.82	46.21	40.644		
5,200.00	5,036.01	5,338.00	5,148.60	23.28	30.22	88.18	988.22	1,873.83	1,869.00	1,821.70	47.29	39.519		
5,300.00	5,128.39	5,396.26	5,206.75	23.95	30.39	88.93	985.97	1,871.03	1,862.38	1,814.03	48.34	38.524		
5,400.00	5,220.76	5,459.94	5,270.37	24.62	30.57	89.72	984.46	1,868.61	1,857.79	1,808.40	49.40	37.611		
5,500.00	5,313.14	5,515.00	5,325.40	25.30	30.72	90.40	983.59	1,867.48	1,855.68	1,805.29	50.39	36.827		
5,562.10	5,370.51	5,568.06	5,378.45	25.72	30.85	91.04	982.93	1,866.98	1,855.40	1,804.32	51.08	36.323 CC		
5,600.00	5,405.52	5,598.24	5,408.64	25.98	30.92	91.41	982.57	1,866.79	1,855.50	1,804.01	51.49	36.036 ES		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,700.00	5,497.90	5,678.67	5,489.06	26.67	31.11	92.39	981.63	1,866.66	1,856.75	1,804.19	52.57	35.322		
5,800.00	5,590.28	5,801.78	5,612.16	27.35	31.40	93.87	980.75	1,865.96	1,858.47	1,804.65	53.82	34.531		
5,900.00	5,682.65	5,902.21	5,712.58	28.04	31.65	95.06	980.41	1,864.21	1,859.86	1,804.89	54.97	33.833		
6,000.00	5,775.03	5,997.68	5,808.02	28.73	31.90	96.20	979.95	1,862.29	1,861.82	1,805.72	56.10	33.188		
6,100.00	5,867.41	6,090.04	5,900.36	29.42	32.14	97.30	979.55	1,860.28	1,864.43	1,807.22	57.21	32.591		
6,200.00	5,959.79	6,179.44	5,989.74	30.11	32.38	98.37	979.01	1,858.46	1,867.99	1,809.70	58.29	32.044		
6,300.00	6,052.16	6,268.42	6,078.71	30.80	32.62	99.42	978.46	1,856.72	1,872.42	1,813.05	59.37	31.537		
6,400.00	6,144.54	6,359.13	6,169.39	31.50	32.86	100.50	977.90	1,855.17	1,877.89	1,817.45	60.44	31.068		
6,500.00	6,236.92	6,454.97	6,265.22	32.20	33.12	101.62	977.43	1,853.40	1,883.98	1,822.46	61.53	30.621		
6,600.00	6,329.30	6,545.12	6,355.35	32.90	33.36	102.67	976.90	1,851.65	1,890.80	1,828.23	62.57	30.218		
6,700.00	6,421.67	6,632.24	6,442.46	33.60	33.59	103.68	976.48	1,850.19	1,898.59	1,835.00	63.59	29.855		
6,800.00	6,514.05	6,722.45	6,532.66	34.30	33.84	104.72	975.94	1,848.86	1,907.35	1,842.74	64.61	29.519		
6,809.17	6,522.52	6,731.01	6,541.22	34.36	33.86	104.81	975.89	1,848.74	1,908.20	1,843.49	64.71	29.489		
6,850.00	6,560.22	6,769.52	6,579.72	34.65	33.96	115.17	975.68	1,848.17	1,913.40	1,848.28	65.12	29.382		
6,900.00	6,606.13	6,818.00	6,628.19	35.00	34.10	127.20	975.38	1,847.40	1,923.62	1,858.00	65.62	29.316 SF		
6,950.00	6,651.44	6,863.88	6,674.07	35.34	34.22	137.84	975.07	1,846.60	1,937.95	1,871.88	66.07	29.330		
7,000.00	6,695.79	6,905.21	6,715.39	35.67	34.33	146.86	974.78	1,845.92	1,956.36	1,889.87	66.48	29.426		
7,050.00	6,738.87	6,945.94	6,756.11	36.00	34.45	154.46	974.50	1,845.33	1,978.67	1,911.81	66.86	29.594		
7,100.00	6,780.32	6,987.66	6,797.83	36.31	34.56	160.97	974.22	1,844.74	2,004.63	1,937.42	67.21	29.827		
7,150.00	6,819.85	7,027.51	6,837.67	36.61	34.67	166.67	973.95	1,844.17	2,034.00	1,966.48	67.52	30.125		
7,200.00	6,857.14	7,075.61	6,885.76	36.91	34.81	171.91	973.56	1,843.34	2,066.44	1,998.60	67.83	30.463		
7,250.00	6,891.92	7,121.11	6,931.25	37.19	34.93	176.87	973.09	1,842.28	2,101.59	2,033.49	68.11	30.858		
7,300.00	6,923.92	7,145.02	6,955.15	37.46	35.00	-178.20	972.88	1,841.74	2,139.39	2,071.14	68.25	31.346		
7,350.00	6,952.90	7,168.68	6,978.81	37.73	35.07	-172.93	972.75	1,841.31	2,179.62	2,111.26	68.37	31.882		
7,400.00	6,978.63	7,189.60	6,999.73	37.99	35.13	-166.98	972.69	1,841.00	2,221.96	2,153.52	68.44	32.466		
7,450.00	7,000.93	7,208.34	7,018.47	38.25	35.18	-159.91	972.69	1,840.79	2,266.06	2,197.58	68.48	33.093		
7,500.00	7,019.61	7,226.36	7,036.48	38.51	35.23	-151.22	972.69	1,840.60	2,311.56	2,243.08	68.49	33.753		
7,550.00	7,034.55	7,240.83	7,050.95	38.77	35.26	-140.26	972.69	1,840.46	2,358.13	2,289.68	68.46	34.446		
7,600.00	7,045.61	7,251.65	7,061.77	39.04	35.29	-126.73	972.69	1,840.36	2,405.43	2,337.03	68.40	35.168		
7,650.00	7,052.73	7,258.76	7,068.88	39.32	35.31	-111.22	972.68	1,840.29	2,453.11	2,384.80	68.31	35.913		
7,700.00	7,055.85	7,262.11	7,072.23	39.60	35.32	-95.59	972.68	1,840.26	2,500.84	2,432.65	68.19	36.675		
7,713.69	7,056.00	7,262.37	7,072.49	39.68	35.32	-91.58	972.68	1,840.26	2,513.87	2,445.72	68.15	36.886		
7,800.00	7,056.00	7,263.12	7,073.24	40.23	35.32	-91.64	972.68	1,840.25	2,596.08	2,528.15	67.93	38.219		
7,900.00	7,056.00	7,263.98	7,074.10	41.02	35.33	-91.70	972.68	1,840.24	2,691.64	2,623.95	67.69	39.766		
8,000.00	7,056.00	7,264.83	7,074.95	41.97	35.33	-91.76	972.68	1,840.23	2,787.52	2,720.05	67.47	41.313		
8,100.00	7,056.00	7,265.69	7,075.81	43.10	35.33	-91.83	972.67	1,840.23	2,883.68	2,816.40	67.28	42.862		
8,200.00	7,056.00	7,266.54	7,076.66	44.40	35.33	-91.89	972.67	1,840.22	2,980.09	2,912.98	67.10	44.411		
8,300.00	7,056.00	7,267.38	7,077.50	45.85	35.34	-91.95	972.67	1,840.21	3,076.72	3,009.78	66.94	45.961		
8,400.00	7,056.00	7,268.23	7,078.35	47.44	35.34	-92.01	972.67	1,840.20	3,173.57	3,106.77	66.80	47.511		
8,500.00	7,056.00	7,269.07	7,079.19	49.17	35.34	-92.07	972.67	1,840.20	3,270.61	3,203.94	66.66	49.061		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
900.00	900.00	2,123.43	2,056.70	3.01	11.12	54.61	1,774.83	2,498.15	3,276.89	3,265.05	11.84	276.813		
1,000.00	1,000.00	2,190.84	2,118.89	3.37	11.64	54.39	1,770.67	2,472.46	3,241.79	3,229.26	12.53	258.665		
1,100.00	1,100.00	2,261.93	2,184.69	3.73	12.19	54.16	1,766.64	2,445.87	3,207.58	3,194.32	13.25	242.014		
1,200.00	1,200.00	2,384.79	2,297.74	4.09	13.16	53.69	1,762.16	2,397.99	3,173.22	3,158.98	14.24	222.783		
1,300.00	1,300.00	2,551.68	2,448.83	4.45	14.59	52.93	1,758.32	2,327.25	3,136.37	3,120.85	15.52	202.139		
1,400.00	1,400.00	2,585.00	2,478.89	4.80	14.88	52.77	1,757.67	2,312.89	3,100.24	3,084.12	16.12	192.338		
1,500.00	1,500.00	2,651.35	2,539.16	5.16	15.44	52.45	1,756.48	2,285.19	3,065.21	3,048.32	16.89	181.458		
1,600.00	1,600.00	2,731.62	2,612.69	5.52	16.11	52.08	1,755.49	2,253.02	3,031.75	3,014.00	17.74	170.855		
1,700.00	1,700.00	2,861.00	2,730.46	5.88	17.21	51.42	1,754.64	2,199.43	2,997.72	2,978.85	18.87	158.859		
1,800.00	1,800.00	2,932.22	2,795.55	6.24	17.81	51.08	1,752.87	2,170.60	2,963.64	2,943.95	19.68	150.571		
1,900.00	1,900.00	3,011.75	2,868.72	6.60	18.45	50.72	1,749.85	2,139.59	2,930.19	2,909.67	20.53	142.745		
2,000.00	2,000.00	3,108.06	2,957.48	6.95	19.23	50.29	1,745.97	2,102.41	2,897.07	2,875.62	21.45	135.065		
2,100.00	2,100.00	3,206.82	3,048.35	7.31	20.04	49.83	1,742.05	2,063.94	2,863.83	2,841.44	22.40	127.871		
2,200.00	2,200.00	3,300.00	3,133.55	7.67	20.82	49.35	1,739.76	2,026.28	2,830.47	2,807.12	23.35	121.212		
2,300.00	2,300.00	3,357.58	3,186.37	8.03	21.29	49.05	1,738.33	2,003.41	2,797.90	2,773.77	24.13	115.957		
2,400.00	2,399.98	3,427.46	3,251.12	8.39	21.85	48.56	1,736.08	1,977.23	2,765.60	2,740.64	24.96	110.820		
2,500.00	2,499.84	3,539.48	3,354.96	8.75	22.73	48.67	1,732.15	1,935.40	2,731.26	2,705.30	25.96	105.194		
2,600.00	2,599.45	3,635.43	3,443.73	9.10	23.49	48.93	1,728.30	1,899.16	2,694.20	2,667.30	26.90	100.174		
2,700.00	2,698.70	3,729.59	3,530.68	9.46	24.25	49.27	1,725.09	1,863.19	2,655.11	2,627.29	27.82	95.447		
2,800.00	2,797.47	3,828.34	3,621.99	9.82	25.04	49.73	1,720.91	1,825.81	2,613.77	2,585.02	28.74	90.932		
2,900.00	2,895.62	3,974.33	3,756.42	10.20	26.23	50.23	1,713.57	1,769.38	2,569.36	2,539.50	29.86	86.041		
3,000.00	2,993.06	4,117.99	3,887.27	10.58	27.45	50.92	1,703.60	1,710.94	2,519.96	2,489.01	30.95	81.421		
3,100.00	3,089.64	4,163.16	3,928.51	10.98	27.83	51.82	1,700.46	1,692.80	2,469.41	2,437.77	31.64	78.055		
3,200.00	3,185.27	4,212.46	3,973.85	11.40	28.24	52.80	1,697.38	1,673.69	2,418.39	2,386.06	32.33	74.795		
3,300.00	3,279.82	4,277.00	4,033.28	11.85	28.77	53.85	1,694.86	1,648.62	2,366.79	2,333.70	33.09	71.521		
3,400.00	3,373.17	4,341.11	4,092.14	12.32	29.30	54.96	1,693.85	1,623.23	2,314.19	2,280.31	33.88	68.310		
3,425.78	3,397.02	4,361.87	4,111.13	12.45	29.48	55.26	1,693.77	1,614.85	2,300.40	2,266.30	34.10	67.457		
3,500.00	3,465.59	4,479.07	4,217.65	12.83	30.50	55.47	1,692.80	1,566.01	2,259.60	2,224.58	35.01	64.533		
3,600.00	3,557.97	4,561.79	4,292.54	13.35	31.23	55.63	1,691.48	1,530.89	2,203.79	2,167.88	35.91	61.368		
3,700.00	3,650.35	4,633.00	4,357.34	13.89	31.85	55.80	1,689.92	1,501.42	2,148.42	2,111.66	36.76	58.448		
3,800.00	3,742.72	4,684.78	4,404.86	14.45	32.28	55.96	1,688.42	1,480.90	2,093.89	2,056.37	37.52	55.809		
3,900.00	3,835.10	4,743.55	4,459.27	15.03	32.75	56.18	1,686.31	1,458.79	2,040.47	2,002.17	38.30	53.275		
4,000.00	3,927.48	4,811.00	4,522.16	15.61	33.27	56.48	1,683.61	1,434.56	1,988.05	1,948.95	39.10	50.846		
4,100.00	4,019.86	4,866.17	4,573.95	16.21	33.66	56.76	1,681.15	1,415.71	1,936.68	1,896.83	39.85	48.598		
4,200.00	4,112.23	4,995.80	4,695.93	16.82	34.60	57.52	1,674.20	1,372.39	1,885.78	1,845.04	40.75	46.282		
4,300.00	4,204.61	5,040.37	4,737.82	17.44	34.92	57.79	1,671.63	1,357.42	1,834.23	1,792.74	41.49	44.211		
4,400.00	4,296.99	5,076.00	4,771.51	18.06	35.17	58.03	1,669.63	1,345.98	1,784.45	1,742.24	42.22	42.269		
4,500.00	4,389.37	5,128.91	4,821.95	18.69	35.50	58.42	1,666.94	1,330.26	1,736.70	1,693.75	42.95	40.432		
4,600.00	4,481.74	5,164.00	4,855.72	19.33	35.72	58.69	1,665.41	1,320.83	1,691.54	1,647.89	43.65	38.748		
4,700.00	4,574.12	5,228.95	4,918.59	19.98	36.09	59.23	1,663.19	1,304.67	1,648.44	1,604.05	44.39	37.135		
4,800.00	4,666.50	5,285.83	4,973.90	20.63	36.39	59.73	1,661.83	1,291.51	1,607.31	1,562.21	45.11	35.634		
4,900.00	4,758.88	5,338.00	5,024.88	21.29	36.65	60.21	1,660.81	1,280.46	1,568.26	1,522.46	45.80	34.241		
5,000.00	4,851.25	5,402.35	5,088.06	21.95	36.94	60.85	1,659.65	1,268.30	1,531.30	1,484.80	46.50	32.934		
5,100.00	4,943.63	5,464.07	5,148.92	22.61	37.20	61.52	1,658.52	1,258.14	1,496.50	1,449.34	47.17	31.728		
5,200.00	5,036.01	5,528.62	5,212.79	23.28	37.46	62.26	1,657.42	1,248.83	1,463.81	1,415.98	47.83	30.605		
5,300.00	5,128.39	5,605.00	5,288.57	23.95	37.74	63.20	1,656.13	1,239.36	1,433.15	1,384.65	48.51	29.546		
5,400.00	5,220.76	5,669.12	5,352.31	24.62	37.95	64.04	1,654.95	1,232.52	1,404.35	1,355.22	49.14	28.581		
5,500.00	5,313.14	5,743.28	5,426.14	25.30	38.18	65.07	1,653.28	1,225.78	1,377.39	1,327.60	49.78	27.668		
5,600.00	5,405.52	5,808.30	5,490.96	25.98	38.36	66.04	1,651.33	1,221.06	1,352.41	1,302.02	50.38	26.842		
5,700.00	5,497.90	5,874.00	5,556.58	26.67	38.53	67.05	1,649.96	1,218.16	1,330.71	1,279.73	50.98	26.105		
5,800.00	5,590.28	5,938.00	5,620.55	27.35	38.67	68.06	1,649.10	1,216.53	1,311.72	1,260.17	51.55	25.446		
5,900.00	5,682.65	6,023.73	5,706.25	28.04	38.85	69.44	1,647.99	1,214.82	1,294.38	1,242.14	52.24	24.776		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
6,000.00	5,775.03	6,113.76	5,796.26	28.73	39.03	70.93	1,646.81	1,213.33	1,278.33	1,225.34	52.98	24.126		
6,100.00	5,867.41	6,205.18	5,887.66	29.42	39.23	72.47	1,645.71	1,211.83	1,263.35	1,209.59	53.77	23.497		
6,200.00	5,959.79	6,295.98	5,978.45	30.11	39.42	74.02	1,644.88	1,210.31	1,249.49	1,194.91	54.58	22.894		
6,300.00	6,052.16	6,371.67	6,054.13	30.80	39.57	75.34	1,644.13	1,209.49	1,237.25	1,181.94	55.31	22.370		
6,400.00	6,144.54	6,456.26	6,138.72	31.50	39.72	76.82	1,643.79	1,209.68	1,227.38	1,171.26	56.12	21.872		
6,500.00	6,236.92	6,552.70	6,235.16	32.20	39.90	78.54	1,643.25	1,209.77	1,218.54	1,161.50	57.04	21.362		
6,600.00	6,329.30	6,648.46	6,330.92	32.90	40.08	80.28	1,642.41	1,209.62	1,210.60	1,152.59	58.01	20.870		
6,700.00	6,421.67	6,746.45	6,428.90	33.60	40.28	82.08	1,641.51	1,209.09	1,203.53	1,144.50	59.03	20.390		
6,800.00	6,514.05	6,843.14	6,525.58	34.30	40.49	83.87	1,640.80	1,208.08	1,197.25	1,137.17	60.08	19.929		
6,809.17	6,522.52	6,851.82	6,534.27	34.36	40.51	84.03	1,640.74	1,207.97	1,196.72	1,136.55	60.17	19.888		
6,839.80	6,550.81	6,879.81	6,562.25	34.58	40.57	91.92	1,640.57	1,207.63	1,195.84	1,135.35	60.49	19.769	CC	
6,850.00	6,560.22	6,889.11	6,571.55	34.65	40.59	94.51	1,640.51	1,207.51	1,195.94	1,135.34	60.60	19.736	ES	
6,900.00	6,606.13	6,934.55	6,616.98	35.00	40.69	106.56	1,640.19	1,206.96	1,199.24	1,138.11	61.12	19.621		
6,950.00	6,651.44	6,983.68	6,666.10	35.34	40.80	117.18	1,639.84	1,206.31	1,207.12	1,145.44	61.68	19.571	SF	
7,000.00	6,695.79	7,031.88	6,714.30	35.67	40.91	126.07	1,639.54	1,205.50	1,219.43	1,157.20	62.23	19.596		
7,050.00	6,738.87	7,074.57	6,756.98	36.00	41.01	133.29	1,639.34	1,204.73	1,236.16	1,173.43	62.73	19.706		
7,100.00	6,780.32	7,115.00	6,797.41	36.31	41.10	139.17	1,639.24	1,204.02	1,257.20	1,194.00	63.20	19.891		
7,150.00	6,819.85	7,153.15	6,835.55	36.61	41.19	144.00	1,639.14	1,203.39	1,282.39	1,218.75	63.64	20.149		
7,200.00	6,857.14	7,188.36	6,870.75	36.91	41.27	148.02	1,638.99	1,202.89	1,311.51	1,247.47	64.04	20.478		
7,250.00	6,891.92	7,221.77	6,904.17	37.19	41.35	151.47	1,638.80	1,202.46	1,344.28	1,279.86	64.41	20.870		
7,300.00	6,923.92	7,253.07	6,935.46	37.46	41.42	154.49	1,638.61	1,202.09	1,380.35	1,315.61	64.74	21.320		
7,350.00	6,952.90	7,281.43	6,963.82	37.73	41.49	157.22	1,638.44	1,201.78	1,419.42	1,354.39	65.03	21.827		
7,400.00	6,978.63	7,305.70	6,988.09	37.99	41.54	159.80	1,638.28	1,201.53	1,461.13	1,395.86	65.27	22.387		
7,450.00	7,000.93	7,326.00	7,008.39	38.25	41.58	162.41	1,638.13	1,201.35	1,505.14	1,439.69	65.45	22.996		
7,500.00	7,019.61	7,342.97	7,025.36	38.51	41.62	165.36	1,638.00	1,201.22	1,551.09	1,485.50	65.59	23.647		
7,550.00	7,034.55	7,356.51	7,038.89	38.77	41.65	169.24	1,637.88	1,201.14	1,598.59	1,532.89	65.70	24.333		
7,600.00	7,045.61	7,366.55	7,048.93	39.04	41.67	175.65	1,637.79	1,201.09	1,647.25	1,581.50	65.76	25.050		
7,650.00	7,052.73	7,373.04	7,055.42	39.32	41.69	-169.42	1,637.73	1,201.06	1,696.70	1,630.91	65.78	25.792		
7,700.00	7,055.85	7,375.97	7,058.36	39.60	41.69	-116.19	1,637.71	1,201.04	1,746.54	1,680.76	65.78	26.553		
7,713.69	7,056.00	7,376.16	7,058.54	39.68	41.69	-93.48	1,637.70	1,201.04	1,760.21	1,694.44	65.77	26.764		
7,800.00	7,056.00	7,376.48	7,058.87	40.23	41.69	-93.65	1,637.70	1,201.04	1,846.36	1,780.64	65.72	28.095		
7,900.00	7,056.00	7,376.86	7,059.24	41.02	41.69	-93.85	1,637.70	1,201.04	1,946.20	1,880.53	65.67	29.638		
8,000.00	7,056.00	7,377.22	7,059.61	41.97	41.70	-94.05	1,637.69	1,201.04	2,046.05	1,980.43	65.62	31.180		
8,100.00	7,056.00	7,384.00	7,066.38	43.10	41.71	-97.61	1,637.63	1,201.01	2,145.93	2,080.31	65.62	32.701		
8,200.00	7,056.00	7,384.00	7,066.38	44.40	41.71	-97.61	1,637.63	1,201.01	2,245.81	2,180.23	65.58	34.243		
8,300.00	7,056.00	7,384.00	7,066.38	45.85	41.71	-97.61	1,637.63	1,201.01	2,345.70	2,280.15	65.55	35.784		
8,400.00	7,056.00	7,384.00	7,066.38	47.44	41.71	-97.61	1,637.63	1,201.01	2,445.60	2,380.07	65.52	37.324		
8,500.00	7,056.00	7,384.00	7,066.38	49.17	41.71	-97.61	1,637.63	1,201.01	2,545.50	2,480.00	65.50	38.864		
8,600.00	7,056.00	7,384.00	7,066.38	51.00	41.71	-97.61	1,637.63	1,201.01	2,645.41	2,579.94	65.48	40.403		
8,700.00	7,056.00	7,384.00	7,066.38	52.93	41.71	-97.61	1,637.63	1,201.01	2,745.33	2,679.87	65.46	41.941		
8,800.00	7,056.00	7,384.00	7,066.38	54.94	41.71	-97.61	1,637.63	1,201.01	2,845.26	2,779.82	65.44	43.478		
8,900.00	7,056.00	7,384.00	7,066.38	57.02	41.71	-97.61	1,637.63	1,201.01	2,945.19	2,879.76	65.43	45.014		
9,000.00	7,056.00	7,384.00	7,066.38	59.16	41.71	-97.61	1,637.63	1,201.01	3,045.12	2,979.70	65.42	46.550		
9,100.00	7,056.00	7,384.00	7,066.38	61.36	41.71	-97.61	1,637.63	1,201.01	3,145.06	3,079.65	65.41	48.084		
9,200.00	7,056.00	7,384.00	7,066.38	63.60	41.71	-97.61	1,637.63	1,201.01	3,245.00	3,179.60	65.40	49.617		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft	
Survey Program: 16-OWSG (Rev2) MWD										Rule Assigned:			Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
400.00	400.00	2,038.06	1,930.89	1.22	12.21	61.00	1,397.42	2,521.32	3,266.32	3,256.78	9.53	342.651			
500.00	500.00	2,084.62	1,971.86	1.58	12.63	61.11	1,382.44	2,505.03	3,219.85	3,209.84	10.02	321.445			
600.00	600.00	2,131.00	2,012.94	1.94	13.05	61.22	1,367.67	2,489.37	3,174.59	3,164.06	10.53	301.481			
700.00	700.00	2,196.55	2,071.27	2.29	13.63	61.37	1,346.93	2,467.87	3,130.29	3,119.13	11.15	280.637			
800.00	800.00	2,257.82	2,126.01	2.65	14.16	61.53	1,327.70	2,448.15	3,086.71	3,074.94	11.77	262.211			
900.00	900.00	2,311.00	2,173.77	3.01	14.62	61.66	1,311.47	2,431.30	3,044.08	3,031.71	12.36	246.226			
1,000.00	1,000.00	2,350.69	2,209.68	3.37	14.95	61.75	1,299.83	2,419.04	3,002.79	2,989.89	12.90	232.825			
1,100.00	1,100.00	2,401.00	2,255.69	3.73	15.36	61.86	1,285.96	2,404.16	2,963.25	2,949.77	13.49	219.734			
1,200.00	1,200.00	2,463.40	2,475.58	4.09	17.39	62.27	1,222.00	2,324.89	2,922.03	2,907.15	14.88	196.365			
1,300.00	1,300.00	2,715.34	2,540.03	4.45	18.02	62.38	1,202.90	2,299.27	2,878.15	2,862.58	15.56	184.919			
1,400.00	1,400.00	2,761.00	2,581.22	4.80	18.42	62.47	1,190.57	2,283.93	2,835.65	2,819.50	16.15	175.603			
1,500.00	1,500.00	2,841.73	2,654.36	5.16	19.11	62.63	1,168.74	2,257.62	2,794.08	2,777.20	16.88	165.529			
1,600.00	1,600.00	2,981.77	2,780.82	5.52	20.31	62.87	1,132.43	2,209.68	2,751.60	2,733.76	17.84	154.242			
1,700.00	1,700.00	3,054.75	2,846.53	5.88	20.94	62.98	1,113.74	2,184.04	2,708.59	2,690.05	18.54	146.116			
1,800.00	1,800.00	3,117.00	2,903.02	6.24	21.47	63.07	1,098.72	2,162.61	2,666.79	2,647.60	19.20	138.930			
1,900.00	1,900.00	3,177.29	2,958.00	6.60	21.97	63.15	1,084.45	2,142.40	2,626.00	2,606.15	19.85	132.313			
2,000.00	2,000.00	3,304.06	3,073.40	6.95	23.03	63.37	1,053.04	2,100.37	2,585.22	2,564.48	20.75	124.607			
2,100.00	2,100.00	3,372.40	3,135.49	7.31	23.61	63.50	1,035.77	2,077.64	2,544.02	2,522.57	21.44	118.644			
2,200.00	2,200.00	3,441.66	3,198.56	7.67	24.18	63.66	1,017.81	2,055.36	2,503.51	2,481.36	22.15	113.030			
2,300.00	2,300.00	3,522.49	3,272.30	8.03	24.85	63.87	995.94	2,030.50	2,463.73	2,440.82	22.91	107.557			
2,400.00	2,399.98	3,674.19	3,410.16	8.39	26.12	64.45	955.99	1,981.43	2,422.22	2,398.30	23.91	101.286			
2,500.00	2,499.84	3,739.00	3,468.93	8.75	26.67	65.56	939.28	1,959.82	2,378.78	2,354.15	24.63	96.589			
2,600.00	2,599.45	3,858.09	3,576.98	9.10	27.68	67.06	908.71	1,920.18	2,334.36	2,308.83	25.53	91.449			
2,700.00	2,698.70	3,978.10	3,684.77	9.46	28.74	68.78	877.05	1,877.96	2,286.65	2,260.21	26.44	86.490			
2,800.00	2,797.47	4,089.78	3,784.61	9.82	29.74	70.72	846.12	1,838.62	2,237.67	2,210.32	27.35	81.821			
2,900.00	2,895.62	4,155.44	3,843.14	10.20	30.33	72.44	827.38	1,815.51	2,187.59	2,159.43	28.15	77.702			
3,000.00	2,993.06	4,212.75	3,894.38	10.58	30.84	74.19	810.78	1,795.92	2,137.69	2,108.72	28.97	73.790			
3,100.00	3,089.64	4,272.00	3,947.65	10.98	31.36	76.06	793.63	1,776.47	2,088.52	2,058.69	29.84	69.999			
3,200.00	3,185.27	4,379.01	4,043.56	11.40	32.30	78.77	761.48	1,741.59	2,039.26	2,008.34	30.92	65.959			
3,300.00	3,279.82	4,430.86	4,090.03	11.85	32.76	80.76	745.88	1,724.67	1,990.07	1,958.18	31.89	62.402			
3,400.00	3,373.17	4,523.98	4,173.58	12.32	33.58	83.57	718.54	1,693.95	1,941.58	1,908.52	33.06	58.723			
3,425.78	3,397.02	4,552.52	4,199.09	12.45	33.83	84.41	710.29	1,684.20	1,929.02	1,895.63	33.39	57.772			
3,500.00	3,465.59	4,612.08	4,252.38	12.83	34.37	85.58	693.64	1,663.44	1,893.11	1,858.82	34.28	55.221			
3,600.00	3,557.97	4,698.93	4,329.79	13.35	35.16	87.35	668.98	1,632.75	1,845.42	1,809.85	35.58	51.873			
3,700.00	3,650.35	4,766.08	4,389.11	13.89	35.78	88.83	647.89	1,609.40	1,798.96	1,762.03	36.93	48.718			
3,800.00	3,742.72	4,838.79	4,453.32	14.45	36.45	90.49	624.68	1,584.40	1,754.40	1,716.02	38.39	45.705			
3,900.00	3,835.10	4,924.50	4,528.66	15.03	37.25	92.53	596.93	1,554.39	1,711.16	1,671.19	39.97	42.808			
4,000.00	3,927.48	5,021.73	4,614.39	15.61	38.17	94.85	568.01	1,518.83	1,669.30	1,627.66	41.63	40.097			
4,100.00	4,019.86	5,118.84	4,699.59	16.21	39.10	97.21	540.80	1,481.00	1,627.73	1,584.40	43.32	37.570			
4,200.00	4,112.23	5,179.47	4,752.92	16.82	39.67	98.70	524.85	1,456.98	1,588.05	1,543.05	45.01	35.285			
4,300.00	4,204.61	5,224.72	4,793.16	17.44	40.09	99.81	513.61	1,439.58	1,551.54	1,504.82	46.71	33.214			
4,400.00	4,296.99	5,247.00	4,813.13	18.06	40.30	100.36	508.29	1,431.27	1,518.83	1,470.41	48.41	31.371			
4,500.00	4,389.37	5,297.29	4,858.82	18.69	40.71	101.60	496.85	1,413.66	1,489.95	1,439.79	50.16	29.701			
4,600.00	4,481.74	5,337.00	4,895.55	19.33	41.03	102.56	488.39	1,401.16	1,465.80	1,413.90	51.90	28.244			
4,700.00	4,574.12	5,381.29	4,936.91	19.98	41.35	103.63	479.20	1,388.25	1,445.92	1,392.31	53.62	26.968			
4,800.00	4,666.50	5,436.43	4,988.65	20.63	41.75	104.98	467.62	1,373.11	1,429.95	1,374.60	55.35	25.834			
4,900.00	4,758.88	5,508.51	5,056.56	21.29	42.25	106.75	452.85	1,354.02	1,417.25	1,360.13	57.12	24.810			
5,000.00	4,851.25	5,564.65	5,109.79	21.95	42.62	108.11	441.98	1,339.84	1,407.89	1,349.11	58.78	23.951			
5,100.00	4,943.63	5,625.90	5,168.37	22.61	43.01	109.56	431.08	1,325.71	1,402.36	1,341.97	60.39	23.221			
5,200.00	5,036.01	5,693.00	5,232.84	23.28	43.41	111.12	419.74	1,310.94	1,399.91	1,337.95	61.96	22.595			
5,225.32	5,059.40	5,712.27	5,251.41	23.45	43.51	111.56	416.61	1,306.87	1,399.77	1,337.42	62.34	22.452	CC, ES		
5,300.00	5,128.39	5,754.27	5,292.09	23.95	43.74	112.51	410.23	1,298.60	1,400.83	1,337.43	63.40	22.095			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,400.00	5,220.76	5,821.07	5,357.24	24.62	44.08	113.95	401.14	1,286.98	1,405.34	1,340.57	64.77	21.697		
5,500.00	5,313.14	5,903.62	5,438.08	25.30	44.47	115.68	390.96	1,273.68	1,412.40	1,346.28	66.12	21.362		
5,600.00	5,405.52	5,989.67	5,522.65	25.98	44.85	117.39	382.16	1,260.47	1,421.04	1,353.65	67.39	21.087		
5,700.00	5,497.90	6,062.73	5,594.73	26.67	45.15	118.78	375.76	1,250.43	1,431.96	1,363.42	68.53	20.895		
5,800.00	5,590.28	6,137.90	5,669.11	27.35	45.44	120.15	369.88	1,241.34	1,445.19	1,375.59	69.60	20.764		
5,900.00	5,682.65	6,225.02	5,755.56	28.04	45.74	121.65	364.37	1,232.13	1,460.23	1,389.59	70.64	20.672		
6,000.00	5,775.03	6,313.94	5,844.01	28.73	46.03	123.08	360.32	1,223.86	1,476.53	1,404.92	71.61	20.620		
6,100.00	5,867.41	6,394.52	5,924.29	29.42	46.26	124.30	357.75	1,217.51	1,494.22	1,421.73	72.48	20.614 SF		
6,200.00	5,959.79	6,474.16	6,003.77	30.11	46.46	125.43	356.06	1,212.56	1,513.48	1,440.18	73.30	20.648		
6,300.00	6,052.16	6,555.03	6,084.53	30.80	46.65	126.51	354.92	1,208.75	1,534.24	1,460.17	74.07	20.714		
6,400.00	6,144.54	6,642.42	6,171.87	31.50	46.84	127.61	354.35	1,205.81	1,556.22	1,481.41	74.82	20.801		
6,500.00	6,236.92	6,727.80	6,257.22	32.20	47.02	128.64	354.07	1,203.44	1,579.11	1,503.58	75.53	20.908		
6,600.00	6,329.30	6,814.05	6,343.45	32.90	47.19	129.64	353.86	1,201.67	1,603.03	1,526.82	76.21	21.034		
6,700.00	6,421.67	6,907.28	6,436.67	33.60	47.38	130.68	353.72	1,200.08	1,627.69	1,550.78	76.90	21.166		
6,800.00	6,514.05	6,996.85	6,526.22	34.30	47.55	131.63	353.93	1,198.79	1,652.80	1,575.24	77.56	21.311		
6,809.17	6,522.52	7,004.78	6,534.15	34.36	47.56	131.72	353.96	1,198.70	1,655.14	1,577.53	77.61	21.325		
6,850.00	6,560.22	7,040.13	6,569.51	34.65	47.63	142.66	354.06	1,198.34	1,666.67	1,588.80	77.87	21.404		
6,900.00	6,606.13	7,083.29	6,612.66	35.00	47.71	155.47	354.15	1,197.97	1,683.63	1,605.47	78.16	21.542		
6,950.00	6,651.44	7,126.46	6,655.83	35.34	47.79	166.98	354.21	1,197.65	1,703.54	1,625.12	78.43	21.721		
7,000.00	6,695.79	7,170.08	6,699.45	35.67	47.87	176.99	354.27	1,197.39	1,726.18	1,647.50	78.68	21.940		
7,050.00	6,738.87	7,213.65	6,743.02	36.00	47.96	-174.36	354.34	1,197.16	1,751.33	1,672.41	78.91	22.194		
7,100.00	6,780.32	7,258.85	6,788.21	36.31	48.04	-166.81	354.43	1,196.84	1,778.72	1,699.59	79.13	22.478		
7,150.00	6,819.85	7,300.89	6,830.25	36.61	48.12	-160.04	354.51	1,196.44	1,808.17	1,728.84	79.32	22.795		
7,200.00	6,857.14	7,336.80	6,866.17	36.91	48.19	-153.75	354.60	1,196.12	1,839.55	1,760.08	79.47	23.148		
7,250.00	6,891.92	7,370.26	6,899.62	37.19	48.25	-147.75	354.68	1,195.86	1,872.71	1,793.12	79.59	23.530		
7,300.00	6,923.92	7,400.34	6,929.71	37.46	48.31	-141.84	354.76	1,195.67	1,907.46	1,827.78	79.68	23.940		
7,350.00	6,952.90	7,427.22	6,956.58	37.73	48.36	-135.89	354.81	1,195.53	1,943.59	1,863.85	79.74	24.375		
7,400.00	6,978.63	7,451.05	6,980.41	37.99	48.41	-129.82	354.83	1,195.42	1,980.90	1,901.13	79.77	24.834		
7,450.00	7,000.93	7,471.73	7,001.09	38.25	48.45	-123.59	354.83	1,195.34	2,019.17	1,939.40	79.77	25.312		
7,500.00	7,019.61	7,490.84	7,020.20	38.51	48.48	-117.25	354.85	1,195.29	2,058.15	1,978.39	79.76	25.805		
7,550.00	7,034.55	7,506.07	7,035.43	38.77	48.51	-110.79	354.88	1,195.26	2,097.61	2,017.89	79.72	26.313		
7,600.00	7,045.61	7,517.32	7,046.68	39.04	48.53	-104.32	354.91	1,195.24	2,137.30	2,057.65	79.65	26.832		
7,650.00	7,052.73	7,524.53	7,053.89	39.32	48.54	-97.95	354.94	1,195.24	2,177.00	2,097.43	79.57	27.359		
7,700.00	7,055.85	7,527.68	7,057.04	39.60	48.55	-91.86	354.95	1,195.24	2,216.43	2,136.96	79.47	27.891		
7,713.69	7,056.00	7,527.83	7,057.19	39.68	48.55	-90.26	354.95	1,195.24	2,227.15	2,147.71	79.44	28.037		
7,800.00	7,056.00	7,527.85	7,057.21	40.23	48.55	-90.26	354.95	1,195.24	2,295.21	2,215.96	79.25	28.961		
7,900.00	7,056.00	7,527.86	7,057.22	41.02	48.55	-90.26	354.95	1,195.24	2,375.55	2,296.49	79.06	30.048		
8,000.00	7,056.00	7,527.87	7,057.23	41.97	48.55	-90.26	354.95	1,195.24	2,457.34	2,378.45	78.89	31.148		
8,100.00	7,056.00	7,527.88	7,057.24	43.10	48.55	-90.26	354.95	1,195.24	2,540.43	2,461.68	78.74	32.262		
8,200.00	7,056.00	7,527.89	7,057.25	44.40	48.55	-90.26	354.95	1,195.24	2,624.70	2,546.08	78.61	33.387		
8,300.00	7,056.00	7,527.91	7,057.27	45.85	48.55	-90.26	354.95	1,195.24	2,710.04	2,631.54	78.50	34.523		
8,400.00	7,056.00	7,527.92	7,057.28	47.44	48.55	-90.26	354.95	1,195.24	2,796.35	2,717.95	78.40	35.668		
8,500.00	7,056.00	7,527.93	7,057.29	49.17	48.55	-90.26	354.95	1,195.24	2,883.54	2,805.23	78.31	36.822		
8,600.00	7,056.00	7,527.94	7,057.30	51.00	48.55	-90.26	354.95	1,195.24	2,971.55	2,893.31	78.23	37.984		
8,700.00	7,056.00	7,527.95	7,057.31	52.93	48.55	-90.26	354.95	1,195.24	3,060.29	2,982.12	78.16	39.153		
8,800.00	7,056.00	7,527.96	7,057.32	54.94	48.55	-90.26	354.95	1,195.24	3,149.70	3,071.60	78.10	40.328		
8,900.00	7,056.00	7,527.97	7,057.33	57.02	48.55	-90.26	354.95	1,195.24	3,239.73	3,161.69	78.05	41.510		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft	
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Highside		Distance		Separation		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
500.00	500.00	1,693.00	1,640.06	1.58	8.61	101.08	-582.98	2,977.81	3,248.89	3,240.53	8.37	388.309			
600.00	600.00	1,781.00	1,720.89	1.94	9.30	101.38	-592.87	2,944.44	3,213.27	3,204.14	9.13	351.945			
700.00	700.00	1,892.26	1,823.13	2.29	10.18	101.78	-605.07	2,902.29	3,177.80	3,167.77	10.03	316.958			
800.00	800.00	2,031.18	1,950.28	2.65	11.31	102.26	-618.64	2,848.02	3,140.99	3,129.93	11.07	283.822			
900.00	900.00	2,109.63	2,022.06	3.01	11.95	102.52	-625.46	2,817.11	3,103.85	3,092.04	11.81	262.716			
1,000.00	1,000.00	2,186.60	2,092.74	3.37	12.57	102.77	-631.70	2,787.28	3,067.31	3,054.75	12.56	244.185			
1,100.00	1,100.00	2,293.43	2,190.89	3.73	13.44	103.13	-640.45	2,746.00	3,031.00	3,017.55	13.45	225.295			
1,200.00	1,200.00	2,443.04	2,327.85	4.09	14.67	103.61	-650.46	2,686.65	2,993.50	2,978.96	14.54	205.844			
1,300.00	1,300.00	2,553.58	2,428.22	4.45	15.62	104.01	-658.84	2,641.09	2,954.68	2,939.21	15.47	190.996			
1,400.00	1,400.00	2,610.30	2,479.77	4.80	16.10	104.21	-663.02	2,617.82	2,916.21	2,900.05	16.15	180.521			
1,500.00	1,500.00	2,667.00	2,531.68	5.16	16.58	104.42	-667.60	2,595.49	2,879.30	2,862.46	16.84	170.931			
1,600.00	1,600.00	2,703.16	2,564.98	5.52	16.87	104.56	-670.74	2,581.74	2,843.84	2,826.40	17.44	163.025			
1,700.00	1,700.00	2,756.00	2,613.85	5.88	17.29	104.77	-675.65	2,562.26	2,809.91	2,791.79	18.13	155.021			
1,800.00	1,800.00	2,910.71	2,756.20	6.24	18.54	105.45	-691.96	2,503.93	2,775.50	2,756.18	19.32	143.684			
1,900.00	1,900.00	3,020.00	2,855.88	6.60	19.47	105.97	-704.13	2,460.81	2,739.65	2,719.34	20.31	134.872			
2,000.00	2,000.00	3,090.31	2,920.18	6.95	20.05	106.31	-711.87	2,433.44	2,704.48	2,683.36	21.12	128.038			
2,100.00	2,100.00	3,167.43	2,990.93	7.31	20.69	106.68	-720.17	2,403.89	2,670.01	2,648.05	21.97	121.537			
2,200.00	2,200.00	3,248.12	3,065.14	7.67	21.35	107.07	-728.76	2,373.38	2,636.14	2,613.31	22.83	115.444			
2,300.00	2,300.00	3,323.38	3,134.59	8.03	21.95	107.43	-736.16	2,345.38	2,602.84	2,579.17	23.67	109.958			
2,400.00	2,399.98	3,398.29	3,204.22	8.39	22.53	107.74	-742.30	2,318.43	2,570.92	2,546.42	24.50	104.944			
2,500.00	2,499.84	3,486.41	3,286.54	8.75	23.20	108.80	-747.52	2,287.44	2,540.41	2,515.03	25.37	100.120			
2,600.00	2,599.45	3,557.21	3,352.80	9.10	23.72	109.79	-752.03	2,262.91	2,511.76	2,485.57	26.19	95.890			
2,700.00	2,698.70	3,672.99	3,461.23	9.46	24.59	111.13	-759.55	2,223.02	2,484.81	2,457.59	27.23	91.268			
2,800.00	2,797.47	3,862.38	3,636.90	9.82	26.06	113.12	-767.60	2,152.77	2,455.69	2,427.14	28.55	86.023			
2,900.00	2,895.62	4,004.28	3,767.54	10.20	27.22	114.91	-772.87	2,097.65	2,427.41	2,397.70	29.71	81.692			
3,000.00	2,993.06	4,081.00	3,837.51	10.58	27.87	116.20	-776.44	2,066.37	2,399.36	2,368.64	30.72	78.112			
3,100.00	3,089.64	4,126.17	3,878.84	10.98	28.24	117.15	-778.80	2,048.30	2,374.49	2,342.85	31.64	75.058			
3,200.00	3,185.27	4,171.00	3,920.29	11.40	28.61	118.04	-781.43	2,031.43	2,353.90	2,321.31	32.59	72.232			
3,300.00	3,279.82	4,222.91	3,968.52	11.85	29.02	118.98	-784.91	2,012.55	2,337.28	2,303.67	33.61	69.547			
3,400.00	3,373.17	4,367.66	4,101.89	12.32	30.19	121.21	-797.38	1,957.75	2,323.16	2,288.03	35.13	66.129			
3,425.78	3,397.02	4,389.21	4,121.54	12.45	30.38	121.58	-799.44	1,949.15	2,319.64	2,284.17	35.47	65.402			
3,500.00	3,465.59	4,447.88	4,175.01	12.83	30.88	122.44	-805.09	1,925.70	2,310.17	2,273.73	36.44	63.399			
3,600.00	3,557.97	4,521.00	4,241.66	13.35	31.51	123.52	-812.54	1,896.54	2,298.97	2,261.22	37.75	60.903			
3,700.00	3,650.35	4,585.76	4,300.67	13.89	32.06	124.50	-819.63	1,870.82	2,289.67	2,250.62	39.05	58.641			
3,800.00	3,742.72	4,652.19	4,361.25	14.45	32.62	125.50	-827.18	1,844.63	2,282.32	2,241.96	40.37	56.541			
3,900.00	3,835.10	4,719.33	4,422.85	15.03	33.18	126.50	-834.30	1,818.89	2,277.04	2,235.34	41.69	54.613			
4,000.00	3,927.48	4,792.00	4,489.64	15.61	33.78	127.58	-842.13	1,791.36	2,273.67	2,230.61	43.06	52.806			
4,100.00	4,019.86	4,888.38	4,578.37	16.21	34.57	129.01	-852.07	1,755.05	2,271.83	2,227.27	44.56	50.986			
4,200.00	4,112.23	5,074.31	4,747.33	16.82	36.18	131.80	-868.74	1,679.34	2,268.09	2,221.49	46.59	48.679			
4,300.00	4,204.61	5,122.56	4,791.09	17.44	36.60	132.53	-872.68	1,659.39	2,265.73	2,217.86	47.87	47.328			
4,338.46	4,240.14	5,142.00	4,808.78	17.68	36.78	132.82	-874.37	1,651.51	2,265.54	2,217.18	48.37	46.840	CC		
4,400.00	4,296.99	5,195.76	4,857.73	18.06	37.24	133.62	-879.06	1,629.80	2,265.81	2,216.53	49.28	45.976	ES		
4,500.00	4,389.37	5,268.69	4,924.09	18.69	37.88	134.72	-885.47	1,600.21	2,267.41	2,216.72	50.69	44.728			
4,600.00	4,481.74	5,335.75	4,984.76	19.33	38.47	135.75	-892.64	1,572.58	2,271.13	2,219.05	52.08	43.610			
4,700.00	4,574.12	5,406.00	5,048.19	19.98	39.09	136.83	-900.47	1,543.41	2,276.57	2,223.09	53.48	42.565			
4,800.00	4,666.50	5,467.70	5,104.13	20.63	39.63	137.78	-907.32	1,518.28	2,284.12	2,229.32	54.80	41.679			
4,900.00	4,758.88	5,523.85	5,155.41	21.29	40.11	138.62	-913.61	1,496.30	2,294.18	2,238.13	56.05	40.931			
5,000.00	4,851.25	5,584.00	5,210.55	21.95	40.61	139.51	-920.56	1,473.31	2,306.50	2,249.21	57.29	40.259			
5,100.00	4,943.63	5,649.89	5,271.61	22.61	41.12	140.45	-927.54	1,449.56	2,320.89	2,262.38	58.51	39.668			
5,200.00	5,036.01	5,714.41	5,332.23	23.28	41.59	141.31	-933.18	1,428.23	2,337.11	2,277.45	59.66	39.176			
5,300.00	5,128.39	5,760.00	5,375.28	23.95	41.92	141.90	-937.15	1,413.72	2,355.32	2,294.69	60.64	38.842			
5,400.00	5,220.76	5,825.26	5,437.12	24.62	42.36	142.74	-943.18	1,393.77	2,375.56	2,313.85	61.71	38.498			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,500.00	5,313.14	5,961.91	5,567.26	25.30	43.25	144.41	-954.26	1,353.65	2,396.64	2,333.45	63.19	37.928		
5,600.00	5,405.52	6,025.00	5,627.81	25.98	43.64	145.13	-958.02	1,336.33	2,418.10	2,353.93	64.17	37.683		
5,700.00	5,497.90	6,092.04	5,692.38	26.67	44.04	145.88	-962.13	1,318.79	2,441.16	2,376.03	65.13	37.480		
5,800.00	5,590.28	6,164.63	5,762.43	27.35	44.45	146.66	-966.79	1,300.34	2,465.60	2,399.50	66.09	37.305		
5,900.00	5,682.65	6,253.98	5,849.37	28.04	44.92	147.55	-971.23	1,280.27	2,491.08	2,423.99	67.09	37.129		
6,000.00	5,775.03	6,331.68	5,925.62	28.73	45.28	148.24	-973.32	1,265.46	2,517.04	2,449.08	67.96	37.036		
6,100.00	5,867.41	6,396.13	5,989.26	29.42	45.55	148.76	-974.50	1,255.37	2,544.33	2,475.61	68.72	37.025 SF		
6,200.00	5,959.79	6,467.00	6,059.54	30.11	45.80	149.28	-975.49	1,246.28	2,572.91	2,503.45	69.46	37.043		
6,300.00	6,052.16	6,530.30	6,122.48	30.80	46.00	149.70	-976.22	1,239.66	2,602.66	2,532.54	70.12	37.117		
6,400.00	6,144.54	6,602.96	6,194.88	31.50	46.22	150.15	-976.95	1,233.51	2,633.46	2,562.66	70.80	37.198		
6,500.00	6,236.92	6,680.41	6,272.15	32.20	46.43	150.60	-977.59	1,228.26	2,665.06	2,593.60	71.46	37.292		
6,600.00	6,329.30	6,761.30	6,352.93	32.90	46.63	151.03	-978.01	1,224.07	2,697.30	2,625.17	72.12	37.398		
6,700.00	6,421.67	6,844.36	6,435.92	33.60	46.82	151.43	-978.28	1,220.78	2,730.04	2,657.27	72.77	37.515		
6,800.00	6,514.05	6,918.92	6,510.45	34.30	46.99	151.78	-978.52	1,218.57	2,763.34	2,689.97	73.37	37.662		
6,809.17	6,522.52	6,925.47	6,517.00	34.36	47.00	151.81	-978.56	1,218.41	2,766.44	2,693.01	73.43	37.677		
6,850.00	6,560.22	6,954.62	6,546.14	34.65	47.06	163.09	-978.75	1,217.74	2,780.91	2,707.25	73.65	37.756		
6,900.00	6,606.13	6,998.00	6,589.51	35.00	47.15	176.30	-979.13	1,216.93	2,800.39	2,726.45	73.95	37.871		
6,950.00	6,651.44	7,029.56	6,621.06	35.34	47.22	-171.82	-979.45	1,216.44	2,821.59	2,747.43	74.16	38.047		
7,000.00	6,695.79	7,069.43	6,660.92	35.67	47.30	-161.51	-979.89	1,215.89	2,844.30	2,769.92	74.39	38.237		
7,050.00	6,738.87	7,108.11	6,699.60	36.00	47.37	-152.64	-980.35	1,215.44	2,868.36	2,793.78	74.58	38.459		
7,100.00	6,780.32	7,145.97	6,737.46	36.31	47.45	-144.96	-980.83	1,215.08	2,893.61	2,818.86	74.75	38.709		
7,150.00	6,819.85	7,183.19	6,774.67	36.61	47.52	-138.22	-981.31	1,214.76	2,919.88	2,844.98	74.90	38.984		
7,200.00	6,857.14	7,218.29	6,809.77	36.91	47.58	-132.19	-981.79	1,214.48	2,947.01	2,871.99	75.02	39.283		
7,250.00	6,891.92	7,251.01	6,842.48	37.19	47.65	-126.69	-982.24	1,214.25	2,974.86	2,899.74	75.11	39.604		
7,300.00	6,923.92	7,283.68	6,875.15	37.46	47.70	-121.64	-982.68	1,214.09	3,003.27	2,928.08	75.19	39.942		
7,350.00	6,952.90	7,314.44	6,905.91	37.73	47.76	-116.94	-982.95	1,214.16	3,032.10	2,956.85	75.25	40.295		
7,400.00	6,978.63	7,341.25	6,932.72	37.99	47.80	-112.51	-983.07	1,214.40	3,061.19	2,985.90	75.28	40.661		
7,450.00	7,000.93	7,363.95	6,955.42	38.25	47.84	-108.29	-983.09	1,214.74	3,090.42	3,015.12	75.30	41.039		
7,500.00	7,019.61	7,382.44	6,973.90	38.51	47.87	-104.27	-983.05	1,215.11	3,119.65	3,044.34	75.31	41.424		
7,550.00	7,034.55	7,396.66	6,988.12	38.77	47.89	-100.44	-982.99	1,215.44	3,148.72	3,073.42	75.30	41.814		
7,600.00	7,045.61	7,406.17	6,997.62	39.04	47.91	-96.79	-982.93	1,215.69	3,177.49	3,102.20	75.28	42.206		
7,650.00	7,052.73	7,411.71	7,003.16	39.32	47.91	-93.37	-982.89	1,215.85	3,205.77	3,130.50	75.26	42.595		
7,700.00	7,055.85	7,413.35	7,004.80	39.60	47.91	-90.19	-982.88	1,215.89	3,233.38	3,158.14	75.24	42.976		
7,713.69	7,056.00	7,413.13	7,004.58	39.68	47.91	-89.36	-982.88	1,215.89	3,240.80	3,165.57	75.23	43.079		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD MIRACLE 13-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
700.00	700.00	1,865.00	1,762.68	2.29	11.41	105.52	-819.75	2,951.78	3,249.85	3,237.74	12.11	268.357		
800.00	800.00	1,938.78	1,827.71	2.65	12.10	106.02	-838.90	2,922.66	3,216.76	3,203.73	13.03	246.874		
900.00	900.00	2,000.72	1,882.42	3.01	12.67	106.44	-855.15	2,898.60	3,184.65	3,170.77	13.88	229.415		
1,000.00	1,000.00	2,058.42	1,933.36	3.37	13.20	106.85	-870.96	2,876.57	3,153.71	3,139.00	14.72	214.304		
1,100.00	1,100.00	2,129.00	1,996.00	3.73	13.85	107.35	-890.35	2,850.46	3,124.19	3,108.53	15.66	199.552		
1,200.00	1,200.00	2,163.32	2,026.63	4.09	14.15	107.59	-899.75	2,838.16	3,095.94	3,079.61	16.33	189.567		
1,300.00	1,300.00	2,218.00	2,075.61	4.45	14.64	107.98	-914.86	2,819.14	3,069.31	3,052.15	17.16	178.839		
1,400.00	1,400.00	2,290.28	2,140.41	4.80	15.27	108.51	-935.30	2,794.49	3,043.88	3,025.75	18.13	167.857		
1,500.00	1,500.00	2,354.33	2,197.70	5.16	15.84	108.99	-954.04	2,772.82	3,019.39	3,000.33	19.06	158.439		
1,600.00	1,600.00	2,418.72	2,255.31	5.52	16.41	109.48	-973.40	2,751.56	2,996.22	2,976.22	19.99	149.858		
1,700.00	1,700.00	2,506.04	2,333.30	5.88	17.18	110.17	-1,000.36	2,723.00	2,974.03	2,952.91	21.12	140.791		
1,800.00	1,800.00	2,646.01	2,457.57	6.24	18.44	111.32	-1,044.00	2,675.63	2,951.40	2,928.70	22.70	130.022		
1,900.00	1,900.00	2,708.25	2,512.73	6.60	19.00	111.83	-1,063.34	2,654.25	2,928.93	2,905.27	23.66	123.797		
2,000.00	2,000.00	2,763.77	2,562.34	6.95	19.50	112.28	-1,080.28	2,635.98	2,908.07	2,883.50	24.56	118.388		
2,100.00	2,100.00	2,838.00	2,628.87	7.31	20.15	112.89	-1,103.18	2,612.31	2,888.70	2,863.09	25.61	112.774		
2,200.00	2,200.00	2,942.89	2,722.43	7.67	21.08	113.78	-1,136.37	2,578.44	2,869.86	2,842.92	26.94	106.539		
2,300.00	2,300.00	3,018.40	2,789.27	8.03	21.76	114.45	-1,161.17	2,553.59	2,851.41	2,823.36	28.04	101.686		
2,400.00	2,399.98	3,115.09	2,874.65	8.39	22.65	114.98	-1,193.43	2,521.65	2,834.38	2,805.03	29.34	96.589		
2,500.00	2,499.84	3,229.80	2,975.99	8.75	23.70	116.40	-1,231.24	2,483.48	2,819.32	2,788.51	30.81	91.500		
2,600.00	2,599.45	3,347.86	3,080.31	9.10	24.79	117.89	-1,268.50	2,442.65	2,804.94	2,772.62	32.32	86.794		
2,700.00	2,698.70	3,464.43	3,183.49	9.46	25.87	119.39	-1,304.41	2,401.97	2,792.79	2,758.98	33.81	82.591		
2,800.00	2,797.47	3,563.21	3,271.32	9.82	26.77	120.68	-1,333.31	2,367.23	2,782.60	2,747.44	35.16	79.141		
2,900.00	2,895.62	3,686.65	3,380.88	10.20	27.91	122.29	-1,368.38	2,322.48	2,774.07	2,737.34	36.72	75.541		
3,000.00	2,993.06	3,757.65	3,443.74	10.58	28.57	123.27	-1,388.52	2,296.33	2,768.29	2,730.41	37.89	73.070		
3,100.00	3,089.64	3,825.84	3,504.02	10.98	29.21	124.19	-1,408.47	2,271.43	2,766.31	2,727.27	39.05	70.844		
3,143.63	3,131.49	3,878.07	3,549.60	11.17	29.71	124.91	-1,424.29	2,251.47	2,766.09	2,726.33	39.77	69.559 CC		
3,200.00	3,185.27	3,937.71	3,601.44	11.40	30.30	125.73	-1,442.60	2,228.34	2,766.81	2,726.18	40.64	68.083 ES		
3,300.00	3,279.82	3,987.00	3,644.09	11.85	30.79	126.37	-1,458.07	2,209.09	2,771.24	2,729.54	41.70	66.454		
3,400.00	3,373.17	4,052.11	3,700.44	12.32	31.44	127.20	-1,478.76	2,183.87	2,779.85	2,736.93	42.92	64.770		
3,425.78	3,397.02	4,066.70	3,713.08	12.45	31.59	127.38	-1,483.42	2,178.26	2,782.75	2,739.54	43.21	64.396		
3,500.00	3,465.59	4,107.18	3,748.16	12.83	31.99	127.99	-1,496.37	2,162.76	2,792.15	2,748.10	44.04	63.397		
3,600.00	3,557.97	4,163.00	3,796.66	13.35	32.54	128.83	-1,514.23	2,141.69	2,806.72	2,761.55	45.16	62.146		
3,700.00	3,650.35	4,209.66	3,837.43	13.89	32.98	129.52	-1,529.06	2,124.50	2,823.51	2,777.34	46.17	61.152		
3,800.00	3,742.72	4,262.14	3,883.65	14.45	33.48	130.29	-1,545.50	2,105.84	2,842.55	2,795.34	47.22	60.202		
3,900.00	3,835.10	4,337.46	3,950.31	15.03	34.18	131.37	-1,568.67	2,079.56	2,863.37	2,814.93	48.44	59.106		
4,000.00	3,927.48	4,399.63	4,005.27	15.61	34.76	132.26	-1,587.92	2,057.75	2,885.83	2,836.29	49.54	58.251		
4,100.00	4,019.86	4,536.11	4,124.89	16.21	36.06	134.22	-1,630.61	2,007.82	2,909.40	2,858.07	51.34	56.673		
4,200.00	4,112.23	4,605.84	4,186.28	16.82	36.73	135.20	-1,651.36	1,982.10	2,933.58	2,881.09	52.48	55.897		
4,300.00	4,204.61	4,756.06	4,319.02	17.44	38.13	137.27	-1,693.41	1,925.74	2,957.78	2,903.46	54.32	54.449		
4,400.00	4,296.99	4,887.77	4,436.28	18.06	39.35	139.01	-1,726.95	1,876.04	2,982.23	2,926.29	55.95	53.304		
4,500.00	4,389.37	4,939.86	4,482.18	18.69	39.85	139.71	-1,740.54	1,855.48	3,007.66	2,950.77	56.89	52.866		
4,600.00	4,481.74	4,996.58	4,531.98	19.33	40.39	140.47	-1,755.81	1,833.05	3,034.92	2,977.06	57.86	52.451		
4,700.00	4,574.12	5,049.00	4,577.80	19.98	40.90	141.17	-1,770.31	1,812.11	3,063.86	3,005.09	58.77	52.131		
4,800.00	4,666.50	5,099.52	4,621.94	20.63	41.39	141.84	-1,784.55	1,792.09	3,094.61	3,034.97	59.64	51.888		
4,900.00	4,758.88	5,136.00	4,653.93	21.29	41.75	142.32	-1,794.94	1,777.96	3,127.26	3,066.91	60.35	51.819		
5,000.00	4,851.25	5,190.04	4,701.54	21.95	42.26	143.02	-1,810.44	1,757.64	3,161.70	3,100.51	61.19	51.672 SF		
5,100.00	4,943.63	5,224.00	4,731.63	22.61	42.58	143.45	-1,820.22	1,745.29	3,197.95	3,136.13	61.81	51.738		
5,200.00	5,036.01	5,263.17	4,766.42	23.28	42.94	143.94	-1,831.73	1,731.47	3,236.06	3,173.62	62.45	51.822		
5,300.00	5,128.39	5,313.00	4,810.72	23.95	43.39	144.55	-1,847.01	1,714.53	3,276.27	3,213.11	63.16	51.871		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN VERT KNESS 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	6.00	6.00	0.00	0.07	-25.06	2,933.74	-1,372.03	3,238.71					
100.00	100.00	106.00	106.00	0.14	1.34	-25.06	2,933.74	-1,372.03	3,238.71	3,237.24	1.48	2,189.815		
200.00	200.00	206.00	206.00	0.50	3.61	-25.06	2,933.74	-1,372.03	3,238.71	3,234.60	4.11	787.159		
300.00	300.00	306.00	306.00	0.86	5.69	-25.06	2,933.74	-1,372.03	3,238.71	3,232.17	6.55	494.531		
400.00	400.00	406.00	406.00	1.22	7.73	-25.06	2,933.74	-1,372.03	3,238.71	3,229.77	8.95	361.911		
500.00	500.00	506.00	506.00	1.58	9.76	-25.06	2,933.74	-1,372.03	3,238.71	3,227.38	11.34	285.700		
600.00	600.00	606.00	606.00	1.94	11.78	-25.06	2,933.74	-1,372.03	3,238.71	3,225.00	13.72	236.107		
700.00	700.00	706.00	706.00	2.29	13.80	-25.06	2,933.74	-1,372.03	3,238.71	3,222.62	16.09	201.228		
800.00	800.00	806.00	806.00	2.65	15.82	-25.06	2,933.74	-1,372.03	3,238.71	3,220.24	18.47	175.347		
900.00	900.00	906.00	906.00	3.01	17.83	-25.06	2,933.74	-1,372.03	3,238.71	3,217.87	20.84	155.376		
1,000.00	1,000.00	1,006.00	1,006.00	3.37	19.85	-25.06	2,933.74	-1,372.03	3,238.71	3,215.50	23.22	139.494		
1,100.00	1,100.00	1,106.00	1,106.00	3.73	21.86	-25.06	2,933.74	-1,372.03	3,238.71	3,213.12	25.59	126.561		
1,200.00	1,200.00	1,206.00	1,206.00	4.09	23.88	-25.06	2,933.74	-1,372.03	3,238.71	3,210.75	27.96	115.825		
1,300.00	1,300.00	1,306.00	1,306.00	4.45	25.89	-25.06	2,933.74	-1,372.03	3,238.71	3,208.38	30.33	106.770		
1,400.00	1,400.00	1,406.00	1,406.00	4.80	27.90	-25.06	2,933.74	-1,372.03	3,238.71	3,206.01	32.70	99.028		
1,500.00	1,500.00	1,506.00	1,506.00	5.16	29.91	-25.06	2,933.74	-1,372.03	3,238.71	3,203.64	35.08	92.334		
1,600.00	1,600.00	1,606.00	1,606.00	5.52	31.93	-25.06	2,933.74	-1,372.03	3,238.71	3,201.27	37.45	86.489		
1,700.00	1,700.00	1,706.00	1,706.00	5.88	33.94	-25.06	2,933.74	-1,372.03	3,238.71	3,198.90	39.82	81.339		
1,800.00	1,800.00	1,806.00	1,806.00	6.24	35.95	-25.06	2,933.74	-1,372.03	3,238.71	3,196.53	42.19	76.769		
1,900.00	1,900.00	1,906.00	1,906.00	6.60	37.96	-25.06	2,933.74	-1,372.03	3,238.71	3,194.16	44.56	72.685		
2,000.00	2,000.00	2,006.00	2,006.00	6.95	39.97	-25.06	2,933.74	-1,372.03	3,238.71	3,191.79	46.93	69.014		
2,100.00	2,100.00	2,106.00	2,106.00	7.31	41.99	-25.06	2,933.74	-1,372.03	3,238.71	3,189.42	49.30	65.696		
2,200.00	2,200.00	2,206.00	2,206.00	7.67	44.00	-25.06	2,933.74	-1,372.03	3,238.71	3,187.05	51.67	62.682		
2,300.00	2,300.00	2,306.00	2,306.00	8.03	46.01	-25.06	2,933.74	-1,372.03	3,238.71	3,184.68	54.04	59.933		
2,400.00	2,399.98	2,405.98	2,405.98	8.39	48.02	-25.78	2,933.74	-1,372.03	3,237.14	3,180.73	56.41	57.388		
2,500.00	2,499.84	2,505.84	2,505.84	8.75	50.03	-25.86	2,933.74	-1,372.03	3,232.43	3,173.66	58.78	54.997		
2,600.00	2,599.45	2,605.45	2,605.45	9.10	52.03	-25.99	2,933.74	-1,372.03	3,224.59	3,163.45	61.14	52.744		
2,700.00	2,698.70	2,704.70	2,704.70	9.46	54.03	-26.19	2,933.74	-1,372.03	3,213.63	3,150.14	63.49	50.616		
2,800.00	2,797.47	2,803.47	2,803.47	9.82	56.02	-26.44	2,933.74	-1,372.03	3,199.57	3,133.74	65.83	48.601		
2,900.00	2,895.62	2,901.62	2,901.62	10.20	57.99	-26.74	2,933.74	-1,372.03	3,182.44	3,114.28	68.17	46.687		
3,000.00	2,993.06	2,999.06	2,999.06	10.58	59.95	-27.11	2,933.74	-1,372.03	3,162.28	3,091.80	70.48	44.865		
3,100.00	3,089.64	3,095.64	3,095.64	10.98	61.89	-27.55	2,933.74	-1,372.03	3,139.13	3,066.34	72.79	43.127		
3,200.00	3,185.27	3,191.27	3,191.27	11.40	63.82	-28.05	2,933.74	-1,372.03	3,113.02	3,037.94	75.08	41.464		
3,300.00	3,279.82	3,285.82	3,285.82	11.85	65.72	-28.62	2,933.74	-1,372.03	3,084.02	3,006.67	77.35	39.872		
3,400.00	3,373.17	3,379.17	3,379.17	12.32	67.59	-29.26	2,933.74	-1,372.03	3,052.17	2,972.57	79.60	38.343		
3,425.78	3,397.02	3,403.02	3,403.02	12.45	68.07	-29.44	2,933.74	-1,372.03	3,043.51	2,963.33	80.18	37.957		
3,500.00	3,465.59	3,471.59	3,471.59	12.83	69.45	-29.70	2,933.74	-1,372.03	3,018.34	2,936.49	81.85	36.879		
3,600.00	3,557.97	3,563.97	3,563.97	13.35	71.31	-30.06	2,933.74	-1,372.03	2,984.51	2,900.42	84.09	35.490		
3,700.00	3,650.35	3,656.35	3,656.35	13.89	73.17	-30.42	2,933.74	-1,372.03	2,950.79	2,864.44	86.35	34.171		
3,800.00	3,742.72	3,748.72	3,748.72	14.45	75.03	-30.80	2,933.74	-1,372.03	2,917.19	2,828.57	88.62	32.918		
3,900.00	3,835.10	3,841.10	3,841.10	15.03	76.88	-31.18	2,933.74	-1,372.03	2,883.71	2,792.81	90.90	31.725		
4,000.00	3,927.48	3,933.48	3,933.48	15.61	78.74	-31.57	2,933.74	-1,372.03	2,850.34	2,757.16	93.18	30.588		
4,100.00	4,019.86	4,025.86	4,025.86	16.21	80.60	-31.97	2,933.74	-1,372.03	2,817.10	2,721.62	95.48	29.505		
4,200.00	4,112.23	4,118.23	4,118.23	16.82	82.46	-32.38	2,933.74	-1,372.03	2,783.99	2,686.21	97.78	28.471		
4,300.00	4,204.61	4,210.61	4,210.61	17.44	84.32	-32.79	2,933.74	-1,372.03	2,751.02	2,650.92	100.09	27.484		
4,400.00	4,296.99	4,302.99	4,302.99	18.06	86.17	-33.22	2,933.74	-1,372.03	2,718.18	2,615.77	102.41	26.541		
4,500.00	4,389.37	4,395.37	4,395.37	18.69	88.03	-33.66	2,933.74	-1,372.03	2,685.49	2,580.75	104.74	25.639		
4,600.00	4,481.74	4,487.74	4,487.74	19.33	89.89	-34.11	2,933.74	-1,372.03	2,652.95	2,545.87	107.08	24.776		
4,700.00	4,574.12	4,580.12	4,580.12	19.98	91.75	-34.56	2,933.74	-1,372.03	2,620.57	2,511.14	109.42	23.949		
4,800.00	4,666.50	4,672.50	4,672.50	20.63	93.61	-35.03	2,933.74	-1,372.03	2,588.34	2,476.57	111.78	23.157		
4,900.00	4,758.88	4,764.88	4,764.88	21.29	95.46	-35.51	2,933.74	-1,372.03	2,556.28	2,442.15	114.14	22.397		
5,000.00	4,851.25	4,857.25	4,857.25	21.95	97.32	-36.01	2,933.74	-1,372.03	2,524.40	2,407.90	116.50	21.668		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN VERT KNESS 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,943.63	4,949.63	4,949.63	22.61	99.18	-36.51	2,933.74	-1,372.03	2,492.70	2,373.82	118.88	20.968		
5,200.00	5,036.01	5,042.01	5,042.01	23.28	101.04	-37.03	2,933.74	-1,372.03	2,461.18	2,339.92	121.27	20.295		
5,300.00	5,128.39	5,134.39	5,134.39	23.95	102.89	-37.55	2,933.74	-1,372.03	2,429.86	2,306.20	123.66	19.649		
5,400.00	5,220.76	5,226.76	5,226.76	24.62	104.75	-38.10	2,933.74	-1,372.03	2,398.75	2,272.68	126.07	19.028		
5,500.00	5,313.14	5,319.14	5,319.14	25.30	106.61	-38.65	2,933.74	-1,372.03	2,367.84	2,239.36	128.48	18.430		
5,600.00	5,405.52	5,411.52	5,411.52	25.98	108.47	-39.22	2,933.74	-1,372.03	2,337.15	2,206.25	130.90	17.855		
5,700.00	5,497.90	5,503.90	5,503.90	26.67	110.33	-39.80	2,933.74	-1,372.03	2,306.69	2,173.36	133.33	17.301		
5,800.00	5,590.28	5,596.28	5,596.28	27.35	112.18	-40.40	2,933.74	-1,372.03	2,276.46	2,140.69	135.77	16.767		
5,900.00	5,682.65	5,688.65	5,688.65	28.04	114.04	-41.01	2,933.74	-1,372.03	2,246.49	2,108.27	138.22	16.253		
6,000.00	5,775.03	5,781.03	5,781.03	28.73	115.90	-41.64	2,933.74	-1,372.03	2,216.76	2,076.08	140.68	15.758		
6,100.00	5,867.41	5,873.41	5,873.41	29.42	117.76	-42.29	2,933.74	-1,372.03	2,187.31	2,044.16	143.15	15.280		
6,200.00	5,959.79	5,965.79	5,965.79	30.11	119.61	-42.95	2,933.74	-1,372.03	2,158.13	2,012.50	145.63	14.819		
6,300.00	6,052.16	6,058.16	6,058.16	30.80	121.47	-43.62	2,933.74	-1,372.03	2,129.24	1,981.12	148.12	14.375		
6,400.00	6,144.54	6,150.54	6,150.54	31.50	123.33	-44.32	2,933.74	-1,372.03	2,100.65	1,950.03	150.62	13.947		
6,500.00	6,236.92	6,242.92	6,242.92	32.20	125.19	-45.03	2,933.74	-1,372.03	2,072.37	1,919.24	153.13	13.533		
6,600.00	6,329.30	6,335.30	6,335.30	32.90	127.04	-45.76	2,933.74	-1,372.03	2,044.42	1,888.77	155.65	13.134		
6,700.00	6,421.67	6,427.67	6,427.67	33.60	128.90	-46.51	2,933.74	-1,372.03	2,016.81	1,858.62	158.19	12.749		
6,800.00	6,514.05	6,520.05	6,520.05	34.30	130.76	-47.28	2,933.74	-1,372.03	1,989.56	1,828.82	160.74	12.378		
6,809.17	6,522.52	6,528.52	6,528.52	34.36	130.93	-47.35	2,933.74	-1,372.03	1,987.08	1,826.11	160.97	12.344		
6,850.00	6,560.22	6,566.22	6,566.22	34.65	131.69	-36.99	2,933.74	-1,372.03	1,975.06	1,813.06	162.00	12.192		
6,900.00	6,606.13	6,612.13	6,612.13	35.00	132.61	-24.75	2,933.74	-1,372.03	1,957.72	1,794.50	163.22	11.995		
6,950.00	6,651.44	6,657.44	6,657.44	35.34	133.52	-13.65	2,933.74	-1,372.03	1,937.57	1,773.19	164.38	11.787		
7,000.00	6,695.79	6,701.79	6,701.79	35.67	134.42	-3.85	2,933.74	-1,372.03	1,914.73	1,749.26	165.47	11.571		
7,050.00	6,738.87	6,744.87	6,744.87	36.00	135.28	4.82	2,933.74	-1,372.03	1,889.37	1,722.88	166.49	11.349		
7,100.00	6,780.32	6,786.32	6,786.32	36.31	136.12	12.67	2,933.74	-1,372.03	1,861.67	1,694.26	167.41	11.120		
7,150.00	6,819.85	6,825.85	6,825.85	36.61	136.91	20.03	2,933.74	-1,372.03	1,831.87	1,663.63	168.25	10.888		
7,200.00	6,857.14	6,863.14	6,863.14	36.91	137.66	27.16	2,933.74	-1,372.03	1,800.24	1,631.26	168.98	10.653		
7,250.00	6,891.92	6,897.92	6,897.92	37.19	138.36	34.25	2,933.74	-1,372.03	1,767.06	1,597.45	169.61	10.418		
7,300.00	6,923.92	6,929.92	6,929.92	37.46	139.00	41.39	2,933.74	-1,372.03	1,732.68	1,562.55	170.13	10.185		
7,350.00	6,952.90	6,958.90	6,958.90	37.73	139.59	48.60	2,933.74	-1,372.03	1,697.45	1,526.91	170.53	9.954		
7,400.00	6,978.63	6,984.63	6,984.63	37.99	140.10	55.79	2,933.74	-1,372.03	1,661.75	1,490.92	170.83	9.727		
7,450.00	7,000.93	7,006.93	7,006.93	38.25	140.55	62.80	2,933.74	-1,372.03	1,626.00	1,454.98	171.03	9.507		
7,500.00	7,019.61	7,025.61	7,025.61	38.51	140.93	69.43	2,933.74	-1,372.03	1,590.62	1,419.50	171.13	9.295		
7,550.00	7,034.55	7,040.55	7,040.55	38.77	141.23	75.50	2,933.74	-1,372.03	1,556.05	1,384.90	171.15	9.092		
7,600.00	7,045.61	7,051.61	7,051.61	39.04	141.45	80.86	2,933.74	-1,372.03	1,522.73	1,351.62	171.11	8.899		
7,650.00	7,052.73	7,058.73	7,058.73	39.32	141.59	85.41	2,933.74	-1,372.03	1,491.08	1,320.06	171.03	8.718		
7,700.00	7,055.85	7,061.85	7,061.85	39.60	141.66	89.13	2,933.74	-1,372.03	1,461.53	1,290.60	170.92	8.551		
7,713.69	7,056.00	7,062.00	7,062.00	39.68	141.66	90.00	2,933.74	-1,372.03	1,453.85	1,282.96	170.90	8.507		
7,800.00	7,056.00	7,062.00	7,062.00	40.23	141.66	90.00	2,933.74	-1,372.03	1,407.91	1,237.01	170.90	8.238		
7,900.00	7,056.00	7,062.00	7,062.00	41.02	141.66	90.00	2,933.74	-1,372.03	1,359.60	1,188.20	171.40	7.932		
8,000.00	7,056.00	7,062.00	7,062.00	41.97	141.66	90.00	2,933.74	-1,372.03	1,317.12	1,144.61	172.50	7.635		
8,100.00	7,056.00	7,062.00	7,062.00	43.10	141.66	90.00	2,933.74	-1,372.03	1,281.05	1,106.82	174.23	7.353		
8,200.00	7,056.00	7,062.00	7,062.00	44.40	141.66	90.00	2,933.74	-1,372.03	1,251.95	1,075.42	176.53	7.092		
8,300.00	7,056.00	7,062.00	7,062.00	45.85	141.66	90.00	2,933.74	-1,372.03	1,230.32	1,051.00	179.32	6.861		
8,400.00	7,056.00	7,062.00	7,062.00	47.44	141.66	90.00	2,933.74	-1,372.03	1,216.54	1,034.09	182.45	6.668		
8,500.00	7,056.00	7,062.00	7,062.00	49.17	141.66	90.00	2,933.74	-1,372.03	1,210.89	1,025.12	185.77	6.518		
8,518.54	7,056.00	7,062.00	7,062.00	49.50	141.66	90.00	2,933.74	-1,372.03	1,210.75	1,024.35	186.40	6.495 CC, ES		
8,600.00	7,056.00	7,062.00	7,062.00	51.00	141.66	90.00	2,933.74	-1,372.03	1,213.49	1,024.35	189.14	6.416		
8,700.00	7,056.00	7,062.00	7,062.00	52.93	141.66	90.00	2,933.74	-1,372.03	1,224.27	1,031.87	192.41	6.363		
8,800.00	7,056.00	7,062.00	7,062.00	54.94	141.66	90.00	2,933.74	-1,372.03	1,243.04	1,047.55	195.49	6.359 SF		
8,900.00	7,056.00	7,062.00	7,062.00	57.02	141.66	90.00	2,933.74	-1,372.03	1,269.42	1,071.13	198.29	6.402		
9,000.00	7,056.00	7,062.00	7,062.00	59.16	141.66	90.00	2,933.74	-1,372.03	1,302.97	1,102.18	200.79	6.489		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN VERT KNESS 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,100.00	7,056.00	7,062.00	7,062.00	61.36	141.66	90.00	2,933.74	-1,372.03	1,343.14	1,140.18	202.95	6.618		
9,200.00	7,056.00	7,062.00	7,062.00	63.60	141.66	90.00	2,933.74	-1,372.03	1,389.36	1,184.56	204.80	6.784		
9,300.00	7,056.00	7,062.00	7,062.00	65.89	141.66	90.00	2,933.74	-1,372.03	1,441.04	1,234.70	206.35	6.984		
9,400.00	7,056.00	7,062.00	7,062.00	68.21	141.66	90.00	2,933.74	-1,372.03	1,497.63	1,290.01	207.62	7.213		
9,500.00	7,056.00	7,062.00	7,062.00	70.56	141.66	90.00	2,933.74	-1,372.03	1,558.59	1,349.93	208.66	7.470		
9,600.00	7,056.00	7,062.00	7,062.00	72.95	141.66	90.00	2,933.74	-1,372.03	1,623.42	1,413.93	209.49	7.749		
9,700.00	7,056.00	7,062.00	7,062.00	75.35	141.66	90.00	2,933.74	-1,372.03	1,691.68	1,481.54	210.14	8.050		
9,800.00	7,056.00	7,062.00	7,062.00	77.78	141.66	90.00	2,933.74	-1,372.03	1,762.97	1,552.32	210.65	8.369		
9,900.00	7,056.00	7,062.00	7,062.00	80.23	141.66	90.00	2,933.74	-1,372.03	1,836.94	1,625.90	211.04	8.704		
10,000.00	7,056.00	7,062.00	7,062.00	82.70	141.66	90.00	2,933.74	-1,372.03	1,913.28	1,701.95	211.33	9.053		
10,100.00	7,056.00	7,062.00	7,062.00	85.19	141.66	90.00	2,933.74	-1,372.03	1,991.72	1,780.18	211.54	9.415		
10,200.00	7,056.00	7,062.00	7,062.00	87.69	141.66	90.00	2,933.74	-1,372.03	2,072.01	1,860.33	211.68	9.788		
10,300.00	7,056.00	7,062.00	7,062.00	90.20	141.66	90.00	2,933.74	-1,372.03	2,153.96	1,942.19	211.77	10.171		
10,400.00	7,056.00	7,062.00	7,062.00	92.73	141.66	90.00	2,933.74	-1,372.03	2,237.37	2,025.56	211.81	10.563		
10,500.00	7,056.00	7,062.00	7,062.00	95.27	141.66	90.00	2,933.74	-1,372.03	2,322.09	2,110.27	211.82	10.962		
10,600.00	7,056.00	7,062.00	7,062.00	97.81	141.66	90.00	2,933.74	-1,372.03	2,407.99	2,196.18	211.81	11.369		
10,700.00	7,056.00	7,062.00	7,062.00	100.37	141.66	90.00	2,933.74	-1,372.03	2,494.94	2,283.17	211.77	11.781		
10,800.00	7,056.00	7,062.00	7,062.00	102.94	141.66	90.00	2,933.74	-1,372.03	2,582.83	2,371.12	211.71	12.200		
10,900.00	7,056.00	7,062.00	7,062.00	105.51	141.66	90.00	2,933.74	-1,372.03	2,671.57	2,459.93	211.64	12.623		
11,000.00	7,056.00	7,062.00	7,062.00	108.09	141.66	90.00	2,933.74	-1,372.03	2,761.08	2,549.52	211.56	13.051		
11,100.00	7,056.00	7,062.00	7,062.00	110.68	141.66	90.00	2,933.74	-1,372.03	2,851.29	2,639.82	211.47	13.483		
11,200.00	7,056.00	7,062.00	7,062.00	113.28	141.66	90.00	2,933.74	-1,372.03	2,942.14	2,730.76	211.38	13.919		
11,300.00	7,056.00	7,062.00	7,062.00	115.88	141.66	90.00	2,933.74	-1,372.03	3,033.56	2,822.27	211.28	14.358		
11,400.00	7,056.00	7,062.00	7,062.00	118.49	141.66	90.00	2,933.74	-1,372.03	3,125.50	2,914.32	211.18	14.800		
11,500.00	7,056.00	7,062.00	7,062.00	121.10	141.66	90.00	2,933.74	-1,372.03	3,217.93	3,006.84	211.08	15.245		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Distance			Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	27.72	58.29	30.63	65.85						
100.00	100.00	100.00	100.00	0.14	0.14	27.72	58.29	30.63	65.85	65.56	0.29	229.617			
200.00	200.00	200.00	200.00	0.50	0.50	27.72	58.29	30.63	65.85	64.85	1.00	65.605			
300.00	300.00	300.00	300.00	0.86	0.86	27.72	58.29	30.63	65.85	64.13	1.72	38.269 CC			
400.00	400.00	399.13	399.11	1.22	1.21	29.10	58.10	32.33	66.50	64.07	2.43	27.400 ES			
500.00	500.00	498.02	497.87	1.58	1.56	33.05	57.54	37.43	68.67	65.54	3.13	21.914			
600.00	600.00	596.89	596.38	1.94	1.92	38.92	56.61	45.72	72.86	69.01	3.85	18.925			
700.00	700.00	696.47	695.53	2.29	2.29	44.60	55.60	54.83	78.22	73.64	4.57	17.104			
800.00	800.00	796.04	794.68	2.65	2.67	49.51	54.59	63.94	84.24	78.95	5.30	15.905			
900.00	900.00	895.62	893.83	3.01	3.05	53.75	53.57	73.06	90.80	84.78	6.02	15.085			
1,000.00	1,000.00	995.19	992.99	3.37	3.43	57.40	52.56	82.17	97.79	91.05	6.74	14.507			
1,100.00	1,100.00	1,094.77	1,092.14	3.73	3.82	60.55	51.54	91.28	105.12	97.66	7.46	14.088			
1,200.00	1,200.00	1,194.34	1,191.29	4.09	4.20	63.28	50.53	100.39	112.73	104.55	8.18	13.778			
1,300.00	1,300.00	1,293.92	1,290.44	4.45	4.59	65.67	49.52	109.50	120.56	111.66	8.90	13.544			
1,400.00	1,400.00	1,393.49	1,389.60	4.80	4.97	67.76	48.50	118.61	128.57	118.95	9.62	13.364			
1,500.00	1,500.00	1,493.07	1,488.75	5.16	5.36	69.60	47.49	127.73	136.73	126.39	10.34	13.225			
1,600.00	1,600.00	1,592.64	1,587.90	5.52	5.75	71.24	46.48	136.84	145.02	133.96	11.06	13.115			
1,700.00	1,700.00	1,692.22	1,687.05	5.88	6.13	72.70	45.46	145.95	153.41	141.64	11.78	13.027			
1,800.00	1,800.00	1,791.79	1,786.20	6.24	6.52	74.01	44.45	155.06	161.90	149.40	12.50	12.957			
1,900.00	1,900.00	1,891.37	1,885.36	6.60	6.91	75.18	43.43	164.17	170.45	157.24	13.21	12.900			
2,000.00	2,000.00	1,990.94	1,984.51	6.95	7.30	76.24	42.42	173.29	179.07	165.14	13.93	12.853			
2,100.00	2,100.00	2,090.52	2,083.66	7.31	7.68	77.21	41.41	182.40	187.75	173.10	14.65	12.815			
2,200.00	2,200.00	2,190.09	2,182.81	7.67	8.07	78.09	40.39	191.51	196.48	181.11	15.37	12.784			
2,300.00	2,300.00	2,289.67	2,281.97	8.03	8.46	78.89	39.38	200.62	205.24	189.16	16.09	12.758			
2,400.00	2,399.98	2,389.21	2,381.08	8.39	8.85	79.24	38.37	209.73	213.72	196.92	16.80	12.719			
2,500.00	2,499.84	2,488.59	2,480.05	8.75	9.24	81.08	37.35	218.82	221.73	204.21	17.51	12.662			
2,600.00	2,599.45	2,587.71	2,578.74	9.10	9.62	83.63	36.35	227.89	229.58	211.36	18.22	12.603			
2,700.00	2,698.70	2,686.42	2,677.04	9.46	10.01	86.80	35.34	236.93	237.70	218.78	18.92	12.565			
2,800.00	2,797.47	2,784.63	2,774.82	9.82	10.39	90.52	34.34	245.91	246.61	226.98	19.62	12.566			
2,900.00	2,895.62	2,882.19	2,871.97	10.20	10.77	94.66	33.35	254.84	256.86	236.52	20.34	12.628			
3,000.00	2,993.06	2,979.01	2,968.38	10.58	11.15	99.09	32.36	263.70	269.06	247.99	21.07	12.770			
3,100.00	3,089.64	3,074.95	3,063.91	10.98	11.53	103.69	31.38	272.48	283.76	261.94	21.82	13.007			
3,200.00	3,185.27	3,169.90	3,158.46	11.40	11.90	108.31	30.42	281.17	301.48	278.89	22.58	13.350			
3,300.00	3,279.82	3,263.75	3,251.91	11.85	12.26	112.84	29.46	289.76	322.61	299.25	23.36	13.808			
3,400.00	3,373.17	3,356.38	3,344.15	12.32	12.62	117.16	28.52	298.23	347.46	323.30	24.16	14.383			
3,425.78	3,397.02	3,380.05	3,367.71	12.45	12.72	118.23	28.28	300.40	354.49	330.13	24.36	14.550			
3,500.00	3,465.59	3,448.07	3,435.44	12.83	12.98	121.48	27.59	306.62	375.72	350.77	24.95	15.056			
3,600.00	3,557.97	3,539.70	3,526.69	13.35	13.34	125.36	26.65	315.01	406.01	380.26	25.75	15.768			
3,700.00	3,650.35	3,631.34	3,617.94	13.89	13.70	128.72	25.72	323.39	437.87	411.33	26.54	16.498			
3,800.00	3,742.72	3,722.98	3,709.19	14.45	14.06	131.64	24.79	331.78	470.98	443.65	27.33	17.234			
3,900.00	3,835.10	3,814.62	3,800.44	15.03	14.41	134.19	23.85	340.17	505.09	476.98	28.11	17.967			
4,000.00	3,927.48	3,906.25	3,891.68	15.61	14.77	136.43	22.92	348.55	540.02	511.13	28.89	18.691			
4,100.00	4,019.86	3,997.89	3,982.93	16.21	15.13	138.41	21.99	356.94	575.61	545.94	29.67	19.401			
4,200.00	4,112.23	4,089.53	4,074.18	16.82	15.49	140.16	21.06	365.32	611.75	581.31	30.44	20.094			
4,300.00	4,204.61	4,181.17	4,165.43	17.44	15.85	141.72	20.12	373.71	648.35	617.13	31.22	20.769			
4,400.00	4,296.99	4,272.80	4,256.68	18.06	16.20	143.12	19.19	382.09	685.33	653.34	31.99	21.424			
4,500.00	4,389.37	4,364.44	4,347.92	18.69	16.56	144.38	18.26	390.48	722.64	689.87	32.76	22.058			
4,600.00	4,481.74	4,456.08	4,439.17	19.33	16.92	145.52	17.32	398.86	760.22	726.69	33.53	22.672			
4,700.00	4,574.12	4,547.71	4,530.42	19.98	17.28	146.55	16.39	407.25	798.04	763.74	34.30	23.266			
4,800.00	4,666.50	4,639.35	4,621.67	20.63	17.64	147.49	15.46	415.63	836.07	801.00	35.07	23.839			
4,900.00	4,758.88	4,730.99	4,712.92	21.29	17.99	148.35	14.53	424.02	874.28	838.44	35.84	24.393			
5,000.00	4,851.25	4,822.63	4,804.16	21.95	18.35	149.14	13.59	432.41	912.64	876.03	36.61	24.928			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD										Rule Assigned:			Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,943.63	4,914.26	4,895.41	22.61	18.71	149.86	12.66	440.79	951.14	913.76	37.38	25.444		
5,200.00	5,036.01	5,005.90	4,986.66	23.28	19.07	150.53	11.73	449.18	989.77	951.61	38.15	25.942		
5,300.00	5,128.39	5,097.54	5,077.91	23.95	19.43	151.15	10.79	457.56	1,028.50	989.57	38.92	26.423		
5,400.00	5,220.76	5,189.18	5,169.16	24.62	19.78	151.73	9.86	465.95	1,067.32	1,027.63	39.70	26.888		
5,500.00	5,313.14	5,280.81	5,260.40	25.30	20.14	152.26	8.93	474.33	1,106.24	1,065.77	40.47	27.337		
5,600.00	5,405.52	5,372.45	5,351.65	25.98	20.50	152.76	8.00	482.72	1,145.23	1,103.99	41.24	27.770		
5,700.00	5,497.90	5,464.09	5,442.90	26.67	20.86	153.23	7.06	491.10	1,184.29	1,142.27	42.01	28.189		
5,800.00	5,590.28	5,555.72	5,534.15	27.35	21.22	153.67	6.13	499.49	1,223.41	1,180.62	42.79	28.594		
5,900.00	5,682.65	5,647.36	5,625.40	28.04	21.57	154.08	5.20	507.88	1,262.59	1,219.03	43.56	28.985		
6,000.00	5,775.03	5,739.00	5,716.64	28.73	21.93	154.46	4.26	516.26	1,301.82	1,257.48	44.33	29.364		
6,100.00	5,867.41	5,830.64	5,807.89	29.42	22.29	154.83	3.33	524.65	1,341.10	1,295.99	45.11	29.730		
6,200.00	5,959.79	5,922.27	5,899.14	30.11	22.65	155.17	2.40	533.03	1,380.42	1,334.53	45.88	30.085		
6,300.00	6,052.16	6,013.91	5,990.39	30.80	23.01	155.49	1.46	541.42	1,419.78	1,373.12	46.66	30.428		
6,400.00	6,144.54	6,105.55	6,081.64	31.50	23.36	155.80	0.53	549.80	1,459.18	1,411.74	47.44	30.761		
6,500.00	6,236.92	6,197.19	6,172.88	32.20	23.72	156.09	-0.40	558.19	1,498.61	1,450.40	48.21	31.083		
6,600.00	6,329.30	6,288.82	6,264.13	32.90	24.08	156.36	-1.33	566.57	1,538.07	1,489.08	48.99	31.395		
6,700.00	6,421.67	6,380.46	6,355.38	33.60	24.44	156.63	-2.27	574.96	1,577.57	1,527.80	49.77	31.698		
6,800.00	6,514.05	6,472.10	6,446.63	34.30	24.80	156.88	-3.20	583.34	1,617.08	1,566.54	50.55	31.991		
6,809.17	6,522.52	6,480.50	6,454.99	34.36	24.83	156.90	-3.29	584.11	1,620.71	1,570.09	50.62	32.018		
6,850.00	6,560.22	6,517.76	6,492.10	34.65	24.98	168.42	-3.66	587.52	1,637.34	1,586.40	50.93	32.146		
6,900.00	6,606.13	7,300.00	7,113.12	35.00	26.84	-166.02	-13.77	216.70	1,655.23	1,603.43	51.80	31.955		
6,950.00	6,651.44	7,505.40	7,148.00	35.34	28.30	-149.18	-15.92	15.41	1,659.19	1,605.73	53.45	31.041		
7,000.00	6,695.79	7,519.29	7,148.00	35.67	28.44	-140.22	-16.04	1.52	1,664.14	1,610.13	54.01	30.810		
7,050.00	6,738.87	7,537.30	7,148.00	36.00	28.62	-132.60	-16.20	-16.50	1,670.26	1,615.68	54.57	30.605		
7,100.00	6,780.32	7,559.32	7,148.00	36.31	28.84	-126.11	-16.39	-38.51	1,677.35	1,622.22	55.14	30.421		
7,150.00	6,819.85	7,585.16	7,148.00	36.61	29.10	-120.51	-16.62	-64.35	1,685.20	1,629.50	55.71	30.252		
7,200.00	6,857.14	7,614.63	7,148.00	36.91	29.43	-115.62	-16.88	-93.81	1,693.57	1,637.25	56.32	30.071		
7,250.00	6,891.92	7,647.50	7,148.00	37.19	29.83	-111.33	-17.16	-126.69	1,702.19	1,645.20	56.99	29.869		
7,300.00	6,923.92	7,683.54	7,148.00	37.46	30.26	-107.56	-17.48	-162.72	1,710.82	1,653.13	57.70	29.652		
7,350.00	6,952.90	7,722.45	7,148.00	37.73	30.78	-104.24	-17.82	-201.64	1,719.21	1,660.72	58.49	29.393		
7,400.00	6,978.63	7,763.95	7,148.00	37.99	31.36	-101.37	-18.18	-243.14	1,727.09	1,667.72	59.37	29.089		
7,450.00	7,000.93	7,807.72	7,148.00	38.25	31.99	-98.92	-18.57	-286.91	1,734.26	1,673.93	60.33	28.746		
7,500.00	7,019.61	7,853.43	7,148.00	38.51	32.70	-96.89	-18.97	-332.61	1,740.51	1,679.09	61.42	28.339		
7,550.00	7,034.55	7,900.73	7,148.00	38.77	33.44	-95.29	-19.38	-379.91	1,745.65	1,683.07	62.58	27.896		
7,600.00	7,045.61	7,949.26	7,148.00	39.04	34.27	-94.11	-19.81	-428.43	1,749.55	1,685.68	63.87	27.392		
7,650.00	7,052.73	7,998.64	7,148.00	39.32	35.11	-93.35	-20.24	-477.82	1,752.10	1,686.87	65.23	26.860		
7,700.00	7,055.85	8,048.51	7,148.00	39.60	36.02	-93.02	-20.68	-527.68	1,753.23	1,686.52	66.70	26.284		
7,713.69	7,056.00	8,062.20	7,148.00	39.68	36.27	-93.01	-20.80	-541.37	1,753.28	1,686.17	67.12	26.123		
7,800.00	7,056.00	8,148.51	7,148.00	40.23	37.90	-93.01	-21.56	-627.68	1,753.29	1,683.45	69.84	25.103		
7,900.00	7,056.00	8,248.51	7,148.00	41.02	39.88	-93.01	-22.43	-727.68	1,753.30	1,680.05	73.25	23.935		
8,000.00	7,056.00	8,348.51	7,148.00	41.97	41.94	-93.01	-23.31	-827.67	1,753.32	1,676.41	76.90	22.800		
8,100.00	7,056.00	8,448.51	7,148.00	43.10	44.08	-93.01	-24.19	-927.67	1,753.33	1,672.57	80.75	21.712		
8,200.00	7,056.00	8,548.51	7,148.00	44.40	46.27	-93.01	-25.07	-1,027.66	1,753.34	1,668.56	84.78	20.681		
8,300.00	7,056.00	8,648.51	7,148.00	45.85	48.52	-93.01	-25.94	-1,127.66	1,753.35	1,664.39	88.96	19.709		
8,400.00	7,056.00	8,748.51	7,148.00	47.44	50.81	-93.01	-26.82	-1,227.66	1,753.36	1,660.09	93.28	18.798		
8,500.00	7,056.00	8,848.51	7,148.00	49.17	53.15	-93.01	-27.70	-1,327.65	1,753.37	1,655.67	97.70	17.946		
8,600.00	7,056.00	8,948.51	7,148.00	51.00	55.52	-93.01	-28.57	-1,427.65	1,753.38	1,651.15	102.23	17.151		
8,700.00	7,056.00	9,048.51	7,148.00	52.93	57.92	-93.01	-29.45	-1,527.64	1,753.39	1,646.55	106.84	16.411		
8,800.00	7,056.00	9,148.51	7,148.00	54.94	60.35	-93.01	-30.33	-1,627.64	1,753.41	1,641.87	111.53	15.721		
8,900.00	7,056.00	9,248.51	7,148.00	57.02	62.80	-93.01	-31.21	-1,727.64	1,753.42	1,637.13	116.29	15.078		
9,000.00	7,056.00	9,348.51	7,148.00	59.16	65.27	-93.01	-32.08	-1,827.63	1,753.43	1,632.33	121.10	14.479		
9,100.00	7,056.00	9,448.51	7,148.00	61.36	67.77	-93.01	-32.96	-1,927.63	1,753.44	1,627.47	125.97	13.920		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD										Rule Assigned:		Offset Well Error: 0.00 usft			
Reference				Offset			Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,200.00	7,056.00	9,548.51	7,148.00	63.60	70.28	-93.01	-33.84	-2,027.63	1,753.45	1,622.57	130.88	13.397			
9,300.00	7,056.00	9,648.51	7,148.00	65.89	72.80	-93.01	-34.71	-2,127.62	1,753.46	1,617.63	135.83	12.909			
9,400.00	7,056.00	9,748.51	7,148.00	68.21	75.34	-93.01	-35.59	-2,227.62	1,753.47	1,612.65	140.82	12.452			
9,500.00	7,056.00	9,848.51	7,148.00	70.56	77.89	-93.01	-36.47	-2,327.61	1,753.48	1,607.64	145.84	12.023			
9,600.00	7,056.00	9,948.51	7,148.00	72.95	80.45	-93.01	-37.34	-2,427.61	1,753.50	1,602.60	150.89	11.621			
9,700.00	7,056.00	10,048.51	7,148.00	75.35	83.03	-93.01	-38.22	-2,527.61	1,753.51	1,597.54	155.97	11.243			
9,800.00	7,056.00	10,148.51	7,148.00	77.78	85.61	-93.01	-39.10	-2,627.60	1,753.52	1,592.45	161.07	10.887			
9,900.00	7,056.00	10,248.51	7,148.00	80.23	88.20	-93.01	-39.98	-2,727.60	1,753.53	1,587.34	166.19	10.551			
10,000.00	7,056.00	10,348.51	7,148.00	82.70	90.80	-93.01	-40.85	-2,827.59	1,753.54	1,582.21	171.33	10.235			
10,100.00	7,056.00	10,448.51	7,148.00	85.19	93.40	-93.01	-41.73	-2,927.59	1,753.55	1,577.06	176.49	9.936			
10,200.00	7,056.00	10,548.51	7,148.00	87.69	96.01	-93.01	-42.61	-3,027.59	1,753.56	1,571.89	181.67	9.653			
10,300.00	7,056.00	10,648.51	7,148.00	90.20	98.63	-93.01	-43.48	-3,127.58	1,753.57	1,566.71	186.86	9.384			
10,400.00	7,056.00	10,748.51	7,148.00	92.73	101.25	-93.01	-44.36	-3,227.58	1,753.59	1,561.52	192.07	9.130			
10,500.00	7,056.00	10,848.51	7,148.00	95.27	103.88	-93.01	-45.24	-3,327.58	1,753.60	1,556.31	197.28	8.889			
10,600.00	7,056.00	10,948.51	7,148.00	97.81	106.51	-93.01	-46.12	-3,427.57	1,753.61	1,551.10	202.51	8.659			
10,700.00	7,056.00	11,048.51	7,148.00	100.37	109.15	-93.01	-46.99	-3,527.57	1,753.62	1,545.87	207.75	8.441			
10,800.00	7,056.00	11,148.51	7,148.00	102.94	111.79	-93.01	-47.87	-3,627.56	1,753.63	1,540.63	213.00	8.233			
10,900.00	7,056.00	11,248.51	7,148.00	105.51	114.44	-93.01	-48.75	-3,727.56	1,753.64	1,535.38	218.26	8.035			
11,000.00	7,056.00	11,348.51	7,148.00	108.09	117.08	-93.01	-49.62	-3,827.56	1,753.65	1,530.13	223.53	7.845			
11,100.00	7,056.00	11,448.51	7,148.00	110.68	119.74	-93.01	-50.50	-3,927.55	1,753.66	1,524.86	228.80	7.664			
11,200.00	7,056.00	11,548.51	7,148.00	113.28	122.39	-93.01	-51.38	-4,027.55	1,753.68	1,519.59	234.09	7.492			
11,300.00	7,056.00	11,648.51	7,148.00	115.88	125.05	-93.01	-52.25	-4,127.54	1,753.69	1,514.31	239.38	7.326			
11,400.00	7,056.00	11,748.51	7,148.00	118.49	127.71	-93.01	-53.13	-4,227.54	1,753.70	1,509.02	244.67	7.167			
11,500.00	7,056.00	11,848.51	7,148.00	121.10	130.37	-93.01	-54.01	-4,327.54	1,753.71	1,503.73	249.98	7.015			
11,600.00	7,056.00	11,948.51	7,148.00	123.72	133.04	-93.01	-54.89	-4,427.53	1,753.72	1,498.44	255.28	6.870			
11,700.00	7,056.00	12,048.51	7,148.00	126.34	135.70	-93.01	-55.76	-4,527.53	1,753.73	1,493.13	260.60	6.730			
11,800.00	7,056.00	12,148.51	7,148.00	128.97	138.37	-93.01	-56.64	-4,627.53	1,753.74	1,487.83	265.92	6.595			
11,900.00	7,056.00	12,248.51	7,148.00	131.60	141.04	-93.01	-57.52	-4,727.52	1,753.75	1,482.51	271.24	6.466			
12,000.00	7,056.00	12,348.51	7,148.00	134.23	143.72	-93.01	-58.39	-4,827.52	1,753.77	1,477.20	276.57	6.341			
12,100.00	7,056.00	12,448.51	7,148.00	136.87	146.39	-93.01	-59.27	-4,927.51	1,753.78	1,471.88	281.90	6.221			
12,200.00	7,056.00	12,548.51	7,148.00	139.51	149.07	-93.01	-60.15	-5,027.51	1,753.79	1,466.55	287.24	6.106			
12,300.00	7,056.00	12,648.51	7,148.00	142.15	151.75	-93.01	-61.03	-5,127.51	1,753.80	1,461.22	292.58	5.994			
12,400.00	7,056.00	12,748.51	7,148.00	144.80	154.43	-93.01	-61.90	-5,227.50	1,753.81	1,455.89	297.92	5.887			
12,500.00	7,056.00	12,848.51	7,148.00	147.45	157.11	-93.01	-62.78	-5,327.50	1,753.82	1,450.56	303.27	5.783			
12,600.00	7,056.00	12,948.51	7,148.00	150.10	159.79	-93.01	-63.66	-5,427.49	1,753.83	1,445.22	308.62	5.683			
12,700.00	7,056.00	13,048.51	7,148.00	152.75	162.48	-93.01	-64.53	-5,527.49	1,753.84	1,439.88	313.97	5.586			
12,800.00	7,056.00	13,148.51	7,148.00	155.41	165.16	-93.01	-65.41	-5,627.49	1,753.86	1,434.53	319.32	5.492			
12,900.00	7,056.00	13,248.51	7,148.00	158.07	167.85	-93.01	-66.29	-5,727.48	1,753.87	1,429.18	324.68	5.402			
13,000.00	7,056.00	13,348.51	7,148.00	160.73	170.54	-93.01	-67.16	-5,827.48	1,753.88	1,423.83	330.04	5.314			
13,100.00	7,056.00	13,448.51	7,148.00	163.39	173.22	-93.01	-68.04	-5,927.48	1,753.89	1,418.48	335.41	5.229			
13,200.00	7,056.00	13,548.51	7,148.00	166.06	175.91	-93.01	-68.92	-6,027.47	1,753.90	1,413.13	340.77	5.147			
13,300.00	7,056.00	13,648.51	7,148.00	168.73	178.61	-93.01	-69.80	-6,127.47	1,753.91	1,407.77	346.14	5.067			
13,400.00	7,056.00	13,748.51	7,148.00	171.40	181.30	-93.01	-70.67	-6,227.46	1,753.92	1,402.41	351.51	4.990			
13,500.00	7,056.00	13,848.51	7,148.00	174.07	183.99	-93.01	-71.55	-6,327.46	1,753.94	1,397.05	356.88	4.915			
13,600.00	7,056.00	13,948.51	7,148.00	176.74	186.68	-93.01	-72.43	-6,427.46	1,753.95	1,391.69	362.26	4.842			
13,700.00	7,056.00	14,048.51	7,148.00	179.41	189.38	-93.01	-73.30	-6,527.45	1,753.96	1,386.32	367.63	4.771			
13,800.00	7,056.00	14,148.51	7,148.00	182.09	192.07	-93.01	-74.18	-6,627.45	1,753.97	1,380.96	373.01	4.702			
13,900.00	7,056.00	14,248.51	7,148.00	184.76	194.77	-93.01	-75.06	-6,727.44	1,753.98	1,375.59	378.39	4.635			
14,000.00	7,056.00	14,348.51	7,148.00	187.44	197.46	-93.01	-75.94	-6,827.44	1,753.99	1,370.22	383.77	4.570			
14,100.00	7,056.00	14,448.51	7,148.00	190.12	200.16	-93.01	-76.81	-6,927.44	1,754.00	1,364.85	389.15	4.507			
14,200.00	7,056.00	14,548.51	7,148.00	192.80	202.86	-93.01	-77.69	-7,027.43	1,754.01	1,359.47	394.54	4.446			
14,300.00	7,056.00	14,648.51	7,148.00	195.48	205.56	-93.01	-78.57	-7,127.43	1,754.03	1,354.10	399.92	4.386			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,400.00	7,056.00	14,748.51	7,148.00	198.16	208.26	-93.01	-79.44	-7,227.43	1,754.04	1,348.72	405.31	4.328	
14,500.00	7,056.00	14,848.51	7,148.00	200.85	210.95	-93.01	-80.32	-7,327.42	1,754.05	1,343.35	410.70	4.271	
14,600.00	7,056.00	14,948.51	7,148.00	203.53	213.65	-93.01	-81.20	-7,427.42	1,754.06	1,337.97	416.09	4.216	
14,700.00	7,056.00	15,048.51	7,148.00	206.22	216.36	-93.01	-82.07	-7,527.41	1,754.07	1,332.59	421.48	4.162	
14,800.00	7,056.00	15,148.51	7,148.00	208.91	219.06	-93.01	-82.95	-7,627.41	1,754.08	1,327.21	426.87	4.109	
14,900.00	7,056.00	15,248.51	7,148.00	211.59	221.76	-93.01	-83.83	-7,727.41	1,754.09	1,321.83	432.27	4.058	
15,000.00	7,056.00	15,348.51	7,148.00	214.28	224.46	-93.01	-84.71	-7,827.40	1,754.10	1,316.44	437.66	4.008	
15,100.00	7,056.00	15,448.51	7,148.00	216.97	227.16	-93.01	-85.58	-7,927.40	1,754.12	1,311.06	443.05	3.959	
15,200.00	7,056.00	15,548.51	7,148.00	219.66	229.87	-93.01	-86.46	-8,027.39	1,754.13	1,305.68	448.45	3.912	
15,300.00	7,056.00	15,648.51	7,148.00	222.35	232.57	-93.01	-87.34	-8,127.39	1,754.14	1,300.29	453.85	3.865	
15,400.00	7,056.00	15,748.51	7,148.00	225.04	235.27	-93.01	-88.21	-8,227.39	1,754.15	1,294.90	459.25	3.820	
15,496.19	7,056.00	15,844.70	7,148.00	227.63	237.87	-93.01	-89.06	-8,323.57	1,754.16	1,289.72	464.44	3.777 SF	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-11H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program:		0-OWSG (Rev2) MWD		Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Rule Assigned:		Offset Well Error:	0.00 usft
Reference	Offset	Reference	Offset	Reference	Offset		+N/-S	+E/-W	Between	Between			Separation	Factor	Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface			Centres	Ellipses						
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)				
0.00	0.00	0.00	0.00	0.00	0.00	37.39	40.08	30.63	50.44	50.44	0.29	175.889				
100.00	100.00	100.00	100.00	0.14	0.14	37.39	40.08	30.63	50.44	50.15	1.00	50.254				
200.00	200.00	200.00	200.00	0.50	0.50	37.39	40.08	30.63	50.44	49.44	1.72	29.315				
300.00	300.00	300.00	300.00	0.86	0.86	37.39	40.08	30.63	50.44	48.72	2.44	20.693				
400.00	400.00	400.00	400.00	1.22	1.22	37.39	40.08	30.63	50.44	48.00	3.15	15.990				
500.00	500.00	500.00	500.00	1.58	1.58	37.39	40.08	30.63	50.44	47.29	3.87	13.029				
600.00	600.00	600.00	600.00	1.94	1.94	37.39	40.08	30.63	50.44	46.57	4.59	10.993				
700.00	700.00	700.00	700.00	2.29	2.29	37.39	40.08	30.63	50.44	45.85	5.29	9.345				
800.00	800.00	800.98	800.96	2.65	2.64	39.07	38.38	31.16	49.45	44.15	5.98	7.811				
900.00	900.00	901.72	901.55	3.01	2.98	44.52	33.30	32.75	46.73	40.75	6.68	6.519				
1,000.00	1,000.00	1,001.62	1,001.14	3.37	3.32	53.71	25.78	35.11	43.57	36.89	7.39	5.635				
1,100.00	1,100.00	1,101.29	1,100.49	3.73	3.66	64.20	18.13	37.50	41.66	34.26	7.94	5.192 CC				
1,176.04	1,176.04	1,177.09	1,176.04	4.00	3.94	72.61	12.31	39.32	41.21	33.27	8.11	5.088 ES				
1,200.00	1,200.00	1,200.97	1,199.85	4.09	4.02	75.28	10.48	39.90	41.25	33.14	8.82	4.805				
1,300.00	1,300.00	1,300.65	1,299.20	4.45	4.38	86.17	2.83	42.29	42.39	33.57	9.54	4.714 SF				
1,400.00	1,400.00	1,400.32	1,398.55	4.80	4.75	96.15	-4.81	44.69	44.97	35.43	10.25	4.756				
1,500.00	1,500.00	1,500.00	1,497.91	5.16	5.12	104.82	-12.46	47.08	48.75	38.50	10.96	4.879				
1,600.00	1,600.00	1,599.67	1,597.26	5.52	5.49	112.12	-20.11	49.48	53.48	42.51	11.67	5.049				
1,700.00	1,700.00	1,699.35	1,696.61	5.88	5.86	118.15	-27.75	51.87	58.93	47.26	12.38	5.244				
1,800.00	1,800.00	1,799.03	1,795.97	6.24	6.23	123.12	-35.40	54.26	64.92	52.54	13.09	5.448				
1,900.00	1,900.00	1,898.70	1,895.32	6.60	6.61	127.23	-43.05	56.66	71.31	58.22	13.80	5.653				
2,000.00	2,000.00	1,998.38	1,994.67	6.95	6.98	130.64	-50.70	59.05	78.01	64.21	14.51	5.854				
2,100.00	2,100.00	2,098.06	2,094.03	7.31	7.36	133.51	-58.34	61.45	84.94	70.43	15.22	6.048				
2,200.00	2,200.00	2,197.73	2,193.38	7.67	7.74	135.95	-65.99	63.84	92.06	76.83	15.93	6.232				
2,300.00	2,300.00	2,297.41	2,292.74	8.03	8.12	138.03	-73.64	66.24	99.31	83.38	16.64	6.488				
2,400.00	2,399.98	2,396.93	2,391.94	8.39	8.49	139.63	-81.27	68.63	108.00	91.35	17.35	6.893				
2,500.00	2,499.84	2,496.07	2,490.75	8.75	8.87	142.56	-88.88	71.01	119.59	102.24	18.05	7.440				
2,600.00	2,599.45	2,594.69	2,589.06	9.10	9.25	145.77	-96.45	73.38	134.31	116.26	18.75	8.124				
2,700.00	2,698.70	2,692.69	2,686.74	9.46	9.62	148.98	-103.96	75.73	152.35	133.60	19.45	8.937				
2,800.00	2,797.47	2,789.94	2,783.67	9.82	9.99	151.99	-111.42	78.07	173.82	154.37	20.14	9.867				
2,900.00	2,895.62	2,886.32	2,879.74	10.20	10.36	154.72	-118.82	80.39	198.76	178.62	20.84	10.904				
3,000.00	2,993.06	2,981.72	2,974.83	10.58	10.73	157.13	-126.14	82.68	227.20	206.36	21.52	12.037				
3,100.00	3,089.64	3,076.01	3,068.82	10.98	11.09	159.23	-133.37	84.94	259.09	237.57	22.21	13.258				
3,200.00	3,185.27	3,169.10	3,161.60	11.40	11.44	161.04	-140.51	87.18	294.40	272.20	22.88	14.556				
3,300.00	3,279.82	3,260.85	3,253.06	11.85	11.79	162.60	-147.55	89.38	333.07	310.19	23.55	15.914				
3,400.00	3,373.17	3,351.16	3,343.08	12.32	12.14	163.94	-154.48	91.55	375.04	351.49	24.22	17.318				
3,425.78	3,397.02	3,374.19	3,366.03	12.45	12.23	164.25	-156.25	92.11	386.39	362.66	24.88	18.650				
3,500.00	3,465.59	3,440.36	3,431.99	12.83	12.48	165.25	-161.33	93.70	419.41	395.19	25.55	19.914				
3,600.00	3,557.97	3,529.52	3,520.86	13.35	12.82	166.37	-168.17	95.84	464.04	439.16	26.22	21.114				
3,700.00	3,650.35	3,618.67	3,609.72	13.89	13.17	167.29	-175.00	97.98	508.79	483.24	26.90	22.254				
3,800.00	3,742.72	3,707.82	3,698.58	14.45	13.51	168.07	-181.84	100.12	553.63	527.41	27.57	23.338				
3,900.00	3,835.10	3,796.97	3,787.45	15.03	13.85	168.73	-188.68	102.26	598.54	571.64	28.25	24.369				
4,000.00	3,927.48	3,886.12	3,876.31	15.61	14.19	169.30	-195.52	104.41	643.50	615.92	28.94	25.350				
4,100.00	4,019.86	3,975.28	3,965.17	16.21	14.54	169.79	-202.36	106.55	688.50	660.25	29.62	26.285				
4,200.00	4,112.23	4,064.43	4,054.04	16.82	14.88	170.22	-209.20	108.69	733.55	704.61	30.31	27.176				
4,300.00	4,204.61	4,153.58	4,142.90	17.44	15.22	170.61	-216.04	110.83	778.62	749.00	31.00	28.026				
4,400.00	4,296.99	4,242.73	4,231.76	18.06	15.56	170.95	-222.88	112.97	823.71	793.40	31.69	28.837				
4,500.00	4,389.37	4,331.88	4,320.63	18.69	15.91	171.26	-229.72	115.12	868.83	837.83	32.39	29.613				
4,600.00	4,481.74	4,421.04	4,409.49	19.33	16.25	171.53	-236.56	117.26	913.97	882.27	33.08	30.355				
4,700.00	4,574.12	4,510.19	4,498.35	19.98	16.59	171.78	-243.40	119.40	959.12	926.73	33.78	31.065				
4,800.00	4,666.50	4,599.34	4,587.22	20.63	16.93	172.01	-250.24	121.54	1,004.28	971.20						
4,900.00	4,758.88	4,688.49	4,676.08	21.29	17.28	172.22	-257.08	123.68	1,049.46	1,015.68						

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-11H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft				
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft				
Reference				Offset			Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
5,000.00	4,851.25	4,777.64	4,764.94	21.95	17.62	172.41	-263.92	125.82	1,094.64	1,060.16	34.48	31.745						
5,100.00	4,943.63	4,866.80	4,853.81	22.61	17.96	172.59	-270.76	127.97	1,139.84	1,104.65	35.18	32.396						
5,200.00	5,036.01	4,955.95	4,942.67	23.28	18.31	172.75	-277.60	130.11	1,185.04	1,149.15	35.89	33.021						
5,300.00	5,128.39	5,045.10	5,031.53	23.95	18.65	172.90	-284.44	132.25	1,230.25	1,193.66	36.59	33.621						
5,400.00	5,220.76	5,134.25	5,120.40	24.62	18.99	173.04	-291.28	134.39	1,275.47	1,238.17	37.30	34.197						
5,500.00	5,313.14	5,223.40	5,209.26	25.30	19.34	173.17	-298.12	136.53	1,320.69	1,282.68	38.00	34.751						
5,600.00	5,405.52	5,312.56	5,298.12	25.98	19.68	173.29	-304.96	138.68	1,365.92	1,327.20	38.71	35.283						
5,700.00	5,497.90	5,401.71	5,386.99	26.67	20.02	173.41	-311.80	140.82	1,411.15	1,371.72	39.42	35.796						
5,800.00	5,590.28	5,490.86	5,475.85	27.35	20.37	173.51	-318.64	142.96	1,456.38	1,416.25	40.13	36.289						
5,900.00	5,682.65	5,580.01	5,564.71	28.04	20.71	173.61	-325.48	145.10	1,501.62	1,460.78	40.84	36.764						
6,000.00	5,775.03	5,669.16	5,653.58	28.73	21.05	173.71	-332.32	147.24	1,546.86	1,505.31	41.56	37.222						
6,100.00	5,867.41	5,758.31	5,742.44	29.42	21.40	173.80	-339.16	149.38	1,592.11	1,549.84	42.27	37.664						
6,200.00	5,959.79	5,847.47	5,831.30	30.11	21.74	173.88	-346.00	151.53	1,637.36	1,594.37	42.99	38.091						
6,300.00	6,052.16	5,936.62	5,920.17	30.80	22.08	173.96	-352.84	153.67	1,682.61	1,638.91	43.70	38.503						
6,400.00	6,144.54	6,025.77	6,009.03	31.50	22.43	174.04	-359.68	155.81	1,727.86	1,683.45	44.42	38.900						
6,500.00	6,236.92	6,114.92	6,097.89	32.20	22.77	174.11	-366.52	157.95	1,773.12	1,727.99	45.14	39.285						
6,600.00	6,329.30	6,204.07	6,186.76	32.90	23.11	174.18	-373.36	160.09	1,818.38	1,772.53	45.85	39.656						
6,700.00	6,421.67	6,293.23	6,275.62	33.60	23.46	174.24	-380.20	162.24	1,863.64	1,817.07	46.57	40.016						
6,800.00	6,514.05	6,382.38	6,364.48	34.30	23.80	174.30	-387.04	164.38	1,908.90	1,861.61	47.29	40.364						
6,809.17	6,522.52	6,390.55	6,372.63	34.36	23.83	174.31	-387.66	164.57	1,913.05	1,865.69	47.36	40.395						
6,850.00	6,560.22	6,426.90	6,408.86	34.65	23.97	-173.86	-390.45	165.45	1,931.62	1,883.97	47.65	40.537						
6,900.00	6,606.13	6,471.07	6,452.89	35.00	24.14	-160.22	-393.84	166.51	1,954.51	1,906.51	48.01	40.715						
6,950.00	6,651.44	6,514.56	6,496.24	35.34	24.31	-148.21	-397.18	167.55	1,977.44	1,929.09	48.35	40.897						
7,000.00	6,695.79	6,557.04	6,538.58	35.67	24.47	-138.05	-400.44	168.57	2,000.29	1,951.60	48.69	41.084						
7,050.00	6,738.87	6,598.18	6,579.58	36.00	24.63	-129.61	-403.59	169.56	2,022.96	1,973.95	49.01	41.274						
7,100.00	6,780.32	6,637.66	6,618.94	36.31	24.78	-122.60	-406.62	170.51	2,045.38	1,996.05	49.33	41.467						
7,150.00	6,819.85	6,675.20	6,656.35	36.61	24.93	-116.76	-409.50	171.41	2,067.49	2,017.86	49.62	41.662						
7,200.00	6,857.14	6,729.37	6,710.35	36.91	25.13	-112.16	-413.67	171.24	2,089.15	2,039.11	50.05	41.745						
7,250.00	6,891.92	6,801.14	6,781.42	37.19	25.38	-108.60	-419.22	163.34	2,109.87	2,059.30	50.57	41.719						
7,300.00	6,923.92	6,884.22	6,861.69	37.46	25.64	-105.78	-425.58	143.17	2,129.34	2,078.20	51.14	41.634						
7,350.00	6,952.90	6,981.78	6,951.03	37.73	25.92	-103.58	-432.80	104.95	2,147.22	2,095.45	51.77	41.476						
7,400.00	6,978.63	7,096.71	7,046.14	37.99	26.19	-101.86	-440.66	41.25	2,163.08	2,110.59	52.49	41.212						
7,450.00	7,000.93	7,229.86	7,137.88	38.25	26.45	-100.42	-448.54	-54.51	2,176.38	2,122.97	53.41	40.747						
7,500.00	7,019.61	7,377.36	7,210.78	38.51	26.87	-99.01	-455.22	-182.09	2,186.64	2,131.87	54.76	39.929						
7,550.00	7,034.55	7,529.38	7,249.46	38.77	28.04	-97.46	-459.42	-328.59	2,193.50	2,136.80	56.70	38.688						
7,600.00	7,045.61	7,626.58	7,254.00	39.04	29.12	-96.16	-460.58	-425.59	2,197.23	2,138.86	58.38	37.638						
7,650.00	7,052.73	7,675.96	7,254.00	39.32	29.73	-95.47	-460.99	-474.97	2,199.49	2,139.96	59.53	36.949						
7,700.00	7,055.85	7,725.83	7,254.00	39.60	30.40	-95.18	-461.40	-524.84	2,200.48	2,139.71	60.77	36.210						
7,713.69	7,056.00	7,739.52	7,254.00	39.68	30.60	-95.16	-461.52	-538.53	2,200.52	2,139.39	61.13	35.999						
7,800.00	7,056.00	7,825.83	7,254.00	40.23	31.88	-95.16	-462.23	-624.84	2,200.49	2,136.98	63.51	34.648						
7,900.00	7,056.00	7,925.83	7,254.00	41.02	33.51	-95.16	-463.07	-724.83	2,200.45	2,133.87	66.58	33.050						
8,000.00	7,056.00	8,025.83	7,254.00	41.97	35.28	-95.16	-463.90	-824.83	2,200.42	2,130.48	69.94	31.463						
8,100.00	7,056.00	8,125.83	7,254.00	43.10	37.16	-95.16	-464.73	-924.83	2,200.38	2,126.84	73.54	29.921						
8,200.00	7,056.00	8,225.83	7,254.00	44.40	39.14	-95.16	-465.56	-1,024.82	2,200.35	2,122.99	77.36	28.445						
8,300.00	7,056.00	8,325.83	7,254.00	45.85	41.21	-95.16	-466.39	-1,124.82	2,200.31	2,118.96	81.35	27.046						
8,400.00	7,056.00	8,425.83	7,254.00	47.44	43.35	-95.16	-467.22	-1,224.82	2,200.28	2,114.77	85.51	25.731						
8,500.00	7,056.00	8,525.83	7,254.00	49.17	45.55	-95.16	-468.05	-1,324.81	2,200.24	2,110.44	89.80	24.501						
8,600.00	7,056.00	8,625.83	7,254.00	51.00	47.80	-95.16	-468.88	-1,424.81	2,200.21	2,106.00	94.21	23.355						
8,700.00	7,056.00	8,725.83	7,254.00	52.93	50.10	-95.16	-469.71	-1,524.81	2,200.17	2,101.45	98.72	22.288						
8,800.00	7,056.00	8,825.83	7,254.00	54.94	52.44	-95.16	-470.54	-1,624.80	2,200.14	2,096.82	103.31	21.296						
8,900.00	7,056.00	8,925.83	7,254.00	57.02	54.82	-95.16	-471.37	-1,724.80	2,200.10	2,092.11	107.99	20.373						
9,000.00	7,056.00	9,025.83	7,254.00	59.16	57.23	-95.16	-472.20	-1,824.80	2,200.07	2,087.34	112.73	19.516						

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-11H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
9,100.00	7,056.00	9,125.83	7,254.00	61.36	59.66	-95.16	-473.03	-1,924.79	2,200.03	2,082.50	117.53	18.719		
9,200.00	7,056.00	9,225.83	7,254.00	63.60	62.12	-95.16	-473.86	-2,024.79	2,200.00	2,077.61	122.38	17.976		
9,300.00	7,056.00	9,325.83	7,254.00	65.89	64.60	-95.16	-474.69	-2,124.79	2,199.96	2,072.68	127.28	17.284		
9,400.00	7,056.00	9,425.83	7,254.00	68.21	67.09	-95.16	-475.52	-2,224.78	2,199.92	2,067.70	132.22	16.638		
9,500.00	7,056.00	9,525.83	7,254.00	70.56	69.61	-95.16	-476.35	-2,324.78	2,199.89	2,062.69	137.20	16.035		
9,600.00	7,056.00	9,625.83	7,254.00	72.95	72.14	-95.16	-477.18	-2,424.78	2,199.85	2,057.65	142.21	15.470		
9,700.00	7,056.00	9,725.83	7,254.00	75.35	74.68	-95.16	-478.01	-2,524.77	2,199.82	2,052.57	147.24	14.940		
9,800.00	7,056.00	9,825.83	7,254.00	77.78	77.24	-95.16	-478.84	-2,624.77	2,199.78	2,047.47	152.31	14.443		
9,900.00	7,056.00	9,925.83	7,254.00	80.23	79.80	-95.16	-479.67	-2,724.77	2,199.75	2,042.35	157.40	13.976		
10,000.00	7,056.00	10,025.83	7,254.00	82.70	82.38	-95.16	-480.50	-2,824.76	2,199.71	2,037.20	162.51	13.536		
10,100.00	7,056.00	10,125.83	7,254.00	85.19	84.96	-95.16	-481.33	-2,924.76	2,199.68	2,032.04	167.64	13.121		
10,200.00	7,056.00	10,225.83	7,254.00	87.69	87.56	-95.16	-482.16	-3,024.76	2,199.64	2,026.85	172.79	12.730		
10,300.00	7,056.00	10,325.83	7,254.00	90.20	90.16	-95.16	-482.99	-3,124.75	2,199.61	2,021.65	177.95	12.361		
10,400.00	7,056.00	10,425.83	7,254.00	92.73	92.76	-95.16	-483.82	-3,224.75	2,199.57	2,016.44	183.13	12.011		
10,500.00	7,056.00	10,525.83	7,254.00	95.27	95.38	-95.16	-484.65	-3,324.75	2,199.54	2,011.21	188.33	11.679		
10,600.00	7,056.00	10,625.83	7,254.00	97.81	98.00	-95.16	-485.48	-3,424.74	2,199.50	2,005.97	193.53	11.365		
10,700.00	7,056.00	10,725.83	7,254.00	100.37	100.62	-95.16	-486.31	-3,524.74	2,199.47	2,000.72	198.75	11.067		
10,800.00	7,056.00	10,825.83	7,254.00	102.94	103.26	-95.16	-487.14	-3,624.73	2,199.43	1,995.45	203.98	10.783		
10,900.00	7,056.00	10,925.83	7,254.00	105.51	105.89	-95.17	-487.98	-3,724.73	2,199.39	1,990.18	209.22	10.513		
11,000.00	7,056.00	11,025.83	7,254.00	108.09	108.53	-95.17	-488.81	-3,824.73	2,199.36	1,984.90	214.46	10.255		
11,100.00	7,056.00	11,125.83	7,254.00	110.68	111.17	-95.17	-489.64	-3,924.72	2,199.32	1,979.60	219.72	10.010		
11,200.00	7,056.00	11,225.83	7,254.00	113.28	113.82	-95.17	-490.47	-4,024.72	2,199.29	1,974.30	224.99	9.775		
11,300.00	7,056.00	11,325.83	7,254.00	115.88	116.47	-95.17	-491.30	-4,124.72	2,199.25	1,969.00	230.26	9.551		
11,400.00	7,056.00	11,425.83	7,254.00	118.49	119.12	-95.17	-492.13	-4,224.71	2,199.22	1,963.68	235.54	9.337		
11,500.00	7,056.00	11,525.83	7,254.00	121.10	121.78	-95.17	-492.96	-4,324.71	2,199.18	1,958.36	240.82	9.132		
11,600.00	7,056.00	11,625.83	7,254.00	123.72	124.44	-95.17	-493.79	-4,424.71	2,199.15	1,953.04	246.11	8.936		
11,700.00	7,056.00	11,725.83	7,254.00	126.34	127.10	-95.17	-494.62	-4,524.70	2,199.11	1,947.70	251.41	8.747		
11,800.00	7,056.00	11,825.83	7,254.00	128.97	129.77	-95.17	-495.45	-4,624.70	2,199.08	1,942.37	256.71	8.566		
11,900.00	7,056.00	11,925.83	7,254.00	131.60	132.43	-95.17	-496.28	-4,724.70	2,199.04	1,937.02	262.02	8.393		
12,000.00	7,056.00	12,025.83	7,254.00	134.23	135.10	-95.17	-497.11	-4,824.69	2,199.01	1,931.68	267.33	8.226		
12,100.00	7,056.00	12,125.83	7,254.00	136.87	137.77	-95.17	-497.94	-4,924.69	2,198.97	1,926.32	272.65	8.065		
12,200.00	7,056.00	12,225.83	7,254.00	139.51	140.45	-95.17	-498.77	-5,024.69	2,198.94	1,920.97	277.97	7.911		
12,300.00	7,056.00	12,325.83	7,254.00	142.15	143.12	-95.17	-499.60	-5,124.68	2,198.90	1,915.61	283.29	7.762		
12,400.00	7,056.00	12,425.83	7,254.00	144.80	145.80	-95.17	-500.43	-5,224.68	2,198.87	1,910.25	288.62	7.619		
12,500.00	7,056.00	12,525.83	7,254.00	147.45	148.48	-95.17	-501.26	-5,324.68	2,198.83	1,904.88	293.95	7.480		
12,600.00	7,056.00	12,625.83	7,254.00	150.10	151.16	-95.17	-502.09	-5,424.67	2,198.79	1,899.51	299.29	7.347		
12,700.00	7,056.00	12,725.83	7,254.00	152.75	153.84	-95.17	-502.92	-5,524.67	2,198.76	1,894.14	304.62	7.218		
12,800.00	7,056.00	12,825.83	7,254.00	155.41	156.52	-95.17	-503.75	-5,624.67	2,198.72	1,888.76	309.97	7.093		
12,900.00	7,056.00	12,925.83	7,254.00	158.07	159.21	-95.17	-504.58	-5,724.66	2,198.69	1,883.38	315.31	6.973		
13,000.00	7,056.00	13,025.83	7,254.00	160.73	161.89	-95.17	-505.41	-5,824.66	2,198.65	1,878.00	320.66	6.857		
13,100.00	7,056.00	13,125.83	7,254.00	163.39	164.58	-95.17	-506.24	-5,924.66	2,198.62	1,872.61	326.01	6.744		
13,200.00	7,056.00	13,225.83	7,254.00	166.06	167.26	-95.17	-507.07	-6,024.65	2,198.58	1,867.23	331.36	6.635		
13,300.00	7,056.00	13,325.83	7,254.00	168.73	169.95	-95.17	-507.90	-6,124.65	2,198.55	1,861.84	336.71	6.529		
13,400.00	7,056.00	13,425.83	7,254.00	171.40	172.64	-95.17	-508.73	-6,224.64	2,198.51	1,856.45	342.07	6.427		
13,500.00	7,056.00	13,525.83	7,254.00	174.07	175.33	-95.17	-509.56	-6,324.64	2,198.48	1,851.05	347.42	6.328		
13,600.00	7,056.00	13,625.83	7,254.00	176.74	178.03	-95.17	-510.39	-6,424.64	2,198.44	1,845.66	352.79	6.232		
13,700.00	7,056.00	13,725.83	7,254.00	179.41	180.72	-95.17	-511.22	-6,524.63	2,198.41	1,840.26	358.15	6.138		
13,800.00	7,056.00	13,825.83	7,254.00	182.09	183.41	-95.17	-512.05	-6,624.63	2,198.37	1,834.86	363.51	6.048		
13,900.00	7,056.00	13,925.83	7,254.00	184.76	186.11	-95.17	-512.89	-6,724.63	2,198.34	1,829.46	368.88	5.960		
14,000.00	7,056.00	14,025.83	7,254.00	187.44	188.80	-95.17	-513.72	-6,824.62	2,198.30	1,824.06	374.24	5.874		
14,100.00	7,056.00	14,125.83	7,254.00	190.12	191.50	-95.17	-514.55	-6,924.62	2,198.27	1,818.65	379.61	5.791		
14,200.00	7,056.00	14,225.83	7,254.00	192.80	194.19	-95.17	-515.38	-7,024.62	2,198.23	1,813.25	384.98	5.710		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-11H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,056.00	14,325.83	7,254.00	195.48	196.89	-95.17	-516.21	-7,124.61	2,198.19	1,807.84	390.36	5.631		
14,400.00	7,056.00	14,425.83	7,254.00	198.16	199.59	-95.17	-517.04	-7,224.61	2,198.16	1,802.43	395.73	5.555		
14,500.00	7,056.00	14,525.83	7,254.00	200.85	202.29	-95.17	-517.87	-7,324.61	2,198.12	1,797.02	401.11	5.480		
14,600.00	7,056.00	14,625.83	7,254.00	203.53	204.99	-95.17	-518.70	-7,424.60	2,198.09	1,791.61	406.48	5.408		
14,700.00	7,056.00	14,725.83	7,254.00	206.22	207.69	-95.17	-519.53	-7,524.60	2,198.05	1,786.19	411.86	5.337		
14,800.00	7,056.00	14,825.83	7,254.00	208.91	210.39	-95.17	-520.36	-7,624.60	2,198.02	1,780.78	417.24	5.268		
14,900.00	7,056.00	14,925.83	7,254.00	211.59	213.09	-95.17	-521.19	-7,724.59	2,197.98	1,775.37	422.62	5.201		
15,000.00	7,056.00	15,025.83	7,254.00	214.28	215.79	-95.17	-522.02	-7,824.59	2,197.95	1,769.95	428.00	5.135		
15,100.00	7,056.00	15,125.83	7,254.00	216.97	218.49	-95.17	-522.85	-7,924.59	2,197.91	1,764.53	433.38	5.072		
15,200.00	7,056.00	15,225.83	7,254.00	219.66	221.19	-95.17	-523.68	-8,024.58	2,197.88	1,759.11	438.76	5.009		
15,300.00	7,056.00	15,325.83	7,254.00	222.35	223.90	-95.17	-524.51	-8,124.58	2,197.84	1,753.69	444.15	4.948		
15,400.00	7,056.00	15,425.83	7,254.00	225.04	226.60	-95.17	-525.34	-8,224.58	2,197.81	1,748.27	449.53	4.889		
15,496.19	7,056.00	15,522.31	7,254.00	227.63	229.21	-95.17	-526.14	-8,321.05	2,197.77	1,743.05	454.72	4.833		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Distance			Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	50.22	25.50	30.63	39.86						
100.00	100.00	100.00	100.00	0.14	0.14	50.22	25.50	30.63	39.86	39.57	0.29	138.985			
200.00	200.00	200.00	200.00	0.50	0.50	50.22	25.50	30.63	39.86	38.85	1.00	39.710			
300.00	300.00	300.00	300.00	0.86	0.86	50.22	25.50	30.63	39.86	38.14	1.72	23.164			
400.00	400.00	400.00	400.00	1.22	1.22	50.22	25.50	30.63	39.86	37.42	2.44	16.351			
500.00	500.00	500.00	500.00	1.58	1.58	50.22	25.50	30.63	39.86	36.70	3.15	12.635			
600.00	600.00	600.00	600.00	1.94	1.94	50.22	25.50	30.63	39.86	35.99	3.87	10.295			
700.00	700.00	700.44	700.42	2.29	2.28	52.63	23.85	31.23	39.29	34.72	4.57	8.592			
800.00	800.00	800.63	800.46	2.65	2.62	60.21	18.90	33.01	38.04	32.77	5.27	7.224			
878.97	878.97	879.41	878.97	2.94	2.89	70.19	12.70	35.24	37.46	31.64	5.82	6.435 CC			
900.00	900.00	900.33	899.78	3.01	2.96	73.42	10.71	35.96	37.52	31.55	5.97	6.286 ES			
1,000.00	1,000.00	999.30	998.01	3.37	3.32	90.91	-0.64	40.04	40.10	33.42	6.68	6.004			
1,100.00	1,100.00	1,097.89	1,095.47	3.73	3.70	107.97	-14.62	45.08	47.61	40.23	7.38	6.450			
1,200.00	1,200.00	1,196.69	1,193.09	4.09	4.09	119.96	-28.96	50.24	58.40	50.32	8.08	7.226			
1,300.00	1,300.00	1,295.49	1,290.71	4.45	4.49	128.01	-43.30	55.41	70.93	62.15	8.78	8.075			
1,400.00	1,400.00	1,394.30	1,388.33	4.80	4.90	133.58	-57.64	60.57	84.42	74.93	9.49	8.897			
1,500.00	1,500.00	1,493.10	1,485.95	5.16	5.31	137.60	-71.98	65.73	98.48	88.29	10.20	9.659			
1,600.00	1,600.00	1,591.90	1,583.57	5.52	5.73	140.60	-86.32	70.90	112.90	101.99	10.91	10.352			
1,700.00	1,700.00	1,690.71	1,681.19	5.88	6.15	142.92	-100.66	76.06	127.55	115.94	11.62	10.979			
1,800.00	1,800.00	1,789.51	1,778.81	6.24	6.58	144.77	-114.99	81.22	142.37	130.04	12.33	11.545			
1,900.00	1,900.00	1,888.31	1,876.43	6.60	7.00	146.26	-129.33	86.39	157.30	144.26	13.05	12.057			
2,000.00	2,000.00	1,987.12	1,974.06	6.95	7.43	147.49	-143.67	91.55	172.32	158.56	13.76	12.521			
2,100.00	2,100.00	2,085.92	2,071.68	7.31	7.86	148.53	-158.01	96.71	187.41	172.93	14.48	12.943			
2,200.00	2,200.00	2,184.72	2,169.30	7.67	8.29	149.41	-172.35	101.88	202.55	187.35	15.20	13.328			
2,300.00	2,300.00	2,283.53	2,266.92	8.03	8.73	150.17	-186.69	107.04	217.73	201.81	15.92	13.680			
2,400.00	2,399.98	2,382.06	2,364.27	8.39	9.16	150.19	-200.99	112.19	234.43	217.80	16.63	14.094			
2,500.00	2,499.84	2,479.96	2,461.00	8.75	9.59	151.14	-215.20	117.31	254.19	236.84	17.35	14.653			
2,600.00	2,599.45	2,577.13	2,557.00	9.10	10.02	152.24	-229.30	122.38	277.04	258.99	18.05	15.345			
2,700.00	2,698.70	2,673.43	2,652.15	9.46	10.44	153.42	-243.27	127.42	303.05	284.29	18.76	16.156			
2,800.00	2,797.47	2,768.75	2,746.33	9.82	10.86	154.63	-257.11	132.40	332.24	312.78	19.46	17.077			
2,900.00	2,895.62	2,862.98	2,839.43	10.20	11.28	155.80	-270.78	137.32	364.62	344.48	20.15	18.097			
3,000.00	2,993.06	2,955.99	2,931.34	10.58	11.69	156.93	-284.28	142.18	400.21	379.38	20.84	19.208			
3,100.00	3,089.64	3,047.68	3,021.93	10.98	12.10	157.99	-297.59	146.97	438.99	417.47	21.52	20.401			
3,200.00	3,185.27	3,137.94	3,111.11	11.40	12.50	158.97	-310.68	151.69	480.94	458.74	22.20	21.669			
3,300.00	3,279.82	3,226.65	3,198.76	11.85	12.89	159.86	-323.56	156.33	526.02	503.15	22.87	23.005			
3,400.00	3,373.17	3,313.71	3,284.77	12.32	13.28	160.68	-336.19	160.88	574.18	550.65	23.53	24.404			
3,425.78	3,397.02	3,335.87	3,306.67	12.45	13.38	160.87	-339.41	162.03	587.09	563.39	23.70	24.771			
3,500.00	3,465.59	3,399.51	3,369.54	12.83	13.66	161.66	-348.64	165.36	624.60	600.41	24.19	25.825			
3,600.00	3,557.97	3,485.25	3,454.26	13.35	14.04	162.59	-361.09	169.84	675.25	650.41	24.84	27.182			
3,700.00	3,650.35	3,570.99	3,538.97	13.89	14.42	163.39	-373.53	174.32	726.02	700.52	25.50	28.469			
3,800.00	3,742.72	3,656.73	3,623.68	14.45	14.80	164.08	-385.97	178.80	776.88	750.71	26.17	29.691			
3,900.00	3,835.10	3,742.47	3,708.40	15.03	15.19	164.69	-398.42	183.28	827.81	800.98	26.83	30.851			
4,000.00	3,927.48	3,828.21	3,793.11	15.61	15.57	165.23	-410.86	187.76	878.81	851.31	27.50	31.954			
4,100.00	4,019.86	3,913.94	3,877.82	16.21	15.95	165.71	-423.30	192.24	929.86	901.69	28.18	33.003			
4,200.00	4,112.23	3,999.68	3,962.54	16.82	16.33	166.14	-435.74	196.72	980.95	952.10	28.85	34.001			
4,300.00	4,204.61	4,085.42	4,047.25	17.44	16.71	166.53	-448.19	201.21	1,032.08	1,002.55	29.53	34.952			
4,400.00	4,296.99	4,171.16	4,131.96	18.06	17.09	166.88	-460.63	205.69	1,083.24	1,053.04	30.21	35.859			
4,500.00	4,389.37	4,256.90	4,216.67	18.69	17.48	167.20	-473.07	210.17	1,134.43	1,103.54	30.89	36.724			
4,600.00	4,481.74	4,342.64	4,301.39	19.33	17.86	167.50	-485.51	214.65	1,185.65	1,154.07	31.58	37.550			
4,700.00	4,574.12	4,428.38	4,386.10	19.98	18.24	167.77	-497.96	219.13	1,236.88	1,204.62	32.26	38.339			
4,800.00	4,666.50	4,514.12	4,470.81	20.63	18.62	168.01	-510.40	223.61	1,288.13	1,255.18	32.95	39.094			
4,900.00	4,758.88	4,599.86	4,555.53	21.29	19.01	168.24	-522.84	228.09	1,339.40	1,305.76	33.64	39.816			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.00	4,851.25	4,685.60	4,640.24	21.95	19.39	168.45	-535.29	232.57	1,390.69	1,356.36	34.33	40.508		
5,100.00	4,943.63	4,771.34	4,724.95	22.61	19.77	168.65	-547.73	237.05	1,441.98	1,406.96	35.02	41.172		
5,200.00	5,036.01	4,857.07	4,809.67	23.28	20.15	168.83	-560.17	241.53	1,493.29	1,457.57	35.72	41.808		
5,300.00	5,128.39	4,942.81	4,894.38	23.95	20.54	169.00	-572.61	246.01	1,544.61	1,508.20	36.41	42.418		
5,400.00	5,220.76	5,028.55	4,979.09	24.62	20.92	169.16	-585.06	250.49	1,595.94	1,558.83	37.11	43.004		
5,500.00	5,313.14	5,114.29	5,063.80	25.30	21.30	169.31	-597.50	254.97	1,647.28	1,609.47	37.81	43.568		
5,600.00	5,405.52	5,200.03	5,148.52	25.98	21.68	169.46	-609.94	259.45	1,698.62	1,660.11	38.51	44.109		
5,700.00	5,497.90	5,285.77	5,233.23	26.67	22.07	169.59	-622.39	263.93	1,749.97	1,710.76	39.21	44.631		
5,800.00	5,590.28	5,371.51	5,317.94	27.35	22.45	169.71	-634.83	268.42	1,801.33	1,761.42	39.91	45.132		
5,900.00	5,682.65	5,457.25	5,402.66	28.04	22.83	169.83	-647.27	272.90	1,852.70	1,812.08	40.62	45.616		
6,000.00	5,775.03	5,542.99	5,487.37	28.73	23.22	169.94	-659.71	277.38	1,904.07	1,862.75	41.32	46.082		
6,100.00	5,867.41	5,628.73	5,572.08	29.42	23.60	170.05	-672.16	281.86	1,955.44	1,913.42	42.02	46.531		
6,200.00	5,959.79	5,714.47	5,656.80	30.11	23.98	170.15	-684.60	286.34	2,006.82	1,964.09	42.73	46.964		
6,300.00	6,052.16	5,800.20	5,741.51	30.80	24.37	170.25	-697.04	290.82	2,058.21	2,014.77	43.44	47.383		
6,400.00	6,144.54	5,885.94	5,826.22	31.50	24.75	170.34	-709.49	295.30	2,109.60	2,065.45	44.15	47.787		
6,500.00	6,236.92	5,971.68	5,910.93	32.20	25.13	170.42	-721.93	299.78	2,160.99	2,116.13	44.85	48.178		
6,600.00	6,329.30	6,057.42	5,995.65	32.90	25.52	170.51	-734.37	304.26	2,212.38	2,166.82	45.56	48.555		
6,700.00	6,421.67	6,143.16	6,080.36	33.60	25.90	170.59	-746.81	308.74	2,263.78	2,217.51	46.27	48.920		
6,800.00	6,514.05	6,228.90	6,165.07	34.30	26.28	170.66	-759.26	313.22	2,315.18	2,268.20	46.99	49.273		
6,809.17	6,522.52	6,236.76	6,172.84	34.36	26.32	170.67	-760.40	313.63	2,319.90	2,272.84	47.05	49.305		
6,850.00	6,560.22	6,271.68	6,207.34	34.65	26.47	-177.11	-765.46	315.46	2,341.05	2,293.71	47.34	49.452		
6,900.00	6,606.13	6,314.00	6,249.15	35.00	26.66	-162.95	-771.61	317.67	2,367.28	2,319.60	47.68	49.645		
6,950.00	6,651.44	6,355.53	6,290.19	35.34	26.85	-150.35	-777.63	319.84	2,393.72	2,345.70	48.02	49.852		
7,000.00	6,695.79	6,395.98	6,330.15	35.67	27.03	-139.57	-783.50	321.95	2,420.20	2,371.87	48.33	50.073		
7,050.00	6,738.87	6,435.01	6,368.72	36.00	27.20	-130.48	-789.17	323.99	2,446.60	2,397.96	48.64	50.305		
7,100.00	6,780.32	6,472.35	6,405.61	36.31	27.37	-122.82	-794.59	325.94	2,472.78	2,423.86	48.92	50.547		
7,150.00	6,819.85	6,507.70	6,440.54	36.61	27.53	-116.32	-799.72	327.79	2,498.64	2,449.45	49.19	50.796		
7,200.00	6,857.14	6,557.22	6,489.48	36.91	27.75	-111.04	-806.91	329.94	2,524.08	2,474.51	49.56	50.925		
7,250.00	6,891.92	6,704.14	6,633.45	37.19	28.30	-107.96	-828.26	313.09	2,548.08	2,497.53	50.55	50.408		
7,300.00	6,923.92	6,882.10	6,794.71	37.46	28.76	-105.33	-852.59	243.85	2,569.23	2,517.73	51.50	49.888		
7,350.00	6,952.90	7,179.80	6,994.70	37.73	29.16	-102.50	-883.83	30.31	2,586.20	2,533.14	53.06	48.738		
7,400.00	6,978.63	7,434.91	7,062.27	37.99	29.53	-98.29	-895.81	-213.21	2,598.07	2,542.57	55.50	46.812		
7,450.00	7,000.93	7,502.11	7,063.00	38.25	29.87	-95.70	-896.48	-280.39	2,606.69	2,550.11	56.57	46.075		
7,500.00	7,019.61	7,547.82	7,063.00	38.51	30.22	-93.78	-896.86	-326.10	2,614.03	2,556.51	57.52	45.445		
7,550.00	7,034.55	7,595.12	7,063.00	38.77	30.69	-92.28	-897.25	-373.40	2,620.00	2,561.47	58.53	44.760		
7,600.00	7,045.61	7,643.65	7,063.00	39.04	31.27	-91.17	-897.65	-421.93	2,624.48	2,564.78	59.69	43.965		
7,650.00	7,052.73	7,693.04	7,063.00	39.32	31.92	-90.47	-898.06	-471.32	2,627.37	2,566.45	60.92	43.126		
7,700.00	7,055.85	7,742.91	7,063.00	39.60	32.65	-90.17	-898.48	-521.18	2,628.64	2,566.36	62.27	42.212		
7,713.69	7,056.00	7,756.60	7,063.00	39.68	32.86	-90.15	-898.59	-534.87	2,628.69	2,566.04	62.65	41.957		
7,800.00	7,056.00	7,842.91	7,063.00	40.23	34.24	-90.15	-899.31	-621.18	2,628.66	2,563.48	65.19	40.324		
7,900.00	7,056.00	7,942.91	7,063.00	41.02	35.99	-90.15	-900.14	-721.18	2,628.63	2,560.22	68.41	38.423		
8,000.00	7,056.00	8,042.91	7,063.00	41.97	37.86	-90.15	-900.97	-821.17	2,628.59	2,556.69	71.91	36.555		
8,100.00	7,056.00	8,142.91	7,063.00	43.10	39.83	-90.15	-901.80	-921.17	2,628.56	2,552.93	75.63	34.755		
8,200.00	7,056.00	8,242.91	7,063.00	44.40	41.88	-90.15	-902.64	-1,021.17	2,628.53	2,548.97	79.55	33.040		
8,300.00	7,056.00	8,342.91	7,063.00	45.85	44.01	-90.15	-903.47	-1,121.16	2,628.49	2,544.84	83.65	31.423		
8,400.00	7,056.00	8,442.91	7,063.00	47.44	46.20	-90.15	-904.30	-1,221.16	2,628.46	2,540.57	87.89	29.906		
8,500.00	7,056.00	8,542.91	7,063.00	49.17	48.44	-90.15	-905.13	-1,321.16	2,628.42	2,536.16	92.26	28.490		
8,600.00	7,056.00	8,642.91	7,063.00	51.00	50.74	-90.15	-905.96	-1,421.15	2,628.39	2,531.65	96.74	27.171		
8,700.00	7,056.00	8,742.91	7,063.00	52.93	53.07	-90.15	-906.79	-1,521.15	2,628.35	2,527.05	101.31	25.944		
8,800.00	7,056.00	8,842.91	7,063.00	54.94	55.43	-90.15	-907.62	-1,621.15	2,628.32	2,522.36	105.96	24.804		
8,900.00	7,056.00	8,942.91	7,063.00	57.02	57.83	-90.15	-908.46	-1,721.14	2,628.29	2,517.59	110.69	23.744		
9,000.00	7,056.00	9,042.91	7,063.00	59.16	60.26	-90.15	-909.29	-1,821.14	2,628.25	2,512.77	115.48	22.759		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
9,100.00	7,056.00	9,142.91	7,063.00	61.36	62.71	-90.15	-910.12	-1,921.14	2,628.22	2,507.89	120.33	21.842		
9,200.00	7,056.00	9,242.91	7,063.00	63.60	65.18	-90.15	-910.95	-2,021.13	2,628.18	2,502.96	125.23	20.987		
9,300.00	7,056.00	9,342.91	7,063.00	65.89	67.67	-90.15	-911.78	-2,121.13	2,628.15	2,497.98	130.17	20.191		
9,400.00	7,056.00	9,442.91	7,063.00	68.21	70.18	-90.15	-912.61	-2,221.12	2,628.11	2,492.97	135.15	19.447		
9,500.00	7,056.00	9,542.91	7,063.00	70.56	72.70	-90.15	-913.44	-2,321.12	2,628.08	2,487.92	140.16	18.751		
9,600.00	7,056.00	9,642.91	7,063.00	72.95	75.23	-90.15	-914.28	-2,421.12	2,628.04	2,482.84	145.20	18.099		
9,700.00	7,056.00	9,742.91	7,063.00	75.35	77.78	-90.15	-915.11	-2,521.11	2,628.01	2,477.73	150.28	17.488		
9,800.00	7,056.00	9,842.91	7,063.00	77.78	80.34	-90.15	-915.94	-2,621.11	2,627.98	2,472.60	155.37	16.914		
9,900.00	7,056.00	9,942.91	7,063.00	80.23	82.91	-90.15	-916.77	-2,721.11	2,627.94	2,467.45	160.49	16.374		
10,000.00	7,056.00	10,042.91	7,063.00	82.70	85.49	-90.15	-917.60	-2,821.10	2,627.91	2,462.27	165.64	15.866		
10,100.00	7,056.00	10,142.91	7,063.00	85.19	88.08	-90.15	-918.43	-2,921.10	2,627.87	2,457.08	170.80	15.386		
10,200.00	7,056.00	10,242.91	7,063.00	87.69	90.68	-90.15	-919.26	-3,021.10	2,627.84	2,451.87	175.97	14.933		
10,300.00	7,056.00	10,342.91	7,063.00	90.20	93.28	-90.15	-920.10	-3,121.09	2,627.80	2,446.64	181.17	14.505		
10,400.00	7,056.00	10,442.91	7,063.00	92.73	95.89	-90.15	-920.93	-3,221.09	2,627.77	2,441.40	186.37	14.100		
10,500.00	7,056.00	10,542.91	7,063.00	95.27	98.50	-90.15	-921.76	-3,321.09	2,627.74	2,436.14	191.59	13.715		
10,600.00	7,056.00	10,642.91	7,063.00	97.81	101.13	-90.15	-922.59	-3,421.08	2,627.70	2,430.88	196.83	13.350		
10,700.00	7,056.00	10,742.91	7,063.00	100.37	103.75	-90.15	-923.42	-3,521.08	2,627.67	2,425.60	202.07	13.004		
10,800.00	7,056.00	10,842.91	7,063.00	102.94	106.38	-90.15	-924.25	-3,621.08	2,627.63	2,420.31	207.32	12.674		
10,900.00	7,056.00	10,942.91	7,063.00	105.51	109.02	-90.15	-925.08	-3,721.07	2,627.60	2,415.01	212.59	12.360		
11,000.00	7,056.00	11,042.91	7,063.00	108.09	111.66	-90.15	-925.92	-3,821.07	2,627.56	2,409.70	217.86	12.061		
11,100.00	7,056.00	11,142.91	7,063.00	110.68	114.30	-90.15	-926.75	-3,921.07	2,627.53	2,404.39	223.14	11.775		
11,200.00	7,056.00	11,242.91	7,063.00	113.28	116.95	-90.15	-927.58	-4,021.06	2,627.50	2,399.07	228.43	11.502		
11,300.00	7,056.00	11,342.91	7,063.00	115.88	119.60	-90.15	-928.41	-4,121.06	2,627.46	2,393.74	233.72	11.242		
11,400.00	7,056.00	11,442.91	7,063.00	118.49	122.25	-90.15	-929.24	-4,221.06	2,627.43	2,388.40	239.03	10.992		
11,500.00	7,056.00	11,542.91	7,063.00	121.10	124.91	-90.15	-930.07	-4,321.05	2,627.39	2,383.06	244.33	10.753		
11,600.00	7,056.00	11,642.91	7,063.00	123.72	127.57	-90.15	-930.90	-4,421.05	2,627.36	2,377.71	249.65	10.524		
11,700.00	7,056.00	11,742.91	7,063.00	126.34	130.23	-90.15	-931.74	-4,521.05	2,627.32	2,372.36	254.97	10.305		
11,800.00	7,056.00	11,842.91	7,063.00	128.97	132.89	-90.15	-932.57	-4,621.04	2,627.29	2,367.00	260.29	10.094		
11,900.00	7,056.00	11,942.91	7,063.00	131.60	135.56	-90.15	-933.40	-4,721.04	2,627.25	2,361.63	265.62	9.891		
12,000.00	7,056.00	12,042.91	7,063.00	134.23	138.23	-90.15	-934.23	-4,821.03	2,627.22	2,356.26	270.96	9.696		
12,100.00	7,056.00	12,142.91	7,063.00	136.87	140.90	-90.15	-935.06	-4,921.03	2,627.19	2,350.89	276.30	9.509		
12,200.00	7,056.00	12,242.91	7,063.00	139.51	143.57	-90.15	-935.89	-5,021.03	2,627.15	2,345.51	281.64	9.328		
12,300.00	7,056.00	12,342.91	7,063.00	142.15	146.25	-90.15	-936.72	-5,121.02	2,627.12	2,340.13	286.98	9.154		
12,400.00	7,056.00	12,442.91	7,063.00	144.80	148.92	-90.15	-937.56	-5,221.02	2,627.08	2,334.75	292.33	8.987		
12,500.00	7,056.00	12,542.91	7,063.00	147.45	151.60	-90.15	-938.39	-5,321.02	2,627.05	2,329.36	297.69	8.825		
12,600.00	7,056.00	12,642.91	7,063.00	150.10	154.28	-90.15	-939.22	-5,421.01	2,627.01	2,323.97	303.04	8.669		
12,700.00	7,056.00	12,742.91	7,063.00	152.75	156.96	-90.15	-940.05	-5,521.01	2,626.98	2,318.58	308.40	8.518		
12,800.00	7,056.00	12,842.91	7,063.00	155.41	159.64	-90.15	-940.88	-5,621.01	2,626.95	2,313.18	313.77	8.372		
12,900.00	7,056.00	12,942.91	7,063.00	158.07	162.33	-90.15	-941.71	-5,721.00	2,626.91	2,307.78	319.13	8.231		
13,000.00	7,056.00	13,042.91	7,063.00	160.73	165.01	-90.15	-942.54	-5,821.00	2,626.88	2,302.38	324.50	8.095		
13,100.00	7,056.00	13,142.91	7,063.00	163.39	167.70	-90.15	-943.38	-5,921.00	2,626.84	2,296.97	329.87	7.963		
13,200.00	7,056.00	13,242.91	7,063.00	166.06	170.38	-90.15	-944.21	-6,020.99	2,626.81	2,291.57	335.24	7.836		
13,300.00	7,056.00	13,342.91	7,063.00	168.73	173.07	-90.15	-945.04	-6,120.99	2,626.77	2,286.16	340.62	7.712		
13,400.00	7,056.00	13,442.91	7,063.00	171.40	175.76	-90.15	-945.87	-6,220.99	2,626.74	2,280.75	345.99	7.592		
13,500.00	7,056.00	13,542.91	7,063.00	174.07	178.45	-90.15	-946.70	-6,320.98	2,626.70	2,275.33	351.37	7.476		
13,600.00	7,056.00	13,642.91	7,063.00	176.74	181.14	-90.15	-947.53	-6,420.98	2,626.67	2,269.92	356.75	7.363		
13,700.00	7,056.00	13,742.91	7,063.00	179.41	183.83	-90.15	-948.36	-6,520.98	2,626.64	2,264.50	362.14	7.253		
13,800.00	7,056.00	13,842.91	7,063.00	182.09	186.53	-90.15	-949.20	-6,620.97	2,626.60	2,259.08	367.52	7.147		
13,900.00	7,056.00	13,942.91	7,063.00	184.76	189.22	-90.15	-950.03	-6,720.97	2,626.57	2,253.66	372.91	7.043		
14,000.00	7,056.00	14,042.91	7,063.00	187.44	191.91	-90.15	-950.86	-6,820.97	2,626.53	2,248.24	378.30	6.943		
14,100.00	7,056.00	14,142.91	7,063.00	190.12	194.61	-90.15	-951.69	-6,920.96	2,626.50	2,242.81	383.69	6.845		
14,200.00	7,056.00	14,242.91	7,063.00	192.80	197.30	-90.15	-952.52	-7,020.96	2,626.46	2,237.39	389.08	6.751		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,056.00	14,342.91	7,063.00	195.48	200.00	-90.15	-953.35	-7,120.96	2,626.43	2,231.96	394.47	6.658		
14,400.00	7,056.00	14,442.91	7,063.00	198.16	202.70	-90.15	-954.18	-7,220.95	2,626.40	2,226.53	399.86	6.568		
14,500.00	7,056.00	14,542.91	7,063.00	200.85	205.40	-90.15	-955.02	-7,320.95	2,626.36	2,221.10	405.26	6.481		
14,600.00	7,056.00	14,642.91	7,063.00	203.53	208.09	-90.15	-955.85	-7,420.94	2,626.33	2,215.67	410.65	6.395		
14,700.00	7,056.00	14,742.91	7,063.00	206.22	210.79	-90.15	-956.68	-7,520.94	2,626.29	2,210.24	416.05	6.312		
14,800.00	7,056.00	14,842.91	7,063.00	208.91	213.49	-90.15	-957.51	-7,620.94	2,626.26	2,204.81	421.45	6.231		
14,900.00	7,056.00	14,942.91	7,063.00	211.59	216.19	-90.15	-958.34	-7,720.93	2,626.22	2,199.37	426.85	6.153		
15,000.00	7,056.00	15,042.91	7,063.00	214.28	218.89	-90.15	-959.17	-7,820.93	2,626.19	2,193.94	432.25	6.076		
15,100.00	7,056.00	15,142.91	7,063.00	216.97	221.60	-90.15	-960.00	-7,920.93	2,626.16	2,188.50	437.65	6.001		
15,200.00	7,056.00	15,242.91	7,063.00	219.66	224.30	-90.15	-960.84	-8,020.92	2,626.12	2,183.06	443.06	5.927		
15,300.00	7,056.00	15,342.91	7,063.00	222.35	227.00	-90.15	-961.67	-8,120.92	2,626.09	2,177.62	448.46	5.856		
15,400.00	7,056.00	15,442.91	7,063.00	225.04	229.70	-90.15	-962.50	-8,220.92	2,626.05	2,172.19	453.87	5.786		
15,496.19	7,056.00	15,539.10	7,063.00	227.63	232.30	-90.15	-963.30	-8,317.10	2,626.02	2,166.95	459.07	5.720 SF		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	76.61	7.29	30.63	31.48						
100.00	100.00	100.00	100.00	0.14	0.14	76.61	7.29	30.63	31.48	31.20	0.29	109.788			
200.00	200.00	200.00	200.00	0.50	0.50	76.61	7.29	30.63	31.48	30.48	1.00	31.368			
300.00	300.00	300.00	300.00	0.86	0.86	76.61	7.29	30.63	31.48	29.76	1.72	18.298			
400.00	400.00	400.00	400.00	1.22	1.22	76.61	7.29	30.63	31.48	29.05	2.44	12.916			
500.00	500.00	500.00	500.00	1.58	1.58	76.61	7.29	30.63	31.48	28.33	3.15	9.981			
538.72	538.72	538.72	538.72	1.72	1.71	77.09	7.03	30.69	31.48	28.06	3.43	9.191	CC		
600.00	600.00	599.97	599.95	1.94	1.92	79.78	5.59	31.02	31.52	27.66	3.85	8.177			
700.00	700.00	699.69	699.53	2.29	2.26	89.09	0.51	32.18	32.19	27.64	4.55	7.081	ES		
800.00	800.00	798.94	798.40	2.65	2.60	103.04	-7.90	34.11	35.05	29.80	5.25	6.680	SF		
900.00	900.00	897.47	896.19	3.01	2.96	117.98	-19.54	36.78	41.82	35.87	5.95	7.031			
1,000.00	1,000.00	995.06	992.60	3.37	3.34	130.50	-34.30	40.16	53.33	46.69	6.64	8.035			
1,100.00	1,100.00	1,091.50	1,087.31	3.73	3.75	139.63	-52.02	44.22	69.45	62.13	7.31	9.496			
1,200.00	1,200.00	1,188.91	1,182.54	4.09	4.18	145.86	-71.97	48.80	88.68	80.68	8.01	11.076			
1,300.00	1,300.00	1,286.67	1,278.11	4.45	4.62	149.88	-92.03	53.40	108.62	99.92	8.71	12.473			
1,400.00	1,400.00	1,384.43	1,373.68	4.80	5.08	152.64	-112.09	57.99	128.92	119.50	9.42	13.687			
1,500.00	1,500.00	1,482.19	1,469.25	5.16	5.55	154.66	-132.15	62.59	149.42	139.29	10.13	14.748			
1,600.00	1,600.00	1,579.95	1,564.81	5.52	6.02	156.18	-152.21	67.19	170.06	159.22	10.85	15.678			
1,700.00	1,700.00	1,677.71	1,660.38	5.88	6.49	157.38	-172.27	71.79	190.79	179.23	11.56	16.499			
1,800.00	1,800.00	1,775.46	1,755.95	6.24	6.97	158.34	-192.33	76.39	211.58	199.30	12.28	17.226			
1,900.00	1,900.00	1,873.22	1,851.52	6.60	7.45	159.13	-212.40	80.99	232.43	219.42	13.00	17.874			
2,000.00	2,000.00	1,970.98	1,947.08	6.95	7.93	159.79	-232.46	85.58	253.30	239.58	13.72	18.456			
2,100.00	2,100.00	2,068.74	2,042.65	7.31	8.42	160.35	-252.52	90.18	274.20	259.76	14.45	18.980			
2,200.00	2,200.00	2,166.50	2,138.22	7.67	8.91	160.83	-272.58	94.78	295.13	279.96	15.17	19.454			
2,300.00	2,300.00	2,264.26	2,233.79	8.03	9.40	161.24	-292.64	99.38	316.07	300.17	15.89	19.885			
2,400.00	2,399.98	2,361.64	2,328.99	8.39	9.88	160.87	-312.63	103.96	338.63	322.02	16.62	20.377			
2,500.00	2,499.84	2,458.19	2,423.37	8.75	10.37	161.28	-332.44	108.50	364.43	347.09	17.34	21.018			
2,600.00	2,599.45	2,553.79	2,516.83	9.10	10.85	161.76	-352.06	113.00	393.44	375.39	18.05	21.796			
2,700.00	2,698.70	2,648.32	2,609.24	9.46	11.33	162.29	-371.46	117.45	425.66	406.90	18.76	22.693			
2,800.00	2,797.47	2,741.67	2,700.50	9.82	11.80	162.82	-390.61	121.84	461.08	441.62	19.46	23.699			
2,900.00	2,895.62	2,833.72	2,790.49	10.20	12.26	163.36	-409.50	126.17	499.66	479.52	20.15	24.802			
3,000.00	2,993.06	2,924.36	2,879.10	10.58	12.72	163.88	-428.11	130.43	541.39	520.56	20.83	25.992			
3,100.00	3,089.64	3,013.49	2,966.23	10.98	13.17	164.37	-446.40	134.62	586.22	564.72	21.50	27.261			
3,200.00	3,185.27	3,100.99	3,051.77	11.40	13.61	164.83	-464.35	138.74	634.11	611.94	22.17	28.602			
3,300.00	3,279.82	3,186.76	3,135.61	11.85	14.05	165.25	-481.95	142.77	685.01	662.18	22.83	30.009			
3,400.00	3,373.17	3,270.68	3,217.66	12.32	14.47	165.64	-499.17	146.72	738.86	715.39	23.47	31.475			
3,425.78	3,397.02	3,292.01	3,238.50	12.45	14.58	165.73	-503.55	147.73	753.21	729.57	23.64	31.858			
3,500.00	3,465.59	3,353.22	3,298.34	12.83	14.89	166.22	-516.11	150.60	794.84	770.72	24.11	32.961			
3,600.00	3,557.97	3,435.69	3,378.96	13.35	15.31	166.79	-533.04	154.48	850.97	826.22	24.75	34.379			
3,700.00	3,650.35	3,518.16	3,459.59	13.89	15.73	167.30	-549.96	158.36	907.16	881.76	25.40	35.721			
3,800.00	3,742.72	3,600.63	3,540.21	14.45	16.15	167.75	-566.88	162.24	963.39	937.35	26.04	36.994			
3,900.00	3,835.10	3,683.10	3,620.83	15.03	16.57	168.15	-583.81	166.12	1,019.65	992.96	26.69	38.202			
4,000.00	3,927.48	3,765.57	3,701.45	15.61	16.99	168.51	-600.73	170.00	1,075.95	1,048.61	27.34	39.349			
4,100.00	4,019.86	3,848.05	3,782.08	16.21	17.41	168.83	-617.66	173.88	1,132.27	1,104.27	28.00	40.439			
4,200.00	4,112.23	3,930.52	3,862.70	16.82	17.82	169.12	-634.58	177.76	1,188.62	1,159.96	28.66	41.476			
4,300.00	4,204.61	4,012.99	3,943.32	17.44	18.24	169.39	-651.51	181.64	1,244.98	1,215.66	29.32	42.464			
4,400.00	4,296.99	4,095.46	4,023.94	18.06	18.66	169.63	-668.43	185.52	1,301.36	1,271.38	29.98	43.405			
4,500.00	4,389.37	4,177.93	4,104.57	18.69	19.08	169.85	-685.35	189.40	1,357.75	1,327.11	30.65	44.302			
4,600.00	4,481.74	4,260.40	4,185.19	19.33	19.50	170.05	-702.28	193.28	1,414.16	1,382.85	31.32	45.159			
4,700.00	4,574.12	4,342.87	4,265.81	19.98	19.92	170.24	-719.20	197.16	1,470.58	1,438.60	31.98	45.977			
4,800.00	4,666.50	4,425.34	4,346.43	20.63	20.34	170.42	-736.13	201.04	1,527.01	1,494.35	32.66	46.760			
4,900.00	4,758.88	4,507.81	4,427.05	21.29	20.76	170.58	-753.05	204.92	1,583.45	1,550.12	33.33	47.509			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.00	4,851.25	4,590.28	4,507.68	21.95	21.18	170.73	-769.97	208.80	1,639.89	1,605.89	34.00	48.225				
5,100.00	4,943.63	4,672.75	4,588.30	22.61	21.60	170.87	-786.90	212.68	1,696.35	1,661.67	34.68	48.912				
5,200.00	5,036.01	4,755.22	4,668.92	23.28	22.02	171.01	-803.82	216.55	1,752.81	1,717.45	35.36	49.571				
5,300.00	5,128.39	4,837.70	4,749.54	23.95	22.45	171.13	-820.75	220.43	1,809.27	1,773.23	36.04	50.203				
5,400.00	5,220.76	4,920.17	4,830.17	24.62	22.87	171.25	-837.67	224.31	1,865.75	1,829.03	36.72	50.809				
5,500.00	5,313.14	5,002.64	4,910.79	25.30	23.29	171.36	-854.60	228.19	1,922.22	1,884.82	37.40	51.392				
5,600.00	5,405.52	5,085.11	4,991.41	25.98	23.71	171.46	-871.52	232.07	1,978.70	1,940.62	38.09	51.953				
5,700.00	5,497.90	5,167.58	5,072.03	26.67	24.13	171.56	-888.44	235.95	2,035.19	1,996.42	38.77	52.492				
5,800.00	5,590.28	5,250.05	5,152.66	27.35	24.55	171.65	-905.37	239.83	2,091.68	2,052.22	39.46	53.010				
5,900.00	5,682.65	5,332.52	5,233.28	28.04	24.97	171.74	-922.29	243.71	2,148.17	2,108.02	40.15	53.510				
6,000.00	5,775.03	5,414.99	5,313.90	28.73	25.39	171.82	-939.22	247.59	2,204.67	2,163.83	40.83	53.991				
6,100.00	5,867.41	5,497.46	5,394.52	29.42	25.81	171.90	-956.14	251.47	2,261.16	2,219.64	41.52	54.455				
6,200.00	5,959.79	5,579.93	5,475.14	30.11	26.23	171.97	-973.06	255.35	2,317.67	2,275.45	42.21	54.903				
6,300.00	6,052.16	5,662.40	5,555.77	30.80	26.65	172.05	-989.99	259.23	2,374.17	2,331.26	42.91	55.335				
6,400.00	6,144.54	5,744.87	5,636.39	31.50	27.07	172.11	-1,006.91	263.11	2,430.68	2,387.08	43.60	55.751				
6,500.00	6,236.92	5,827.34	5,717.01	32.20	27.49	172.18	-1,023.84	266.99	2,487.19	2,442.89	44.29	56.154				
6,600.00	6,329.30	5,909.82	5,797.63	32.90	27.92	172.24	-1,040.76	270.87	2,543.70	2,498.71	44.99	56.543				
6,700.00	6,421.67	5,992.29	5,878.26	33.60	28.34	172.30	-1,057.69	274.75	2,600.21	2,554.53	45.68	56.920				
6,800.00	6,514.05	6,074.76	5,958.88	34.30	28.76	172.36	-1,074.61	278.62	2,656.72	2,610.35	46.38	57.283				
6,809.17	6,522.52	6,082.32	5,966.27	34.36	28.80	172.36	-1,076.16	278.98	2,661.91	2,615.46	46.44	57.316				
6,850.00	6,560.22	6,115.91	5,999.11	34.65	28.97	-175.07	-1,083.05	280.56	2,685.10	2,638.37	46.72	57.466				
6,900.00	6,606.13	6,156.64	6,038.92	35.00	29.18	-160.48	-1,091.41	282.48	2,713.71	2,666.64	47.06	57.662				
6,950.00	6,651.44	6,196.63	6,078.02	35.34	29.38	-147.49	-1,099.62	284.36	2,742.36	2,694.97	47.39	57.870				
7,000.00	6,695.79	6,235.59	6,116.10	35.67	29.58	-136.34	-1,107.61	286.19	2,770.87	2,723.17	47.70	58.090				
7,050.00	6,738.87	6,273.20	6,152.88	36.00	29.77	-126.92	-1,115.33	287.96	2,799.09	2,751.09	48.00	58.319				
7,100.00	6,780.32	6,309.20	6,188.07	36.31	29.96	-118.97	-1,122.72	289.65	2,826.87	2,778.59	48.28	58.554				
7,150.00	6,819.85	6,343.30	6,221.41	36.61	30.13	-112.24	-1,129.72	291.26	2,854.08	2,805.53	48.54	58.793				
7,200.00	6,857.14	6,375.25	6,252.64	36.91	30.29	-106.50	-1,136.28	292.76	2,880.60	2,831.81	48.80	59.031				
7,250.00	6,891.92	6,404.80	6,281.52	37.19	30.44	-101.55	-1,142.34	294.15	2,906.34	2,857.30	49.04	59.263				
7,300.00	6,923.92	6,431.72	6,307.85	37.46	30.58	-97.27	-1,147.86	295.42	2,931.19	2,881.91	49.28	59.483				
7,350.00	6,952.90	6,455.82	6,331.40	37.73	30.70	-93.53	-1,152.81	296.55	2,955.06	2,905.55	49.51	59.684				
7,400.00	6,978.63	6,476.91	6,352.01	37.99	30.81	-90.26	-1,157.14	297.54	2,977.87	2,928.12	49.75	59.860				
7,450.00	7,000.93	6,494.82	6,369.53	38.25	30.90	-87.39	-1,160.81	298.38	2,999.53	2,949.55	49.99	60.005				
7,500.00	7,019.61	6,509.43	6,383.80	38.51	30.98	-84.87	-1,163.81	299.07	3,019.97	2,969.73	50.24	60.114				
7,550.00	7,034.55	6,520.61	6,394.74	38.77	31.03	-82.67	-1,166.10	299.60	3,039.10	2,988.61	50.50	60.183				
7,600.00	7,045.61	6,528.29	6,402.25	39.04	31.07	-80.76	-1,167.68	299.96	3,056.85	3,006.08	50.77	60.209				
7,650.00	7,052.73	7,842.96	7,168.00	39.32	35.31	-92.39	-1,335.13	-467.64	3,066.60	3,004.96	61.63	49.754				
7,700.00	7,055.85	7,892.83	7,168.00	39.60	35.71	-92.11	-1,335.54	-517.51	3,067.76	3,004.83	62.92	48.755				
7,713.69	7,056.00	7,906.52	7,168.00	39.68	35.83	-92.09	-1,335.66	-531.20	3,067.81	3,004.52	63.29	48.471				
7,800.00	7,056.00	7,992.83	7,168.00	40.23	36.74	-92.09	-1,336.38	-617.50	3,067.78	3,002.01	65.77	46.645				
7,900.00	7,056.00	8,092.83	7,168.00	41.02	38.06	-92.09	-1,337.21	-717.50	3,067.75	2,998.82	68.93	44.507				
8,000.00	7,056.00	8,192.83	7,168.00	41.97	39.62	-92.09	-1,338.04	-817.50	3,067.71	2,995.36	72.36	42.396				
8,100.00	7,056.00	8,292.83	7,168.00	43.10	41.36	-92.09	-1,338.87	-917.49	3,067.68	2,991.66	76.02	40.352				
8,200.00	7,056.00	8,392.83	7,168.00	44.40	43.24	-92.09	-1,339.71	-1,017.49	3,067.65	2,987.76	79.89	38.397				
8,300.00	7,056.00	8,492.83	7,168.00	45.85	45.22	-92.09	-1,340.54	-1,117.49	3,067.61	2,983.68	83.94	36.547				
8,400.00	7,056.00	8,592.83	7,168.00	47.44	47.29	-92.09	-1,341.37	-1,217.48	3,067.58	2,979.45	88.13	34.807				
8,500.00	7,056.00	8,692.83	7,168.00	49.17	49.43	-92.09	-1,342.21	-1,317.48	3,067.55	2,975.09	92.46	33.178				
8,600.00	7,056.00	8,792.83	7,168.00	51.00	51.63	-92.09	-1,343.04	-1,417.48	3,067.52	2,970.62	96.89	31.658				
8,700.00	7,056.00	8,892.83	7,168.00	52.93	53.89	-92.09	-1,343.87	-1,517.47	3,067.48	2,966.05	101.43	30.242				
8,800.00	7,056.00	8,992.83	7,168.00	54.94	56.18	-92.09	-1,344.70	-1,617.47	3,067.45	2,961.40	106.05	28.924				
8,900.00	7,056.00	9,092.83	7,168.00	57.02	58.52	-92.09	-1,345.54	-1,717.46	3,067.42	2,956.67	110.75	27.697				
9,000.00	7,056.00	9,192.83	7,168.00	59.16	60.89	-92.09	-1,346.37	-1,817.46	3,067.38	2,951.87	115.51	26.555				

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Warning
9,100.00	7,056.00	9,292.83	7,168.00	61.36	63.29	-92.09	-1,347.20	-1,917.46	3,067.35	2,947.02	120.33	25.491	
9,200.00	7,056.00	9,392.83	7,168.00	63.60	65.71	-92.09	-1,348.03	-2,017.45	3,067.32	2,942.12	125.20	24.499	
9,300.00	7,056.00	9,492.83	7,168.00	65.89	68.16	-92.09	-1,348.87	-2,117.45	3,067.29	2,937.17	130.12	23.573	
9,400.00	7,056.00	9,592.83	7,168.00	68.21	70.62	-92.09	-1,349.70	-2,217.45	3,067.25	2,932.18	135.07	22.708	
9,500.00	7,056.00	9,692.83	7,168.00	70.56	73.11	-92.09	-1,350.53	-2,317.44	3,067.22	2,927.16	140.06	21.899	
9,600.00	7,056.00	9,792.83	7,168.00	72.95	75.61	-92.09	-1,351.37	-2,417.44	3,067.19	2,922.10	145.09	21.140	
9,700.00	7,056.00	9,892.83	7,168.00	75.35	78.13	-92.09	-1,352.20	-2,517.44	3,067.15	2,917.01	150.14	20.428	
9,800.00	7,056.00	9,992.83	7,168.00	77.78	80.66	-92.09	-1,353.03	-2,617.43	3,067.12	2,911.90	155.22	19.759	
9,900.00	7,056.00	10,092.83	7,168.00	80.23	83.20	-92.09	-1,353.86	-2,717.43	3,067.09	2,906.76	160.33	19.130	
10,000.00	7,056.00	10,192.83	7,168.00	82.70	85.76	-92.09	-1,354.70	-2,817.43	3,067.06	2,901.60	165.45	18.537	
10,100.00	7,056.00	10,292.83	7,168.00	85.19	88.32	-92.09	-1,355.53	-2,917.42	3,067.02	2,896.43	170.60	17.978	
10,200.00	7,056.00	10,392.83	7,168.00	87.69	90.89	-92.09	-1,356.36	-3,017.42	3,066.99	2,891.23	175.76	17.450	
10,300.00	7,056.00	10,492.83	7,168.00	90.20	93.48	-92.09	-1,357.20	-3,117.42	3,066.96	2,886.02	180.94	16.950	
10,400.00	7,056.00	10,592.83	7,168.00	92.73	96.07	-92.09	-1,358.03	-3,217.41	3,066.92	2,880.79	186.13	16.477	
10,500.00	7,056.00	10,692.83	7,168.00	95.27	98.66	-92.09	-1,358.86	-3,317.41	3,066.89	2,875.55	191.34	16.028	
10,600.00	7,056.00	10,792.83	7,168.00	97.81	101.26	-92.09	-1,359.69	-3,417.41	3,066.86	2,870.30	196.56	15.603	
10,700.00	7,056.00	10,892.83	7,168.00	100.37	103.87	-92.09	-1,360.53	-3,517.40	3,066.82	2,865.03	201.79	15.198	
10,800.00	7,056.00	10,992.83	7,168.00	102.94	106.49	-92.09	-1,361.36	-3,617.40	3,066.79	2,859.76	207.04	14.813	
10,900.00	7,056.00	11,092.83	7,168.00	105.51	109.11	-92.09	-1,362.19	-3,717.40	3,066.76	2,854.47	212.29	14.446	
11,000.00	7,056.00	11,192.83	7,168.00	108.09	111.73	-92.09	-1,363.03	-3,817.39	3,066.73	2,849.18	217.55	14.097	
11,100.00	7,056.00	11,292.83	7,168.00	110.68	114.36	-92.09	-1,363.86	-3,917.39	3,066.69	2,843.87	222.82	13.763	
11,200.00	7,056.00	11,392.83	7,168.00	113.28	117.00	-92.09	-1,364.69	-4,017.38	3,066.66	2,838.56	228.10	13.444	
11,300.00	7,056.00	11,492.83	7,168.00	115.88	119.63	-92.09	-1,365.52	-4,117.38	3,066.63	2,833.24	233.38	13.140	
11,400.00	7,056.00	11,592.83	7,168.00	118.49	122.28	-92.09	-1,366.36	-4,217.38	3,066.59	2,827.92	238.68	12.848	
11,500.00	7,056.00	11,692.83	7,168.00	121.10	124.92	-92.09	-1,367.19	-4,317.37	3,066.56	2,822.58	243.98	12.569	
11,600.00	7,056.00	11,792.83	7,168.00	123.72	127.57	-92.09	-1,368.02	-4,417.37	3,066.53	2,817.25	249.28	12.301	
11,700.00	7,056.00	11,892.83	7,168.00	126.34	130.22	-92.09	-1,368.86	-4,517.37	3,066.50	2,811.90	254.59	12.045	
11,800.00	7,056.00	11,992.83	7,168.00	128.97	132.87	-92.09	-1,369.69	-4,617.36	3,066.46	2,806.55	259.91	11.798	
11,900.00	7,056.00	12,092.83	7,168.00	131.60	135.53	-92.09	-1,370.52	-4,717.36	3,066.43	2,801.20	265.23	11.561	
12,000.00	7,056.00	12,192.83	7,168.00	134.23	138.19	-92.09	-1,371.35	-4,817.36	3,066.40	2,795.84	270.56	11.334	
12,100.00	7,056.00	12,292.83	7,168.00	136.87	140.85	-92.09	-1,372.19	-4,917.35	3,066.36	2,790.47	275.89	11.114	
12,200.00	7,056.00	12,392.83	7,168.00	139.51	143.51	-92.09	-1,373.02	-5,017.35	3,066.33	2,785.11	281.22	10.904	
12,300.00	7,056.00	12,492.83	7,168.00	142.15	146.18	-92.09	-1,373.85	-5,117.35	3,066.30	2,779.73	286.56	10.700	
12,400.00	7,056.00	12,592.83	7,168.00	144.80	148.85	-92.09	-1,374.69	-5,217.34	3,066.27	2,774.36	291.91	10.504	
12,500.00	7,056.00	12,692.83	7,168.00	147.45	151.52	-92.09	-1,375.52	-5,317.34	3,066.23	2,768.98	297.25	10.315	
12,600.00	7,056.00	12,792.83	7,168.00	150.10	154.19	-92.09	-1,376.35	-5,417.34	3,066.20	2,763.60	302.60	10.133	
12,700.00	7,056.00	12,892.83	7,168.00	152.75	156.86	-92.09	-1,377.18	-5,517.33	3,066.17	2,758.21	307.95	9.957	
12,800.00	7,056.00	12,992.83	7,168.00	155.41	159.54	-92.09	-1,378.02	-5,617.33	3,066.13	2,752.82	313.31	9.786	
12,900.00	7,056.00	13,092.83	7,168.00	158.07	162.21	-92.09	-1,378.85	-5,717.33	3,066.10	2,747.43	318.67	9.622	
13,000.00	7,056.00	13,192.83	7,168.00	160.73	164.89	-92.09	-1,379.68	-5,817.32	3,066.07	2,742.04	324.03	9.462	
13,100.00	7,056.00	13,292.83	7,168.00	163.39	167.57	-92.09	-1,380.52	-5,917.32	3,066.03	2,736.64	329.39	9.308	
13,200.00	7,056.00	13,392.83	7,168.00	166.06	170.25	-92.09	-1,381.35	-6,017.32	3,066.00	2,731.24	334.76	9.159	
13,300.00	7,056.00	13,492.83	7,168.00	168.73	172.93	-92.09	-1,382.18	-6,117.31	3,065.97	2,725.84	340.13	9.014	
13,400.00	7,056.00	13,592.83	7,168.00	171.40	175.62	-92.09	-1,383.01	-6,217.31	3,065.94	2,720.43	345.50	8.874	
13,500.00	7,056.00	13,692.83	7,168.00	174.07	178.30	-92.09	-1,383.85	-6,317.30	3,065.90	2,715.03	350.87	8.738	
13,600.00	7,056.00	13,792.83	7,168.00	176.74	180.99	-92.09	-1,384.68	-6,417.30	3,065.87	2,709.62	356.25	8.606	
13,700.00	7,056.00	13,892.83	7,168.00	179.41	183.67	-92.09	-1,385.51	-6,517.30	3,065.84	2,704.21	361.63	8.478	
13,800.00	7,056.00	13,992.83	7,168.00	182.09	186.36	-92.09	-1,386.35	-6,617.29	3,065.80	2,698.80	367.01	8.354	
13,900.00	7,056.00	14,092.83	7,168.00	184.76	189.05	-92.09	-1,387.18	-6,717.29	3,065.77	2,693.38	372.39	8.233	
14,000.00	7,056.00	14,192.83	7,168.00	187.44	191.74	-92.09	-1,388.01	-6,817.29	3,065.74	2,687.97	377.77	8.115	
14,100.00	7,056.00	14,292.83	7,168.00	190.12	194.43	-92.09	-1,388.84	-6,917.28	3,065.71	2,682.55	383.15	8.001	
14,200.00	7,056.00	14,392.83	7,168.00	192.80	197.12	-92.09	-1,389.68	-7,017.28	3,065.67	2,677.13	388.54	7.890	

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Highside		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
14,300.00	7,056.00	14,492.83	7,168.00	195.48	199.81	-92.09	-1,390.51	-7,117.28	3,065.64	2,671.71	393.93	7.782				
14,400.00	7,056.00	14,592.83	7,168.00	198.16	202.50	-92.09	-1,391.34	-7,217.27	3,065.61	2,666.29	399.32	7.677				
14,500.00	7,056.00	14,692.83	7,168.00	200.85	205.20	-92.09	-1,392.18	-7,317.27	3,065.57	2,660.87	404.71	7.575				
14,600.00	7,056.00	14,792.83	7,168.00	203.53	207.89	-92.09	-1,393.01	-7,417.27	3,065.54	2,655.44	410.10	7.475				
14,700.00	7,056.00	14,892.83	7,168.00	206.22	210.59	-92.09	-1,393.84	-7,517.26	3,065.51	2,650.02	415.49	7.378				
14,800.00	7,056.00	14,992.83	7,168.00	208.91	213.28	-92.09	-1,394.67	-7,617.26	3,065.47	2,644.59	420.88	7.283				
14,900.00	7,056.00	15,092.83	7,168.00	211.59	215.98	-92.09	-1,395.51	-7,717.26	3,065.44	2,639.16	426.28	7.191				
15,000.00	7,056.00	15,192.83	7,168.00	214.28	218.68	-92.09	-1,396.34	-7,817.25	3,065.41	2,633.73	431.68	7.101				
15,100.00	7,056.00	15,292.83	7,168.00	216.97	221.37	-92.09	-1,397.17	-7,917.25	3,065.38	2,628.30	437.07	7.013				
15,200.00	7,056.00	15,392.83	7,168.00	219.66	224.07	-92.09	-1,398.01	-8,017.25	3,065.34	2,622.87	442.47	6.928				
15,300.00	7,056.00	15,492.83	7,168.00	222.35	226.77	-92.09	-1,398.84	-8,117.24	3,065.31	2,617.44	447.87	6.844				
15,400.00	7,056.00	15,592.83	7,168.00	225.04	229.47	-92.09	-1,399.67	-8,217.24	3,065.28	2,612.01	453.27	6.763				
15,496.19	7,056.00	15,689.02	7,168.00	227.63	232.07	-92.09	-1,400.47	-8,313.43	3,065.25	2,606.78	458.47	6.686				

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	103.37	-7.28	30.63	31.48						
100.00	100.00	100.00	100.00	0.14	0.14	103.37	-7.28	30.63	31.48	31.20	0.29	109.782			
200.00	200.00	200.00	200.00	0.50	0.50	103.37	-7.28	30.63	31.48	30.48	1.00	31.366			
300.00	300.00	300.00	300.00	0.86	0.86	103.37	-7.28	30.63	31.48	29.76	1.72	18.297			
400.00	400.00	400.00	400.00	1.22	1.22	103.37	-7.28	30.63	31.48	29.05	2.44	12.916	CC, ES		
500.00	500.00	499.31	499.29	1.58	1.56	105.81	-8.86	31.31	32.55	29.41	3.14	10.377			
600.00	600.00	598.38	598.22	1.94	1.90	112.18	-13.59	33.34	36.05	32.22	3.83	9.415	SF		
700.00	700.00	696.98	696.45	2.29	2.24	120.26	-21.41	36.70	42.64	38.11	4.53	9.419			
800.00	800.00	794.87	793.62	2.65	2.61	127.94	-32.24	41.36	52.83	47.61	5.22	10.114			
900.00	900.00	891.85	889.44	3.01	3.00	134.21	-45.98	47.26	66.78	60.86	5.91	11.293			
1,000.00	1,000.00	987.71	983.59	3.37	3.40	138.97	-62.47	54.35	84.42	77.82	6.59	12.803			
1,100.00	1,100.00	1,082.24	1,075.81	3.73	3.84	142.51	-81.56	62.56	105.60	98.34	7.26	14.538			
1,200.00	1,200.00	1,175.29	1,165.86	4.09	4.30	145.14	-103.07	71.81	130.18	122.26	7.92	16.438			
1,300.00	1,300.00	1,268.91	1,255.74	4.45	4.80	147.13	-127.13	82.15	157.71	149.11	8.59	18.349			
1,400.00	1,400.00	1,364.78	1,347.65	4.80	5.33	148.59	-152.18	92.92	185.83	176.52	9.31	19.968			
1,500.00	1,500.00	1,460.65	1,439.57	5.16	5.86	149.67	-177.22	103.68	214.03	204.01	10.02	21.357			
1,600.00	1,600.00	1,556.52	1,531.48	5.52	6.41	150.50	-202.27	114.45	242.29	231.55	10.74	22.559			
1,700.00	1,700.00	1,652.40	1,623.40	5.88	6.97	151.15	-227.31	125.21	270.58	259.12	11.46	23.608			
1,800.00	1,800.00	1,748.27	1,715.31	6.24	7.53	151.68	-252.35	135.98	298.91	286.72	12.19	24.530			
1,900.00	1,900.00	1,844.14	1,807.23	6.60	8.09	152.12	-277.40	146.75	327.25	314.34	12.91	25.347			
2,000.00	2,000.00	1,940.01	1,899.14	6.95	8.66	152.49	-302.44	157.51	355.60	341.96	13.64	26.074			
2,100.00	2,100.00	2,035.89	1,991.06	7.31	9.23	152.80	-327.49	168.28	383.97	369.60	14.37	26.727			
2,200.00	2,200.00	2,131.76	2,082.98	7.67	9.80	153.07	-352.53	179.04	412.35	397.25	15.10	27.314			
2,300.00	2,300.00	2,227.63	2,174.89	8.03	10.37	153.31	-377.57	189.81	440.73	424.90	15.83	27.847			
2,400.00	2,399.98	2,323.03	2,266.35	8.39	10.95	152.65	-402.50	200.52	470.60	454.05	16.56	28.423			
2,500.00	2,499.84	2,417.41	2,356.83	8.75	11.51	152.79	-427.15	211.12	503.44	486.16	17.28	29.130			
2,600.00	2,599.45	2,510.64	2,446.22	9.10	12.07	153.03	-451.50	221.59	539.23	521.23	18.00	29.959			
2,700.00	2,698.70	2,602.63	2,534.41	9.46	12.63	153.32	-475.53	231.92	577.97	559.26	18.71	30.895			
2,800.00	2,797.47	2,693.25	2,621.29	9.82	13.18	153.66	-499.21	242.10	619.63	600.22	19.41	31.926			
2,900.00	2,895.62	2,782.40	2,706.76	10.20	13.72	154.02	-522.49	252.11	664.21	644.11	20.10	33.044			
3,000.00	2,993.06	2,869.97	2,790.71	10.58	14.25	154.38	-545.37	261.94	711.69	690.90	20.79	34.240			
3,100.00	3,089.64	2,955.84	2,873.05	10.98	14.77	154.73	-567.80	271.58	762.02	740.56	21.46	35.506			
3,200.00	3,185.27	3,039.92	2,953.66	11.40	15.28	155.06	-589.76	281.02	815.19	793.06	22.13	36.835			
3,300.00	3,279.82	3,122.11	3,032.45	11.85	15.77	155.36	-611.23	290.25	871.14	848.35	22.79	38.222			
3,400.00	3,373.17	3,202.30	3,109.33	12.32	16.26	155.63	-632.18	299.26	929.82	906.38	23.44	39.662			
3,425.78	3,397.02	3,222.63	3,128.82	12.45	16.38	155.70	-637.49	301.54	945.39	921.77	23.61	40.037			
3,500.00	3,465.59	3,280.98	3,184.76	12.83	16.74	156.31	-652.73	308.09	990.50	966.41	24.09	41.119			
3,600.00	3,557.97	3,359.59	3,260.13	13.35	17.22	157.06	-673.27	316.92	1,051.38	1,026.64	24.73	42.509			
3,700.00	3,650.35	3,438.21	3,335.50	13.89	17.69	157.72	-693.80	325.75	1,112.36	1,086.98	25.38	43.825			
3,800.00	3,742.72	3,516.82	3,410.87	14.45	18.17	158.32	-714.34	334.58	1,173.43	1,147.39	26.03	45.072			
3,900.00	3,835.10	3,595.43	3,486.24	15.03	18.65	158.86	-734.88	343.40	1,234.57	1,207.88	26.69	46.254			
4,000.00	3,927.48	3,674.05	3,561.61	15.61	19.13	159.35	-755.41	352.23	1,295.77	1,268.42	27.35	47.376			
4,100.00	4,019.86	3,752.66	3,636.98	16.21	19.61	159.80	-775.95	361.06	1,357.03	1,329.02	28.01	48.442			
4,200.00	4,112.23	3,831.28	3,712.35	16.82	20.09	160.21	-796.48	369.89	1,418.34	1,389.66	28.68	49.456			
4,300.00	4,204.61	3,909.89	3,787.71	17.44	20.57	160.58	-817.02	378.71	1,479.69	1,450.34	29.35	50.421			
4,400.00	4,296.99	3,988.50	3,863.08	18.06	21.05	160.92	-837.55	387.54	1,541.07	1,511.06	30.02	51.340			
4,500.00	4,389.37	4,067.12	3,938.45	18.69	21.53	161.24	-858.09	396.37	1,602.49	1,571.80	30.69	52.217			
4,600.00	4,481.74	4,145.73	4,013.82	19.33	22.00	161.54	-878.63	405.20	1,663.94	1,632.57	31.36	53.053			
4,700.00	4,574.12	4,224.34	4,089.19	19.98	22.48	161.81	-899.16	414.03	1,725.41	1,693.37	32.04	53.851			
4,800.00	4,666.50	4,302.96	4,164.56	20.63	22.96	162.07	-919.70	422.85	1,786.90	1,754.18	32.72	54.614			
4,900.00	4,758.88	4,381.57	4,239.93	21.29	23.44	162.31	-940.23	431.68	1,848.42	1,815.02	33.40	55.344			
5,000.00	4,851.25	4,460.19	4,315.30	21.95	23.92	162.53	-960.77	440.51	1,909.95	1,875.87	34.08	56.042			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	4,943.63	4,538.80	4,390.67	22.61	24.40	162.74	-981.30	449.34	1,971.50	1,936.74	34.76	56.711			
5,200.00	5,036.01	4,617.41	4,466.03	23.28	24.88	162.93	-1,001.84	458.17	2,033.07	1,997.62	35.45	57.352			
5,300.00	5,128.39	4,696.03	4,541.40	23.95	25.36	163.12	-1,022.38	466.99	2,094.65	2,058.51	36.14	57.967			
5,400.00	5,220.76	4,774.64	4,616.77	24.62	25.84	163.29	-1,042.91	475.82	2,156.24	2,119.42	36.82	58.557			
5,500.00	5,313.14	4,853.25	4,692.14	25.30	26.32	163.46	-1,063.45	484.65	2,217.85	2,180.33	37.51	59.124			
5,600.00	5,405.52	4,931.87	4,767.51	25.98	26.80	163.62	-1,083.98	493.48	2,279.46	2,241.26	38.20	59.668			
5,700.00	5,497.90	5,010.48	4,842.88	26.67	27.28	163.76	-1,104.52	502.30	2,341.09	2,302.19	38.89	60.191			
5,800.00	5,590.28	5,089.10	4,918.25	27.35	27.76	163.90	-1,125.05	511.13	2,402.72	2,363.14	39.59	60.695			
5,900.00	5,682.65	5,167.71	4,993.62	28.04	28.25	164.04	-1,145.59	519.96	2,464.37	2,424.09	40.28	61.180			
6,000.00	5,775.03	5,246.32	5,068.99	28.73	28.73	164.16	-1,166.13	528.79	2,526.02	2,485.04	40.98	61.646			
6,100.00	5,867.41	5,324.94	5,144.35	29.42	29.21	164.29	-1,186.66	537.62	2,587.68	2,546.00	41.67	62.096			
6,200.00	5,959.79	5,403.55	5,219.72	30.11	29.69	164.40	-1,207.20	546.44	2,649.34	2,606.97	42.37	62.530			
6,300.00	6,052.16	5,482.16	5,295.09	30.80	30.17	164.51	-1,227.73	555.27	2,711.01	2,667.95	43.07	62.948			
6,400.00	6,144.54	5,560.78	5,370.46	31.50	30.65	164.62	-1,248.27	564.10	2,772.69	2,728.93	43.77	63.351			
6,500.00	6,236.92	5,639.39	5,445.83	32.20	31.13	164.72	-1,268.80	572.93	2,834.38	2,789.91	44.47	63.741			
6,600.00	6,329.30	5,718.01	5,521.20	32.90	31.61	164.81	-1,289.34	581.75	2,896.06	2,850.90	45.17	64.117			
6,700.00	6,421.67	5,796.62	5,596.57	33.60	32.09	164.90	-1,309.88	590.58	2,957.76	2,911.89	45.87	64.480			
6,800.00	6,514.05	5,875.23	5,671.94	34.30	32.57	164.99	-1,330.41	599.41	3,019.46	2,972.88	46.57	64.832			
6,809.17	6,522.52	5,882.44	5,678.85	34.36	32.61	165.00	-1,332.29	600.22	3,025.11	2,978.47	46.64	64.863			
6,850.00	6,560.22	5,914.36	5,709.45	34.65	32.81	177.96	-1,340.63	603.80	3,050.56	3,003.64	46.92	65.015			
6,900.00	6,606.13	5,952.80	5,746.30	35.00	33.05	-166.86	-1,350.67	608.12	3,082.28	3,035.03	47.25	65.232			
6,950.00	6,651.44	5,990.25	5,782.21	35.34	33.27	-153.15	-1,360.46	612.33	3,114.41	3,066.85	47.56	65.484			
7,000.00	6,695.79	6,026.43	5,816.90	35.67	33.50	-141.18	-1,369.91	616.39	3,146.74	3,098.89	47.85	65.768			
7,050.00	6,738.87	6,061.06	5,850.10	36.00	33.71	-130.88	-1,378.95	620.28	3,179.06	3,130.95	48.11	66.081			
7,100.00	6,780.32	6,093.88	5,881.56	36.31	33.91	-122.02	-1,387.53	623.96	3,211.19	3,162.84	48.35	66.421			
7,150.00	6,819.85	6,124.64	5,911.05	36.61	34.10	-114.35	-1,395.56	627.42	3,242.94	3,194.38	48.56	66.781			
7,200.00	6,857.14	6,153.10	5,938.33	36.91	34.27	-107.69	-1,403.00	630.61	3,274.16	3,225.41	48.75	67.157			

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	125.50	-21.85	30.63	37.62						
100.00	100.00	100.00	100.00	0.14	0.14	125.50	-21.85	30.63	37.62	37.34	0.29	131.196			
200.00	200.00	200.00	200.00	0.50	0.50	125.50	-21.85	30.63	37.62	36.62	1.00	37.484			
300.00	300.00	300.00	300.00	0.86	0.86	125.50	-21.85	30.63	37.62	35.90	1.72	21.866	CC, ES		
400.00	400.00	398.90	398.88	1.22	1.20	126.96	-23.46	31.18	39.04	36.62	2.42	16.132			
500.00	500.00	497.57	497.42	1.58	1.54	130.75	-28.29	32.83	43.42	40.30	3.12	13.938			
600.00	600.00	595.77	595.25	1.94	1.89	135.57	-36.28	35.57	51.03	47.22	3.82	13.374	SF		
700.00	700.00	693.28	692.05	2.29	2.26	140.27	-47.35	39.36	62.08	57.57	4.52	13.750			
800.00	800.00	789.89	787.50	2.65	2.65	144.27	-61.38	44.16	76.64	71.43	5.21	14.712			
900.00	900.00	885.38	881.31	3.01	3.07	147.45	-78.24	49.93	94.67	88.78	5.90	16.057			
1,000.00	1,000.00	979.56	973.21	3.37	3.51	149.92	-97.75	56.61	116.09	109.52	6.57	17.660			
1,100.00	1,100.00	1,072.28	1,062.96	3.73	3.98	151.83	-119.74	64.14	140.79	133.55	7.24	19.442			
1,200.00	1,200.00	1,163.37	1,150.36	4.09	4.48	153.30	-144.01	72.44	168.67	160.78	7.89	21.370			
1,300.00	1,300.00	1,252.69	1,235.23	4.45	5.00	154.44	-170.35	81.46	199.62	191.08	8.54	23.380			
1,400.00	1,400.00	1,342.57	1,319.77	4.80	5.56	155.37	-199.20	91.33	233.36	224.17	9.20	25.373			
1,500.00	1,500.00	1,436.42	1,407.85	5.16	6.16	156.11	-229.86	101.83	267.76	257.85	9.91	27.012			
1,600.00	1,600.00	1,530.27	1,495.92	5.52	6.78	156.68	-260.52	112.32	302.19	291.56	10.63	28.422			
1,700.00	1,700.00	1,624.11	1,584.00	5.88	7.40	157.13	-291.18	122.82	336.64	325.29	11.36	29.646			
1,800.00	1,800.00	1,717.96	1,672.07	6.24	8.03	157.50	-321.84	133.31	371.11	359.03	12.08	30.716			
1,900.00	1,900.00	1,811.81	1,760.15	6.60	8.67	157.81	-352.51	143.81	405.58	392.77	12.81	31.661			
2,000.00	2,000.00	1,905.66	1,848.22	6.95	9.31	158.07	-383.17	154.30	440.07	426.53	13.54	32.499			
2,100.00	2,100.00	1,999.51	1,936.30	7.31	9.95	158.29	-413.83	164.80	474.56	460.29	14.27	33.248			
2,200.00	2,200.00	2,093.36	2,024.38	7.67	10.59	158.48	-444.49	175.29	509.06	494.05	15.01	33.920			
2,300.00	2,300.00	2,187.21	2,112.45	8.03	11.23	158.64	-475.15	185.79	543.56	527.82	15.74	34.528			
2,400.00	2,399.98	2,280.47	2,199.98	8.39	11.88	157.88	-505.62	196.21	579.58	563.10	16.48	35.173			
2,500.00	2,499.84	2,372.48	2,286.33	8.75	12.51	157.89	-535.68	206.50	618.61	601.40	17.21	35.951			
2,600.00	2,599.45	2,463.13	2,371.40	9.10	13.14	157.94	-565.30	216.64	660.61	642.69	17.93	36.851			
2,700.00	2,698.70	2,552.31	2,455.10	9.46	13.76	158.04	-594.43	226.61	705.56	686.93	18.64	37.862			
2,800.00	2,797.47	2,639.91	2,537.31	9.82	14.36	158.16	-623.05	236.41	753.42	734.09	19.33	38.969			
2,900.00	2,895.62	2,725.82	2,617.94	10.20	14.96	158.29	-651.12	246.02	804.15	784.13	20.02	40.165			
3,000.00	2,993.06	2,809.94	2,696.88	10.58	15.54	158.42	-678.60	255.42	857.71	837.01	20.70	41.438			
3,100.00	3,089.64	2,892.17	2,774.05	10.98	16.12	158.54	-705.47	264.62	914.05	892.69	21.37	42.783			
3,200.00	3,185.27	2,972.40	2,849.35	11.40	16.67	158.65	-731.68	273.59	973.12	951.10	22.02	44.192			
3,300.00	3,279.82	3,050.54	2,922.68	11.85	17.22	158.73	-757.21	282.33	1,034.86	1,012.19	22.66	45.659			
3,400.00	3,373.17	3,126.49	2,993.96	12.32	17.75	158.78	-782.02	290.82	1,099.20	1,075.90	23.30	47.182			
3,425.78	3,397.02	3,145.70	3,011.99	12.45	17.88	158.79	-788.30	292.97	1,116.20	1,092.74	23.46	47.576			
3,500.00	3,465.59	3,200.80	3,063.70	12.83	18.27	159.26	-806.30	299.13	1,165.42	1,141.50	23.92	48.720			
3,600.00	3,557.97	3,275.04	3,133.37	13.35	18.78	159.84	-830.56	307.43	1,231.79	1,207.25	24.54	50.191			
3,700.00	3,650.35	3,349.28	3,203.04	13.89	19.30	160.36	-854.81	315.74	1,298.23	1,273.07	25.17	51.582			
3,800.00	3,742.72	3,423.51	3,272.71	14.45	19.82	160.84	-879.06	324.04	1,364.73	1,338.93	25.80	52.900			
3,900.00	3,835.10	3,497.75	3,342.38	15.03	20.34	161.26	-903.32	332.34	1,431.27	1,404.84	26.43	54.150			
4,000.00	3,927.48	3,571.99	3,412.05	15.61	20.86	161.65	-927.57	340.64	1,497.85	1,470.78	27.07	55.336			
4,100.00	4,019.86	3,646.22	3,481.72	16.21	21.38	162.01	-951.82	348.94	1,564.47	1,536.76	27.71	56.462			
4,200.00	4,112.23	3,720.46	3,551.39	16.82	21.89	162.34	-976.08	357.24	1,631.12	1,602.77	28.35	57.534			
4,300.00	4,204.61	3,794.69	3,621.06	17.44	22.41	162.64	-1,000.33	365.55	1,697.79	1,668.80	29.00	58.553			
4,400.00	4,296.99	3,868.93	3,690.73	18.06	22.93	162.92	-1,024.59	373.85	1,764.50	1,734.85	29.64	59.524			
4,500.00	4,389.37	3,943.17	3,760.40	18.69	23.45	163.18	-1,048.84	382.15	1,831.22	1,800.93	30.29	60.450			
4,600.00	4,481.74	4,017.40	3,830.07	19.33	23.97	163.42	-1,073.09	390.45	1,897.96	1,867.02	30.94	61.333			
4,700.00	4,574.12	4,091.64	3,899.74	19.98	24.49	163.65	-1,097.35	398.75	1,964.72	1,933.12	31.60	62.177			
4,800.00	4,666.50	4,165.88	3,969.41	20.63	25.01	163.86	-1,121.60	407.05	2,031.50	1,999.24	32.25	62.983			
4,900.00	4,758.88	4,240.11	4,039.08	21.29	25.53	164.05	-1,145.85	415.36	2,098.29	2,065.37	32.91	63.753			
5,000.00	4,851.25	4,314.35	4,108.75	21.95	26.05	164.24	-1,170.11	423.66	2,165.09	2,131.52	33.57	64.491			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Highside		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,100.00	4,943.63	4,388.59	4,178.42	22.61	26.57	164.41	-1,194.36	431.96	2,231.90	2,197.67	34.23	65.197				
5,200.00	5,036.01	4,462.82	4,248.09	23.28	27.09	164.58	-1,218.61	440.26	2,298.73	2,263.83	34.90	65.873				
5,300.00	5,128.39	4,537.06	4,317.76	23.95	27.61	164.73	-1,242.87	448.56	2,365.56	2,330.00	35.56	66.522				
5,400.00	5,220.76	4,611.29	4,387.43	24.62	28.13	164.88	-1,267.12	456.86	2,432.41	2,396.18	36.23	67.145				
5,500.00	5,313.14	4,685.53	4,457.10	25.30	28.65	165.01	-1,291.38	465.16	2,499.26	2,462.37	36.89	67.742				
5,600.00	5,405.52	4,759.77	4,526.76	25.98	29.17	165.15	-1,315.63	473.47	2,566.12	2,528.56	37.56	68.316				
5,700.00	5,497.90	4,834.00	4,596.43	26.67	29.69	165.27	-1,339.88	481.77	2,632.99	2,594.76	38.23	68.868				
5,800.00	5,590.28	4,908.24	4,666.10	27.35	30.21	165.39	-1,364.14	490.07	2,699.86	2,660.96	38.90	69.399				
5,900.00	5,682.65	4,982.48	4,735.77	28.04	30.73	165.50	-1,388.39	498.37	2,766.74	2,727.17	39.58	69.909				
6,000.00	5,775.03	5,056.71	4,805.44	28.73	31.25	165.61	-1,412.64	506.67	2,833.63	2,793.38	40.25	70.401				
6,100.00	5,867.41	5,130.95	4,875.11	29.42	31.77	165.71	-1,436.90	514.97	2,900.52	2,859.59	40.92	70.874				
6,200.00	5,959.79	5,205.19	4,944.78	30.11	32.29	165.81	-1,461.15	523.28	2,967.42	2,925.81	41.60	71.330				
6,300.00	6,052.16	5,279.42	5,014.45	30.80	32.81	165.90	-1,485.41	531.58	3,034.32	2,992.04	42.28	71.770				
6,400.00	6,144.54	5,353.66	5,084.12	31.50	33.33	165.99	-1,509.66	539.88	3,101.22	3,058.26	42.96	72.194				
6,500.00	6,236.92	5,427.89	5,153.79	32.20	33.85	166.08	-1,533.91	548.18	3,168.13	3,124.49	43.64	72.603				
6,600.00	6,329.30	5,502.13	5,223.46	32.90	34.38	166.16	-1,558.17	556.48	3,235.04	3,190.73	44.32	72.998				

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD										Rule Assigned:			Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	0.01	18.22	0.00	18.22	17.93	0.29	63.530		
100.00	100.00	100.00	100.00	0.14	0.14	0.01	18.22	0.00	18.22	17.22	1.00	18.151		
200.00	200.00	200.00	200.00	0.50	0.50	0.01	18.22	0.00	18.22	16.50	1.72	10.588		
300.00	300.00	300.00	300.00	1.22	1.22	0.01	18.22	0.00	18.22	15.78	2.44	7.474		
400.00	400.00	400.00	400.00	1.58	1.58	0.01	18.22	0.00	18.22	15.06	3.15	5.775		
500.00	500.00	500.00	500.00	1.94	1.94	0.01	18.22	0.00	18.22	14.35	3.87	4.706		
600.00	600.00	600.00	600.00	2.29	2.29	0.01	18.22	0.00	18.22	13.63	4.59	3.971		
700.00	700.00	700.00	700.00	2.65	2.65	0.01	18.22	0.00	18.22	12.91	5.31	3.434		
800.00	800.00	800.00	800.00	3.01	3.01	0.01	18.22	0.00	18.22	12.20	6.02	3.025		
900.00	900.00	900.00	900.00	3.37	3.37	0.01	18.22	0.00	18.22	11.48	6.74	2.703		
1,000.00	1,000.00	1,000.00	1,000.00	3.73	3.73	0.01	18.22	0.00	18.22	10.76	7.46	2.443		
1,100.00	1,100.00	1,100.00	1,100.00	4.09	4.09	0.01	18.22	0.00	18.22	10.05	8.17	2.229		
1,200.00	1,200.00	1,200.00	1,200.00	4.45	4.45	0.01	18.22	0.00	18.22	9.33	8.89	2.049		
1,300.00	1,300.00	1,300.00	1,300.00	4.80	4.80	0.01	18.22	0.00	18.22	8.61	9.61	1.896		
1,400.00	1,400.00	1,400.00	1,400.00	5.16	5.16	0.01	18.22	0.00	18.22	7.90	10.32	1.765		
1,500.00	1,500.00	1,500.00	1,500.00	5.52	5.52	0.01	18.22	0.00	18.22	7.18	11.04	1.650		
1,600.00	1,600.00	1,600.00	1,600.00	5.88	5.88	0.01	18.22	0.00	18.22	6.46	11.76	1.550		
1,700.00	1,700.00	1,700.00	1,700.00	6.24	6.24	0.01	18.22	0.00	18.22	5.74	12.47	1.460	Level 3	
1,800.00	1,800.00	1,800.00	1,800.00	6.60	6.60	0.01	18.22	0.00	18.22	5.03	13.19	1.381	Level 3	
1,900.00	1,900.00	1,900.00	1,900.00	6.95	6.95	0.01	18.22	0.00	18.22	4.31	13.91	1.310	Level 3	
2,000.00	2,000.00	2,000.00	2,000.00	7.31	7.31	0.01	18.22	0.00	18.22	3.59	14.63	1.246	Level 3	
2,100.00	2,100.00	2,100.00	2,100.00	7.67	7.67	0.01	18.22	0.00	18.22	2.88	15.34	1.187	Level 3, CC, ES	
2,200.00	2,200.00	2,200.00	2,200.00	8.03	8.03	0.07	19.94	0.02	19.95	3.90	16.05	1.243	Level 3	
2,300.00	2,300.00	2,299.33	2,299.31	8.39	8.38	-0.51	25.09	0.09	23.41	6.67	16.74	1.398	Level 3	
2,400.00	2,399.98	2,398.52	2,398.36	8.75	8.74	-0.42	33.66	0.21	26.83	9.42	17.41	1.541		
2,500.00	2,499.84	2,497.59	2,497.06	9.10	9.09	-0.34	45.62	0.37	30.22	12.16	18.06	1.673		
2,600.00	2,599.45	2,596.55	2,595.28	9.46	9.45	-0.26	60.94	0.57	33.56	14.88	18.68	1.796		
2,700.00	2,698.70	2,695.39	2,692.93	9.82	9.82	-0.20	79.60	0.82	36.87	17.58	19.29	1.911		
2,800.00	2,797.47	2,794.12	2,789.87	10.20	10.20	-0.14	101.56	1.12	40.13	20.25	19.88	2.018		
2,900.00	2,895.62	2,892.74	2,886.01	10.58	10.59	-0.08	126.79	1.46	43.34	22.89	20.45	2.119		
3,000.00	2,993.06	2,991.26	2,981.24	10.98	11.01	-0.02	155.24	1.84	46.50	25.50	21.01	2.214		
3,100.00	3,089.64	3,089.66	3,075.43	11.40	11.45	0.04	186.88	2.27	49.60	28.06	21.54	2.303		
3,200.00	3,185.27	3,187.97	3,168.50	11.85	11.92	0.09	221.65	2.73	52.64	30.58	22.06	2.386		
3,300.00	3,279.82	3,286.17	3,260.33	12.32	12.41	0.14	259.51	3.24	55.62	33.05	22.57	2.464		
3,400.00	3,373.17	3,384.27	3,350.83	12.45	12.55	0.16	269.77	3.38	56.37	33.68	22.69	2.484		
3,425.78	3,397.02	3,409.54	3,373.92	12.83	12.95	0.19	300.39	3.79	59.48	36.42	23.06	2.580		
3,500.00	3,465.59	3,482.23	3,439.85	13.35	13.52	0.23	344.03	4.38	65.69	41.94	23.75	2.766		
3,600.00	3,557.97	3,581.52	3,529.03	13.89	14.12	0.26	387.98	4.97	72.00	47.48	24.52	2.936		
3,700.00	3,650.35	3,681.33	3,618.63	14.45	14.74	0.29	431.94	5.56	78.31	53.01	25.30	3.095		
3,800.00	3,742.72	3,781.13	3,708.23	15.03	15.37	0.31	475.89	6.15	84.62	58.53	26.09	3.243		
3,900.00	3,835.10	3,880.93	3,797.83	15.61	16.03	0.33	519.85	6.74	90.94	64.04	26.89	3.381		
4,000.00	3,927.48	3,980.73	3,887.42	16.21	16.69	0.35	563.81	7.33	97.25	69.55	27.70	3.511		
4,100.00	4,019.86	4,080.53	3,977.02	16.82	17.37	0.36	607.76	7.92	103.56	75.05	28.51	3.632		
4,200.00	4,112.23	4,180.33	4,066.62	17.44	18.06	0.38	651.72	8.51	109.87	80.54	29.33	3.746		
4,300.00	4,204.61	4,280.13	4,156.22	18.06	18.76	0.39	695.67	9.10	116.18	86.03	30.16	3.852		
4,400.00	4,296.99	4,379.93	4,245.81	18.69	19.47	0.40	739.63	9.69	122.50	91.51	30.99	3.953		
4,500.00	4,389.37	4,479.73	4,335.41	19.33	20.19	0.41	783.59	10.28	128.81	96.98	31.83	4.047		
4,600.00	4,481.74	4,579.53	4,425.01	19.98	20.91	0.42	827.54	10.88	135.12	102.45	32.67	4.136		
4,700.00	4,574.12	4,679.33	4,514.60	20.63	21.64	0.42	871.50	11.47	141.43	107.92	33.52	4.220		
4,800.00	4,666.50	4,779.13	4,604.20	21.29	22.38	0.43	915.45	12.06	147.75	113.38	34.37	4.299		
4,900.00	4,758.88	4,878.93	4,693.80	21.95	23.12	0.44	959.41	12.65	154.06	118.84	35.22	4.374		
5,000.00	4,851.25	4,978.73	4,783.40											

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD										Rule Assigned:			Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,943.63	5,078.53	4,872.99	22.61	23.86	0.44	1,003.37	13.24	160.37	124.29	36.08	4.445		
5,200.00	5,036.01	5,178.33	4,962.59	23.28	24.61	0.45	1,047.32	13.83	166.68	129.75	36.94	4.513		
5,300.00	5,128.39	5,278.13	5,052.19	23.95	25.36	0.45	1,091.28	14.42	172.99	135.20	37.80	4.577		
5,400.00	5,220.76	5,377.94	5,141.79	24.62	26.12	0.46	1,135.23	15.01	179.31	140.64	38.66	4.637		
5,500.00	5,313.14	5,477.74	5,231.38	25.30	26.88	0.46	1,179.19	15.60	185.62	146.09	39.53	4.695		
5,600.00	5,405.52	5,577.54	5,320.98	25.98	27.64	0.47	1,223.15	16.19	191.93	151.53	40.40	4.750		
5,700.00	5,497.90	5,677.34	5,410.58	26.67	28.41	0.47	1,267.10	16.78	198.24	156.97	41.28	4.803		
5,800.00	5,590.28	5,777.14	5,500.18	27.35	29.17	0.48	1,311.06	17.37	204.56	162.40	42.15	4.853		
5,900.00	5,682.65	5,876.94	5,589.77	28.04	29.94	0.48	1,355.01	17.96	210.87	167.84	43.03	4.900		
6,000.00	5,775.03	5,976.74	5,679.37	28.73	30.72	0.48	1,398.97	18.55	217.18	173.27	43.91	4.946		
6,100.00	5,867.41	6,076.54	5,768.97	29.42	31.49	0.49	1,442.93	19.14	223.49	178.70	44.79	4.990		
6,200.00	5,959.79	6,176.34	5,858.56	30.11	32.27	0.49	1,486.88	19.73	229.80	184.13	45.67	5.031		
6,300.00	6,052.16	6,276.14	5,948.16	30.80	33.04	0.49	1,530.84	20.33	236.12	189.56	46.56	5.071		
6,400.00	6,144.54	6,375.94	6,037.76	31.50	33.82	0.49	1,574.79	20.92	242.43	194.99	47.44	5.110		
6,500.00	6,236.92	6,475.74	6,127.36	32.20	34.60	0.50	1,618.75	21.51	248.74	200.41	48.33	5.147		
6,600.00	6,329.30	6,575.54	6,216.95	32.90	35.39	0.50	1,662.71	22.10	255.05	205.83	49.22	5.182		
6,700.00	6,421.67	6,675.34	6,306.55	33.60	36.17	0.50	1,706.66	22.69	261.37	211.26	50.11	5.216		
6,800.00	6,514.05	6,775.14	6,396.15	34.30	36.96	0.50	1,750.62	23.28	267.68	216.68	51.00	5.249		
6,809.17	6,522.52	6,784.29	6,404.36	34.36	37.03	0.50	1,754.65	23.33	268.26	217.17	51.08	5.251		
6,850.00	6,560.22	6,825.01	6,440.91	34.65	37.35	10.33	1,772.58	23.57	270.88	219.43	51.45	5.265		
6,900.00	6,606.13	6,874.55	6,485.39	35.00	37.74	22.39	1,794.40	23.87	274.26	222.33	51.93	5.283		
6,950.00	6,651.44	6,923.40	6,529.25	35.34	38.12	33.75	1,815.92	24.16	278.07	225.59	52.48	5.299		
7,000.00	6,695.79	6,971.18	6,572.15	35.67	38.50	44.02	1,836.96	24.44	282.71	229.51	53.20	5.314		
7,050.00	6,738.87	7,017.54	6,613.76	36.00	38.87	53.18	1,857.38	24.71	288.74	234.55	54.19	5.329		
7,100.00	6,780.32	7,062.11	6,653.77	36.31	39.22	61.27	1,877.01	24.98	296.77	241.24	55.53	5.345		
7,150.00	6,819.85	7,104.55	6,691.88	36.61	39.55	68.33	1,895.70	25.23	307.43	250.17	57.26	5.369		
7,200.00	6,857.14	7,144.56	6,727.79	36.91	39.87	74.38	1,913.32	25.46	321.30	261.93	59.37	5.412		
7,250.00	6,891.92	7,192.32	6,770.66	37.19	40.25	80.45	1,934.34	24.64	338.40	276.48	61.92	5.465		
7,300.00	6,923.92	7,248.49	6,820.81	37.46	40.69	86.33	1,958.89	18.73	357.46	293.01	64.44	5.547		
7,350.00	6,952.90	7,310.57	6,875.35	37.73	41.17	91.70	1,985.54	5.89	377.81	311.30	66.51	5.680		
7,400.00	6,978.63	7,380.16	6,934.63	37.99	41.69	96.66	2,014.43	-16.22	398.80	330.95	67.84	5.878		
7,450.00	7,000.93	7,459.29	6,998.57	38.25	42.25	101.26	2,045.51	-50.84	419.64	351.50	68.14	6.159		
7,500.00	7,019.61	7,550.33	7,066.04	38.51	42.86	105.47	2,078.18	-102.32	439.41	372.35	67.06	6.552		
7,550.00	7,034.55	7,655.58	7,133.83	38.77	43.50	109.19	2,110.81	-175.71	456.96	392.59	64.36	7.100		
7,600.00	7,045.61	7,776.29	7,195.29	39.04	44.17	112.16	2,140.13	-275.10	470.94	410.82	60.13	7.832		
7,650.00	7,052.73	7,887.68	7,233.99	39.32	44.74	113.77	2,158.25	-377.75	479.85	423.13	56.72	8.460		
7,700.00	7,055.85	8,054.09	7,257.95	39.60	45.53	114.74	2,168.63	-541.44	482.90	431.29	51.61	9.356		
7,713.49	7,056.00	8,072.85	7,258.00	39.68	45.62	114.73	2,168.50	-560.20	482.80	431.07	51.72	9.334		
7,713.69	7,056.00	8,073.05	7,258.00	39.68	45.62	114.73	2,168.50	-560.41	482.80	431.07	51.73	9.333		
7,800.00	7,056.00	8,159.36	7,258.00	40.23	46.06	114.73	2,167.77	-646.71	482.82	429.10	53.72	8.987		
7,900.00	7,056.00	8,259.36	7,258.00	41.02	46.69	114.73	2,166.94	-746.71	482.85	426.51	56.34	8.570		
8,000.00	7,056.00	8,359.36	7,258.00	41.97	47.44	114.73	2,166.10	-846.70	482.87	423.61	59.26	8.149		
8,100.00	7,056.00	8,459.36	7,258.00	43.10	48.34	114.73	2,165.26	-946.70	482.90	420.46	62.44	7.734		
8,200.00	7,056.00	8,559.36	7,258.00	44.40	49.38	114.73	2,164.42	-1,046.70	482.92	417.08	65.85	7.334		
8,300.00	7,056.00	8,659.36	7,258.00	45.85	50.57	114.73	2,163.58	-1,146.69	482.95	413.51	69.44	6.955		
8,400.00	7,056.00	8,759.36	7,258.00	47.44	51.89	114.72	2,162.75	-1,246.69	482.97	409.77	73.20	6.598		
8,500.00	7,056.00	8,859.36	7,258.00	49.17	53.36	114.72	2,161.91	-1,346.69	483.00	405.90	77.10	6.265		
8,600.00	7,056.00	8,959.36	7,258.00	51.00	54.95	114.72	2,161.07	-1,446.68	483.02	401.91	81.12	5.955		
8,700.00	7,056.00	9,059.36	7,258.00	52.93	56.65	114.72	2,160.23	-1,546.68	483.05	397.81	85.24	5.667		
8,800.00	7,056.00	9,159.36	7,258.00	54.94	58.45	114.72	2,159.39	-1,646.68	483.07	393.63	89.45	5.401		
8,900.00	7,056.00	9,259.36	7,258.00	57.02	60.34	114.72	2,158.55	-1,746.67	483.10	389.37	93.73	5.154		
9,000.00	7,056.00	9,359.36	7,258.00	59.16	62.32	114.72	2,157.72	-1,846.67	483.12	385.04	98.08	4.926		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
9,100.00	7,056.00	9,459.36	7,258.00	61.36	64.36	114.71	2,156.88	-1,946.67	483.15	380.66	102.49	4.714				
9,200.00	7,056.00	9,559.36	7,258.00	63.60	66.46	114.71	2,156.04	-2,046.66	483.17	376.23	106.95	4.518				
9,300.00	7,056.00	9,659.36	7,258.00	65.89	68.62	114.71	2,155.20	-2,146.66	483.20	371.75	111.45	4.336				
9,400.00	7,056.00	9,759.36	7,258.00	68.21	70.83	114.71	2,154.36	-2,246.65	483.22	367.23	116.00	4.166				
9,500.00	7,056.00	9,859.36	7,258.00	70.56	73.07	114.71	2,153.53	-2,346.65	483.25	362.68	120.57	4.008				
9,600.00	7,056.00	9,959.36	7,258.00	72.95	75.36	114.71	2,152.69	-2,446.65	483.28	358.09	125.18	3.861				
9,700.00	7,056.00	10,059.36	7,258.00	75.35	77.68	114.71	2,151.85	-2,546.64	483.30	353.48	129.82	3.723				
9,800.00	7,056.00	10,159.36	7,258.00	77.78	80.02	114.70	2,151.01	-2,646.64	483.33	348.84	134.48	3.594				
9,900.00	7,056.00	10,259.36	7,258.00	80.23	82.40	114.70	2,150.17	-2,746.64	483.35	344.18	139.17	3.473				
10,000.00	7,056.00	10,359.36	7,258.00	82.70	84.80	114.70	2,149.33	-2,846.63	483.38	339.50	143.87	3.360				
10,100.00	7,056.00	10,459.36	7,258.00	85.19	87.22	114.70	2,148.50	-2,946.63	483.40	334.80	148.60	3.253				
10,200.00	7,056.00	10,559.36	7,258.00	87.69	89.66	114.70	2,147.66	-3,046.63	483.43	330.09	153.34	3.153				
10,300.00	7,056.00	10,659.36	7,258.00	90.20	92.11	114.70	2,146.82	-3,146.62	483.45	325.36	158.09	3.058				
10,400.00	7,056.00	10,759.36	7,258.00	92.73	94.59	114.70	2,145.98	-3,246.62	483.48	320.62	162.86	2.969				
10,500.00	7,056.00	10,859.36	7,258.00	95.27	97.07	114.69	2,145.14	-3,346.62	483.50	315.86	167.64	2.884				
10,600.00	7,056.00	10,959.36	7,258.00	97.81	99.58	114.69	2,144.31	-3,446.61	483.53	311.09	172.44	2.804				
10,700.00	7,056.00	11,059.36	7,258.00	100.37	102.09	114.69	2,143.47	-3,546.61	483.55	306.31	177.24	2.728				
10,800.00	7,056.00	11,159.36	7,258.00	102.94	104.61	114.69	2,142.63	-3,646.61	483.58	301.52	182.05	2.656				
10,900.00	7,056.00	11,259.36	7,258.00	105.51	107.15	114.69	2,141.79	-3,746.60	483.60	296.72	186.88	2.588				
11,000.00	7,056.00	11,359.36	7,258.00	108.09	109.69	114.69	2,140.95	-3,846.60	483.63	291.92	191.71	2.523				
11,100.00	7,056.00	11,459.36	7,258.00	110.68	112.25	114.69	2,140.11	-3,946.60	483.65	287.10	196.55	2.461				
11,200.00	7,056.00	11,559.36	7,258.00	113.28	114.81	114.69	2,139.28	-4,046.59	483.68	282.28	201.40	2.402				
11,300.00	7,056.00	11,659.36	7,258.00	115.88	117.38	114.68	2,138.44	-4,146.59	483.70	277.45	206.25	2.345				
11,400.00	7,056.00	11,759.36	7,258.00	118.49	119.96	114.68	2,137.60	-4,246.58	483.73	272.62	211.11	2.291				
11,500.00	7,056.00	11,859.36	7,258.00	121.10	122.54	114.68	2,136.76	-4,346.58	483.75	267.78	215.98	2.240				
11,600.00	7,056.00	11,959.36	7,258.00	123.72	125.13	114.68	2,135.92	-4,446.58	483.78	262.93	220.85	2.191				
11,700.00	7,056.00	12,059.36	7,258.00	126.34	127.73	114.68	2,135.09	-4,546.57	483.80	258.08	225.72	2.143				
11,800.00	7,056.00	12,159.36	7,258.00	128.97	130.33	114.68	2,134.25	-4,646.57	483.83	253.22	230.60	2.098				
11,900.00	7,056.00	12,259.36	7,258.00	131.60	132.93	114.68	2,133.41	-4,746.57	483.85	248.36	235.49	2.055				
12,000.00	7,056.00	12,359.36	7,258.00	134.23	135.54	114.67	2,132.57	-4,846.56	483.88	243.50	240.38	2.013				
12,100.00	7,056.00	12,459.36	7,258.00	136.87	138.16	114.67	2,131.73	-4,946.56	483.90	238.63	245.27	1.973				
12,200.00	7,056.00	12,559.36	7,258.00	139.51	140.78	114.67	2,130.90	-5,046.56	483.93	233.75	250.17	1.934				
12,300.00	7,056.00	12,659.36	7,258.00	142.15	143.40	114.67	2,130.06	-5,146.55	483.95	228.88	255.07	1.897				
12,400.00	7,056.00	12,759.36	7,258.00	144.80	146.03	114.67	2,129.22	-5,246.55	483.98	224.00	259.98	1.862				
12,500.00	7,056.00	12,859.36	7,258.00	147.45	148.66	114.67	2,128.38	-5,346.55	484.00	219.12	264.89	1.827				
12,600.00	7,056.00	12,959.36	7,258.00	150.10	151.30	114.67	2,127.54	-5,446.54	484.03	214.23	269.80	1.794				
12,700.00	7,056.00	13,059.36	7,258.00	152.75	153.93	114.66	2,126.70	-5,546.54	484.05	209.34	274.71	1.762				
12,800.00	7,056.00	13,159.36	7,258.00	155.41	156.57	114.66	2,125.87	-5,646.54	484.08	204.45	279.63	1.731				
12,900.00	7,056.00	13,259.36	7,258.00	158.07	159.22	114.66	2,125.03	-5,746.53	484.10	199.56	284.55	1.701				
13,000.00	7,056.00	13,359.36	7,258.00	160.73	161.86	114.66	2,124.19	-5,846.53	484.13	194.66	289.47	1.672				
13,100.00	7,056.00	13,459.36	7,258.00	163.39	164.51	114.66	2,123.35	-5,946.52	484.15	189.76	294.39	1.645				
13,200.00	7,056.00	13,559.36	7,258.00	166.06	167.16	114.66	2,122.51	-6,046.52	484.18	184.86	299.32	1.618				
13,300.00	7,056.00	13,659.36	7,258.00	168.73	169.81	114.66	2,121.68	-6,146.52	484.20	179.96	304.25	1.591				
13,400.00	7,056.00	13,759.36	7,258.00	171.40	172.47	114.66	2,120.84	-6,246.51	484.23	175.05	309.18	1.566				
13,500.00	7,056.00	13,859.36	7,258.00	174.07	175.13	114.65	2,120.00	-6,346.51	484.25	170.14	314.11	1.542				
13,600.00	7,056.00	13,959.36	7,258.00	176.74	177.79	114.65	2,119.16	-6,446.51	484.28	165.23	319.05	1.518				
13,700.00	7,056.00	14,059.36	7,258.00	179.41	180.45	114.65	2,118.32	-6,546.50	484.30	160.32	323.98	1.495 Level 3				
13,800.00	7,056.00	14,159.36	7,258.00	182.09	183.11	114.65	2,117.48	-6,646.50	484.33	155.41	328.92	1.472 Level 3				
13,900.00	7,056.00	14,259.36	7,258.00	184.76	185.78	114.65	2,116.65	-6,746.50	484.35	150.50	333.86	1.451 Level 3				
14,000.00	7,056.00	14,359.36	7,258.00	187.44	188.44	114.65	2,115.81	-6,846.49	484.38	145.58	338.80	1.430 Level 3				
14,100.00	7,056.00	14,459.36	7,258.00	190.12	191.11	114.65	2,114.97	-6,946.49	484.40	140.66	343.74	1.409 Level 3				
14,200.00	7,056.00	14,559.36	7,258.00	192.80	193.78	114.64	2,114.13	-7,046.49	484.43	135.74	348.69	1.389 Level 3				

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,300.00	7,056.00	14,659.36	7,258.00	195.48	196.45	114.64	2,113.29	-7,146.48	484.45	130.82	353.63	1.370	Level 3
14,400.00	7,056.00	14,759.36	7,258.00	198.16	199.12	114.64	2,112.46	-7,246.48	484.48	125.90	358.58	1.351	Level 3
14,500.00	7,056.00	14,859.36	7,258.00	200.85	201.80	114.64	2,111.62	-7,346.48	484.50	120.98	363.53	1.333	Level 3
14,600.00	7,056.00	14,959.36	7,258.00	203.53	204.47	114.64	2,110.78	-7,446.47	484.53	116.06	368.47	1.315	Level 3
14,700.00	7,056.00	15,059.36	7,258.00	206.22	207.15	114.64	2,109.94	-7,546.47	484.55	111.13	373.42	1.298	Level 3
14,800.00	7,056.00	15,159.36	7,258.00	208.91	209.83	114.64	2,109.10	-7,646.47	484.58	106.20	378.38	1.281	Level 3
14,900.00	7,056.00	15,259.36	7,258.00	211.59	212.51	114.63	2,108.26	-7,746.46	484.61	101.28	383.33	1.264	Level 3
15,000.00	7,056.00	15,359.36	7,258.00	214.28	215.19	114.63	2,107.43	-7,846.46	484.63	96.35	388.28	1.248	Level 3
15,100.00	7,056.00	15,459.36	7,258.00	216.97	217.87	114.63	2,106.59	-7,946.45	484.66	91.42	393.24	1.232	Level 3
15,200.00	7,056.00	15,559.36	7,258.00	219.66	220.55	114.63	2,105.75	-8,046.45	484.68	86.49	398.19	1.217	Level 3
15,300.00	7,056.00	15,659.36	7,258.00	222.35	223.23	114.63	2,104.91	-8,146.45	484.71	81.56	403.15	1.202	Level 3
15,400.00	7,056.00	15,759.36	7,258.00	225.04	225.92	114.63	2,104.07	-8,246.44	484.73	76.62	408.11	1.188	Level 3
15,403.00	7,056.00	15,762.36	7,258.00	225.12	226.00	114.63	2,104.05	-8,249.44	484.73	76.48	408.25	1.187	Level 3
15,496.19	7,056.00	15,837.79	7,258.00	227.63	228.02	114.63	2,103.42	-8,324.87	485.08	71.42	413.66	1.173	Level 3, SF

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD										Rule Assigned:		Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-14.57	0.00	14.57				
100.00	100.00	100.00	100.00	0.14	0.14	-180.00	-14.57	0.00	14.57	14.28	0.29	50.798	
200.00	200.00	200.00	200.00	0.50	0.50	-180.00	-14.57	0.00	14.57	13.56	1.00	14.514	
300.00	300.00	300.00	300.00	0.86	0.86	-180.00	-14.57	0.00	14.57	12.85	1.72	8.466	
400.00	400.00	400.00	400.00	1.22	1.22	-180.00	-14.57	0.00	14.57	12.13	2.44	5.976	
500.00	500.00	500.00	500.00	1.58	1.58	-180.00	-14.57	0.00	14.57	11.41	3.15	4.618	
600.00	600.00	600.00	600.00	1.94	1.94	-180.00	-14.57	0.00	14.57	10.70	3.87	3.763	
700.00	700.00	700.00	700.00	2.29	2.29	-180.00	-14.57	0.00	14.57	9.98	4.59	3.175	
800.00	800.00	800.00	800.00	2.65	2.65	-180.00	-14.57	0.00	14.57	9.26	5.31	2.746	
900.00	900.00	900.00	900.00	3.01	3.01	-180.00	-14.57	0.00	14.57	8.55	6.02	2.419	
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	-180.00	-14.57	0.00	14.57	7.83	6.74	2.162	
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	-180.00	-14.57	0.00	14.57	7.11	7.46	1.954	
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	-180.00	-14.57	0.00	14.57	6.39	8.17	1.782	
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	-180.00	-14.57	0.00	14.57	5.68	8.89	1.639	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	-180.00	-14.57	0.00	14.57	4.96	9.61	1.516	
1,500.00	1,500.00	1,500.00	1,500.00	5.16	5.16	-180.00	-14.57	0.00	14.57	4.24	10.32	1.411 Level 3	
1,600.00	1,600.00	1,600.00	1,600.00	5.52	5.52	-180.00	-14.57	0.00	14.57	3.53	11.04	1.319 Level 3	
1,700.00	1,700.00	1,700.00	1,700.00	5.88	5.88	-180.00	-14.57	0.00	14.57	2.81	11.76	1.239 Level 3	
1,800.00	1,800.00	1,800.00	1,800.00	6.24	6.24	-180.00	-14.57	0.00	14.57	2.09	12.47	1.168 Level 3	
1,900.00	1,900.00	1,900.00	1,900.00	6.60	6.60	-180.00	-14.57	0.00	14.57	1.38	13.19	1.104 Level 3	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-180.00	-14.57	0.00	14.57	0.66	13.91	1.047 Level 3	
2,100.00	2,100.00	2,100.00	2,100.00	7.31	7.31	-180.00	-14.57	0.00	14.57	-0.06	14.63	0.996 Level 3	
2,200.00	2,200.00	2,200.00	2,200.00	7.67	7.67	-180.00	-14.57	0.00	14.57	-0.77	15.34	0.950 Level 3	
2,300.00	2,300.00	2,300.00	2,300.00	8.03	8.03	-180.00	-14.57	0.00	14.57	-1.49	16.06	0.907 Level 3, CC, ES, SF	
2,400.00	2,399.98	2,399.98	2,399.98	8.39	8.39	179.39	-14.57	0.00	16.31	-0.46	16.78	0.972 Level 3	
2,500.00	2,499.84	2,500.55	2,500.53	8.75	8.75	179.50	-12.80	0.02	19.79	2.31	17.49	1.132 Level 3	
2,600.00	2,599.45	2,601.25	2,601.08	9.10	9.11	179.60	-7.50	0.07	23.25	5.08	18.18	1.279 Level 3	
2,700.00	2,698.70	2,702.07	2,701.51	9.46	9.47	179.68	1.34	0.17	26.68	7.84	18.85	1.416 Level 3	
2,800.00	2,797.47	2,803.01	2,801.68	9.82	9.83	179.75	13.73	0.30	30.09	10.59	19.50	1.543	
2,900.00	2,895.62	2,904.08	2,901.48	10.20	10.20	179.81	29.66	0.46	33.45	13.32	20.13	1.662	
3,000.00	2,993.06	3,005.26	3,000.77	10.58	10.57	179.87	49.13	0.67	36.78	16.04	20.74	1.774	
3,100.00	3,089.64	3,106.57	3,099.42	10.98	10.96	179.93	72.12	0.91	40.06	18.74	21.33	1.878	
3,200.00	3,185.27	3,207.99	3,197.32	11.40	11.37	179.99	98.62	1.19	43.30	21.40	21.90	1.977	
3,300.00	3,279.82	3,308.41	3,293.50	11.85	11.79	-179.96	127.49	1.49	47.29	24.72	22.57	2.095	
3,400.00	3,373.17	3,408.14	3,388.96	12.32	12.22	-179.92	156.34	1.79	51.59	31.29	23.30	2.343	
3,425.78	3,397.02	3,433.80	3,413.52	12.45	12.34	-179.91	163.76	1.87	57.03	33.54	23.49	2.428	
3,500.00	3,465.59	3,507.65	3,484.22	12.83	12.67	-179.89	185.13	2.09	64.40	40.36	24.04	2.679	
3,600.00	3,557.97	3,607.16	3,579.47	13.35	13.12	-179.87	213.92	2.40	74.33	49.55	24.78	3.000	
3,700.00	3,650.35	3,706.67	3,674.72	13.89	13.59	-179.86	242.70	2.70	84.26	58.73	25.53	3.300	
3,800.00	3,742.72	3,806.17	3,769.97	14.45	14.07	-179.85	271.49	3.00	94.19	67.90	26.29	3.583	
3,900.00	3,835.10	3,905.68	3,865.22	15.03	14.55	-179.84	300.28	3.30	104.12	77.07	27.05	3.849	
4,000.00	3,927.48	4,005.18	3,960.47	15.61	15.04	-179.83	329.07	3.60	114.05	86.23	27.82	4.099	
4,100.00	4,019.86	4,104.69	4,055.72	16.21	15.54	-179.83	357.85	3.91	123.98	95.38	28.60	4.336	
4,200.00	4,112.23	4,204.20	4,150.98	16.82	16.05	-179.82	386.64	4.21	133.91	104.53	29.37	4.559	
4,300.00	4,204.61	4,303.70	4,246.23	17.44	16.56	-179.82	415.43	4.51	143.84	113.68	30.16	4.769	
4,400.00	4,296.99	4,403.21	4,341.48	18.06	17.08	-179.81	444.22	4.81	153.76	122.82	30.95	4.969	
4,500.00	4,389.37	4,502.71	4,436.73	18.69	17.60	-179.81	473.00	5.11	163.69	131.96	31.74	5.158	
4,600.00	4,481.74	4,602.22	4,531.98	19.33	18.13	-179.81	501.79	5.41	173.62	141.09	32.53	5.337	
4,700.00	4,574.12	4,701.73	4,627.23	19.98	18.66	-179.80	530.58	5.72	183.55	150.22	33.33	5.507	
4,800.00	4,666.50	4,801.23	4,722.48	20.63	19.19	-179.80	559.36	6.02	193.48	159.35	34.13	5.669	
4,900.00	4,758.88	4,900.74	4,817.73	21.29	19.73	-179.80	588.15	6.32	203.41	168.48	34.93	5.823	
5,000.00	4,851.25	5,000.24	4,912.98	21.95	20.27	-179.80	616.94	6.62	213.34	177.60	35.74	5.969	

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
5,100.00	4,943.63	5,099.75	5,008.23	22.61	20.81	-179.79	645.73	6.92	223.27	186.72	36.55	6.109		
5,200.00	5,036.01	5,199.25	5,103.48	23.28	21.36	-179.79	674.51	7.23	233.20	195.84	37.36	6.242		
5,300.00	5,128.39	5,298.76	5,198.73	23.95	21.90	-179.79	703.30	7.53	243.13	204.96	38.17	6.369		
5,400.00	5,220.76	5,398.27	5,293.98	24.62	22.45	-179.79	732.09	7.83	253.06	214.07	38.99	6.491		
5,500.00	5,313.14	5,497.77	5,389.23	25.30	23.01	-179.79	760.88	8.13	262.99	223.18	39.80	6.607		
5,600.00	5,405.52	5,597.28	5,484.48	25.98	23.56	-179.79	789.66	8.43	272.92	232.29	40.62	6.719		
5,700.00	5,497.90	5,696.78	5,579.73	26.67	24.12	-179.79	818.45	8.74	282.84	241.40	41.44	6.825		
5,800.00	5,590.28	5,796.29	5,674.98	27.35	24.67	-179.78	847.24	9.04	292.77	250.51	42.26	6.928		
5,900.00	5,682.65	5,895.80	5,770.23	28.04	25.23	-179.78	876.03	9.34	302.70	259.62	43.09	7.026		
6,000.00	5,775.03	5,995.30	5,865.48	28.73	25.79	-179.78	904.81	9.64	312.63	268.72	43.91	7.120		
6,100.00	5,867.41	6,094.81	5,960.73	29.42	26.36	-179.78	933.60	9.94	322.56	277.83	44.74	7.210		
6,200.00	5,959.79	6,194.31	6,055.98	30.11	26.92	-179.78	962.39	10.25	332.49	286.93	45.56	7.297		
6,300.00	6,052.16	6,293.82	6,151.23	30.80	27.49	-179.78	991.17	10.55	342.42	296.03	46.39	7.381		
6,400.00	6,144.54	6,393.32	6,246.48	31.50	28.05	-179.78	1,019.96	10.85	352.35	305.13	47.22	7.462		
6,500.00	6,236.92	6,492.83	6,341.73	32.20	28.62	-179.78	1,048.75	11.15	362.28	314.23	48.05	7.539		
6,600.00	6,329.30	6,592.34	6,436.98	32.90	29.19	-179.78	1,077.54	11.45	372.21	323.32	48.88	7.614		
6,700.00	6,421.67	6,691.84	6,532.23	33.60	29.76	-179.78	1,106.32	11.75	382.14	332.42	49.71	7.687		
6,800.00	6,514.05	6,790.91	6,627.05	34.30	30.32	-179.69	1,134.98	11.44	392.08	341.53	50.55	7.756		
6,809.17	6,522.52	6,800.00	6,635.75	34.36	30.37	-179.61	1,137.60	10.97	393.00	342.38	50.63	7.763		
6,850.00	6,560.22	6,839.61	6,673.50	34.65	30.60	-169.07	1,148.98	7.26	397.13	346.15	50.98	7.790		
6,900.00	6,606.13	6,888.06	6,719.21	35.00	30.87	-156.95	1,162.73	-0.97	402.16	350.76	51.41	7.823		
6,950.00	6,651.44	6,936.29	6,763.90	35.34	31.13	-146.37	1,176.13	-13.14	407.14	355.30	51.84	7.853		
7,000.00	6,695.79	6,984.32	6,807.27	35.67	31.39	-137.55	1,189.11	-29.11	412.03	359.74	52.28	7.881		
7,050.00	6,738.87	7,032.15	6,849.07	36.00	31.63	-130.36	1,201.58	-48.73	416.78	364.04	52.73	7.904		
7,100.00	6,780.32	7,079.83	6,889.02	36.31	31.87	-124.54	1,213.46	-71.83	421.35	368.16	53.19	7.922		
7,150.00	6,819.85	7,127.36	6,926.90	36.61	32.10	-119.82	1,224.69	-98.23	425.71	372.05	53.66	7.934		
7,200.00	6,857.14	7,174.76	6,962.46	36.91	32.33	-115.99	1,235.20	-127.73	429.81	375.66	54.15	7.938		
7,250.00	6,891.92	7,222.06	6,995.51	37.19	32.55	-112.85	1,244.92	-160.12	433.64	378.97	54.67	7.932		
7,300.00	6,923.92	7,269.26	7,025.84	37.46	32.77	-110.29	1,253.80	-195.17	437.15	381.93	55.22	7.917		
7,350.00	6,952.90	7,316.40	7,053.28	37.73	32.99	-108.19	1,261.78	-232.65	440.32	384.51	55.81	7.889		
7,400.00	6,978.63	7,363.49	7,077.65	37.99	33.21	-106.49	1,268.82	-272.30	443.13	386.66	56.46	7.848		
7,450.00	7,000.93	7,410.54	7,098.81	38.25	33.44	-105.14	1,274.88	-313.87	445.55	388.37	57.17	7.793		
7,500.00	7,019.61	7,457.57	7,116.64	38.51	33.69	-104.08	1,279.91	-357.09	447.56	389.61	57.94	7.724		
7,550.00	7,034.55	7,504.60	7,131.01	38.77	33.95	-103.29	1,283.89	-401.67	449.14	390.36	58.78	7.641		
7,600.00	7,045.61	7,551.64	7,141.85	39.04	34.23	-102.76	1,286.79	-447.34	450.30	390.61	59.68	7.545		
7,650.00	7,052.73	7,600.00	7,149.21	39.32	34.55	-102.46	1,288.63	-495.09	451.01	390.31	60.70	7.430		
7,700.00	7,055.85	7,645.80	7,152.61	39.60	34.87	-102.39	1,289.28	-540.75	451.28	389.60	61.68	7.317		
7,713.69	7,056.00	7,658.71	7,152.94	39.68	34.97	-102.40	1,289.27	-553.65	451.27	389.31	61.97	7.283		
7,800.00	7,056.00	7,744.49	7,153.00	40.23	35.68	-102.41	1,288.59	-639.43	451.23	387.09	64.13	7.036		
7,900.00	7,056.00	7,844.49	7,153.00	41.02	36.70	-102.42	1,287.77	-739.42	451.18	384.22	66.96	6.738		
8,000.00	7,056.00	7,944.49	7,153.00	41.97	37.92	-102.42	1,286.95	-839.42	451.13	381.06	70.07	6.438		
8,100.00	7,056.00	8,044.49	7,153.00	43.10	39.32	-102.42	1,286.14	-939.42	451.09	377.64	73.44	6.142		
8,200.00	7,056.00	8,144.49	7,153.00	44.40	40.89	-102.42	1,285.32	-1,039.41	451.04	374.01	77.03	5.855		
8,300.00	7,056.00	8,244.49	7,153.00	45.85	42.59	-102.42	1,284.50	-1,139.41	451.00	370.18	80.82	5.580		
8,400.00	7,056.00	8,344.49	7,153.00	47.44	44.42	-102.42	1,283.68	-1,239.41	450.95	366.18	84.77	5.320		
8,500.00	7,056.00	8,444.49	7,153.00	49.17	46.35	-102.42	1,282.86	-1,339.40	450.90	362.04	88.86	5.074		
8,600.00	7,056.00	8,544.49	7,153.00	51.00	48.36	-102.42	1,282.04	-1,439.40	450.86	357.77	93.08	4.844		
8,700.00	7,056.00	8,644.49	7,153.00	52.93	50.45	-102.43	1,281.22	-1,539.40	450.81	353.40	97.41	4.628		
8,800.00	7,056.00	8,744.49	7,153.00	54.94	52.61	-102.43	1,280.40	-1,639.39	450.77	348.93	101.84	4.426		
8,900.00	7,056.00	8,844.49	7,153.00	57.02	54.82	-102.43	1,279.59	-1,739.39	450.72	344.38	106.34	4.238		
9,000.00	7,056.00	8,944.49	7,153.00	59.16	57.07	-102.43	1,278.77	-1,839.39	450.67	339.75	110.92	4.063		
9,100.00	7,056.00	9,044.49	7,153.00	61.36	59.37	-102.43	1,277.95	-1,939.38	450.63	335.06	115.57	3.899		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,200.00	7,056.00	9,144.49	7,153.00	63.60	61.71	-102.43	1,277.13	-2,039.38	450.58	330.32	120.27	3.747		
9,300.00	7,056.00	9,244.49	7,153.00	65.89	64.07	-102.43	1,276.31	-2,139.38	450.54	325.52	125.02	3.604		
9,400.00	7,056.00	9,344.49	7,153.00	68.21	66.47	-102.43	1,275.49	-2,239.37	450.49	320.68	129.81	3.470		
9,500.00	7,056.00	9,444.49	7,153.00	70.56	68.89	-102.44	1,274.67	-2,339.37	450.44	315.79	134.65	3.345		
9,600.00	7,056.00	9,544.49	7,153.00	72.95	71.34	-102.44	1,273.86	-2,439.37	450.40	310.88	139.52	3.228		
9,700.00	7,056.00	9,644.49	7,153.00	75.35	73.80	-102.44	1,273.04	-2,539.36	450.35	305.93	144.42	3.118		
9,800.00	7,056.00	9,744.49	7,153.00	77.78	76.28	-102.44	1,272.22	-2,639.36	450.30	300.95	149.36	3.015		
9,900.00	7,056.00	9,844.49	7,153.00	80.23	78.78	-102.44	1,271.40	-2,739.36	450.26	295.94	154.32	2.918		
10,000.00	7,056.00	9,944.49	7,153.00	82.70	81.29	-102.44	1,270.58	-2,839.35	450.21	290.91	159.30	2.826		
10,100.00	7,056.00	10,044.49	7,153.00	85.19	83.82	-102.44	1,269.76	-2,939.35	450.17	285.86	164.30	2.740		
10,200.00	7,056.00	10,144.49	7,153.00	87.69	86.36	-102.44	1,268.94	-3,039.35	450.12	280.79	169.33	2.658		
10,300.00	7,056.00	10,244.49	7,153.00	90.20	88.91	-102.45	1,268.13	-3,139.34	450.07	275.70	174.37	2.581		
10,400.00	7,056.00	10,344.49	7,153.00	92.73	91.47	-102.45	1,267.31	-3,239.34	450.03	270.60	179.43	2.508		
10,500.00	7,056.00	10,444.49	7,153.00	95.27	94.04	-102.45	1,266.49	-3,339.34	449.98	265.48	184.50	2.439		
10,600.00	7,056.00	10,544.49	7,153.00	97.81	96.62	-102.45	1,265.67	-3,439.33	449.94	260.35	189.59	2.373		
10,700.00	7,056.00	10,644.49	7,153.00	100.37	99.20	-102.45	1,264.85	-3,539.33	449.89	255.20	194.69	2.311		
10,800.00	7,056.00	10,744.49	7,153.00	102.94	101.80	-102.45	1,264.03	-3,639.33	449.84	250.04	199.80	2.251		
10,900.00	7,056.00	10,844.49	7,153.00	105.51	104.40	-102.45	1,263.21	-3,739.32	449.80	244.87	204.93	2.195		
11,000.00	7,056.00	10,944.49	7,153.00	108.09	107.00	-102.46	1,262.39	-3,839.32	449.75	239.69	210.06	2.141		
11,100.00	7,056.00	11,044.49	7,153.00	110.68	109.61	-102.46	1,261.58	-3,939.32	449.71	234.50	215.20	2.090		
11,200.00	7,056.00	11,144.49	7,153.00	113.28	112.23	-102.46	1,260.76	-4,039.31	449.66	229.31	220.36	2.041		
11,300.00	7,056.00	11,244.49	7,153.00	115.88	114.85	-102.46	1,259.94	-4,139.31	449.61	224.10	225.51	1.994		
11,400.00	7,056.00	11,344.49	7,153.00	118.49	117.48	-102.46	1,259.12	-4,239.31	449.57	218.89	230.68	1.949		
11,500.00	7,056.00	11,444.49	7,153.00	121.10	120.11	-102.46	1,258.30	-4,339.30	449.52	213.67	235.86	1.906		
11,600.00	7,056.00	11,544.49	7,153.00	123.72	122.74	-102.46	1,257.48	-4,439.30	449.48	208.44	241.04	1.865		
11,700.00	7,056.00	11,644.49	7,153.00	126.34	125.38	-102.46	1,256.66	-4,539.30	449.43	203.21	246.22	1.825		
11,800.00	7,056.00	11,744.49	7,153.00	128.97	128.03	-102.47	1,255.85	-4,639.29	449.38	197.97	251.42	1.787		
11,900.00	7,056.00	11,844.49	7,153.00	131.60	130.67	-102.47	1,255.03	-4,739.29	449.34	192.72	256.62	1.751		
12,000.00	7,056.00	11,944.49	7,153.00	134.23	133.32	-102.47	1,254.21	-4,839.29	449.29	187.47	261.82	1.716		
12,100.00	7,056.00	12,044.49	7,153.00	136.87	135.97	-102.47	1,253.39	-4,939.28	449.25	182.22	267.03	1.682		
12,200.00	7,056.00	12,144.49	7,153.00	139.51	138.63	-102.47	1,252.57	-5,039.28	449.20	176.96	272.24	1.650		
12,300.00	7,056.00	12,244.49	7,153.00	142.15	141.28	-102.47	1,251.75	-5,139.28	449.15	171.69	277.46	1.619		
12,400.00	7,056.00	12,344.49	7,153.00	144.80	143.94	-102.47	1,250.93	-5,239.27	449.11	166.43	282.68	1.589		
12,500.00	7,056.00	12,444.49	7,153.00	147.45	146.60	-102.47	1,250.12	-5,339.27	449.06	161.16	287.91	1.560		
12,600.00	7,056.00	12,544.49	7,153.00	150.10	149.27	-102.48	1,249.30	-5,439.27	449.02	155.88	293.13	1.532		
12,700.00	7,056.00	12,644.49	7,153.00	152.75	151.93	-102.48	1,248.48	-5,539.26	448.97	150.60	298.37	1.505		
12,800.00	7,056.00	12,744.49	7,153.00	155.41	154.60	-102.48	1,247.66	-5,639.26	448.92	145.32	303.60	1.479 Level 3		
12,900.00	7,056.00	12,844.49	7,153.00	158.07	157.27	-102.48	1,246.84	-5,739.26	448.88	140.04	308.84	1.453 Level 3		
13,000.00	7,056.00	12,944.49	7,153.00	160.73	159.94	-102.48	1,246.02	-5,839.25	448.83	134.75	314.08	1.429 Level 3		
13,100.00	7,056.00	13,044.49	7,153.00	163.39	162.61	-102.48	1,245.20	-5,939.25	448.79	129.46	319.33	1.405 Level 3		
13,200.00	7,056.00	13,144.49	7,153.00	166.06	165.29	-102.48	1,244.39	-6,039.25	448.74	124.17	324.57	1.383 Level 3		
13,300.00	7,056.00	13,244.49	7,153.00	168.73	167.97	-102.48	1,243.57	-6,139.24	448.69	118.87	329.82	1.360 Level 3		
13,400.00	7,056.00	13,344.49	7,153.00	171.40	170.64	-102.49	1,242.75	-6,239.24	448.65	113.57	335.07	1.339 Level 3		
13,500.00	7,056.00	13,444.49	7,153.00	174.07	173.32	-102.49	1,241.93	-6,339.24	448.60	108.27	340.33	1.318 Level 3		
13,600.00	7,056.00	13,544.49	7,153.00	176.74	176.00	-102.49	1,241.11	-6,439.23	448.56	102.97	345.59	1.298 Level 3		
13,700.00	7,056.00	13,644.49	7,153.00	179.41	178.68	-102.49	1,240.29	-6,539.23	448.51	97.67	350.84	1.278 Level 3		
13,800.00	7,056.00	13,744.49	7,153.00	182.09	181.37	-102.49	1,239.47	-6,639.23	448.46	92.36	356.10	1.259 Level 3		
13,900.00	7,056.00	13,844.49	7,153.00	184.76	184.05	-102.49	1,238.65	-6,739.22	448.42	87.05	361.37	1.241 Level 3		
14,000.00	7,056.00	13,944.49	7,153.00	187.44	186.74	-102.49	1,237.84	-6,839.22	448.37	81.74	366.63	1.223 Level 3		
14,100.00	7,056.00	14,044.49	7,153.00	190.12	189.42	-102.50	1,237.02	-6,939.22	448.32	76.43	371.90	1.206 Level 3		
14,200.00	7,056.00	14,144.49	7,153.00	192.80	192.11	-102.50	1,236.20	-7,039.21	448.28	71.12	377.16	1.189 Level 3		
14,300.00	7,056.00	14,244.49	7,153.00	195.48	194.80	-102.50	1,235.38	-7,139.21	448.23	65.80	382.43	1.172 Level 3		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
14,400.00	7,056.00	14,344.49	7,153.00	198.16	197.49	-102.50	1,234.56	-7,239.21	448.19	60.48	387.70	1.156	Level 3			
14,500.00	7,056.00	14,444.49	7,153.00	200.85	200.18	-102.50	1,233.74	-7,339.20	448.14	55.17	392.97	1.140	Level 3			
14,600.00	7,056.00	14,544.49	7,153.00	203.53	202.87	-102.50	1,232.92	-7,439.20	448.09	49.85	398.25	1.125	Level 3			
14,700.00	7,056.00	14,644.49	7,153.00	206.22	205.56	-102.50	1,232.11	-7,539.20	448.05	44.53	403.52	1.110	Level 3			
14,800.00	7,056.00	14,744.49	7,153.00	208.91	208.25	-102.50	1,231.29	-7,639.19	448.00	39.20	408.80	1.096	Level 3			
14,900.00	7,056.00	14,844.49	7,153.00	211.59	210.94	-102.51	1,230.47	-7,739.19	447.96	33.88	414.08	1.082	Level 3			
15,000.00	7,056.00	14,944.49	7,153.00	214.28	213.64	-102.51	1,229.65	-7,839.19	447.91	28.56	419.35	1.068	Level 3			
15,100.00	7,056.00	15,044.49	7,153.00	216.97	216.33	-102.51	1,228.83	-7,939.18	447.86	23.23	424.63	1.055	Level 3			
15,200.00	7,056.00	15,144.49	7,153.00	219.66	219.03	-102.51	1,228.01	-8,039.18	447.82	17.90	429.91	1.042	Level 3			
15,300.00	7,056.00	15,244.49	7,153.00	222.35	221.72	-102.51	1,227.19	-8,139.18	447.77	12.58	435.20	1.029	Level 3			
15,400.00	7,056.00	15,344.49	7,153.00	225.04	224.42	-102.51	1,226.38	-8,239.17	447.73	7.25	440.48	1.016	Level 3			
15,496.19	7,056.00	15,440.68	7,153.00	227.63	227.02	-102.51	1,225.59	-8,335.36	447.68	2.12	445.56	1.005	Level 3			

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Highside		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	19.31	87.44	30.63	92.65	92.65					
100.00	100.00	100.00	100.00	0.14	0.14	19.31	87.44	30.63	92.65	92.36	0.29	323.056			
200.00	200.00	200.00	200.00	0.50	0.50	19.31	87.44	30.63	92.65	91.64	1.00	92.302			
300.00	300.00	300.00	300.00	0.86	0.86	19.31	87.44	30.63	92.65	90.92	1.72	53.843			
400.00	400.00	396.97	396.95	1.22	1.21	19.01	89.08	30.68	94.26	91.83	2.43	38.804			
500.00	500.00	493.72	493.57	1.58	1.56	18.17	93.98	30.84	99.12	95.98	3.14	31.593			
600.00	600.00	590.03	589.53	1.94	1.91	16.94	102.10	31.09	107.24	103.40	3.84	27.914			
700.00	700.00	685.68	684.52	2.29	2.27	15.51	113.35	31.45	118.64	114.10	4.54	26.127			
800.00	800.00	783.43	781.26	2.65	2.66	14.06	127.32	31.89	132.58	127.33	5.25	25.259			
900.00	900.00	882.38	879.17	3.01	3.06	12.87	141.61	32.35	146.75	140.78	5.97	24.601			
1,000.00	1,000.00	981.33	977.08	3.37	3.47	11.88	155.91	32.80	160.97	154.28	6.68	24.086			
1,100.00	1,100.00	1,080.28	1,074.99	3.73	3.88	11.05	170.21	33.26	175.22	167.82	7.40	23.676			
1,200.00	1,200.00	1,179.22	1,172.90	4.09	4.29	10.35	184.51	33.71	189.51	181.39	8.12	23.336			
1,300.00	1,300.00	1,278.17	1,270.81	4.45	4.70	9.75	198.81	34.16	203.83	194.98	8.84	23.053			
1,400.00	1,400.00	1,377.12	1,368.72	4.80	5.12	9.23	213.11	34.62	218.16	208.59	9.56	22.813			
1,500.00	1,500.00	1,476.07	1,466.63	5.16	5.54	8.77	227.41	35.07	232.50	222.22	10.28	22.608			
1,600.00	1,600.00	1,575.02	1,564.54	5.52	5.95	8.36	241.71	35.52	246.86	235.86	11.01	22.431			
1,700.00	1,700.00	1,673.97	1,662.45	5.88	6.37	8.00	256.01	35.98	261.23	249.51	11.73	22.275			
1,800.00	1,800.00	1,772.92	1,760.36	6.24	6.79	7.68	270.30	36.43	275.61	263.17	12.45	22.138			
1,900.00	1,900.00	1,871.87	1,858.26	6.60	7.21	7.38	284.60	36.88	290.00	276.83	13.17	22.016			
2,000.00	2,000.00	1,970.82	1,956.17	6.95	7.63	7.12	298.90	37.34	304.40	290.50	13.89	21.907			
2,100.00	2,100.00	2,069.77	2,054.08	7.31	8.05	6.88	313.20	37.79	318.80	304.18	14.62	21.809			
2,200.00	2,200.00	2,168.72	2,151.99	7.67	8.47	6.66	327.50	38.24	333.20	317.86	15.34	21.721			
2,300.00	2,300.00	2,267.67	2,249.90	8.03	8.89	6.46	341.80	38.70	347.61	331.55	16.06	21.640			
2,400.00	2,399.98	2,366.85	2,348.04	8.39	9.31	5.59	356.13	39.15	360.30	343.52	16.79	21.464			
2,500.00	2,499.84	2,466.41	2,446.56	8.75	9.74	5.48	370.52	39.61	369.55	352.03	17.51	21.103			
2,600.00	2,599.45	2,566.24	2,545.34	9.10	10.16	5.43	384.95	40.07	375.32	357.08	18.24	20.578			
2,700.00	2,698.70	2,666.21	2,644.26	9.46	10.59	5.43	399.39	40.53	377.63	358.66	18.97	19.908			
2,800.00	2,797.47	2,766.20	2,743.20	9.82	11.01	5.49	413.84	40.98	376.46	356.76	19.70	19.111			
2,900.00	2,895.62	2,866.08	2,842.03	10.20	11.44	5.62	428.28	41.44	371.82	351.39	20.43	18.200			
3,000.00	2,993.06	2,965.74	2,940.64	10.58	11.86	5.80	442.68	41.90	363.71	342.55	21.16	17.188			
3,100.00	3,089.64	3,065.06	3,038.91	10.98	12.29	6.07	457.03	42.35	352.16	330.26	21.89	16.087			
3,200.00	3,185.27	3,163.90	3,136.72	11.40	12.71	6.42	471.31	42.81	337.17	314.55	22.62	14.904			
3,300.00	3,279.82	3,262.16	3,233.95	11.85	13.13	6.89	485.51	43.26	318.77	295.42	23.35	13.650			
3,400.00	3,373.17	3,359.71	3,330.48	12.32	13.54	7.51	499.61	43.70	297.01	272.92	24.08	12.332			
3,425.78	3,397.02	3,384.73	3,355.23	12.45	13.65	7.70	503.22	43.82	290.86	266.58	24.27	11.982			
3,500.00	3,465.59	3,456.68	3,426.43	12.83	13.96	8.26	513.62	44.15	272.84	248.02	24.82	10.994			
3,600.00	3,557.97	3,553.63	3,522.35	13.35	14.37	9.13	527.63	44.59	248.61	223.05	25.56	9.727			
3,700.00	3,650.35	3,650.57	3,618.28	13.89	14.78	10.20	541.64	45.04	224.44	198.13	26.31	8.531			
3,800.00	3,742.72	3,747.51	3,714.20	14.45	15.20	11.52	555.65	45.48	200.36	173.29	27.07	7.401			
3,900.00	3,835.10	3,844.45	3,810.12	15.03	15.61	13.20	569.66	45.93	176.42	148.56	27.86	6.333			
4,000.00	3,927.48	3,941.40	3,906.05	15.61	16.03	15.40	583.67	46.37	152.66	123.99	28.67	5.325			
4,100.00	4,019.86	4,038.34	4,001.97	16.21	16.44	18.40	597.68	46.82	129.19	99.66	29.53	4.375			
4,200.00	4,112.23	4,135.28	4,097.89	16.82	16.85	22.71	611.68	47.26	106.21	75.72	30.49	3.483			
4,300.00	4,204.61	4,232.22	4,193.82	17.44	17.27	29.31	625.69	47.70	84.12	52.47	31.65	2.658			
4,400.00	4,296.99	4,329.17	4,289.74	18.06	17.68	40.24	639.70	48.15	63.83	30.60	33.23	1.921			
4,500.00	4,389.37	4,426.11	4,385.67	18.69	18.09	59.44	653.71	48.59	47.72	12.12	35.60	1.341 Level 3			
4,599.18	4,480.99	4,522.26	4,480.81	19.33	18.50	89.33	667.61	49.03	41.05	3.22	37.83	1.085 Level 3, CC			
4,600.00	4,481.74	4,523.05	4,481.59	19.33	18.51	89.60	667.72	49.04	41.05	3.21	37.84	1.085 Level 3, ES, SF			
4,700.00	4,574.12	4,619.99	4,577.51	19.98	18.92	119.63	681.73	49.48	47.93	10.28	37.65	1.273 Level 3			
4,800.00	4,666.50	4,716.94	4,673.44	20.63	19.34	138.66	695.74	49.93	64.14	27.23	36.91	1.738			
4,900.00	4,758.88	4,813.88	4,769.36	21.29	19.75	149.49	709.75	50.37	84.46	47.69	36.77	2.297			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,851.25	4,910.82	4,865.29	21.95	20.16	156.04	723.76	50.82	106.58	69.53	37.05	2.877			
5,100.00	4,943.63	5,007.76	4,961.21	22.61	20.58	160.32	737.77	51.26	129.57	92.04	37.53	3.452			
5,200.00	5,036.01	5,104.71	5,057.13	23.28	20.99	163.31	751.77	51.70	153.04	114.92	38.13	4.014			
5,300.00	5,128.39	5,201.65	5,153.06	23.95	21.41	165.50	765.78	52.15	176.81	138.03	38.78	4.559			
5,400.00	5,220.76	5,298.59	5,248.98	24.62	21.82	167.17	779.79	52.59	200.76	161.29	39.47	5.086			
5,500.00	5,313.14	5,395.53	5,344.90	25.30	22.23	168.49	793.80	53.04	224.83	184.65	40.18	5.595			
5,600.00	5,405.52	5,492.47	5,440.83	25.98	22.65	169.55	807.81	53.48	249.00	208.09	40.91	6.086			
5,700.00	5,497.90	5,589.42	5,536.75	26.67	23.06	170.42	821.82	53.93	273.23	231.58	41.66	6.559			
5,800.00	5,590.28	5,680.74	5,627.19	27.35	23.45	171.13	834.50	54.33	298.09	255.73	42.35	7.038			
5,900.00	5,682.65	5,767.47	5,713.38	28.04	23.79	171.78	844.08	54.63	325.68	282.70	42.98	7.577			
6,000.00	5,775.03	5,852.62	5,798.25	28.73	24.11	172.40	850.95	54.85	356.15	312.58	43.57	8.174			
6,100.00	5,867.41	5,936.09	5,881.61	29.42	24.40	172.96	855.24	54.99	389.42	345.31	44.11	8.828			
6,200.00	5,959.79	6,017.79	5,963.29	30.11	24.66	173.48	857.08	55.05	425.41	380.80	44.61	9.535			
6,300.00	6,052.16	6,106.67	6,052.16	30.80	24.93	174.00	857.18	55.05	463.40	418.15	45.25	10.241			
6,400.00	6,144.54	6,199.05	6,144.54	31.50	25.21	174.46	857.18	55.05	501.53	455.57	45.96	10.913			
6,500.00	6,236.92	6,291.42	6,236.92	32.20	25.50	174.85	857.18	55.05	539.68	493.01	46.67	11.565			
6,600.00	6,329.30	6,383.80	6,329.30	32.90	25.78	175.19	857.18	55.05	577.85	530.47	47.38	12.196			
6,700.00	6,421.67	6,476.18	6,421.67	33.60	26.07	175.49	857.18	55.05	616.03	567.94	48.10	12.808			
6,800.00	6,514.05	6,568.56	6,514.05	34.30	26.35	175.75	857.18	55.05	654.23	605.42	48.82	13.402			
6,809.17	6,522.52	6,577.03	6,522.52	34.36	26.38	175.77	857.18	55.05	657.73	608.85	48.88	13.456			
6,850.00	6,560.22	6,614.72	6,560.22	34.65	26.50	-172.79	857.18	55.05	673.39	624.22	49.18	13.693			
6,900.00	6,606.13	6,660.64	6,606.13	35.00	26.64	-159.88	857.18	55.05	692.67	643.13	49.55	13.980			
6,950.00	6,651.44	6,705.94	6,651.44	35.34	26.78	-148.80	857.18	55.05	712.00	662.08	49.92	14.263			
7,000.00	6,695.79	6,752.55	6,698.04	35.67	26.92	-139.76	857.17	54.66	731.35	681.02	50.32	14.533			
7,050.00	6,738.87	6,802.98	6,748.29	36.00	27.07	-132.45	857.14	50.60	750.45	699.68	50.77	14.781			
7,100.00	6,780.32	6,855.15	6,799.69	36.31	27.23	-126.50	857.07	41.77	769.13	717.90	51.23	15.013			
7,150.00	6,819.85	6,909.29	6,851.95	36.61	27.38	-121.67	856.95	27.70	787.21	735.52	51.70	15.228			
7,200.00	6,857.14	6,965.65	6,904.68	36.91	27.54	-117.72	856.79	7.89	804.55	752.39	52.16	15.425			
7,250.00	6,891.92	7,024.43	6,957.33	37.19	27.69	-114.49	856.57	-18.19	820.96	768.34	52.62	15.600			
7,300.00	6,923.92	7,085.81	7,009.16	37.46	27.85	-111.83	856.31	-51.02	836.28	783.18	53.10	15.749			
7,350.00	6,952.90	7,149.91	7,059.21	37.73	28.01	-109.65	855.98	-91.02	850.31	796.70	53.61	15.862			
7,400.00	6,978.63	7,216.76	7,106.30	37.99	28.18	-107.85	855.59	-138.41	862.88	808.70	54.18	15.925			
7,450.00	7,000.93	7,286.24	7,149.06	38.25	28.37	-106.38	855.14	-193.13	873.81	818.94	54.87	15.926			
7,500.00	7,019.61	7,358.12	7,185.98	38.51	28.61	-105.19	854.63	-254.73	882.92	827.21	55.71	15.848			
7,550.00	7,034.55	7,431.95	7,215.58	38.77	28.95	-104.22	854.08	-322.31	890.08	833.31	56.78	15.677			
7,600.00	7,045.61	7,507.14	7,236.55	39.04	29.44	-103.45	853.49	-394.46	895.17	837.10	58.08	15.413			
7,650.00	7,052.73	7,582.98	7,247.94	39.32	30.09	-102.85	852.87	-469.38	898.12	838.49	59.62	15.063			
7,700.00	7,055.85	7,649.50	7,250.00	39.60	30.79	-102.48	852.33	-535.84	898.97	837.82	61.15	14.701			
7,713.69	7,056.00	7,663.19	7,250.00	39.68	30.95	-102.46	852.22	-549.53	899.00	837.51	61.48	14.622			
7,800.00	7,056.00	7,749.50	7,250.00	40.23	32.04	-102.46	851.51	-635.84	898.96	835.23	63.72	14.107			
7,900.00	7,056.00	7,849.50	7,250.00	41.02	33.47	-102.46	850.69	-735.83	898.91	832.30	66.61	13.495			
8,000.00	7,056.00	7,949.50	7,250.00	41.97	35.07	-102.46	849.87	-835.83	898.87	829.08	69.79	12.880			
8,100.00	7,056.00	8,049.50	7,250.00	43.10	36.81	-102.46	849.05	-935.83	898.82	825.61	73.21	12.277			
8,200.00	7,056.00	8,149.50	7,250.00	44.40	38.67	-102.47	848.23	-1,035.82	898.78	821.93	76.85	11.695			
8,300.00	7,056.00	8,249.50	7,250.00	45.85	40.62	-102.47	847.41	-1,135.82	898.73	818.05	80.68	11.139			
8,400.00	7,056.00	8,349.50	7,250.00	47.44	42.67	-102.47	846.59	-1,235.82	898.69	814.01	84.68	10.613			
8,500.00	7,056.00	8,449.50	7,250.00	49.17	44.78	-102.47	845.77	-1,335.81	898.65	809.84	88.81	10.119			
8,600.00	7,056.00	8,549.50	7,250.00	51.00	46.96	-102.47	844.95	-1,435.81	898.60	805.54	93.06	9.656			
8,700.00	7,056.00	8,649.50	7,250.00	52.93	49.19	-102.47	844.12	-1,535.80	898.56	801.13	97.42	9.223			
8,800.00	7,056.00	8,749.50	7,250.00	54.94	51.47	-102.47	843.30	-1,635.80	898.51	796.64	101.87	8.820			
8,900.00	7,056.00	8,849.50	7,250.00	57.02	53.80	-102.47	842.48	-1,735.80	898.47	792.06	106.41	8.444			
9,000.00	7,056.00	8,949.50	7,250.00	59.16	56.15	-102.47	841.66	-1,835.79	898.42	787.41	111.01	8.093			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,100.00	7,056.00	9,049.50	7,250.00	61.36	58.54	-102.47	840.84	-1,935.79	898.38	782.70	115.68	7.766			
9,200.00	7,056.00	9,149.50	7,250.00	63.60	60.96	-102.47	840.02	-2,035.79	898.33	777.94	120.40	7.461			
9,300.00	7,056.00	9,249.50	7,250.00	65.89	63.41	-102.47	839.20	-2,135.78	898.29	773.12	125.17	7.177			
9,400.00	7,056.00	9,349.50	7,250.00	68.21	65.87	-102.47	838.38	-2,235.78	898.25	768.27	129.98	6.911			
9,500.00	7,056.00	9,449.50	7,249.99	70.56	68.35	-102.47	837.56	-2,335.78	898.20	763.37	134.83	6.662			
9,600.00	7,056.00	9,549.50	7,249.99	72.95	70.86	-102.47	836.74	-2,435.77	898.16	758.44	139.72	6.428			
9,700.00	7,056.00	9,649.50	7,249.99	75.35	73.37	-102.47	835.92	-2,535.77	898.11	753.48	144.63	6.210			
9,800.00	7,056.00	9,749.50	7,249.99	77.78	75.91	-102.47	835.10	-2,635.77	898.07	748.49	149.58	6.004			
9,900.00	7,056.00	9,849.50	7,249.99	80.23	78.45	-102.48	834.28	-2,735.76	898.02	743.47	154.55	5.811			
10,000.00	7,056.00	9,949.50	7,249.99	82.70	81.01	-102.48	833.46	-2,835.76	897.98	738.44	159.54	5.628			
10,100.00	7,056.00	10,049.50	7,249.99	85.19	83.57	-102.48	832.64	-2,935.76	897.93	733.38	164.56	5.457			
10,200.00	7,056.00	10,149.50	7,249.99	87.69	86.15	-102.48	831.82	-3,035.75	897.89	728.30	169.59	5.294			
10,300.00	7,056.00	10,249.50	7,249.99	90.20	88.73	-102.48	831.00	-3,135.75	897.85	723.20	174.64	5.141			
10,400.00	7,056.00	10,349.50	7,249.99	92.73	91.33	-102.48	830.18	-3,235.75	897.80	718.09	179.71	4.996			
10,500.00	7,056.00	10,449.50	7,249.99	95.27	93.93	-102.48	829.36	-3,335.74	897.76	712.96	184.79	4.858			
10,600.00	7,056.00	10,549.50	7,249.99	97.81	96.53	-102.48	828.54	-3,435.74	897.71	707.82	189.89	4.728			
10,700.00	7,056.00	10,649.50	7,249.99	100.37	99.15	-102.48	827.72	-3,535.74	897.67	702.67	195.00	4.604			
10,800.00	7,056.00	10,749.50	7,249.99	102.94	101.76	-102.48	826.90	-3,635.73	897.62	697.51	200.12	4.486			
10,900.00	7,056.00	10,849.50	7,249.99	105.51	104.39	-102.48	826.08	-3,735.73	897.58	692.33	205.25	4.373			
11,000.00	7,056.00	10,949.50	7,249.99	108.09	107.02	-102.48	825.26	-3,835.73	897.53	687.15	210.39	4.266			
11,100.00	7,056.00	11,049.50	7,249.99	110.68	109.65	-102.48	824.44	-3,935.72	897.49	681.96	215.53	4.164			
11,200.00	7,056.00	11,149.50	7,249.99	113.28	112.29	-102.48	823.62	-4,035.72	897.45	676.75	220.69	4.067			
11,300.00	7,056.00	11,249.50	7,249.99	115.88	114.93	-102.48	822.80	-4,135.72	897.40	671.55	225.86	3.973			
11,400.00	7,056.00	11,349.50	7,249.99	118.49	117.57	-102.48	821.98	-4,235.71	897.36	666.33	231.03	3.884			
11,500.00	7,056.00	11,449.50	7,249.99	121.10	120.22	-102.49	821.16	-4,335.71	897.31	661.10	236.21	3.799			
11,600.00	7,056.00	11,549.50	7,249.99	123.72	122.87	-102.49	820.34	-4,435.71	897.27	655.87	241.39	3.717			
11,700.00	7,056.00	11,649.50	7,249.99	126.34	125.53	-102.49	819.52	-4,535.70	897.22	650.64	246.59	3.639			
11,800.00	7,056.00	11,749.50	7,249.99	128.97	128.19	-102.49	818.69	-4,635.70	897.18	645.40	251.78	3.563			
11,900.00	7,056.00	11,849.50	7,249.99	131.60	130.85	-102.49	817.87	-4,735.70	897.13	640.15	256.99	3.491			
12,000.00	7,056.00	11,949.50	7,249.99	134.23	133.51	-102.49	817.05	-4,835.69	897.09	634.90	262.19	3.421			
12,100.00	7,056.00	12,049.50	7,249.99	136.87	136.18	-102.49	816.23	-4,935.69	897.05	629.64	267.41	3.355			
12,200.00	7,056.00	12,149.50	7,249.99	139.51	138.84	-102.49	815.41	-5,035.69	897.00	624.38	272.62	3.290			
12,300.00	7,056.00	12,249.50	7,249.99	142.15	141.51	-102.49	814.59	-5,135.68	896.96	619.11	277.84	3.228			
12,400.00	7,056.00	12,349.50	7,249.99	144.80	144.18	-102.49	813.77	-5,235.68	896.91	613.84	283.07	3.169			
12,500.00	7,056.00	12,449.50	7,249.99	147.45	146.86	-102.49	812.95	-5,335.68	896.87	608.57	288.30	3.111			
12,600.00	7,056.00	12,549.50	7,249.99	150.10	149.53	-102.49	812.13	-5,435.67	896.82	603.29	293.53	3.055			
12,700.00	7,056.00	12,649.50	7,249.99	152.75	152.21	-102.49	811.31	-5,535.67	896.78	598.01	298.77	3.002			
12,800.00	7,056.00	12,749.50	7,249.99	155.41	154.89	-102.49	810.49	-5,635.67	896.74	592.73	304.00	2.950			
12,900.00	7,056.00	12,849.50	7,249.98	158.07	157.57	-102.49	809.67	-5,735.66	896.69	587.45	309.25	2.900			
13,000.00	7,056.00	12,949.50	7,249.98	160.73	160.25	-102.49	808.85	-5,835.66	896.65	582.16	314.49	2.851			
13,100.00	7,056.00	13,049.50	7,249.98	163.39	162.93	-102.50	808.03	-5,935.66	896.60	576.86	319.74	2.804			
13,200.00	7,056.00	13,149.50	7,249.98	166.06	165.61	-102.50	807.21	-6,035.65	896.56	571.57	324.99	2.759			
13,300.00	7,056.00	13,249.50	7,249.98	168.73	168.30	-102.50	806.39	-6,135.65	896.51	566.27	330.24	2.715			
13,400.00	7,056.00	13,349.50	7,249.98	171.40	170.98	-102.50	805.57	-6,235.65	896.47	560.97	335.49	2.672			
13,500.00	7,056.00	13,449.50	7,249.98	174.07	173.67	-102.50	804.75	-6,335.64	896.42	555.67	340.75	2.631			
13,600.00	7,056.00	13,549.50	7,249.98	176.74	176.36	-102.50	803.93	-6,435.64	896.38	550.37	346.01	2.591			
13,700.00	7,056.00	13,649.50	7,249.98	179.41	179.05	-102.50	803.11	-6,535.64	896.34	545.06	351.27	2.552			
13,800.00	7,056.00	13,749.50	7,249.98	182.09	181.74	-102.50	802.29	-6,635.63	896.29	539.76	356.53	2.514			
13,900.00	7,056.00	13,849.50	7,249.98	184.76	184.43	-102.50	801.47	-6,735.63	896.25	534.45	361.80	2.477			
14,000.00	7,056.00	13,949.50	7,249.98	187.44	187.12	-102.50	800.65	-6,835.63	896.20	529.14	367.07	2.442			
14,100.00	7,056.00	14,049.50	7,249.98	190.12	189.81	-102.50	799.83	-6,935.62	896.16	523.82	372.33	2.407			
14,200.00	7,056.00	14,149.50	7,249.98	192.80	192.51	-102.50	799.01	-7,035.62	896.11	518.51	377.60	2.373			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,300.00	7,056.00	14,249.50	7,249.98	195.48	195.20	-102.50	798.19	-7,135.62	896.07	513.19	382.88	2.340		
14,400.00	7,056.00	14,349.50	7,249.98	198.16	197.90	-102.50	797.37	-7,235.61	896.02	507.88	388.15	2.308		
14,500.00	7,056.00	14,449.50	7,249.98	200.85	200.59	-102.50	796.55	-7,335.61	895.98	502.56	393.42	2.277		
14,600.00	7,056.00	14,549.50	7,249.98	203.53	203.29	-102.50	795.73	-7,435.61	895.94	497.24	398.70	2.247		
14,700.00	7,056.00	14,649.50	7,249.98	206.22	205.99	-102.50	794.91	-7,535.60	895.89	491.92	403.98	2.218		
14,800.00	7,056.00	14,749.50	7,249.98	208.91	208.69	-102.51	794.08	-7,635.60	895.85	486.59	409.25	2.189		
14,900.00	7,056.00	14,849.50	7,249.98	211.59	211.38	-102.51	793.26	-7,735.60	895.80	481.27	414.53	2.161		
15,000.00	7,056.00	14,949.50	7,249.98	214.28	214.08	-102.51	792.44	-7,835.59	895.76	475.94	419.81	2.134		
15,100.00	7,056.00	15,049.50	7,249.98	216.97	216.78	-102.51	791.62	-7,935.59	895.71	470.62	425.10	2.107		
15,200.00	7,056.00	15,149.50	7,249.98	219.66	219.48	-102.51	790.80	-8,035.59	895.67	465.29	430.38	2.081		
15,300.00	7,056.00	15,249.50	7,249.98	222.35	222.18	-102.51	789.98	-8,135.58	895.62	459.96	435.66	2.056		
15,400.00	7,056.00	15,349.50	7,249.98	225.04	224.89	-102.51	789.16	-8,235.58	895.58	454.63	440.95	2.031		
15,496.19	7,056.00	15,447.93	7,249.99	227.63	227.55	-102.51	788.48	-8,334.02	895.42	449.27	446.15	2.007		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	22.80	72.86	30.63	79.04	79.04	0.29	275.613		
100.00	100.00	100.00	100.00	0.14	0.14	22.80	72.86	30.63	79.04	78.75	1.00	78.747		
200.00	200.00	200.00	200.00	0.50	0.50	22.80	72.86	30.63	79.04	78.04	1.72	45.936		
300.00	300.00	300.00	300.00	0.86	0.86	22.80	72.86	30.63	79.04	77.32	2.44	32.425 CC, ES		
400.00	400.00	400.00	400.00	1.22	1.22	22.80	72.86	30.63	79.04	76.60	3.14	25.654		
500.00	500.00	497.37	497.35	1.58	1.57	23.12	74.16	31.66	80.68	77.53	3.85	22.226		
600.00	600.00	594.97	594.82	1.94	1.92	23.99	78.07	34.74	85.60	81.75	4.56	20.203		
700.00	700.00	694.28	693.90	2.29	2.28	25.03	83.36	38.93	92.21	87.64	5.28	18.722		
800.00	800.00	794.05	793.43	2.65	2.64	25.94	88.68	43.14	98.84	93.56	6.00	17.595		
900.00	900.00	893.81	892.97	3.01	3.01	26.73	94.00	47.35	105.49	99.50	6.71	16.710		
1,000.00	1,000.00	993.58	992.51	3.37	3.38	27.43	99.33	51.56	112.16	105.45	7.43	15.997		
1,100.00	1,100.00	1,093.35	1,092.05	3.73	3.75	28.05	104.65	55.77	118.85	111.42	8.15	15.411		
1,200.00	1,200.00	1,193.12	1,191.58	4.09	4.12	28.61	109.97	59.98	125.54	117.40	8.86	14.920		
1,300.00	1,300.00	1,292.89	1,291.12	4.45	4.49	29.11	115.29	64.19	132.25	123.39	9.58	14.503		
1,400.00	1,400.00	1,392.66	1,390.66	4.80	4.86	29.56	120.61	68.39	138.97	129.39	10.30	14.145		
1,500.00	1,500.00	1,492.43	1,490.20	5.16	5.23	29.96	125.93	72.60	145.69	135.39	11.02	13.835		
1,600.00	1,600.00	1,592.19	1,589.74	5.52	5.60	30.34	131.25	76.81	152.42	141.41	11.74	13.562		
1,700.00	1,700.00	1,691.96	1,689.27	5.88	5.97	30.68	136.58	81.02	159.16	147.43	12.45	13.322		
1,800.00	1,800.00	1,791.73	1,788.81	6.24	6.34	30.99	141.90	85.23	165.90	153.45	13.17	13.108		
1,900.00	1,900.00	1,891.50	1,888.35	6.60	6.71	31.28	147.22	89.44	172.65	159.48	13.89	12.916		
2,000.00	2,000.00	1,991.27	1,987.89	6.95	7.09	31.55	152.54	93.65	179.40	165.51	14.61	12.743		
2,100.00	2,100.00	2,091.04	2,087.42	7.31	7.46	31.79	157.86	97.86	186.16	171.55	15.33	12.587		
2,200.00	2,200.00	2,190.81	2,186.96	7.67	7.83	32.02	163.18	102.06	192.91	177.59	16.04	12.445		
2,300.00	2,300.00	2,290.57	2,286.50	8.03	8.20	32.24	168.50	106.27	199.67	183.63	16.76	12.227		
2,400.00	2,399.98	2,390.42	2,386.11	8.39	8.58	31.96	173.83	110.49	204.96	188.20	17.48	11.860		
2,500.00	2,499.84	2,490.32	2,485.79	8.75	8.95	32.88	179.16	114.70	207.32	189.84	18.20	11.367		
2,600.00	2,599.45	2,590.18	2,585.41	9.10	9.32	34.35	184.48	118.91	206.84	188.65	18.91	10.769		
2,700.00	2,698.70	2,689.85	2,684.85	9.46	9.69	36.43	189.80	123.12	203.68	184.77	19.63	10.090		
2,800.00	2,797.47	2,789.23	2,784.00	9.82	10.06	39.22	195.10	127.31	198.08	178.44	20.35	9.353		
2,900.00	2,895.62	2,888.19	2,882.73	10.20	10.43	42.89	200.38	131.48	190.37	170.02	21.09	8.589		
3,000.00	2,993.06	2,986.61	2,980.92	10.58	10.80	47.64	205.63	135.64	181.10	160.02	21.84	7.833		
3,100.00	3,089.64	3,084.36	3,078.45	10.98	11.17	53.74	210.84	139.76	171.07	149.23	22.63	7.134		
3,200.00	3,185.27	3,181.34	3,175.20	11.40	11.53	61.46	216.02	143.85	161.44	138.81	23.48	6.556		
3,300.00	3,279.82	3,277.42	3,271.06	11.85	11.89	70.97	221.14	147.90	153.90	130.43	24.38	6.180		
3,400.00	3,373.17	3,372.49	3,365.91	12.32	12.24	82.10	226.21	151.91	150.63	126.26	24.42	6.167		
3,405.38	3,378.15	3,377.57	3,370.98	12.35	12.26	82.73	226.48	152.13	150.62	126.20	24.61	6.125		
3,425.78	3,397.02	3,396.81	3,390.18	12.45	12.33	85.15	227.51	152.94	150.76	126.15	25.29	6.082		
3,500.00	3,465.59	3,466.75	3,459.95	12.83	12.59	93.92	231.24	155.89	153.83	128.54	26.17	6.265		
3,600.00	3,557.97	3,560.98	3,553.96	13.35	12.95	104.91	236.26	159.87	163.94	137.77	26.98	9.262		
3,700.00	3,650.35	3,655.20	3,647.97	13.89	13.30	114.43	241.29	163.84	179.81	152.83	27.74	7.213		
3,800.00	3,742.72	3,749.43	3,741.98	14.45	13.65	122.35	246.32	167.82	200.08	172.34	28.46	7.853		
3,900.00	3,835.10	3,843.65	3,835.98	15.03	14.00	128.81	251.34	171.79	223.55	195.08	29.17	8.546		
4,000.00	3,927.48	3,937.88	3,929.99	15.61	14.35	134.05	256.37	175.77	249.31	220.14	29.88	9.262		
4,100.00	4,019.86	4,032.10	4,024.00	16.21	14.71	138.32	261.39	179.74	276.74	246.86	30.58	9.986		
4,200.00	4,112.23	4,126.33	4,118.00	16.82	15.06	141.84	266.42	183.72	305.38	274.80	31.29	10.705		
4,300.00	4,204.61	4,220.56	4,212.01	17.44	15.41	144.75	271.44	187.69	334.92	303.63	32.00	11.412		
4,400.00	4,296.99	4,314.78	4,306.02	18.06	15.76	147.20	276.47	191.67	365.14	333.15	32.71	12.103		
4,500.00	4,389.37	4,409.01	4,400.03	18.69	16.12	149.29	281.50	195.64	395.89	363.18	33.43	12.776		
4,600.00	4,481.74	4,503.23	4,494.03	19.33	16.47	151.07	286.52	199.62	427.05	393.63	34.15	13.428		
4,700.00	4,574.12	4,597.46	4,588.04	19.98	16.82	152.61	291.55	203.59	458.54	424.39	34.87	14.060		
4,800.00	4,666.50	4,691.68	4,682.05	20.63	17.17	153.96	296.57	207.57	490.30	455.42	35.60	14.670		
4,900.00	4,758.88	4,785.91	4,776.06	21.29	17.52	155.15	301.60	211.54	522.27	486.67				

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,000.00	4,851.25	4,880.13	4,870.06	21.95	17.88	156.20	306.62	215.52	554.42	518.09	36.33	15.260			
5,100.00	4,943.63	4,974.36	4,964.07	22.61	18.23	157.13	311.65	219.49	586.72	549.66	37.07	15.829			
5,200.00	5,036.01	5,068.58	5,058.08	23.28	18.58	157.97	316.68	223.47	619.15	581.35	37.80	16.379			
5,300.00	5,128.39	5,162.81	5,152.08	23.95	18.93	158.72	321.70	227.44	651.68	613.14	38.54	16.909			
5,400.00	5,220.76	5,257.03	5,246.09	24.62	19.28	159.41	326.73	231.42	684.31	645.03	39.28	17.420			
5,500.00	5,313.14	5,351.26	5,340.10	25.30	19.64	160.03	331.75	235.39	717.02	676.99	40.03	17.914			
5,600.00	5,405.52	5,445.49	5,434.11	25.98	19.99	160.60	336.78	239.37	749.79	709.02	40.77	18.390			
5,700.00	5,497.90	5,539.71	5,528.11	26.67	20.34	161.12	341.80	243.34	782.63	741.11	41.52	18.850			
5,800.00	5,590.28	5,633.94	5,622.12	27.35	20.69	161.59	346.83	247.32	815.52	773.25	42.27	19.294			
5,900.00	5,682.65	5,728.16	5,716.13	28.04	21.05	162.04	351.86	251.29	848.45	805.44	43.02	19.724			
6,000.00	5,775.03	5,822.39	5,810.14	28.73	21.40	162.44	356.88	255.27	881.43	837.66	43.77	20.138			
6,100.00	5,867.41	5,916.61	5,904.14	29.42	21.75	162.82	361.91	259.24	914.45	869.92	44.52	20.539			
6,200.00	5,959.79	6,010.84	5,998.15	30.11	22.10	163.18	366.93	263.22	947.50	902.22	45.28	20.927			
6,300.00	6,052.16	6,105.06	6,092.16	30.80	22.45	163.51	371.96	267.19	980.57	934.54	46.03	21.302			
6,400.00	6,144.54	6,199.29	6,186.16	31.50	22.81	163.81	376.98	271.17	1,013.68	966.89	46.79	21.665			
6,500.00	6,236.92	6,293.51	6,280.17	32.20	23.16	164.10	382.01	275.14	1,046.81	999.26	47.55	22.017			
6,600.00	6,329.30	6,387.74	6,374.18	32.90	23.51	164.37	387.04	279.12	1,079.96	1,031.66	48.30	22.358			
6,700.00	6,421.67	6,481.96	6,468.19	33.60	23.86	164.63	392.06	283.09	1,113.13	1,064.07	49.06	22.688			
6,800.00	6,514.05	6,649.29	6,633.80	34.30	24.40	166.26	400.71	265.89	1,143.28	1,093.19	50.08	22.827			
6,809.17	6,522.52	6,663.84	6,647.84	34.36	24.43	166.51	401.43	262.12	1,145.77	1,095.62	50.15	22.847			
6,850.00	6,560.22	6,726.80	6,707.30	34.65	24.59	178.56	404.41	241.75	1,156.72	1,106.31	50.41	22.945			
6,900.00	6,606.13	6,800.13	6,773.25	35.00	24.75	-167.43	407.65	209.97	1,169.98	1,119.28	50.69	23.080			
6,950.00	6,651.44	6,869.47	6,831.41	35.34	24.87	-154.94	410.42	172.39	1,183.06	1,132.10	50.96	23.215			
7,000.00	6,695.79	6,935.10	6,881.91	35.67	24.97	-144.22	412.76	130.59	1,195.94	1,144.69	51.25	23.336			
7,050.00	6,738.87	6,997.35	6,925.10	36.00	25.06	-135.16	414.67	85.85	1,208.58	1,157.00	51.58	23.433			
7,100.00	6,780.32	7,056.54	6,961.45	36.31	25.22	-127.51	416.21	39.19	1,220.92	1,168.95	51.96	23.496			
7,150.00	6,819.85	7,112.99	6,991.47	36.61	25.50	-121.01	417.41	-8.57	1,232.88	1,180.47	52.42	23.521			
7,200.00	6,857.14	7,166.99	7,015.67	36.91	25.84	-115.45	418.29	-56.82	1,244.39	1,191.47	52.93	23.511			
7,250.00	6,891.92	7,218.80	7,034.52	37.19	26.21	-110.66	418.88	-105.06	1,255.36	1,201.86	53.50	23.465			
7,300.00	6,923.92	7,268.66	7,048.48	37.46	26.63	-106.50	419.23	-152.89	1,265.70	1,211.58	54.13	23.384			
7,350.00	6,952.90	7,316.75	7,057.97	37.73	27.07	-102.90	419.33	-200.03	1,275.32	1,220.52	54.80	23.271			
7,400.00	6,978.63	7,363.25	7,063.36	37.99	27.54	-99.77	419.23	-246.21	1,284.14	1,228.62	55.52	23.128			
7,450.00	7,000.93	7,408.33	7,065.00	38.25	28.03	-97.06	418.94	-291.25	1,292.07	1,235.79	56.28	22.959			
7,500.00	7,019.61	7,454.05	7,065.00	38.51	28.59	-94.78	418.56	-336.95	1,299.01	1,241.87	57.14	22.735			
7,550.00	7,034.55	7,501.35	7,065.00	38.77	29.16	-92.97	418.16	-384.25	1,304.74	1,246.67	58.08	22.466			
7,600.00	7,045.61	7,549.87	7,065.00	39.04	29.84	-91.64	417.76	-432.78	1,309.11	1,249.93	59.18	22.121			
7,650.00	7,052.73	7,599.26	7,065.00	39.32	30.54	-90.78	417.34	-482.16	1,311.96	1,251.60	60.36	21.736			
7,700.00	7,055.85	7,649.13	7,065.00	39.60	31.32	-90.41	416.92	-532.03	1,313.21	1,251.52	61.69	21.288			
7,713.69	7,056.00	7,662.82	7,065.00	39.68	31.53	-90.39	416.81	-545.72	1,313.27	1,251.20	62.06	21.160			
7,800.00	7,056.00	7,749.13	7,065.00	40.23	32.96	-90.39	416.09	-632.03	1,313.24	1,248.66	64.59	20.333			
7,900.00	7,056.00	7,849.13	7,065.00	41.02	34.73	-90.39	415.25	-732.03	1,313.22	1,245.42	67.80	19.369			
8,000.00	7,056.00	7,949.13	7,065.00	41.97	36.62	-90.39	414.41	-832.02	1,313.19	1,241.91	71.28	18.423			
8,100.00	7,056.00	8,049.13	7,065.00	43.10	38.61	-90.39	413.57	-932.02	1,313.16	1,238.16	75.00	17.509			
8,200.00	7,056.00	8,149.13	7,065.00	44.40	40.68	-90.39	412.73	-1,032.01	1,313.13	1,234.22	78.92	16.640			
8,300.00	7,056.00	8,249.13	7,065.00	45.85	42.83	-90.39	411.90	-1,132.01	1,313.10	1,230.10	83.01	15.819			
8,400.00	7,056.00	8,349.13	7,065.00	47.44	45.04	-90.39	411.06	-1,232.01	1,313.08	1,225.83	87.24	15.051			
8,500.00	7,056.00	8,449.13	7,065.00	49.17	47.30	-90.39	410.22	-1,332.00	1,313.05	1,221.44	91.61	14.333			
8,600.00	7,056.00	8,549.13	7,065.00	51.00	49.61	-90.39	409.38	-1,432.00	1,313.02	1,216.93	96.09	13.665			
8,700.00	7,056.00	8,649.13	7,065.00	52.93	51.96	-90.39	408.54	-1,532.00	1,312.99	1,212.33	100.66	13.044			
8,800.00	7,056.00	8,749.13	7,065.00	54.94	54.34	-90.39	407.71	-1,631.99	1,312.97	1,207.65	105.32	12.467			
8,900.00	7,056.00	8,849.13	7,065.00	57.02	56.75	-90.39	406.87	-1,731.99	1,312.94	1,202.90	110.04	11.931			
9,000.00	7,056.00	8,949.13	7,065.00	59.16	59.19	-90.39	406.03	-1,831.99	1,312.91	1,198.08	114.84	11.433			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Warning			
9,100.00	7,056.00	9,049.13	7,065.00	61.36	61.65	-90.39	405.19	-1,931.98	1,312.88	1,193.20	119.68	10.970				
9,200.00	7,056.00	9,149.13	7,065.00	63.60	64.14	-90.39	404.35	-2,031.98	1,312.86	1,188.28	124.58	10.538				
9,300.00	7,056.00	9,249.13	7,065.00	65.89	66.64	-90.39	403.51	-2,131.98	1,312.83	1,183.31	129.52	10.136				
9,400.00	7,056.00	9,349.13	7,065.00	68.21	69.16	-90.39	402.68	-2,231.97	1,312.80	1,178.30	134.50	9.761				
9,500.00	7,056.00	9,449.13	7,065.00	70.56	71.69	-90.39	401.84	-2,331.97	1,312.77	1,173.26	139.52	9.410				
9,600.00	7,056.00	9,549.13	7,065.00	72.95	74.24	-90.39	401.00	-2,431.97	1,312.75	1,168.18	144.56	9.081				
9,700.00	7,056.00	9,649.13	7,065.00	75.35	76.80	-90.39	400.16	-2,531.96	1,312.72	1,163.08	149.63	8.773				
9,800.00	7,056.00	9,749.13	7,065.00	77.78	79.37	-90.39	399.32	-2,631.96	1,312.69	1,157.96	154.73	8.484				
9,900.00	7,056.00	9,849.13	7,065.00	80.23	81.95	-90.39	398.49	-2,731.96	1,312.66	1,152.81	159.86	8.212				
10,000.00	7,056.00	9,949.13	7,065.00	82.70	84.54	-90.39	397.65	-2,831.95	1,312.63	1,147.64	165.00	7.955				
10,100.00	7,056.00	10,049.13	7,065.00	85.19	87.14	-90.39	396.81	-2,931.95	1,312.61	1,142.45	170.16	7.714				
10,200.00	7,056.00	10,149.13	7,065.00	87.69	89.74	-90.39	395.97	-3,031.94	1,312.58	1,137.24	175.34	7.486				
10,300.00	7,056.00	10,249.13	7,065.00	90.20	92.35	-90.39	395.13	-3,131.94	1,312.55	1,132.02	180.53	7.270				
10,400.00	7,056.00	10,349.13	7,065.00	92.73	94.97	-90.39	394.30	-3,231.94	1,312.52	1,126.78	185.74	7.066				
10,500.00	7,056.00	10,449.13	7,065.00	95.27	97.59	-90.39	393.46	-3,331.93	1,312.50	1,121.54	190.96	6.873				
10,600.00	7,056.00	10,549.13	7,065.00	97.81	100.22	-90.39	392.62	-3,431.93	1,312.47	1,116.27	196.19	6.690				
10,700.00	7,056.00	10,649.13	7,065.00	100.37	102.85	-90.39	391.78	-3,531.93	1,312.44	1,111.00	201.44	6.515				
10,800.00	7,056.00	10,749.13	7,065.00	102.94	105.49	-90.39	390.94	-3,631.92	1,312.41	1,105.72	206.69	6.350				
10,900.00	7,056.00	10,849.13	7,065.00	105.51	108.13	-90.39	390.10	-3,731.92	1,312.39	1,100.43	211.96	6.192				
11,000.00	7,056.00	10,949.13	7,065.00	108.09	110.78	-90.39	389.27	-3,831.92	1,312.36	1,095.13	217.23	6.041				
11,100.00	7,056.00	11,049.13	7,065.00	110.68	113.43	-90.39	388.43	-3,931.91	1,312.33	1,089.82	222.51	5.898				
11,200.00	7,056.00	11,149.13	7,065.00	113.28	116.08	-90.39	387.59	-4,031.91	1,312.30	1,084.50	227.80	5.761				
11,300.00	7,056.00	11,249.13	7,065.00	115.88	118.74	-90.39	386.75	-4,131.91	1,312.28	1,079.18	233.10	5.630				
11,400.00	7,056.00	11,349.13	7,065.00	118.49	121.40	-90.39	385.91	-4,231.90	1,312.25	1,073.85	238.40	5.504				
11,500.00	7,056.00	11,449.13	7,065.00	121.10	124.06	-90.39	385.08	-4,331.90	1,312.22	1,068.51	243.71	5.384				
11,600.00	7,056.00	11,549.13	7,065.00	123.72	126.72	-90.39	384.24	-4,431.90	1,312.19	1,063.17	249.03	5.269				
11,700.00	7,056.00	11,649.13	7,065.00	126.34	129.39	-90.39	383.40	-4,531.89	1,312.16	1,057.82	254.35	5.159				
11,800.00	7,056.00	11,749.13	7,065.00	128.97	132.06	-90.39	382.56	-4,631.89	1,312.14	1,052.46	259.67	5.053				
11,900.00	7,056.00	11,849.13	7,065.00	131.60	134.73	-90.39	381.72	-4,731.88	1,312.11	1,047.11	265.00	4.951				
12,000.00	7,056.00	11,949.13	7,065.00	134.23	137.40	-90.39	380.89	-4,831.88	1,312.08	1,041.74	270.34	4.853				
12,100.00	7,056.00	12,049.13	7,065.00	136.87	140.07	-90.39	380.05	-4,931.88	1,312.05	1,036.38	275.68	4.759				
12,200.00	7,056.00	12,149.13	7,065.00	139.51	142.75	-90.39	379.21	-5,031.87	1,312.03	1,031.01	281.02	4.669				
12,300.00	7,056.00	12,249.13	7,065.00	142.15	145.43	-90.39	378.37	-5,131.87	1,312.00	1,025.63	286.37	4.582				
12,400.00	7,056.00	12,349.13	7,065.00	144.80	148.11	-90.39	377.53	-5,231.87	1,311.97	1,020.25	291.72	4.497				
12,500.00	7,056.00	12,449.13	7,065.00	147.45	150.79	-90.39	376.69	-5,331.86	1,311.94	1,014.87	297.07	4.416				
12,600.00	7,056.00	12,549.13	7,065.00	150.10	153.47	-90.39	375.86	-5,431.86	1,311.92	1,009.49	302.43	4.338				
12,700.00	7,056.00	12,649.13	7,065.00	152.75	156.16	-90.39	375.02	-5,531.86	1,311.89	1,004.10	307.79	4.262				
12,800.00	7,056.00	12,749.13	7,065.00	155.41	158.84	-90.39	374.18	-5,631.85	1,311.86	998.71	313.15	4.189				
12,900.00	7,056.00	12,849.13	7,065.00	158.07	161.53	-90.39	373.34	-5,731.85	1,311.83	993.32	318.52	4.119				
13,000.00	7,056.00	12,949.13	7,065.00	160.73	164.21	-90.39	372.50	-5,831.85	1,311.81	987.92	323.89	4.050				
13,100.00	7,056.00	13,049.13	7,065.00	163.39	166.90	-90.39	371.67	-5,931.84	1,311.78	982.52	329.26	3.984				
13,200.00	7,056.00	13,149.13	7,065.00	166.06	169.59	-90.39	370.83	-6,031.84	1,311.75	977.12	334.63	3.920				
13,300.00	7,056.00	13,249.13	7,065.00	168.73	172.28	-90.39	369.99	-6,131.84	1,311.72	971.72	340.00	3.858				
13,400.00	7,056.00	13,349.13	7,065.00	171.40	174.98	-90.39	369.15	-6,231.83	1,311.69	966.31	345.38	3.798				
13,500.00	7,056.00	13,449.13	7,065.00	174.07	177.67	-90.39	368.31	-6,331.83	1,311.67	960.91	350.76	3.739				
13,600.00	7,056.00	13,549.13	7,065.00	176.74	180.36	-90.39	367.48	-6,431.83	1,311.64	955.50	356.14	3.683				
13,700.00	7,056.00	13,649.13	7,065.00	179.41	183.06	-90.39	366.64	-6,531.82	1,311.61	950.09	361.53	3.628				
13,800.00	7,056.00	13,749.13	7,065.00	182.09	185.75	-90.39	365.80	-6,631.82	1,311.58	944.67	366.91	3.575				
13,900.00	7,056.00	13,849.13	7,065.00	184.76	188.45	-90.39	364.96	-6,731.81	1,311.56	939.26	372.30	3.523				
14,000.00	7,056.00	13,949.13	7,065.00	187.44	191.14	-90.39	364.12	-6,831.81	1,311.53	933.84	377.69	3.473				
14,100.00	7,056.00	14,049.13	7,065.00	190.12	193.84	-90.39	363.28	-6,931.81	1,311.50	928.42	383.08	3.424				
14,200.00	7,056.00	14,149.13	7,065.00	192.80	196.54	-90.39	362.45	-7,031.80	1,311.47	923.01	388.47	3.376				

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,300.00	7,056.00	14,249.13	7,065.00	195.48	199.24	-90.39	361.61	-7,131.80	1,311.45	917.58	393.86	3.330		
14,400.00	7,056.00	14,349.13	7,065.00	198.16	201.94	-90.39	360.77	-7,231.80	1,311.42	912.16	399.26	3.285		
14,500.00	7,056.00	14,449.13	7,065.00	200.85	204.64	-90.39	359.93	-7,331.79	1,311.39	906.74	404.65	3.241		
14,600.00	7,056.00	14,549.13	7,065.00	203.53	207.34	-90.39	359.09	-7,431.79	1,311.36	901.32	410.05	3.198		
14,700.00	7,056.00	14,649.13	7,065.00	206.22	210.04	-90.39	358.26	-7,531.79	1,311.34	895.89	415.45	3.156		
14,800.00	7,056.00	14,749.13	7,065.00	208.91	212.74	-90.39	357.42	-7,631.78	1,311.31	890.46	420.85	3.116		
14,900.00	7,056.00	14,849.13	7,065.00	211.59	215.44	-90.39	356.58	-7,731.78	1,311.28	885.03	426.25	3.076		
15,000.00	7,056.00	14,949.13	7,065.00	214.28	218.15	-90.39	355.74	-7,831.78	1,311.25	879.61	431.65	3.038		
15,100.00	7,056.00	15,049.13	7,065.00	216.97	220.85	-90.39	354.90	-7,931.77	1,311.22	874.18	437.05	3.000		
15,200.00	7,056.00	15,149.13	7,065.00	219.66	223.55	-90.39	354.07	-8,031.77	1,311.20	868.74	442.45	2.963		
15,300.00	7,056.00	15,249.13	7,065.00	222.35	226.26	-90.39	353.23	-8,131.77	1,311.17	863.31	447.86	2.928		
15,400.00	7,056.00	15,349.13	7,065.00	225.04	228.96	-90.39	352.39	-8,231.76	1,311.14	857.88	453.26	2.893		
15,496.19	7,056.00	15,445.32	7,065.00	227.63	231.56	-90.39	351.58	-8,327.95	1,311.12	852.65	458.46	2.860 SF		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Warning	
0.00	0.00	0.00	0.00	0.00	0.00	0.01	80.16	0.00	80.16					
100.00	100.00	100.00	100.00	0.14	0.14	0.01	80.16	0.00	80.16	79.87	0.29	279.512		
200.00	200.00	200.00	200.00	0.50	0.50	0.01	80.16	0.00	80.16	79.15	1.00	79.861		
300.00	300.00	300.00	300.00	0.86	0.86	0.01	80.16	0.00	80.16	78.44	1.72	46.585		
400.00	400.00	400.00	400.00	1.22	1.22	0.01	80.16	0.00	80.16	77.72	2.44	32.884		
500.00	500.00	500.00	500.00	1.58	1.58	0.01	80.16	0.00	80.16	77.00	3.15	25.410		
600.00	600.00	600.00	600.00	1.94	1.94	0.01	80.16	0.00	80.16	76.29	3.87	20.705		
700.00	700.00	700.00	700.00	2.29	2.29	0.01	80.16	0.00	80.16	75.57	4.59	17.470		
800.00	800.00	800.00	800.00	2.65	2.65	0.01	80.16	0.00	80.16	74.85	5.31	15.109		
900.00	900.00	900.00	900.00	3.01	3.01	0.01	80.16	0.00	80.16	74.14	6.02	13.310		
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	0.01	80.16	0.00	80.16	73.42	6.74	11.894		
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	0.01	80.16	0.00	80.16	72.70	7.46	10.750		
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	0.01	80.16	0.00	80.16	71.98	8.17	9.807		
1,203.34	1,203.34	1,203.34	1,203.34	4.10	4.10	0.01	80.16	0.00	80.16	71.96	8.20	9.779 CC		
1,300.00	1,300.00	1,298.67	1,298.67	4.45	4.44	0.07	80.56	0.10	80.57	71.69	8.88	9.069 ES		
1,400.00	1,400.00	1,395.90	1,395.83	4.80	4.79	0.58	83.77	0.85	83.88	74.30	9.58	8.753		
1,500.00	1,500.00	1,492.79	1,492.50	5.16	5.14	1.50	90.16	2.36	90.51	80.24	10.27	8.811		
1,600.00	1,600.00	1,589.13	1,588.34	5.52	5.48	2.65	99.67	4.61	100.46	89.51	10.95	9.177		
1,700.00	1,700.00	1,684.70	1,683.04	5.88	5.83	3.86	112.19	7.57	113.72	102.11	11.61	9.797		
1,800.00	1,800.00	1,779.31	1,776.31	6.24	6.19	5.02	127.61	11.21	130.28	118.03	12.25	10.634		
1,900.00	1,900.00	1,872.77	1,867.88	6.60	6.56	6.07	145.78	15.50	150.08	137.20	12.88	11.653		
2,000.00	2,000.00	1,964.90	1,957.50	6.95	6.94	6.98	166.52	20.40	173.06	159.57	13.49	12.830		
2,100.00	2,100.00	2,055.54	2,044.97	7.31	7.33	7.76	189.66	25.86	199.16	185.08	14.08	14.144		
2,200.00	2,200.00	2,144.56	2,130.09	7.67	7.74	8.43	214.99	31.84	228.30	213.64	14.65	15.578		
2,300.00	2,300.00	2,231.83	2,212.72	8.03	8.17	8.98	242.30	38.30	260.38	245.17	15.21	17.119		
2,400.00	2,399.98	2,317.78	2,293.23	8.39	8.62	8.71	271.59	45.21	293.69	277.95	15.75	18.652		
2,500.00	2,499.84	2,400.00	2,369.36	8.75	9.07	9.11	301.80	52.35	326.61	310.40	16.21	20.149		
2,600.00	2,599.45	2,487.39	2,449.27	9.10	9.59	9.56	336.22	60.48	359.06	342.29	16.78	21.403		
2,700.00	2,698.70	2,571.09	2,524.77	9.46	10.12	9.99	371.40	68.79	391.08	373.80	17.28	22.638		
2,800.00	2,797.47	2,654.10	2,598.56	9.82	10.68	10.43	408.39	77.52	422.64	404.87	17.77	23.790		
2,900.00	2,895.62	2,736.44	2,670.64	10.20	11.26	10.86	447.12	86.67	453.72	435.47	18.25	24.866		
3,000.00	2,993.06	2,818.14	2,741.00	10.58	11.87	11.29	487.53	96.21	484.31	465.59	18.72	25.870		
3,100.00	3,089.64	2,900.00	2,810.28	10.98	12.51	11.73	529.96	106.23	514.40	495.19	19.21	26.783		
3,200.00	3,185.27	2,979.70	2,876.50	11.40	13.17	12.16	573.10	116.42	543.97	524.31	19.66	27.671		
3,300.00	3,279.82	3,059.60	2,941.64	11.85	13.87	12.59	618.14	127.06	573.02	552.90	20.12	28.473		
3,400.00	3,373.17	3,138.96	3,005.03	12.32	14.58	13.03	664.60	138.04	601.54	580.95	20.59	29.212		
3,425.78	3,397.02	3,159.33	3,021.08	12.45	14.77	13.14	676.80	140.92	608.80	588.09	20.71	29.395		
3,500.00	3,465.59	3,228.72	3,075.52	12.83	15.43	13.62	718.68	150.81	629.86	608.56	21.29	29.579		
3,600.00	3,557.97	3,324.36	3,150.53	13.35	16.35	14.23	776.42	164.44	658.31	636.17	22.14	29.734		
3,700.00	3,650.35	3,420.00	3,225.55	13.89	17.28	14.80	834.16	178.08	686.82	663.82	23.00	29.858		
3,800.00	3,742.72	3,515.64	3,300.57	14.45	18.23	15.31	891.89	191.72	715.39	691.51	23.88	29.957		
3,900.00	3,835.10	3,611.28	3,375.59	15.03	19.18	15.79	949.63	205.35	744.01	719.23	24.77	30.033		
4,000.00	3,927.48	3,706.92	3,450.60	15.61	20.15	16.23	1,007.36	218.99	772.67	746.99	25.68	30.091		
4,100.00	4,019.86	3,802.56	3,525.62	16.21	21.12	16.64	1,065.10	232.62	801.37	774.77	26.60	30.132		
4,200.00	4,112.23	3,898.20	3,600.64	16.82	22.10	17.03	1,122.83	246.26	830.11	802.58	27.52	30.160		
4,300.00	4,204.61	3,993.83	3,675.65	17.44	23.09	17.38	1,180.57	259.90	858.87	830.41	28.46	30.177		
4,400.00	4,296.99	4,089.47	3,750.67	18.06	24.08	17.72	1,238.30	273.53	887.67	858.26	29.41	30.183		
4,500.00	4,389.37	4,185.11	3,825.69	18.69	25.08	18.03	1,296.04	287.17	916.50	886.13	30.37	30.182		
4,600.00	4,481.74	4,280.75	3,900.71	19.33	26.08	18.33	1,353.77	300.80	945.34	914.01	31.33	30.174		
4,700.00	4,574.12	4,376.39	3,975.72	19.98	27.08	18.60	1,411.51	314.44	974.21	941.91	32.30	30.160		
4,800.00	4,666.50	4,472.03	4,050.74	20.63	28.09	18.86	1,469.24	328.08	1,003.10	969.82	33.28	30.141		
4,900.00	4,758.88	4,567.67	4,125.76	21.29	29.10	19.11	1,526.98	341.71	1,032.01	997.74	34.26	30.119		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.00	4,851.25	4,663.31	4,200.77	21.95	30.11	19.34	1,584.71	355.35	1,060.93	1,025.67	35.26	30.093		
5,100.00	4,943.63	4,758.95	4,275.79	22.61	31.13	19.56	1,642.45	368.98	1,089.87	1,053.62	36.25	30.064		
5,200.00	5,036.01	4,854.59	4,350.81	23.28	32.14	19.77	1,700.18	382.62	1,118.82	1,081.57	37.25	30.033		
5,300.00	5,128.39	4,950.23	4,425.83	23.95	33.16	19.97	1,757.92	396.26	1,147.79	1,109.53	38.26	30.000		
5,400.00	5,220.76	5,045.87	4,500.84	24.62	34.18	20.16	1,815.65	409.89	1,176.76	1,137.49	39.27	29.966		
5,500.00	5,313.14	5,141.51	4,575.86	25.30	35.20	20.34	1,873.39	423.53	1,205.75	1,165.47	40.28	29.931		
5,600.00	5,405.52	5,237.14	4,650.88	25.98	36.23	20.51	1,931.12	437.17	1,234.75	1,193.45	41.30	29.895		
5,700.00	5,497.90	5,332.78	4,725.90	26.67	37.25	20.67	1,988.86	450.80	1,263.76	1,221.43	42.33	29.858		
5,800.00	5,590.28	5,428.42	4,800.91	27.35	38.28	20.83	2,046.59	464.44	1,292.78	1,249.42	43.35	29.821		
5,900.00	5,682.65	5,524.06	4,875.93	28.04	39.31	20.98	2,104.33	478.07	1,321.80	1,277.42	44.38	29.783		
6,000.00	5,775.03	5,619.70	4,950.95	28.73	40.33	21.12	2,162.06	491.71	1,350.84	1,305.42	45.41	29.746		
6,100.00	5,867.41	5,715.34	5,025.96	29.42	41.36	21.26	2,219.80	505.35	1,379.88	1,333.43	46.45	29.708		
6,200.00	5,959.79	5,810.98	5,100.98	30.11	42.39	21.39	2,277.53	518.98	1,408.92	1,361.44	47.49	29.670		
6,300.00	6,052.16	5,906.62	5,176.00	30.80	43.42	21.52	2,335.27	532.62	1,437.98	1,389.45	48.53	29.633		
6,400.00	6,144.54	6,002.26	5,251.02	31.50	44.46	21.64	2,393.00	546.25	1,467.04	1,417.47	49.57	29.596		
6,500.00	6,236.92	6,097.90	5,326.03	32.20	45.49	21.75	2,450.74	559.89	1,496.11	1,445.49	50.61	29.559		
6,600.00	6,329.30	6,193.54	5,401.05	32.90	46.52	21.87	2,508.47	573.53	1,525.18	1,473.52	51.66	29.523		
6,700.00	6,421.67	6,289.18	5,476.07	33.60	47.55	21.97	2,566.21	587.16	1,554.25	1,501.54	52.71	29.486		
6,800.00	6,514.05	6,384.82	5,551.08	34.30	48.59	22.08	2,623.94	600.80	1,583.34	1,529.57	53.76	29.451		
6,809.17	6,522.52	6,393.58	5,557.96	34.36	48.68	22.09	2,629.24	602.05	1,586.00	1,532.14	53.86	29.447		
6,850.00	6,560.22	6,432.40	5,588.41	34.65	49.10	30.75	2,652.67	607.58	1,598.42	1,544.11	54.31	29.433		
6,900.00	6,606.13	6,479.08	5,625.03	35.00	49.61	40.57	2,680.85	614.24	1,615.04	1,560.13	54.91	29.414		
6,950.00	6,651.44	6,524.51	5,660.65	35.34	50.10	48.85	2,708.27	620.71	1,633.15	1,577.59	55.56	29.393		
7,000.00	6,695.79	6,568.32	5,695.02	35.67	50.58	55.34	2,734.72	626.96	1,652.69	1,596.42	56.27	29.370		
7,050.00	6,738.87	6,610.20	5,727.87	36.00	51.03	60.17	2,760.00	632.93	1,673.59	1,616.56	57.03	29.344		
7,100.00	6,780.32	6,649.81	5,758.94	36.31	51.46	63.58	2,783.92	638.58	1,695.81	1,637.95	57.85	29.312		
7,150.00	6,819.85	6,686.86	5,788.00	36.61	51.86	65.81	2,806.28	643.86	1,719.29	1,660.56	58.73	29.275		
7,200.00	6,857.14	6,721.07	5,814.83	36.91	52.23	67.06	2,826.93	648.74	1,743.98	1,684.32	59.66	29.231		
7,250.00	6,891.92	6,752.17	5,839.23	37.19	52.57	67.48	2,845.71	653.17	1,769.82	1,709.17	60.65	29.182		
7,300.00	6,923.92	6,779.94	5,861.01	37.46	52.87	67.19	2,862.47	657.13	1,796.73	1,735.05	61.68	29.128		
7,350.00	6,952.90	6,804.15	5,880.00	37.73	53.13	66.26	2,877.09	660.58	1,824.63	1,761.86	62.77	29.070		
7,400.00	6,978.63	6,824.63	5,896.06	37.99	53.35	64.77	2,889.45	663.50	1,853.39	1,789.51	63.88	29.012		
7,450.00	7,000.93	6,841.21	5,909.07	38.25	53.53	62.75	2,899.46	665.87	1,882.91	1,817.88	65.03	28.956		
7,500.00	7,019.61	6,853.77	5,918.92	38.51	53.67	60.28	2,907.04	667.66	1,913.01	1,846.82	66.18	28.905		
7,550.00	7,034.55	6,862.23	5,925.55	38.77	53.76	57.39	2,912.15	668.87	1,943.53	1,876.19	67.34	28.862		
7,600.00	7,045.61	6,866.50	5,928.91	39.04	53.81	54.17	2,914.73	669.47	1,974.28	1,905.80	68.48	28.831		
7,650.00	7,052.73	6,866.56	5,928.95	39.32	53.81	50.68	2,914.76	669.48	2,005.04	1,935.45	69.59	28.814		
7,700.00	7,055.85	6,862.41	5,925.70	39.60	53.76	47.00	2,912.26	668.89	2,035.59	1,964.94	70.65	28.812		
7,713.69	7,056.00	6,860.55	5,924.24	39.68	53.74	45.96	2,911.13	668.63	2,043.88	1,972.95	70.93	28.815		
7,800.00	7,056.00	6,847.79	5,914.23	40.23	53.60	45.52	2,903.43	666.81	2,097.15	2,024.48	72.66	28.861		
7,900.00	7,056.00	6,833.01	5,902.64	41.02	53.44	45.01	2,894.51	664.70	2,161.43	2,086.85	74.58	28.981		
8,000.00	7,056.00	9,980.72	7,252.00	41.97	71.02	95.11	3,917.39	-862.33	2,198.71	2,114.67	84.04	26.164		
8,100.00	7,056.00	10,080.72	7,252.00	43.10	71.51	95.11	3,916.51	-962.33	2,198.69	2,110.90	87.79	25.045		
8,200.00	7,056.00	10,180.72	7,252.00	44.40	72.12	95.11	3,915.63	-1,062.32	2,198.68	2,106.96	91.72	23.972		
8,300.00	7,056.00	10,280.72	7,252.00	45.85	72.85	95.11	3,914.75	-1,162.32	2,198.66	2,102.86	95.80	22.950		
8,400.00	7,056.00	10,380.72	7,252.00	47.44	73.73	95.11	3,913.87	-1,262.31	2,198.65	2,098.63	100.02	21.982		
8,500.00	7,056.00	10,480.72	7,252.00	49.17	74.76	95.11	3,912.98	-1,362.31	2,198.63	2,094.28	104.36	21.069		
8,600.00	7,056.00	10,580.72	7,252.00	51.00	75.96	95.11	3,912.10	-1,462.31	2,198.62	2,089.82	108.79	20.210		
8,700.00	7,056.00	10,680.72	7,252.00	52.93	77.30	95.11	3,911.22	-1,562.30	2,198.60	2,085.28	113.32	19.402		
8,800.00	7,056.00	10,780.72	7,252.00	54.94	78.80	95.11	3,910.34	-1,662.30	2,198.58	2,080.67	117.92	18.645		
8,900.00	7,056.00	10,880.72	7,252.00	57.02	80.44	95.11	3,909.46	-1,762.30	2,198.57	2,075.98	122.59	17.934		
9,000.00	7,056.00	10,980.72	7,252.00	59.16	82.20	95.11	3,908.58	-1,862.29	2,198.55	2,071.23	127.32	17.267		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Highside		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,100.00	7,056.00	11,080.72	7,252.00	61.36	84.06	95.11	3,907.70	-1,962.29	2,198.54	2,066.43	132.11	16.642			
9,200.00	7,056.00	11,180.72	7,252.00	63.60	86.01	95.11	3,906.81	-2,062.28	2,198.52	2,061.57	136.95	16.054			
9,300.00	7,056.00	11,280.72	7,252.00	65.89	88.05	95.11	3,905.93	-2,162.28	2,198.51	2,056.68	141.83	15.501			
9,400.00	7,056.00	11,380.72	7,252.00	68.21	90.15	95.11	3,905.05	-2,262.28	2,198.49	2,051.75	146.74	14.982			
9,500.00	7,056.00	11,480.72	7,252.00	70.56	92.31	95.11	3,904.17	-2,362.27	2,198.48	2,046.78	151.70	14.493			
9,600.00	7,056.00	11,580.72	7,252.00	72.95	94.52	95.11	3,903.29	-2,462.27	2,198.46	2,041.78	156.68	14.031			
9,700.00	7,056.00	11,680.72	7,252.00	75.35	96.77	95.11	3,902.41	-2,562.26	2,198.44	2,036.75	161.69	13.596			
9,800.00	7,056.00	11,780.72	7,252.00	77.78	99.06	95.11	3,901.53	-2,662.26	2,198.43	2,031.69	166.73	13.185			
9,900.00	7,056.00	11,880.72	7,252.00	80.23	101.38	95.12	3,900.64	-2,762.26	2,198.41	2,026.62	171.80	12.797			
10,000.00	7,056.00	11,980.72	7,252.00	82.70	103.73	95.12	3,899.76	-2,862.25	2,198.40	2,021.52	176.88	12.429			
10,100.00	7,056.00	12,080.72	7,252.00	85.19	106.11	95.12	3,898.88	-2,962.25	2,198.38	2,016.40	181.98	12.080			
10,200.00	7,056.00	12,180.72	7,252.00	87.69	108.51	95.12	3,898.00	-3,062.25	2,198.37	2,011.26	187.11	11.749			
10,300.00	7,056.00	12,280.72	7,252.00	90.20	110.93	95.12	3,897.12	-3,162.24	2,198.35	2,006.11	192.24	11.435			
10,400.00	7,056.00	12,380.72	7,252.00	92.73	113.36	95.12	3,896.24	-3,262.24	2,198.34	2,000.94	197.40	11.137			
10,500.00	7,056.00	12,480.72	7,252.00	95.27	115.82	95.12	3,895.36	-3,362.23	2,198.32	1,995.76	202.56	10.852			
10,600.00	7,056.00	12,580.72	7,252.00	97.81	118.29	95.12	3,894.47	-3,462.23	2,198.30	1,990.56	207.75	10.582			
10,700.00	7,056.00	12,680.72	7,252.00	100.37	120.77	95.12	3,893.59	-3,562.23	2,198.29	1,985.35	212.94	10.324			
10,800.00	7,056.00	12,780.72	7,252.00	102.94	123.26	95.12	3,892.71	-3,662.22	2,198.27	1,980.13	218.14	10.077			
10,900.00	7,056.00	12,880.72	7,252.00	105.51	125.77	95.12	3,891.83	-3,762.22	2,198.26	1,974.90	223.36	9.842			
11,000.00	7,056.00	12,980.72	7,252.00	108.09	128.28	95.12	3,890.95	-3,862.21	2,198.24	1,969.66	228.58	9.617			
11,100.00	7,056.00	13,080.72	7,252.00	110.68	130.81	95.12	3,890.07	-3,962.21	2,198.23	1,964.41	233.81	9.402			
11,200.00	7,056.00	13,180.72	7,252.00	113.28	133.34	95.12	3,889.19	-4,062.21	2,198.21	1,959.16	239.05	9.195			
11,300.00	7,056.00	13,280.72	7,252.00	115.88	135.89	95.12	3,888.30	-4,162.20	2,198.19	1,953.89	244.30	8.998			
11,400.00	7,056.00	13,380.72	7,252.00	118.49	138.44	95.12	3,887.42	-4,262.20	2,198.18	1,948.62	249.56	8.808			
11,500.00	7,056.00	13,480.72	7,252.00	121.10	140.99	95.12	3,886.54	-4,362.19	2,198.16	1,943.34	254.82	8.626			
11,600.00	7,056.00	13,580.72	7,252.00	123.72	143.56	95.12	3,885.66	-4,462.19	2,198.15	1,938.05	260.09	8.451			
11,700.00	7,056.00	13,680.72	7,252.00	126.34	146.13	95.12	3,884.78	-4,562.19	2,198.13	1,932.76	265.37	8.283			
11,800.00	7,056.00	13,780.72	7,252.00	128.97	148.71	95.12	3,883.90	-4,662.18	2,198.12	1,927.46	270.65	8.122			
11,900.00	7,056.00	13,880.72	7,252.00	131.60	151.29	95.12	3,883.02	-4,762.18	2,198.10	1,922.16	275.94	7.966			
12,000.00	7,056.00	13,980.72	7,252.00	134.23	153.88	95.12	3,882.14	-4,862.18	2,198.09	1,916.85	281.23	7.816			
12,100.00	7,056.00	14,080.72	7,252.00	136.87	156.47	95.12	3,881.25	-4,962.17	2,198.07	1,911.54	286.53	7.671			
12,200.00	7,056.00	14,180.72	7,252.00	139.51	159.07	95.12	3,880.37	-5,062.17	2,198.05	1,906.22	291.83	7.532			
12,300.00	7,056.00	14,280.72	7,252.00	142.15	161.67	95.12	3,879.49	-5,162.16	2,198.04	1,900.90	297.14	7.397			
12,400.00	7,056.00	14,380.72	7,252.00	144.80	164.27	95.12	3,878.61	-5,262.16	2,198.02	1,895.58	302.45	7.267			
12,500.00	7,056.00	14,480.72	7,252.00	147.45	166.88	95.12	3,877.73	-5,362.16	2,198.01	1,890.25	307.76	7.142			
12,600.00	7,056.00	14,580.72	7,252.00	150.10	169.50	95.12	3,876.85	-5,462.15	2,197.99	1,884.91	313.08	7.021			
12,700.00	7,056.00	14,680.72	7,252.00	152.75	172.11	95.12	3,875.97	-5,562.15	2,197.98	1,879.57	318.40	6.903			
12,800.00	7,056.00	14,780.72	7,252.00	155.41	174.73	95.12	3,875.08	-5,662.14	2,197.96	1,874.23	323.73	6.790			
12,900.00	7,056.00	14,880.72	7,252.00	158.07	177.35	95.12	3,874.20	-5,762.14	2,197.95	1,868.89	329.06	6.680			
13,000.00	7,056.00	14,980.72	7,252.00	160.73	179.98	95.12	3,873.32	-5,862.14	2,197.93	1,863.54	334.39	6.573			
13,100.00	7,056.00	15,080.72	7,252.00	163.39	182.61	95.12	3,872.44	-5,962.13	2,197.91	1,858.19	339.72	6.470			
13,200.00	7,056.00	15,180.72	7,252.00	166.06	185.24	95.12	3,871.56	-6,062.13	2,197.90	1,852.84	345.06	6.370			
13,300.00	7,056.00	15,280.72	7,252.00	168.73	187.88	95.12	3,870.68	-6,162.12	2,197.88	1,847.49	350.40	6.273			
13,400.00	7,056.00	15,380.72	7,252.00	171.40	190.51	95.12	3,869.80	-6,262.12	2,197.87	1,842.13	355.74	6.178			
13,500.00	7,056.00	15,480.72	7,252.00	174.07	193.15	95.12	3,868.91	-6,362.12	2,197.85	1,836.77	361.08	6.087			
13,600.00	7,056.00	15,580.72	7,252.00	176.74	195.79	95.12	3,868.03	-6,462.11	2,197.84	1,831.41	366.43	5.998			
13,700.00	7,056.00	15,680.72	7,252.00	179.41	198.44	95.12	3,867.15	-6,562.11	2,197.82	1,826.04	371.78	5.912			
13,800.00	7,056.00	15,780.72	7,252.00	182.09	201.08	95.12	3,866.27	-6,662.11	2,197.81	1,820.68	377.13	5.828			
13,900.00	7,056.00	15,880.72	7,252.00	184.76	203.73	95.12	3,865.39	-6,762.10	2,197.79	1,815.31	382.48	5.746			
14,000.00	7,056.00	15,980.72	7,252.00	187.44	206.38	95.12	3,864.51	-6,862.10	2,197.77	1,809.94	387.84	5.667			
14,100.00	7,056.00	16,080.72	7,252.00	190.12	209.03	95.12	3,863.63	-6,962.09	2,197.76	1,804.57	393.19	5.590			
14,200.00	7,056.00	16,180.72	7,252.00	192.80	211.69	95.12	3,862.74	-7,062.09	2,197.74	1,799.19	398.55	5.514			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,300.00	7,056.00	16,280.72	7,252.00	195.48	214.34	95.12	3,861.86	-7,162.09	2,197.73	1,793.82	403.91	5.441		
14,400.00	7,056.00	16,380.72	7,252.00	198.16	217.00	95.12	3,860.98	-7,262.08	2,197.71	1,788.44	409.27	5.370		
14,500.00	7,056.00	16,480.72	7,252.00	200.85	219.66	95.12	3,860.10	-7,362.08	2,197.70	1,783.06	414.64	5.300		
14,600.00	7,056.00	16,580.72	7,252.00	203.53	222.32	95.12	3,859.22	-7,462.07	2,197.68	1,777.68	420.00	5.233		
14,700.00	7,056.00	16,680.72	7,252.00	206.22	224.98	95.12	3,858.34	-7,562.07	2,197.67	1,772.30	425.37	5.167		
14,800.00	7,056.00	16,780.72	7,252.00	208.91	227.64	95.12	3,857.46	-7,662.07	2,197.65	1,766.92	430.73	5.102		
14,900.00	7,056.00	16,880.72	7,252.00	211.59	230.31	95.12	3,856.57	-7,762.06	2,197.63	1,761.53	436.10	5.039		
15,000.00	7,056.00	16,980.72	7,252.00	214.28	232.97	95.12	3,855.69	-7,862.06	2,197.62	1,756.14	441.47	4.978		
15,100.00	7,056.00	17,080.72	7,252.00	216.97	235.64	95.12	3,854.81	-7,962.05	2,197.60	1,750.76	446.85	4.918		
15,200.00	7,056.00	17,180.72	7,252.00	219.66	238.31	95.12	3,853.93	-8,062.05	2,197.59	1,745.37	452.22	4.860		
15,300.00	7,056.00	17,280.72	7,252.00	222.35	240.98	95.12	3,853.05	-8,162.05	2,197.57	1,739.98	457.59	4.802		
15,400.00	7,056.00	17,380.72	7,252.00	225.04	243.65	95.12	3,852.17	-8,262.04	2,197.56	1,734.59	462.97	4.747		
15,414.22	7,056.00	17,394.94	7,252.00	225.43	244.03	95.12	3,852.04	-8,276.26	2,197.55	1,733.82	463.73	4.739		
15,496.19	7,056.00	17,395.63	7,252.00	227.63	244.05	95.12	3,852.04	-8,276.95	2,199.04	1,731.60	467.44	4.704 SF		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.58	0.00	65.58	65.58					
100.00	100.00	100.00	100.00	0.14	0.14	0.00	65.58	0.00	65.58	65.29	0.29	228.671			
200.00	200.00	200.00	200.00	0.50	0.50	0.00	65.58	0.00	65.58	64.57	1.00	65.335			
300.00	300.00	300.00	300.00	0.86	0.86	0.00	65.58	0.00	65.58	63.86	1.72	38.112			
400.00	400.00	400.00	400.00	1.22	1.22	0.00	65.58	0.00	65.58	63.14	2.44	26.903			
500.00	500.00	500.00	500.00	1.58	1.58	0.00	65.58	0.00	65.58	62.42	3.15	20.788			
600.00	600.00	600.00	600.00	1.94	1.94	0.00	65.58	0.00	65.58	61.71	3.87	16.939			
700.00	700.00	700.00	700.00	2.29	2.29	0.00	65.58	0.00	65.58	60.99	4.59	14.292			
800.00	800.00	800.00	800.00	2.65	2.65	0.00	65.58	0.00	65.58	60.27	5.31	12.361			
900.00	900.00	900.00	900.00	3.01	3.01	0.00	65.58	0.00	65.58	59.56	6.02	10.889			
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	0.00	65.58	0.00	65.58	58.84	6.74	9.731			
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	0.00	65.58	0.00	65.58	58.12	7.46	8.795			
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	0.00	65.58	0.00	65.58	57.40	8.17	8.024			
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	0.00	65.58	0.00	65.58	56.69	8.89	7.376			
1,303.35	1,303.35	1,303.35	1,303.35	4.46	4.46	0.00	65.58	0.00	65.58	56.66	8.91	7.357 CC			
1,400.00	1,400.00	1,398.91	1,398.91	4.80	4.80	0.09	65.98	0.11	65.99	56.39	9.60	6.873 ES			
1,500.00	1,500.00	1,496.62	1,496.62	5.16	5.15	0.79	69.20	0.96	69.30	59.00	10.30	6.727			
1,600.00	1,600.00	1,593.99	1,593.70	5.52	5.50	2.01	75.62	2.65	75.93	64.94	10.99	6.909			
1,700.00	1,700.00	1,690.80	1,690.00	5.88	5.85	3.47	85.15	5.17	85.90	74.23	11.66	7.364			
1,800.00	1,800.00	1,786.84	1,785.15	6.24	6.20	4.96	97.72	8.48	99.20	86.88	12.32	8.050			
1,900.00	1,900.00	1,881.89	1,878.84	6.60	6.56	6.34	113.18	12.57	115.83	102.86	12.96	8.935			
2,000.00	2,000.00	1,975.78	1,970.81	6.95	6.92	7.53	131.40	17.38	135.72	122.13	13.59	9.988			
2,100.00	2,100.00	2,068.32	2,060.81	7.31	7.30	8.54	152.20	22.87	158.81	144.62	14.19	11.190			
2,200.00	2,200.00	2,159.35	2,148.63	7.67	7.70	9.38	175.39	28.99	185.04	170.26	14.78	12.521			
2,300.00	2,300.00	2,248.74	2,234.07	8.03	8.11	10.08	200.77	35.69	214.31	198.97	15.35	13.966			
2,400.00	2,399.98	2,336.86	2,317.45	8.39	8.53	9.93	228.30	42.96	244.91	229.02	15.89	15.411			
2,500.00	2,499.84	2,424.20	2,399.20	8.75	8.99	10.48	258.03	50.80	275.19	258.76	16.42	16.757			
2,600.00	2,599.45	2,510.79	2,479.29	9.10	9.46	11.03	289.87	59.21	305.11	288.17	16.94	18.011			
2,700.00	2,698.70	2,600.00	2,560.71	9.46	9.99	11.62	325.10	68.51	334.71	317.19	17.52	19.109			
2,800.00	2,797.47	2,681.80	2,634.35	9.82	10.50	12.15	359.54	77.60	363.89	345.95	17.94	20.282			
2,900.00	2,895.62	2,766.27	2,709.28	10.20	11.06	12.71	397.23	87.55	392.73	374.30	18.43	21.311			
3,000.00	2,993.06	2,850.08	2,782.47	10.58	11.66	13.27	436.71	97.97	421.17	402.27	18.91	22.276			
3,100.00	3,089.64	2,933.26	2,853.88	10.98	12.28	13.83	477.93	108.85	449.23	429.85	19.38	23.178			
3,200.00	3,185.27	3,015.81	2,923.51	11.40	12.92	14.39	520.81	120.17	476.88	457.03	19.85	24.021			
3,300.00	3,279.82	3,100.00	2,993.18	11.85	13.62	14.96	566.51	132.24	504.13	483.76	20.37	24.745			
3,400.00	3,373.17	3,185.69	3,062.62	12.32	14.36	15.55	615.04	145.05	531.00	510.06	20.94	25.353			
3,425.78	3,397.02	3,202.73	3,076.28	12.45	14.51	15.66	624.89	147.65	537.76	516.78	20.98	25.631			
3,500.00	3,465.59	3,274.17	3,133.56	12.83	15.16	16.26	666.18	158.55	557.10	535.50	21.60	25.793			
3,600.00	3,557.97	3,370.43	3,210.72	13.35	16.05	17.00	721.82	173.23	583.25	560.80	22.45	25.980			
3,700.00	3,650.35	3,466.69	3,287.88	13.89	16.95	17.68	777.46	187.92	609.49	586.17	23.32	26.136			
3,800.00	3,742.72	3,562.94	3,365.04	14.45	17.86	18.30	833.10	202.61	635.79	611.58	24.21	26.265			
3,900.00	3,835.10	3,659.20	3,442.20	15.03	18.79	18.88	888.73	217.30	662.16	637.05	25.11	26.372			
4,000.00	3,927.48	3,755.45	3,519.36	15.61	19.72	19.41	944.37	231.98	688.59	662.56	26.03	26.458			
4,100.00	4,019.86	3,851.71	3,596.52	16.21	20.66	19.90	1,000.01	246.67	715.07	688.11	26.96	26.527			
4,200.00	4,112.23	3,947.96	3,673.68	16.82	21.61	20.36	1,055.65	261.36	741.59	713.69	27.90	26.581			
4,300.00	4,204.61	4,044.22	3,750.85	17.44	22.57	20.78	1,111.28	276.04	768.16	739.31	28.85	26.623			
4,400.00	4,296.99	4,140.47	3,828.01	18.06	23.53	21.18	1,166.92	290.73	794.76	764.94	29.82	26.654			
4,500.00	4,389.37	4,236.73	3,905.17	18.69	24.49	21.55	1,222.56	305.42	821.40	790.60	30.79	26.675			
4,600.00	4,481.74	4,332.98	3,982.33	19.33	25.47	21.90	1,278.19	320.11	848.06	816.29	31.78	26.689			
4,700.00	4,574.12	4,429.24	4,059.49	19.98	26.44	22.22	1,333.83	334.79	874.75	841.99	32.77	26.695			
4,800.00	4,666.50	4,525.49	4,136.65	20.63	27.42	22.53	1,389.47	349.48	901.47	867.70	33.77	26.696			
4,900.00	4,758.88	4,621.75	4,213.81	21.29	28.40	22.82	1,445.11	364.17	928.21	893.44	34.78	26.692			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Separation		Warning	Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.00	4,851.25	4,718.00	4,290.97	21.95	29.38	23.09	1,500.74	378.85	954.97	919.18	35.79	26.683				
5,100.00	4,943.63	4,814.26	4,368.14	22.61	30.37	23.35	1,556.38	393.54	981.75	944.94	36.81	26.671				
5,200.00	5,036.01	4,910.52	4,445.30	23.28	31.36	23.60	1,612.02	408.23	1,008.55	970.72	37.84	26.656				
5,300.00	5,128.39	5,006.77	4,522.46	23.95	32.35	23.83	1,667.66	422.92	1,035.37	996.50	38.87	26.639				
5,400.00	5,220.76	5,103.03	4,598.62	24.62	33.34	24.05	1,723.29	437.60	1,062.19	1,022.29	39.90	26.619				
5,500.00	5,313.14	5,199.28	4,676.78	25.30	34.33	24.26	1,778.93	452.29	1,089.04	1,048.09	40.94	26.598				
5,600.00	5,405.52	5,295.54	4,753.94	25.98	35.33	24.46	1,834.57	466.98	1,115.89	1,073.90	41.99	26.575				
5,700.00	5,497.90	5,391.79	4,831.10	26.67	36.32	24.65	1,890.21	481.66	1,142.76	1,099.72	43.04	26.551				
5,800.00	5,590.28	5,488.05	4,908.27	27.35	37.32	24.83	1,945.84	496.35	1,169.64	1,125.55	44.09	26.526				
5,900.00	5,682.65	5,584.30	4,985.43	28.04	38.32	25.00	2,001.48	511.04	1,196.53	1,151.38	45.15	26.500				
6,000.00	5,775.03	5,680.56	5,062.59	28.73	39.32	25.17	2,057.12	525.72	1,223.43	1,177.22	46.21	26.474				
6,100.00	5,867.41	5,776.81	5,139.75	29.42	40.32	25.33	2,112.75	540.41	1,250.34	1,203.06	47.28	26.447				
6,200.00	5,959.79	5,873.07	5,216.91	30.11	41.33	25.48	2,168.39	555.10	1,277.25	1,228.91	48.34	26.420				
6,300.00	6,052.16	5,969.32	5,294.07	30.80	42.33	25.62	2,224.03	569.79	1,304.18	1,254.76	49.41	26.393				
6,400.00	6,144.54	6,065.58	5,371.23	31.50	43.33	25.76	2,279.67	584.47	1,331.11	1,280.62	50.49	26.365				
6,500.00	6,236.92	6,161.83	5,448.39	32.20	44.34	25.90	2,335.30	599.16	1,358.05	1,306.49	51.56	26.338				
6,600.00	6,329.30	6,258.09	5,525.56	32.90	45.35	26.03	2,390.94	613.85	1,384.99	1,332.35	52.64	26.310				
6,700.00	6,421.67	6,354.34	5,602.72	33.60	46.35	26.15	2,446.58	628.53	1,411.95	1,358.23	53.72	26.283				
6,800.00	6,514.05	6,450.60	5,679.88	34.30	47.36	26.27	2,502.22	643.22	1,438.90	1,384.10	54.80	26.256				
6,809.17	6,522.52	6,459.43	5,686.95	34.36	47.45	26.28	2,507.32	644.57	1,441.38	1,386.47	54.90	26.253				
6,850.00	6,560.22	6,498.48	5,718.26	34.65	47.86	35.07	2,529.89	650.53	1,453.02	1,397.65	55.37	26.243				
6,900.00	6,606.13	6,545.41	5,755.88	35.00	48.35	45.04	2,557.02	657.69	1,468.97	1,412.97	56.00	26.233				
6,950.00	6,651.44	6,591.04	5,792.46	35.34	48.83	53.44	2,583.39	664.65	1,486.71	1,430.02	56.69	26.225				
7,000.00	6,695.79	6,635.01	5,827.71	35.67	49.29	60.04	2,608.81	671.36	1,506.19	1,448.74	57.45	26.219				
7,050.00	6,738.87	6,676.99	5,861.36	36.00	49.73	64.94	2,633.07	677.77	1,527.33	1,469.07	58.26	26.215				
7,100.00	6,780.32	6,716.66	5,893.16	36.31	50.15	68.39	2,656.00	683.82	1,550.11	1,490.97	59.14	26.211				
7,150.00	6,819.85	6,753.72	5,922.87	36.61	50.53	70.61	2,677.43	689.47	1,574.45	1,514.38	60.07	26.209				
7,200.00	6,857.14	6,787.89	5,950.26	36.91	50.89	71.81	2,697.17	694.69	1,600.30	1,539.24	61.06	26.207				
7,250.00	6,891.92	6,818.90	5,975.12	37.19	51.22	72.12	2,715.10	699.42	1,627.59	1,565.49	62.11	26.207				
7,300.00	6,923.92	6,846.52	5,997.26	37.46	51.51	71.65	2,731.07	703.63	1,656.22	1,593.03	63.19	26.209				
7,350.00	6,952.90	6,870.54	6,016.52	37.73	51.76	70.47	2,744.95	707.30	1,686.09	1,621.78	64.31	26.217				
7,400.00	6,978.63	6,890.78	6,032.74	37.99	51.97	68.64	2,756.65	710.39	1,717.06	1,651.60	65.46	26.231				
7,450.00	7,000.93	6,907.09	6,045.81	38.25	52.14	66.20	2,766.07	712.87	1,748.98	1,682.36	66.62	26.254				
7,500.00	7,019.61	6,908.07	6,058.00	38.51	52.84	88.29	3,484.73	-363.42	1,768.49	1,699.17	69.31	25.514				
7,550.00	7,034.55	6,913.37	6,058.00	38.77	52.90	89.06	3,484.31	-410.71	1,762.03	1,691.31	70.72	24.916				
7,600.00	7,045.61	6,918.89	6,058.00	39.04	52.98	89.59	3,483.88	-459.24	1,757.32	1,685.17	72.15	24.356				
7,650.00	7,052.73	6,923.28	6,058.00	39.32	53.07	89.92	3,483.45	-508.62	1,754.33	1,680.71	73.62	23.829				
7,700.00	7,055.85	6,928.15	6,058.00	39.60	53.18	90.06	3,483.01	-558.49	1,753.02	1,677.92	75.10	23.341				
7,713.69	7,056.00	6,929.84	6,058.00	39.68	53.22	90.07	3,482.89	-572.18	1,752.96	1,677.45	75.51	23.216				
7,800.00	7,056.00	6,931.15	6,058.00	40.23	53.48	90.07	3,482.13	-658.49	1,752.94	1,674.75	78.20	22.417				
7,900.00	7,056.00	6,941.15	6,058.00	41.02	53.86	90.07	3,481.25	-758.48	1,752.93	1,671.38	81.55	21.496				
8,000.00	7,056.00	6,951.15	6,058.00	41.97	54.37	90.07	3,480.37	-858.48	1,752.91	1,667.79	85.12	20.593				
8,100.00	7,056.00	6,961.15	6,058.00	43.10	55.03	90.07	3,479.48	-958.47	1,752.90	1,664.00	88.90	19.717				
8,200.00	7,056.00	6,971.15	6,058.00	44.40	55.85	90.07	3,478.60	-1,058.47	1,752.88	1,660.03	92.86	18.878				
8,300.00	7,056.00	6,981.15	6,058.00	45.85	56.85	90.07	3,477.72	-1,158.47	1,752.87	1,655.91	96.96	18.078				
8,400.00	7,056.00	6,991.15	6,058.00	47.44	58.04	90.07	3,476.84	-1,258.46	1,752.85	1,651.65	101.20	17.321				
8,500.00	7,056.00	7,001.15	6,058.00	49.17	59.42	90.07	3,475.96	-1,358.46	1,752.84	1,647.28	105.55	16.606				
8,600.00	7,056.00	7,011.15	6,058.00	51.00	60.98	90.07	3,475.08	-1,458.45	1,752.82	1,642.81	110.01	15.934				
8,700.00	7,056.00	7,021.15	6,058.00	52.93	62.68	90.07	3,474.20	-1,558.45	1,752.80	1,638.25	114.55	15.302				
8,800.00	7,056.00	7,031.15	6,058.00	54.94	64.52	90.07	3,473.31	-1,658.45	1,752.79	1,633.62	119.17	14.708				
8,900.00	7,056.00	7,041.15	6,058.00	57.02	66.47	90.07	3,472.43	-1,758.44	1,752.77	1,628.91	123.86	14.151				
9,000.00	7,056.00	7,051.15	6,058.00	59.16	68.50	90.07	3,471.55	-1,858.44	1,752.76	1,624.15	128.61	13.628				

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
9,100.00	7,056.00	10,681.15	7,058.00	61.36	80.61	90.07	3,470.67	-1,958.43	1,752.74	1,619.32	133.42	13.137		
9,200.00	7,056.00	10,781.15	7,058.00	63.60	82.79	90.07	3,469.79	-2,058.43	1,752.73	1,614.45	138.27	12.676		
9,300.00	7,056.00	10,881.15	7,058.00	65.89	85.01	90.07	3,468.91	-2,158.43	1,752.71	1,609.54	143.17	12.242		
9,400.00	7,056.00	10,981.15	7,058.00	68.21	87.28	90.07	3,468.03	-2,258.42	1,752.70	1,604.59	148.11	11.834		
9,500.00	7,056.00	11,081.15	7,058.00	70.56	89.59	90.07	3,467.15	-2,358.42	1,752.68	1,599.60	153.08	11.450		
9,600.00	7,056.00	11,181.15	7,058.00	72.95	91.93	90.07	3,466.26	-2,458.42	1,752.66	1,594.58	158.08	11.087		
9,700.00	7,056.00	11,281.15	7,058.00	75.35	94.30	90.07	3,465.38	-2,558.41	1,752.65	1,589.54	163.11	10.745		
9,800.00	7,056.00	11,381.15	7,058.00	77.78	96.70	90.07	3,464.50	-2,658.41	1,752.63	1,584.47	168.17	10.422		
9,900.00	7,056.00	11,481.15	7,058.00	80.23	99.11	90.07	3,463.62	-2,758.40	1,752.62	1,579.37	173.25	10.116		
10,000.00	7,056.00	11,581.15	7,058.00	82.70	101.55	90.07	3,462.74	-2,858.40	1,752.60	1,574.25	178.35	9.827		
10,100.00	7,056.00	11,681.15	7,058.00	85.19	104.00	90.07	3,461.86	-2,958.40	1,752.59	1,569.11	183.47	9.552		
10,200.00	7,056.00	11,781.15	7,058.00	87.69	106.47	90.07	3,460.98	-3,058.39	1,752.57	1,563.96	188.61	9.292		
10,300.00	7,056.00	11,881.15	7,058.00	90.20	108.96	90.07	3,460.09	-3,158.39	1,752.56	1,558.78	193.77	9.044		
10,400.00	7,056.00	11,981.15	7,058.00	92.73	111.45	90.07	3,459.21	-3,258.38	1,752.54	1,553.60	198.94	8.809		
10,500.00	7,056.00	12,081.15	7,058.00	95.27	113.96	90.07	3,458.33	-3,358.38	1,752.52	1,548.39	204.13	8.585		
10,600.00	7,056.00	12,181.15	7,058.00	97.81	116.48	90.07	3,457.45	-3,458.38	1,752.51	1,543.18	209.33	8.372		
10,700.00	7,056.00	12,281.15	7,058.00	100.37	119.01	90.07	3,456.57	-3,558.37	1,752.49	1,537.95	214.54	8.169		
10,800.00	7,056.00	12,381.15	7,058.00	102.94	121.55	90.07	3,455.69	-3,658.37	1,752.48	1,532.71	219.76	7.974		
10,900.00	7,056.00	12,481.15	7,058.00	105.51	124.10	90.07	3,454.81	-3,758.36	1,752.46	1,527.46	225.00	7.789		
11,000.00	7,056.00	12,581.15	7,058.00	108.09	126.66	90.07	3,453.92	-3,858.36	1,752.45	1,522.20	230.24	7.611		
11,100.00	7,056.00	12,681.15	7,058.00	110.68	129.22	90.07	3,453.04	-3,958.36	1,752.43	1,516.94	235.49	7.442		
11,200.00	7,056.00	12,781.15	7,058.00	113.28	131.79	90.07	3,452.16	-4,058.35	1,752.42	1,511.66	240.76	7.279		
11,300.00	7,056.00	12,881.15	7,058.00	115.88	134.37	90.07	3,451.28	-4,158.35	1,752.40	1,506.38	246.02	7.123		
11,400.00	7,056.00	12,981.15	7,058.00	118.49	136.95	90.07	3,450.40	-4,258.35	1,752.38	1,501.08	251.30	6.973		
11,500.00	7,056.00	13,081.15	7,058.00	121.10	139.54	90.07	3,449.52	-4,358.34	1,752.37	1,495.78	256.58	6.830		
11,600.00	7,056.00	13,181.15	7,058.00	123.72	142.13	90.07	3,448.64	-4,458.34	1,752.35	1,490.48	261.87	6.692		
11,700.00	7,056.00	13,281.15	7,058.00	126.34	144.73	90.07	3,447.76	-4,558.33	1,752.34	1,485.17	267.17	6.559		
11,800.00	7,056.00	13,381.15	7,058.00	128.97	147.33	90.07	3,446.87	-4,658.33	1,752.32	1,479.85	272.47	6.431		
11,900.00	7,056.00	13,481.15	7,058.00	131.60	149.94	90.07	3,445.99	-4,758.33	1,752.31	1,474.53	277.78	6.308		
12,000.00	7,056.00	13,581.15	7,058.00	134.23	152.55	90.07	3,445.11	-4,858.32	1,752.29	1,469.20	283.09	6.190		
12,100.00	7,056.00	13,681.15	7,058.00	136.87	155.16	90.07	3,444.23	-4,958.32	1,752.27	1,463.87	288.41	6.076		
12,200.00	7,056.00	13,781.15	7,058.00	139.51	157.78	90.07	3,443.35	-5,058.31	1,752.26	1,458.53	293.73	5.966		
12,300.00	7,056.00	13,881.15	7,058.00	142.15	160.40	90.07	3,442.47	-5,158.31	1,752.24	1,453.19	299.06	5.859		
12,400.00	7,056.00	13,981.15	7,058.00	144.80	163.03	90.07	3,441.59	-5,258.31	1,752.23	1,447.84	304.39	5.757		
12,500.00	7,056.00	14,081.15	7,058.00	147.45	165.66	90.07	3,440.70	-5,358.30	1,752.21	1,442.49	309.72	5.657		
12,600.00	7,056.00	14,181.15	7,058.00	150.10	168.29	90.07	3,439.82	-5,458.30	1,752.20	1,437.14	315.06	5.561		
12,700.00	7,056.00	14,281.15	7,058.00	152.75	170.92	90.07	3,438.94	-5,558.29	1,752.18	1,431.78	320.40	5.469		
12,800.00	7,056.00	14,381.15	7,058.00	155.41	173.56	90.07	3,438.06	-5,658.29	1,752.17	1,426.42	325.75	5.379		
12,900.00	7,056.00	14,481.15	7,058.00	158.07	176.20	90.07	3,437.18	-5,758.29	1,752.15	1,421.06	331.09	5.292		
13,000.00	7,056.00	14,581.15	7,058.00	160.73	178.84	90.07	3,436.30	-5,858.28	1,752.13	1,415.69	336.44	5.208		
13,100.00	7,056.00	14,681.15	7,058.00	163.39	181.49	90.07	3,435.42	-5,958.28	1,752.12	1,410.32	341.80	5.126		
13,200.00	7,056.00	14,781.15	7,058.00	166.06	184.13	90.07	3,434.54	-6,058.28	1,752.10	1,404.95	347.16	5.047		
13,300.00	7,056.00	14,881.15	7,058.00	168.73	186.78	90.07	3,433.65	-6,158.27	1,752.09	1,399.57	352.51	4.970		
13,400.00	7,056.00	14,981.15	7,058.00	171.40	189.43	90.07	3,432.77	-6,258.27	1,752.07	1,394.20	357.88	4.896		
13,500.00	7,056.00	15,081.15	7,058.00	174.07	192.09	90.07	3,431.89	-6,358.26	1,752.06	1,388.82	363.24	4.823		
13,600.00	7,056.00	15,181.15	7,058.00	176.74	194.74	90.07	3,431.01	-6,458.26	1,752.04	1,383.43	368.61	4.753		
13,700.00	7,056.00	15,281.15	7,058.00	179.41	197.40	90.07	3,430.13	-6,558.26	1,752.03	1,378.05	373.98	4.685		
13,800.00	7,056.00	15,381.15	7,058.00	182.09	200.06	90.07	3,429.25	-6,658.25	1,752.01	1,372.66	379.35	4.618		
13,900.00	7,056.00	15,481.15	7,058.00	184.76	202.72	90.07	3,428.37	-6,758.25	1,751.99	1,367.27	384.72	4.554		
14,000.00	7,056.00	15,581.15	7,058.00	187.44	205.38	90.07	3,427.48	-6,858.24	1,751.98	1,361.88	390.10	4.491		
14,100.00	7,056.00	15,681.15	7,058.00	190.12	208.04	90.07	3,426.60	-6,958.24	1,751.96	1,356.49	395.47	4.430		
14,200.00	7,056.00	15,781.15	7,058.00	192.80	210.71	90.07	3,425.72	-7,058.24	1,751.95	1,351.10	400.85	4.371		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,056.00	15,881.15	7,058.00	195.48	213.37	90.07	3,424.84	-7,158.23	1,751.93	1,345.70	406.23	4.313		
14,400.00	7,056.00	15,981.15	7,058.00	198.16	216.04	90.07	3,423.96	-7,258.23	1,751.92	1,340.30	411.61	4.256		
14,500.00	7,056.00	16,081.15	7,058.00	200.85	218.71	90.07	3,423.08	-7,358.22	1,751.90	1,334.90	417.00	4.201		
14,600.00	7,056.00	16,181.15	7,058.00	203.53	221.38	90.07	3,422.20	-7,458.22	1,751.89	1,329.50	422.38	4.148		
14,700.00	7,056.00	16,281.15	7,058.00	206.22	224.05	90.07	3,421.31	-7,558.22	1,751.87	1,324.10	427.77	4.095		
14,800.00	7,056.00	16,381.15	7,058.00	208.91	226.72	90.07	3,420.43	-7,658.21	1,751.85	1,318.70	433.16	4.044		
14,900.00	7,056.00	16,481.15	7,058.00	211.59	229.40	90.07	3,419.55	-7,758.21	1,751.84	1,313.29	438.55	3.995		
15,000.00	7,056.00	16,581.15	7,058.00	214.28	232.07	90.07	3,418.67	-7,858.21	1,751.82	1,307.89	443.94	3.946		
15,100.00	7,056.00	16,681.15	7,058.00	216.97	234.75	90.07	3,417.79	-7,958.20	1,751.81	1,302.48	449.33	3.899		
15,200.00	7,056.00	16,781.15	7,058.00	219.66	237.42	90.07	3,416.91	-8,058.20	1,751.79	1,297.07	454.72	3.852		
15,300.00	7,056.00	16,881.15	7,058.00	222.35	240.10	90.07	3,416.03	-8,158.19	1,751.78	1,291.66	460.12	3.807		
15,400.00	7,056.00	16,981.15	7,058.00	225.04	242.78	90.07	3,415.15	-8,258.19	1,751.76	1,286.25	465.51	3.763		
15,427.00	7,056.00	17,008.15	7,058.00	225.77	243.50	90.07	3,414.91	-8,285.19	1,751.76	1,284.79	466.97	3.751		
15,496.19	7,056.00	17,011.19	7,058.00	227.63	243.58	90.07	3,414.88	-8,288.23	1,752.99	1,282.71	470.29	3.727 SF		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance		Separation		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.37	0.00	47.37	47.37				
100.00	100.00	100.00	100.00	0.14	0.14	0.00	47.37	0.00	47.37	47.08	0.29	165.170		
200.00	200.00	200.00	200.00	0.50	0.50	0.00	47.37	0.00	47.37	46.36	1.00	47.191		
300.00	300.00	300.00	300.00	0.86	0.86	0.00	47.37	0.00	47.37	45.65	1.72	27.528		
400.00	400.00	400.00	400.00	1.22	1.22	0.00	47.37	0.00	47.37	44.93	2.44	19.432		
500.00	500.00	500.00	500.00	1.58	1.58	0.00	47.37	0.00	47.37	44.21	3.15	15.015		
600.00	600.00	600.00	600.00	1.94	1.94	0.00	47.37	0.00	47.37	43.50	3.87	12.235		
700.00	700.00	700.00	700.00	2.29	2.29	0.00	47.37	0.00	47.37	42.78	4.59	10.323		
800.00	800.00	800.00	800.00	2.65	2.65	0.00	47.37	0.00	47.37	42.06	5.31	8.928		
900.00	900.00	900.00	900.00	3.01	3.01	0.00	47.37	0.00	47.37	41.34	6.02	7.865		
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	0.00	47.37	0.00	47.37	40.63	6.74	7.028		
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	0.00	47.37	0.00	47.37	39.91	7.46	6.353		
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	0.00	47.37	0.00	47.37	39.19	8.17	5.795		
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	0.00	47.37	0.00	47.37	38.48	8.89	5.328		
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	0.00	47.37	0.00	47.37	37.76	9.61	4.930		
1,500.00	1,500.00	1,500.00	1,500.00	5.16	5.16	0.00	47.37	0.00	47.37	37.04	10.32	4.588		
1,600.00	1,600.00	1,600.00	1,600.00	5.52	5.52	0.00	47.37	0.00	47.37	36.33	11.04	4.290		
1,700.00	1,700.00	1,700.00	1,700.00	5.88	5.88	0.00	47.37	0.00	47.37	35.61	11.76	4.029		
1,800.00	1,800.00	1,800.00	1,800.00	6.24	6.24	0.00	47.37	0.00	47.37	34.89	12.47	3.797		
1,900.00	1,900.00	1,900.00	1,900.00	6.60	6.60	0.00	47.37	0.00	47.37	34.18	13.19	3.591		
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	0.00	47.37	0.00	47.37	33.46	13.91	3.406 CC, ES		
2,100.00	2,100.00	2,098.40	2,098.38	7.31	7.31	0.57	48.98	0.49	49.01	34.40	14.61	3.354		
2,200.00	2,200.00	2,196.57	2,196.42	7.67	7.66	2.07	53.82	1.95	53.97	38.67	15.30	3.527		
2,300.00	2,300.00	2,294.29	2,293.77	8.03	8.01	4.04	61.82	4.37	62.29	46.32	15.97	3.900		
2,400.00	2,399.98	2,391.52	2,390.30	8.39	8.36	5.47	72.94	7.72	72.26	55.64	16.62	4.347		
2,500.00	2,499.84	2,488.40	2,486.04	8.75	8.71	7.70	87.12	12.01	82.20	64.94	17.25	4.765		
2,600.00	2,599.45	2,584.92	2,580.86	9.10	9.07	10.02	104.33	17.21	92.15	74.29	17.86	5.160		
2,700.00	2,698.70	2,681.08	2,674.68	9.46	9.44	12.39	124.50	23.30	102.18	83.73	18.45	5.539		
2,800.00	2,797.47	2,776.86	2,767.38	9.82	9.83	14.78	147.59	30.27	112.34	93.32	19.02	5.907		
2,900.00	2,895.62	2,872.28	2,858.86	10.20	10.24	17.17	173.51	38.10	122.67	103.10	19.57	6.268		
3,000.00	2,993.06	2,967.32	2,949.04	10.58	10.66	19.56	202.22	46.77	133.23	113.11	20.12	6.623		
3,100.00	3,089.64	3,061.98	3,037.82	10.98	11.12	21.92	233.65	56.26	144.06	123.40	20.66	6.974		
3,200.00	3,185.27	3,156.26	3,125.12	11.40	11.60	24.26	267.73	66.56	155.21	134.00	21.20	7.320		
3,300.00	3,279.82	3,250.17	3,210.86	11.85	12.11	26.54	304.38	77.63	166.70	144.94	21.76	7.661		
3,400.00	3,373.17	3,343.69	3,294.96	12.32	12.65	28.78	343.54	89.45	178.58	156.23	22.34	7.993		
3,425.78	3,397.02	3,367.74	3,316.36	12.45	12.80	29.34	354.03	92.62	181.70	159.21	22.50	8.077		
3,500.00	3,465.59	3,436.76	3,377.29	12.83	13.23	30.91	385.10	102.01	191.69	168.73	22.96	8.350		
3,600.00	3,557.97	3,529.10	3,457.53	13.35	13.84	32.54	428.84	115.22	207.99	184.41	23.58	8.819		
3,700.00	3,650.35	3,620.53	3,535.48	13.89	14.48	33.69	474.56	129.03	227.43	203.21	24.22	9.391		
3,800.00	3,742.72	3,710.86	3,610.96	14.45	15.16	34.41	522.05	143.37	249.85	225.01	24.84	10.057		
3,900.00	3,835.10	3,800.00	3,683.88	15.03	15.87	34.80	571.12	158.19	275.15	249.69	25.46	10.807		
4,000.00	3,927.48	3,892.72	3,758.34	15.61	16.64	34.98	624.03	174.17	302.77	276.51	26.26	11.529		
4,100.00	4,019.86	3,988.76	3,835.31	16.21	17.47	35.11	679.00	190.77	330.62	303.41	27.22	12.148		
4,200.00	4,112.23	4,084.80	3,912.29	16.82	18.31	35.23	733.98	207.38	358.48	330.29	28.19	12.718		
4,300.00	4,204.61	4,180.84	3,989.27	17.44	19.18	35.32	788.96	223.98	386.33	357.16	29.17	13.243		
4,400.00	4,296.99	4,276.88	4,066.24	18.06	20.05	35.41	843.94	240.59	414.19	384.02	30.17	13.728		
4,500.00	4,389.37	4,372.92	4,143.22	18.69	20.95	35.48	898.91	257.19	442.05	410.87	31.18	14.176		
4,600.00	4,481.74	4,468.96	4,220.20	19.33	21.85	35.55	953.89	273.80	469.91	437.70	32.20	14.591		
4,700.00	4,574.12	4,565.00	4,297.17	19.98	22.76	35.60	1,008.87	290.40	497.77	464.53	33.24	14.977		
4,800.00	4,666.50	4,661.04	4,374.15	20.63	23.68	35.66	1,063.85	307.01	525.63	491.35	34.28	15.335		
4,900.00	4,758.88	4,757.08	4,451.13	21.29	24.61	35.70	1,118.82	323.61	553.49	518.16	35.33	15.668		
5,000.00	4,851.25	4,853.12	4,528.10	21.95	25.55	35.74	1,173.80	340.22	581.35	544.97	36.38	15.979		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD										Rule Assigned:			Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,100.00	4,943.63	4,949.16	4,605.08	22.61	26.49	35.78	1,228.78	356.82	609.21	571.76	37.44	16.270			
5,200.00	5,036.01	5,045.20	4,682.06	23.28	27.44	35.82	1,283.75	373.43	637.07	598.56	38.51	16.541			
5,300.00	5,128.39	5,141.24	4,759.04	23.95	28.40	35.85	1,338.73	390.03	664.93	625.34	39.59	16.796			
5,400.00	5,220.76	5,237.28	4,836.01	24.62	29.35	35.88	1,393.71	406.64	692.79	652.12	40.67	17.035			
5,500.00	5,313.14	5,333.32	4,912.99	25.30	30.32	35.91	1,448.69	423.24	720.65	678.90	41.76	17.259			
5,600.00	5,405.52	5,429.36	4,989.97	25.98	31.28	35.93	1,503.66	439.85	748.51	705.67	42.85	17.470			
5,700.00	5,497.90	5,525.40	5,066.94	26.67	32.25	35.95	1,558.64	456.45	776.38	732.44	43.94	17.669			
5,800.00	5,590.28	5,621.44	5,143.92	27.35	33.23	35.98	1,613.62	473.06	804.24	759.20	45.04	17.857			
5,900.00	5,682.65	5,717.48	5,220.90	28.04	34.20	36.00	1,668.59	489.66	832.10	785.96	46.14	18.034			
6,000.00	5,775.03	5,813.52	5,297.87	28.73	35.18	36.01	1,723.57	506.27	859.96	812.71	47.25	18.202			
6,100.00	5,867.41	5,909.56	5,374.85	29.42	36.16	36.03	1,778.55	522.87	887.82	839.47	48.36	18.360			
6,200.00	5,959.79	6,005.60	5,451.83	30.11	37.15	36.05	1,833.53	539.48	915.68	866.22	49.47	18.511			
6,300.00	6,052.16	6,101.64	5,528.80	30.80	38.13	36.06	1,888.50	556.08	943.55	892.97	50.58	18.654			
6,400.00	6,144.54	6,197.68	5,605.78	31.50	39.12	36.08	1,943.48	572.69	971.41	919.71	51.70	18.790			
6,500.00	6,236.92	6,293.72	5,682.76	32.20	40.11	36.09	1,998.46	589.29	999.27	946.45	52.82	18.919			
6,600.00	6,329.30	6,389.76	5,759.73	32.90	41.10	36.11	2,053.44	605.90	1,027.13	973.19	53.94	19.042			
6,700.00	6,421.67	6,485.80	5,836.71	33.60	42.09	36.12	2,108.41	622.50	1,055.00	999.93	55.06	19.159			
6,800.00	6,514.05	6,581.84	5,913.69	34.30	43.08	36.13	2,163.39	639.11	1,082.86	1,026.67	56.19	19.271			
6,809.17	6,522.52	6,590.64	5,920.74	34.36	43.17	36.13	2,168.43	640.63	1,085.41	1,029.12	56.29	19.281			
6,850.00	6,560.22	6,629.58	5,951.95	34.65	43.58	44.95	2,190.72	647.36	1,097.63	1,040.84	56.78	19.330			
6,900.00	6,606.13	6,676.29	5,989.39	35.00	44.06	54.94	2,217.46	655.44	1,114.80	1,057.34	57.46	19.400			
6,950.00	6,651.44	6,721.61	6,025.71	35.34	44.53	63.33	2,243.40	663.27	1,134.35	1,076.13	58.22	19.483			
7,000.00	6,695.79	6,765.19	6,060.64	35.67	44.98	69.90	2,268.35	670.81	1,156.18	1,097.12	59.06	19.577			
7,050.00	6,738.87	6,806.70	6,093.91	36.00	45.42	74.72	2,292.11	677.98	1,180.21	1,120.25	59.96	19.683			
7,100.00	6,780.32	6,845.82	6,125.27	36.31	45.82	78.02	2,314.50	684.75	1,206.38	1,145.45	60.93	19.800			
7,150.00	6,819.85	6,882.25	6,154.47	36.61	46.20	80.02	2,335.36	691.05	1,234.58	1,172.63	61.95	19.929			
7,200.00	6,857.14	6,915.73	6,181.30	36.91	46.55	80.89	2,354.52	696.84	1,264.73	1,201.71	63.01	20.071			
7,250.00	6,891.92	6,945.99	6,205.56	37.19	46.86	80.74	2,371.84	702.07	1,296.69	1,232.58	64.11	20.225			
7,300.00	6,923.92	6,972.80	6,227.05	37.46	47.14	79.64	2,387.19	706.70	1,330.34	1,265.11	65.23	20.393			
7,350.00	6,952.90	6,995.96	6,245.61	37.73	47.38	77.62	2,400.45	710.71	1,365.51	1,299.15	66.36	20.576			
7,400.00	6,978.63	8,948.20	7,162.00	37.99	56.33	90.61	3,045.06	-269.49	1,357.04	1,293.55	63.49	21.375			
7,450.00	7,000.93	8,991.97	7,162.00	38.25	56.37	91.96	3,044.70	-313.26	1,345.04	1,280.15	64.89	20.727			
7,500.00	7,019.61	9,037.69	7,162.00	38.51	56.42	92.96	3,044.31	-358.97	1,335.25	1,268.89	66.36	20.123			
7,550.00	7,034.55	9,084.99	7,162.00	38.77	56.49	93.69	3,043.92	-406.27	1,327.59	1,259.76	67.83	19.571			
7,600.00	7,045.61	9,133.51	7,162.00	39.04	56.58	94.19	3,043.51	-454.79	1,322.02	1,252.67	69.34	19.064			
7,650.00	7,052.73	9,182.90	7,162.00	39.32	56.70	94.49	3,043.10	-504.18	1,318.48	1,247.62	70.86	18.607			
7,700.00	7,055.85	9,232.77	7,162.00	39.60	56.84	94.61	3,042.68	-554.05	1,316.95	1,244.57	72.39	18.194			
7,713.35	7,056.00	9,246.12	7,162.00	39.68	56.88	94.62	3,042.57	-567.40	1,316.88	1,244.09	72.79	18.091			
7,713.69	7,056.00	9,246.46	7,162.00	39.68	56.88	94.62	3,042.56	-567.74	1,316.88	1,244.08	72.80	18.089			
7,800.00	7,056.00	9,332.77	7,162.00	40.23	57.21	94.62	3,041.84	-654.04	1,316.91	1,241.39	75.52	17.439			
7,900.00	7,056.00	9,432.77	7,162.00	41.02	57.74	94.62	3,041.00	-754.04	1,316.93	1,238.02	78.91	16.689			
8,000.00	7,056.00	9,532.77	7,162.00	41.97	58.46	94.62	3,040.16	-854.04	1,316.96	1,234.43	82.53	15.958			
8,100.00	7,056.00	9,632.77	7,162.00	43.10	59.41	94.62	3,039.32	-954.03	1,316.99	1,230.64	86.35	15.252			
8,200.00	7,056.00	9,732.77	7,162.00	44.40	60.59	94.62	3,038.48	-1,054.03	1,317.01	1,226.67	90.34	14.578			
8,300.00	7,056.00	9,832.77	7,162.00	45.85	62.01	94.62	3,037.65	-1,154.02	1,317.04	1,222.56	94.49	13.939			
8,400.00	7,056.00	9,932.77	7,162.00	47.44	63.63	94.62	3,036.81	-1,254.02	1,317.07	1,218.31	98.76	13.336			
8,500.00	7,056.00	10,032.77	7,162.00	49.17	65.42	94.62	3,035.97	-1,354.02	1,317.10	1,213.95	103.15	12.769			
8,600.00	7,056.00	10,132.77	7,162.00	51.00	67.34	94.62	3,035.13	-1,454.01	1,317.12	1,209.49	107.63	12.237			
8,700.00	7,056.00	10,232.77	7,162.00	52.93	69.37	94.62	3,034.29	-1,554.01	1,317.15	1,204.94	112.21	11.739			
8,800.00	7,056.00	10,332.77	7,162.00	54.94	71.49	94.62	3,033.45	-1,654.01	1,317.18	1,200.32	116.85	11.272			
8,900.00	7,056.00	10,432.77	7,162.00	57.02	73.67	94.62	3,032.61	-1,754.00	1,317.20	1,195.64	121.57	10.835			
9,000.00	7,056.00	10,532.77	7,162.00	59.16	75.91	94.62	3,031.78	-1,854.00	1,317.23	1,190.89	126.34	10.426			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL #1											Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD							Rule Assigned:				Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,056.00	10,632.77	7,162.00	61.36	78.19	94.62	3,030.94	-1,954.00	1,317.26	1,186.09	131.17	10.042	
9,200.00	7,056.00	10,732.77	7,162.00	63.60	80.51	94.62	3,030.10	-2,053.99	1,317.29	1,181.24	136.04	9.683	
9,300.00	7,056.00	10,832.77	7,162.00	65.89	82.87	94.62	3,029.26	-2,153.99	1,317.31	1,176.36	140.96	9.346	
9,400.00	7,056.00	10,932.77	7,162.00	68.21	85.25	94.62	3,028.42	-2,253.99	1,317.34	1,171.43	145.91	9.029	
9,500.00	7,056.00	11,032.77	7,162.00	70.56	87.65	94.62	3,027.58	-2,353.98	1,317.37	1,166.48	150.89	8.731	
9,600.00	7,056.00	11,132.77	7,162.00	72.95	90.08	94.62	3,026.75	-2,453.98	1,317.39	1,161.49	155.91	8.450	
9,700.00	7,056.00	11,232.77	7,162.00	75.35	92.53	94.62	3,025.91	-2,553.98	1,317.42	1,156.47	160.95	8.185	
9,800.00	7,056.00	11,332.77	7,162.00	77.78	95.00	94.61	3,025.07	-2,653.97	1,317.45	1,151.43	166.01	7.936	
9,900.00	7,056.00	11,432.77	7,162.00	80.23	97.48	94.61	3,024.23	-2,753.97	1,317.48	1,146.37	171.10	7.700	
10,000.00	7,056.00	11,532.77	7,162.00	82.70	99.97	94.61	3,023.39	-2,853.97	1,317.50	1,141.29	176.21	7.477	
10,100.00	7,056.00	11,632.77	7,162.00	85.19	102.48	94.61	3,022.55	-2,953.96	1,317.53	1,136.19	181.34	7.266	
10,200.00	7,056.00	11,732.77	7,162.00	87.69	105.00	94.61	3,021.71	-3,053.96	1,317.56	1,131.07	186.48	7.065	
10,300.00	7,056.00	11,832.77	7,162.00	90.20	107.53	94.61	3,020.88	-3,153.95	1,317.58	1,125.94	191.64	6.875	
10,400.00	7,056.00	11,932.77	7,162.00	92.73	110.07	94.61	3,020.04	-3,253.95	1,317.61	1,120.79	196.82	6.694	
10,500.00	7,056.00	12,032.77	7,162.00	95.27	112.61	94.61	3,019.20	-3,353.95	1,317.64	1,115.63	202.01	6.523	
10,600.00	7,056.00	12,132.77	7,162.00	97.81	115.17	94.61	3,018.36	-3,453.94	1,317.67	1,110.46	207.21	6.359	
10,700.00	7,056.00	12,232.77	7,162.00	100.37	117.74	94.61	3,017.52	-3,553.94	1,317.69	1,105.27	212.42	6.203	
10,800.00	7,056.00	12,332.77	7,162.00	102.94	120.31	94.61	3,016.68	-3,653.94	1,317.72	1,100.08	217.64	6.054	
10,900.00	7,056.00	12,432.77	7,162.00	105.51	122.88	94.61	3,015.84	-3,753.93	1,317.75	1,094.87	222.88	5.912	
11,000.00	7,056.00	12,532.77	7,162.00	108.09	125.47	94.61	3,015.01	-3,853.93	1,317.77	1,089.66	228.12	5.777	
11,100.00	7,056.00	12,632.77	7,162.00	110.68	128.06	94.61	3,014.17	-3,953.93	1,317.80	1,084.43	233.37	5.647	
11,200.00	7,056.00	12,732.77	7,162.00	113.28	130.65	94.61	3,013.33	-4,053.92	1,317.83	1,079.20	238.63	5.523	
11,300.00	7,056.00	12,832.77	7,162.00	115.88	133.25	94.61	3,012.49	-4,153.92	1,317.86	1,073.96	243.89	5.403	
11,400.00	7,056.00	12,932.77	7,162.00	118.49	135.86	94.61	3,011.65	-4,253.92	1,317.88	1,068.72	249.16	5.289	
11,500.00	7,056.00	13,032.77	7,162.00	121.10	138.47	94.61	3,010.81	-4,353.91	1,317.91	1,063.47	254.44	5.180	
11,600.00	7,056.00	13,132.77	7,162.00	123.72	141.08	94.61	3,009.97	-4,453.91	1,317.94	1,058.21	259.73	5.074	
11,700.00	7,056.00	13,232.77	7,162.00	126.34	143.70	94.61	3,009.14	-4,553.91	1,317.96	1,052.95	265.02	4.973	
11,800.00	7,056.00	13,332.77	7,162.00	128.97	146.32	94.61	3,008.30	-4,653.90	1,317.99	1,047.68	270.31	4.876	
11,900.00	7,056.00	13,432.77	7,162.00	131.60	148.95	94.61	3,007.46	-4,753.90	1,318.02	1,042.40	275.61	4.782	
12,000.00	7,056.00	13,532.77	7,162.00	134.23	151.58	94.61	3,006.62	-4,853.89	1,318.05	1,037.13	280.92	4.692	
12,100.00	7,056.00	13,632.77	7,162.00	136.87	154.21	94.61	3,005.78	-4,953.89	1,318.07	1,031.84	286.23	4.605	
12,200.00	7,056.00	13,732.77	7,162.00	139.51	156.84	94.61	3,004.94	-5,053.89	1,318.10	1,026.55	291.55	4.521	
12,300.00	7,056.00	13,832.77	7,162.00	142.15	159.48	94.61	3,004.10	-5,153.88	1,318.13	1,021.26	296.86	4.440	
12,400.00	7,056.00	13,932.77	7,162.00	144.80	162.12	94.61	3,003.27	-5,253.88	1,318.15	1,015.97	302.19	4.362	
12,500.00	7,056.00	14,032.77	7,162.00	147.45	164.77	94.61	3,002.43	-5,353.88	1,318.18	1,010.67	307.51	4.287	
12,600.00	7,056.00	14,132.77	7,162.00	150.10	167.41	94.61	3,001.59	-5,453.87	1,318.21	1,005.37	312.84	4.214	
12,700.00	7,056.00	14,232.77	7,162.00	152.75	170.06	94.61	3,000.75	-5,553.87	1,318.24	1,000.06	318.18	4.143	
12,800.00	7,056.00	14,332.77	7,162.00	155.41	172.71	94.61	2,999.91	-5,653.87	1,318.26	994.75	323.51	4.075	
12,900.00	7,056.00	14,432.77	7,162.00	158.07	175.36	94.61	2,999.07	-5,753.86	1,318.29	989.44	328.85	4.009	
13,000.00	7,056.00	14,532.77	7,162.00	160.73	178.02	94.61	2,998.23	-5,853.86	1,318.32	984.12	334.19	3.945	
13,100.00	7,056.00	14,632.77	7,162.00	163.39	180.67	94.61	2,997.40	-5,953.86	1,318.34	978.81	339.54	3.883	
13,200.00	7,056.00	14,732.77	7,162.00	166.06	183.33	94.61	2,996.56	-6,053.85	1,318.37	973.49	344.88	3.823	
13,300.00	7,056.00	14,832.77	7,162.00	168.73	185.99	94.61	2,995.72	-6,153.85	1,318.40	968.17	350.23	3.764	
13,400.00	7,056.00	14,932.77	7,162.00	171.40	188.65	94.61	2,994.88	-6,253.85	1,318.43	962.84	355.58	3.708	
13,500.00	7,056.00	15,032.77	7,162.00	174.07	191.32	94.61	2,994.04	-6,353.84	1,318.45	957.51	360.94	3.653	
13,600.00	7,056.00	15,132.77	7,162.00	176.74	193.98	94.61	2,993.20	-6,453.84	1,318.48	952.18	366.30	3.599	
13,700.00	7,056.00	15,232.77	7,162.00	179.41	196.65	94.61	2,992.36	-6,553.83	1,318.51	946.85	371.65	3.548	
13,800.00	7,056.00	15,332.77	7,162.00	182.09	199.32	94.61	2,991.53	-6,653.83	1,318.53	941.52	377.01	3.497	
13,900.00	7,056.00	15,432.77	7,162.00	184.76	201.98	94.61	2,990.69	-6,753.83	1,318.56	936.19	382.38	3.448	
14,000.00	7,056.00	15,532.77	7,162.00	187.44	204.66	94.61	2,989.85	-6,853.82	1,318.59	930.85	387.74	3.401	
14,100.00	7,056.00	15,632.77	7,162.00	190.12	207.33	94.61	2,989.01	-6,953.82	1,318.62	925.51	393.11	3.354	
14,200.00	7,056.00	15,732.77	7,162.00	192.80	210.00	94.61	2,988.17	-7,053.82	1,318.64	920.17	398.47	3.309	

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Highside		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,300.00	7,056.00	15,832.77	7,162.00	195.48	212.68	94.61		94.61	2,987.33	-7,153.81	1,318.67	914.83	403.84	3.265	
14,400.00	7,056.00	15,932.77	7,162.00	198.16	215.35	94.61		94.61	2,986.49	-7,253.81	1,318.70	909.49	409.21	3.223	
14,500.00	7,056.00	16,032.77	7,162.00	200.85	218.03	94.61		94.61	2,985.66	-7,353.81	1,318.72	904.14	414.58	3.181	
14,600.00	7,056.00	16,132.77	7,162.00	203.53	220.71	94.61		94.61	2,984.82	-7,453.80	1,318.75	898.79	419.96	3.140	
14,700.00	7,056.00	16,232.77	7,162.00	206.22	223.38	94.61		94.61	2,983.98	-7,553.80	1,318.78	893.45	425.33	3.101	
14,800.00	7,056.00	16,332.77	7,162.00	208.91	226.06	94.61		94.61	2,983.14	-7,653.80	1,318.81	888.10	430.71	3.062	
14,900.00	7,056.00	16,432.77	7,162.00	211.59	228.75	94.61		94.61	2,982.30	-7,753.79	1,318.83	882.75	436.08	3.024	
15,000.00	7,056.00	16,532.77	7,162.00	214.28	231.43	94.61		94.61	2,981.46	-7,853.79	1,318.86	877.40	441.46	2.987	
15,100.00	7,056.00	16,632.77	7,162.00	216.97	234.11	94.61		94.61	2,980.62	-7,953.79	1,318.89	872.05	446.84	2.952	
15,200.00	7,056.00	16,732.77	7,162.00	219.66	236.79	94.61		94.61	2,979.79	-8,053.78	1,318.91	866.69	452.22	2.917	
15,300.00	7,056.00	16,832.77	7,162.00	222.35	239.48	94.61		94.61	2,978.95	-8,153.78	1,318.94	861.34	457.60	2.882	
15,400.00	7,056.00	16,932.77	7,162.00	225.04	242.16	94.61		94.61	2,978.11	-8,253.78	1,318.97	855.98	462.99	2.849	
15,402.52	7,056.00	16,935.29	7,162.00	225.11	242.23	94.61		94.61	2,978.09	-8,256.30	1,318.97	855.85	463.12	2.848	
15,496.19	7,056.00	16,978.51	7,162.00	227.63	243.39	94.61		94.61	2,977.73	-8,299.52	1,319.96	851.92	468.04	2.820 SF	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance			Rule Assigned:	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.79	0.00	32.79	32.79					
100.00	100.00	100.00	100.00	0.14	0.14	0.00	32.79	0.00	32.79	32.50	0.29	114.343			
200.00	200.00	200.00	200.00	0.50	0.50	0.00	32.79	0.00	32.79	31.79	1.00	32.669			
300.00	300.00	300.00	300.00	0.86	0.86	0.00	32.79	0.00	32.79	31.07	1.72	19.057			
400.00	400.00	400.00	400.00	1.22	1.22	0.00	32.79	0.00	32.79	30.35	2.44	13.452			
500.00	500.00	500.00	500.00	1.58	1.58	0.00	32.79	0.00	32.79	29.64	3.15	10.395			
600.00	600.00	600.00	600.00	1.94	1.94	0.00	32.79	0.00	32.79	28.92	3.87	8.470			
700.00	700.00	700.00	700.00	2.29	2.29	0.00	32.79	0.00	32.79	28.20	4.59	7.146			
800.00	800.00	800.00	800.00	2.65	2.65	0.00	32.79	0.00	32.79	27.49	5.31	6.181			
900.00	900.00	900.00	900.00	3.01	3.01	0.00	32.79	0.00	32.79	26.77	6.02	5.445			
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	0.00	32.79	0.00	32.79	26.05	6.74	4.866			
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	0.00	32.79	0.00	32.79	25.33	7.46	4.398			
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	0.00	32.79	0.00	32.79	24.62	8.17	4.012			
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	0.00	32.79	0.00	32.79	23.90	8.89	3.688			
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	0.00	32.79	0.00	32.79	23.18	9.61	3.413			
1,500.00	1,500.00	1,500.00	1,500.00	5.16	5.16	0.00	32.79	0.00	32.79	22.47	10.32	3.176			
1,600.00	1,600.00	1,600.00	1,600.00	5.52	5.52	0.00	32.79	0.00	32.79	21.75	11.04	2.970			
1,700.00	1,700.00	1,700.00	1,700.00	5.88	5.88	0.00	32.79	0.00	32.79	21.03	11.76	2.789			
1,800.00	1,800.00	1,800.00	1,800.00	6.24	6.24	0.00	32.79	0.00	32.79	20.32	12.47	2.629			
1,900.00	1,900.00	1,900.00	1,900.00	6.60	6.60	0.00	32.79	0.00	32.79	19.60	13.19	2.486			
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	0.00	32.79	0.00	32.79	18.88	13.91	2.358			
2,100.00	2,100.00	2,100.00	2,100.00	7.31	7.31	0.00	32.79	0.00	32.79	18.17	14.63	2.242	CC, ES		
2,200.00	2,200.00	2,198.89	2,198.87	7.67	7.67	0.94	34.40	0.56	34.42	19.09	15.33	2.245			
2,300.00	2,300.00	2,297.55	2,297.39	8.03	8.02	3.28	39.22	2.25	39.37	23.35	16.02	2.457			
2,400.00	2,399.98	2,395.89	2,395.36	8.39	8.37	5.60	47.20	5.04	45.96	29.27	16.69	2.754			
2,500.00	2,499.84	2,493.97	2,492.73	8.75	8.72	9.03	58.32	8.93	52.58	35.24	17.34	3.033			
2,600.00	2,599.45	2,591.78	2,589.36	9.10	9.08	12.73	72.53	13.91	59.34	41.37	17.96	3.303			
2,700.00	2,698.70	2,689.30	2,685.15	9.46	9.44	16.57	89.80	19.95	66.35	47.78	18.57	3.573			
2,800.00	2,797.47	2,786.53	2,779.98	9.82	9.82	20.48	110.06	27.04	73.74	54.58	19.16	3.849			
2,900.00	2,895.62	2,883.45	2,873.72	10.20	10.21	24.38	133.28	35.17	81.61	61.87	19.74	4.134			
3,000.00	2,993.06	2,980.05	2,966.28	10.58	10.62	28.20	159.38	44.30	90.05	69.74	20.32	4.433			
3,100.00	3,089.64	3,076.33	3,057.54	10.98	11.05	31.91	188.30	54.43	99.15	78.25	20.90	4.743			
3,200.00	3,185.27	3,172.26	3,147.40	11.40	11.51	35.45	219.99	65.52	108.98	87.46	21.51	5.065			
3,300.00	3,279.82	3,267.86	3,235.78	11.85	12.00	38.82	254.38	77.55	119.58	97.42	22.16	5.395			
3,400.00	3,373.17	3,363.10	3,322.57	12.32	12.51	41.98	291.38	90.50	131.00	108.13	22.87	5.728			
3,425.78	3,397.02	3,387.59	3,344.68	12.45	12.65	42.77	301.34	93.99	134.08	111.02	23.06	5.815			
3,500.00	3,465.59	3,457.95	3,407.66	12.83	13.07	44.81	330.92	104.34	143.93	120.31	23.62	6.093			
3,600.00	3,557.97	3,552.17	3,490.77	13.35	13.65	46.67	372.81	119.00	159.92	135.53	24.39	6.556			
3,700.00	3,650.35	3,645.57	3,571.68	13.89	14.27	47.66	416.86	134.42	178.82	153.66	25.15	7.109			
3,800.00	3,742.72	3,737.98	3,650.18	14.45	14.93	48.00	462.86	150.52	200.45	174.56	25.89	7.742			
3,900.00	3,835.10	3,829.77	3,726.56	15.03	15.61	47.86	510.90	167.33	224.76	198.14	26.62	8.442			
4,000.00	3,927.48	3,925.81	3,805.62	15.61	16.37	47.56	562.37	185.34	250.40	222.82	27.58	9.080			
4,100.00	4,019.86	4,022.46	3,885.18	16.21	17.16	47.31	614.16	203.47	276.04	247.47	28.58	9.660			
4,200.00	4,112.23	4,119.11	3,964.74	16.82	17.96	47.10	665.96	221.60	301.69	272.09	29.59	10.194			
4,300.00	4,204.61	4,215.76	4,044.30	17.44	18.78	46.93	717.75	239.73	327.34	296.71	30.63	10.686			
4,400.00	4,296.99	4,312.41	4,123.86	18.06	19.62	46.78	769.55	257.85	353.00	321.31	31.68	11.141			
4,500.00	4,389.37	4,409.06	4,203.42	18.69	20.47	46.65	821.34	275.98	378.65	345.90	32.75	11.562			
4,600.00	4,481.74	4,505.71	4,282.98	19.33	21.33	46.54	873.14	294.11	404.31	370.48	33.83	11.952			
4,700.00	4,574.12	4,602.36	4,362.54	19.98	22.21	46.44	924.93	312.24	429.97	395.05	34.92	12.314			
4,800.00	4,666.50	4,699.01	4,442.10	20.63	23.09	46.35	976.73	330.36	455.63	419.61	36.02	12.650			
4,900.00	4,758.88	4,795.66	4,521.66	21.29	23.98	46.28	1,028.52	348.49	481.29	444.16	37.13	12.963			
5,000.00	4,851.25	4,892.31	4,601.22	21.95	24.87	46.21	1,080.32	366.62	506.95	468.71	38.24	13.255			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	4,943.63	4,988.96	4,680.79	22.61	25.78	46.14	1,132.11	384.74	532.61	493.24	39.37	13.529		
5,200.00	5,036.01	5,085.61	4,760.35	23.28	26.69	46.08	1,183.91	402.87	558.28	517.77	40.50	13.784		
5,300.00	5,128.39	5,182.26	4,839.91	23.95	27.60	46.03	1,235.70	421.00	583.94	542.30	41.64	14.024		
5,400.00	5,220.76	5,278.91	4,919.47	24.62	28.52	45.98	1,287.50	439.13	609.60	566.82	42.78	14.248		
5,500.00	5,313.14	5,375.55	4,999.03	25.30	29.44	45.94	1,339.29	457.25	635.27	591.33	43.93	14.460		
5,600.00	5,405.52	5,472.20	5,078.59	25.98	30.37	45.90	1,391.09	475.38	660.93	615.84	45.09	14.659		
5,700.00	5,497.90	5,568.85	5,158.15	26.67	31.30	45.86	1,442.88	493.51	686.59	640.35	46.25	14.846		
5,800.00	5,590.28	5,665.50	5,237.71	27.35	32.24	45.82	1,494.68	511.64	712.26	664.85	47.41	15.024		
5,900.00	5,682.65	5,762.15	5,317.27	28.04	33.17	45.79	1,546.47	529.76	737.92	689.35	48.58	15.191		
6,000.00	5,775.03	5,858.80	5,396.83	28.73	34.11	45.76	1,598.27	547.89	763.59	713.84	49.75	15.349		
6,100.00	5,867.41	5,955.45	5,476.39	29.42	35.06	45.73	1,650.06	566.02	789.26	738.33	50.92	15.499		
6,200.00	5,959.79	6,052.10	5,555.95	30.11	36.00	45.71	1,701.86	584.15	814.92	762.82	52.10	15.642		
6,300.00	6,052.16	6,148.75	5,635.51	30.80	36.95	45.68	1,753.65	602.27	840.59	787.31	53.28	15.777		
6,400.00	6,144.54	6,245.40	5,715.07	31.50	37.90	45.66	1,805.45	620.40	866.25	811.79	54.46	15.906		
6,500.00	6,236.92	6,342.05	5,794.63	32.20	38.85	45.64	1,857.24	638.53	891.92	836.27	55.65	16.028		
6,600.00	6,329.30	6,438.70	5,874.19	32.90	39.80	45.61	1,909.04	656.65	917.59	860.75	56.84	16.145		
6,700.00	6,421.67	6,535.35	5,953.75	33.60	40.75	45.59	1,960.83	674.78	943.25	885.23	58.03	16.256		
6,800.00	6,514.05	6,632.00	6,033.31	34.30	41.71	45.58	2,012.63	692.91	968.92	909.70	59.22	16.362		
6,809.17	6,522.52	6,640.86	6,040.60	34.36	41.80	45.57	2,017.37	694.57	971.27	911.94	59.33	16.371		
6,850.00	6,560.22	6,680.02	6,072.84	34.65	42.18	45.58	2,038.36	701.92	982.77	922.92	59.84	16.422		
6,900.00	6,606.13	6,726.96	6,111.48	35.00	42.65	45.77	2,063.51	710.72	999.55	938.99	60.55	16.507		
6,950.00	6,651.44	6,772.43	6,148.91	35.34	43.10	73.36	2,087.88	719.25	1,019.23	957.88	61.34	16.616		
7,000.00	6,695.79	6,816.10	6,184.85	35.67	43.53	80.09	2,111.28	727.44	1,041.70	979.50	62.20	16.749		
7,050.00	6,738.87	8,324.12	6,963.00	36.00	49.60	59.77	2,609.95	-39.14	1,031.52	975.92	55.60	18.554		
7,100.00	6,780.32	8,346.14	6,963.00	36.31	49.59	66.42	2,609.77	-61.16	1,006.42	949.42	57.00	17.657		
7,150.00	6,819.85	8,371.99	6,963.00	36.61	49.58	71.53	2,609.55	-87.00	983.80	925.39	58.41	16.844		
7,200.00	6,857.14	8,401.47	6,963.00	36.91	49.58	75.39	2,609.31	-116.48	963.71	903.89	59.82	16.111		
7,250.00	6,891.92	8,434.35	6,963.00	37.19	49.57	78.25	2,609.03	-149.36	946.14	884.88	61.27	15.443		
7,300.00	6,923.92	8,470.39	6,963.00	37.46	49.57	80.32	2,608.73	-185.40	931.04	868.34	62.70	14.849		
7,350.00	6,952.90	8,509.31	6,963.00	37.73	49.59	81.76	2,608.40	-224.32	918.28	854.15	64.12	14.321		
7,400.00	6,978.63	8,550.81	6,963.00	37.99	49.62	82.73	2,608.05	-265.82	907.70	842.13	65.58	13.842		
7,450.00	7,000.93	8,594.59	6,963.00	38.25	49.66	83.33	2,607.69	-309.59	899.14	832.12	67.01	13.417		
7,500.00	7,019.61	8,640.30	6,963.00	38.51	49.73	83.67	2,607.30	-355.30	892.40	823.91	68.49	13.030		
7,550.00	7,034.55	8,687.60	6,963.00	38.77	49.82	83.85	2,606.91	-402.60	887.32	817.36	69.96	12.683		
7,600.00	7,045.61	8,736.13	6,963.00	39.04	49.94	83.92	2,606.50	-451.13	883.73	812.26	71.47	12.366		
7,650.00	7,052.73	8,785.51	6,963.00	39.32	50.11	83.94	2,606.09	-500.51	881.50	808.53	72.97	12.080		
7,700.00	7,055.85	8,835.38	6,963.00	39.60	50.32	83.94	2,605.67	-550.38	880.55	806.05	74.50	11.820		
7,713.14	7,056.00	8,848.52	6,963.00	39.67	50.38	83.94	2,605.56	-563.52	880.51	805.61	74.90	11.756		
7,713.69	7,056.00	8,849.07	6,963.00	39.68	50.38	83.94	2,605.55	-564.07	880.51	805.59	74.91	11.753		
7,800.00	7,056.00	8,935.38	6,963.00	40.23	50.91	83.94	2,604.83	-650.38	880.53	802.89	77.64	11.341		
7,900.00	7,056.00	9,035.38	6,963.00	41.02	51.80	83.94	2,603.99	-750.37	880.56	799.53	81.03	10.867		
8,000.00	7,056.00	9,135.38	6,963.00	41.97	53.01	83.94	2,603.15	-850.37	880.59	795.94	84.64	10.403		
8,100.00	7,056.00	9,235.38	6,963.00	43.10	54.51	83.94	2,602.31	-950.37	880.61	792.16	88.45	9.956		
8,200.00	7,056.00	9,335.38	6,963.00	44.40	56.24	83.94	2,601.47	-1,050.36	880.64	788.21	92.43	9.528		
8,300.00	7,056.00	9,435.38	6,963.00	45.85	58.14	83.94	2,600.64	-1,150.36	880.67	784.12	96.55	9.121		
8,400.00	7,056.00	9,535.38	6,963.00	47.44	60.17	83.94	2,599.80	-1,250.36	880.69	779.89	100.80	8.737		
8,500.00	7,056.00	9,635.38	6,963.00	49.17	62.29	83.94	2,598.96	-1,350.35	880.72	775.56	105.16	8.375		
8,600.00	7,056.00	9,735.38	6,963.00	51.00	64.49	83.94	2,598.12	-1,450.35	880.75	771.13	109.62	8.034		
8,700.00	7,056.00	9,835.38	6,963.00	52.93	66.74	83.94	2,597.28	-1,550.35	880.78	766.61	114.17	7.715		
8,800.00	7,056.00	9,935.38	6,963.00	54.94	69.03	83.94	2,596.44	-1,650.34	880.80	762.01	118.79	7.415		
8,900.00	7,056.00	10,035.38	6,963.00	57.02	71.36	83.94	2,595.61	-1,750.34	880.83	757.35	123.48	7.133		
9,000.00	7,056.00	10,135.38	6,963.00	59.16	73.73	83.94	2,594.77	-1,850.33	880.86	752.63	128.23	6.869		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft			
Survey Program:		0-OWSG (Rev2) MWD				Semi Major Axis			Offset Wellbore Centre		Rule Assigned:			Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
9,100.00	7,056.00	10,235.38	6,963.00	61.36	76.12	83.94	2,593.93	-1,950.33	880.88	747.85	133.03	6.622					
9,200.00	7,056.00	10,335.38	6,963.00	63.60	78.54	83.94	2,593.09	-2,050.33	880.91	743.03	137.88	6.389					
9,300.00	7,056.00	10,435.38	6,963.00	65.89	80.98	83.94	2,592.25	-2,150.32	880.94	738.17	142.77	6.170					
9,400.00	7,056.00	10,535.38	6,963.00	68.21	83.43	83.94	2,591.41	-2,250.32	880.97	733.27	147.69	5.965					
9,500.00	7,056.00	10,635.38	6,963.00	70.56	85.91	83.94	2,590.57	-2,350.32	880.99	728.34	152.66	5.771					
9,600.00	7,056.00	10,735.38	6,963.00	72.95	88.40	83.94	2,589.74	-2,450.31	881.02	723.37	157.65	5.589					
9,700.00	7,056.00	10,835.38	6,963.00	75.35	90.90	83.94	2,588.90	-2,550.31	881.05	718.38	162.67	5.416					
9,800.00	7,056.00	10,935.38	6,963.00	77.78	93.41	83.94	2,588.06	-2,650.31	881.07	713.36	167.71	5.253					
9,900.00	7,056.00	11,035.38	6,963.00	80.23	95.94	83.94	2,587.22	-2,750.30	881.10	708.32	172.78	5.100					
10,000.00	7,056.00	11,135.38	6,963.00	82.70	98.48	83.94	2,586.38	-2,850.30	881.13	703.26	177.87	4.954					
10,100.00	7,056.00	11,235.38	6,963.00	85.19	101.03	83.94	2,585.54	-2,950.30	881.16	698.18	182.98	4.816					
10,200.00	7,056.00	11,335.38	6,963.00	87.69	103.58	83.94	2,584.70	-3,050.29	881.18	693.08	188.10	4.685					
10,300.00	7,056.00	11,435.38	6,963.00	90.20	106.15	83.94	2,583.87	-3,150.29	881.21	687.97	193.24	4.560					
10,400.00	7,056.00	11,535.38	6,963.00	92.73	108.72	83.94	2,583.03	-3,250.29	881.24	682.84	198.40	4.442					
10,500.00	7,056.00	11,635.38	6,963.00	95.27	111.30	83.94	2,582.19	-3,350.28	881.26	677.70	203.57	4.329					
10,600.00	7,056.00	11,735.38	6,963.00	97.81	113.88	83.94	2,581.35	-3,450.28	881.29	672.54	208.75	4.222					
10,700.00	7,056.00	11,835.38	6,963.00	100.37	116.47	83.94	2,580.51	-3,550.28	881.32	667.37	213.94	4.119					
10,800.00	7,056.00	11,935.38	6,963.00	102.94	119.07	83.94	2,579.67	-3,650.27	881.35	662.20	219.15	4.022					
10,900.00	7,056.00	12,035.38	6,963.00	105.51	121.67	83.94	2,578.84	-3,750.27	881.37	657.01	224.36	3.928					
11,000.00	7,056.00	12,135.38	6,963.00	108.09	124.28	83.94	2,578.00	-3,850.26	881.40	651.81	229.59	3.839					
11,100.00	7,056.00	12,235.38	6,963.00	110.68	126.89	83.94	2,577.16	-3,950.26	881.43	646.61	234.82	3.754					
11,200.00	7,056.00	12,335.38	6,963.00	113.28	129.51	83.94	2,576.32	-4,050.26	881.45	641.39	240.06	3.672					
11,300.00	7,056.00	12,435.38	6,963.00	115.88	132.13	83.94	2,575.48	-4,150.25	881.48	636.17	245.31	3.593					
11,400.00	7,056.00	12,535.38	6,963.00	118.49	134.76	83.94	2,574.64	-4,250.25	881.51	630.94	250.57	3.518					
11,500.00	7,056.00	12,635.38	6,963.00	121.10	137.39	83.94	2,573.80	-4,350.25	881.54	625.71	255.83	3.446					
11,600.00	7,056.00	12,735.38	6,963.00	123.72	140.02	83.94	2,572.97	-4,450.24	881.56	620.46	261.10	3.376					
11,700.00	7,056.00	12,835.38	6,963.00	126.34	142.65	83.94	2,572.13	-4,550.24	881.59	615.21	266.38	3.310					
11,800.00	7,056.00	12,935.38	6,963.00	128.97	145.29	83.94	2,571.29	-4,650.24	881.62	609.96	271.66	3.245					
11,900.00	7,056.00	13,035.38	6,963.00	131.60	147.93	83.94	2,570.45	-4,750.23	881.64	604.70	276.94	3.183					
12,000.00	7,056.00	13,135.38	6,963.00	134.23	150.58	83.95	2,569.61	-4,850.23	881.67	599.44	282.23	3.124					
12,100.00	7,056.00	13,235.38	6,963.00	136.87	153.22	83.95	2,568.77	-4,950.23	881.70	594.17	287.53	3.066					
12,200.00	7,056.00	13,335.38	6,963.00	139.51	155.87	83.95	2,567.94	-5,050.22	881.73	588.90	292.83	3.011					
12,300.00	7,056.00	13,435.38	6,963.00	142.15	158.52	83.95	2,567.10	-5,150.22	881.75	583.62	298.13	2.958					
12,400.00	7,056.00	13,535.38	6,963.00	144.80	161.18	83.95	2,566.26	-5,250.22	881.78	578.34	303.44	2.906					
12,500.00	7,056.00	13,635.38	6,963.00	147.45	163.83	83.95	2,565.42	-5,350.21	881.81	573.05	308.75	2.856					
12,600.00	7,056.00	13,735.38	6,963.00	150.10	166.49	83.95	2,564.58	-5,450.21	881.83	567.76	314.07	2.808					
12,700.00	7,056.00	13,835.38	6,963.00	152.75	169.15	83.95	2,563.74	-5,550.20	881.86	562.47	319.39	2.761					
12,800.00	7,056.00	13,935.38	6,963.00	155.41	171.81	83.95	2,562.90	-5,650.20	881.89	557.18	324.71	2.716					
12,900.00	7,056.00	14,035.38	6,963.00	158.07	174.48	83.95	2,562.07	-5,750.20	881.92	551.88	330.04	2.672					
13,000.00	7,056.00	14,135.38	6,963.00	160.73	177.14	83.95	2,561.23	-5,850.19	881.94	546.58	335.37	2.630					
13,100.00	7,056.00	14,235.38	6,963.00	163.39	179.81	83.95	2,560.39	-5,950.19	881.97	541.27	340.70	2.589					
13,200.00	7,056.00	14,335.38	6,963.00	166.06	182.48	83.95	2,559.55	-6,050.19	882.00	535.97	346.03	2.549					
13,300.00	7,056.00	14,435.38	6,963.00	168.73	185.15	83.95	2,558.71	-6,150.18	882.02	530.66	351.37	2.510					
13,400.00	7,056.00	14,535.38	6,963.00	171.40	187.82	83.95	2,557.87	-6,250.18	882.05	525.35	356.71	2.473					
13,500.00	7,056.00	14,635.38	6,963.00	174.07	190.49	83.95	2,557.04	-6,350.18	882.08	520.03	362.05	2.436					
13,600.00	7,056.00	14,735.38	6,963.00	176.74	193.16	83.95	2,556.20	-6,450.17	882.11	514.72	367.39	2.401					
13,700.00	7,056.00	14,835.38	6,963.00	179.41	195.84	83.95	2,555.36	-6,550.17	882.13	509.40	372.74	2.367					
13,800.00	7,056.00	14,935.38	6,963.00	182.09	198.52	83.95	2,554.52	-6,650.17	882.16	504.08	378.08	2.333					
13,900.00	7,056.00	15,035.38	6,963.00	184.76	201.19	83.95	2,553.68	-6,750.16	882.19	498.75	383.43	2.301					
14,000.00	7,056.00	15,135.38	6,963.00	187.44	203.87	83.95	2,552.84	-6,850.16	882.21	493.43	388.78	2.269					
14,100.00	7,056.00	15,235.38	6,963.00	190.12	206.55	83.95	2,552.00	-6,950.16	882.24	488.10	394.14	2.238					
14,200.00	7,056.00	15,335.38	6,963.00	192.80	209.23	83.95	2,551.17	-7,050.15	882.27	482.78	399.49	2.208					

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,300.00	7,056.00	15,435.38	6,963.00	195.48	211.92	83.95	2,550.33	-7,150.15	882.30	477.45	404.85	2.179		
14,400.00	7,056.00	15,535.38	6,963.00	198.16	214.60	83.95	2,549.49	-7,250.15	882.32	472.12	410.21	2.151		
14,500.00	7,056.00	15,635.38	6,963.00	200.85	217.28	83.95	2,548.65	-7,350.14	882.35	466.78	415.57	2.123		
14,600.00	7,056.00	15,735.38	6,963.00	203.53	219.97	83.95	2,547.81	-7,450.14	882.38	461.45	420.93	2.096		
14,700.00	7,056.00	15,835.38	6,963.00	206.22	222.65	83.95	2,546.97	-7,550.13	882.40	456.11	426.29	2.070		
14,800.00	7,056.00	15,935.38	6,963.00	208.91	225.34	83.95	2,546.14	-7,650.13	882.43	450.78	431.65	2.044		
14,900.00	7,056.00	16,035.38	6,963.00	211.59	228.03	83.95	2,545.30	-7,750.13	882.46	445.44	437.02	2.019		
15,000.00	7,056.00	16,135.38	6,963.00	214.28	230.72	83.95	2,544.46	-7,850.12	882.49	440.10	442.39	1.995		
15,100.00	7,056.00	16,235.38	6,963.00	216.97	233.41	83.95	2,543.62	-7,950.12	882.51	434.76	447.75	1.971		
15,200.00	7,056.00	16,335.38	6,963.00	219.66	236.10	83.95	2,542.78	-8,050.12	882.54	429.42	453.12	1.948		
15,300.00	7,056.00	16,435.38	6,963.00	222.35	238.79	83.95	2,541.94	-8,150.11	882.57	424.08	458.49	1.925		
15,400.00	7,056.00	16,535.38	6,963.00	225.04	241.48	83.95	2,541.10	-8,250.11	882.59	418.73	463.86	1.903		
15,403.10	7,056.00	16,538.48	6,963.00	225.13	241.56	83.95	2,541.08	-8,253.21	882.60	418.57	464.03	1.902		
15,496.19	7,056.00	16,598.86	6,963.00	227.63	243.19	83.95	2,540.57	-8,313.58	883.23	414.00	469.23	1.882 SF		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	6.00	6.00	0.00	0.00	23.90	1,860.13	824.42	2,034.63					
100.00	100.00	90.75	90.75	0.14	0.27	23.90	1,860.37	824.56	2,034.97	2,034.56	0.41	4,907.986		
200.00	200.00	189.10	189.09	0.50	0.62	23.90	1,861.33	824.71	2,035.93	2,034.80	1.12	1,814.649		
300.00	300.00	343.18	343.10	0.86	1.16	23.77	1,862.77	820.59	2,035.84	2,033.81	2.02	1,005.374		
400.00	400.00	500.53	500.02	1.22	1.74	23.50	1,861.60	809.26	2,032.07	2,029.12	2.95	687.987		
500.00	500.00	618.16	616.89	1.58	2.19	23.16	1,860.89	795.99	2,027.02	2,023.26	3.76	539.557		
600.00	600.00	749.53	746.91	1.94	2.73	22.68	1,860.08	777.28	2,020.87	2,016.23	4.64	435.564		
700.00	700.00	885.09	880.30	2.29	3.33	22.06	1,858.60	753.16	2,012.97	2,007.39	5.58	360.740		
800.00	800.00	1,010.59	1,002.76	2.65	3.93	21.35	1,857.20	725.82	2,003.68	1,997.17	6.51	307.935		
900.00	900.00	1,135.62	1,124.27	3.01	4.57	20.58	1,854.94	696.44	1,993.35	1,985.88	7.47	266.890		
1,000.00	1,000.00	1,256.28	1,240.84	3.37	5.22	19.77	1,851.57	665.48	1,981.50	1,973.05	8.44	234.768		
1,100.00	1,100.00	1,342.41	1,323.50	3.73	5.72	19.13	1,849.57	641.40	1,969.67	1,960.39	9.28	212.247		
1,200.00	1,200.00	1,421.37	1,398.97	4.09	6.19	18.48	1,849.19	618.18	1,959.31	1,949.21	10.10	194.050		
1,300.00	1,300.00	1,512.28	1,485.59	4.45	6.74	17.71	1,849.55	590.59	1,949.84	1,938.83	11.00	177.184		
1,400.00	1,400.00	1,609.29	1,577.80	4.80	7.36	16.85	1,850.15	560.45	1,940.79	1,928.82	11.97	162.146		
1,500.00	1,500.00	1,704.52	1,667.92	5.16	7.98	15.97	1,851.09	529.69	1,932.18	1,919.23	12.94	149.261		
1,600.00	1,600.00	1,801.52	1,759.74	5.52	8.62	15.06	1,851.96	498.42	1,924.01	1,910.06	13.94	137.990		
1,700.00	1,700.00	1,874.81	1,829.21	5.88	9.10	14.38	1,852.83	475.10	1,916.73	1,901.94	14.79	129.567		
1,800.00	1,800.00	1,974.40	1,924.02	6.24	9.74	13.48	1,854.43	444.65	1,910.64	1,894.84	15.80	120.927		
1,900.00	1,900.00	2,068.57	2,013.68	6.60	10.35	12.63	1,855.57	415.91	1,904.66	1,887.88	16.78	113.517		
2,000.00	2,000.00	2,200.61	2,138.26	6.95	11.25	11.33	1,856.87	372.18	1,898.41	1,880.37	18.04	105.229		
2,100.00	2,100.00	2,307.61	2,239.02	7.31	12.00	10.26	1,856.45	336.19	1,891.33	1,872.17	19.16	98.714		
2,200.00	2,200.00	2,404.69	2,329.64	7.67	12.71	9.22	1,856.18	301.36	1,884.54	1,864.30	20.24	93.108		
2,300.00	2,300.00	2,504.23	2,422.08	8.03	13.46	8.11	1,855.84	264.48	1,878.18	1,856.82	21.37	87.906		
2,400.00	2,399.98	2,600.89	2,511.95	8.39	14.19	6.37	1,855.15	228.86	1,870.48	1,848.01	22.47	83.256		
2,500.00	2,499.84	2,689.65	2,595.26	8.75	14.83	5.47	1,854.22	198.27	1,860.00	1,836.51	23.48	79.204		
2,600.00	2,599.45	2,772.01	2,673.20	9.10	15.40	4.69	1,853.55	171.68	1,847.09	1,822.65	24.43	75.599		
2,700.00	2,698.70	2,851.31	2,747.94	9.46	15.96	3.90	1,853.59	145.18	1,831.96	1,806.60	25.36	72.234		
2,800.00	2,797.47	2,953.04	2,843.94	9.82	16.67	2.88	1,853.85	111.53	1,814.18	1,787.74	26.45	68.601		
2,900.00	2,895.62	3,085.10	2,968.39	10.20	17.60	1.49	1,852.08	67.40	1,791.96	1,764.24	27.73	64.628		
3,000.00	2,993.06	3,177.01	3,055.26	10.58	18.24	0.52	1,849.73	37.49	1,765.91	1,737.18	28.74	61.450		
3,100.00	3,089.64	3,260.46	3,133.67	10.98	18.84	-0.45	1,848.09	8.96	1,737.56	1,707.86	29.70	58.509		
3,200.00	3,185.27	3,354.46	3,221.94	11.40	19.52	-1.61	1,846.14	-23.29	1,706.40	1,675.67	30.73	55.524		
3,300.00	3,279.82	3,442.82	3,305.25	11.85	20.15	-2.74	1,844.18	-52.67	1,672.43	1,640.72	31.72	52.732		
3,400.00	3,373.17	3,524.01	3,381.88	12.32	20.72	-3.84	1,842.54	-79.45	1,636.01	1,603.36	32.64	50.119		
3,425.78	3,397.02	3,543.36	3,400.12	12.45	20.85	-4.11	1,842.20	-85.90	1,626.27	1,593.39	32.87	49.469		
3,500.00	3,465.59	3,598.92	3,452.40	12.83	21.25	-4.90	1,841.42	-104.70	1,598.39	1,564.86	33.53	47.667		
3,600.00	3,557.97	3,660.35	3,510.01	13.35	21.70	-5.80	1,841.10	-126.03	1,562.35	1,528.01	34.34	45.501		
3,700.00	3,650.35	3,720.98	3,566.61	13.89	22.16	-6.74	1,841.79	-147.72	1,528.62	1,493.48	35.14	43.507		
3,800.00	3,742.72	3,784.20	3,625.18	14.45	22.65	-7.79	1,843.35	-171.46	1,497.21	1,461.25	35.96	41.635		
3,900.00	3,835.10	3,869.81	3,703.91	15.03	23.34	-9.30	1,846.12	-204.99	1,467.74	1,430.76	36.98	39.686		
4,000.00	3,927.48	3,959.57	3,786.37	15.61	24.07	-10.95	1,848.66	-240.36	1,439.20	1,401.15	38.04	37.832		
4,100.00	4,019.86	4,074.62	3,892.60	16.21	24.99	-13.10	1,851.17	-284.44	1,411.25	1,371.96	39.29	35.921		
4,200.00	4,112.23	4,208.75	4,018.30	16.82	25.98	-15.57	1,850.45	-331.21	1,381.21	1,340.61	40.60	34.019		
4,300.00	4,204.61	4,277.00	4,082.35	17.44	26.48	-16.87	1,849.65	-354.76	1,352.07	1,310.65	41.42	32.641		
4,400.00	4,296.99	4,351.89	4,152.46	18.06	27.04	-18.35	1,849.47	-381.06	1,325.17	1,282.89	42.28	31.341		
4,500.00	4,389.37	4,426.18	4,221.90	18.69	27.60	-19.86	1,850.01	-407.48	1,300.59	1,257.47	43.13	30.159		
4,600.00	4,481.74	4,504.19	4,294.70	19.33	28.18	-21.49	1,851.16	-435.48	1,278.23	1,234.25	43.98	29.064		
4,700.00	4,574.12	4,585.40	4,370.50	19.98	28.80	-23.23	1,852.83	-464.56	1,257.89	1,213.05	44.84	28.052		
4,800.00	4,666.50	4,671.28	4,450.78	20.63	29.44	-25.08	1,855.13	-495.01	1,239.55	1,193.83	45.72	27.111		
4,900.00	4,758.88	4,773.50	4,546.64	21.29	30.20	-27.31	1,857.17	-530.42	1,221.95	1,175.23	46.72	26.153		
5,000.00	4,851.25	4,847.00	4,615.36	21.95	30.74	-28.98	1,858.52	-566.47	1,206.39	1,158.93	47.46	25.420		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,943.63	4,945.09	4,706.86	22.61	31.49	-31.28	1,860.10	-591.77	1,192.79	1,144.39	48.40	24.643		
5,200.00	5,036.01	5,059.73	4,814.23	23.28	32.34	-34.01	1,860.28	-631.94	1,179.59	1,130.13	49.47	23.845		
5,300.00	5,128.39	5,162.18	4,911.00	23.95	33.06	-36.44	1,859.77	-665.58	1,166.73	1,116.35	50.39	23.155		
5,400.00	5,220.76	5,254.20	4,998.37	24.62	33.68	-38.61	1,859.46	-694.44	1,155.10	1,103.91	51.19	22.563		
5,500.00	5,313.14	5,340.46	5,080.52	25.30	34.26	-40.64	1,859.68	-720.78	1,145.27	1,093.34	51.93	22.053		
5,600.00	5,405.52	5,418.00	5,154.27	25.98	34.78	-42.47	1,860.10	-744.69	1,137.74	1,085.17	52.57	21.640		
5,700.00	5,497.90	5,493.96	5,226.41	26.67	35.29	-44.28	1,861.25	-768.44	1,133.05	1,079.87	53.18	21.306		
5,800.00	5,590.28	5,609.99	5,336.93	27.35	36.05	-46.99	1,863.91	-803.66	1,130.19	1,076.06	54.14	20.877		
5,900.00	5,682.65	5,737.05	5,459.15	28.04	36.82	-49.92	1,864.79	-838.35	1,125.93	1,070.81	55.13	20.423		
6,000.00	5,775.03	5,887.55	5,605.50	28.73	37.63	-53.27	1,865.27	-873.36	1,120.78	1,064.59	56.19	19.948		
6,100.00	5,867.41	5,978.42	5,694.53	29.42	38.08	-55.29	1,864.20	-891.54	1,113.67	1,056.80	56.87	19.583		
6,200.00	5,959.79	6,099.01	5,812.66	30.11	38.66	-58.07	1,860.70	-915.43	1,107.35	1,049.67	57.69	19.196		
6,300.00	6,052.16	6,240.05	5,951.50	30.80	39.26	-61.41	1,853.04	-938.97	1,099.18	1,040.68	58.51	18.787		
6,400.00	6,144.54	6,389.81	6,099.95	31.50	39.79	-64.91	1,843.72	-956.10	1,088.43	1,029.23	59.20	18.385		
6,500.00	6,236.92	6,508.70	6,218.49	32.20	40.11	-67.53	1,838.05	-962.96	1,075.25	1,015.44	59.82	17.976		
6,600.00	6,329.30	6,223.67	7,259.27	32.90	45.79	84.49	1,819.27	48.83	1,001.67	967.62	34.04	29.424		
6,700.00	6,421.67	8,221.51	7,259.33	33.60	45.77	84.03	1,819.32	46.67	901.70	867.47	34.24	26.338		
6,800.00	6,514.05	8,219.26	7,259.39	34.30	45.74	83.45	1,819.36	44.42	801.74	767.31	34.43	23.283		
6,809.17	6,522.52	8,219.04	7,259.39	34.36	45.74	83.39	1,819.37	44.21	792.58	758.13	34.45	23.005		
6,850.00	6,560.22	8,216.89	7,259.45	34.65	45.72	97.00	1,819.41	42.05	751.84	717.31	34.53	21.772		
6,900.00	6,606.13	8,210.90	7,259.62	35.00	45.65	108.90	1,819.55	36.07	702.38	667.76	34.62	20.286		
6,950.00	6,651.44	8,201.16	7,259.91	35.34	45.54	118.83	1,819.78	26.34	653.76	619.05	34.71	18.836		
7,000.00	6,695.79	8,187.62	7,260.35	35.67	45.38	126.90	1,820.13	12.80	606.39	571.60	34.79	17.429		
7,050.00	6,738.87	8,170.14	7,260.97	36.00	45.20	133.32	1,820.65	-4.66	560.68	525.80	34.88	16.075		
7,100.00	6,780.32	8,148.74	7,261.77	36.31	44.98	138.35	1,821.45	-26.03	517.02	482.03	34.99	14.778		
7,150.00	6,819.85	8,123.64	7,262.77	36.61	44.73	142.26	1,822.64	-51.07	475.82	440.69	35.13	13.545		
7,200.00	6,857.14	8,094.99	7,263.97	36.91	44.45	145.26	1,824.33	-79.65	437.47	402.14	35.33	12.383		
7,250.00	6,891.92	8,057.01	7,265.43	37.19	44.11	147.39	1,827.15	-117.49	402.17	366.80	35.37	11.369		
7,300.00	6,923.92	8,013.54	7,266.06	37.46	43.73	148.65	1,831.32	-160.76	369.61	334.15	35.47	10.421		
7,350.00	6,952.90	7,948.70	7,264.10	37.73	43.21	148.45	1,838.56	-225.15	339.45	304.13	35.33	9.609		
7,400.00	6,978.63	7,859.89	7,251.08	37.99	42.57	146.19	1,845.10	-312.66	308.00	271.48	36.52	8.434		
7,450.00	7,000.93	7,785.98	7,230.18	38.25	42.10	143.37	1,845.60	-383.49	273.91	234.54	39.37	6.958		
7,500.00	7,019.61	7,744.83	7,215.98	38.51	41.87	141.84	1,845.02	-422.10	241.28	200.29	40.98	5.887		
7,550.00	7,034.55	7,702.27	7,200.28	38.77	41.66	139.40	1,844.66	-461.66	211.79	168.66	43.13	4.911		
7,600.00	7,045.61	7,654.83	7,181.18	39.04	41.47	135.38	1,844.43	-505.08	185.51	139.13	46.38	3.999		
7,650.00	7,052.73	7,607.82	7,160.21	39.32	41.28	130.02	1,844.26	-547.14	162.64	112.16	50.48	3.222		
7,700.00	7,055.85	7,560.61	7,136.89	39.60	41.15	122.95	1,844.30	-588.19	143.94	88.30	55.65	2.587		
7,713.69	7,056.00	7,547.89	7,130.18	39.68	41.12	120.72	1,844.37	-598.99	139.69	82.48	57.21	2.442		
7,800.00	7,056.00	7,472.22	7,086.69	40.23	40.95	102.01	1,845.12	-660.87	119.80	51.54	68.26	1.755		
7,844.42	7,056.00	7,436.68	7,064.29	40.56	40.90	91.13	1,845.39	-688.46	116.55	43.49	73.05	1.595 CC, ES, SF		
7,900.00	7,056.00	7,395.78	7,037.00	41.02	40.85	77.94	1,845.56	-718.92	122.22	46.79	75.42	1.620		
8,000.00	7,056.00	7,332.54	6,991.33	41.97	40.81	58.93	1,845.49	-762.63	159.29	87.90	71.39	2.231		
8,100.00	7,056.00	7,278.71	6,949.57	43.10	40.80	46.22	1,845.25	-796.58	219.43	153.15	66.28	3.311		
8,200.00	7,056.00	7,226.00	6,906.81	44.40	40.79	37.14	1,845.19	-827.39	291.27	228.26	63.00	4.623		
8,300.00	7,056.00	7,191.84	6,878.14	45.85	40.80	32.62	1,845.17	-845.96	369.47	307.09	62.39	5.922		
8,400.00	7,056.00	7,157.42	6,848.48	47.44	40.81	28.87	1,845.06	-863.42	452.02	389.97	62.05	7.285		
8,500.00	7,056.00	7,130.00	6,824.35	49.17	40.81	26.34	1,844.90	-876.43	537.58	475.38	62.20	8.643		
8,600.00	7,056.00	7,098.83	6,796.43	51.00	40.82	23.86	1,844.60	-890.30	625.26	563.11	62.15	10.060		
8,700.00	7,056.00	7,073.44	6,773.38	52.93	40.83	22.10	1,844.20	-900.94	714.57	652.24	62.33	11.464		
8,800.00	7,056.00	7,035.00	6,737.98	54.94	40.84	19.77	1,843.34	-915.89	805.45	743.39	62.06	12.978		
8,900.00	7,056.00	7,035.00	6,737.98	57.02	40.84	19.77	1,843.34	-915.89	896.87	833.96	62.91	14.258		
9,000.00	7,056.00	7,035.00	6,737.98	59.16	40.84	19.77	1,843.34	-915.89	989.95	926.41	63.54	15.580		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,100.00	7,056.00	6,998.37	6,703.70	61.36	40.84	17.89	1,842.46	-928.73	1,082.86	1,019.58	63.28	17.111		
9,200.00	7,056.00	6,984.47	6,690.55	63.60	40.84	17.26	1,842.16	-933.22	1,176.94	1,113.43	63.51	18.532		
9,300.00	7,056.00	6,971.81	6,678.51	65.89	40.84	16.72	1,841.91	-937.12	1,271.59	1,207.88	63.71	19.958		
9,400.00	7,056.00	6,940.00	6,648.00	68.21	40.84	15.49	1,841.36	-946.14	1,367.13	1,303.54	63.59	21.499		
9,500.00	7,056.00	6,940.00	6,648.00	70.56	40.84	15.49	1,841.36	-946.14	1,462.40	1,398.46	63.94	22.871		
9,600.00	7,056.00	6,940.00	6,648.00	72.95	40.84	15.49	1,841.36	-946.14	1,558.27	1,494.03	64.24	24.257		
9,700.00	7,056.00	6,940.00	6,648.00	75.35	40.84	15.49	1,841.36	-946.14	1,654.62	1,590.13	64.49	25.656		
9,800.00	7,056.00	6,940.00	6,648.00	77.78	40.84	15.49	1,841.36	-946.14	1,751.39	1,686.68	64.71	27.066		
9,900.00	7,056.00	6,940.00	6,648.00	80.23	40.84	15.49	1,841.36	-946.14	1,848.49	1,783.60	64.90	28.483		
10,000.00	7,056.00	6,940.00	6,648.00	82.70	40.84	15.49	1,841.36	-946.14	1,945.89	1,880.83	65.06	29.907		
10,100.00	7,056.00	6,940.00	6,648.00	85.19	40.84	15.49	1,841.36	-946.14	2,043.55	1,978.33	65.21	31.337		
10,200.00	7,056.00	6,940.00	6,648.00	87.69	40.84	15.49	1,841.36	-946.14	2,141.41	2,076.07	65.34	32.772		
10,300.00	7,056.00	6,940.00	6,648.00	90.20	40.84	15.49	1,841.36	-946.14	2,239.47	2,174.01	65.46	34.211		
10,400.00	7,056.00	6,940.00	6,648.00	92.73	40.84	15.49	1,841.36	-946.14	2,337.69	2,272.12	65.57	35.652		
10,500.00	7,056.00	6,899.30	6,608.38	95.27	40.81	14.12	1,840.65	-955.32	2,434.06	2,368.68	65.37	37.234		
10,600.00	7,056.00	6,896.26	6,605.38	97.81	40.81	14.02	1,840.60	-955.88	2,532.25	2,466.80	65.46	38.687		
10,700.00	7,056.00	6,893.40	6,602.57	100.37	40.81	13.94	1,840.54	-956.38	2,630.57	2,565.03	65.53	40.140		
10,800.00	7,056.00	6,890.72	6,599.93	102.94	40.81	13.85	1,840.49	-956.84	2,728.99	2,663.37	65.61	41.594		
10,900.00	7,056.00	6,888.20	6,597.44	105.51	40.81	13.78	1,840.44	-957.26	2,827.50	2,761.82	65.68	43.049		
11,000.00	7,056.00	6,885.82	6,595.10	108.09	40.81	13.70	1,840.39	-957.65	2,926.10	2,860.35	65.75	44.503		
11,100.00	7,056.00	6,844.00	6,553.59	110.68	40.78	12.53	1,839.49	-962.54	3,026.61	2,961.03	65.58	46.151		
11,200.00	7,056.00	6,844.00	6,553.59	113.28	40.78	12.53	1,839.49	-962.54	3,125.17	3,059.51	65.66	47.593		
11,300.00	7,056.00	6,844.00	6,553.59	115.88	40.78	12.53	1,839.49	-962.54	3,223.81	3,158.07	65.74	49.036		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	6.00	6.00	0.00	0.00	23.57	1,890.73	824.70	2,062.76					
100.00	100.00	100.51	100.51	0.14	0.31	23.56	1,890.90	824.58	2,062.88	2,062.43	0.45	4,583.337		
200.00	200.00	203.10	203.10	0.50	0.67	23.54	1,891.51	823.86	2,063.14	2,061.97	1.18	1,754.785		
300.00	300.00	323.97	323.89	0.86	1.11	23.43	1,892.79	820.16	2,062.92	2,060.95	1.97	1,047.065		
400.00	400.00	490.33	489.70	1.22	1.73	23.08	1,894.00	806.98	2,060.45	2,057.51	2.94	699.924		
500.00	500.00	606.21	604.77	1.58	2.18	22.73	1,894.12	793.33	2,055.93	2,052.17	3.75	547.637		
600.00	600.00	704.64	702.30	1.94	2.59	22.38	1,894.57	780.09	2,051.15	2,046.64	4.51	455.137		
700.00	700.00	798.26	794.86	2.29	2.99	22.00	1,895.74	766.07	2,046.60	2,041.34	5.26	389.037		
800.00	800.00	889.39	884.58	2.65	3.39	21.57	1,898.09	750.26	2,042.50	2,036.48	6.02	339.298		
900.00	900.00	985.69	978.91	3.01	3.84	21.03	1,901.82	731.27	2,038.87	2,032.05	6.82	299.046		
1,000.00	1,000.00	1,110.24	1,100.45	3.37	4.45	20.28	1,906.81	704.53	2,034.99	2,027.21	7.78	261.525		
1,100.00	1,100.00	1,204.90	1,192.32	3.73	4.94	19.65	1,910.45	682.04	2,030.38	2,021.75	8.63	235.373		
1,200.00	1,200.00	1,308.39	1,292.33	4.09	5.50	18.90	1,915.19	655.87	2,026.22	2,016.67	9.54	212.301		
1,300.00	1,300.00	1,470.22	1,447.50	4.45	6.45	17.62	1,921.34	610.35	2,020.91	2,010.08	10.83	186.554		
1,400.00	1,400.00	1,631.68	1,600.66	4.80	7.46	16.22	1,923.11	559.35	2,012.24	2,000.06	12.18	165.269		
1,500.00	1,500.00	1,700.34	1,665.34	5.16	7.92	15.58	1,923.67	536.30	2,003.37	1,990.37	13.00	154.103		
1,600.00	1,600.00	1,768.35	1,729.42	5.52	8.38	14.94	1,925.18	513.57	1,996.32	1,982.49	13.83	144.394		
1,700.00	1,700.00	1,844.24	1,800.94	5.88	8.89	14.21	1,927.80	488.33	1,990.95	1,976.24	14.71	135.383		
1,800.00	1,800.00	1,948.59	1,899.32	6.24	9.60	13.22	1,931.65	453.74	1,986.42	1,970.65	15.78	125.888		
1,900.00	1,900.00	2,045.36	1,990.42	6.60	10.27	12.28	1,934.54	421.25	1,981.68	1,964.86	16.82	117.842		
2,000.00	2,000.00	2,136.23	2,075.39	6.95	10.92	11.36	1,938.04	389.24	1,977.96	1,960.12	17.83	110.904		
2,100.00	2,100.00	2,259.94	2,190.94	7.31	11.82	10.08	1,941.95	345.24	1,974.23	1,955.13	19.10	103.380		
2,200.00	2,200.00	2,353.10	2,277.75	7.67	12.52	9.10	1,943.99	311.48	1,970.10	1,949.93	20.16	97.722		
2,300.00	2,300.00	2,440.79	2,358.72	8.03	13.20	8.13	1,946.51	277.91	1,966.95	1,945.74	21.21	92.738		
2,400.00	2,399.98	2,568.18	2,476.05	8.39	14.21	6.01	1,949.54	228.41	1,962.39	1,939.82	22.58	86.920		
2,500.00	2,499.84	2,617.99	2,521.96	8.75	14.60	5.47	1,950.73	209.13	1,955.03	1,931.68	23.34	83.747		
2,600.00	2,599.45	2,674.13	2,573.80	9.10	15.05	4.86	1,953.22	187.70	1,946.84	1,922.69	24.15	80.624		
2,700.00	2,698.70	2,754.26	2,647.87	9.46	15.67	3.99	1,957.61	157.45	1,936.95	1,911.82	25.13	77.077		
2,800.00	2,797.47	2,834.50	2,722.13	9.82	16.30	3.12	1,962.49	127.46	1,924.89	1,898.78	26.11	73.729		
2,900.00	2,895.62	2,924.83	2,805.97	10.20	17.00	2.15	1,968.34	94.36	1,910.44	1,883.29	27.15	70.371		
3,000.00	2,993.06	3,042.35	2,915.99	10.58	17.87	0.93	1,975.24	53.63	1,892.70	1,864.34	28.37	66.724		
3,100.00	3,089.64	3,138.42	3,006.44	10.98	18.55	-0.07	1,980.00	21.59	1,871.27	1,841.88	29.39	63.670		
3,200.00	3,185.27	3,212.38	3,075.83	11.40	19.09	-0.88	1,983.94	-3.67	1,847.35	1,817.09	30.26	61.051		
3,300.00	3,279.82	3,335.52	3,191.31	11.85	19.99	-2.30	1,990.29	-45.93	1,820.62	1,789.13	31.49	57.814		
3,400.00	3,373.17	3,399.94	3,252.11	12.32	20.44	-3.06	1,993.45	-66.99	1,790.73	1,758.47	32.26	55.513		
3,425.78	3,397.02	3,424.00	3,274.85	12.45	20.61	-3.34	1,994.82	-74.72	1,782.77	1,750.25	32.51	54.836		
3,500.00	3,465.59	3,485.05	3,332.60	12.83	21.04	-4.04	1,998.37	-94.20	1,759.79	1,726.63	33.16	53.063		
3,600.00	3,557.97	3,560.33	3,403.78	13.35	21.56	-4.94	2,002.82	-118.30	1,729.50	1,695.50	34.00	50.875		
3,700.00	3,650.35	3,615.00	3,455.30	13.89	21.94	-5.61	2,006.69	-136.19	1,701.07	1,666.41	34.67	49.069		
3,800.00	3,742.72	3,682.89	3,518.89	14.45	22.45	-6.49	2,012.52	-159.23	1,674.80	1,639.36	35.45	47.248		
3,900.00	3,835.10	3,745.46	3,577.03	15.03	22.92	-7.35	2,018.98	-181.43	1,650.97	1,614.80	36.18	45.636		
4,000.00	3,927.48	3,815.73	3,642.05	15.61	23.46	-8.33	2,027.20	-206.76	1,629.33	1,592.36	36.97	44.076		
4,100.00	4,019.86	3,918.93	3,737.38	16.21	24.27	-9.83	2,039.14	-244.43	1,608.59	1,570.55	38.05	42.279		
4,200.00	4,112.23	4,013.03	3,824.31	16.82	25.01	-11.24	2,049.60	-278.93	1,588.48	1,549.45	39.03	40.694		
4,300.00	4,204.61	4,138.44	3,941.23	17.44	25.96	-13.07	2,062.73	-322.32	1,568.36	1,528.10	40.26	38.959		
4,400.00	4,296.99	4,245.06	4,041.01	18.06	26.75	-14.69	2,071.55	-358.84	1,547.07	1,505.76	41.30	37.455		
4,500.00	4,389.37	4,340.91	4,130.05	18.69	27.49	-16.25	2,078.61	-393.61	1,526.67	1,484.40	42.27	36.117		
4,600.00	4,481.74	4,456.86	4,238.22	19.33	28.37	-18.17	2,086.07	-434.70	1,506.40	1,463.02	43.38	34.723		
4,700.00	4,574.12	4,545.29	4,321.13	19.98	29.02	-19.64	2,091.07	-465.03	1,486.26	1,442.00	44.25	33.585		
4,800.00	4,666.50	4,642.34	4,412.46	20.63	29.72	-21.25	2,096.94	-497.34	1,467.26	1,422.09	45.17	32.483		
4,900.00	4,758.88	4,732.67	4,497.67	21.29	30.36	-22.77	2,102.16	-526.85	1,448.98	1,402.96	46.02	31.485		
5,000.00	4,851.25	4,812.47	4,572.76	21.95	30.95	-24.15	2,106.76	-553.47	1,432.15	1,385.36	46.79	30.608		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 16-OWSG (Rev2) MWD										Rule Assigned:			Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	4,943.63	4,895.10	4,650.00	22.61	31.56	-25.66	2,111.44	-582.46	1,417.28	1,369.70	47.57	29.792	
5,200.00	5,036.01	4,998.38	4,746.90	23.28	32.31	-27.54	2,117.66	-617.64	1,403.64	1,355.14	48.51	28.937	
5,300.00	5,128.39	5,102.80	4,845.88	23.95	33.03	-29.37	2,123.93	-650.29	1,389.95	1,340.53	49.42	28.127	
5,400.00	5,220.76	5,199.71	4,938.05	24.62	33.68	-31.07	2,129.70	-679.66	1,377.04	1,326.79	50.25	27.402	
5,500.00	5,313.14	5,283.23	5,017.51	25.30	34.24	-32.56	2,134.47	-704.95	1,365.21	1,314.23	50.98	26.781	
5,600.00	5,405.52	5,394.43	5,123.54	25.98	34.96	-34.52	2,141.87	-737.62	1,354.99	1,303.09	51.90	26.108	
5,700.00	5,497.90	5,510.28	5,234.61	26.67	35.69	-36.59	2,147.18	-770.11	1,343.58	1,290.75	52.83	25.431	
5,800.00	5,590.28	5,644.93	5,364.45	27.35	36.48	-39.03	2,151.24	-805.52	1,331.41	1,277.56	53.85	24.723	
5,900.00	5,682.65	5,802.92	5,517.97	28.04	37.33	-41.94	2,151.44	-842.75	1,317.06	1,262.15	54.91	23.987	
6,000.00	5,775.03	5,880.08	5,593.25	28.73	37.72	-43.40	2,150.24	-859.67	1,301.75	1,246.15	55.60	23.415	
6,100.00	5,867.41	6,007.31	5,718.17	29.42	38.31	-45.66	2,150.78	-883.62	1,287.10	1,230.65	56.45	22.802	
6,200.00	5,959.79	6,113.51	5,823.08	30.11	38.75	-47.45	2,152.20	-900.07	1,271.98	1,214.79	57.20	22.238	
6,300.00	6,052.16	6,248.22	5,956.94	30.80	39.22	-49.63	2,153.77	-915.04	1,254.46	1,196.49	57.97	21.640	
6,400.00	6,144.54	6,350.85	6,059.08	31.50	39.56	-51.32	2,154.55	-924.99	1,236.94	1,178.25	58.68	21.078	
6,500.00	6,236.92	6,076.47	7,119.43	32.20	45.15	4.53	2,180.76	56.98	1,177.52	1,131.36	46.16	25.510	
6,600.00	6,329.30	8,074.62	7,119.44	32.90	45.13	4.26	2,180.85	55.13	1,083.71	1,036.06	47.65	22.741	
6,700.00	6,421.67	8,072.66	7,119.45	33.60	45.11	3.97	2,180.94	53.17	991.11	941.73	49.39	20.068	
6,800.00	6,514.05	8,070.57	7,119.46	34.30	45.09	3.67	2,181.03	51.09	900.10	848.68	51.42	17.506	
6,809.17	6,522.52	8,070.38	7,119.46	34.36	45.09	3.64	2,181.04	50.89	891.85	840.23	51.62	17.278	
6,850.00	6,560.22	8,067.76	7,119.48	34.65	45.06	21.01	2,181.15	48.28	855.42	802.88	52.54	16.280	
6,900.00	6,606.13	8,059.73	7,119.57	35.00	44.97	39.73	2,181.45	40.26	811.79	758.07	53.72	15.113	
6,950.00	6,651.44	8,046.20	7,119.81	35.34	44.83	55.06	2,181.85	26.73	769.59	714.68	54.91	14.016	
7,000.00	6,695.79	8,027.00	7,120.34	35.67	44.63	67.05	2,182.18	7.55	729.18	673.08	56.10	12.998	
7,050.00	6,738.87	8,002.06	7,121.36	36.00	44.36	76.14	2,182.20	-17.37	690.85	633.60	57.25	12.067	
7,100.00	6,780.32	7,977.09	7,122.70	36.31	44.12	83.38	2,181.86	-42.31	654.85	596.37	58.48	11.199	
7,150.00	6,819.85	7,950.65	7,124.26	36.61	43.88	88.98	2,181.46	-68.70	621.60	561.87	59.73	10.406	
7,200.00	6,857.14	7,920.55	7,126.17	36.91	43.61	93.11	2,181.02	-98.73	591.36	530.42	60.94	9.704	
7,250.00	6,891.92	7,885.27	7,128.55	37.19	43.31	95.99	2,180.51	-133.93	564.26	502.21	62.05	9.094	
7,300.00	6,923.92	7,844.18	7,130.47	37.46	42.99	97.76	2,180.09	-174.97	540.17	477.09	63.07	8.564	
7,350.00	6,952.90	7,801.64	7,131.19	37.73	42.67	98.80	2,179.89	-217.51	519.10	455.01	64.09	8.099	
7,400.00	6,978.63	7,718.89	7,122.25	37.99	42.11	96.35	2,178.87	-299.60	499.47	434.87	64.61	7.731	
7,450.00	7,000.93	7,677.76	7,112.03	38.25	41.86	95.85	2,177.97	-339.42	481.68	415.71	65.98	7.301	
7,500.00	7,019.61	7,641.20	7,101.95	38.51	41.65	95.22	2,177.50	-374.56	467.82	400.48	67.34	6.947	
7,550.00	7,034.55	7,601.62	7,090.07	38.77	41.44	93.96	2,177.37	-412.31	457.87	389.26	68.61	6.674	
7,600.00	7,045.61	7,556.18	7,073.56	39.04	41.24	91.79	2,177.30	-454.64	451.29	381.54	69.76	6.470	
7,650.00	7,052.73	7,512.53	7,054.26	39.32	41.06	89.22	2,177.16	-493.77	447.98	377.12	70.86	6.322	
7,686.64	7,055.41	7,474.11	7,034.43	39.52	40.93	86.54	2,176.51	-526.66	447.34	375.82	71.52	6.254 CC	
7,700.00	7,055.85	7,460.79	7,026.94	39.60	40.89	85.54	2,176.09	-537.66	447.43	375.68	71.75	6.236 ES	
7,713.69	7,056.00	7,447.48	7,019.14	39.68	40.85	84.50	2,175.58	-548.43	447.71	375.72	71.99	6.219	
7,800.00	7,056.00	7,385.59	6,979.75	40.23	40.72	79.48	2,172.50	-596.04	453.25	379.47	73.78	6.143 SF	
7,900.00	7,056.00	7,326.00	6,939.89	41.02	40.61	74.54	2,170.76	-640.30	470.27	394.73	75.55	6.225	
8,000.00	7,056.00	7,273.00	6,903.20	41.97	40.55	70.22	2,170.56	-678.54	498.55	421.77	76.78	6.493	
8,100.00	7,056.00	7,219.32	6,864.83	43.10	40.50	66.01	2,171.66	-716.07	537.04	459.74	77.30	6.948	
8,200.00	7,056.00	7,166.41	6,825.42	44.40	40.48	61.98	2,172.88	-751.34	583.90	506.62	77.28	7.555	
8,300.00	7,056.00	7,117.64	6,787.54	45.85	40.47	58.37	2,173.61	-782.04	637.93	560.96	76.97	8.288	
8,400.00	7,056.00	7,072.42	6,751.00	47.44	40.48	55.08	2,173.27	-808.67	697.97	621.51	76.47	9.128	
8,500.00	7,056.00	7,040.00	6,724.00	49.17	40.48	52.76	2,172.30	-826.58	763.31	687.18	76.13	10.026	
8,600.00	7,056.00	6,995.16	6,685.80	51.00	40.49	49.65	2,170.25	-849.98	832.97	757.62	75.35	11.055	
8,700.00	7,056.00	6,961.13	6,656.30	52.93	40.51	47.39	2,168.32	-866.82	906.36	831.53	74.84	12.111	
8,800.00	7,056.00	6,945.00	6,642.16	54.94	40.51	46.34	2,167.28	-874.52	983.03	908.28	74.75	13.152	
8,900.00	7,056.00	6,945.00	6,642.16	57.02	40.51	46.34	2,167.28	-874.52	1,063.39	988.45	74.94	14.189	
9,000.00	7,056.00	6,903.78	6,605.27	59.16	40.52	43.77	2,164.67	-892.69	1,144.73	1,070.48	74.26	15.415	

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft		
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
9,100.00	7,056.00	6,890.18	6,592.82	61.36	40.53	42.95	2,163.87	-898.12	1,229.10	1,154.95	74.15	16.577				
9,200.00	7,056.00	6,850.00	6,555.36	63.60	40.54	40.63	2,161.68	-912.45	1,316.21	1,242.66	73.56	17.894				
9,300.00	7,056.00	6,850.00	6,555.36	65.89	40.54	40.63	2,161.68	-912.45	1,403.31	1,329.62	73.69	19.043				
9,400.00	7,056.00	6,850.00	6,555.36	68.21	40.54	40.63	2,161.68	-912.45	1,492.03	1,418.24	73.79	20.221				
9,500.00	7,056.00	6,850.00	6,555.36	70.56	40.54	40.63	2,161.68	-912.45	1,582.09	1,508.24	73.85	21.424				
9,600.00	7,056.00	6,850.00	6,555.36	72.95	40.54	40.63	2,161.68	-912.45	1,673.29	1,599.40	73.89	22.646				
9,700.00	7,056.00	6,850.00	6,555.36	75.35	40.54	40.63	2,161.68	-912.45	1,765.43	1,691.52	73.91	23.886				
9,800.00	7,056.00	6,850.00	6,555.36	77.78	40.54	40.63	2,161.68	-912.45	1,858.39	1,784.47	73.92	25.140				
9,900.00	7,056.00	6,850.00	6,555.36	80.23	40.54	40.63	2,161.68	-912.45	1,952.05	1,878.12	73.92	26.407				
10,000.00	7,056.00	6,850.00	6,555.36	82.70	40.54	40.63	2,161.68	-912.45	2,046.30	1,972.39	73.92	27.683				
10,100.00	7,056.00	6,850.00	6,555.36	85.19	40.54	40.63	2,161.68	-912.45	2,141.08	2,067.17	73.91	28.969				
10,200.00	7,056.00	6,850.00	6,555.36	87.69	40.54	40.63	2,161.68	-912.45	2,236.31	2,162.41	73.90	30.262				
10,300.00	7,056.00	6,850.00	6,555.36	90.20	40.54	40.63	2,161.68	-912.45	2,331.94	2,258.06	73.88	31.562				
10,400.00	7,056.00	6,807.70	6,514.74	92.73	40.52	38.36	2,159.95	-924.07	2,425.29	2,351.74	73.56	32.972				
10,500.00	7,056.00	6,804.67	6,511.79	95.27	40.51	38.20	2,159.86	-924.74	2,521.21	2,447.68	73.54	34.286				
10,600.00	7,056.00	6,801.83	6,509.01	97.81	40.51	38.06	2,159.78	-925.34	2,617.42	2,543.90	73.52	35.603				
10,700.00	7,056.00	6,799.17	6,506.41	100.37	40.51	37.92	2,159.71	-925.89	2,713.87	2,640.37	73.50	36.923				
10,800.00	7,056.00	6,796.66	6,503.96	102.94	40.51	37.80	2,159.65	-926.39	2,810.55	2,737.07	73.49	38.246				
10,900.00	7,056.00	6,754.00	6,461.77	105.51	40.49	35.76	2,159.05	-932.57	2,909.78	2,836.55	73.23	39.733				
11,000.00	7,056.00	6,754.00	6,461.77	108.09	40.49	35.76	2,159.05	-932.57	3,006.60	2,933.36	73.25	41.048				
11,100.00	7,056.00	6,754.00	6,461.77	110.68	40.49	35.76	2,159.05	-932.57	3,103.63	3,030.37	73.26	42.366				
11,200.00	7,056.00	6,754.00	6,461.77	113.28	40.49	35.76	2,159.05	-932.57	3,200.84	3,127.57	73.27	43.686				

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 40N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	6.00	6.00	0.00	0.00	24.95	1,771.60	824.15	1,953.92					
100.00	100.00	105.33	105.33	0.14	0.32	24.95	1,771.56	824.26	1,953.93	1,953.47	0.46	4,214.207		
200.00	200.00	243.28	243.27	0.50	0.81	24.96	1,770.58	824.13	1,953.33	1,952.02	1.31	1,490.731		
300.00	300.00	412.59	412.40	0.86	1.41	24.96	1,763.80	821.02	1,948.43	1,946.16	2.27	857.077		
400.00	400.00	648.40	648.93	1.22	2.31	24.85	1,744.02	807.68	1,937.01	1,933.52	3.49	554.849		
500.00	500.00	825.10	821.83	1.58	3.05	24.71	1,723.56	793.20	1,923.43	1,918.93	4.50	427.859		
600.00	600.00	1,020.37	1,013.32	1.94	3.94	24.55	1,691.54	772.54	1,903.69	1,898.13	5.56	342.436		
700.00	700.00	1,139.85	1,129.86	2.29	4.53	24.46	1,668.95	759.01	1,881.80	1,875.44	6.35	296.287		
800.00	800.00	1,357.45	1,340.24	2.65	5.68	24.36	1,619.78	733.45	1,856.63	1,849.13	7.50	247.701		
900.00	900.00	1,456.11	1,434.71	3.01	6.25	24.32	1,594.45	720.44	1,827.79	1,819.57	8.22	222.371		
1,000.00	1,000.00	1,545.00	1,519.85	3.37	6.77	24.25	1,572.03	708.26	1,799.15	1,790.24	8.91	201.821		
1,100.00	1,100.00	1,631.95	1,603.24	3.73	7.27	24.18	1,550.60	696.14	1,770.93	1,761.33	9.61	184.331		
1,200.00	1,200.00	1,722.91	1,690.54	4.09	7.80	24.09	1,528.49	683.35	1,743.00	1,732.68	10.32	168.947		
1,300.00	1,300.00	1,834.58	1,797.57	4.45	8.46	23.97	1,500.97	667.32	1,714.60	1,703.51	11.10	154.516		
1,400.00	1,400.00	1,948.61	1,906.73	4.80	9.14	23.87	1,472.08	651.41	1,685.84	1,673.96	11.88	141.863		
1,500.00	1,500.00	2,065.65	2,018.08	5.16	9.87	23.70	1,441.27	632.73	1,655.24	1,642.56	12.68	130.516		
1,600.00	1,600.00	2,154.72	2,102.67	5.52	10.43	23.52	1,418.14	617.18	1,624.41	1,611.01	13.40	121.219		
1,700.00	1,700.00	2,273.31	2,215.19	5.88	11.19	23.25	1,387.27	595.96	1,593.41	1,579.21	14.21	112.154		
1,800.00	1,800.00	2,372.67	2,309.06	6.24	11.83	22.98	1,360.78	577.02	1,561.33	1,546.37	14.96	104.341		
1,900.00	1,900.00	2,483.42	2,413.42	6.60	12.57	22.65	1,330.66	555.38	1,528.59	1,512.84	15.75	97.030		
2,000.00	2,000.00	2,580.66	2,504.79	6.95	13.23	22.35	1,303.57	536.07	1,495.15	1,478.63	16.51	90.556		
2,100.00	2,100.00	2,656.00	2,575.77	7.31	13.73	22.13	1,282.86	521.59	1,462.35	1,445.14	17.22	84.943		
2,200.00	2,200.00	2,742.99	2,658.00	7.67	14.31	21.87	1,259.48	505.52	1,430.43	1,412.48	17.95	79.691		
2,300.00	2,300.00	2,849.94	2,759.05	8.03	15.01	21.52	1,230.88	485.29	1,398.51	1,379.77	18.73	74.648		
2,400.00	2,399.98	2,930.23	2,834.88	8.39	15.55	20.81	1,209.62	469.64	1,365.09	1,345.62	19.46	70.134		
2,500.00	2,499.84	3,000.20	2,901.26	8.75	16.00	20.88	1,191.76	456.57	1,329.83	1,309.66	20.17	65.947		
2,600.00	2,599.45	3,083.34	2,980.57	9.10	16.53	20.98	1,171.61	441.89	1,293.04	1,272.15	20.89	61.903		
2,700.00	2,698.70	3,178.01	3,070.79	9.46	17.12	21.11	1,148.72	424.59	1,253.12	1,231.49	21.63	57.931		
2,800.00	2,797.47	3,269.52	3,158.00	9.82	17.70	21.34	1,126.51	408.06	1,210.22	1,187.87	22.36	54.127		
2,900.00	2,895.62	3,361.25	3,245.41	10.20	18.28	21.71	1,103.73	392.09	1,164.18	1,141.10	23.07	50.454		
3,000.00	2,993.06	3,451.19	3,331.12	10.58	18.86	22.24	1,081.02	377.04	1,115.14	1,091.37	23.77	46.909		
3,100.00	3,089.64	3,541.31	3,416.88	10.98	19.43	22.91	1,057.98	361.62	1,062.94	1,038.48	24.46	43.458		
3,200.00	3,185.27	3,629.93	3,501.02	11.40	20.01	23.65	1,035.59	345.15	1,007.79	982.65	25.14	40.092		
3,300.00	3,279.82	3,726.91	3,592.49	11.85	20.66	24.47	1,010.93	324.42	948.94	923.13	25.81	36.766		
3,400.00	3,373.17	3,813.37	3,673.58	12.32	21.26	25.42	988.39	304.67	886.61	860.14	26.46	33.504		
3,425.78	3,397.02	3,834.44	3,693.31	12.45	21.41	25.71	982.80	299.80	870.04	843.41	26.63	32.671		
3,500.00	3,465.59	3,894.60	3,749.58	12.83	21.83	26.03	966.71	285.86	821.96	794.86	27.10	30.333		
3,600.00	3,557.97	3,972.28	3,822.17	13.35	22.38	26.54	945.56	268.08	756.95	729.22	27.73	27.297		
3,700.00	3,650.35	4,037.42	3,883.22	13.89	22.83	27.12	927.74	253.99	692.33	663.93	28.40	24.380		
3,800.00	3,742.72	4,100.52	3,942.89	14.45	23.25	27.96	910.98	242.15	629.32	600.23	29.08	21.638		
3,900.00	3,835.10	4,164.83	4,004.22	15.03	23.66	29.10	894.69	231.69	568.23	538.45	29.78	19.080		
4,000.00	3,927.48	4,245.02	4,081.03	15.61	24.15	30.91	875.05	219.63	508.48	478.05	30.43	16.709		
4,100.00	4,019.86	4,326.55	4,158.91	16.21	24.66	33.14	854.81	206.58	448.51	417.42	31.09	14.425		
4,200.00	4,112.23	4,410.39	4,238.84	16.82	25.20	36.09	833.73	192.53	388.58	356.82	31.76	12.234		
4,300.00	4,204.61	4,491.51	4,315.69	17.44	25.73	39.95	812.21	178.06	327.98	295.46	32.53	10.083		
4,400.00	4,296.99	4,564.80	4,385.30	18.06	26.21	44.82	793.21	165.16	269.26	235.65	33.61	8.011		
4,500.00	4,389.37	4,640.46	4,457.46	18.69	26.69	52.04	774.48	152.29	213.96	178.82	35.14	6.089		
4,600.00	4,481.74	4,719.64	4,533.13	19.33	27.18	63.58	755.19	139.14	163.91	126.21	37.70	4.348		
4,700.00	4,574.12	4,798.79	4,608.58	19.98	27.69	81.69	735.18	126.03	124.39	81.89	42.49	2.927		
4,796.67	4,663.42	4,874.43	4,680.45	20.61	28.18	105.39	715.41	113.27	108.60	60.88	47.73	2.275 CC		
4,800.00	4,666.50	4,877.03	4,682.92	20.63	28.19	106.25	714.72	112.83	108.62	60.79	47.83	2.271 ES, SF		
4,900.00	4,758.88	4,955.03	4,756.99	21.29	28.70	130.50	694.29	99.38	126.52	78.75	47.76	2.649		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 40N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.00	4,851.25	5,034.17	4,832.48	21.95	29.20	147.98	674.40	86.36	167.34	121.88	45.47	3.681		
5,100.00	4,943.63	5,114.68	4,909.67	22.61	29.69	159.04	655.15	74.00	217.68	173.61	44.07	4.939		
5,200.00	5,036.01	5,195.34	4,987.14	23.28	30.18	166.18	636.36	61.68	271.86	228.38	43.49	6.252		
5,300.00	5,128.39	5,276.00	5,064.47	23.95	30.67	171.26	617.67	48.40	328.03	284.70	43.34	7.569		
5,400.00	5,220.76	5,356.08	5,141.19	24.62	31.17	175.00	599.33	34.58	385.29	341.84	43.45	8.868		
5,500.00	5,313.14	5,435.44	5,217.10	25.30	31.66	177.85	581.07	20.42	443.49	399.78	43.71	10.146		
5,600.00	5,405.52	5,517.49	5,295.75	25.98	32.16	-179.95	562.41	6.38	502.04	457.88	44.16	11.369		
5,700.00	5,497.90	5,599.21	5,374.27	26.67	32.65	-178.30	544.09	-7.00	560.63	515.95	44.68	12.548		
5,800.00	5,590.28	5,683.70	5,455.54	27.35	33.15	-176.91	525.56	-20.82	619.08	573.79	45.29	13.669		
5,900.00	5,682.65	5,767.53	5,536.10	28.04	33.66	-175.66	507.82	-35.69	677.20	631.29	45.92	14.749		
6,000.00	5,775.03	5,837.16	5,602.63	28.73	34.10	-174.57	493.23	-50.14	735.69	689.35	46.34	15.877		
6,100.00	5,867.41	5,899.84	5,661.91	29.42	34.50	-173.58	478.89	-64.61	796.17	749.50	46.67	17.061		
6,200.00	5,959.79	5,980.84	5,738.53	30.11	35.04	-172.54	459.66	-82.50	857.43	810.10	47.33	18.115		
6,300.00	6,052.16	6,059.58	5,813.47	30.80	35.55	-171.86	440.72	-97.51	918.66	870.67	47.99	19.144		
6,400.00	6,144.54	6,133.17	5,883.70	31.50	36.01	-171.43	422.60	-109.89	980.09	931.51	48.58	20.175		
6,500.00	6,236.92	6,208.67	5,955.68	32.20	36.49	-171.05	403.50	-122.35	1,042.06	992.84	49.21	21.175		
6,600.00	6,329.30	6,292.27	6,035.45	32.90	37.02	-170.70	382.53	-135.99	1,103.85	1,053.88	49.97	22.090		
6,700.00	6,421.67	6,374.81	6,114.35	33.60	37.54	-170.40	362.12	-149.06	1,165.31	1,114.60	50.71	22.978		
6,800.00	6,514.05	6,444.50	6,180.96	34.30	37.97	-170.20	344.65	-159.77	1,226.99	1,175.70	51.28	23.926		
6,809.17	6,522.52	6,450.85	6,187.02	34.36	38.01	-170.18	343.03	-160.74	1,232.67	1,181.34	51.33	24.012		
6,850.00	6,560.22	6,480.03	6,214.88	34.65	38.19	-157.30	335.52	-165.08	1,257.80	1,206.22	51.59	24.382		
6,900.00	6,606.13	6,516.63	6,249.85	35.00	38.42	-142.68	325.95	-170.08	1,287.91	1,235.97	51.94	24.798		
6,950.00	6,651.44	6,552.95	6,284.58	35.34	38.64	-130.01	316.27	-174.51	1,317.09	1,264.78	52.31	25.177		
7,000.00	6,695.79	6,578.32	6,308.82	35.67	38.79	-119.26	309.32	-177.23	1,345.36	1,292.80	52.56	25.594		
7,050.00	6,738.87	6,600.47	6,329.94	36.00	38.93	-110.33	302.94	-179.19	1,372.83	1,320.03	52.80	26.000		
7,100.00	6,780.32	6,621.25	6,349.71	36.31	39.05	-102.96	296.68	-180.68	1,399.44	1,346.38	53.05	26.379		
7,150.00	6,819.85	6,654.00	6,380.72	36.61	39.25	-97.27	286.31	-182.34	1,425.21	1,371.69	53.52	26.631		
7,200.00	6,857.14	6,654.00	6,380.72	36.91	39.25	-91.61	286.31	-182.34	1,449.77	1,396.24	53.53	27.081		
7,250.00	6,891.92	6,654.00	6,380.72	37.19	39.25	-86.75	286.31	-182.34	1,473.63	1,420.05	53.58	27.503		
7,300.00	6,923.92	6,654.00	6,380.72	37.46	39.25	-82.55	286.31	-182.34	1,496.65	1,442.98	53.66	27.889		
7,350.00	6,952.90	6,690.23	6,414.75	37.73	39.45	-80.26	273.91	-182.43	1,517.62	1,463.25	54.37	27.912		
7,400.00	6,978.63	6,697.63	6,421.64	37.99	39.49	-77.42	271.24	-182.13	1,538.04	1,483.35	54.69	28.122		
7,450.00	7,000.93	6,703.42	6,427.03	38.25	39.52	-74.96	269.12	-181.83	1,557.27	1,502.22	55.05	28.290		
7,500.00	7,019.61	6,707.74	6,431.03	38.51	39.54	-72.82	267.52	-181.56	1,575.24	1,519.80	55.44	28.412		
7,550.00	7,034.55	6,710.70	6,433.77	38.77	39.56	-70.99	266.41	-181.35	1,591.89	1,536.01	55.88	28.486		
7,600.00	7,045.61	6,712.43	6,435.36	39.04	39.57	-69.43	265.77	-181.22	1,607.15	1,550.78	56.37	28.512		
7,650.00	7,052.73	6,713.04	6,435.93	39.32	39.57	-68.14	265.54	-181.18	1,620.96	1,564.07	56.90	28.489		
7,700.00	7,055.85	6,712.63	6,435.55	39.60	39.57	-67.11	265.69	-181.21	1,633.26	1,575.79	57.47	28.420		
7,713.69	7,056.00	6,712.35	6,435.30	39.68	39.57	-66.87	265.79	-181.23	1,636.36	1,578.73	57.63	28.394		
7,800.00	7,056.00	6,710.50	6,433.58	40.23	39.56	-66.81	266.49	-181.37	1,657.63	1,598.92	58.70	28.237		
7,900.00	7,056.00	6,708.56	6,431.79	41.02	39.55	-66.74	267.21	-181.50	1,687.46	1,627.46	59.99	28.127		
8,000.00	7,056.00	6,706.83	6,430.19	41.97	39.54	-66.68	267.86	-181.62	1,722.58	1,661.28	61.30	28.101		
8,100.00	7,056.00	6,705.26	6,428.74	43.10	39.53	-66.62	268.44	-181.72	1,762.67	1,700.09	62.59	28.164		
8,200.00	7,056.00	6,703.84	6,427.42	44.40	39.52	-66.57	268.96	-181.80	1,807.41	1,743.58	63.83	28.315		
8,300.00	7,056.00	6,702.55	6,426.22	45.85	39.51	-66.52	269.44	-181.88	1,856.46	1,791.44	65.02	28.553		
8,400.00	7,056.00	6,701.37	6,425.12	47.44	39.51	-66.48	269.87	-181.94	1,909.49	1,843.35	66.13	28.874		
8,500.00	7,056.00	6,700.29	6,424.12	49.17	39.50	-66.44	270.27	-182.00	1,966.17	1,899.00	67.17	29.272		
8,600.00	7,056.00	6,699.29	6,423.19	51.00	39.50	-66.41	270.64	-182.05	2,026.20	1,958.07	68.13	29.742		
8,700.00	7,056.00	6,698.36	6,422.33	52.93	39.49	-66.37	270.97	-182.10	2,089.29	2,020.29	69.00	30.278		
8,800.00	7,056.00	6,697.51	6,421.53	54.94	39.49	-66.34	271.29	-182.14	2,155.18	2,085.38	69.80	30.875		
8,900.00	7,056.00	6,696.71	6,420.79	57.02	39.48	-66.31	271.57	-182.18	2,223.61	2,153.08	70.53	31.526		
9,000.00	7,056.00	6,695.97	6,420.10	59.16	39.48	-66.29	271.84	-182.21	2,294.36	2,223.17	71.19	32.227		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 40N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,100.00	7,056.00	6,695.27	6,419.45	61.36	39.47	-66.26	272.10	-182.24	2,367.22	2,295.43	71.79	32.974		
9,200.00	7,056.00	6,694.62	6,418.85	63.60	39.47	-66.24	272.33	-182.27	2,442.00	2,369.67	72.33	33.761		
9,300.00	7,056.00	6,694.02	6,418.28	65.89	39.47	-66.22	272.55	-182.29	2,518.53	2,445.71	72.82	34.586		
9,400.00	7,056.00	6,654.00	6,380.72	68.21	39.25	-64.79	286.31	-182.34	2,598.59	2,525.94	72.65	35.769		
9,500.00	7,056.00	6,654.00	6,380.72	70.56	39.25	-64.79	286.31	-182.34	2,678.11	2,605.05	73.06	36.655		
9,600.00	7,056.00	6,654.00	6,380.72	72.95	39.25	-64.79	286.31	-182.34	2,758.97	2,685.53	73.44	37.568		
9,700.00	7,056.00	6,654.00	6,380.72	75.35	39.25	-64.79	286.31	-182.34	2,841.05	2,767.27	73.78	38.508		
9,800.00	7,056.00	6,654.00	6,380.72	77.78	39.25	-64.79	286.31	-182.34	2,924.24	2,850.16	74.09	39.470		
9,900.00	7,056.00	6,654.00	6,380.72	80.23	39.25	-64.79	286.31	-182.34	3,008.46	2,934.09	74.37	40.454		
10,000.00	7,056.00	6,654.00	6,380.72	82.70	39.25	-64.79	286.31	-182.34	3,093.62	3,019.00	74.62	41.456		
10,100.00	7,056.00	6,654.00	6,380.72	85.19	39.25	-64.79	286.31	-182.34	3,179.64	3,104.79	74.86	42.477		
10,200.00	7,056.00	6,654.00	6,380.72	87.69	39.25	-64.79	286.31	-182.34	3,266.46	3,191.39	75.07	43.513		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	6.00	6.00	0.00	0.00	24.26	1,830.25	824.98	2,007.59					
100.00	100.00	89.53	89.52	0.14	0.26	24.26	1,830.53	825.09	2,007.96	2,007.55	0.41	4,912.314		
200.00	200.00	188.46	188.45	0.50	0.62	24.26	1,831.51	825.45	2,009.00	2,007.88	1.12	1,793.037		
300.00	300.00	393.65	393.58	0.86	1.33	24.22	1,829.08	822.84	2,007.55	2,005.36	2.19	914.615		
400.00	400.00	559.99	559.49	1.22	1.92	24.05	1,822.26	813.24	2,001.39	1,998.25	3.14	637.561		
500.00	500.00	688.50	687.25	1.58	2.41	23.81	1,815.69	801.17	1,992.85	1,988.89	3.96	503.371		
600.00	600.00	815.84	813.31	1.94	2.93	23.43	1,809.55	784.29	1,983.07	1,978.27	4.80	413.130		
700.00	700.00	933.84	929.41	2.29	3.43	22.95	1,804.26	763.95	1,972.02	1,966.40	5.62	350.609		
800.00	800.00	1,035.44	1,029.00	2.65	3.90	22.46	1,800.47	744.15	1,960.91	1,954.50	6.41	305.928		
900.00	900.00	1,166.48	1,156.89	3.01	4.52	21.76	1,794.69	716.20	1,948.54	1,941.20	7.34	265.396		
1,000.00	1,000.00	1,268.27	1,255.84	3.37	5.04	21.16	1,789.97	692.82	1,935.57	1,927.40	8.17	236.874		
1,100.00	1,100.00	1,416.75	1,399.54	3.73	5.83	20.22	1,782.02	656.31	1,921.59	1,912.35	9.24	207.981		
1,200.00	1,200.00	1,522.81	1,501.46	4.09	6.43	19.48	1,775.21	627.78	1,905.98	1,895.84	10.14	187.941		
1,300.00	1,300.00	1,626.04	1,600.42	4.45	7.03	18.71	1,768.93	599.07	1,890.68	1,879.63	11.05	171.116		
1,400.00	1,400.00	1,719.72	1,690.39	4.80	7.58	18.04	1,762.24	573.84	1,875.01	1,863.10	11.91	157.401		
1,500.00	1,500.00	1,811.66	1,779.00	5.16	8.11	17.40	1,756.04	550.15	1,860.35	1,847.58	12.76	145.738		
1,600.00	1,600.00	1,912.58	1,876.22	5.52	8.69	16.68	1,749.17	523.96	1,845.85	1,832.18	13.67	135.021		
1,700.00	1,700.00	2,060.50	2,017.27	5.88	9.62	15.47	1,737.82	480.93	1,829.81	1,814.95	14.86	123.138		
1,800.00	1,800.00	2,190.14	2,138.66	6.24	10.51	14.19	1,726.93	436.78	1,812.10	1,796.07	16.03	113.018		
1,900.00	1,900.00	2,287.54	2,229.54	6.60	11.21	13.20	1,717.93	402.92	1,793.96	1,776.91	17.06	105.180		
2,000.00	2,000.00	2,386.86	2,322.60	6.95	11.91	12.21	1,708.10	369.63	1,776.08	1,758.00	18.08	98.220		
2,100.00	2,100.00	2,495.90	2,424.86	7.31	12.68	11.13	1,696.43	333.62	1,758.08	1,738.92	19.16	91.743		
2,200.00	2,200.00	2,591.13	2,514.32	7.67	13.34	10.19	1,685.43	302.89	1,739.97	1,719.80	20.16	86.289		
2,300.00	2,300.00	2,670.31	2,589.23	8.03	13.88	9.45	1,676.42	278.90	1,722.90	1,701.83	21.07	81.778		
2,400.00	2,399.98	2,752.59	2,667.59	8.39	14.41	8.08	1,667.41	255.49	1,705.33	1,683.36	21.97	77.621		
2,500.00	2,499.84	2,846.00	2,756.43	8.75	15.02	7.30	1,656.60	228.72	1,684.14	1,661.21	22.93	73.441		
2,600.00	2,599.45	2,918.60	2,825.25	9.10	15.50	6.66	1,648.87	206.91	1,660.81	1,637.00	23.81	69.759		
2,700.00	2,698.70	2,984.69	2,887.79	9.46	15.96	6.03	1,643.77	186.21	1,636.82	1,612.15	24.67	66.359		
2,800.00	2,797.47	3,063.79	2,961.92	9.82	16.52	5.16	1,638.89	159.03	1,611.04	1,585.41	25.62	62.870		
2,900.00	2,895.62	3,155.28	3,047.75	10.20	17.17	4.11	1,633.49	127.80	1,582.78	1,556.10	26.68	59.330		
3,000.00	2,993.06	3,248.63	3,135.26	10.58	17.84	2.98	1,627.80	95.82	1,551.61	1,523.87	27.74	55.930		
3,100.00	3,089.64	3,338.41	3,219.46	10.98	18.49	1.85	1,622.26	65.18	1,517.70	1,488.91	28.79	52.719		
3,200.00	3,185.27	3,432.45	3,307.20	11.40	19.19	0.53	1,616.22	31.87	1,480.87	1,450.99	29.88	49.561		
3,300.00	3,279.82	3,519.77	3,388.74	11.85	19.83	-0.79	1,610.45	1.19	1,441.38	1,410.45	30.93	46.600		
3,400.00	3,373.17	3,626.79	3,488.60	12.32	20.63	-2.54	1,602.30	-36.43	1,398.55	1,366.43	32.11	43.553		
3,425.78	3,397.02	3,649.23	3,509.48	12.45	20.80	-2.95	1,600.43	-44.42	1,386.97	1,354.59	32.39	42.826		
3,500.00	3,465.59	3,713.09	3,568.92	12.83	21.28	-4.08	1,595.01	-67.13	1,353.56	1,320.40	33.17	40.811		
3,600.00	3,557.97	3,794.67	3,644.88	13.35	21.90	-5.61	1,588.05	-96.05	1,309.29	1,275.09	34.20	38.287		
3,700.00	3,650.35	3,889.42	3,733.18	13.89	22.61	-7.48	1,579.61	-129.38	1,265.63	1,230.32	35.32	35.836		
3,800.00	3,742.72	3,976.03	3,813.97	14.45	23.26	-9.28	1,571.31	-159.46	1,222.45	1,186.06	36.39	33.593		
3,900.00	3,835.10	4,069.28	3,901.32	15.03	23.94	-11.30	1,562.00	-190.72	1,179.94	1,142.45	37.49	31.473		
4,000.00	3,927.48	4,161.48	3,988.50	15.61	24.57	-13.30	1,552.33	-219.14	1,137.81	1,099.26	38.55	29.516		
4,100.00	4,019.86	4,233.17	4,056.50	16.21	25.06	-14.92	1,544.87	-240.58	1,096.80	1,057.29	39.51	27.758		
4,200.00	4,112.23	4,305.58	4,124.63	16.82	25.57	-16.73	1,538.02	-264.12	1,058.33	1,017.83	40.50	26.134		
4,300.00	4,204.61	4,388.15	4,202.29	17.44	26.17	-18.92	1,530.35	-291.12	1,021.64	980.08	41.55	24.585		
4,400.00	4,296.99	4,466.00	4,275.38	18.06	26.73	-21.12	1,523.49	-317.01	987.22	944.63	42.59	23.182		
4,500.00	4,389.37	4,538.14	4,342.84	18.69	27.26	-23.29	1,517.46	-341.83	955.49	911.90	43.58	21.923		
4,600.00	4,481.74	4,621.82	4,420.94	19.33	27.89	-25.95	1,510.62	-371.12	926.42	881.77	44.65	20.748		
4,700.00	4,574.12	4,704.81	4,498.55	19.98	28.51	-28.68	1,503.83	-399.69	899.64	853.94	45.70	19.686		
4,800.00	4,666.50	4,784.96	4,572.94	20.63	29.13	-31.52	1,496.74	-428.68	875.89	829.19	46.70	18.755		
4,900.00	4,758.88	4,870.62	4,652.26	21.29	29.79	-34.70	1,488.92	-460.06	855.33	807.60	47.72	17.923		
5,000.00	4,851.25	4,967.22	4,742.12	21.95	30.53	-38.36	1,479.53	-494.25	837.15	788.37	48.79	17.159		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft	
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Highside		Distance		Separation		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	4,943.63	5,060.47	4,829.51	22.61	31.22	-41.95	1,470.05	-525.38	821.11	771.36	49.75	16.504			
5,200.00	5,036.01	5,145.27	4,909.27	23.28	31.82	-45.25	1,461.56	-552.89	808.22	757.65	50.57	15.982			
5,300.00	5,128.39	5,236.64	4,995.75	23.95	32.45	-48.79	1,453.01	-581.12	798.34	746.97	51.37	15.540			
5,400.00	5,220.76	5,316.11	5,071.16	24.62	32.99	-51.87	1,446.02	-605.18	791.97	739.99	51.99	15.234			
5,481.20	5,295.77	5,372.09	5,124.17	25.18	33.38	-54.06	1,441.44	-622.58	790.19	737.86	52.34	15.098			
5,500.00	5,313.14	5,384.86	5,136.24	25.30	33.47	-54.56	1,440.47	-626.65	790.29	737.88	52.41	15.080			
5,600.00	5,405.52	5,458.06	5,205.20	25.98	33.99	-57.41	1,435.33	-650.63	793.86	741.07	52.79	15.038			
5,700.00	5,497.90	5,553.28	5,294.73	26.67	34.66	-61.11	1,428.62	-682.36	801.58	748.18	53.40	15.010			
5,800.00	5,590.28	5,652.16	5,388.70	27.35	35.34	-64.82	1,421.28	-712.22	809.98	755.95	54.02	14.993			
5,900.00	5,682.65	5,723.28	5,456.02	28.04	35.83	-67.48	1,415.53	-734.44	822.55	768.29	54.26	15.159			
6,000.00	5,775.03	5,798.00	5,526.25	28.73	36.36	-70.26	1,409.00	-759.09	839.76	785.25	54.52	15.403			
6,100.00	5,867.41	5,869.92	5,593.46	29.42	36.90	-72.92	1,402.12	-783.74	861.19	806.46	54.73	15.734			
6,200.00	5,959.79	5,944.43	5,662.76	30.11	37.47	-75.62	1,394.22	-809.93	886.42	831.43	54.99	16.119			
6,300.00	6,052.16	7,857.93	6,934.93	30.80	44.54	-177.84	1,259.08	0.30	878.94	851.73	27.21	32.300			
6,400.00	6,144.54	7,860.24	6,934.97	31.50	44.57	-178.18	1,259.09	2.60	790.66	762.16	28.49	27.748			
6,500.00	6,236.92	7,862.52	6,935.01	32.20	44.59	-178.51	1,259.09	4.88	705.50	674.94	30.56	23.086			
6,600.00	6,329.30	7,864.77	6,935.05	32.90	44.61	-178.84	1,259.10	7.14	624.75	590.99	33.77	18.502			
6,700.00	6,421.67	7,867.01	6,935.09	33.60	44.63	-179.17	1,259.11	9.38	550.36	511.85	38.51	14.292			
6,800.00	6,514.05	7,869.22	6,935.13	34.30	44.65	-179.49	1,259.12	11.59	485.24	440.21	45.03	10.776			
6,809.17	6,522.52	7,869.42	6,935.13	34.36	44.66	-179.52	1,259.12	11.79	479.87	434.15	45.71	10.497			
6,850.00	6,560.22	7,868.87	6,935.12	34.65	44.65	-172.35	1,259.12	11.23	457.41	408.50	48.90	9.353			
6,900.00	6,606.13	7,864.25	6,935.04	35.00	44.61	-163.17	1,259.10	6.62	433.62	380.61	53.01	8.180			
6,950.00	6,651.44	7,855.37	6,934.88	35.34	44.52	-154.23	1,259.07	-2.26	414.62	357.50	57.12	7.258			
7,000.00	6,695.79	7,842.33	6,934.65	35.67	44.39	-145.81	1,259.01	-15.30	400.96	339.99	60.97	6.577			
7,050.00	6,738.87	7,825.23	6,934.33	36.00	44.23	-137.87	1,258.93	-32.39	392.89	328.63	64.26	6.114			
7,100.00	6,780.32	7,804.26	6,933.92	36.31	44.03	-130.25	1,258.80	-53.37	390.29	323.51	66.79	5.844	CC, ES		
7,100.01	6,780.33	7,804.25	6,933.92	36.31	44.03	-130.25	1,258.80	-53.37	390.29	323.50	66.79	5.844	CC, ES		
7,150.00	6,819.85	7,780.98	6,933.50	36.61	43.82	-123.01	1,258.61	-76.64	392.70	324.17	68.53	5.731	SF		
7,200.00	6,857.14	7,754.58	6,933.25	36.91	43.61	-115.99	1,258.29	-103.04	399.41	329.93	69.48	5.748			
7,250.00	6,891.92	7,724.54	6,933.26	37.19	43.36	-109.17	1,257.77	-133.07	409.44	339.66	69.78	5.868			
7,300.00	6,923.92	7,690.06	6,933.52	37.46	43.09	-102.59	1,256.98	-167.54	421.69	352.10	69.59	6.060			
7,350.00	6,952.90	7,652.61	6,932.32	37.73	42.83	-96.38	1,256.10	-204.95	435.08	365.96	69.12	6.294			
7,400.00	6,978.63	7,615.65	6,929.09	37.99	42.58	-90.78	1,255.26	-241.76	449.01	380.52	68.49	6.556			
7,450.00	7,000.93	7,575.15	6,923.44	38.25	42.33	-85.52	1,254.48	-281.85	462.94	395.22	67.72	6.837			
7,500.00	7,019.61	7,533.07	6,915.76	38.51	42.09	-80.82	1,254.11	-323.22	476.12	409.24	66.89	7.118			
7,550.00	7,034.55	7,493.11	6,906.72	38.77	41.89	-76.85	1,254.14	-362.14	488.23	422.13	66.10	7.386			
7,600.00	7,045.61	7,455.78	6,896.45	39.04	41.72	-73.53	1,254.31	-398.02	499.29	433.92	65.38	7.637			
7,650.00	7,052.73	7,416.00	6,883.51	39.32	41.54	-70.56	1,254.61	-435.63	509.16	444.53	64.63	7.878			
7,700.00	7,055.85	7,382.51	6,871.04	39.60	41.43	-68.30	1,254.94	-466.71	517.66	453.59	64.07	8.079			
7,713.69	7,056.00	7,372.68	6,867.10	39.68	41.40	-67.72	1,255.05	-475.72	519.74	455.82	63.92	8.131			
7,800.00	7,056.00	7,321.00	6,844.38	40.23	41.23	-65.37	1,255.69	-522.12	535.02	471.97	63.05	8.486			
7,900.00	7,056.00	7,243.77	6,805.20	41.02	41.07	-61.49	1,256.99	-588.63	558.58	497.11	61.46	9.088			
8,000.00	7,056.00	7,186.47	6,772.52	41.97	40.99	-58.43	1,258.14	-635.67	589.16	528.93	60.23	9.781			
8,100.00	7,056.00	7,130.00	6,736.83	43.10	40.93	-55.32	1,259.03	-679.40	627.62	568.63	58.99	10.640			
8,200.00	7,056.00	7,092.28	6,711.22	44.40	40.92	-53.22	1,259.38	-707.10	673.37	614.94	58.42	11.525			
8,300.00	7,056.00	7,035.00	6,669.99	45.85	40.91	-50.11	1,259.37	-746.83	726.20	668.87	57.33	12.666			
8,400.00	7,056.00	7,010.08	6,651.25	47.44	40.91	-48.78	1,259.30	-763.27	784.14	726.75	57.39	13.664			
8,500.00	7,056.00	6,968.72	6,619.31	49.17	40.93	-46.62	1,259.49	-789.54	846.95	789.96	56.99	14.861			
8,600.00	7,056.00	6,940.00	6,596.53	51.00	40.93	-45.15	1,259.87	-807.02	913.79	856.78	57.01	16.028			
8,700.00	7,056.00	6,896.21	6,560.74	52.93	40.96	-42.92	1,261.41	-832.20	983.94	927.31	56.63	17.376			
8,800.00	7,056.00	6,865.70	6,535.07	54.94	40.97	-41.37	1,263.45	-848.53	1,057.27	1,000.64	56.63	18.671			
8,900.00	7,056.00	6,844.00	6,516.45	57.02	40.98	-40.26	1,265.38	-859.53	1,133.39	1,076.54	56.85	19.938			

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Reference Depth (usft)	Vertical Reference Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,000.00	7,056.00	6,817.08	6,492.99	59.16	41.00	-38.89	1,268.28	-872.39	1,211.97	1,155.06	56.91	21.296		
9,100.00	7,056.00	6,797.37	6,475.55	61.36	41.01	-37.89	1,270.73	-881.23	1,292.79	1,235.66	57.13	22.630		
9,200.00	7,056.00	6,779.70	6,459.73	63.60	41.01	-37.01	1,273.16	-888.75	1,375.53	1,318.17	57.36	23.980		
9,300.00	7,056.00	6,749.00	6,431.92	65.89	41.03	-35.48	1,277.89	-900.84	1,460.16	1,402.83	57.34	25.467		
9,400.00	7,056.00	6,749.00	6,431.92	68.21	41.03	-35.48	1,277.89	-900.84	1,545.88	1,488.03	57.84	26.725		
9,500.00	7,056.00	6,749.00	6,431.92	70.56	41.03	-35.48	1,277.89	-900.84	1,633.21	1,574.93	58.28	28.022		
9,600.00	7,056.00	6,749.00	6,431.92	72.95	41.03	-35.48	1,277.89	-900.84	1,721.93	1,663.27	58.67	29.352		
9,700.00	7,056.00	6,749.00	6,431.92	75.35	41.03	-35.48	1,277.89	-900.84	1,811.82	1,752.82	59.00	30.709		
9,800.00	7,056.00	6,710.34	6,396.24	77.78	41.03	-33.61	1,284.40	-914.20	1,901.22	1,842.41	58.81	32.326		
9,900.00	7,056.00	6,702.43	6,388.84	80.23	41.03	-33.24	1,285.76	-916.66	1,992.33	1,933.31	59.02	33.757		
10,000.00	7,056.00	6,695.09	6,381.96	82.70	41.03	-32.89	1,287.04	-918.85	2,084.15	2,024.94	59.21	35.198		
10,100.00	7,056.00	6,654.00	6,343.00	85.19	41.02	-31.02	1,294.36	-929.64	2,177.75	2,118.70	59.04	36.884		
10,200.00	7,056.00	6,654.00	6,343.00	87.69	41.02	-31.02	1,294.36	-929.64	2,270.35	2,211.06	59.30	38.287		
10,300.00	7,056.00	6,654.00	6,343.00	90.20	41.02	-31.02	1,294.36	-929.64	2,363.57	2,304.04	59.53	39.705		
10,400.00	7,056.00	6,654.00	6,343.00	92.73	41.02	-31.02	1,294.36	-929.64	2,457.31	2,397.57	59.74	41.134		
10,500.00	7,056.00	6,654.00	6,343.00	95.27	41.02	-31.02	1,294.36	-929.64	2,551.53	2,491.60	59.93	42.574		
10,600.00	7,056.00	6,654.00	6,343.00	97.81	41.02	-31.02	1,294.36	-929.64	2,646.17	2,586.06	60.11	44.024		
10,700.00	7,056.00	6,654.00	6,343.00	100.37	41.02	-31.02	1,294.36	-929.64	2,741.20	2,680.92	60.27	45.481		
10,800.00	7,056.00	6,654.00	6,343.00	102.94	41.02	-31.02	1,294.36	-929.64	2,836.56	2,776.14	60.42	46.946		
10,900.00	7,056.00	6,654.00	6,343.00	105.51	41.02	-31.02	1,294.36	-929.64	2,932.24	2,871.67	60.56	48.416		
11,000.00	7,056.00	6,654.00	6,343.00	108.09	41.02	-31.02	1,294.36	-929.64	3,028.19	2,967.50	60.70	49.892		
11,100.00	7,056.00	6,654.00	6,343.00	110.68	41.02	-31.02	1,294.36	-929.64	3,124.40	3,063.58	60.82	51.372		
11,200.00	7,056.00	6,654.00	6,343.00	113.28	41.02	-31.02	1,294.36	-929.64	3,220.84	3,159.90	60.94	52.857		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 8C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	6.00	6.00	0.00	0.00	24.60	1,801.47	824.70	1,981.27					
100.00	100.00	99.26	99.26	0.14	0.30	24.59	1,801.70	824.55	1,981.42	1,980.98	0.44	4,481.395		
200.00	200.00	215.93	215.93	0.50	0.71	24.56	1,802.18	823.71	1,981.53	1,980.31	1.22	1,629.629		
300.00	300.00	424.97	424.74	0.86	1.46	24.41	1,798.08	815.91	1,978.11	1,975.78	2.33	849.649		
400.00	400.00	521.79	521.26	1.22	1.82	24.27	1,794.71	809.08	1,972.03	1,969.00	3.03	650.052		
500.00	500.00	669.24	667.99	1.58	2.40	23.95	1,790.23	795.29	1,965.61	1,961.67	3.94	498.698		
600.00	600.00	943.11	938.29	1.94	3.57	23.18	1,768.87	757.43	1,952.69	1,947.33	5.36	364.391		
700.00	700.00	1,153.94	1,143.15	2.29	4.61	22.38	1,740.36	716.78	1,932.28	1,925.73	6.55	294.855		
800.00	800.00	1,314.76	1,297.83	2.65	5.49	21.75	1,712.24	682.96	1,907.90	1,900.33	7.57	252.155		
900.00	900.00	1,410.97	1,389.97	3.01	6.04	21.35	1,694.11	662.05	1,882.16	1,873.83	8.33	225.942		
1,000.00	1,000.00	1,504.31	1,479.35	3.37	6.58	20.95	1,676.50	641.73	1,856.48	1,847.39	9.09	204.202		
1,100.00	1,100.00	1,588.04	1,559.64	3.73	7.07	20.58	1,661.09	623.62	1,831.36	1,821.54	9.82	186.461		
1,200.00	1,200.00	1,680.26	1,648.12	4.09	7.61	20.15	1,644.65	603.51	1,806.81	1,796.22	10.59	170.563		
1,300.00	1,300.00	1,804.35	1,766.82	4.45	8.36	19.53	1,621.97	575.32	1,781.61	1,770.11	11.50	154.919		
1,400.00	1,400.00	1,895.00	1,853.27	4.80	8.92	19.04	1,605.12	553.89	1,755.92	1,743.63	12.29	142.875		
1,500.00	1,500.00	2,077.77	2,025.75	5.16	10.13	17.86	1,569.05	505.52	1,728.47	1,714.99	13.48	128.250		
1,600.00	1,600.00	2,250.50	2,184.18	5.52	11.44	16.36	1,529.93	449.03	1,696.06	1,681.34	14.71	115.276		
1,700.00	1,700.00	2,349.33	2,273.31	5.88	12.25	15.35	1,506.15	413.55	1,661.73	1,646.05	15.68	105.997		
1,800.00	1,800.00	2,447.27	2,361.70	6.24	13.06	14.34	1,482.20	378.83	1,627.64	1,610.99	16.66	97.725		
1,900.00	1,900.00	2,545.86	2,450.60	6.60	13.87	13.29	1,457.44	344.13	1,593.47	1,575.82	17.65	90.273		
2,000.00	2,000.00	2,630.59	2,527.18	6.95	14.57	12.38	1,435.80	315.06	1,559.62	1,541.03	18.60	83.872		
2,100.00	2,100.00	2,715.05	2,603.97	7.31	15.26	11.48	1,414.24	287.26	1,526.62	1,507.08	19.54	78.140		
2,200.00	2,200.00	2,800.84	2,682.34	7.67	15.94	10.58	1,392.34	260.09	1,494.37	1,473.88	20.49	72.928		
2,300.00	2,300.00	2,908.65	2,780.99	8.03	16.81	9.43	1,364.58	226.61	1,462.55	1,441.00	21.55	67.878		
2,400.00	2,399.98	3,000.40	2,864.20	8.39	17.56	7.77	1,340.23	196.61	1,428.34	1,405.77	22.56	63.310		
2,500.00	2,499.84	3,079.06	2,935.98	8.75	18.19	6.94	1,319.62	171.88	1,391.96	1,368.43	23.53	59.152		
2,600.00	2,599.45	3,157.38	3,007.90	9.10	18.82	6.13	1,299.45	148.37	1,353.50	1,329.00	24.50	55.256		
2,700.00	2,698.70	3,234.80	3,079.48	9.46	19.41	5.33	1,279.92	126.24	1,312.98	1,287.54	25.44	51.617		
2,800.00	2,797.47	3,312.30	3,151.62	9.82	19.98	4.53	1,260.75	105.40	1,270.38	1,244.02	26.36	48.193		
2,900.00	2,895.62	3,394.29	3,228.38	10.20	20.56	3.68	1,240.80	84.60	1,225.54	1,198.26	27.28	44.929		
3,000.00	2,993.06	3,476.22	3,305.31	10.58	21.13	2.78	1,221.04	64.50	1,178.22	1,150.03	28.19	41.792		
3,100.00	3,089.64	3,558.67	3,382.89	10.98	21.71	1.79	1,201.34	44.72	1,128.40	1,099.29	29.11	38.762		
3,200.00	3,185.27	3,650.22	3,468.70	11.40	22.37	0.47	1,179.49	21.51	1,075.86	1,045.78	30.08	35.766		
3,300.00	3,279.82	3,737.00	3,548.95	11.85	23.03	-1.19	1,157.91	-3.47	1,019.70	988.60	31.10	32.783		
3,400.00	3,373.17	3,805.39	3,611.72	12.32	23.57	-2.84	1,141.35	-24.98	961.70	929.57	32.14	29.926		
3,425.78	3,397.02	3,825.95	3,630.54	12.45	23.73	-3.40	1,136.45	-31.64	946.49	914.06	32.42	29.191		
3,500.00	3,465.59	3,884.71	3,684.29	12.83	24.21	-5.04	1,122.32	-50.73	902.61	869.35	33.26	27.139		
3,600.00	3,557.97	3,962.13	3,755.03	13.35	24.84	-7.44	1,103.46	-75.92	844.14	809.72	34.43	24.519		
3,700.00	3,650.35	4,032.94	3,819.77	13.89	25.41	-9.90	1,086.21	-98.85	786.90	751.26	35.64	22.081		
3,800.00	3,742.72	4,102.28	3,883.51	14.45	25.96	-12.52	1,069.95	-120.77	731.79	694.89	36.90	19.833		
3,900.00	3,835.10	4,176.96	3,952.78	15.03	26.53	-15.55	1,053.00	-142.95	678.82	640.60	38.21	17.764		
4,000.00	3,927.48	4,246.92	4,018.04	15.61	27.05	-18.65	1,037.72	-162.98	628.36	588.79	39.57	15.881		
4,100.00	4,019.86	4,321.76	4,087.75	16.21	27.61	-22.44	1,021.96	-185.17	581.18	540.15	41.03	14.164		
4,200.00	4,112.23	4,396.95	4,157.11	16.82	28.20	-26.89	1,005.71	-209.19	537.47	494.86	42.61	12.615		
4,300.00	4,204.61	4,469.48	4,223.75	17.44	28.77	-31.75	990.18	-233.27	498.76	454.54	44.21	11.281		
4,400.00	4,296.99	4,547.34	4,295.39	18.06	29.39	-37.46	973.83	-259.00	465.96	420.16	45.80	10.175		
4,500.00	4,389.37	4,625.31	4,367.32	18.69	30.00	-43.62	957.54	-284.32	439.83	392.62	47.21	9.317		
4,600.00	4,481.74	4,704.17	4,439.89	19.33	30.63	-50.31	940.59	-310.08	421.64	373.31	48.33	8.725		
4,700.00	4,574.12	4,782.07	4,511.35	19.98	31.25	-57.28	922.95	-335.63	412.40	363.43	48.97	8.421		
4,743.06	4,613.90	4,815.24	4,541.79	20.26	31.52	-60.28	915.43	-346.43	411.47	362.38	49.08	8.383 CC, ES, SF		
4,800.00	4,666.50	4,859.32	4,582.31	20.63	31.87	-64.26	905.51	-360.69	413.08	364.00	49.08	8.417		
4,900.00	4,758.88	4,936.87	4,653.64	21.29	32.49	-71.13	888.01	-385.57	423.56	374.84	48.72	8.693		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 8C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.00	4,851.25	5,018.14	4,728.58	21.95	33.13	-78.02	869.67	-411.11	442.83	394.68	48.15	9.197		
5,100.00	4,943.63	5,093.99	4,798.70	22.61	33.72	-84.02	852.59	-434.45	469.69	422.30	47.39	9.911		
5,200.00	5,036.01	5,172.72	4,871.38	23.28	34.33	-89.76	834.73	-458.87	503.60	456.83	46.76	10.769		
5,300.00	5,128.39	5,252.37	4,945.25	23.95	34.95	-94.98	817.03	-482.83	542.20	495.86	46.35	11.699		
5,400.00	5,220.76	5,323.00	5,010.59	24.62	35.49	-99.12	801.46	-504.68	585.83	539.86	45.97	12.744		
5,500.00	5,313.14	5,413.24	5,094.24	25.30	36.18	-103.80	781.87	-532.24	632.55	586.36	46.19	13.694		
5,600.00	5,405.52	5,521.30	5,195.71	25.98	36.96	-108.68	759.36	-561.83	679.33	632.48	46.85	14.501		
5,700.00	5,497.90	5,600.60	5,270.69	26.67	37.50	-111.82	743.44	-582.12	726.71	679.56	47.15	15.414		
5,800.00	5,590.28	5,718.90	5,383.45	27.35	38.26	-115.98	720.54	-609.58	774.00	725.92	48.08	16.097		
5,900.00	5,682.65	5,787.44	5,449.03	28.04	38.68	-118.17	707.21	-624.37	821.66	773.23	48.43	16.966		
6,000.00	5,775.03	5,895.19	5,552.40	28.73	39.33	-121.35	685.80	-645.90	869.96	820.65	49.32	17.640		
6,100.00	5,867.41	6,009.22	5,662.89	29.42	39.95	-124.30	665.77	-665.67	916.43	866.16	50.27	18.229		
6,200.00	5,959.79	6,113.15	5,764.29	30.11	40.48	-126.51	651.47	-683.45	961.61	910.46	51.15	18.799		
6,300.00	6,052.16	6,234.83	5,883.59	30.80	41.06	-128.84	636.49	-702.05	1,005.70	953.53	52.17	19.276		
6,400.00	6,144.54	6,409.87	6,056.99	31.50	41.73	-131.71	623.69	-721.74	1,044.70	991.32	53.38	19.570		
6,500.00	6,236.92	6,564.57	6,211.36	32.20	42.17	-133.97	620.33	-731.00	1,077.45	1,023.17	54.28	19.848		
6,600.00	6,329.30	6,685.04	6,331.80	32.90	42.42	-135.73	619.51	-732.70	1,106.94	1,051.89	55.05	20.107		
6,700.00	6,421.67	6,798.21	6,444.96	33.60	42.62	-137.34	619.52	-731.99	1,135.35	1,079.56	55.79	20.349		
6,800.00	6,514.05	7,463.19	7,041.67	34.30	42.64	-154.51	620.98	-482.21	1,146.02	1,094.63	51.39	22.301		
6,809.17	6,522.52	7,475.45	7,050.35	34.36	42.63	-154.97	621.24	-473.56	1,144.91	1,093.42	51.49	22.234		
6,850.00	6,560.22	7,549.67	7,100.40	34.65	42.61	-148.68	622.19	-418.81	1,139.44	1,087.54	51.90	22.955		
6,900.00	6,606.13	7,660.35	7,162.62	35.00	42.64	-143.39	620.55	-327.46	1,130.86	1,078.03	52.84	21.403		
6,950.00	6,651.44	7,708.99	7,184.70	35.34	42.66	-136.98	618.86	-284.16	1,122.00	1,067.72	54.28	20.669		
7,000.00	6,695.79	7,678.06	7,169.85	35.67	42.65	-128.17	619.80	-311.23	1,113.88	1,058.28	55.60	20.033		
7,050.00	6,738.87	7,683.21	7,172.41	36.00	42.65	-122.65	619.66	-306.77	1,107.34	1,050.42	56.92	19.453		
7,100.00	6,780.32	7,714.14	7,186.84	36.31	42.66	-119.69	618.65	-279.48	1,102.12	1,043.82	58.30	18.903		
7,150.00	6,819.85	7,700.23	7,180.97	36.61	42.66	-115.31	619.21	-292.08	1,098.17	1,038.71	59.46	18.469		
7,200.00	6,857.14	7,683.22	7,173.42	36.91	42.65	-111.47	619.82	-307.32	1,095.49	1,034.96	60.53	18.099		
7,250.00	6,891.92	7,664.12	7,164.45	37.19	42.64	-108.07	620.44	-324.17	1,093.97	1,032.46	61.51	17.786		
7,299.92	6,923.87	7,643.60	7,154.26	37.46	42.63	-105.02	621.00	-341.96	1,093.50	1,031.08	62.41	17.521		
7,300.00	6,923.92	7,643.57	7,154.24	37.46	42.63	-105.01	621.00	-341.99	1,093.50	1,031.08	62.41	17.520		
7,350.00	6,952.90	7,621.99	7,142.90	37.73	42.62	-102.24	621.49	-360.34	1,093.93	1,030.68	63.25	17.296		
7,400.00	6,978.63	7,600.23	7,130.83	37.99	42.61	-99.75	621.87	-378.45	1,095.13	1,031.10	64.03	17.104		
7,450.00	7,000.93	7,579.28	7,118.63	38.25	42.61	-97.53	622.11	-395.47	1,096.98	1,032.19	64.79	16.932		
7,500.00	7,019.61	7,557.78	7,105.51	38.51	42.61	-95.49	622.20	-412.50	1,099.35	1,033.84	65.51	16.782		
7,550.00	7,034.55	7,535.85	7,091.52	38.77	42.62	-93.64	622.13	-429.39	1,102.09	1,035.89	66.19	16.650		
7,600.00	7,045.61	7,511.00	7,074.97	39.04	42.62	-91.87	621.87	-447.92	1,105.06	1,038.23	66.84	16.534		
7,650.00	7,052.73	7,487.68	7,058.91	39.32	42.63	-90.36	621.48	-464.83	1,108.08	1,040.59	67.49	16.419		
7,700.00	7,055.85	7,460.33	7,039.63	39.60	42.64	-88.92	620.91	-484.22	1,110.92	1,042.82	68.10	16.313		
7,713.69	7,056.00	7,452.67	7,034.15	39.68	42.64	-88.56	620.74	-489.57	1,111.65	1,043.38	68.27	16.284		
7,800.00	7,056.00	7,404.47	6,998.82	40.23	42.66	-86.74	619.40	-522.31	1,118.18	1,048.90	69.28	16.140		
7,900.00	7,056.00	7,347.91	6,955.38	41.02	42.70	-84.52	617.81	-558.49	1,130.84	1,060.45	70.39	16.065		
8,000.00	7,056.00	7,296.78	6,914.24	41.97	42.73	-82.44	616.56	-588.81	1,149.22	1,077.80	71.42	16.092		
8,100.00	7,056.00	7,252.35	6,876.82	43.10	42.76	-80.56	615.93	-612.73	1,173.50	1,101.16	72.35	16.220		
8,200.00	7,056.00	7,214.72	6,843.98	44.40	42.79	-78.92	615.77	-631.10	1,203.89	1,130.72	73.18	16.452		
8,300.00	7,056.00	7,179.42	6,812.59	45.85	42.80	-77.37	615.79	-647.26	1,240.23	1,166.36	73.86	16.790		
8,400.00	7,056.00	7,147.67	6,783.98	47.44	42.82	-75.98	615.91	-661.04	1,282.18	1,207.74	74.43	17.226		
8,500.00	7,056.00	7,130.00	6,767.92	49.17	42.83	-75.20	616.02	-668.39	1,329.44	1,254.43	75.01	17.723		
8,600.00	7,056.00	7,102.42	6,742.57	51.00	42.83	-73.98	616.22	-679.24	1,381.61	1,306.27	75.34	18.338		
8,700.00	7,056.00	7,085.29	6,726.63	52.93	42.84	-73.22	616.35	-685.51	1,438.41	1,362.74	75.67	19.010		
8,800.00	7,056.00	7,069.98	6,712.27	54.94	42.84	-72.55	616.47	-690.81	1,499.35	1,423.44	75.91	19.752		
8,900.00	7,056.00	7,035.00	6,679.07	57.02	42.84	-71.00	616.76	-701.83	1,564.36	1,488.51	75.85	20.624		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 8C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,000.00	7,056.00	7,035.00	6,679.07	59.16	42.84	-71.00	616.76	-701.83	1,632.03	1,555.94	76.10	21.447		
9,100.00	7,056.00	7,035.00	6,679.07	61.36	42.84	-71.00	616.76	-701.83	1,702.89	1,626.63	76.27	22.328		
9,200.00	7,056.00	7,035.00	6,679.07	63.60	42.84	-71.00	616.76	-701.83	1,776.56	1,700.19	76.37	23.262		
9,300.00	7,056.00	7,035.00	6,679.07	65.89	42.84	-71.00	616.76	-701.83	1,852.69	1,776.27	76.43	24.241		
9,400.00	7,056.00	7,035.00	6,679.07	68.21	42.84	-71.00	616.76	-701.83	1,931.01	1,854.56	76.45	25.260		
9,500.00	7,056.00	7,035.00	6,679.07	70.56	42.84	-71.00	616.76	-701.83	2,011.25	1,934.81	76.43	26.315		
9,600.00	7,056.00	6,997.70	6,643.07	72.95	42.83	-69.35	617.13	-711.55	2,091.82	2,015.70	76.12	27.481		
9,700.00	7,056.00	6,992.37	6,637.88	75.35	42.82	-69.11	617.20	-712.74	2,174.85	2,098.81	76.04	28.601		
9,800.00	7,056.00	6,987.47	6,633.09	77.78	42.82	-68.90	617.26	-713.79	2,259.20	2,183.25	75.96	29.744		
9,900.00	7,056.00	6,982.94	6,628.65	80.23	42.82	-68.70	617.32	-714.72	2,344.74	2,268.88	75.86	30.907		
10,000.00	7,056.00	6,978.74	6,624.54	82.70	42.82	-68.51	617.37	-715.56	2,431.35	2,355.58	75.77	32.089		
10,100.00	7,056.00	6,940.00	6,586.31	85.19	42.80	-66.81	617.96	-721.77	2,520.12	2,444.68	75.44	33.406		
10,200.00	7,056.00	6,940.00	6,586.31	87.69	42.80	-66.81	617.96	-721.77	2,608.32	2,532.95	75.38	34.604		
10,300.00	7,056.00	6,940.00	6,586.31	90.20	42.80	-66.81	617.96	-721.77	2,697.35	2,622.04	75.31	35.816		
10,400.00	7,056.00	6,940.00	6,586.31	92.73	42.80	-66.81	617.96	-721.77	2,787.11	2,711.87	75.24	37.042		
10,500.00	7,056.00	6,940.00	6,586.31	95.27	42.80	-66.81	617.96	-721.77	2,877.56	2,802.39	75.17	38.279		
10,600.00	7,056.00	6,940.00	6,586.31	97.81	42.80	-66.81	617.96	-721.77	2,968.61	2,893.51	75.10	39.528		
10,700.00	7,056.00	6,940.00	6,586.31	100.37	42.80	-66.81	617.96	-721.77	3,060.23	2,985.20	75.03	40.785		
10,800.00	7,056.00	6,940.00	6,586.31	102.94	42.80	-66.81	617.96	-721.77	3,152.35	3,077.39	74.96	42.051		
10,900.00	7,056.00	6,940.00	6,586.31	105.51	42.80	-66.81	617.96	-721.77	3,244.94	3,170.05	74.90	43.325		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETRACK													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,200.00	4,112.23	13,628.00	7,212.49	16.82	176.18	179.41	-375.46	16.36	3,260.18	3,181.26	78.93	41.306		
4,300.00	4,204.61	13,628.00	7,212.49	17.44	176.18	179.41	-375.46	16.36	3,182.38	3,100.91	81.46	39.065		
4,400.00	4,296.99	13,628.00	7,212.49	18.06	176.18	179.41	-375.46	16.36	3,105.84	3,021.65	84.19	36.891		
4,500.00	4,389.37	13,628.00	7,212.49	18.69	176.18	179.41	-375.46	16.36	3,030.67	2,943.56	87.12	34.789		
4,600.00	4,481.74	13,628.00	7,212.49	19.33	176.18	179.41	-375.46	16.36	2,956.98	2,866.73	90.25	32.766		
4,700.00	4,574.12	13,628.00	7,212.49	19.98	176.18	179.41	-375.46	16.36	2,884.86	2,791.28	93.58	30.826		
4,800.00	4,666.50	13,628.00	7,212.49	20.63	176.18	179.41	-375.46	16.36	2,814.46	2,717.32	97.13	28.975		
4,900.00	4,758.88	13,628.00	7,212.49	21.29	176.18	179.41	-375.46	16.36	2,745.89	2,644.99	100.90	27.215		
5,000.00	4,851.25	13,628.00	7,212.49	21.95	176.18	179.41	-375.46	16.36	2,679.29	2,574.42	104.87	25.548		
5,100.00	4,943.63	13,628.00	7,212.49	22.61	176.18	179.41	-375.46	16.36	2,614.83	2,505.77	109.06	23.976		
5,200.00	5,036.01	13,628.00	7,212.49	23.28	176.18	179.41	-375.46	16.36	2,552.66	2,439.21	113.45	22.500		
5,300.00	5,128.39	13,628.00	7,212.49	23.95	176.18	179.41	-375.46	16.36	2,492.95	2,374.91	118.04	21.119		
5,400.00	5,220.76	13,628.00	7,212.49	24.62	176.18	179.41	-375.46	16.36	2,435.88	2,313.07	122.81	19.834		
5,500.00	5,313.14	13,628.00	7,212.49	25.30	176.18	179.41	-375.46	16.36	2,381.65	2,253.90	127.75	18.643		
5,600.00	5,405.52	13,628.00	7,212.49	25.98	176.18	179.41	-375.46	16.36	2,330.45	2,197.61	132.84	17.544		
5,700.00	5,497.90	13,628.00	7,212.49	26.67	176.18	179.41	-375.46	16.36	2,282.48	2,144.44	138.04	16.535		
5,800.00	5,590.28	13,628.00	7,212.49	27.35	176.18	179.41	-375.46	16.36	2,237.95	2,094.62	143.33	15.614		
5,900.00	5,682.65	13,628.00	7,212.49	28.04	176.18	179.41	-375.46	16.36	2,197.08	2,048.41	148.67	14.778		
6,000.00	5,775.03	13,628.00	7,212.49	28.73	176.18	179.41	-375.46	16.36	2,160.07	2,006.05	154.02	14.025		
6,100.00	5,867.41	13,628.00	7,212.49	29.42	176.18	179.41	-375.46	16.36	2,127.12	1,967.79	159.32	13.351		
6,200.00	5,959.79	13,628.00	7,212.49	30.11	176.18	179.41	-375.46	16.36	2,098.42	1,933.88	164.54	12.753		
6,300.00	6,052.16	13,628.00	7,212.49	30.80	176.18	179.41	-375.46	16.36	2,074.15	1,904.54	169.61	12.229		
6,400.00	6,144.54	13,628.00	7,212.49	31.50	176.18	179.41	-375.46	16.36	2,054.46	1,879.98	174.48	11.775		
6,500.00	6,236.92	13,628.00	7,212.49	32.20	176.18	179.41	-375.46	16.36	2,039.49	1,860.40	179.09	11.388		
6,600.00	6,329.30	13,628.00	7,212.49	32.90	176.18	179.41	-375.46	16.36	2,029.35	1,845.94	183.41	11.065		
6,700.00	6,421.67	13,628.00	7,212.49	33.60	176.18	179.41	-375.46	16.36	2,024.10	1,836.73	187.37	10.803		
6,756.36	6,473.74	13,628.00	7,212.49	33.99	176.18	179.41	-375.46	16.36	2,023.32	1,833.88	189.44	10.680	CC	
6,800.00	6,514.05	13,628.00	7,212.49	34.30	176.18	179.41	-375.46	16.36	2,023.79	1,832.83	190.95	10.598		
6,809.17	6,522.52	13,628.00	7,212.49	34.36	176.18	179.41	-375.46	16.36	2,024.01	1,832.74	191.26	10.582	ES	
6,850.00	6,560.22	13,628.00	7,212.49	34.65	176.18	-170.67	-375.46	16.36	2,025.47	1,832.88	192.59	10.517		
6,900.00	6,606.13	13,628.00	7,212.49	35.00	176.18	-159.16	-375.46	16.36	2,028.33	1,834.25	194.09	10.451		
6,950.00	6,651.44	13,628.00	7,212.49	35.34	176.18	-149.04	-375.46	16.36	2,032.35	1,836.90	195.45	10.398		
7,000.00	6,695.79	13,628.00	7,212.49	35.67	176.18	-140.52	-375.46	16.36	2,037.49	1,840.83	196.66	10.361		
7,050.00	6,738.87	13,628.00	7,212.49	36.00	176.18	-133.48	-375.46	16.36	2,043.69	1,845.99	197.71	10.337		
7,100.00	6,780.32	13,628.00	7,212.49	36.31	176.18	-127.65	-375.46	16.36	2,050.91	1,852.32	198.59	10.327	SF	
7,150.00	6,819.85	13,628.00	7,212.49	36.61	176.18	-122.77	-375.46	16.36	2,059.08	1,859.77	199.31	10.331		
7,200.00	6,857.14	13,628.00	7,212.49	36.91	176.18	-118.63	-375.46	16.36	2,068.12	1,868.26	199.87	10.347		
7,250.00	6,891.92	13,628.00	7,212.49	37.19	176.18	-115.04	-375.46	16.36	2,077.96	1,877.70	200.26	10.376		
7,300.00	6,923.92	13,628.00	7,212.49	37.46	176.18	-111.89	-375.46	16.36	2,088.51	1,888.02	200.49	10.417		
7,350.00	6,952.90	13,628.00	7,212.49	37.73	176.18	-109.08	-375.46	16.36	2,099.68	1,899.11	200.57	10.469		
7,400.00	6,978.63	13,628.00	7,212.49	37.99	176.18	-106.55	-375.46	16.36	2,111.37	1,910.87	200.50	10.530		
7,450.00	7,000.93	13,628.00	7,212.49	38.25	176.18	-104.25	-375.46	16.36	2,123.49	1,923.19	200.30	10.602		
7,500.00	7,019.61	13,628.00	7,212.49	38.51	176.18	-102.15	-375.46	16.36	2,135.94	1,935.97	199.97	10.681		
7,550.00	7,034.55	13,628.00	7,212.49	38.77	176.18	-100.24	-375.46	16.36	2,148.63	1,949.10	199.53	10.769		
7,600.00	7,045.61	13,628.00	7,212.49	39.04	176.18	-98.51	-375.46	16.36	2,161.44	1,962.46	198.97	10.863		
7,650.00	7,052.73	13,628.00	7,212.49	39.32	176.18	-96.95	-375.46	16.36	2,174.28	1,975.96	198.32	10.964		
7,700.00	7,055.85	13,628.00	7,212.49	39.60	176.18	-95.56	-375.46	16.36	2,187.06	1,989.49	197.56	11.070		
7,713.69	7,056.00	13,628.00	7,212.49	39.68	176.18	-95.21	-375.46	16.36	2,190.53	1,993.19	197.34	11.100		
7,800.00	7,056.00	13,628.00	7,212.49	40.23	176.18	-95.21	-375.46	16.36	2,213.97	2,018.11	195.86	11.304		
7,900.00	7,056.00	13,628.00	7,212.49	41.02	176.18	-95.21	-375.46	16.36	2,244.97	2,050.98	193.99	11.573		
8,000.00	7,056.00	13,628.00	7,212.49	41.97	176.18	-95.21	-375.46	16.36	2,279.94	2,087.97	191.97	11.877		
8,100.00	7,056.00	13,628.00	7,212.49	43.10	176.18	-95.21	-375.46	16.36	2,318.69	2,128.88	189.81	12.216		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETRACK													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
8,200.00	7,056.00	13,628.00	7,212.49	44.40	176.18	-95.21	-375.46	16.36	2,361.05	2,173.51	187.55	12.589		
8,300.00	7,056.00	13,628.00	7,212.49	45.85	176.18	-95.21	-375.46	16.36	2,406.82	2,221.64	185.19	12.997		
8,400.00	7,056.00	13,628.00	7,212.49	47.44	176.18	-95.21	-375.46	16.36	2,455.82	2,273.06	182.76	13.438		
8,500.00	7,056.00	13,628.00	7,212.49	49.17	176.18	-95.21	-375.46	16.36	2,507.84	2,327.57	180.27	13.911		
8,600.00	7,056.00	13,628.00	7,212.49	51.00	176.18	-95.21	-375.46	16.36	2,562.71	2,384.96	177.75	14.418		
8,700.00	7,056.00	13,628.00	7,212.49	52.93	176.18	-95.21	-375.46	16.36	2,620.25	2,445.05	175.21	14.955		
8,800.00	7,056.00	13,628.00	7,212.49	54.94	176.18	-95.21	-375.46	16.36	2,680.29	2,507.63	172.66	15.524		
8,900.00	7,056.00	13,628.00	7,212.49	57.02	176.18	-95.21	-375.46	16.36	2,742.66	2,572.54	170.12	16.122		
9,000.00	7,056.00	13,628.00	7,212.49	59.16	176.18	-95.21	-375.46	16.36	2,807.21	2,639.61	167.60	16.750		
9,100.00	7,056.00	13,628.00	7,212.49	61.36	176.18	-95.21	-375.46	16.36	2,873.79	2,708.68	165.11	17.406		
9,200.00	7,056.00	13,628.00	7,212.49	63.60	176.18	-95.21	-375.46	16.36	2,942.26	2,779.60	162.65	18.089		
9,300.00	7,056.00	13,628.00	7,212.49	65.89	176.18	-95.21	-375.46	16.36	3,012.49	2,852.25	160.24	18.800		
9,400.00	7,056.00	13,628.00	7,212.49	68.21	176.18	-95.21	-375.46	16.36	3,084.37	2,926.49	157.88	19.536		
9,500.00	7,056.00	13,628.00	7,212.49	70.56	176.18	-95.21	-375.46	16.36	3,157.78	3,002.20	155.58	20.297		
9,600.00	7,056.00	13,628.00	7,212.49	72.95	176.18	-95.21	-375.46	16.36	3,232.61	3,079.29	153.33	21.083		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,200.00	4,112.23	13,558.00	7,081.26	16.82	175.40	179.36	-742.15	17.01	3,257.34	3,164.33	93.01	35.022		
4,300.00	4,204.61	13,558.00	7,081.26	17.44	175.40	179.36	-742.15	17.01	3,187.68	3,091.50	96.18	33.142		
4,400.00	4,296.99	13,558.00	7,081.26	18.06	175.40	179.36	-742.15	17.01	3,119.67	3,020.15	99.52	31.348		
4,500.00	4,389.37	13,558.00	7,081.26	18.69	175.40	179.36	-742.15	17.01	3,053.43	2,950.40	103.02	29.639		
4,600.00	4,481.74	13,558.00	7,081.26	19.33	175.40	179.36	-742.15	17.01	2,989.06	2,882.37	106.69	28.017		
4,700.00	4,574.12	13,558.00	7,081.26	19.98	175.40	179.36	-742.15	17.01	2,926.69	2,816.18	110.51	26.483		
4,800.00	4,666.50	13,558.00	7,081.26	20.63	175.40	179.36	-742.15	17.01	2,866.46	2,751.97	114.49	25.036		
4,900.00	4,758.88	13,558.00	7,081.26	21.29	175.40	179.36	-742.15	17.01	2,808.49	2,689.88	118.62	23.677		
5,000.00	4,851.25	13,558.00	7,081.26	21.95	175.40	179.36	-742.15	17.01	2,752.94	2,630.06	122.88	22.404		
5,100.00	4,943.63	13,558.00	7,081.26	22.61	175.40	179.36	-742.15	17.01	2,699.95	2,572.69	127.26	21.216		
5,200.00	5,036.01	13,558.00	7,081.26	23.28	175.40	179.36	-742.15	17.01	2,649.68	2,517.92	131.75	20.111		
5,300.00	5,128.39	13,558.00	7,081.26	23.95	175.40	179.36	-742.15	17.01	2,602.28	2,465.94	136.34	19.087		
5,400.00	5,220.76	13,558.00	7,081.26	24.62	175.40	179.36	-742.15	17.01	2,557.91	2,416.93	140.98	18.143		
5,500.00	5,313.14	13,558.00	7,081.26	25.30	175.40	179.36	-742.15	17.01	2,516.74	2,371.07	145.67	17.277		
5,600.00	5,405.52	13,558.00	7,081.26	25.98	175.40	179.36	-742.15	17.01	2,478.92	2,328.54	150.37	16.485		
5,700.00	5,497.90	13,558.00	7,081.26	26.67	175.40	179.36	-742.15	17.01	2,444.60	2,289.54	155.06	15.766		
5,800.00	5,590.28	13,558.00	7,081.26	27.35	175.40	179.36	-742.15	17.01	2,413.95	2,254.25	159.69	15.116		
5,900.00	5,682.65	13,558.00	7,081.26	28.04	175.40	179.36	-742.15	17.01	2,387.09	2,222.85	164.24	14.534		
6,000.00	5,775.03	13,558.00	7,081.26	28.73	175.40	179.36	-742.15	17.01	2,364.16	2,195.49	168.66	14.017		
6,100.00	5,867.41	13,558.00	7,081.26	29.42	175.40	179.36	-742.15	17.01	2,345.27	2,172.34	172.93	13.562		
6,200.00	5,959.79	13,558.00	7,081.26	30.11	175.40	179.36	-742.15	17.01	2,330.53	2,153.53	177.00	13.167		
6,300.00	6,052.16	13,558.00	7,081.26	30.80	175.40	179.36	-742.15	17.01	2,320.00	2,139.16	180.84	12.829		
6,400.00	6,144.54	13,558.00	7,081.26	31.50	175.40	179.36	-742.15	17.01	2,313.76	2,129.33	184.43	12.545		
6,494.72	6,232.04	13,558.00	7,081.26	32.16	175.40	179.36	-742.15	17.01	2,311.82	2,124.25	187.56	12.325 CC		
6,500.00	6,236.92	13,558.00	7,081.26	32.20	175.40	179.36	-742.15	17.01	2,311.82	2,124.09	187.73	12.315		
6,600.00	6,329.30	13,558.00	7,081.26	32.90	175.40	179.36	-742.15	17.01	2,314.21	2,123.49	190.72	12.134 ES		
6,700.00	6,421.67	13,558.00	7,081.26	33.60	175.40	179.36	-742.15	17.01	2,320.91	2,127.52	193.40	12.001		
6,800.00	6,514.05	13,558.00	7,081.26	34.30	175.40	179.36	-742.15	17.01	2,331.89	2,136.15	195.74	11.913		
6,809.17	6,522.52	13,558.00	7,081.26	34.36	175.40	179.36	-742.15	17.01	2,333.10	2,137.17	195.93	11.908		
6,850.00	6,560.22	13,558.00	7,081.26	34.65	175.40	-170.27	-742.15	17.01	2,338.94	2,142.16	196.78	11.886		
6,900.00	6,606.13	13,558.00	7,081.26	35.00	175.40	-158.24	-742.15	17.01	2,346.96	2,149.23	197.73	11.869		
6,950.00	6,651.44	13,558.00	7,081.26	35.34	175.40	-147.62	-742.15	17.01	2,355.88	2,157.28	198.59	11.863 SF		
7,000.00	6,695.79	13,558.00	7,081.26	35.67	175.40	-138.63	-742.15	17.01	2,365.61	2,166.26	199.35	11.866		
7,050.00	6,738.87	13,558.00	7,081.26	36.00	175.40	-131.14	-742.15	17.01	2,376.08	2,176.07	200.01	11.880		
7,100.00	6,780.32	13,558.00	7,081.26	36.31	175.40	-124.91	-742.15	17.01	2,387.19	2,186.62	200.57	11.902		
7,150.00	6,819.85	13,558.00	7,081.26	36.61	175.40	-119.67	-742.15	17.01	2,398.86	2,197.83	201.02	11.933		
7,200.00	6,857.14	13,558.00	7,081.26	36.91	175.40	-115.20	-742.15	17.01	2,410.98	2,209.60	201.37	11.973		
7,250.00	6,891.92	13,558.00	7,081.26	37.19	175.40	-111.34	-742.15	17.01	2,423.45	2,221.83	201.63	12.019		
7,300.00	6,923.92	13,558.00	7,081.26	37.46	175.40	-107.96	-742.15	17.01	2,436.19	2,234.40	201.79	12.073		
7,350.00	6,952.90	13,558.00	7,081.26	37.73	175.40	-104.98	-742.15	17.01	2,449.08	2,247.21	201.87	12.132		
7,400.00	6,978.63	13,558.00	7,081.26	37.99	175.40	-102.33	-742.15	17.01	2,462.04	2,260.17	201.87	12.196		
7,450.00	7,000.93	13,558.00	7,081.26	38.25	175.40	-99.97	-742.15	17.01	2,474.95	2,273.15	201.79	12.265		
7,500.00	7,019.61	13,558.00	7,081.26	38.51	175.40	-97.86	-742.15	17.01	2,487.72	2,286.07	201.65	12.337		
7,550.00	7,034.55	13,558.00	7,081.26	38.77	175.40	-95.99	-742.15	17.01	2,500.26	2,298.81	201.46	12.411		
7,600.00	7,045.61	13,558.00	7,081.26	39.04	175.40	-94.35	-742.15	17.01	2,512.48	2,311.28	201.20	12.487		
7,650.00	7,052.73	13,558.00	7,081.26	39.32	175.40	-92.92	-742.15	17.01	2,524.29	2,323.39	200.89	12.565		
7,700.00	7,055.85	13,558.00	7,081.26	39.60	175.40	-91.71	-742.15	17.01	2,535.60	2,335.06	200.53	12.644		
7,713.69	7,056.00	13,558.00	7,081.26	39.68	175.40	-91.42	-742.15	17.01	2,538.60	2,338.17	200.43	12.666		
7,800.00	7,056.00	13,558.00	7,081.26	40.23	175.40	-91.42	-742.15	17.01	2,558.76	2,359.06	199.71	12.813		
7,900.00	7,056.00	13,558.00	7,081.26	41.02	175.40	-91.42	-742.15	17.01	2,585.54	2,386.78	198.76	13.008		
8,000.00	7,056.00	13,558.00	7,081.26	41.97	175.40	-91.42	-742.15	17.01	2,615.86	2,418.16	197.70	13.231		
8,100.00	7,056.00	13,558.00	7,081.26	43.10	175.40	-91.42	-742.15	17.01	2,649.61	2,453.08	196.53	13.482		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
8,200.00	7,056.00	13,558.00	7,081.26	44.40	175.40	-91.42	-742.15	17.01	2,686.67	2,491.41	195.25	13.760		
8,300.00	7,056.00	13,558.00	7,081.26	45.85	175.40	-91.42	-742.15	17.01	2,726.88	2,533.01	193.87	14.065		
8,400.00	7,056.00	13,558.00	7,081.26	47.44	175.40	-91.42	-742.15	17.01	2,770.13	2,577.73	192.40	14.397		
8,500.00	7,056.00	13,558.00	7,081.26	49.17	175.40	-91.42	-742.15	17.01	2,816.27	2,625.41	190.85	14.756		
8,600.00	7,056.00	13,558.00	7,081.26	51.00	175.40	-91.42	-742.15	17.01	2,865.15	2,675.92	189.23	15.141		
8,700.00	7,056.00	13,558.00	7,081.26	52.93	175.40	-91.42	-742.15	17.01	2,916.64	2,729.09	187.55	15.551		
8,800.00	7,056.00	13,558.00	7,081.26	54.94	175.40	-91.42	-742.15	17.01	2,970.61	2,784.79	185.82	15.986		
8,900.00	7,056.00	13,558.00	7,081.26	57.02	175.40	-91.42	-742.15	17.01	3,026.92	2,842.87	184.05	16.446		
9,000.00	7,056.00	13,558.00	7,081.26	59.16	175.40	-91.42	-742.15	17.01	3,085.45	2,903.20	182.25	16.930		
9,100.00	7,056.00	13,558.00	7,081.26	61.36	175.40	-91.42	-742.15	17.01	3,146.06	2,965.63	180.43	17.437		
9,200.00	7,056.00	13,558.00	7,081.26	63.60	175.40	-91.42	-742.15	17.01	3,208.65	3,030.05	178.59	17.966		
9,300.00	7,056.00	13,558.00	7,081.26	65.89	175.40	-91.42	-742.15	17.01	3,273.10	3,096.34	176.76	18.518		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 9C-11HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 128-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,900.00	4,758.88	13,682.00	7,228.58	21.29	176.01	179.54	-1,300.69	7.85	3,258.77	3,125.50	133.28	24.451		
5,000.00	4,851.25	13,682.00	7,228.58	21.95	176.01	179.54	-1,300.69	7.85	3,213.45	3,076.38	137.06	23.445		
5,100.00	4,943.63	13,682.00	7,228.58	22.61	176.01	179.54	-1,300.69	7.85	3,170.62	3,029.74	140.89	22.505		
5,200.00	5,036.01	13,682.00	7,228.58	23.28	176.01	179.54	-1,300.69	7.85	3,130.41	2,985.67	144.74	21.628		
5,300.00	5,128.39	13,682.00	7,228.58	23.95	176.01	179.54	-1,300.69	7.85	3,092.91	2,944.31	148.60	20.813		
5,400.00	5,220.76	13,682.00	7,228.58	24.62	176.01	179.54	-1,300.69	7.85	3,058.22	2,905.76	152.46	20.059		
5,500.00	5,313.14	13,682.00	7,228.58	25.30	176.01	179.54	-1,300.69	7.85	3,026.44	2,870.15	156.29	19.364		
5,600.00	5,405.52	13,682.00	7,228.58	25.98	176.01	179.54	-1,300.69	7.85	2,997.66	2,837.57	160.08	18.725		
5,700.00	5,497.90	13,682.00	7,228.58	26.67	176.01	179.54	-1,300.69	7.85	2,971.96	2,808.15	163.82	18.142		
5,800.00	5,590.28	13,682.00	7,228.58	27.35	176.01	179.54	-1,300.69	7.85	2,949.44	2,781.97	167.47	17.612		
5,900.00	5,682.65	13,682.00	7,228.58	28.04	176.01	179.54	-1,300.69	7.85	2,930.16	2,759.13	171.03	17.133		
6,000.00	5,775.03	13,682.00	7,228.58	28.73	176.01	179.54	-1,300.69	7.85	2,914.18	2,739.71	174.47	16.703		
6,100.00	5,867.41	13,682.00	7,228.58	29.42	176.01	179.54	-1,300.69	7.85	2,901.56	2,723.79	177.77	16.322		
6,200.00	5,959.79	13,682.00	7,228.58	30.11	176.01	179.54	-1,300.69	7.85	2,892.35	2,711.42	180.93	15.986		
6,300.00	6,052.16	13,682.00	7,228.58	30.80	176.01	179.54	-1,300.69	7.85	2,886.57	2,702.66	183.91	15.695		
6,400.00	6,144.54	13,682.00	7,228.58	31.50	176.01	179.54	-1,300.69	7.85	2,884.25	2,697.54	186.72	15.447		
6,416.90	6,160.15	13,682.00	7,228.58	31.62	176.01	179.54	-1,300.69	7.85	2,884.20	2,697.03	187.17	15.409	CC	
6,500.00	6,236.92	13,682.00	7,228.58	32.20	176.01	179.54	-1,300.69	7.85	2,885.40	2,696.07	189.33	15.240	ES	
6,600.00	6,329.30	13,682.00	7,228.58	32.90	176.01	179.54	-1,300.69	7.85	2,890.01	2,698.27	191.74	15.073		
6,700.00	6,421.67	13,682.00	7,228.58	33.60	176.01	179.54	-1,300.69	7.85	2,898.06	2,704.13	193.94	14.943		
6,800.00	6,514.05	13,682.00	7,228.58	34.30	176.01	179.54	-1,300.69	7.85	2,909.53	2,713.61	195.92	14.851		
6,809.17	6,522.52	13,682.00	7,228.58	34.36	176.01	179.54	-1,300.69	7.85	2,910.75	2,714.66	196.09	14.844		
6,850.00	6,560.22	13,682.00	7,228.58	34.65	176.01	-170.10	-1,300.69	7.85	2,916.52	2,719.68	196.83	14.817		
6,900.00	6,606.13	13,682.00	7,228.58	35.00	176.01	-158.10	-1,300.69	7.85	2,924.25	2,726.56	197.69	14.792		
6,950.00	6,651.44	13,682.00	7,228.58	35.34	176.01	-147.53	-1,300.69	7.85	2,932.66	2,734.18	198.48	14.775		
7,000.00	6,695.79	13,682.00	7,228.58	35.67	176.01	-138.61	-1,300.69	7.85	2,941.69	2,742.48	199.21	14.767		
7,050.00	6,738.87	13,682.00	7,228.58	36.00	176.01	-131.22	-1,300.69	7.85	2,951.26	2,751.39	199.87	14.766	SF	
7,100.00	6,780.32	13,682.00	7,228.58	36.31	176.01	-125.11	-1,300.69	7.85	2,961.29	2,760.83	200.46	14.773		
7,150.00	6,819.85	13,682.00	7,228.58	36.61	176.01	-120.00	-1,300.69	7.85	2,971.69	2,770.72	200.98	14.786		
7,200.00	6,857.14	13,682.00	7,228.58	36.91	176.01	-115.68	-1,300.69	7.85	2,982.40	2,780.98	201.42	14.807		
7,250.00	6,891.92	13,682.00	7,228.58	37.19	176.01	-111.99	-1,300.69	7.85	2,993.32	2,791.52	201.80	14.833		
7,300.00	6,923.92	13,682.00	7,228.58	37.46	176.01	-108.79	-1,300.69	7.85	3,004.37	2,802.26	202.11	14.865		
7,350.00	6,952.90	13,682.00	7,228.58	37.73	176.01	-106.00	-1,300.69	7.85	3,015.46	2,813.10	202.36	14.901		
7,400.00	6,978.63	13,682.00	7,228.58	37.99	176.01	-103.54	-1,300.69	7.85	3,026.51	2,823.96	202.56	14.941		
7,450.00	7,000.93	13,682.00	7,228.58	38.25	176.01	-101.39	-1,300.69	7.85	3,037.44	2,834.74	202.70	14.985		
7,500.00	7,019.61	13,682.00	7,228.58	38.51	176.01	-99.49	-1,300.69	7.85	3,048.17	2,845.36	202.80	15.030		
7,550.00	7,034.55	13,682.00	7,228.58	38.77	176.01	-97.83	-1,300.69	7.85	3,058.60	2,855.75	202.86	15.078		
7,600.00	7,045.61	13,682.00	7,228.58	39.04	176.01	-96.39	-1,300.69	7.85	3,068.68	2,865.81	202.87	15.126		
7,650.00	7,052.73	13,682.00	7,228.58	39.32	176.01	-95.17	-1,300.69	7.85	3,078.33	2,875.48	202.85	15.173		
7,700.00	7,055.85	13,682.00	7,228.58	39.60	176.01	-94.17	-1,300.69	7.85	3,087.47	2,884.68	202.79	15.225		
7,713.69	7,056.00	13,682.00	7,228.58	39.68	176.01	-93.93	-1,300.69	7.85	3,089.87	2,887.11	202.76	15.239		
7,800.00	7,056.00	13,682.00	7,228.58	40.23	176.01	-93.93	-1,300.69	7.85	3,106.07	2,903.49	202.59	15.332		
7,900.00	7,056.00	13,682.00	7,228.58	41.02	176.01	-93.93	-1,300.69	7.85	3,127.72	2,925.38	202.34	15.458		
8,000.00	7,056.00	13,682.00	7,228.58	41.97	176.01	-93.93	-1,300.69	7.85	3,152.39	2,950.36	202.03	15.604		
8,100.00	7,056.00	13,682.00	7,228.58	43.10	176.01	-93.93	-1,300.69	7.85	3,180.01	2,978.35	201.66	15.769		
8,200.00	7,056.00	13,682.00	7,228.58	44.40	176.01	-93.93	-1,300.69	7.85	3,210.51	3,009.30	201.22	15.955		
8,300.00	7,056.00	13,682.00	7,228.58	45.85	176.01	-93.93	-1,300.69	7.85	3,243.81	3,043.11	200.70	16.162		
8,400.00	7,056.00	13,682.00	7,228.58	47.44	176.01	-93.93	-1,300.69	7.85	3,279.83	3,079.71	200.11	16.390		

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST VERT JEFFERS 2-1 - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft	
Survey Program: 0-INC											Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,000.00	7,056.00	7,088.00	7,088.00	41.97	142.18	90.00	4,273.39	-2,845.24	3,238.87	3,066.52	172.35	18.792	
8,100.00	7,056.00	7,088.00	7,088.00	43.10	142.18	90.00	4,273.39	-2,845.24	3,178.72	3,005.85	172.87	18.387	
8,200.00	7,056.00	7,088.00	7,088.00	44.40	142.18	90.00	4,273.39	-2,845.24	3,120.62	2,946.93	173.69	17.967	
8,300.00	7,056.00	7,088.00	7,088.00	45.85	142.18	90.00	4,273.39	-2,845.24	3,064.68	2,889.88	174.80	17.532	
8,400.00	7,056.00	7,088.00	7,088.00	47.44	142.18	90.00	4,273.39	-2,845.24	3,011.02	2,834.81	176.21	17.088	
8,500.00	7,056.00	7,088.00	7,088.00	49.17	142.18	90.00	4,273.39	-2,845.24	2,959.76	2,781.86	177.90	16.637	
8,600.00	7,056.00	7,088.00	7,088.00	51.00	142.18	90.00	4,273.39	-2,845.24	2,911.05	2,731.18	179.87	16.184	
8,700.00	7,056.00	7,088.00	7,088.00	52.93	142.18	90.00	4,273.39	-2,845.24	2,864.99	2,682.91	182.09	15.734	
8,800.00	7,056.00	7,088.00	7,088.00	54.94	142.18	90.00	4,273.39	-2,845.24	2,821.73	2,637.19	184.53	15.291	
8,900.00	7,056.00	7,088.00	7,088.00	57.02	142.18	90.00	4,273.39	-2,845.24	2,781.39	2,594.20	187.19	14.859	
9,000.00	7,056.00	7,088.00	7,088.00	59.16	142.18	90.00	4,273.39	-2,845.24	2,744.11	2,554.08	190.03	14.440	
9,100.00	7,056.00	7,088.00	7,088.00	61.36	142.18	90.00	4,273.39	-2,845.24	2,710.00	2,516.97	193.02	14.040	
9,200.00	7,056.00	7,088.00	7,088.00	63.60	142.18	90.00	4,273.39	-2,845.24	2,679.19	2,483.04	196.15	13.659	
9,300.00	7,056.00	7,088.00	7,088.00	65.89	142.18	90.00	4,273.39	-2,845.24	2,651.80	2,452.42	199.38	13.300	
9,400.00	7,056.00	7,088.00	7,088.00	68.21	142.18	90.00	4,273.39	-2,845.24	2,627.93	2,425.25	202.69	12.965	
9,500.00	7,056.00	7,088.00	7,088.00	70.56	142.18	90.00	4,273.39	-2,845.24	2,607.68	2,401.64	206.05	12.656	
9,600.00	7,056.00	7,088.00	7,088.00	72.95	142.18	90.00	4,273.39	-2,845.24	2,591.14	2,381.70	209.44	12.372	
9,700.00	7,056.00	7,088.00	7,088.00	75.35	142.18	90.00	4,273.39	-2,845.24	2,578.37	2,365.54	212.83	12.115	
9,800.00	7,056.00	7,088.00	7,088.00	77.78	142.18	90.00	4,273.39	-2,845.24	2,569.43	2,353.23	216.20	11.885	
9,900.00	7,056.00	7,088.00	7,088.00	80.23	142.18	90.00	4,273.39	-2,845.24	2,564.36	2,344.84	219.52	11.682	
9,980.10	7,056.00	7,088.00	7,088.00	82.21	142.18	90.00	4,273.39	-2,845.24	2,563.11	2,340.97	222.14	11.538	CC
10,000.00	7,056.00	7,088.00	7,088.00	82.70	142.18	90.00	4,273.39	-2,845.24	2,563.19	2,340.41	222.78	11.506	
10,100.00	7,056.00	7,088.00	7,088.00	85.19	142.18	90.00	4,273.39	-2,845.24	2,565.91	2,339.96	225.95	11.356	ES
10,200.00	7,056.00	7,088.00	7,088.00	87.69	142.18	90.00	4,273.39	-2,845.24	2,572.53	2,343.51	229.01	11.233	
10,300.00	7,056.00	7,088.00	7,088.00	90.20	142.18	90.00	4,273.39	-2,845.24	2,583.00	2,351.04	231.96	11.136	
10,400.00	7,056.00	7,088.00	7,088.00	92.73	142.18	90.00	4,273.39	-2,845.24	2,597.28	2,362.51	234.77	11.063	
10,500.00	7,056.00	7,088.00	7,088.00	95.27	142.18	90.00	4,273.39	-2,845.24	2,615.31	2,377.87	237.44	11.015	
10,600.00	7,056.00	7,088.00	7,088.00	97.81	142.18	90.00	4,273.39	-2,845.24	2,637.01	2,397.05	239.96	10.990	
10,700.00	7,056.00	7,088.00	7,088.00	100.37	142.18	90.00	4,273.39	-2,845.24	2,662.29	2,419.97	242.32	10.987	SF
10,800.00	7,056.00	7,088.00	7,088.00	102.94	142.18	90.00	4,273.39	-2,845.24	2,691.05	2,446.54	244.52	11.006	
10,900.00	7,056.00	7,088.00	7,088.00	105.51	142.18	90.00	4,273.39	-2,845.24	2,723.19	2,476.63	246.56	11.045	
11,000.00	7,056.00	7,088.00	7,088.00	108.09	142.18	90.00	4,273.39	-2,845.24	2,758.57	2,510.14	248.44	11.104	
11,100.00	7,056.00	7,088.00	7,088.00	110.68	142.18	90.00	4,273.39	-2,845.24	2,797.09	2,546.93	250.16	11.181	
11,200.00	7,056.00	7,088.00	7,088.00	113.28	142.18	90.00	4,273.39	-2,845.24	2,838.61	2,586.87	251.74	11.276	
11,300.00	7,056.00	7,088.00	7,088.00	115.88	142.18	90.00	4,273.39	-2,845.24	2,883.00	2,629.83	253.16	11.388	
11,400.00	7,056.00	7,088.00	7,088.00	118.49	142.18	90.00	4,273.39	-2,845.24	2,930.13	2,675.68	254.45	11.515	
11,500.00	7,056.00	7,088.00	7,088.00	121.10	142.18	90.00	4,273.39	-2,845.24	2,979.87	2,724.26	255.61	11.658	
11,600.00	7,056.00	7,088.00	7,088.00	123.72	142.18	90.00	4,273.39	-2,845.24	3,032.10	2,775.45	256.64	11.814	
11,700.00	7,056.00	7,088.00	7,088.00	126.34	142.18	90.00	4,273.39	-2,845.24	3,086.68	2,829.12	257.56	11.984	
11,800.00	7,056.00	7,088.00	7,088.00	128.97	142.18	90.00	4,273.39	-2,845.24	3,143.50	2,885.13	258.37	12.167	
11,900.00	7,056.00	7,088.00	7,088.00	131.60	142.18	90.00	4,273.39	-2,845.24	3,202.43	2,943.35	259.08	12.361	
12,000.00	7,056.00	7,088.00	7,088.00	134.23	142.18	90.00	4,273.39	-2,845.24	3,263.36	3,003.66	259.70	12.566	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST VERT JEFFERS 2-2 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
8,100.00	7,056.00	7,055.00	7,055.00	43.10	141.52	90.00	2,918.34	-3,906.16	3,193.79	3,018.70	175.08	18.242		
8,200.00	7,056.00	7,055.00	7,055.00	44.40	141.52	90.00	2,918.34	-3,906.16	3,101.57	2,926.84	174.73	17.750		
8,300.00	7,056.00	7,055.00	7,055.00	45.85	141.52	90.00	2,918.34	-3,906.16	3,009.85	2,835.42	174.42	17.256		
8,400.00	7,056.00	7,055.00	7,055.00	47.44	141.52	90.00	2,918.34	-3,906.16	2,918.67	2,744.50	174.17	16.758		
8,500.00	7,056.00	7,055.00	7,055.00	49.17	141.52	90.00	2,918.34	-3,906.16	2,828.09	2,654.11	173.98	16.255		
8,600.00	7,056.00	7,055.00	7,055.00	51.00	141.52	90.00	2,918.34	-3,906.16	2,738.17	2,564.29	173.88	15.747		
8,700.00	7,056.00	7,055.00	7,055.00	52.93	141.52	90.00	2,918.34	-3,906.16	2,648.97	2,475.08	173.88	15.234		
8,800.00	7,056.00	7,055.00	7,055.00	54.94	141.52	90.00	2,918.34	-3,906.16	2,560.56	2,386.55	174.01	14.715		
8,900.00	7,056.00	7,055.00	7,055.00	57.02	141.52	90.00	2,918.34	-3,906.16	2,473.04	2,298.75	174.30	14.189		
9,000.00	7,056.00	7,055.00	7,055.00	59.16	141.52	90.00	2,918.34	-3,906.16	2,386.50	2,211.74	174.76	13.656		
9,100.00	7,056.00	7,055.00	7,055.00	61.36	141.52	90.00	2,918.34	-3,906.16	2,301.06	2,125.62	175.44	13.116		
9,200.00	7,056.00	7,055.00	7,055.00	63.60	141.52	90.00	2,918.34	-3,906.16	2,216.83	2,040.47	176.36	12.570		
9,300.00	7,056.00	7,055.00	7,055.00	65.89	141.52	90.00	2,918.34	-3,906.16	2,133.96	1,956.40	177.56	12.018		
9,400.00	7,056.00	7,055.00	7,055.00	68.21	141.52	90.00	2,918.34	-3,906.16	2,052.62	1,873.56	179.06	11.463		
9,500.00	7,056.00	7,055.00	7,055.00	70.56	141.52	90.00	2,918.34	-3,906.16	1,972.99	1,792.10	180.90	10.907		
9,600.00	7,056.00	7,055.00	7,055.00	72.95	141.52	90.00	2,918.34	-3,906.16	1,895.30	1,712.20	183.10	10.351		
9,700.00	7,056.00	7,055.00	7,055.00	75.35	141.52	90.00	2,918.34	-3,906.16	1,819.79	1,634.11	185.68	9.801		
9,800.00	7,056.00	7,055.00	7,055.00	77.78	141.52	90.00	2,918.34	-3,906.16	1,746.73	1,558.07	188.67	9.258		
9,900.00	7,056.00	7,055.00	7,055.00	80.23	141.52	90.00	2,918.34	-3,906.16	1,676.47	1,484.40	192.07	8.729		
10,000.00	7,056.00	7,055.00	7,055.00	82.70	141.52	90.00	2,918.34	-3,906.16	1,609.35	1,413.46	195.89	8.216		
10,100.00	7,056.00	7,055.00	7,055.00	85.19	141.52	90.00	2,918.34	-3,906.16	1,545.79	1,345.67	200.12	7.724		
10,200.00	7,056.00	7,055.00	7,055.00	87.69	141.52	90.00	2,918.34	-3,906.16	1,486.24	1,281.50	204.74	7.259		
10,300.00	7,056.00	7,055.00	7,055.00	90.20	141.52	90.00	2,918.34	-3,906.16	1,431.21	1,221.48	209.73	6.824		
10,400.00	7,056.00	7,055.00	7,055.00	92.73	141.52	90.00	2,918.34	-3,906.16	1,381.24	1,166.23	215.02	6.424		
10,500.00	7,056.00	7,055.00	7,055.00	95.27	141.52	90.00	2,918.34	-3,906.16	1,336.90	1,116.37	220.53	6.062		
10,600.00	7,056.00	7,055.00	7,055.00	97.81	141.52	90.00	2,918.34	-3,906.16	1,298.75	1,072.59	226.16	5.743		
10,700.00	7,056.00	7,055.00	7,055.00	100.37	141.52	90.00	2,918.34	-3,906.16	1,267.36	1,035.58	231.79	5.468		
10,800.00	7,056.00	7,055.00	7,055.00	102.94	141.52	90.00	2,918.34	-3,906.16	1,243.25	1,006.00	237.26	5.240		
10,900.00	7,056.00	7,055.00	7,055.00	105.51	141.52	90.00	2,918.34	-3,906.16	1,226.84	984.43	242.41	5.061		
11,000.00	7,056.00	7,055.00	7,055.00	108.09	141.52	90.00	2,918.34	-3,906.16	1,218.44	971.33	247.11	4.931		
11,052.70	7,056.00	7,055.00	7,055.00	109.46	141.52	90.00	2,918.34	-3,906.16	1,217.30	967.94	249.36	4.882 CC		
11,100.00	7,056.00	7,055.00	7,055.00	110.68	141.52	90.00	2,918.34	-3,906.16	1,218.22	967.00	251.22	4.849 ES		
11,200.00	7,056.00	7,055.00	7,055.00	113.28	141.52	90.00	2,918.34	-3,906.16	1,226.18	971.53	254.65	4.815 SF		
11,300.00	7,056.00	7,055.00	7,055.00	115.88	141.52	90.00	2,918.34	-3,906.16	1,242.16	984.81	257.35	4.827		
11,400.00	7,056.00	7,055.00	7,055.00	118.49	141.52	90.00	2,918.34	-3,906.16	1,265.87	1,006.55	259.32	4.881		
11,500.00	7,056.00	7,055.00	7,055.00	121.10	141.52	90.00	2,918.34	-3,906.16	1,296.88	1,036.28	260.60	4.976		
11,600.00	7,056.00	7,055.00	7,055.00	123.72	141.52	90.00	2,918.34	-3,906.16	1,334.67	1,073.41	261.26	5.109		
11,700.00	7,056.00	7,055.00	7,055.00	126.34	141.52	90.00	2,918.34	-3,906.16	1,378.70	1,117.32	261.38	5.275		
11,800.00	7,056.00	7,055.00	7,055.00	128.97	141.52	90.00	2,918.34	-3,906.16	1,428.38	1,167.33	261.05	5.472		
11,900.00	7,056.00	7,055.00	7,055.00	131.60	141.52	90.00	2,918.34	-3,906.16	1,483.15	1,222.78	260.37	5.696		
12,000.00	7,056.00	7,055.00	7,055.00	134.23	141.52	90.00	2,918.34	-3,906.16	1,542.46	1,283.05	259.41	5.946		
12,100.00	7,056.00	7,055.00	7,055.00	136.87	141.52	90.00	2,918.34	-3,906.16	1,605.82	1,347.55	258.26	6.218		
12,200.00	7,056.00	7,055.00	7,055.00	139.51	141.52	90.00	2,918.34	-3,906.16	1,672.75	1,415.78	256.97	6.509		
12,300.00	7,056.00	7,055.00	7,055.00	142.15	141.52	90.00	2,918.34	-3,906.16	1,742.86	1,487.27	255.59	6.819		
12,400.00	7,056.00	7,055.00	7,055.00	144.80	141.52	90.00	2,918.34	-3,906.16	1,815.77	1,561.60	254.17	7.144		
12,500.00	7,056.00	7,055.00	7,055.00	147.45	141.52	90.00	2,918.34	-3,906.16	1,891.16	1,638.44	252.72	7.483		
12,600.00	7,056.00	7,055.00	7,055.00	150.10	141.52	90.00	2,918.34	-3,906.16	1,968.74	1,717.47	251.28	7.835		
12,700.00	7,056.00	7,055.00	7,055.00	152.75	141.52	90.00	2,918.34	-3,906.16	2,048.27	1,798.42	249.85	8.198		
12,800.00	7,056.00	7,055.00	7,055.00	155.41	141.52	90.00	2,918.34	-3,906.16	2,129.52	1,881.06	248.46	8.571		
12,900.00	7,056.00	7,055.00	7,055.00	158.07	141.52	90.00	2,918.34	-3,906.16	2,212.31	1,965.21	247.10	8.953		
13,000.00	7,056.00	7,055.00	7,055.00	160.73	141.52	90.00	2,918.34	-3,906.16	2,296.47	2,050.68	245.80	9.343		
13,100.00	7,056.00	7,055.00	7,055.00	163.39	141.52	90.00	2,918.34	-3,906.16	2,381.86	2,137.32	244.54	9.740		

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

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST VERT JEFFERS 2-2 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
13,200.00	7,056.00	7,055.00	7,055.00	166.06	141.52	90.00	2,918.34	-3,906.16	2,468.34	2,225.01	243.33	10.144		
13,300.00	7,056.00	7,055.00	7,055.00	168.73	141.52	90.00	2,918.34	-3,906.16	2,555.81	2,313.64	242.17	10.554		
13,400.00	7,056.00	7,055.00	7,055.00	171.40	141.52	90.00	2,918.34	-3,906.16	2,644.17	2,403.11	241.06	10.969		
13,500.00	7,056.00	7,055.00	7,055.00	174.07	141.52	90.00	2,918.34	-3,906.16	2,733.33	2,493.33	240.00	11.389		
13,600.00	7,056.00	7,055.00	7,055.00	176.74	141.52	90.00	2,918.34	-3,906.16	2,823.21	2,584.23	238.99	11.813		
13,700.00	7,056.00	7,055.00	7,055.00	179.41	141.52	90.00	2,918.34	-3,906.16	2,913.76	2,675.74	238.02	12.242		
13,800.00	7,056.00	7,055.00	7,055.00	182.09	141.52	90.00	2,918.34	-3,906.16	3,004.91	2,767.81	237.10	12.674		
13,900.00	7,056.00	7,055.00	7,055.00	184.76	141.52	90.00	2,918.34	-3,906.16	3,096.60	2,860.38	236.22	13.109		
14,000.00	7,056.00	7,055.00	7,055.00	187.44	141.52	90.00	2,918.34	-3,906.16	3,188.79	2,953.41	235.38	13.547		

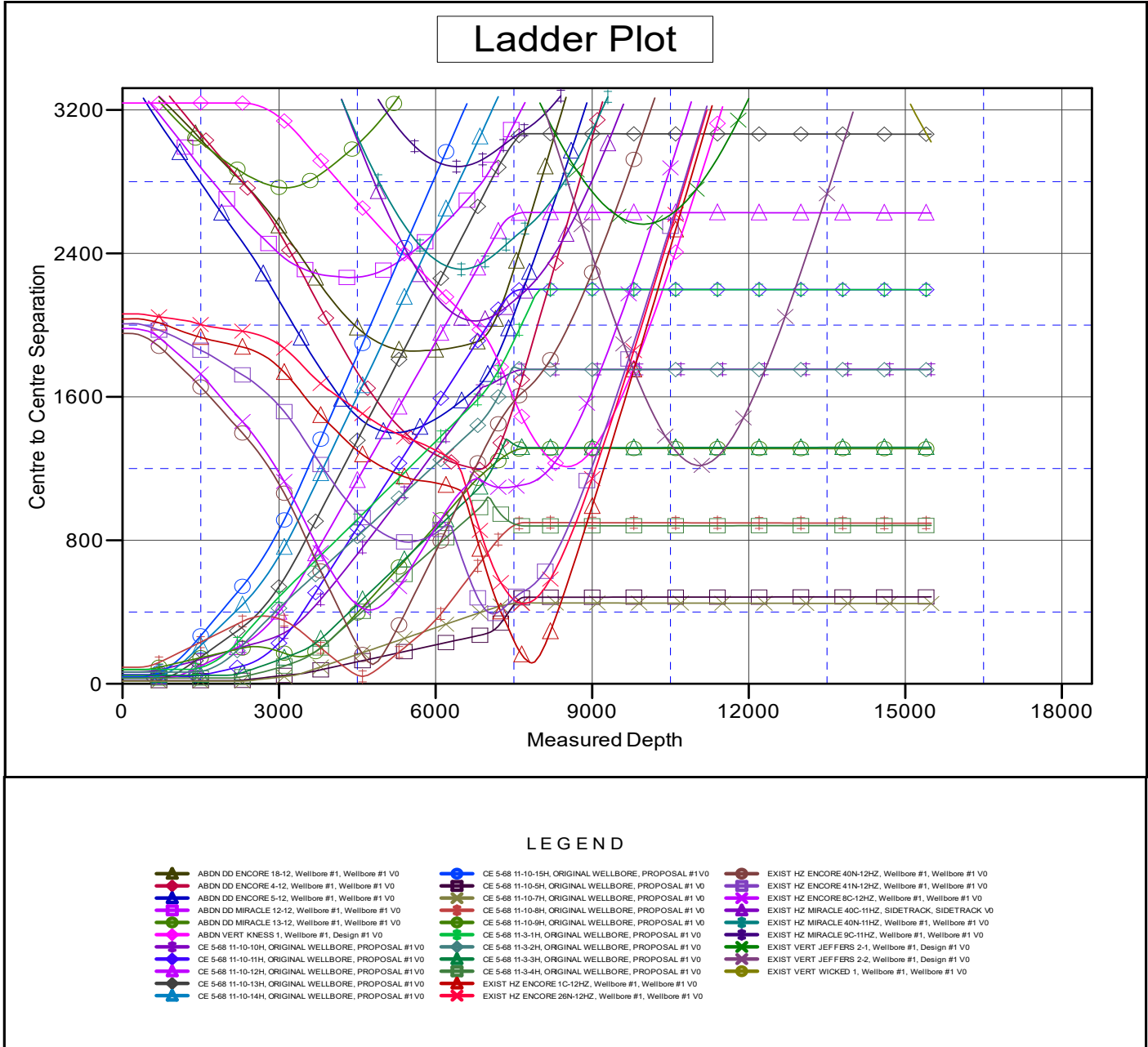
Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST VERT WICKED 1 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 100-GYD_CT													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	7,056.00	6,875.63	6,859.51	216.97	4.48	-86.39	-991.08	-9,775.65	3,232.27	3,040.13	192.14	16.823		
15,200.00	7,056.00	6,885.51	6,869.34	219.66	4.49	-86.61	-991.02	-9,776.63	3,175.89	2,978.85	197.04	16.118		
15,300.00	7,056.00	6,895.38	6,879.16	222.35	4.50	-86.82	-990.97	-9,777.60	3,121.67	2,919.68	201.99	15.454		
15,400.00	7,056.00	6,905.26	6,888.99	225.04	4.52	-87.03	-990.91	-9,778.58	3,069.72	2,862.74	206.98	14.831		
15,496.19	7,056.00	6,914.76	6,898.44	227.63	4.53	-87.23	-990.85	-9,779.52	3,022.00	2,810.21	211.79	14.269	CC, ES, SF	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KBE @ 5000.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000

Coordinates are relative to: CE 5-68 11-10-6H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.35°

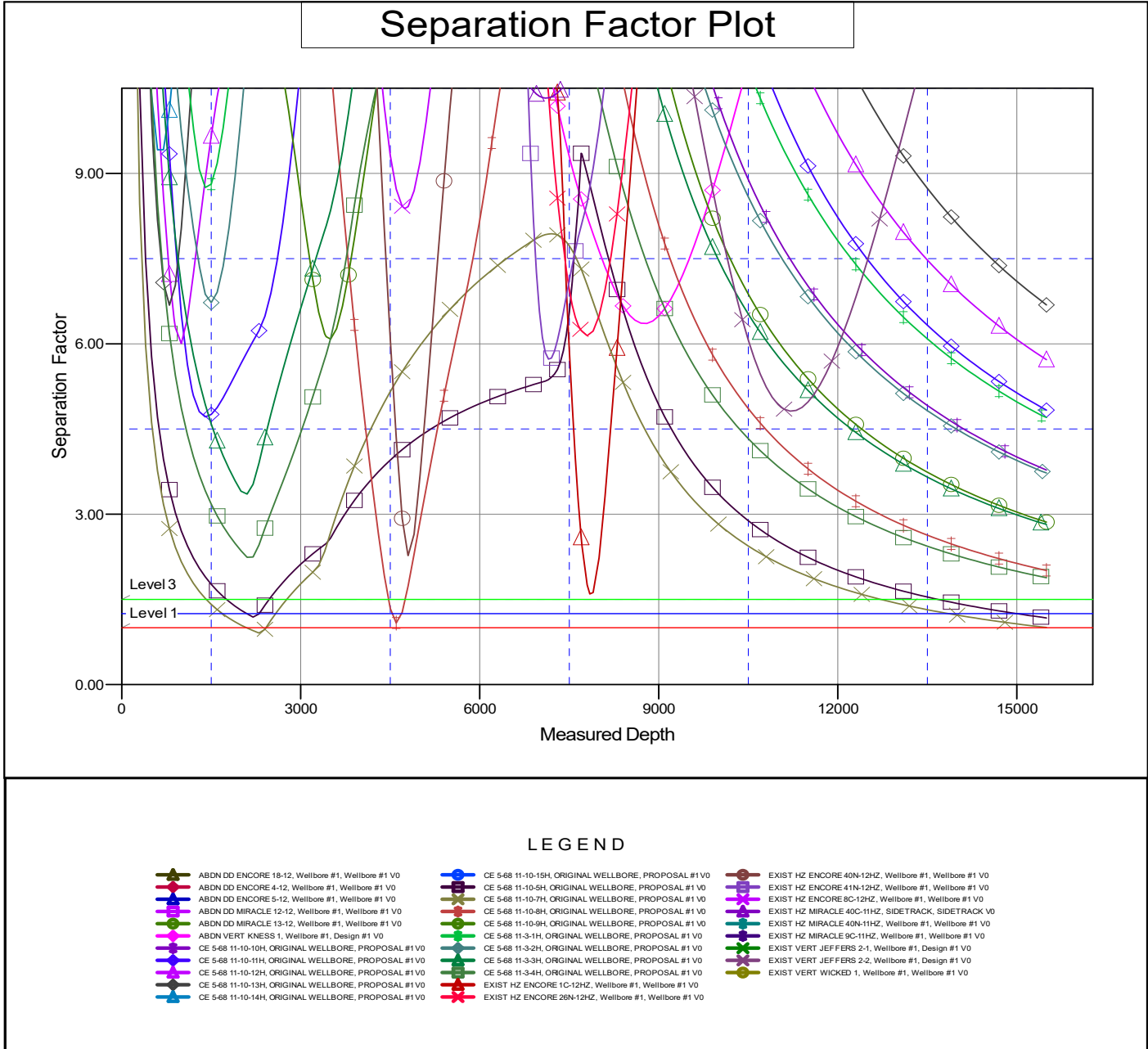


CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well CE 5-68 11-10-6H
Project:	LARIMER COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 5000.00usft
Reference Site:	SEC. 11 T5N R68W 6th P.M.	MD Reference:	KBE @ 5000.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	CE 5-68 11-10-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KBE @ 5000.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000

Coordinates are relative to: CE 5-68 11-10-6H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.35°



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