



BISON IV OPERATING

WELD COUNTY, COLORADO (NAD 83)

SE NW SEC. 23 T9N R58W 6th P.M.

FISCUS 9-58 23-26-5

ORIGINAL WELLBORE

PROPOSAL #1

Anticollision Report

01 February, 2024



Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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	2024-02-01		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	14,678.08	PROPOSAL #1 (ORIGINAL WELLBORE)	OWSG (Rev2) MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SE NW SEC. 23 T9N R58W 6th P.M.						
ABDN VERT HENSLEY A-1 - Wellbore #1 - Design #1	7,677.33	5,602.00	382.75	228.23	2.477	CC
ABDN VERT HENSLEY A-1 - Wellbore #1 - Design #1	7,700.00	5,602.00	383.42	227.63	2.461	ES, SF
ABDN VERT INGRAM #1 - Wellbore #1 - Design #1	7,400.00	5,612.00	950.31	791.28	5.975	SF
ABDN VERT INGRAM #1 - Wellbore #1 - Design #1	7,500.00	5,612.00	939.72	783.82	6.028	ES
ABDN VERT INGRAM #1 - Wellbore #1 - Design #1	7,550.13	5,612.00	938.38	784.09	6.082	CC
ABDN VERT RAUTH #1 - Wellbore #1 - Design #1						Out of range
EXIST HZ COOK STATE LD #36-78HN - Wellbore #1 - W						Out of range
EXIST HZ ELLIE #LD26-615 - Wellbore #1 - Wellbore #1	14,678.08	14,828.82	2,380.94	2,089.36	8.166	CC, ES, SF
EXIST HZ ELLIE #LD26-625 - Wellbore #1 - Wellbore #1	14,678.08	14,785.21	1,741.45	1,450.44	5.984	CC, ES, SF
EXIST HZ ELLIE #LD26-635 - Wellbore #1 - Wellbore #1	14,678.08	14,814.46	1,100.88	809.77	3.782	CC, ES, SF
EXIST HZ ELLIE #LD26-645 - Wellbore #1 - Wellbore #1	14,678.08	14,809.35	448.36	168.66	1.603	CC, ES, SF
EXIST HZ FISCUS FED #2627-01H - Wellbore #1 - Well						Out of range
EXIST HZ FISCUS FED #2627-02H - Wellbore #1 - Well						Out of range
EXIST HZ FISCUS FED #2627-03H - Wellbore #1 - Well						Out of range
EXIST HZ FISCUS FED #2627-04H - Wellbore #1 - Well						Out of range
EXIST HZ FISCUS FED #2627-05H - Wellbore #1 - Well						Out of range
EXIST HZ FISCUS FED #LD23-78HN - Wellbore #1 - We	4,944.54	10,037.00	2,701.65	2,599.34	26.408	CC
EXIST HZ FISCUS FED #LD23-78HN - Wellbore #1 - We	5,000.00	10,037.00	2,702.21	2,598.87	26.148	ES
EXIST HZ FISCUS FED #LD23-78HN - Wellbore #1 - We	5,600.00	10,037.00	2,780.02	2,667.95	24.807	SF
EXIST HZ TATANKA FED LD #13-615 - Wellbore #1 - W	6,654.92	9,512.12	244.53	123.66	2.023	CC
EXIST HZ TATANKA FED LD #13-615 - Wellbore #1 - W	6,700.00	9,528.39	249.69	116.05	1.868	ES
EXIST HZ TATANKA FED LD #13-615 - Wellbore #1 - W	6,750.00	9,546.45	266.84	123.19	1.858	SF
EXIST HZ TATANKA FED LD #13-625 - Wellbore #1 - W	6,551.64	9,466.96	744.58	611.14	5.580	CC
EXIST HZ TATANKA FED LD #13-625 - Wellbore #1 - W	6,600.00	9,489.55	747.84	610.41	5.442	ES
EXIST HZ TATANKA FED LD #13-625 - Wellbore #1 - W	6,700.00	9,529.13	774.81	630.54	5.371	SF
FISCUS 9-58 23-25-8 - ORIGINAL WELLBORE - PROPO	1,000.00	1,000.00	60.15	53.41	8.925	CC, ES
FISCUS 9-58 23-25-8 - ORIGINAL WELLBORE - PROPO	14,678.08	15,575.86	2,004.73	1,763.16	8.299	SF
FISCUS 9-58 23-25-9 - ORIGINAL WELLBORE - PROPO	900.00	900.00	80.10	74.08	13.301	CC, ES
FISCUS 9-58 23-25-9 - ORIGINAL WELLBORE - PROPO	14,678.08	16,004.76	2,671.03	2,430.31	11.096	SF
FISCUS 9-58 23-26-1 - ORIGINAL WELLBORE - PROPO	300.00	300.00	80.10	78.38	46.552	CC
FISCUS 9-58 23-26-1 - ORIGINAL WELLBORE - PROPO	400.00	399.05	80.68	78.24	33.147	ES
FISCUS 9-58 23-26-1 - ORIGINAL WELLBORE - PROPO	14,678.08	13,599.74	3,022.90	2,793.05	13.151	SF
FISCUS 9-58 23-26-2 - ORIGINAL WELLBORE - PROPO	459.47	459.48	59.86	57.00	20.904	CC
FISCUS 9-58 23-26-2 - ORIGINAL WELLBORE - PROPO	500.00	500.00	59.88	56.73	18.988	ES
FISCUS 9-58 23-26-2 - ORIGINAL WELLBORE - PROPO	14,678.08	14,010.76	2,005.33	1,762.37	8.253	SF
FISCUS 9-58 23-26-3 - ORIGINAL WELLBORE - PROPO	1,300.00	1,300.00	39.91	31.02	4.490	CC, ES

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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)	Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SE NW SEC. 23 T9N R58W 6th P.M.						
FISCUS 9-58 23-26-3 - ORIGINAL WELLBORE - PROPO	1,400.00	1,399.95	41.42	31.82	4.312	SF
FISCUS 9-58 23-26-4 - ORIGINAL WELLBORE - PROPO	1,300.00	1,300.00	19.96	11.07	2.245	CC, ES
FISCUS 9-58 23-26-4 - ORIGINAL WELLBORE - PROPO	1,400.00	1,399.95	21.52	11.91	2.240	SF
FISCUS FED 9-58 23-25-10 - ORIGINAL WELLBORE - P	800.00	800.00	100.06	94.75	18.860	CC, ES
FISCUS FED 9-58 23-25-10 - ORIGINAL WELLBORE - P	1,000.00	990.46	109.03	102.35	16.325	SF
FISCUS FED 9-58 23-25-11 - ORIGINAL WELLBORE - P	700.00	700.00	120.02	115.43	26.157	CC, ES
FISCUS FED 9-58 23-25-13 - ORIGINAL WELLBORE - P	1,000.00	981.65	140.56	133.93	21.219	SF
FISCUS FED 9-58 23-25-12 - ORIGINAL WELLBORE - P	600.00	600.00	139.98	136.10	36.156	CC, ES
FISCUS FED 9-58 23-25-12 - ORIGINAL WELLBORE - P	6,100.00	5,056.89	2,440.87	2,343.50	25.066	SF
FISCUS FED 9-58 23-25-13 - ORIGINAL WELLBORE - P	500.00	500.00	159.93	156.78	50.699	CC, ES
FISCUS FED 9-58 23-25-13 - ORIGINAL WELLBORE - P	6,150.00	4,943.36	2,647.02	2,550.83	27.519	SF
FISCUS FED 9-58 23-25-14 - ORIGINAL WELLBORE - P	400.00	400.00	179.89	177.45	73.797	CC, ES
FISCUS FED 9-58 23-25-14 - ORIGINAL WELLBORE - P	6,150.00	4,754.63	2,843.96	2,751.02	30.599	SF
FISCUS FED 9-58 23-25-15 - ORIGINAL WELLBORE - P	300.00	300.00	200.12	198.40	116.305	CC, ES
FISCUS FED 9-58 23-25-15 - ORIGINAL WELLBORE - P	6,150.00	4,630.57	2,976.27	2,884.79	32.536	SF
FISCUS FED 9-58 23-26-6 - ORIGINAL WELLBORE - P	1,200.00	1,200.00	19.96	11.78	2.442	CC, ES, SF
FISCUS FED 9-58 23-26-7 - ORIGINAL WELLBORE - P	1,100.00	1,100.00	39.91	32.46	5.353	CC, ES
FISCUS FED 9-58 23-26-7 - ORIGINAL WELLBORE - P	1,200.00	1,198.36	41.89	33.73	5.134	SF

Offset Design: SE NW SEC. 23 T9N R58W 6th P.M. - ABDN VERT HENSLEY A-1 - Wellbore #1 - Design #1											Offset Site Error: 0.00 usft		
Survey Program: 0-INC				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 (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	47.37	1,431.50	1,555.11	2,115.33				
100.00	100.00	16.00	16.00	0.14	0.43	47.37	1,431.50	1,555.11	2,113.66	2,113.09	0.57	3,710.843	
200.00	200.00	116.00	116.00	0.50	2.99	47.37	1,431.50	1,555.11	2,113.66	2,110.17	3.49	605.017	
300.00	300.00	216.00	216.00	0.86	5.04	47.37	1,431.50	1,555.11	2,113.66	2,107.76	5.90	358.015	
400.00	400.00	316.00	316.00	1.22	7.07	47.37	1,431.50	1,555.11	2,113.66	2,105.37	8.29	254.967	
500.00	500.00	416.00	416.00	1.58	9.09	47.37	1,431.50	1,555.11	2,113.66	2,102.99	10.67	198.122	
600.00	600.00	516.00	516.00	1.94	11.11	47.37	1,431.50	1,555.11	2,113.66	2,100.62	13.04	162.045	
700.00	700.00	616.00	616.00	2.29	13.12	47.37	1,431.50	1,555.11	2,113.66	2,098.25	15.42	137.099	
800.00	800.00	716.00	716.00	2.65	15.14	47.37	1,431.50	1,555.11	2,113.66	2,095.87	17.79	118.816	
900.00	900.00	816.00	816.00	3.01	17.15	47.37	1,431.50	1,555.11	2,113.66	2,093.50	20.16	104.839	
1,000.00	1,000.00	916.00	916.00	3.37	19.16	47.37	1,431.50	1,555.11	2,113.66	2,091.13	22.53	93.806	
1,100.00	1,100.00	1,016.00	1,016.00	3.73	21.17	47.37	1,431.50	1,555.11	2,113.66	2,088.76	24.90	84.876	
1,200.00	1,200.00	1,116.00	1,116.00	4.09	23.19	47.37	1,431.50	1,555.11	2,113.66	2,086.39	27.27	77.498	
1,300.00	1,300.00	1,216.00	1,216.00	4.45	25.20	47.37	1,431.50	1,555.11	2,113.66	2,084.02	29.64	71.301	
1,400.00	1,399.95	1,315.95	1,315.95	4.80	27.21	14.81	1,431.50	1,555.11	2,111.13	2,079.12	32.01	65.948	
1,500.00	1,499.63	1,415.63	1,415.63	5.16	29.22	14.92	1,431.50	1,555.11	2,103.55	2,069.17	34.37	61.195	
1,600.00	1,598.77	1,514.77	1,514.77	5.52	31.21	15.11	1,431.50	1,555.11	2,090.93	2,054.21	36.73	56.932	
1,700.00	1,697.08	1,613.08	1,613.08	5.90	33.19	15.39	1,431.50	1,555.11	2,073.33	2,034.27	39.06	53.077	
1,800.00	1,794.31	1,710.31	1,710.31	6.30	35.14	15.75	1,431.50	1,555.11	2,050.80	2,009.43	41.38	49.564	
1,900.00	1,890.18	1,806.18	1,806.18	6.73	37.07	16.20	1,431.50	1,555.11	2,023.42	1,979.75	43.67	46.338	
2,000.00	1,984.43	1,900.43	1,900.43	7.20	38.97	16.76	1,431.50	1,555.11	1,991.27	1,945.34	45.93	43.358	
2,100.00	2,076.81	1,992.81	1,992.81	7.73	40.82	17.43	1,431.50	1,555.11	1,954.46	1,906.30	48.15	40.588	
2,200.00	2,167.06	2,083.06	2,083.06	8.33	42.64	18.24	1,431.50	1,555.11	1,913.12	1,862.77	50.34	38.001	
2,300.00	2,254.93	2,170.93	2,170.93	8.99	44.41	19.19	1,431.50	1,555.11	1,867.39	1,814.89	52.49	35.573	
2,400.00	2,340.18	2,256.18	2,256.18	9.74	46.12	20.32	1,431.50	1,555.11	1,817.43	1,762.83	54.60	33.284	
2,500.00	2,422.59	2,338.59	2,338.59	10.56	47.78	21.64	1,431.50	1,555.11	1,763.42	1,706.75	56.67	31.119	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - ABDN VERT HENSLEY A-1 - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-INC		Rule Assigned:											Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			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	
2,600.00	2,501.91	2,417.91	2,417.91	11.47	49.37	23.20	1,431.50	1,555.11	1,705.57	1,646.88	58.69	29.062		
2,700.00	2,577.95	2,493.95	2,493.95	12.47	50.90	25.03	1,431.50	1,555.11	1,644.08	1,583.42	60.66	27.102		
2,799.34	2,650.00	2,566.00	2,566.00	13.55	52.35	27.16	1,431.50	1,555.11	1,579.66	1,517.08	62.58	25.241		
2,800.00	2,650.47	2,566.47	2,566.47	13.55	52.36	27.17	1,431.50	1,555.11	1,579.22	1,516.63	62.60	25.229		
2,900.00	2,721.21	2,637.21	2,637.21	14.70	53.78	28.32	1,431.50	1,555.11	1,512.97	1,448.45	64.52	23.448		
3,000.00	2,791.95	2,707.95	2,707.95	15.87	55.21	29.57	1,431.50	1,555.11	1,447.14	1,380.65	66.49	21.763		
3,100.00	2,862.68	2,778.68	2,778.68	17.07	56.63	30.91	1,431.50	1,555.11	1,381.79	1,313.27	68.52	20.168		
3,200.00	2,933.42	2,849.42	2,849.42	18.29	58.05	32.38	1,431.50	1,555.11	1,316.99	1,246.40	70.59	18.656		
3,300.00	3,004.15	2,920.15	2,920.15	19.53	59.47	33.97	1,431.50	1,555.11	1,252.83	1,180.09	72.74	17.224		
3,400.00	3,074.89	2,990.89	2,990.89	20.77	60.90	35.70	1,431.50	1,555.11	1,189.41	1,114.45	74.96	15.867		
3,500.00	3,145.62	3,061.62	3,061.62	22.03	62.32	37.59	1,431.50	1,555.11	1,126.85	1,049.58	77.27	14.584		
3,600.00	3,216.36	3,132.36	3,132.36	23.30	63.74	39.66	1,431.50	1,555.11	1,065.31	985.64	79.67	13.371		
3,700.00	3,287.09	3,203.09	3,203.09	24.57	65.17	41.93	1,431.50	1,555.11	1,004.97	922.78	82.19	12.227		
3,800.00	3,357.83	3,273.83	3,273.83	25.85	66.59	44.42	1,431.50	1,555.11	946.07	861.22	84.85	11.150		
3,900.00	3,428.56	3,344.56	3,344.56	27.14	68.01	47.15	1,431.50	1,555.11	888.88	801.23	87.65	10.141		
4,000.00	3,499.30	3,415.30	3,415.30	28.43	69.43	50.14	1,431.50	1,555.11	833.78	743.15	90.62	9.200		
4,100.00	3,570.03	3,486.03	3,486.03	29.73	70.86	53.42	1,431.50	1,555.11	781.18	687.39	93.79	8.329		
4,200.00	3,640.77	3,556.77	3,556.77	31.03	72.28	57.00	1,431.50	1,555.11	731.64	634.49	97.15	7.531		
4,300.00	3,711.50	3,627.50	3,627.50	32.33	73.70	60.90	1,431.50	1,555.11	685.81	585.10	100.71	6.810		
4,400.00	3,782.24	3,698.24	3,698.24	33.64	75.12	65.11	1,431.50	1,555.11	644.49	540.05	104.44	6.171		
4,500.00	3,852.97	3,768.97	3,768.97	34.95	76.55	69.64	1,431.50	1,555.11	608.61	500.31	108.30	5.620		
4,600.00	3,923.71	3,839.71	3,839.71	36.26	77.97	74.45	1,431.50	1,555.11	579.16	466.99	112.17	5.163		
4,700.00	3,994.44	3,910.44	3,910.44	37.57	79.39	79.49	1,431.50	1,555.11	557.17	441.24	115.93	4.806		
4,800.00	4,065.18	3,981.18	3,981.18	38.88	80.81	84.70	1,431.50	1,555.11	543.56	424.15	119.40	4.552		
4,900.00	4,135.92	4,051.92	4,051.92	40.20	82.24	90.00	1,431.50	1,555.11	538.94	416.51	122.43	4.402		
4,900.01	4,135.92	4,051.92	4,051.92	40.20	82.24	90.00	1,431.50	1,555.11	538.94	416.51	122.43	4.402		
5,000.00	4,206.65	4,122.65	4,122.65	41.52	83.66	95.30	1,431.50	1,555.11	543.55	418.64	124.92	4.351		
5,100.00	4,277.39	4,193.39	4,193.39	42.84	85.08	100.51	1,431.50	1,555.11	557.17	430.34	126.84	4.393		
5,200.00	4,348.12	4,264.12	4,264.12	44.16	86.50	105.55	1,431.50	1,555.11	579.16	450.90	128.26	4.516		
5,300.00	4,418.86	4,334.86	4,334.86	45.48	87.93	110.36	1,431.50	1,555.11	608.60	479.30	129.30	4.707		
5,400.00	4,489.59	4,405.59	4,405.59	46.80	89.35	114.89	1,431.50	1,555.11	644.49	514.40	130.09	4.954		
5,500.00	4,560.33	4,476.33	4,476.33	48.12	90.77	119.10	1,431.50	1,555.11	685.80	555.05	130.75	5.245		
5,600.00	4,631.06	4,547.06	4,547.06	49.45	92.19	123.00	1,431.50	1,555.11	731.63	600.26	131.36	5.569		
5,700.00	4,701.80	4,617.80	4,617.80	50.77	93.62	126.58	1,431.50	1,555.11	781.17	649.17	132.00	5.918		
5,800.00	4,772.53	4,688.53	4,688.53	52.10	95.04	129.86	1,431.50	1,555.11	833.77	701.08	132.68	6.284		
5,900.00	4,843.27	4,759.27	4,759.27	53.42	96.46	132.85	1,431.50	1,555.11	888.88	755.43	133.44	6.661		
5,954.41	4,881.76	4,797.76	4,797.76	54.14	97.23	134.37	1,431.50	1,555.11	919.76	785.87	133.89	6.870		
6,000.00	4,914.92	4,830.92	4,830.92	54.73	97.90	132.37	1,431.50	1,555.11	944.56	810.26	134.29	7.034		
6,050.00	4,953.22	4,869.22	4,869.22	55.35	98.67	129.29	1,431.50	1,555.11	968.63	833.85	134.78	7.187		
6,100.00	4,993.27	4,909.27	4,909.27	55.92	99.48	125.21	1,431.50	1,555.11	989.27	853.98	135.30	7.312		
6,150.00	5,034.75	4,950.75	4,950.75	56.45	100.31	120.03	1,431.50	1,555.11	1,006.37	870.53	135.84	7.408		
6,200.00	5,077.34	4,993.34	4,993.34	56.91	101.17	113.76	1,431.50	1,555.11	1,019.80	883.40	136.40	7.477		
6,250.00	5,120.74	5,036.74	5,036.74	57.32	102.04	106.50	1,431.50	1,555.11	1,029.50	892.54	136.96	7.517		
6,300.00	5,164.59	5,080.59	5,080.59	57.67	102.92	98.57	1,431.50	1,555.11	1,035.42	897.90	137.52	7.529		
6,350.00	5,208.58	5,124.58	5,124.58	57.94	103.81	90.46	1,431.50	1,555.11	1,037.54	899.49	138.05	7.516		
6,400.00	5,252.36	5,168.36	5,168.36	58.15	104.69	82.73	1,431.50	1,555.11	1,035.87	897.31	138.55	7.476		
6,450.00	5,295.61	5,211.61	5,211.61	58.30	105.56	75.84	1,431.50	1,555.11	1,030.45	891.44	139.02	7.412		
6,500.00	5,337.99	5,253.99	5,253.99	58.38	106.41	70.05	1,431.50	1,555.11	1,021.36	881.93	139.43	7.325		
6,550.00	5,379.18	5,295.18	5,295.18	58.40	107.24	65.45	1,431.50	1,555.11	1,008.70	868.90	139.79	7.216		
6,600.00	5,418.87	5,334.87	5,334.87	58.36	108.04	62.01	1,431.50	1,555.11	992.58	852.49	140.09	7.085		
6,650.00	5,456.75	5,372.75	5,372.75	58.27	108.80	59.65	1,431.50	1,555.11	973.18	832.86	140.33	6.935		
6,700.00	5,492.54	5,408.54	5,408.54	58.14	109.52	58.28	1,431.50	1,555.11	950.68	810.19	140.49	6.767		

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - ABDN VERT HENSLEY A-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		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)		
6,750.00	5,525.96	5,441.96	5,441.96	57.96	110.19	57.82	1,431.50	1,555.11	925.27	784.69	140.58	6.582
6,800.00	5,556.77	5,472.77	5,472.77	57.74	110.81	58.23	1,431.50	1,555.11	897.21	756.61	140.60	6.381
6,850.00	5,584.72	5,500.72	5,500.72	57.49	111.37	59.48	1,431.50	1,555.11	866.74	726.19	140.55	6.167
6,900.00	5,609.61	5,525.61	5,525.61	57.20	111.87	61.54	1,431.50	1,555.11	834.14	693.72	140.43	5.940
6,950.00	5,631.24	5,547.24	5,547.24	56.90	112.31	64.40	1,431.50	1,555.11	799.72	659.47	140.25	5.702
7,000.00	5,649.44	5,565.44	5,565.44	56.57	112.67	68.04	1,431.50	1,555.11	763.78	623.77	140.01	5.455
7,050.00	5,664.09	5,580.09	5,580.09	56.22	112.97	72.38	1,431.50	1,555.11	726.67	586.91	139.75	5.200
7,100.00	5,675.07	5,591.07	5,591.07	55.87	113.19	77.28	1,431.50	1,555.11	688.71	549.23	139.48	4.938
7,150.00	5,682.29	5,598.29	5,598.29	55.50	113.33	82.55	1,431.50	1,555.11	650.28	511.05	139.23	4.671
7,200.00	5,685.71	5,601.71	5,601.71	55.14	113.40	87.93	1,431.50	1,555.11	611.73	472.69	139.04	4.400
7,219.51	5,686.00	5,602.00	5,602.00	54.99	113.41	90.00	1,431.50	1,555.11	596.73	457.74	138.99	4.293
7,300.00	5,686.00	5,602.00	5,602.00	54.42	113.41	90.00	1,431.50	1,555.11	537.47	398.32	139.15	3.863
7,400.00	5,686.00	5,602.00	5,602.00	53.72	113.41	90.00	1,431.50	1,555.11	472.66	332.00	140.65	3.360
7,500.00	5,686.00	5,602.00	5,602.00	53.06	113.41	90.00	1,431.50	1,555.11	421.83	277.56	144.27	2.924
7,600.00	5,686.00	5,602.00	5,602.00	52.42	113.41	90.00	1,431.50	1,555.11	390.48	240.65	149.83	2.606
7,677.33	5,686.00	5,602.00	5,602.00	51.95	113.41	90.00	1,431.50	1,555.11	382.75	228.23	154.52	2.477 CC
7,700.00	5,686.00	5,602.00	5,602.00	51.82	113.41	90.00	1,431.50	1,555.11	383.42	227.63	155.79	2.461 ES, SF
7,800.00	5,686.00	5,602.00	5,602.00	51.23	113.41	90.00	1,431.50	1,555.11	401.93	241.65	160.28	2.508
7,900.00	5,686.00	5,602.00	5,602.00	50.68	113.41	90.00	1,431.50	1,555.11	442.81	280.19	162.61	2.723
8,000.00	5,686.00	5,602.00	5,602.00	50.15	113.41	90.00	1,431.50	1,555.11	500.61	337.32	163.29	3.066
8,100.00	5,686.00	5,602.00	5,602.00	49.64	113.41	90.00	1,431.50	1,555.11	570.22	407.17	163.05	3.497
8,200.00	5,686.00	5,602.00	5,602.00	49.17	113.41	90.00	1,431.50	1,555.11	647.83	485.41	162.42	3.989
8,300.00	5,686.00	5,602.00	5,602.00	48.71	113.41	90.00	1,431.50	1,555.11	730.90	569.25	161.66	4.521
8,400.00	5,686.00	5,602.00	5,602.00	48.28	113.41	90.00	1,431.50	1,555.11	817.77	656.88	160.90	5.083
8,500.00	5,686.00	5,602.00	5,602.00	47.88	113.41	90.00	1,431.50	1,555.11	907.35	747.17	160.19	5.664
8,600.00	5,686.00	5,602.00	5,602.00	47.51	113.41	90.00	1,431.50	1,555.11	998.91	839.37	159.54	6.261
8,700.00	5,686.00	5,602.00	5,602.00	47.16	113.41	90.00	1,431.50	1,555.11	1,091.95	932.98	158.97	6.869
8,800.00	5,686.00	5,602.00	5,602.00	46.84	113.41	90.00	1,431.50	1,555.11	1,186.12	1,027.67	158.46	7.485
8,900.00	5,686.00	5,602.00	5,602.00	46.56	113.41	90.00	1,431.50	1,555.11	1,281.18	1,123.18	158.00	8.109
9,000.00	5,686.00	5,602.00	5,602.00	46.31	113.41	90.00	1,431.50	1,555.11	1,376.94	1,219.34	157.60	8.737
9,100.00	5,686.00	5,602.00	5,602.00	46.12	113.41	90.00	1,431.50	1,555.11	1,473.26	1,316.02	157.24	9.370
9,200.00	5,686.00	5,602.00	5,602.00	45.98	113.41	90.00	1,431.50	1,555.11	1,570.04	1,413.13	156.91	10.006
9,300.00	5,686.00	5,602.00	5,602.00	45.93	113.41	90.00	1,431.50	1,555.11	1,667.20	1,510.58	156.62	10.645
9,400.00	5,686.00	5,602.00	5,602.00	46.00	113.41	90.00	1,431.50	1,555.11	1,764.68	1,608.32	156.36	11.286
9,500.00	5,686.00	5,602.00	5,602.00	46.23	113.41	90.00	1,431.50	1,555.11	1,862.43	1,706.30	156.12	11.929
9,600.00	5,686.00	5,602.00	5,602.00	46.66	113.41	90.00	1,431.50	1,555.11	1,960.40	1,804.49	155.91	12.574
9,700.00	5,686.00	5,602.00	5,602.00	47.29	113.41	90.00	1,431.50	1,555.11	2,058.57	1,902.86	155.71	13.221
9,800.00	5,686.00	5,602.00	5,602.00	48.12	113.41	90.00	1,431.50	1,555.11	2,156.90	2,001.37	155.53	13.868
9,900.00	5,686.00	5,602.00	5,602.00	49.08	113.41	90.00	1,431.50	1,555.11	2,255.39	2,100.02	155.37	14.517
10,000.00	5,686.00	5,602.00	5,602.00	50.16	113.41	90.00	1,431.50	1,555.11	2,354.00	2,198.78	155.21	15.166
10,100.00	5,686.00	5,602.00	5,602.00	51.32	113.41	90.00	1,431.50	1,555.11	2,452.72	2,297.65	155.08	15.816
10,200.00	5,686.00	5,602.00	5,602.00	52.53	113.41	90.00	1,431.50	1,555.11	2,551.54	2,396.60	154.95	16.467
10,300.00	5,686.00	5,602.00	5,602.00	53.79	113.41	90.00	1,431.50	1,555.11	2,650.45	2,495.63	154.83	17.119
10,400.00	5,686.00	5,602.00	5,602.00	55.09	113.41	90.00	1,431.50	1,555.11	2,749.44	2,594.73	154.72	17.771
10,500.00	5,686.00	5,602.00	5,602.00	56.42	113.41	90.00	1,431.50	1,555.11	2,848.50	2,693.89	154.62	18.423
10,600.00	5,686.00	5,602.00	5,602.00	57.77	113.41	90.00	1,431.50	1,555.11	2,947.63	2,793.10	154.52	19.076
10,700.00	5,686.00	5,602.00	5,602.00	59.15	113.41	90.00	1,431.50	1,555.11	3,046.81	2,892.37	154.44	19.729
10,800.00	5,686.00	5,602.00	5,602.00	60.55	113.41	90.00	1,431.50	1,555.11	3,146.04	2,991.69	154.36	20.382
10,900.00	5,686.00	5,602.00	5,602.00	61.97	113.41	90.00	1,431.50	1,555.11	3,245.32	3,091.04	154.28	21.035

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - ABDN VERT INGRAM #1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program:		0-INC						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	
0.00	0.00	0.00	0.00	0.00	0.00	61.51	1,560.60	2,876.05	3,273.01					
100.00	100.00	26.00	26.00	0.14	0.32	61.51	1,560.60	2,876.05	3,272.17	3,271.71	0.47	7,032.229		
200.00	200.00	126.00	126.00	0.50	1.83	61.51	1,560.60	2,876.05	3,272.17	3,269.84	2.33	1,402.525		
300.00	300.00	226.00	226.00	0.86	4.06	61.51	1,560.60	2,876.05	3,272.17	3,267.25	4.92	665.134		
400.00	400.00	326.00	326.00	1.22	6.13	61.51	1,560.60	2,876.05	3,272.17	3,264.83	7.35	445.414		
500.00	500.00	426.00	426.00	1.58	8.17	61.51	1,560.60	2,876.05	3,272.17	3,262.43	9.74	335.833		
600.00	600.00	526.00	526.00	1.94	10.19	61.51	1,560.60	2,876.05	3,272.17	3,260.05	12.13	269.775		
700.00	700.00	626.00	626.00	2.29	12.22	61.51	1,560.60	2,876.05	3,272.17	3,257.66	14.51	225.518		
800.00	800.00	726.00	726.00	2.65	14.23	61.51	1,560.60	2,876.05	3,272.17	3,255.29	16.89	193.771		
900.00	900.00	826.00	826.00	3.01	16.25	61.51	1,560.60	2,876.05	3,272.17	3,252.91	19.26	169.877		
1,000.00	1,000.00	926.00	926.00	3.37	18.27	61.51	1,560.60	2,876.05	3,272.17	3,250.54	21.64	151.238		
1,100.00	1,100.00	1,026.00	1,026.00	3.73	20.28	61.51	1,560.60	2,876.05	3,272.17	3,248.17	24.01	136.289		
1,200.00	1,200.00	1,126.00	1,126.00	4.09	22.29	61.51	1,560.60	2,876.05	3,272.17	3,245.79	26.38	124.033		
1,300.00	1,300.00	1,226.00	1,226.00	4.45	24.31	61.51	1,560.60	2,876.05	3,272.17	3,243.42	28.75	113.802		
1,400.00	1,399.95	1,325.95	1,325.95	4.80	26.32	28.97	1,560.60	2,876.05	3,269.88	3,238.76	31.12	105.066		
1,500.00	1,499.63	1,425.63	1,425.63	5.16	28.33	29.14	1,560.60	2,876.05	3,263.02	3,229.54	33.49	97.447		
1,600.00	1,598.77	1,524.77	1,524.77	5.52	30.32	29.42	1,560.60	2,876.05	3,251.61	3,215.77	35.84	90.732		
1,700.00	1,697.08	1,623.08	1,623.08	5.90	32.30	29.82	1,560.60	2,876.05	3,235.71	3,197.53	38.18	84.757		
1,800.00	1,794.31	1,720.31	1,720.31	6.30	34.26	30.34	1,560.60	2,876.05	3,215.37	3,174.87	40.50	79.396		
1,900.00	1,890.18	1,816.18	1,816.18	6.73	36.19	30.98	1,560.60	2,876.05	3,190.67	3,147.87	42.80	74.549		
2,000.00	1,984.43	1,910.43	1,910.43	7.20	38.08	31.76	1,560.60	2,876.05	3,161.73	3,116.65	45.08	70.136		
2,100.00	2,076.81	2,002.81	2,002.81	7.73	39.94	32.69	1,560.60	2,876.05	3,128.66	3,081.33	47.34	66.091		
2,200.00	2,167.06	2,093.06	2,093.06	8.33	41.76	33.77	1,560.60	2,876.05	3,091.61	3,042.03	49.57	62.363		
2,300.00	2,254.93	2,180.93	2,180.93	8.99	43.52	35.01	1,560.60	2,876.05	3,050.71	2,998.93	51.79	58.910		
2,400.00	2,340.18	2,266.18	2,266.18	9.74	45.24	36.43	1,560.60	2,876.05	3,006.17	2,952.19	53.98	55.694		
2,500.00	2,422.59	2,348.59	2,348.59	10.56	46.90	38.04	1,560.60	2,876.05	2,958.16	2,902.02	56.14	52.689		
2,600.00	2,501.91	2,427.91	2,427.91	11.47	48.49	39.86	1,560.60	2,876.05	2,906.92	2,848.62	58.29	49.868		
2,700.00	2,577.95	2,503.95	2,503.95	12.47	50.02	41.89	1,560.60	2,876.05	2,852.66	2,792.24	60.42	47.211		
2,799.34	2,650.00	2,576.00	2,576.00	13.55	51.47	44.14	1,560.60	2,876.05	2,796.04	2,733.51	62.52	44.719		
2,800.00	2,650.47	2,576.47	2,576.47	13.55	51.48	44.14	1,560.60	2,876.05	2,795.65	2,733.11	62.54	44.702		
2,900.00	2,721.21	2,647.21	2,647.21	14.70	52.90	45.04	1,560.60	2,876.05	2,737.67	2,673.00	64.67	42.332		
3,000.00	2,791.95	2,717.95	2,717.95	15.87	54.33	45.96	1,560.60	2,876.05	2,680.29	2,613.44	66.85	40.093		
3,100.00	2,862.68	2,788.68	2,788.68	17.07	55.75	46.91	1,560.60	2,876.05	2,623.57	2,554.49	69.08	37.977		
3,200.00	2,933.42	2,859.42	2,859.42	18.29	57.17	47.89	1,560.60	2,876.05	2,567.54	2,496.18	71.37	35.977		
3,300.00	3,004.15	2,930.15	2,930.15	19.53	58.59	48.90	1,560.60	2,876.05	2,512.25	2,438.55	73.70	34.088		
3,400.00	3,074.89	3,000.89	3,000.89	20.77	60.02	49.94	1,560.60	2,876.05	2,457.75	2,381.67	76.08	32.304		
3,500.00	3,145.62	3,071.62	3,071.62	22.03	61.44	51.02	1,560.60	2,876.05	2,404.09	2,325.57	78.51	30.620		
3,600.00	3,216.36	3,142.36	3,142.36	23.30	62.86	52.13	1,560.60	2,876.05	2,351.33	2,270.33	81.00	29.029		
3,700.00	3,287.09	3,213.09	3,213.09	24.57	64.28	53.28	1,560.60	2,876.05	2,299.53	2,216.00	83.53	27.528		
3,800.00	3,357.83	3,283.83	3,283.83	25.85	65.71	54.46	1,560.60	2,876.05	2,248.77	2,162.65	86.12	26.112		
3,900.00	3,428.56	3,354.56	3,354.56	27.14	67.13	55.68	1,560.60	2,876.05	2,199.10	2,110.34	88.76	24.776		
4,000.00	3,499.30	3,425.30	3,425.30	28.43	68.55	56.93	1,560.60	2,876.05	2,150.61	2,059.16	91.45	23.517		
4,100.00	3,570.03	3,496.03	3,496.03	29.73	69.98	58.22	1,560.60	2,876.05	2,103.38	2,009.19	94.19	22.331		
4,200.00	3,640.77	3,566.77	3,566.77	31.03	71.40	59.55	1,560.60	2,876.05	2,057.49	1,960.51	96.99	21.214		
4,300.00	3,711.50	3,637.50	3,637.50	32.33	72.82	60.91	1,560.60	2,876.05	2,013.04	1,913.21	99.83	20.164		
4,400.00	3,782.24	3,708.24	3,708.24	33.64	74.24	62.31	1,560.60	2,876.05	1,970.13	1,867.40	102.73	19.178		
4,500.00	3,852.97	3,778.97	3,778.97	34.95	75.67	63.75	1,560.60	2,876.05	1,928.85	1,823.18	105.67	18.253		
4,600.00	3,923.71	3,849.71	3,849.71	36.26	77.09	65.22	1,560.60	2,876.05	1,889.31	1,780.65	108.66	17.387		
4,700.00	3,994.44	3,920.44	3,920.44	37.57	78.51	66.73	1,560.60	2,876.05	1,851.63	1,739.93	111.70	16.578		
4,800.00	4,065.18	3,991.18	3,991.18	38.88	79.93	68.28	1,560.60	2,876.05	1,815.92	1,701.15	114.77	15.823		
4,900.00	4,135.92	4,061.92	4,061.92	40.20	81.36	69.86	1,560.60	2,876.05	1,782.30	1,664.42	117.87	15.121		
5,000.00	4,206.65	4,132.65	4,132.65	41.52	82.78	71.47	1,560.60	2,876.05	1,750.88	1,629.88	121.00	14.470		

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - ABDN VERT INGRAM #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		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)		
5,100.00	4,277.39	4,203.39	4,203.39	42.84	84.20	73.11	1,560.60	2,876.05	1,721.80	1,597.65	124.16	13.868	
5,200.00	4,348.12	4,274.12	4,274.12	44.16	85.62	74.79	1,560.60	2,876.05	1,695.17	1,567.85	127.32	13.314	
5,300.00	4,418.86	4,344.86	4,344.86	45.48	87.05	76.48	1,560.60	2,876.05	1,671.11	1,540.62	130.48	12.807	
5,400.00	4,489.59	4,415.59	4,415.59	46.80	88.47	78.21	1,560.60	2,876.05	1,649.72	1,516.08	133.64	12.345	
5,500.00	4,560.33	4,486.33	4,486.33	48.12	89.89	79.95	1,560.60	2,876.05	1,631.12	1,494.35	136.77	11.926	
5,600.00	4,631.06	4,557.06	4,557.06	49.45	91.31	81.72	1,560.60	2,876.05	1,615.41	1,475.53	139.87	11.549	
5,700.00	4,701.80	4,627.80	4,627.80	50.77	92.74	83.50	1,560.60	2,876.05	1,602.65	1,459.72	142.93	11.213	
5,800.00	4,772.53	4,698.53	4,698.53	52.10	94.16	85.29	1,560.60	2,876.05	1,592.94	1,447.01	145.94	10.915	
5,900.00	4,843.27	4,769.27	4,769.27	53.42	95.58	87.09	1,560.60	2,876.05	1,586.32	1,437.45	148.87	10.656	
5,954.41	4,881.76	4,807.76	4,807.76	54.14	96.36	88.08	1,560.60	2,876.05	1,584.03	1,433.60	150.44	10.530	
6,000.00	4,914.92	4,840.92	4,840.92	54.73	97.02	85.37	1,560.60	2,876.05	1,581.64	1,429.91	151.73	10.424	
6,050.00	4,953.22	4,879.22	4,879.22	55.35	97.79	81.49	1,560.60	2,876.05	1,576.95	1,423.82	153.14	10.298	
6,100.00	4,993.27	4,919.27	4,919.27	55.92	98.60	76.51	1,560.60	2,876.05	1,569.99	1,415.46	154.52	10.160	
6,150.00	5,034.75	4,960.75	4,960.75	56.45	99.43	70.30	1,560.60	2,876.05	1,560.64	1,404.77	155.87	10.012	
6,200.00	5,077.34	5,003.34	5,003.34	56.91	100.29	62.79	1,560.60	2,876.05	1,548.84	1,391.65	157.19	9.853	
6,250.00	5,120.74	5,046.74	5,046.74	57.32	101.16	54.03	1,560.60	2,876.05	1,534.55	1,376.09	158.46	9.684	
6,300.00	5,164.59	5,090.59	5,090.59	57.67	102.04	44.28	1,560.60	2,876.05	1,517.74	1,358.07	159.67	9.505	
6,350.00	5,208.58	5,134.58	5,134.58	57.94	102.93	33.99	1,560.60	2,876.05	1,498.45	1,337.62	160.83	9.317	
6,400.00	5,252.36	5,178.36	5,178.36	58.15	103.81	23.63	1,560.60	2,876.05	1,476.72	1,314.80	161.92	9.120	
6,450.00	5,295.61	5,221.61	5,221.61	58.30	104.68	13.59	1,560.60	2,876.05	1,452.65	1,289.71	162.94	8.915	
6,500.00	5,337.99	5,263.99	5,263.99	58.38	105.53	4.06	1,560.60	2,876.05	1,426.36	1,262.48	163.88	8.704	
6,550.00	5,379.18	5,305.18	5,305.18	58.40	106.36	-4.95	1,560.60	2,876.05	1,398.05	1,233.31	164.74	8.486	
6,600.00	5,418.87	5,344.87	5,344.87	58.36	107.16	-13.55	1,560.60	2,876.05	1,367.92	1,202.40	165.52	8.265	
6,650.00	5,456.75	5,382.75	5,382.75	58.27	107.92	-21.90	1,560.60	2,876.05	1,336.23	1,170.04	166.19	8.040	
6,700.00	5,492.54	5,418.54	5,418.54	58.14	108.64	-30.11	1,560.60	2,876.05	1,303.30	1,136.53	166.77	7.815	
6,750.00	5,525.96	5,451.96	5,451.96	57.96	109.31	-38.24	1,560.60	2,876.05	1,269.47	1,102.23	167.23	7.591	
6,800.00	5,556.77	5,482.77	5,482.77	57.74	109.93	-46.27	1,560.60	2,876.05	1,235.13	1,067.56	167.57	7.371	
6,850.00	5,584.72	5,510.72	5,510.72	57.49	110.49	-54.08	1,560.60	2,876.05	1,200.74	1,032.96	167.78	7.157	
6,900.00	5,609.61	5,535.61	5,535.61	57.20	110.99	-61.48	1,560.60	2,876.05	1,166.77	998.92	167.85	6.951	
6,950.00	5,631.24	5,557.24	5,557.24	56.90	111.43	-68.29	1,560.60	2,876.05	1,133.73	965.98	167.75	6.758	
7,000.00	5,649.44	5,575.44	5,575.44	56.57	111.79	-74.33	1,560.60	2,876.05	1,102.16	934.68	167.48	6.581	
7,050.00	5,664.09	5,590.09	5,590.09	56.22	112.09	-79.49	1,560.60	2,876.05	1,072.64	905.60	167.03	6.422	
7,100.00	5,675.07	5,601.07	5,601.07	55.87	112.31	-83.71	1,560.60	2,876.05	1,045.70	879.32	166.39	6.285	
7,150.00	5,682.29	5,608.29	5,608.29	55.50	112.45	-86.98	1,560.60	2,876.05	1,021.90	856.36	165.54	6.173	
7,200.00	5,685.71	5,611.71	5,611.71	55.14	112.52	-89.33	1,560.60	2,876.05	1,001.72	837.22	164.49	6.090	
7,219.51	5,686.00	5,612.00	5,612.00	54.99	112.53	-90.00	1,560.60	2,876.05	994.92	830.89	164.03	6.065	
7,300.00	5,686.00	5,612.00	5,612.00	54.42	112.53	-90.00	1,560.60	2,876.05	971.14	809.20	161.94	5.997	
7,400.00	5,686.00	5,612.00	5,612.00	53.72	112.53	-90.00	1,560.60	2,876.05	950.31	791.28	159.03	5.975 SF	
7,500.00	5,686.00	5,612.00	5,612.00	53.06	112.53	-90.00	1,560.60	2,876.05	939.72	783.82	155.89	6.028 ES	
7,550.13	5,686.00	5,612.00	5,612.00	52.74	112.53	-90.00	1,560.60	2,876.05	938.38	784.09	154.29	6.082 CC	
7,600.00	5,686.00	5,612.00	5,612.00	52.42	112.53	-90.00	1,560.60	2,876.05	939.70	787.01	152.69	6.154	
7,700.00	5,686.00	5,612.00	5,612.00	51.82	112.53	-90.00	1,560.60	2,876.05	950.27	800.61	149.66	6.349	
7,800.00	5,686.00	5,612.00	5,612.00	51.23	112.53	-90.00	1,560.60	2,876.05	971.07	824.04	147.03	6.604	
7,900.00	5,686.00	5,612.00	5,612.00	50.68	112.53	-90.00	1,560.60	2,876.05	1,001.48	856.49	144.99	6.907	
8,000.00	5,686.00	5,612.00	5,612.00	50.15	112.53	-90.00	1,560.60	2,876.05	1,040.64	897.01	143.63	7.245	
8,100.00	5,686.00	5,612.00	5,612.00	49.64	112.53	-90.00	1,560.60	2,876.05	1,087.62	944.66	142.95	7.608	
8,200.00	5,686.00	5,612.00	5,612.00	49.17	112.53	-90.00	1,560.60	2,876.05	1,141.44	998.57	142.87	7.990	
8,300.00	5,686.00	5,612.00	5,612.00	48.71	112.53	-90.00	1,560.60	2,876.05	1,201.19	1,057.96	143.23	8.387	
8,400.00	5,686.00	5,612.00	5,612.00	48.28	112.53	-90.00	1,560.60	2,876.05	1,266.03	1,122.13	143.89	8.798	
8,500.00	5,686.00	5,612.00	5,612.00	47.88	112.53	-90.00	1,560.60	2,876.05	1,335.22	1,190.47	144.75	9.224	
8,600.00	5,686.00	5,612.00	5,612.00	47.51	112.53	-90.00	1,560.60	2,876.05	1,408.11	1,262.42	145.70	9.665	
8,700.00	5,686.00	5,612.00	5,612.00	47.16	112.53	-90.00	1,560.60	2,876.05	1,484.17	1,337.49	146.67	10.119	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - ABDN VERT INGRAM #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		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)		
8,800.00	5,686.00	5,612.00	5,612.00	46.84	112.53	-90.00	1,560.60	2,876.05	1,562.92	1,415.28	147.64	10.586	
8,900.00	5,686.00	5,612.00	5,612.00	46.56	112.53	-90.00	1,560.60	2,876.05	1,643.99	1,495.41	148.58	11.065	
9,000.00	5,686.00	5,612.00	5,612.00	46.31	112.53	-90.00	1,560.60	2,876.05	1,727.04	1,577.58	149.47	11.555	
9,100.00	5,686.00	5,612.00	5,612.00	46.12	112.53	-90.00	1,560.60	2,876.05	1,811.81	1,661.51	150.30	12.055	
9,200.00	5,686.00	5,612.00	5,612.00	45.98	112.53	-90.00	1,560.60	2,876.05	1,898.06	1,746.98	151.08	12.563	
9,300.00	5,686.00	5,612.00	5,612.00	45.93	112.53	-90.00	1,560.60	2,876.05	1,985.60	1,833.80	151.80	13.080	
9,400.00	5,686.00	5,612.00	5,612.00	46.00	112.53	-90.00	1,560.60	2,876.05	2,074.26	1,921.79	152.47	13.604	
9,500.00	5,686.00	5,612.00	5,612.00	46.23	112.53	-90.00	1,560.60	2,876.05	2,163.92	2,010.82	153.10	14.134	
9,600.00	5,686.00	5,612.00	5,612.00	46.66	112.53	-90.00	1,560.60	2,876.05	2,254.44	2,100.77	153.67	14.670	
9,700.00	5,686.00	5,612.00	5,612.00	47.29	112.53	-90.00	1,560.60	2,876.05	2,345.74	2,191.53	154.21	15.212	
9,800.00	5,686.00	5,612.00	5,612.00	48.12	112.53	-90.00	1,560.60	2,876.05	2,437.72	2,283.01	154.70	15.757	
9,900.00	5,686.00	5,612.00	5,612.00	49.08	112.53	-90.00	1,560.60	2,876.05	2,530.30	2,375.14	155.17	16.307	
10,000.00	5,686.00	5,612.00	5,612.00	50.16	112.53	-90.00	1,560.60	2,876.05	2,623.44	2,467.84	155.60	16.860	
10,100.00	5,686.00	5,612.00	5,612.00	51.32	112.53	-90.00	1,560.60	2,876.05	2,717.05	2,561.06	156.00	17.417	
10,200.00	5,686.00	5,612.00	5,612.00	52.53	112.53	-90.00	1,560.60	2,876.05	2,811.11	2,654.74	156.37	17.977	
10,300.00	5,686.00	5,612.00	5,612.00	53.79	112.53	-90.00	1,560.60	2,876.05	2,905.57	2,748.85	156.72	18.540	
10,400.00	5,686.00	5,612.00	5,612.00	55.09	112.53	-90.00	1,560.60	2,876.05	3,000.38	2,843.33	157.05	19.105	
10,500.00	5,686.00	5,612.00	5,612.00	56.42	112.53	-90.00	1,560.60	2,876.05	3,095.53	2,938.17	157.36	19.672	
10,600.00	5,686.00	5,612.00	5,612.00	57.77	112.53	-90.00	1,560.60	2,876.05	3,190.96	3,033.32	157.65	20.241	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ ELLIE #LD26-615 - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 1881-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	
13,800.00	5,686.00	14,833.24	5,735.94	107.44	250.41	-10.68	-7,948.41	1,965.28	3,258.70	2,966.89	291.80	11.168	
13,900.00	5,686.00	14,832.74	5,735.94	109.09	250.40	-10.31	-7,948.42	1,964.78	3,158.72	2,866.94	291.78	10.826	
14,000.00	5,686.00	14,832.25	5,735.95	110.75	250.38	-9.94	-7,948.42	1,964.29	3,058.75	2,766.99	291.76	10.484	
14,100.00	5,686.00	14,831.76	5,735.95	112.41	250.37	-9.57	-7,948.42	1,963.79	2,958.78	2,667.04	291.74	10.142	
14,200.00	5,686.00	14,831.27	5,735.96	114.08	250.36	-9.20	-7,948.43	1,963.30	2,858.82	2,567.10	291.72	9.800	
14,300.00	5,686.00	14,830.78	5,735.96	115.74	250.34	-8.83	-7,948.43	1,962.82	2,758.85	2,467.16	291.69	9.458	
14,400.00	5,686.00	14,830.29	5,735.97	117.41	250.33	-8.46	-7,948.43	1,962.33	2,658.89	2,367.22	291.67	9.116	
14,500.00	5,686.00	14,829.81	5,735.98	119.09	250.32	-8.10	-7,948.43	1,961.85	2,558.93	2,267.29	291.64	8.774	
14,578.25	5,686.00	14,829.44	5,735.98	120.40	250.31	-7.82	-7,948.44	1,961.48	2,480.72	2,189.10	291.62	8.507	
14,580.87	5,686.00	14,829.42	5,735.98	120.44	250.31	-10.37	-7,948.44	1,961.46	2,478.09	2,186.48	291.62	8.498	
14,600.00	5,686.00	14,829.30	5,735.98	120.76	250.30	-10.29	-7,948.44	1,961.34	2,458.98	2,167.37	291.61	8.432	
14,678.08	5,686.00	14,828.82	5,735.99	122.07	250.29	-9.92	-7,948.44	1,960.86	2,380.94	2,089.36	291.58	8.166 CC, ES, SF	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ ELLIE #LD26-625 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 1921-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)		
13,200.00	5,686.00	14,844.00	5,690.21	97.59	254.26	-47.35	-7,302.08	2,080.45	3,216.52	2,922.52	294.00	10.941	
13,300.00	5,686.00	14,830.95	5,690.34	99.22	253.90	-44.36	-7,302.59	2,067.41	3,116.64	2,822.96	293.68	10.612	
13,400.00	5,686.00	14,827.93	5,690.37	100.86	253.82	-43.62	-7,302.71	2,064.39	3,016.79	2,723.26	293.53	10.277	
13,500.00	5,686.00	14,824.87	5,690.40	102.50	253.74	-42.85	-7,302.83	2,061.33	2,916.94	2,623.57	293.38	9.943	
13,600.00	5,686.00	14,821.76	5,690.43	104.14	253.65	-42.05	-7,302.96	2,058.23	2,817.10	2,523.89	293.22	9.608	
13,700.00	5,686.00	14,818.62	5,690.46	105.79	253.57	-41.21	-7,303.08	2,055.09	2,717.27	2,424.22	293.05	9.272	
13,800.00	5,686.00	14,815.42	5,690.50	107.44	253.48	-40.34	-7,303.21	2,051.90	2,617.45	2,324.56	292.88	8.937	
13,900.00	5,686.00	14,812.19	5,690.53	109.09	253.39	-39.44	-7,303.34	2,048.66	2,517.63	2,224.92	292.71	8.601	
14,000.00	5,686.00	14,808.90	5,690.57	110.75	253.30	-38.50	-7,303.48	2,045.38	2,417.82	2,125.30	292.52	8.265	
14,100.00	5,686.00	14,805.57	5,690.60	112.41	253.21	-37.51	-7,303.62	2,042.05	2,318.03	2,025.70	292.33	7.929	
14,200.00	5,686.00	14,802.19	5,690.64	114.08	253.12	-36.49	-7,303.76	2,038.67	2,218.25	1,926.12	292.13	7.593	
14,300.00	5,686.00	14,798.76	5,690.68	115.74	253.02	-35.42	-7,303.90	2,035.25	2,118.48	1,826.56	291.92	7.257	
14,400.00	5,686.00	14,795.28	5,690.71	117.41	252.93	-34.30	-7,304.05	2,031.77	2,018.73	1,727.03	291.70	6.921	
14,500.00	5,686.00	14,791.75	5,690.75	119.09	252.83	-33.14	-7,304.20	2,028.24	1,918.99	1,627.52	291.47	6.584	
14,578.25	5,686.00	14,788.95	5,690.78	120.40	252.76	-32.19	-7,304.32	2,025.45	1,840.96	1,549.69	291.27	6.320	
14,580.87	5,686.00	14,788.85	5,690.78	120.44	252.75	-33.02	-7,304.32	2,025.35	1,838.35	1,547.08	291.27	6.312	
14,600.00	5,686.00	14,788.14	5,690.79	120.76	252.73	-32.78	-7,304.35	2,024.64	1,819.28	1,528.06	291.22	6.247	
14,678.08	5,686.00	14,785.21	5,690.83	122.07	252.65	-31.78	-7,304.48	2,021.71	1,741.45	1,450.44	291.01	5.984 CC, ES, SF	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ ELLIE #LD26-635 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 1920-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)			
12,500.00	5,686.00	14,808.11	5,748.04	86.32	250.39	10.30	-6,667.80	1,938.21	3,277.77	2,986.07	291.70	11.237	
12,600.00	5,686.00	14,808.37	5,748.03	87.91	250.40	10.06	-6,667.80	1,938.48	3,177.79	2,886.09	291.71	10.894	
12,700.00	5,686.00	14,808.64	5,748.03	89.51	250.41	9.82	-6,667.80	1,938.75	3,077.81	2,786.10	291.71	10.551	
12,800.00	5,686.00	14,808.92	5,748.02	91.12	250.42	9.58	-6,667.80	1,939.02	2,977.83	2,686.12	291.72	10.208	
12,900.00	5,686.00	14,809.19	5,748.02	92.73	250.42	9.33	-6,667.80	1,939.30	2,877.86	2,586.13	291.72	9.865	
13,000.00	5,686.00	14,809.47	5,748.02	94.35	250.43	9.08	-6,667.80	1,939.57	2,777.88	2,486.15	291.73	9.522	
13,100.00	5,686.00	14,809.75	5,748.01	95.97	250.44	8.82	-6,667.80	1,939.86	2,677.91	2,386.18	291.73	9.179	
13,200.00	5,686.00	14,810.03	5,748.01	97.59	250.45	8.57	-6,667.80	1,940.14	2,577.94	2,286.21	291.73	8.837	
13,300.00	5,686.00	14,810.32	5,748.00	99.22	250.45	8.31	-6,667.80	1,940.43	2,477.97	2,186.24	291.73	8.494	
13,400.00	5,686.00	14,810.61	5,748.00	100.86	250.46	8.05	-6,667.80	1,940.72	2,378.00	2,086.28	291.72	8.152	
13,500.00	5,686.00	14,810.90	5,748.00	102.50	250.47	7.78	-6,667.80	1,941.01	2,278.04	1,986.32	291.72	7.809	
13,600.00	5,686.00	14,811.20	5,747.99	104.14	250.48	7.51	-6,667.80	1,941.30	2,178.08	1,886.37	291.71	7.467	
13,700.00	5,686.00	14,811.49	5,747.99	105.79	250.49	7.24	-6,667.80	1,941.60	2,078.12	1,786.42	291.70	7.124	
13,800.00	5,686.00	14,811.80	5,747.98	107.44	250.49	6.96	-6,667.80	1,941.90	1,978.17	1,686.49	291.68	6.782	
13,900.00	5,686.00	14,812.10	5,747.98	109.09	250.50	6.69	-6,667.80	1,942.21	1,878.22	1,586.56	291.66	6.440	
14,000.00	5,686.00	14,812.41	5,747.97	110.75	250.51	6.41	-6,667.80	1,942.52	1,778.28	1,486.65	291.63	6.098	
14,100.00	5,686.00	14,812.72	5,747.97	112.41	250.52	6.12	-6,667.81	1,942.83	1,678.34	1,386.75	291.59	5.756	
14,200.00	5,686.00	14,813.04	5,747.97	114.08	250.53	5.83	-6,667.81	1,943.14	1,578.42	1,286.87	291.54	5.414	
14,300.00	5,686.00	14,813.35	5,747.96	115.74	250.54	5.54	-6,667.81	1,943.46	1,478.50	1,187.01	291.49	5.072	
14,400.00	5,686.00	14,813.68	5,747.96	117.41	250.55	5.25	-6,667.81	1,943.78	1,378.60	1,087.18	291.42	4.731	
14,500.00	5,686.00	14,814.00	5,747.95	119.09	250.56	4.95	-6,667.81	1,944.11	1,278.71	987.38	291.33	4.389	
14,578.25	5,686.00	14,814.26	5,747.95	120.40	250.56	4.71	-6,667.81	1,944.36	1,200.56	909.31	291.24	4.122	
14,580.87	5,686.00	14,814.26	5,747.95	120.44	250.56	3.19	-6,667.81	1,944.37	1,197.94	906.69	291.24	4.113	
14,600.00	5,686.00	14,814.30	5,747.95	120.76	250.56	3.16	-6,667.81	1,944.41	1,178.83	887.62	291.22	4.048	
14,678.08	5,686.00	14,814.46	5,747.95	122.07	250.57	3.01	-6,667.81	1,944.57	1,100.88	809.77	291.11	3.782 CC, ES, SF	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ ELLIE #LD26-645 - Wellbore #1 - Wellbore #1											Offset Site Error: 0.00 usft
Survey Program: 1916-OWSG (Rev2) MWD											Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)	
11,900.00	5,686.00	14,782.88	5,685.20	76.90	249.76	15.23	-5,998.90	1,914.54	3,210.85	2,920.86	11.072
12,000.00	5,686.00	14,783.59	5,685.19	78.45	249.78	14.92	-5,998.91	1,915.26	3,110.93	2,820.95	10.728
12,100.00	5,686.00	14,784.32	5,685.18	80.01	249.80	14.61	-5,998.92	1,915.99	3,011.02	2,721.04	10.384
12,200.00	5,686.00	14,785.06	5,685.17	81.58	249.82	14.29	-5,998.92	1,916.73	2,911.12	2,621.14	10.039
12,300.00	5,686.00	14,785.82	5,685.16	83.15	249.84	13.96	-5,998.93	1,917.49	2,811.22	2,521.25	9.695
12,400.00	5,686.00	14,786.59	5,685.15	84.73	249.86	13.63	-5,998.94	1,918.26	2,711.33	2,421.38	9.351
12,500.00	5,686.00	14,787.38	5,685.15	86.32	249.88	13.28	-5,998.95	1,919.04	2,611.44	2,321.51	9.007
12,600.00	5,686.00	14,788.18	5,685.14	87.91	249.90	12.93	-5,998.95	1,919.85	2,511.57	2,221.66	8.663
12,700.00	5,686.00	14,789.00	5,685.13	89.51	249.92	12.57	-5,998.96	1,920.67	2,411.70	2,121.82	8.320
12,800.00	5,686.00	14,789.84	5,685.12	91.12	249.95	12.21	-5,998.97	1,921.50	2,311.85	2,022.00	7.976
12,900.00	5,686.00	14,790.69	5,685.11	92.73	249.97	11.83	-5,998.98	1,922.36	2,212.01	1,922.20	7.633
13,000.00	5,686.00	14,791.56	5,685.10	94.35	249.99	11.45	-5,998.99	1,923.23	2,112.18	1,822.42	7.289
13,100.00	5,686.00	14,792.45	5,685.08	95.97	250.02	11.05	-5,998.99	1,924.12	2,012.38	1,722.67	6.946
13,200.00	5,686.00	14,793.36	5,685.07	97.59	250.04	10.65	-5,999.00	1,925.03	1,912.59	1,622.95	6.603
13,300.00	5,686.00	14,794.29	5,685.06	99.22	250.07	10.24	-5,999.01	1,925.95	1,812.82	1,523.27	6.261
13,400.00	5,686.00	14,795.24	5,685.05	100.86	250.09	9.82	-5,999.02	1,926.90	1,713.08	1,423.63	5.918
13,500.00	5,686.00	14,796.21	5,685.04	102.50	250.12	9.38	-5,999.03	1,927.87	1,613.37	1,324.05	5.576
13,600.00	5,686.00	14,797.20	5,685.03	104.14	250.15	8.94	-5,999.04	1,928.86	1,513.70	1,224.52	5.235
13,700.00	5,686.00	14,798.21	5,685.02	105.79	250.18	8.48	-5,999.05	1,929.87	1,414.07	1,125.08	4.893
13,800.00	5,686.00	14,799.25	5,685.00	107.44	250.20	8.02	-5,999.06	1,930.91	1,314.50	1,025.73	4.552
13,900.00	5,686.00	14,800.31	5,684.99	109.09	250.23	7.54	-5,999.08	1,931.97	1,215.00	926.50	4.211
14,000.00	5,686.00	14,801.39	5,684.98	110.75	250.26	7.05	-5,999.09	1,933.06	1,115.59	827.43	3.871
14,100.00	5,686.00	14,802.50	5,684.97	112.41	250.29	6.55	-5,999.10	1,934.17	1,016.29	728.56	3.532
14,200.00	5,686.00	14,803.64	5,684.95	114.08	250.32	6.03	-5,999.11	1,935.30	917.14	629.97	3.194
14,300.00	5,686.00	14,804.81	5,684.94	115.74	250.36	5.50	-5,999.13	1,936.47	818.20	531.75	2.856
14,400.00	5,686.00	14,806.00	5,684.92	117.41	250.39	4.96	-5,999.14	1,937.66	719.55	434.08	2.521
14,500.00	5,686.00	14,807.22	5,684.91	119.09	250.42	4.40	-5,999.16	1,938.88	621.33	337.24	2.187
14,578.25	5,686.00	14,808.20	5,684.90	120.40	250.45	3.96	-5,999.17	1,939.86	544.92	262.34	1.928
14,580.87	5,686.00	14,808.23	5,684.90	120.44	250.45	3.61	-5,999.17	1,939.89	542.37	259.85	1.920
14,600.00	5,686.00	14,808.45	5,684.90	120.76	250.45	3.51	-5,999.17	1,940.11	523.78	241.72	1.857
14,678.08	5,686.00	14,809.35	5,684.88	122.07	250.48	3.10	-5,999.18	1,941.01	448.36	168.66	1.603 CC, ES, SF

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ FISCUS FED #LD23-78HN - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 244-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)			
0.00	0.00	60.26	60.26	0.00	0.10	-158.45	-2,896.49	-1,144.13	3,114.29				
100.00	100.00	145.14	145.14	0.14	0.24	-158.45	-2,896.95	-1,144.32	3,114.88	3,114.50	0.38	8,209.670	
200.00	200.00	244.00	243.99	0.50	0.40	-158.45	-2,897.96	-1,144.75	3,115.99	3,115.09	0.90	3,474.213	
300.00	300.00	337.54	337.53	0.86	0.73	-158.44	-2,899.01	-1,145.25	3,117.21	3,115.62	1.59	1,961.727	
400.00	400.00	449.56	449.54	1.22	1.13	-158.44	-2,899.84	-1,145.84	3,118.09	3,115.74	2.35	1,328.981	
500.00	500.00	561.58	561.56	1.58	1.53	-158.43	-2,900.21	-1,146.41	3,118.58	3,115.48	3.10	1,004.893	
600.00	600.00	654.71	654.69	1.94	1.86	-158.43	-2,900.47	-1,146.84	3,119.01	3,115.22	3.79	821.998	
700.00	700.00	772.08	772.05	2.29	2.28	-158.42	-2,900.89	-1,147.23	3,119.51	3,114.94	4.57	683.250	
780.89	780.89	851.93	851.90	2.58	2.55	-158.42	-2,900.59	-1,147.41	3,119.29	3,114.16	5.13	607.793	
800.00	800.00	865.56	865.54	2.65	2.60	-158.42	-2,900.57	-1,147.48	3,119.31	3,114.06	5.25	594.382	
900.00	900.00	954.40	954.37	3.01	2.91	-158.41	-2,900.85	-1,148.04	3,119.81	3,113.89	5.92	527.172	
1,000.00	1,000.00	1,065.01	1,064.98	3.37	3.30	-158.42	-2,901.39	-1,147.81	3,120.18	3,113.52	6.66	468.375	
1,100.00	1,100.00	1,169.53	1,169.50	3.73	3.66	-158.42	-2,901.66	-1,147.40	3,120.28	3,112.90	7.38	422.660	
1,200.00	1,200.00	1,247.66	1,247.63	4.09	3.93	-158.42	-2,901.81	-1,147.77	3,120.64	3,112.63	8.02	389.242	
1,300.00	1,300.00	1,382.36	1,382.32	4.45	4.40	-158.41	-2,901.95	-1,148.57	3,121.00	3,112.15	8.85	352.848	
1,306.52	1,306.52	1,388.02	1,387.99	4.47	4.42	169.00	-2,901.92	-1,148.58	3,120.99	3,112.10	8.89	351.143	
1,400.00	1,399.95	1,475.56	1,475.52	4.80	4.73	169.00	-2,901.64	-1,148.93	3,123.40	3,113.88	9.52	327.929	
1,500.00	1,499.63	1,592.55	1,592.51	5.16	5.13	168.99	-2,901.03	-1,148.68	3,130.51	3,120.23	10.28	304.398	
1,600.00	1,598.77	1,679.56	1,679.51	5.52	5.42	168.96	-2,900.55	-1,148.57	3,142.78	3,131.84	10.94	287.228	
1,700.00	1,697.08	1,758.93	1,758.89	5.90	5.70	168.89	-2,900.81	-1,147.92	3,160.67	3,149.10	11.58	273.047	
1,800.00	1,794.31	1,839.54	1,839.49	6.30	5.98	168.81	-2,901.48	-1,147.44	3,184.14	3,171.92	12.22	260.664	
1,900.00	1,890.18	1,933.00	1,932.95	6.73	6.30	168.72	-2,902.13	-1,147.27	3,212.59	3,199.69	12.90	248.964	
2,000.00	1,984.43	2,008.29	2,008.23	7.20	6.57	168.59	-2,903.08	-1,146.70	3,246.28	3,232.75	13.53	239.968	
2,900.00	2,721.21	8,998.78	5,701.93	14.70	64.27	-155.92	435.32	-1,142.23	3,266.64	3,219.94	46.69	69.961	
3,000.00	2,791.95	9,139.05	5,703.78	15.87	66.66	-153.86	575.54	-1,144.84	3,223.07	3,173.35	49.72	64.823	
3,100.00	2,862.68	9,192.30	5,703.68	17.07	67.57	-153.06	628.78	-1,145.65	3,179.75	3,127.83	51.92	61.242	
3,200.00	2,933.42	9,257.00	5,702.96	18.29	68.68	-152.06	693.44	-1,147.76	3,137.99	3,083.63	54.37	57.717	
3,300.00	3,004.15	9,342.54	5,700.71	19.53	70.15	-150.70	778.86	-1,151.75	3,097.54	3,040.34	57.20	54.149	
3,400.00	3,074.89	9,482.10	5,696.66	20.77	72.55	-148.47	918.33	-1,154.02	3,057.76	2,996.97	60.80	50.296	
3,500.00	3,145.62	9,543.71	5,694.66	22.03	73.61	-147.49	979.90	-1,153.49	3,018.68	2,955.16	63.51	47.527	
3,600.00	3,216.36	9,597.00	5,693.51	23.30	74.52	-146.64	1,033.17	-1,152.48	2,981.47	2,915.26	66.21	45.033	
3,700.00	3,287.09	9,690.61	5,691.75	24.57	76.11	-145.14	1,126.72	-1,149.55	2,945.74	2,876.26	69.48	42.396	
3,800.00	3,357.83	9,726.37	5,691.07	25.85	76.73	-144.57	1,162.46	-1,148.28	2,911.60	2,839.49	72.11	40.378	
3,900.00	3,428.56	9,761.35	5,690.58	27.14	77.32	-144.00	1,197.41	-1,147.29	2,879.81	2,805.03	74.79	38.508	
4,000.00	3,499.30	9,787.00	5,690.34	28.43	77.76	-143.58	1,223.06	-1,146.72	2,850.47	2,773.09	77.38	36.839	
4,100.00	3,570.03	9,833.68	5,690.13	29.73	78.56	-142.81	1,269.74	-1,146.00	2,823.54	2,743.22	80.32	35.153	
4,200.00	3,640.77	9,882.00	5,690.22	31.03	79.39	-142.01	1,318.05	-1,145.68	2,799.20	2,715.86	83.34	33.586	
4,300.00	3,711.50	9,981.29	5,689.47	32.33	81.11	-140.35	1,417.33	-1,145.21	2,776.83	2,689.58	87.26	31.824	
4,400.00	3,782.24	10,036.14	5,688.47	33.64	82.05	-139.42	1,472.17	-1,144.83	2,755.98	2,665.46	90.52	30.447	
4,500.00	3,852.97	10,037.00	5,688.46	34.95	82.07	-139.40	1,473.03	-1,144.82	2,737.98	2,645.11	92.86	29.484	
4,600.00	3,923.71	10,037.00	5,688.46	36.26	82.07	-139.40	1,473.03	-1,144.82	2,723.53	2,628.39	95.13	28.628	
4,700.00	3,994.44	10,037.00	5,688.46	37.57	82.07	-139.40	1,473.03	-1,144.82	2,712.69	2,615.36	97.33	27.871	
4,800.00	4,065.18	10,037.00	5,688.46	38.88	82.07	-139.40	1,473.03	-1,144.82	2,705.51	2,606.07	99.44	27.209	
4,900.00	4,135.92	10,037.00	5,688.46	40.20	82.07	-139.40	1,473.03	-1,144.82	2,702.01	2,600.57	101.44	26.636	
4,944.54	4,167.42	10,037.00	5,688.46	40.79	82.07	-139.40	1,473.03	-1,144.82	2,701.65	2,599.34	102.30	26.408 CC	
5,000.00	4,206.65	10,037.00	5,688.46	41.52	82.07	-139.40	1,473.03	-1,144.82	2,702.21	2,598.87	103.34	26.148 ES	
5,100.00	4,277.39	10,037.00	5,688.46	42.84	82.07	-139.40	1,473.03	-1,144.82	2,706.11	2,600.99	105.12	25.743	
5,200.00	4,348.12	10,037.00	5,688.46	44.16	82.07	-139.40	1,473.03	-1,144.82	2,713.70	2,606.92	106.78	25.415	
5,300.00	4,418.86	10,037.00	5,688.46	45.48	82.07	-139.40	1,473.03	-1,144.82	2,724.93	2,616.63	108.30	25.161	
5,400.00	4,489.59	10,037.00	5,688.46	46.80	82.07	-139.40	1,473.03	-1,144.82	2,739.77	2,630.08	109.69	24.977	
5,500.00	4,560.33	10,037.00	5,688.46	48.12	82.07	-139.40	1,473.03	-1,144.82	2,758.16	2,647.21	110.95	24.860	
5,600.00	4,631.06	10,037.00	5,688.46	49.45	82.07	-139.40	1,473.03	-1,144.82	2,780.02	2,667.95	112.07	24.807 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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ FISCUS FED #LD23-78HN - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 244-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)			
5,700.00	4,701.80	10,037.00	5,688.46	50.77	82.07	-139.40	1,473.03	-1,144.82	2,805.28	2,692.23	113.05	24.814	
5,800.00	4,772.53	10,037.00	5,688.46	52.10	82.07	-139.40	1,473.03	-1,144.82	2,833.85	2,719.94	113.91	24.878	
5,900.00	4,843.27	10,037.00	5,688.46	53.42	82.07	-139.40	1,473.03	-1,144.82	2,865.62	2,750.98	114.64	24.997	
5,954.41	4,881.76	10,037.00	5,688.46	54.14	82.07	-139.40	1,473.03	-1,144.82	2,884.22	2,769.24	114.98	25.084	
6,000.00	4,914.92	10,037.00	5,688.46	54.73	82.07	-144.45	1,473.03	-1,144.82	2,900.27	2,785.01	115.26	25.163	
6,050.00	4,953.22	10,037.00	5,688.46	55.35	82.07	-150.73	1,473.03	-1,144.82	2,917.98	2,802.42	115.56	25.250	
6,100.00	4,993.27	10,037.00	5,688.46	55.92	82.07	-157.90	1,473.03	-1,144.82	2,935.68	2,819.82	115.87	25.337	
6,150.00	5,034.75	10,037.00	5,688.46	56.45	82.07	-166.05	1,473.03	-1,144.82	2,953.24	2,837.08	116.16	25.423	
6,200.00	5,077.34	10,037.00	5,688.46	56.91	82.07	-175.22	1,473.03	-1,144.82	2,970.52	2,854.07	116.45	25.508	
6,250.00	5,120.74	10,037.00	5,688.46	57.32	82.07	174.71	1,473.03	-1,144.82	2,987.40	2,870.67	116.73	25.592	
6,300.00	5,164.59	10,037.00	5,688.46	57.67	82.07	164.04	1,473.03	-1,144.82	3,003.76	2,886.76	117.00	25.673	
6,350.00	5,208.58	10,037.00	5,688.46	57.94	82.07	153.25	1,473.03	-1,144.82	3,019.48	2,902.22	117.26	25.751	
6,400.00	5,252.36	10,037.00	5,688.46	58.15	82.07	142.88	1,473.03	-1,144.82	3,034.45	2,916.95	117.50	25.825	
6,450.00	5,295.61	10,037.00	5,688.46	58.30	82.07	133.36	1,473.03	-1,144.82	3,048.58	2,930.84	117.74	25.893	
6,500.00	5,337.99	10,037.00	5,688.46	58.38	82.07	124.96	1,473.03	-1,144.82	3,061.76	2,943.79	117.97	25.954	
6,550.00	5,379.18	10,037.00	5,688.46	58.40	82.07	117.73	1,473.03	-1,144.82	3,073.91	2,955.72	118.20	26.007	
6,600.00	5,418.87	10,037.00	5,688.46	58.36	82.07	111.62	1,473.03	-1,144.82	3,084.96	2,966.54	118.42	26.051	
6,650.00	5,456.75	10,037.00	5,688.46	58.27	82.07	106.49	1,473.03	-1,144.82	3,094.82	2,976.18	118.64	26.085	
6,700.00	5,492.54	10,037.00	5,688.46	58.14	82.07	102.23	1,473.03	-1,144.82	3,103.43	2,984.57	118.86	26.109	
6,750.00	5,525.96	10,037.00	5,688.46	57.96	82.07	98.71	1,473.03	-1,144.82	3,110.75	2,991.66	119.09	26.122	
6,800.00	5,556.77	10,037.00	5,688.46	57.74	82.07	95.82	1,473.03	-1,144.82	3,116.71	2,997.40	119.31	26.122	
6,850.00	5,584.72	10,037.00	5,688.46	57.49	82.07	93.49	1,473.03	-1,144.82	3,121.29	3,001.75	119.54	26.110	
6,900.00	5,609.61	10,037.00	5,688.46	57.20	82.07	91.65	1,473.03	-1,144.82	3,124.46	3,004.68	119.78	26.085	
6,950.00	5,631.24	10,037.00	5,688.46	56.90	82.07	90.23	1,473.03	-1,144.82	3,126.20	3,006.18	120.02	26.047	
7,000.00	5,649.44	10,037.00	5,688.46	56.57	82.07	89.21	1,473.03	-1,144.82	3,126.49	3,006.22	120.27	25.995	
7,050.00	5,664.09	10,037.00	5,688.46	56.22	82.07	88.54	1,473.03	-1,144.82	3,125.34	3,004.81	120.53	25.930	
7,100.00	5,675.07	10,037.00	5,688.46	55.87	82.07	88.22	1,473.03	-1,144.82	3,122.75	3,001.95	120.80	25.851	
7,150.00	5,682.29	10,037.00	5,688.46	55.50	82.07	88.21	1,473.03	-1,144.82	3,118.73	2,997.67	121.07	25.761	
7,200.00	5,685.71	10,037.00	5,688.46	55.14	82.07	88.52	1,473.03	-1,144.82	3,113.32	2,991.98	121.34	25.658	
7,219.51	5,686.00	10,037.00	5,688.46	54.99	82.07	88.73	1,473.03	-1,144.82	3,110.84	2,989.39	121.45	25.614	
7,300.00	5,686.00	10,037.00	5,688.46	54.42	82.07	88.73	1,473.03	-1,144.82	3,101.19	2,979.32	121.88	25.445	
7,400.00	5,686.00	10,037.00	5,688.46	53.72	82.07	88.73	1,473.03	-1,144.82	3,092.09	2,969.74	122.35	25.272	
7,500.00	5,686.00	10,037.00	5,688.46	53.06	82.07	88.73	1,473.03	-1,144.82	3,086.20	2,963.44	122.76	25.141	
7,600.00	5,686.00	10,037.00	5,688.46	52.42	82.07	88.73	1,473.03	-1,144.82	3,083.54	2,960.45	123.10	25.050	
7,631.92	5,686.00	10,037.00	5,688.46	52.23	82.07	88.73	1,473.03	-1,144.82	3,083.38	2,960.18	123.20	25.028	
7,700.00	5,686.00	9,993.76	5,689.25	51.82	81.32	88.74	1,429.81	-1,145.13	3,083.83	2,961.52	122.31	25.214	
7,800.00	5,686.00	9,882.00	5,690.22	51.23	79.39	88.76	1,318.05	-1,145.68	3,084.45	2,964.58	119.87	25.731	
7,900.00	5,686.00	9,816.70	5,690.18	50.68	78.27	88.76	1,252.75	-1,146.22	3,085.42	2,966.78	118.64	26.006	
8,000.00	5,686.00	9,753.84	5,690.67	50.15	77.19	88.77	1,189.91	-1,147.48	3,087.56	2,970.05	117.52	26.274	
8,100.00	5,686.00	9,692.51	5,691.71	49.64	76.15	88.79	1,128.62	-1,149.48	3,090.93	2,974.46	116.47	26.538	
8,200.00	5,686.00	9,468.84	5,697.10	49.17	72.32	88.89	905.08	-1,154.03	3,093.22	2,981.39	111.83	27.660	
8,300.00	5,686.00	9,251.47	5,703.06	48.71	68.59	89.00	687.92	-1,147.54	3,089.15	2,981.78	107.37	28.772	
8,400.00	5,686.00	9,218.00	5,703.49	48.28	68.01	89.01	654.47	-1,146.36	3,086.20	2,978.92	107.28	28.766	
8,500.00	5,686.00	9,122.00	5,703.74	47.88	66.37	89.01	558.49	-1,144.77	3,084.69	2,978.86	105.82	29.150	
8,600.00	5,686.00	8,993.22	5,701.82	47.51	64.18	88.97	429.76	-1,142.08	3,082.78	2,979.07	103.71	29.726	
8,700.00	5,686.00	8,932.65	5,700.91	47.16	63.15	88.96	369.21	-1,140.89	3,080.98	2,977.81	103.18	29.862	
8,800.00	5,686.00	8,809.72	5,699.44	46.84	61.07	88.93	246.31	-1,138.50	3,079.15	2,977.78	101.37	30.374	
8,900.00	5,686.00	8,731.12	5,699.85	46.56	59.74	88.94	167.73	-1,137.23	3,077.65	2,977.06	100.59	30.595	
9,000.00	5,686.00	8,604.97	5,702.57	46.31	57.62	88.99	41.62	-1,135.20	3,076.18	2,977.27	98.92	31.098	
9,100.00	5,686.00	8,489.64	5,702.99	46.12	55.69	88.99	-73.67	-1,132.13	3,073.62	2,976.08	97.54	31.510	
9,200.00	5,686.00	8,311.76	5,705.63	45.98	52.72	89.04	-251.37	-1,124.89	3,069.58	2,974.56	95.02	32.304	
9,300.00	5,686.00	8,233.97	5,705.25	45.93	51.42	89.03	-329.05	-1,120.95	3,064.70	2,970.14	94.56	32.411	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ FISCUS FED #LD23-78HN - Wellbore #1 - Wellbore #1											Offset Site Error: 0.00 usft		
Survey Program: Reference		244-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
9,400.00	5,686.00	8,174.00	5,704.52	46.00	50.43	89.02	-388.97	-1,118.59	3,060.95	2,966.47	94.48	32.399	
9,500.00	5,686.00	8,110.37	5,704.31	46.23	49.39	89.01	-452.58	-1,116.88	3,058.43	2,964.08	94.36	32.413	
9,600.00	5,686.00	8,006.63	5,704.95	46.66	47.70	89.02	-556.30	-1,115.08	3,056.84	2,963.28	93.56	32.671	
9,700.00	5,686.00	7,859.10	5,702.71	47.29	45.31	88.98	-703.73	-1,110.24	3,053.58	2,961.52	92.06	33.169	
9,800.00	5,686.00	7,794.00	5,702.33	48.12	44.26	88.97	-768.79	-1,108.14	3,050.54	2,958.48	92.06	33.136	
9,900.00	5,686.00	7,717.76	5,702.79	49.08	43.05	88.98	-845.01	-1,106.26	3,048.28	2,956.37	91.91	33.166	
10,000.00	5,686.00	7,579.12	5,707.90	50.16	40.86	89.08	-983.49	-1,102.76	3,045.76	2,954.94	90.82	33.538	
10,100.00	5,686.00	7,493.83	5,710.80	51.32	39.53	89.13	-1,068.70	-1,100.37	3,043.05	2,952.42	90.63	33.577	
10,200.00	5,686.00	7,415.00	5,712.48	52.53	38.31	89.16	-1,147.49	-1,098.73	3,041.07	2,950.49	90.58	33.573	
10,300.00	5,686.00	7,320.01	5,714.58	53.79	36.87	89.20	-1,242.45	-1,097.17	3,039.53	2,949.19	90.34	33.647	
10,399.92	5,686.00	7,267.54	5,715.89	55.09	36.08	89.22	-1,294.89	-1,096.71	3,038.75	2,948.01	90.74	33.490	
10,400.00	5,686.00	7,267.50	5,715.89	55.09	36.08	89.22	-1,294.94	-1,096.70	3,038.75	2,948.01	90.74	33.490	
10,500.00	5,686.00	7,209.64	5,717.31	56.42	35.22	89.25	-1,352.77	-1,097.11	3,039.52	2,948.45	91.06	33.377	
10,600.00	5,686.00	7,128.64	5,718.03	57.77	34.04	89.27	-1,433.76	-1,098.39	3,041.22	2,950.11	91.11	33.378	
10,700.00	5,686.00	7,019.18	5,717.47	59.15	32.49	89.26	-1,543.20	-1,100.19	3,043.01	2,952.15	90.86	33.491	
10,800.00	5,686.00	6,930.84	5,716.81	60.55	31.26	89.24	-1,631.53	-1,101.75	3,044.93	2,954.01	90.92	33.491	
10,900.00	5,686.00	6,845.00	5,717.31	61.97	30.09	89.25	-1,717.35	-1,103.38	3,047.00	2,955.94	91.05	33.463	
11,000.00	5,686.00	6,775.70	5,718.98	63.40	29.18	89.29	-1,786.60	-1,105.22	3,049.85	2,958.44	91.42	33.362	
11,100.00	5,686.00	6,613.78	5,724.98	64.85	27.14	89.40	-1,948.32	-1,110.18	3,053.41	2,962.46	90.95	33.572	
11,200.00	5,686.00	6,466.00	5,727.59	66.32	25.41	89.45	-2,096.06	-1,110.42	3,053.48	2,962.72	90.76	33.642	
11,227.96	5,686.00	6,439.10	5,727.72	66.73	25.12	89.45	-2,122.95	-1,110.32	3,053.41	2,962.54	90.87	33.602	
11,300.00	5,686.00	6,393.81	5,727.84	67.80	24.63	89.45	-2,168.24	-1,110.45	3,053.73	2,962.39	91.33	33.436	
11,400.00	5,686.00	6,323.33	5,727.65	69.29	23.92	89.45	-2,238.72	-1,111.35	3,055.13	2,963.18	91.95	33.224	
11,500.00	5,686.00	6,218.15	5,725.10	70.79	22.92	89.40	-2,343.84	-1,113.34	3,057.20	2,964.78	92.42	33.080	
11,600.00	5,686.00	6,058.22	5,710.51	72.30	21.60	89.13	-2,503.06	-1,113.81	3,057.67	2,964.95	92.72	32.976	
11,674.38	5,686.00	5,991.00	5,699.61	73.44	21.12	88.92	-2,569.38	-1,113.37	3,057.50	2,964.22	93.28	32.779	
11,700.00	5,686.00	5,979.96	5,697.42	73.83	21.04	88.88	-2,580.20	-1,113.32	3,057.55	2,964.03	93.52	32.692	
11,800.00	5,686.00	5,936.48	5,686.79	75.36	20.77	88.68	-2,622.35	-1,113.71	3,059.05	2,964.56	94.49	32.374	
11,900.00	5,686.00	5,898.14	5,675.52	76.90	20.54	88.47	-2,658.98	-1,114.54	3,062.37	2,966.92	95.45	32.082	
12,000.00	5,686.00	5,440.00	5,402.11	78.45	18.80	83.35	-3,011.91	-1,100.45	3,067.52	2,972.52	95.00	32.290	
12,100.00	5,686.00	5,408.50	5,374.89	80.01	18.72	82.84	-3,027.29	-1,096.65	3,064.98	2,968.93	96.06	31.908	
12,138.69	5,686.00	5,393.00	5,361.23	80.62	18.68	82.58	-3,034.41	-1,094.89	3,064.82	2,968.38	96.43	31.782	
12,200.00	5,686.00	5,373.61	5,343.95	81.58	18.63	82.25	-3,042.93	-1,092.70	3,065.38	2,968.34	97.03	31.591	
12,300.00	5,686.00	5,330.50	5,304.88	83.15	18.52	81.52	-3,060.40	-1,087.57	3,068.34	2,970.44	97.90	31.341	
12,400.00	5,686.00	5,299.00	5,275.83	84.73	18.43	80.97	-3,071.98	-1,083.83	3,074.23	2,975.46	98.77	31.125	
12,500.00	5,686.00	5,299.00	5,275.83	86.32	18.43	80.97	-3,071.98	-1,083.83	3,083.10	2,983.36	99.74	30.910	
12,600.00	5,686.00	5,277.68	5,255.97	87.91	18.38	80.60	-3,079.35	-1,081.42	3,094.99	2,994.46	100.52	30.788	
12,700.00	5,686.00	5,251.00	5,230.93	89.51	18.31	80.13	-3,088.16	-1,078.66	3,110.01	3,008.80	101.20	30.730	
12,800.00	5,686.00	5,251.00	5,230.93	91.12	18.31	80.13	-3,088.16	-1,078.66	3,127.86	3,025.91	101.95	30.681	
12,900.00	5,686.00	5,251.00	5,230.93	92.73	18.31	80.13	-3,088.16	-1,078.66	3,148.79	3,046.18	102.61	30.688	
13,000.00	5,686.00	5,251.00	5,230.93	94.35	18.31	80.13	-3,088.16	-1,078.66	3,172.73	3,069.54	103.19	30.748	
13,100.00	5,686.00	5,229.44	5,210.50	95.97	18.26	79.75	-3,094.76	-1,076.68	3,199.31	3,095.72	103.59	30.884	
13,200.00	5,686.00	5,222.80	5,204.17	97.59	18.24	79.63	-3,096.67	-1,076.12	3,228.85	3,124.85	103.99	31.049	
13,300.00	5,686.00	5,204.00	5,186.12	99.22	18.19	79.29	-3,101.72	-1,074.68	3,261.23	3,156.96	104.27	31.277	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ TATANKA FED LD #13-615 - Wellbore #1 - Wellbore #1											Offset Site Error:	0.00 usft
Survey Program: 172-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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
3,200.00	2,933.42	8,135.04	5,560.59	18.29	74.07	-129.06	2,529.98	413.46	3,238.59	3,182.28	56.31	57.514
3,300.00	3,004.15	8,169.61	5,560.89	19.53	74.96	-129.42	2,530.34	448.03	3,147.14	3,090.11	57.03	55.183
3,400.00	3,074.89	8,197.00	5,561.17	20.77	75.66	-129.72	2,530.64	475.41	3,055.78	2,998.14	57.64	53.011
3,500.00	3,145.62	8,230.83	5,561.59	22.03	76.53	-130.10	2,531.08	509.23	2,964.57	2,906.21	58.36	50.800
3,600.00	3,216.36	8,259.29	5,562.04	23.30	77.26	-130.44	2,531.52	537.69	2,873.55	2,814.56	58.99	48.713
3,700.00	3,287.09	8,286.00	5,562.55	24.57	77.94	-130.77	2,531.99	564.39	2,782.74	2,723.15	59.60	46.693
3,800.00	3,357.83	8,326.05	5,563.43	25.85	78.98	-131.29	2,532.71	604.43	2,692.07	2,631.69	60.38	44.587
3,900.00	3,428.56	8,363.39	5,564.35	27.14	79.94	-131.81	2,533.32	641.74	2,601.50	2,540.40	61.10	42.575
4,000.00	3,499.30	8,395.11	5,565.22	28.43	80.76	-132.28	2,533.81	673.45	2,511.07	2,449.32	61.74	40.669
4,100.00	3,570.03	8,424.44	5,566.14	29.73	81.52	-132.74	2,534.33	702.76	2,420.89	2,358.55	62.34	38.833
4,200.00	3,640.77	8,465.00	5,567.64	31.03	82.57	-133.41	2,535.16	743.29	2,331.01	2,267.97	63.04	36.976
4,300.00	3,711.50	8,614.37	5,568.65	32.33	86.45	-136.23	2,537.57	892.59	2,239.96	2,175.15	64.81	34.562
4,400.00	3,782.24	8,705.58	5,566.05	33.64	88.84	-138.37	2,537.45	983.76	2,147.43	2,081.60	65.82	32.624
4,500.00	3,852.97	8,742.07	5,564.76	34.95	89.80	-139.36	2,537.13	1,020.22	2,054.84	1,988.60	66.25	31.018
4,600.00	3,923.71	8,772.97	5,563.67	36.26	90.61	-140.25	2,536.93	1,051.10	1,962.39	1,895.82	66.58	29.476
4,700.00	3,994.44	8,804.28	5,562.58	37.57	91.44	-141.22	2,536.82	1,082.40	1,870.14	1,803.28	66.86	27.972
4,800.00	4,065.18	8,836.16	5,561.49	38.88	92.28	-142.27	2,536.82	1,114.26	1,778.09	1,711.00	67.08	26.505
4,900.00	4,135.92	8,868.66	5,560.40	40.20	93.13	-143.42	2,536.90	1,146.74	1,686.26	1,619.01	67.24	25.077
5,000.00	4,206.65	8,901.53	5,559.33	41.52	94.00	-144.68	2,537.07	1,179.59	1,594.68	1,527.36	67.32	23.688
5,100.00	4,277.39	8,949.71	5,557.74	42.84	95.27	-146.74	2,537.17	1,227.74	1,503.26	1,435.95	67.31	22.334
5,200.00	4,348.12	9,002.08	5,555.82	44.16	96.65	-149.36	2,536.34	1,280.07	1,411.67	1,344.59	67.08	21.045
5,300.00	4,418.86	9,022.24	5,555.13	45.48	97.19	-150.48	2,535.88	1,300.22	1,320.38	1,253.65	66.73	19.787
5,400.00	4,489.59	9,043.64	5,554.59	46.80	97.76	-151.74	2,535.52	1,321.60	1,229.86	1,163.61	66.25	18.565
5,500.00	4,560.33	9,066.32	5,554.24	48.12	98.36	-153.16	2,535.27	1,344.28	1,140.22	1,074.63	65.60	17.382
5,600.00	4,631.06	9,092.00	5,554.11	49.45	99.04	-154.88	2,535.16	1,369.96	1,051.64	986.92	64.72	16.249
5,700.00	4,701.80	9,121.61	5,554.19	50.77	99.82	-157.01	2,535.23	1,399.57	964.21	900.66	63.56	15.171
5,800.00	4,772.53	9,154.49	5,554.41	52.10	100.69	-159.58	2,535.57	1,432.45	878.04	816.00	62.05	14.151
5,900.00	4,843.27	9,189.12	5,554.79	53.42	101.61	-162.53	2,536.21	1,467.06	793.45	733.27	60.18	13.185
5,954.41	4,881.76	9,209.42	5,555.06	54.14	102.14	-164.39	2,536.75	1,487.36	748.20	689.21	59.00	12.682
6,000.00	4,914.92	9,227.19	5,555.30	54.73	102.61	-163.45	2,537.33	1,505.12	710.25	652.17	58.08	12.229
6,050.00	4,953.22	9,247.91	5,555.59	55.35	103.16	-162.51	2,538.14	1,525.82	667.98	610.66	57.32	11.653
6,100.00	4,993.27	9,271.00	5,555.93	55.92	103.77	-161.74	2,539.20	1,548.88	625.14	568.34	56.80	11.005
6,150.00	5,034.75	9,292.13	5,556.27	56.45	104.32	-160.87	2,540.28	1,569.99	581.88	525.26	56.62	10.277
6,200.00	5,077.34	9,315.16	5,556.68	56.91	104.93	-160.21	2,541.51	1,592.97	538.39	481.68	56.71	9.494
6,250.00	5,120.74	9,338.59	5,557.14	57.32	105.54	-159.68	2,542.81	1,616.36	494.93	437.77	57.16	8.659
6,300.00	5,164.59	9,361.00	5,557.63	57.67	106.13	-159.36	2,544.11	1,638.73	451.85	393.71	58.14	7.772
6,350.00	5,208.58	9,384.16	5,558.23	57.94	106.74	-159.16	2,545.52	1,661.85	409.69	349.83	59.86	6.844
6,400.00	5,252.36	9,406.28	5,558.94	58.15	107.32	-159.16	2,546.95	1,683.90	369.22	306.35	62.87	5.873
6,450.00	5,295.61	9,428.26	5,559.77	58.30	107.89	-159.19	2,548.45	1,705.81	331.47	263.59	67.88	4.883
6,500.00	5,337.99	9,451.00	5,560.77	58.38	108.49	-158.94	2,550.08	1,728.48	297.91	222.11	75.80	3.930
6,550.00	5,379.18	9,470.81	5,561.75	58.40	109.01	-159.09	2,551.56	1,748.21	270.59	182.92	87.67	3.086
6,600.00	5,418.87	9,491.02	5,562.89	58.36	109.53	-158.94	2,553.11	1,768.33	252.01	149.12	102.89	2.449
6,650.00	5,456.75	9,510.29	5,564.09	58.27	110.04	-158.74	2,554.64	1,787.50	244.59	125.27	119.32	2.050
6,654.92	5,460.37	9,512.12	5,564.21	58.26	110.09	-158.72	2,554.79	1,789.32	244.53	123.66	120.87	2.023 CC
6,700.00	5,492.54	9,528.39	5,565.32	58.14	110.51	-158.50	2,556.11	1,805.49	249.69	116.05	133.64	1.868 ES
6,750.00	5,525.96	9,546.45	5,566.64	57.96	110.98	-157.97	2,557.61	1,823.45	266.84	123.19	143.65	1.858 SF
6,800.00	5,556.77	9,565.54	5,567.91	57.74	111.49	-156.81	2,559.06	1,842.44	293.96	144.53	149.43	1.967
6,850.00	5,584.72	9,582.49	5,568.89	57.49	111.93	-155.68	2,560.21	1,859.32	328.68	176.33	152.35	2.157
6,900.00	5,609.61	9,597.28	5,569.62	57.20	112.32	-154.48	2,561.10	1,874.07	368.88	215.24	153.64	2.401
6,950.00	5,631.24	9,609.90	5,570.16	56.90	112.65	-153.12	2,561.78	1,886.65	412.91	258.77	154.15	2.679
7,000.00	5,649.44	9,620.27	5,570.54	56.57	112.93	-151.41	2,562.29	1,897.01	459.56	305.23	154.32	2.978
7,050.00	5,664.09	9,628.31	5,570.80	56.22	113.14	-148.89	2,562.64	1,905.04	507.90	353.51	154.39	3.290

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ TATANKA FED LD #13-615 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program:		172-OWSG (Rev2) MWD						Rule Assigned:				Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			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)		
7,100.00	5,675.07	9,633.90	5,570.96	55.87	113.28	-143.64	2,562.87	1,910.62	557.28	402.84	154.44	3.608	
7,150.00	5,682.29	9,636.86	5,571.04	55.50	113.36	-107.19	2,562.98	1,913.58	607.16	452.68	154.48	3.930	
7,200.00	5,685.71	9,637.00	5,571.04	55.14	113.37	14.98	2,562.99	1,913.71	657.12	502.61	154.51	4.253	
7,219.51	5,686.00	9,636.23	5,571.02	54.99	113.35	20.00	2,562.96	1,912.94	676.56	522.05	154.51	4.379	
7,300.00	5,686.00	9,631.82	5,570.90	54.42	113.23	23.37	2,562.79	1,908.54	756.68	602.20	154.48	4.898	
7,400.00	5,686.00	9,625.60	5,570.71	53.72	113.07	27.81	2,562.52	1,902.33	856.28	701.91	154.37	5.547	
7,500.00	5,686.00	9,618.38	5,570.47	53.06	112.88	32.51	2,562.20	1,895.12	955.95	801.73	154.21	6.199	
7,600.00	5,686.00	9,609.88	5,570.16	52.42	112.65	37.41	2,561.78	1,886.64	1,055.64	901.64	154.00	6.855	
7,700.00	5,686.00	9,599.75	5,569.73	51.82	112.39	42.45	2,561.24	1,876.53	1,155.34	1,001.62	153.72	7.516	
7,800.00	5,686.00	9,587.46	5,569.14	51.23	112.06	47.54	2,560.52	1,864.27	1,255.04	1,101.67	153.37	8.183	
7,900.00	5,686.00	9,572.23	5,568.31	50.68	111.66	52.57	2,559.53	1,849.10	1,354.73	1,201.81	152.92	8.859	
8,000.00	5,686.00	9,552.89	5,567.09	50.15	111.15	57.45	2,558.12	1,829.85	1,454.38	1,302.04	152.34	9.547	
8,100.00	5,686.00	9,540.00	5,566.17	49.64	110.81	60.00	2,557.08	1,817.03	1,553.98	1,402.07	151.91	10.229	
8,200.00	5,686.00	9,529.75	5,565.42	49.17	110.55	61.73	2,556.23	1,806.85	1,653.57	1,502.01	151.56	10.910	
8,300.00	5,686.00	9,522.88	5,564.94	48.71	110.37	62.78	2,555.66	1,800.02	1,753.18	1,601.87	151.31	11.587	
8,400.00	5,686.00	9,516.14	5,564.48	48.28	110.19	63.74	2,555.11	1,793.31	1,852.81	1,701.75	151.06	12.265	
8,500.00	5,686.00	9,509.52	5,564.04	47.88	110.02	64.61	2,554.58	1,786.74	1,952.44	1,801.63	150.81	12.946	
8,600.00	5,686.00	9,503.03	5,563.62	47.51	109.85	65.41	2,554.06	1,780.28	2,052.09	1,901.51	150.57	13.629	
8,700.00	5,686.00	9,496.66	5,563.23	47.16	109.68	66.14	2,553.56	1,773.94	2,151.74	2,001.41	150.34	14.313	
8,800.00	5,686.00	9,490.41	5,562.85	46.84	109.52	66.82	2,553.07	1,767.72	2,251.41	2,101.30	150.10	14.999	
8,900.00	5,686.00	9,484.27	5,562.49	46.56	109.36	67.45	2,552.59	1,761.61	2,351.08	2,201.20	149.87	15.687	
9,000.00	5,686.00	9,478.24	5,562.16	46.31	109.20	68.04	2,552.12	1,755.61	2,450.76	2,301.11	149.65	16.377	
9,100.00	5,686.00	9,472.32	5,561.83	46.12	109.05	68.58	2,551.67	1,749.71	2,550.45	2,401.02	149.43	17.068	
9,200.00	5,686.00	9,466.51	5,561.53	45.98	108.89	69.09	2,551.23	1,743.92	2,650.14	2,500.93	149.21	17.761	
9,300.00	5,686.00	9,451.00	5,560.77	45.93	108.49	70.34	2,550.08	1,728.48	2,749.86	2,601.17	148.69	18.494	
9,400.00	5,686.00	9,451.00	5,560.77	46.00	108.49	70.34	2,550.08	1,728.48	2,849.55	2,700.89	148.66	19.168	
9,500.00	5,686.00	9,451.00	5,560.77	46.23	108.49	70.34	2,550.08	1,728.48	2,949.26	2,800.63	148.63	19.843	
9,600.00	5,686.00	9,451.00	5,560.77	46.66	108.49	70.34	2,550.08	1,728.48	3,048.99	2,900.39	148.60	20.518	
9,700.00	5,686.00	9,451.00	5,560.77	47.29	108.49	70.34	2,550.08	1,728.48	3,148.74	3,000.16	148.58	21.192	
9,800.00	5,686.00	9,435.49	5,560.07	48.12	108.08	71.45	2,548.96	1,713.02	3,248.44	3,100.39	148.06	21.940	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ TATANKA FED LD #13-625 - Wellbore #1 - Wellbore #1											Offset Site Error:	0.00 usft
Survey Program: 141-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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
3,600.00	3,216.36	8,264.29	5,635.68	23.30	77.80	-112.14	3,089.16	620.42	3,269.35	3,203.82	65.54	49.887
3,700.00	3,287.09	8,296.79	5,635.33	24.57	78.65	-112.07	3,089.38	652.91	3,176.76	3,110.18	66.58	47.715
3,800.00	3,357.83	8,329.54	5,634.95	25.85	79.51	-111.99	3,089.72	685.66	3,084.23	3,016.59	67.64	45.597
3,900.00	3,428.56	8,368.85	5,634.46	27.14	80.55	-111.87	3,090.22	724.96	2,991.73	2,922.91	68.82	43.473
4,000.00	3,499.30	8,409.55	5,633.92	28.43	81.62	-111.75	3,090.71	765.66	2,899.20	2,829.18	70.03	41.401
4,100.00	3,570.03	8,445.02	5,633.50	29.73	82.55	-111.64	3,091.06	801.12	2,806.66	2,735.49	71.17	39.437
4,200.00	3,640.77	8,477.31	5,633.57	31.03	83.41	-111.57	3,090.95	833.41	2,714.18	2,641.92	72.27	37.559
4,300.00	3,711.50	8,516.00	5,634.28	32.33	84.43	-111.53	3,090.23	872.09	2,621.80	2,548.36	73.44	35.702
4,400.00	3,782.24	8,545.70	5,635.13	33.64	85.22	-111.52	3,089.41	901.77	2,529.46	2,454.96	74.50	33.952
4,500.00	3,852.97	8,582.20	5,636.29	34.95	86.19	-111.52	3,088.30	938.23	2,437.16	2,361.51	75.65	32.217
4,600.00	3,923.71	8,605.00	5,637.07	36.26	86.80	-111.52	3,087.56	961.00	2,344.93	2,268.26	76.67	30.583
4,700.00	3,994.44	8,643.85	5,638.58	37.57	87.84	-111.53	3,086.31	999.80	2,252.79	2,174.93	77.86	28.933
4,800.00	4,065.18	8,672.79	5,639.85	38.88	88.61	-111.54	3,085.45	1,028.70	2,160.87	2,081.89	78.98	27.361
4,900.00	4,135.92	8,706.68	5,641.48	40.20	89.51	-111.56	3,084.52	1,062.54	2,069.12	1,988.98	80.14	25.818
5,000.00	4,206.65	8,753.40	5,643.14	41.52	90.76	-111.53	3,083.82	1,109.22	1,977.33	1,895.91	81.42	24.285
5,100.00	4,277.39	8,794.95	5,643.89	42.84	91.86	-111.42	3,083.84	1,150.77	1,885.41	1,802.71	82.70	22.797
5,200.00	4,348.12	8,827.06	5,644.29	44.16	92.72	-111.30	3,084.16	1,182.87	1,793.59	1,709.63	83.96	21.362
5,300.00	4,418.86	8,859.75	5,644.68	45.48	93.59	-111.15	3,084.71	1,215.56	1,701.93	1,616.67	85.26	19.962
5,400.00	4,489.59	8,891.32	5,645.04	46.80	94.42	-110.98	3,085.48	1,247.12	1,610.46	1,523.86	86.60	18.596
5,500.00	4,560.33	8,922.36	5,645.40	48.12	95.25	-110.78	3,086.51	1,278.14	1,519.24	1,431.24	88.00	17.265
5,600.00	4,631.06	8,963.00	5,645.88	49.45	96.32	-110.45	3,088.30	1,318.73	1,428.31	1,338.85	89.47	15.965
5,700.00	4,701.80	8,995.60	5,646.05	50.77	97.18	-110.11	3,090.13	1,351.28	1,337.51	1,246.50	91.01	14.696
5,800.00	4,772.53	9,039.66	5,645.59	52.10	98.34	-109.49	3,093.25	1,395.23	1,246.68	1,154.02	92.67	13.454
5,900.00	4,843.27	9,119.02	5,643.54	53.42	100.44	-108.04	3,098.47	1,474.38	1,155.36	1,061.11	94.26	12.258
5,954.41	4,881.76	9,128.51	5,643.25	54.14	100.69	-107.89	3,098.45	1,483.88	1,105.00	1,009.78	95.23	11.604
6,000.00	4,914.92	9,171.11	5,642.03	54.73	101.82	-100.96	3,099.91	1,526.42	1,063.19	967.25	95.94	11.082
6,050.00	4,953.22	9,191.64	5,641.44	55.35	102.37	-96.42	3,100.37	1,546.95	1,018.31	920.98	97.32	10.463
6,100.00	4,993.27	9,212.99	5,640.83	55.92	102.94	-94.47	3,100.82	1,568.28	974.95	875.79	99.16	9.833
6,150.00	5,034.75	9,237.16	5,640.15	56.45	103.58	-94.79	3,101.30	1,592.44	933.62	832.18	101.45	9.203
6,200.00	5,077.34	9,274.70	5,638.85	56.91	104.59	-96.34	3,101.71	1,629.95	894.68	790.66	104.03	8.601
6,250.00	5,120.74	9,310.84	5,637.21	57.32	105.56	-99.81	3,101.62	1,666.05	858.63	751.52	107.11	8.016
6,300.00	5,164.59	9,339.09	5,635.77	57.67	106.32	-105.25	3,101.18	1,694.26	826.22	715.38	110.84	7.454
6,350.00	5,208.58	9,365.04	5,634.67	57.94	107.02	-111.61	3,100.41	1,720.17	798.34	683.32	115.03	6.940
6,400.00	5,252.36	9,392.17	5,633.78	58.15	107.75	-117.96	3,099.22	1,747.27	775.66	656.18	119.48	6.492
6,450.00	5,295.61	9,420.57	5,633.14	58.30	108.51	-123.76	3,097.56	1,775.61	758.76	634.71	124.05	6.116
6,500.00	5,337.99	9,442.61	5,632.73	58.38	109.11	-129.21	3,096.17	1,797.61	748.28	619.48	128.80	5.810
6,550.00	5,379.18	9,466.19	5,632.36	58.40	109.75	-133.64	3,094.61	1,821.13	744.59	611.29	133.30	5.586
6,551.64	5,380.50	9,466.96	5,632.35	58.40	109.77	-133.76	3,094.55	1,821.89	744.58	611.14	133.44	5.580 CC
6,600.00	5,418.87	9,489.55	5,632.07	58.36	110.38	-137.17	3,093.00	1,844.44	747.84	610.41	137.43	5.442 ES
6,650.00	5,456.75	9,510.62	5,631.85	58.27	110.95	-140.03	3,091.51	1,865.44	757.98	616.87	141.11	5.372
6,700.00	5,492.54	9,529.13	5,631.72	58.14	111.45	-142.34	3,090.23	1,883.91	774.81	630.54	144.27	5.371 SF
6,750.00	5,525.96	9,546.77	5,631.63	57.96	111.93	-144.05	3,089.07	1,901.51	797.84	650.99	146.85	5.433
6,800.00	5,556.77	9,563.37	5,631.60	57.74	112.37	-145.25	3,088.01	1,918.08	826.46	677.56	148.90	5.550
6,850.00	5,584.72	9,578.76	5,631.61	57.49	112.79	-145.99	3,087.07	1,933.44	859.99	709.49	150.50	5.714
6,900.00	5,609.61	9,593.21	5,631.64	57.20	113.18	-146.24	3,086.21	1,947.87	897.70	745.98	151.72	5.917
6,950.00	5,631.24	9,607.79	5,631.71	56.90	113.58	-145.85	3,085.35	1,962.42	938.88	786.24	152.64	6.151
7,000.00	5,649.44	9,620.69	5,631.79	56.57	113.93	-144.84	3,084.58	1,975.29	982.85	829.51	153.34	6.410
7,050.00	5,664.09	9,631.78	5,631.87	56.22	114.23	-142.91	3,083.92	1,986.37	1,029.02	875.15	153.87	6.687
7,100.00	5,675.07	9,640.97	5,631.95	55.87	114.48	-139.33	3,083.37	1,995.54	1,076.83	922.55	154.27	6.980
7,150.00	5,682.29	9,648.13	5,632.02	55.50	114.67	-131.79	3,082.95	2,002.69	1,125.77	971.21	154.56	7.284
7,200.00	5,685.71	9,653.21	5,632.08	55.14	114.81	-109.57	3,082.64	2,007.76	1,175.40	1,020.65	154.75	7.595
7,219.51	5,686.00	9,654.61	5,632.09	54.99	114.85	-87.74	3,082.56	2,009.16	1,194.86	1,040.06	154.80	7.719

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - EXIST HZ TATANKA FED LD #13-625 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 141-OWSG (Rev2) MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Rule Assigned:	
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)	Warning
7,300.00	5,686.00	9,659.73	5,632.15	54.42	114.98	-87.93	3,082.25	2,014.26	1,275.19	1,120.21	154.98	8.228	
7,400.00	5,686.00	9,666.11	5,632.23	53.72	115.16	-88.14	3,081.86	2,020.63	1,375.00	1,219.80	155.21	8.859	
7,500.00	5,686.00	9,672.52	5,632.31	53.06	115.33	-88.32	3,081.47	2,027.03	1,474.81	1,319.38	155.43	9.488	
7,600.00	5,686.00	9,678.96	5,632.40	52.42	115.51	-88.48	3,081.08	2,033.46	1,574.62	1,418.96	155.66	10.116	
7,700.00	5,686.00	9,680.00	5,632.42	51.82	115.53	-88.51	3,081.02	2,034.50	1,674.43	1,518.62	155.81	10.746	
7,800.00	5,686.00	9,689.96	5,632.57	51.23	115.80	-88.72	3,080.42	2,044.43	1,774.23	1,618.14	156.09	11.367	
7,900.00	5,686.00	9,695.26	5,632.65	50.68	115.95	-88.82	3,080.10	2,049.72	1,874.05	1,717.75	156.30	11.990	
8,000.00	5,686.00	9,700.48	5,632.74	50.15	116.09	-88.92	3,079.79	2,054.94	1,973.86	1,817.35	156.51	12.612	
8,100.00	5,686.00	9,705.63	5,632.84	49.64	116.23	-89.00	3,079.49	2,060.08	2,073.68	1,916.96	156.72	13.232	
8,200.00	5,686.00	9,710.71	5,632.93	49.17	116.37	-89.09	3,079.19	2,065.15	2,173.50	2,016.58	156.92	13.851	
8,300.00	5,686.00	9,715.71	5,633.03	48.71	116.50	-89.16	3,078.90	2,070.14	2,273.32	2,116.20	157.12	14.469	
8,400.00	5,686.00	9,720.65	5,633.13	48.28	116.64	-89.23	3,078.62	2,075.07	2,373.15	2,215.83	157.32	15.085	
8,500.00	5,686.00	9,725.51	5,633.23	47.88	116.77	-89.30	3,078.34	2,079.92	2,472.98	2,315.46	157.52	15.700	
8,600.00	5,686.00	9,730.31	5,633.34	47.51	116.90	-89.36	3,078.07	2,084.71	2,572.81	2,415.10	157.71	16.314	
8,700.00	5,686.00	9,735.04	5,633.44	47.16	117.03	-89.42	3,077.80	2,089.44	2,672.64	2,514.74	157.90	16.926	
8,800.00	5,686.00	9,739.71	5,633.55	46.84	117.15	-89.48	3,077.54	2,094.09	2,772.48	2,614.38	158.09	17.537	
8,900.00	5,686.00	9,744.31	5,633.67	46.56	117.28	-89.53	3,077.29	2,098.69	2,872.31	2,714.03	158.28	18.147	
9,000.00	5,686.00	9,748.86	5,633.78	46.31	117.40	-89.58	3,077.03	2,103.22	2,972.15	2,813.68	158.47	18.756	
9,100.00	5,686.00	9,753.34	5,633.89	46.12	117.52	-89.63	3,076.79	2,107.70	3,071.99	2,913.34	158.65	19.363	
9,200.00	5,686.00	9,757.76	5,634.01	45.98	117.64	-89.68	3,076.55	2,112.11	3,171.84	3,013.00	158.84	19.969	
9,300.00	5,686.00	9,769.00	5,634.32	45.93	117.95	-89.79	3,075.94	2,123.33	3,271.69	3,112.50	159.19	20.552	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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:		SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-25-8 - 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	88.96	1.09	60.14	60.15							
100.00	100.00	100.00	100.00	0.14	0.14	88.96	1.09	60.14	60.15	59.86	0.29	209.727				
200.00	200.00	200.00	200.00	0.50	0.50	88.96	1.09	60.14	60.15	59.14	1.00	59.922				
300.00	300.00	300.00	300.00	0.86	0.86	88.96	1.09	60.14	60.15	58.42	1.72	34.955				
400.00	400.00	400.00	400.00	1.22	1.22	88.96	1.09	60.14	60.15	57.71	2.44	24.674				
500.00	500.00	500.00	500.00	1.58	1.58	88.96	1.09	60.14	60.15	56.99	3.15	19.066				
600.00	600.00	600.00	600.00	1.94	1.94	88.96	1.09	60.14	60.15	56.27	3.87	15.535				
700.00	700.00	700.00	700.00	2.29	2.29	88.96	1.09	60.14	60.15	55.56	4.59	13.108				
800.00	800.00	800.00	800.00	2.65	2.65	88.96	1.09	60.14	60.15	54.84	5.31	11.337				
900.00	900.00	900.00	900.00	3.01	3.01	88.96	1.09	60.14	60.15	54.12	6.02	9.987				
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	88.96	1.09	60.14	60.15	53.41	6.74	8.925 CC, ES				
1,100.00	1,100.00	1,097.42	1,097.38	3.73	3.72	87.63	2.57	62.13	62.24	54.80	7.44	8.366				
1,200.00	1,200.00	1,194.33	1,194.00	4.09	4.06	84.14	6.98	68.07	68.69	60.56	8.12	8.456				
1,300.00	1,300.00	1,290.25	1,289.13	4.45	4.41	79.65	14.22	77.81	79.84	71.05	8.79	9.087				
1,400.00	1,399.95	1,385.14	1,382.54	4.80	4.77	43.31	24.17	91.21	94.07	84.65	9.42	9.984				
1,500.00	1,499.63	1,479.28	1,474.26	5.16	5.16	41.37	36.76	108.16	109.25	99.22	10.03	10.888				
1,600.00	1,598.77	1,572.64	1,564.09	5.52	5.58	40.59	51.89	128.54	125.14	114.50	10.63	11.771				
1,700.00	1,697.08	1,665.21	1,651.84	5.90	6.04	40.58	69.46	152.21	141.60	130.38	11.23	12.611				
1,800.00	1,794.31	1,756.99	1,737.32	6.30	6.54	41.08	89.36	179.01	158.63	146.79	11.84	13.403				
1,900.00	1,890.18	1,847.97	1,820.38	6.73	7.11	41.93	111.48	208.81	176.21	163.74	12.47	14.132				
2,000.00	1,984.43	1,938.16	1,900.88	7.20	7.73	43.01	135.72	241.44	194.37	181.22	13.15	14.783				
2,100.00	2,076.81	2,027.56	1,978.70	7.73	8.43	44.23	161.95	276.77	213.13	199.23	13.90	15.337				
2,200.00	2,167.06	2,116.18	2,053.72	8.33	9.19	45.53	190.06	314.64	232.52	217.78	14.74	15.775				
2,300.00	2,254.93	2,200.00	2,122.59	8.99	9.98	46.80	218.54	352.99	252.60	237.01	15.59	16.200				
2,400.00	2,340.18	2,291.14	2,195.02	9.74	10.93	48.24	251.51	397.39	273.28	256.48	16.81	16.258				
2,500.00	2,422.59	2,377.52	2,261.15	10.56	11.92	49.60	284.63	442.00	294.69	276.61	18.08	16.297				
2,600.00	2,501.91	2,463.20	2,324.21	11.47	12.97	50.92	319.21	488.56	316.78	297.25	19.53	16.218				
2,700.00	2,577.95	2,548.21	2,384.13	12.47	14.09	52.20	355.14	536.96	339.56	318.39	21.17	16.040				
2,799.34	2,650.00	2,632.01	2,440.52	13.55	15.27	53.43	392.09	586.73	362.86	339.87	22.99	15.786				
2,800.00	2,650.47	2,632.57	2,440.89	13.55	15.28	53.45	392.34	587.07	363.02	340.02	23.00	15.784				
2,900.00	2,721.21	2,716.19	2,494.37	14.70	16.52	54.95	430.66	638.66	388.62	363.69	24.93	15.590				
3,000.00	2,791.95	2,804.81	2,548.34	15.87	17.91	56.03	472.56	695.10	417.23	390.21	27.02	15.440				
3,100.00	2,862.68	2,900.20	2,605.98	17.07	19.44	57.00	517.87	756.13	446.42	417.05	29.37	15.202				
3,200.00	2,933.42	2,995.59	2,663.62	18.29	20.99	57.85	563.18	817.15	475.71	443.95	31.75	14.981				
3,300.00	3,004.15	3,090.98	2,721.26	19.53	22.56	58.59	608.49	878.17	505.08	470.90	34.18	14.778				
3,400.00	3,074.89	3,186.37	2,778.90	20.77	24.14	59.26	653.80	939.20	534.53	497.90	36.63	14.593				
3,500.00	3,145.62	3,281.76	2,836.54	22.03	25.73	59.86	699.11	1,000.22	564.03	524.92	39.11	14.423				
3,600.00	3,216.36	3,377.15	2,894.18	23.30	27.34	60.40	744.42	1,061.24	593.59	551.98	41.60	14.268				
3,700.00	3,287.09	3,472.55	2,951.83	24.57	28.94	60.89	789.73	1,122.27	623.18	579.07	44.12	14.126				
3,800.00	3,357.83	3,567.94	3,009.47	25.85	30.56	61.33	835.04	1,183.29	652.82	606.18	46.65	13.995				
3,900.00	3,428.56	3,663.33	3,067.11	27.14	32.18	61.74	880.35	1,244.31	682.49	633.30	49.19	13.875				
4,000.00	3,499.30	3,758.72	3,124.75	28.43	33.81	62.11	925.67	1,305.34	712.19	660.45	51.74	13.765				
4,100.00	3,570.03	3,854.11	3,182.39	29.73	35.43	62.45	970.98	1,366.36	741.91	687.61	54.30	13.663				
4,200.00	3,640.77	3,949.50	3,240.03	31.03	37.07	62.76	1,016.29	1,427.38	771.66	714.79	56.87	13.569				
4,300.00	3,711.50	4,044.89	3,297.67	32.33	38.70	63.06	1,061.60	1,488.41	801.42	741.98	59.44	13.482				
4,400.00	3,782.24	4,140.28	3,355.31	33.64	40.34	63.33	1,106.91	1,549.43	831.20	769.18	62.03	13.401				
4,500.00	3,852.97	4,235.67	3,412.96	34.95	41.98	63.58	1,152.22	1,610.45	861.00	796.39	64.61	13.325				
4,600.00	3,923.71	4,331.06	3,470.60	36.26	43.62	63.82	1,197.53	1,671.48	890.81	823.61	67.21	13.255				
4,700.00	3,994.44	4,426.45	3,528.24	37.57	45.27	64.04	1,242.84	1,732.50	920.64	850.83	69.80	13.189				
4,800.00	4,065.18	4,521.84	3,585.88	38.88	46.91	64.24	1,288.15	1,793.52	950.48	878.07	72.40	13.127				
4,900.00	4,135.92	4,617.23	3,643.52	40.20	48.56	64.44	1,333.46	1,854.55	980.32	905.31	75.01	13.069				
5,000.00	4,206.65	4,712.63	3,701.16	41.52	50.21	64.62	1,378.77	1,915.57	1,010.18	932.56	77.62	13.015				

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-25-8 - 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)			
5,100.00	4,277.39	4,808.02	3,758.80	42.84	51.86	64.79	1,424.08	1,976.59	1,040.05	959.82	80.23	12.964	
5,200.00	4,348.12	4,903.41	3,816.44	44.16	53.51	64.95	1,469.39	2,037.62	1,069.92	987.08	82.84	12.915	
5,300.00	4,418.86	4,998.80	3,874.09	45.48	55.16	65.11	1,514.70	2,098.64	1,099.80	1,014.35	85.46	12.870	
5,400.00	4,489.59	5,094.19	3,931.73	46.80	56.81	65.25	1,560.01	2,159.66	1,129.69	1,041.62	88.07	12.827	
5,500.00	4,560.33	5,189.58	3,989.37	48.12	58.47	65.39	1,605.32	2,220.69	1,159.58	1,068.89	90.69	12.786	
5,600.00	4,631.06	5,284.97	4,047.01	49.45	60.12	65.52	1,650.63	2,281.71	1,189.48	1,096.17	93.32	12.747	
5,700.00	4,701.80	5,380.36	4,104.65	50.77	61.78	65.65	1,695.94	2,342.73	1,219.39	1,123.45	95.94	12.710	
5,800.00	4,772.53	5,475.75	4,162.29	52.10	63.43	65.76	1,741.25	2,403.76	1,249.30	1,150.74	98.56	12.675	
5,900.00	4,843.27	5,571.14	4,219.93	53.42	65.09	65.88	1,786.56	2,464.78	1,279.22	1,178.03	101.19	12.642	
5,954.41	4,881.76	5,623.04	4,251.30	54.14	65.99	65.94	1,811.22	2,497.98	1,295.50	1,192.88	102.62	12.624	
6,000.00	4,914.92	5,666.70	4,277.67	54.73	66.75	63.85	1,831.95	2,525.91	1,308.58	1,204.84	103.74	12.614	
6,050.00	4,953.22	5,714.73	4,306.70	55.35	67.58	60.50	1,854.77	2,556.64	1,321.61	1,216.82	104.79	12.612	
6,100.00	4,993.27	5,762.57	4,335.61	55.92	68.41	55.91	1,877.49	2,587.24	1,333.20	1,227.55	105.64	12.620	
6,150.00	5,034.75	5,809.86	4,364.18	56.45	69.23	50.02	1,899.95	2,617.49	1,343.33	1,237.06	106.28	12.640	
6,200.00	5,077.34	5,856.23	4,392.20	56.91	70.04	42.78	1,921.98	2,647.16	1,352.05	1,245.37	106.67	12.675	
6,250.00	5,120.74	5,901.34	4,419.46	57.32	70.82	34.33	1,943.40	2,676.01	1,359.42	1,252.60	106.82	12.726	
6,300.00	5,164.59	5,944.83	4,445.74	57.67	71.58	24.99	1,964.06	2,703.84	1,365.56	1,258.84	106.71	12.797	
6,350.00	5,208.58	5,986.39	4,470.85	57.94	72.30	15.26	1,983.80	2,730.42	1,370.59	1,264.27	106.33	12.891	
6,400.00	5,252.36	6,025.68	4,494.59	58.15	72.99	5.72	2,002.47	2,755.56	1,374.70	1,269.04	105.66	13.011	
6,450.00	5,295.61	6,062.42	4,516.79	58.30	73.63	-3.16	2,019.92	2,779.06	1,378.05	1,273.34	104.71	13.161	
6,500.00	5,337.99	6,096.32	4,537.28	58.38	74.21	-11.09	2,036.02	2,800.75	1,380.85	1,277.37	103.48	13.344	
6,550.00	5,379.18	6,127.12	4,555.89	58.40	74.75	-17.97	2,050.65	2,820.45	1,383.28	1,281.31	101.98	13.565	
6,600.00	5,418.87	6,154.60	4,572.49	58.36	75.23	-23.80	2,063.70	2,838.03	1,385.56	1,285.35	100.22	13.826	
6,650.00	5,456.75	6,178.54	4,586.96	58.27	75.64	-28.69	2,075.07	2,853.34	1,387.87	1,289.65	98.22	14.131	
6,700.00	5,492.54	6,198.75	4,599.18	58.14	76.00	-32.70	2,084.68	2,866.28	1,390.37	1,294.36	96.01	14.482	
6,750.00	5,525.96	6,215.10	4,609.05	57.96	76.28	-35.94	2,092.44	2,876.73	1,393.22	1,299.59	93.63	14.881	
6,800.00	5,556.77	6,227.44	4,616.51	57.74	76.50	-38.48	2,098.30	2,884.63	1,396.52	1,305.41	91.11	15.329	
6,850.00	5,584.72	6,235.69	4,621.50	57.49	76.64	-40.38	2,102.22	2,889.91	1,400.35	1,311.86	88.50	15.824	
6,900.00	5,609.61	6,239.79	4,623.97	57.20	76.71	-41.69	2,104.17	2,892.53	1,404.76	1,318.91	85.84	16.364	
6,950.00	5,631.24	6,239.69	4,623.92	56.90	76.71	-42.47	2,104.12	2,892.47	1,409.73	1,326.53	83.20	16.944	
7,000.00	5,649.44	6,235.42	4,621.33	56.57	76.63	-42.77	2,102.09	2,889.73	1,415.24	1,334.62	80.62	17.555	
7,050.00	5,664.09	6,226.99	4,616.24	56.22	76.49	-42.62	2,098.09	2,884.34	1,421.18	1,343.04	78.14	18.188	
7,100.00	5,675.07	6,214.47	4,608.67	55.87	76.27	-42.08	2,092.14	2,876.33	1,427.44	1,351.64	75.81	18.830	
7,150.00	5,682.29	6,197.95	4,598.69	55.50	75.98	-41.19	2,084.30	2,865.76	1,433.87	1,360.21	73.66	19.467	
7,200.00	5,685.71	6,177.57	4,586.38	55.14	75.63	-40.01	2,074.61	2,852.73	1,440.26	1,368.55	71.71	20.084	
7,219.51	5,686.00	6,168.60	4,580.96	54.99	75.47	-39.47	2,070.35	2,846.99	1,442.71	1,371.70	71.01	20.316	
7,300.00	5,686.00	6,130.44	4,557.90	54.42	74.81	-38.13	2,052.23	2,822.58	1,454.40	1,385.95	68.45	21.248	
7,400.00	5,686.00	6,083.03	4,529.25	53.72	73.98	-36.48	2,029.71	2,792.25	1,473.55	1,407.56	65.99	22.331	
7,500.00	5,686.00	6,035.63	4,500.60	53.06	73.16	-34.83	2,007.19	2,761.92	1,497.64	1,433.29	64.34	23.276	
7,600.00	5,686.00	5,988.22	4,471.96	52.42	72.34	-33.20	1,984.67	2,731.59	1,526.43	1,462.94	63.49	24.041	
7,700.00	5,686.00	5,940.81	4,443.31	51.82	71.51	-31.59	1,962.15	2,701.27	1,559.67	1,496.31	63.36	24.615	
7,800.00	5,686.00	5,893.40	4,414.66	51.23	70.69	-29.99	1,939.63	2,670.94	1,597.08	1,533.25	63.83	25.019	
7,900.00	5,686.00	5,845.99	4,386.02	50.68	69.86	-28.42	1,917.12	2,640.61	1,638.37	1,573.59	64.78	25.292	
8,000.00	5,686.00	5,798.59	4,357.37	50.15	69.04	-26.87	1,894.60	2,610.28	1,683.26	1,617.19	66.06	25.479	
8,100.00	5,686.00	5,751.18	4,328.72	49.64	68.22	-25.34	1,872.08	2,579.95	1,731.46	1,663.89	67.57	25.624	
8,200.00	5,686.00	5,703.77	4,300.08	49.17	67.39	-23.84	1,849.56	2,549.63	1,782.71	1,713.52	69.20	25.762	
8,300.00	5,686.00	5,656.36	4,271.43	48.71	66.57	-22.36	1,827.04	2,519.30	1,836.76	1,765.89	70.87	25.917	
8,400.00	5,686.00	5,608.95	4,242.78	48.28	65.74	-20.92	1,804.52	2,488.97	1,893.36	1,820.83	72.53	26.106	
8,500.00	5,686.00	5,561.55	4,214.14	47.88	64.92	-19.50	1,782.00	2,458.64	1,952.29	1,878.16	74.12	26.338	
8,600.00	5,686.00	9,497.79	5,608.00	47.51	89.50	-87.77	513.33	3,938.97	2,001.31	1,914.24	87.07	22.986	
8,700.00	5,686.00	9,597.79	5,608.00	47.16	89.18	-87.77	413.33	3,939.16	2,001.36	1,913.85	87.51	22.869	
8,800.00	5,686.00	9,697.79	5,608.00	46.84	88.88	-87.77	313.33	3,939.36	2,001.42	1,913.31	88.10	22.717	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-25-8 - 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		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
8,900.00	5,686.00	9,797.79	5,608.00	46.56	88.58	-87.77	213.33	3,939.56	2,001.47	1,912.64	88.83	22.531
9,000.00	5,686.00	9,897.79	5,608.00	46.31	88.30	-87.77	113.33	3,939.76	2,001.53	1,911.83	89.70	22.314
9,100.00	5,686.00	9,997.79	5,608.00	46.12	88.03	-87.77	13.33	3,939.95	2,001.58	1,910.89	90.69	22.070
9,200.00	5,686.00	10,097.79	5,608.00	45.98	87.77	-87.77	-86.67	3,940.15	2,001.63	1,909.82	91.82	21.800
9,300.00	5,686.00	10,197.79	5,608.00	45.93	87.52	-87.77	-186.67	3,940.35	2,001.69	1,908.62	93.06	21.509
9,400.00	5,686.00	10,297.79	5,608.00	46.00	87.28	-87.77	-286.67	3,940.55	2,001.74	1,907.31	94.43	21.199
9,500.00	5,686.00	10,397.79	5,608.00	46.23	87.05	-87.77	-386.67	3,940.74	2,001.80	1,905.89	95.90	20.873
9,600.00	5,686.00	10,497.79	5,608.00	46.66	86.84	-87.77	-486.67	3,940.94	2,001.85	1,904.36	97.49	20.534
9,700.00	5,686.00	10,597.79	5,608.00	47.29	86.63	-87.77	-586.67	3,941.14	2,001.90	1,902.73	99.17	20.186
9,800.00	5,686.00	10,697.79	5,608.00	48.12	86.44	-87.77	-686.67	3,941.34	2,001.96	1,901.00	100.96	19.830
9,900.00	5,686.00	10,797.79	5,608.00	49.08	86.27	-87.77	-786.67	3,941.53	2,002.01	1,899.18	102.83	19.469
10,000.00	5,686.00	10,897.79	5,608.00	50.16	86.10	-87.77	-886.67	3,941.73	2,002.07	1,897.27	104.80	19.105
10,100.00	5,686.00	10,997.79	5,608.00	51.32	85.95	-87.77	-986.67	3,941.93	2,002.12	1,895.28	106.84	18.739
10,200.00	5,686.00	11,097.79	5,608.00	52.53	85.82	-87.77	-1,086.67	3,942.13	2,002.17	1,893.21	108.96	18.375
10,300.00	5,686.00	11,197.79	5,608.00	53.79	85.71	-87.77	-1,186.66	3,942.32	2,002.23	1,891.07	111.16	18.012
10,400.00	5,686.00	11,297.79	5,608.00	55.09	85.61	-87.77	-1,286.66	3,942.52	2,002.28	1,888.86	113.42	17.653
10,500.00	5,686.00	11,397.79	5,608.00	56.42	85.53	-87.77	-1,386.66	3,942.72	2,002.34	1,886.58	115.75	17.298
10,600.00	5,686.00	11,497.79	5,608.00	57.77	85.47	-87.77	-1,486.66	3,942.92	2,002.39	1,884.25	118.14	16.949
10,700.00	5,686.00	11,597.79	5,608.00	59.15	85.44	-87.77	-1,586.66	3,943.11	2,002.44	1,881.85	120.59	16.605
10,800.00	5,686.00	11,697.79	5,608.00	60.55	85.44	-87.77	-1,686.66	3,943.31	2,002.50	1,879.40	123.10	16.268
10,900.00	5,686.00	11,797.79	5,608.00	61.97	85.46	-87.77	-1,786.66	3,943.51	2,002.55	1,876.90	125.65	15.938
11,000.00	5,686.00	11,897.79	5,608.00	63.40	85.52	-87.77	-1,886.66	3,943.71	2,002.61	1,874.36	128.25	15.615
11,100.00	5,686.00	11,997.79	5,608.00	64.85	85.63	-87.77	-1,986.66	3,943.90	2,002.66	1,871.76	130.90	15.300
11,200.00	5,686.00	12,097.79	5,608.00	66.32	85.77	-87.77	-2,086.66	3,944.10	2,002.71	1,869.13	133.59	14.992
11,300.00	5,686.00	12,197.79	5,608.00	67.80	85.97	-87.77	-2,186.66	3,944.30	2,002.77	1,866.45	136.31	14.692
11,400.00	5,686.00	12,297.79	5,608.00	69.29	86.24	-87.77	-2,286.66	3,944.50	2,002.82	1,863.74	139.08	14.400
11,500.00	5,686.00	12,397.79	5,608.00	70.79	86.57	-87.77	-2,386.66	3,944.70	2,002.88	1,860.99	141.88	14.116
11,600.00	5,686.00	12,497.79	5,608.00	72.30	86.97	-87.77	-2,486.66	3,944.89	2,002.93	1,858.21	144.72	13.840
11,700.00	5,686.00	12,597.79	5,608.00	73.83	87.46	-87.77	-2,586.66	3,945.09	2,002.98	1,855.40	147.58	13.572
11,800.00	5,686.00	12,697.79	5,608.00	75.36	88.04	-87.77	-2,686.66	3,945.29	2,003.04	1,852.56	150.48	13.311
11,900.00	5,686.00	12,797.79	5,608.00	76.90	88.71	-87.77	-2,786.66	3,945.49	2,003.09	1,849.69	153.40	13.058
12,000.00	5,686.00	12,897.79	5,608.00	78.45	89.47	-87.77	-2,886.66	3,945.68	2,003.15	1,846.79	156.35	12.812
12,100.00	5,686.00	12,997.79	5,608.00	80.01	90.32	-87.77	-2,986.66	3,945.88	2,003.20	1,843.87	159.33	12.573
12,200.00	5,686.00	13,097.79	5,608.00	81.58	91.26	-87.77	-3,086.66	3,946.08	2,003.25	1,840.93	162.33	12.341
12,300.00	5,686.00	13,197.79	5,608.00	83.15	92.27	-87.77	-3,186.66	3,946.28	2,003.31	1,837.96	165.35	12.116
12,400.00	5,686.00	13,297.79	5,608.00	84.73	93.36	-87.77	-3,286.66	3,946.47	2,003.36	1,834.97	168.39	11.897
12,500.00	5,686.00	13,397.79	5,608.00	86.32	94.51	-87.77	-3,386.66	3,946.67	2,003.42	1,831.96	171.45	11.685
12,600.00	5,686.00	13,497.79	5,608.00	87.91	95.72	-87.77	-3,486.66	3,946.87	2,003.47	1,828.94	174.53	11.479
12,700.00	5,686.00	13,597.79	5,608.00	89.51	96.97	-87.77	-3,586.66	3,947.07	2,003.52	1,825.89	177.63	11.279
12,800.00	5,686.00	13,697.79	5,608.00	91.12	98.27	-87.77	-3,686.66	3,947.26	2,003.58	1,822.83	180.75	11.085
12,900.00	5,686.00	13,797.79	5,608.00	92.73	99.61	-87.77	-3,786.66	3,947.46	2,003.63	1,819.75	183.88	10.896
13,000.00	5,686.00	13,897.79	5,608.00	94.35	100.97	-87.77	-3,886.66	3,947.66	2,003.69	1,816.66	187.03	10.713
13,100.00	5,686.00	13,997.79	5,608.00	95.97	102.37	-87.77	-3,986.66	3,947.86	2,003.74	1,813.55	190.19	10.535
13,200.00	5,686.00	14,097.79	5,608.00	97.59	103.79	-87.77	-4,086.66	3,948.05	2,003.80	1,810.43	193.37	10.363
13,300.00	5,686.00	14,197.79	5,608.00	99.22	105.23	-87.77	-4,186.66	3,948.25	2,003.85	1,807.29	196.55	10.195
13,400.00	5,686.00	14,297.79	5,608.00	100.86	106.69	-87.77	-4,286.66	3,948.45	2,003.90	1,804.15	199.76	10.032
13,500.00	5,686.00	14,397.79	5,608.00	102.50	108.16	-87.77	-4,386.66	3,948.65	2,003.96	1,800.99	202.97	9.873
13,600.00	5,686.00	14,497.79	5,608.00	104.14	109.65	-87.77	-4,486.66	3,948.84	2,004.01	1,797.82	206.20	9.719
13,700.00	5,686.00	14,597.79	5,608.00	105.79	111.16	-87.77	-4,586.66	3,949.04	2,004.07	1,794.63	209.43	9.569
13,800.00	5,686.00	14,697.79	5,608.00	107.44	112.68	-87.77	-4,686.66	3,949.24	2,004.12	1,791.44	212.68	9.423
13,900.00	5,686.00	14,797.79	5,608.00	109.09	114.21	-87.77	-4,786.66	3,949.44	2,004.17	1,788.24	215.93	9.281
14,000.00	5,686.00	14,897.79	5,608.00	110.75	115.75	-87.77	-4,886.66	3,949.63	2,004.23	1,785.03	219.20	9.143

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-25-8 - 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)			
14,100.00	5,686.00	14,997.79	5,608.00	112.41	117.30	-87.77	-4,986.66	3,949.83	2,004.28	1,781.81	222.47	9.009	
14,200.00	5,686.00	15,097.79	5,608.00	114.08	118.85	-87.77	-5,086.66	3,950.03	2,004.34	1,778.58	225.76	8.878	
14,300.00	5,686.00	15,197.79	5,608.00	115.74	120.42	-87.77	-5,186.66	3,950.23	2,004.39	1,775.34	229.05	8.751	
14,400.00	5,686.00	15,297.79	5,608.00	117.41	121.99	-87.77	-5,286.66	3,950.42	2,004.44	1,772.09	232.35	8.627	
14,500.00	5,686.00	15,397.79	5,608.00	119.09	123.57	-87.77	-5,386.66	3,950.62	2,004.50	1,768.84	235.66	8.506	
14,578.25	5,686.00	15,476.04	5,608.00	120.40	124.81	-87.77	-5,464.91	3,950.78	2,004.54	1,766.29	238.25	8.414	
14,580.87	5,686.00	15,478.66	5,608.00	120.44	124.86	-87.77	-5,467.53	3,950.78	2,004.54	1,766.21	238.34	8.411	
14,600.00	5,686.00	15,497.79	5,608.00	120.76	125.16	-87.77	-5,486.66	3,950.82	2,004.58	1,765.61	238.97	8.388	
14,678.08	5,686.00	15,575.86	5,608.00	122.07	126.40	-87.77	-5,564.73	3,950.97	2,004.73	1,763.16	241.56	8.299 SF	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-25-9 - 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)			
0.00	0.00	0.00	0.00	0.00	0.00	88.96	1.46	80.09	80.10				
100.00	100.00	100.00	100.00	0.14	0.14	88.96	1.46	80.09	80.10	79.81	0.29	279.314	
200.00	200.00	200.00	200.00	0.50	0.50	88.96	1.46	80.09	80.10	79.10	1.00	79.804	
300.00	300.00	300.00	300.00	0.86	0.86	88.96	1.46	80.09	80.10	78.38	1.72	46.552	
400.00	400.00	400.00	400.00	1.22	1.22	88.96	1.46	80.09	80.10	77.66	2.44	32.861	
500.00	500.00	500.00	500.00	1.58	1.58	88.96	1.46	80.09	80.10	76.95	3.15	25.392	
600.00	600.00	600.00	600.00	1.94	1.94	88.96	1.46	80.09	80.10	76.23	3.87	20.690	
700.00	700.00	700.00	700.00	2.29	2.29	88.96	1.46	80.09	80.10	75.51	4.59	17.457	
800.00	800.00	800.00	800.00	2.65	2.65	88.96	1.46	80.09	80.10	74.80	5.31	15.098	
900.00	900.00	900.00	900.00	3.01	3.01	88.96	1.46	80.09	80.10	74.08	6.02	13.301 CC, ES	
1,000.00	1,000.00	996.44	996.40	3.37	3.35	88.09	2.75	82.15	82.28	75.56	6.72	12.246	
1,100.00	1,100.00	1,092.40	1,092.07	3.73	3.70	85.74	6.58	88.30	88.90	81.50	7.40	12.014	
1,200.00	1,200.00	1,187.39	1,186.31	4.09	4.04	82.55	12.88	98.40	100.18	92.12	8.06	12.423	
1,300.00	1,300.00	1,280.97	1,278.45	4.45	4.40	79.16	21.49	112.22	116.28	107.57	8.71	13.356	
1,400.00	1,399.95	1,373.24	1,368.41	4.80	4.78	43.72	32.32	129.59	135.39	126.07	9.32	14.526	
1,500.00	1,499.63	1,464.54	1,456.36	5.16	5.20	42.25	45.28	150.38	155.41	145.50	9.91	15.679	
1,600.00	1,598.77	1,554.88	1,542.12	5.52	5.65	41.67	60.28	174.43	176.11	165.62	10.49	16.788	
1,700.00	1,697.08	1,644.22	1,625.53	5.90	6.15	41.70	77.21	201.58	197.39	186.32	11.07	17.830	
1,800.00	1,794.31	1,732.58	1,706.46	6.30	6.70	42.15	95.96	231.66	219.23	207.57	11.66	18.799	
1,900.00	1,890.18	1,819.94	1,784.77	6.73	7.31	42.87	116.43	264.49	241.62	229.34	12.28	19.677	
2,000.00	1,984.43	1,906.30	1,860.38	7.20	7.99	43.78	138.51	299.90	264.59	251.65	12.94	20.443	
2,100.00	2,076.81	1,991.69	1,933.20	7.73	8.73	44.81	162.09	337.72	288.16	274.48	13.68	21.070	
2,200.00	2,167.06	2,076.11	2,003.17	8.33	9.54	45.91	187.08	377.79	312.35	297.85	14.50	21.536	
2,300.00	2,254.93	2,159.58	2,070.23	8.99	10.42	47.05	213.36	419.95	337.20	321.75	15.44	21.832	
2,400.00	2,340.18	2,242.12	2,134.35	9.74	11.36	48.20	240.86	464.05	362.71	346.19	16.52	21.954	
2,500.00	2,422.59	2,323.77	2,195.51	10.56	12.36	49.34	269.48	509.95	388.90	371.15	17.75	21.909	
2,600.00	2,501.91	2,400.00	2,250.47	11.47	13.35	50.36	297.42	554.76	415.80	396.77	19.03	21.845	
2,700.00	2,577.95	2,484.50	2,308.88	12.47	14.55	51.55	329.72	606.57	443.33	422.60	20.73	21.390	
2,799.34	2,650.00	2,563.14	2,360.77	13.55	15.73	52.58	360.98	656.71	471.37	448.89	22.48	20.971	
2,800.00	2,650.47	2,563.66	2,361.10	13.55	15.73	52.59	361.20	657.05	471.56	449.07	22.49	20.968	
2,900.00	2,721.21	2,641.95	2,410.28	14.70	16.97	54.12	393.42	708.73	501.93	477.57	24.36	20.608	
3,000.00	2,791.95	2,719.69	2,456.60	15.87	18.24	55.25	426.45	761.71	535.65	509.41	26.24	20.416	
3,100.00	2,862.68	2,812.73	2,510.64	17.07	19.83	56.35	466.52	825.98	570.94	542.36	28.57	19.981	
3,200.00	2,933.42	2,905.77	2,564.68	18.29	21.43	57.32	506.59	890.24	606.39	575.43	30.96	19.588	
3,300.00	3,004.15	2,998.81	2,618.72	19.53	23.06	58.18	546.66	954.51	641.97	608.59	33.38	19.233	
3,400.00	3,074.89	3,091.84	2,672.76	20.77	24.69	58.95	586.73	1,018.77	677.67	641.84	35.83	18.912	
3,500.00	3,145.62	3,184.88	2,726.80	22.03	26.34	59.64	626.80	1,083.04	713.47	675.16	38.31	18.623	
3,600.00	3,216.36	3,277.92	2,780.84	23.30	27.99	60.27	666.87	1,147.31	749.35	708.54	40.81	18.361	
3,700.00	3,287.09	3,370.96	2,834.88	24.57	29.66	60.84	706.94	1,211.57	785.30	741.97	43.33	18.124	
3,800.00	3,357.83	3,464.00	2,888.92	25.85	31.32	61.37	747.01	1,275.84	821.32	775.45	45.86	17.908	
3,900.00	3,428.56	3,557.04	2,942.96	27.14	33.00	61.84	787.08	1,340.10	857.39	808.98	48.41	17.711	
4,000.00	3,499.30	3,650.07	2,997.00	28.43	34.67	62.28	827.16	1,404.37	893.50	842.54	50.97	17.531	
4,100.00	3,570.03	3,743.11	3,051.04	29.73	36.35	62.69	867.23	1,468.64	929.66	876.13	53.53	17.366	
4,200.00	3,640.77	3,836.15	3,105.09	31.03	38.04	63.07	907.30	1,532.90	965.86	909.75	56.11	17.214	
4,300.00	3,711.50	3,929.19	3,159.13	32.33	39.73	63.41	947.37	1,597.17	1,002.09	943.40	58.69	17.073	
4,400.00	3,782.24	4,022.23	3,213.17	33.64	41.41	63.74	987.44	1,661.44	1,038.35	977.07	61.28	16.944	
4,500.00	3,852.97	4,115.26	3,267.21	34.95	43.11	64.04	1,027.51	1,725.70	1,074.64	1,010.76	63.88	16.823	
4,600.00	3,923.71	4,208.30	3,321.25	36.26	44.80	64.32	1,067.58	1,789.97	1,110.95	1,044.47	66.48	16.711	
4,700.00	3,994.44	4,301.34	3,375.29	37.57	46.50	64.59	1,107.65	1,854.23	1,147.29	1,078.20	69.08	16.607	
4,800.00	4,065.18	4,394.38	3,429.33	38.88	48.19	64.84	1,147.72	1,918.50	1,183.64	1,111.95	71.69	16.510	
4,900.00	4,135.92	4,487.42	3,483.37	40.20	49.89	65.07	1,187.79	1,982.77	1,220.01	1,145.71	74.31	16.418	
5,000.00	4,206.65	4,580.46	3,537.41	41.52	51.59	65.29	1,227.86	2,047.03	1,256.40	1,179.48	76.92	16.333	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-25-9 - 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:	
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
5,100.00	4,277.39	4,673.49	3,591.45	42.84	53.29	65.50	1,267.93	2,111.30	1,292.81	1,213.26	79.54	16.253
5,200.00	4,348.12	4,766.53	3,645.49	44.16	54.99	65.70	1,308.00	2,175.56	1,329.23	1,247.06	82.17	16.177
5,300.00	4,418.86	4,859.57	3,699.53	45.48	56.70	65.88	1,348.07	2,239.83	1,365.66	1,280.87	84.79	16.106
5,400.00	4,489.59	4,952.61	3,753.57	46.80	58.40	66.06	1,388.14	2,304.10	1,402.10	1,314.68	87.42	16.039
5,500.00	4,560.33	5,045.65	3,807.61	48.12	60.10	66.23	1,428.21	2,368.36	1,438.56	1,348.51	90.05	15.975
5,600.00	4,631.06	5,138.69	3,861.65	49.45	61.81	66.38	1,468.28	2,432.63	1,475.02	1,382.34	92.68	15.915
5,700.00	4,701.80	5,231.72	3,915.69	50.77	63.52	66.54	1,508.35	2,496.90	1,511.49	1,416.18	95.31	15.858
5,800.00	4,772.53	5,324.76	3,969.73	52.10	65.22	66.68	1,548.42	2,561.16	1,547.98	1,450.03	97.95	15.804
5,900.00	4,843.27	5,417.80	4,023.77	53.42	66.93	66.82	1,588.49	2,625.43	1,584.47	1,483.89	100.58	15.753
5,954.41	4,881.76	5,468.42	4,053.17	54.14	67.86	66.89	1,610.29	2,660.40	1,604.33	1,502.31	102.02	15.726
6,000.00	4,914.92	5,511.07	4,077.94	54.73	68.64	65.15	1,628.66	2,689.86	1,620.40	1,517.24	103.16	15.708
6,050.00	4,953.22	5,558.17	4,105.30	55.35	69.51	62.18	1,648.95	2,722.39	1,636.64	1,532.38	104.26	15.698
6,100.00	4,993.27	5,605.26	4,132.65	55.92	70.37	58.00	1,669.23	2,754.91	1,651.34	1,546.14	105.19	15.698
6,150.00	5,034.75	5,651.98	4,159.79	56.45	71.23	52.50	1,689.35	2,787.19	1,664.45	1,558.50	105.95	15.710
6,200.00	5,077.34	5,697.97	4,186.50	56.91	72.07	45.66	1,709.16	2,818.95	1,675.95	1,569.44	106.51	15.736
6,250.00	5,120.74	5,742.89	4,212.59	57.32	72.90	37.60	1,728.50	2,849.98	1,685.86	1,579.00	106.86	15.777
6,300.00	5,164.59	5,786.39	4,237.86	57.67	73.70	28.63	1,747.24	2,880.03	1,694.24	1,587.25	106.98	15.836
6,350.00	5,208.58	5,828.14	4,262.11	57.94	74.46	19.26	1,765.22	2,908.87	1,701.16	1,594.27	106.88	15.916
6,400.00	5,252.36	5,867.83	4,285.16	58.15	75.19	10.05	1,782.31	2,936.28	1,706.73	1,600.18	106.55	16.019
6,450.00	5,295.61	5,905.15	4,306.84	58.30	75.88	1.45	1,798.38	2,962.06	1,711.07	1,605.10	105.97	16.147
6,500.00	5,337.99	5,939.81	4,326.97	58.38	76.51	-6.24	1,813.32	2,986.01	1,714.33	1,609.17	105.16	16.303
6,550.00	5,379.18	5,971.57	4,345.42	58.40	77.10	-12.95	1,826.99	3,007.94	1,716.65	1,612.54	104.11	16.489
6,600.00	5,418.87	6,000.16	4,362.02	58.36	77.62	-18.69	1,839.31	3,027.69	1,718.19	1,615.36	102.83	16.709
6,650.00	5,456.75	6,025.38	4,376.67	58.27	78.09	-23.57	1,850.17	3,045.11	1,719.10	1,617.75	101.34	16.963
6,700.00	5,492.54	6,047.03	4,389.25	58.14	78.49	-27.67	1,859.49	3,060.07	1,719.52	1,619.87	99.66	17.254
6,750.00	5,525.96	6,064.95	4,399.66	57.96	78.81	-31.10	1,867.21	3,072.45	1,719.60	1,621.80	97.80	17.584
6,800.00	5,556.77	6,079.01	4,407.82	57.74	79.07	-33.93	1,873.26	3,082.16	1,719.45	1,623.66	95.78	17.952
6,850.00	5,584.72	6,089.08	4,413.68	57.49	79.26	-36.22	1,877.60	3,089.12	1,719.16	1,625.51	93.65	18.358
6,900.00	5,609.61	6,095.11	4,417.18	57.20	79.37	-38.02	1,880.20	3,093.28	1,718.81	1,627.39	91.42	18.801
6,950.00	5,631.24	6,097.04	4,418.30	56.90	79.40	-39.39	1,881.03	3,094.61	1,718.45	1,629.31	89.14	19.278
7,000.00	5,649.44	6,094.86	4,417.03	56.57	79.36	-40.35	1,880.09	3,093.10	1,718.09	1,631.24	86.84	19.784
7,050.00	5,664.09	6,088.58	4,413.38	56.22	79.25	-40.94	1,877.39	3,088.77	1,717.71	1,633.15	84.56	20.314
7,100.00	5,675.07	6,078.25	4,407.38	55.87	79.06	-41.19	1,872.94	3,081.63	1,717.28	1,634.96	82.32	20.860
7,150.00	5,682.29	6,063.95	4,399.08	55.50	78.80	-41.13	1,866.78	3,071.76	1,716.73	1,636.56	80.17	21.413
7,200.00	5,685.71	6,045.80	4,388.53	55.14	78.46	-40.80	1,858.96	3,059.22	1,715.97	1,637.84	78.13	21.964
7,219.51	5,686.00	6,037.69	4,383.83	54.99	78.31	-40.61	1,855.47	3,053.62	1,715.59	1,638.22	77.36	22.175
7,263.66	5,686.00	6,018.72	4,372.81	54.68	77.97	-40.03	1,847.30	3,040.52	1,715.12	1,639.42	75.71	22.655
7,300.00	5,686.00	6,003.11	4,363.74	54.42	77.68	-39.56	1,840.58	3,029.73	1,715.44	1,641.03	74.40	23.056
7,400.00	5,686.00	5,960.14	4,338.78	53.72	76.89	-38.27	1,822.07	3,000.05	1,719.53	1,648.37	71.17	24.163
7,500.00	5,686.00	5,917.17	4,313.82	53.06	76.10	-36.97	1,803.56	2,970.37	1,728.35	1,659.86	68.49	25.236
7,600.00	5,686.00	5,874.20	4,288.86	52.42	75.31	-35.68	1,785.06	2,940.69	1,741.80	1,675.38	66.42	26.223
7,700.00	5,686.00	5,831.23	4,263.90	51.82	74.52	-34.40	1,766.55	2,911.00	1,759.80	1,694.80	65.00	27.074
7,800.00	5,686.00	5,788.26	4,238.95	51.23	73.73	-33.12	1,748.04	2,881.32	1,782.19	1,717.97	64.21	27.754
7,900.00	5,686.00	5,745.29	4,213.99	50.68	72.94	-31.84	1,729.54	2,851.64	1,808.81	1,744.79	64.02	28.252
8,000.00	5,686.00	5,702.32	4,189.03	50.15	72.15	-30.58	1,711.03	2,821.96	1,839.49	1,775.12	64.37	28.578
8,100.00	5,686.00	5,659.35	4,164.07	49.64	71.36	-29.32	1,692.52	2,792.28	1,874.02	1,808.87	65.16	28.762
8,200.00	5,686.00	5,616.38	4,139.11	49.17	70.57	-28.07	1,674.02	2,762.60	1,912.20	1,845.91	66.29	28.846
8,300.00	5,686.00	5,573.41	4,114.15	48.71	69.79	-26.84	1,655.51	2,732.92	1,953.80	1,886.13	67.68	28.870
8,400.00	5,686.00	5,530.44	4,089.20	48.28	69.00	-25.62	1,637.01	2,703.24	1,998.62	1,929.40	69.23	28.871
8,500.00	5,686.00	5,487.47	4,064.24	47.88	68.21	-24.41	1,618.50	2,673.56	2,046.45	1,975.58	70.87	28.877
8,600.00	5,686.00	5,444.50	4,039.28	47.51	67.42	-23.21	1,599.99	2,643.87	2,097.07	2,024.54	72.54	28.910
8,700.00	5,686.00	5,401.53	4,014.32	47.16	66.63	-22.03	1,581.49	2,614.19	2,150.30	2,076.11	74.19	28.982

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-25-9 - 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)
8,800.00	5,686.00	5,358.57	3,989.36	46.84	65.84	-20.87	1,562.98	2,584.51	2,205.94	2,130.14	75.80	29.102	
8,900.00	5,686.00	5,315.60	3,964.40	46.56	65.05	-19.72	1,544.47	2,554.83	2,263.82	2,186.49	77.33	29.275	
9,000.00	5,686.00	5,272.63	3,939.45	46.31	64.27	-18.59	1,525.97	2,525.15	2,323.76	2,244.99	78.77	29.501	
9,100.00	5,686.00	5,229.66	3,914.49	46.12	63.48	-17.48	1,507.46	2,495.47	2,385.61	2,305.51	80.11	29.780	
9,200.00	5,686.00	5,186.69	3,889.53	45.98	62.69	-16.38	1,488.95	2,465.79	2,449.24	2,367.90	81.34	30.111	
9,300.00	5,686.00	5,143.72	3,864.57	45.93	61.90	-15.30	1,470.45	2,436.11	2,514.49	2,432.03	82.46	30.492	
9,400.00	5,686.00	5,100.75	3,839.61	46.00	61.11	-14.24	1,451.94	2,406.42	2,581.26	2,497.78	83.48	30.921	
9,500.00	5,686.00	5,057.78	3,814.65	46.23	60.33	-13.20	1,433.44	2,376.74	2,649.42	2,565.03	84.39	31.395	
9,600.00	5,686.00	10,926.68	5,686.00	46.66	103.49	-90.00	-485.34	4,608.74	2,668.13	2,570.41	97.73	27.302	
9,700.00	5,686.00	11,026.68	5,686.00	47.29	103.31	-90.00	-585.34	4,608.94	2,668.19	2,568.82	99.36	26.852	
9,800.00	5,686.00	11,126.68	5,686.00	48.12	103.13	-90.00	-685.34	4,609.14	2,668.24	2,567.14	101.10	26.392	
9,900.00	5,686.00	11,226.68	5,686.00	49.08	102.97	-90.00	-785.34	4,609.34	2,668.30	2,565.37	102.93	25.924	
10,000.00	5,686.00	11,326.68	5,686.00	50.16	102.82	-90.00	-885.34	4,609.54	2,668.35	2,563.50	104.85	25.450	
10,100.00	5,686.00	11,426.68	5,686.00	51.32	102.68	-90.00	-985.34	4,609.73	2,668.41	2,561.56	106.85	24.974	
10,200.00	5,686.00	11,526.68	5,686.00	52.53	102.56	-90.00	-1,085.34	4,609.93	2,668.46	2,559.53	108.93	24.497	
10,300.00	5,686.00	11,626.68	5,686.00	53.79	102.44	-90.00	-1,185.34	4,610.13	2,668.51	2,557.43	111.08	24.022	
10,400.00	5,686.00	11,726.68	5,686.00	55.09	102.34	-90.00	-1,285.34	4,610.33	2,668.57	2,555.26	113.31	23.551	
10,500.00	5,686.00	11,826.68	5,686.00	56.42	102.26	-90.00	-1,385.34	4,610.52	2,668.62	2,553.02	115.60	23.084	
10,600.00	5,686.00	11,926.68	5,686.00	57.77	102.19	-90.00	-1,485.34	4,610.72	2,668.68	2,550.72	117.96	22.624	
10,700.00	5,686.00	12,026.68	5,686.00	59.15	102.13	-90.00	-1,585.34	4,610.92	2,668.73	2,548.36	120.37	22.170	
10,800.00	5,686.00	12,126.68	5,686.00	60.55	102.09	-90.00	-1,685.34	4,611.12	2,668.79	2,545.94	122.84	21.725	
10,900.00	5,686.00	12,226.68	5,686.00	61.97	102.07	-90.00	-1,785.34	4,611.32	2,668.84	2,543.47	125.37	21.289	
11,000.00	5,686.00	12,326.68	5,686.00	63.40	102.07	-90.00	-1,885.34	4,611.51	2,668.89	2,540.96	127.94	20.861	
11,100.00	5,686.00	12,426.68	5,686.00	64.85	102.08	-90.00	-1,985.34	4,611.71	2,668.95	2,538.39	130.55	20.443	
11,200.00	5,686.00	12,526.68	5,686.00	66.32	102.12	-90.00	-2,085.34	4,611.91	2,669.00	2,535.79	133.21	20.035	
11,300.00	5,686.00	12,626.68	5,686.00	67.80	102.19	-90.00	-2,185.34	4,612.11	2,669.06	2,533.14	135.92	19.637	
11,400.00	5,686.00	12,726.68	5,686.00	69.29	102.28	-90.00	-2,285.34	4,612.30	2,669.11	2,530.45	138.66	19.250	
11,500.00	5,686.00	12,826.68	5,686.00	70.79	102.40	-90.00	-2,385.34	4,612.50	2,669.17	2,527.73	141.44	18.872	
11,600.00	5,686.00	12,926.68	5,686.00	72.30	102.54	-90.00	-2,485.34	4,612.70	2,669.22	2,524.97	144.25	18.504	
11,700.00	5,686.00	13,026.68	5,686.00	73.83	102.73	-90.00	-2,585.34	4,612.90	2,669.27	2,522.18	147.09	18.147	
11,800.00	5,686.00	13,126.68	5,686.00	75.36	102.95	-90.00	-2,685.34	4,613.10	2,669.33	2,519.36	149.97	17.799	
11,900.00	5,686.00	13,226.68	5,686.00	76.90	103.21	-90.00	-2,785.34	4,613.29	2,669.38	2,516.51	152.87	17.462	
12,000.00	5,686.00	13,326.68	5,686.00	78.45	103.51	-90.00	-2,885.34	4,613.49	2,669.44	2,513.64	155.80	17.134	
12,100.00	5,686.00	13,426.68	5,686.00	80.01	103.86	-90.00	-2,985.34	4,613.69	2,669.49	2,510.73	158.76	16.815	
12,200.00	5,686.00	13,526.68	5,686.00	81.58	104.26	-90.00	-3,085.34	4,613.89	2,669.55	2,507.81	161.74	16.505	
12,300.00	5,686.00	13,626.68	5,686.00	83.15	104.71	-90.00	-3,185.33	4,614.09	2,669.60	2,504.86	164.74	16.205	
12,400.00	5,686.00	13,726.68	5,686.00	84.73	105.22	-90.00	-3,285.33	4,614.28	2,669.65	2,501.88	167.77	15.913	
12,500.00	5,686.00	13,826.68	5,686.00	86.32	105.79	-90.00	-3,385.33	4,614.48	2,669.71	2,498.89	170.82	15.629	
12,600.00	5,686.00	13,926.68	5,686.00	87.91	106.42	-90.00	-3,485.33	4,614.68	2,669.76	2,495.88	173.88	15.354	
12,700.00	5,686.00	14,026.68	5,686.00	89.51	107.11	-90.00	-3,585.33	4,614.88	2,669.82	2,492.85	176.97	15.086	
12,800.00	5,686.00	14,126.68	5,686.00	91.12	107.86	-90.00	-3,685.33	4,615.07	2,669.87	2,489.80	180.07	14.827	
12,900.00	5,686.00	14,226.68	5,686.00	92.73	108.67	-90.00	-3,785.33	4,615.27	2,669.93	2,486.74	183.19	14.575	
13,000.00	5,686.00	14,326.68	5,686.00	94.35	109.54	-90.00	-3,885.33	4,615.47	2,669.98	2,483.65	186.33	14.330	
13,100.00	5,686.00	14,426.68	5,686.00	95.97	110.48	-90.00	-3,985.33	4,615.67	2,670.04	2,480.56	189.48	14.092	
13,200.00	5,686.00	14,526.68	5,686.00	97.59	111.46	-90.00	-4,085.33	4,615.87	2,670.09	2,477.45	192.64	13.860	
13,300.00	5,686.00	14,626.68	5,686.00	99.22	112.50	-90.00	-4,185.33	4,616.06	2,670.14	2,474.32	195.82	13.636	
13,400.00	5,686.00	14,726.68	5,686.00	100.86	113.59	-90.00	-4,285.33	4,616.26	2,670.20	2,471.19	199.01	13.417	
13,500.00	5,686.00	14,826.68	5,686.00	102.50	114.73	-90.00	-4,385.33	4,616.46	2,670.25	2,468.04	202.21	13.205	
13,600.00	5,686.00	14,926.68	5,686.00	104.14	115.90	-90.00	-4,485.33	4,616.66	2,670.31	2,464.88	205.43	12.999	
13,700.00	5,686.00	15,026.68	5,686.00	105.79	117.12	-90.00	-4,585.33	4,616.85	2,670.36	2,461.70	208.66	12.798	
13,800.00	5,686.00	15,126.68	5,686.00	107.44	118.37	-90.00	-4,685.33	4,617.05	2,670.42	2,458.52	211.90	12.603	
13,900.00	5,686.00	15,226.68	5,686.00	109.09	119.65	-90.00	-4,785.33	4,617.25	2,670.47	2,455.33	215.14	12.413	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-25-9 - 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	
14,000.00	5,686.00	15,326.68	5,686.00	110.75	120.97	-90.00	-4,885.33	4,617.45	2,670.52	2,452.12	218.40	12.228	
14,100.00	5,686.00	15,426.68	5,686.00	112.41	122.31	-90.00	-4,985.33	4,617.65	2,670.58	2,448.91	221.67	12.048	
14,200.00	5,686.00	15,526.68	5,686.00	114.08	123.67	-90.00	-5,085.33	4,617.84	2,670.63	2,445.69	224.94	11.872	
14,300.00	5,686.00	15,626.68	5,686.00	115.74	125.06	-90.00	-5,185.33	4,618.04	2,670.69	2,442.46	228.23	11.702	
14,400.00	5,686.00	15,726.68	5,686.00	117.41	126.47	-90.00	-5,285.33	4,618.24	2,670.74	2,439.22	231.52	11.536	
14,500.00	5,686.00	15,826.68	5,686.00	119.09	127.90	-90.00	-5,385.33	4,618.44	2,670.80	2,435.97	234.82	11.374	
14,578.25	5,686.00	15,904.93	5,686.00	120.40	129.03	-90.00	-5,463.58	4,618.59	2,670.84	2,433.43	237.41	11.250	
14,580.87	5,686.00	15,907.55	5,686.00	120.44	129.06	-90.00	-5,466.20	4,618.60	2,670.84	2,433.34	237.50	11.246	
14,600.00	5,686.00	15,926.68	5,686.00	120.76	129.34	-90.00	-5,485.33	4,618.63	2,670.88	2,432.75	238.13	11.216	
14,678.08	5,686.00	16,004.76	5,686.00	122.07	130.48	-90.00	-5,563.41	4,618.79	2,671.03	2,430.31	240.72	11.096 SF	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-1 - 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)			
0.00	0.00	0.00	0.00	0.00	0.00	-91.04	-1.45	-80.09	80.10				
100.00	100.00	100.00	100.00	0.14	0.14	-91.04	-1.45	-80.09	80.10	79.81	0.29	279.314	
200.00	200.00	200.00	200.00	0.50	0.50	-91.04	-1.45	-80.09	80.10	79.10	1.00	79.804	
300.00	300.00	300.00	300.00	0.86	0.86	-91.04	-1.45	-80.09	80.10	78.38	1.72	46.552 CC	
400.00	400.00	399.05	399.01	1.22	1.22	-89.25	1.05	-80.67	80.68	78.24	2.43	33.147 ES	
500.00	500.00	497.57	497.22	1.58	1.58	-84.11	8.50	-82.38	82.87	79.72	3.15	26.299	
600.00	600.00	595.05	593.87	1.94	1.95	-76.34	20.71	-85.20	87.90	84.02	3.88	22.669	
700.00	700.00	691.00	688.27	2.29	2.35	-67.21	37.41	-89.06	97.31	92.70	4.61	21.116	
800.00	800.00	784.99	779.80	2.65	2.78	-58.18	58.23	-93.86	112.29	106.96	5.33	21.082	
900.00	900.00	876.64	867.92	3.01	3.24	-50.26	82.73	-99.52	133.33	127.31	6.02	22.159	
1,000.00	1,000.00	965.64	952.24	3.37	3.75	-43.80	110.44	-105.91	160.29	153.62	6.68	24.013	
1,100.00	1,100.00	1,051.72	1,032.46	3.73	4.28	-38.72	140.85	-112.93	192.75	185.46	7.29	26.443	
1,200.00	1,200.00	1,134.70	1,108.38	4.09	4.85	-34.78	173.47	-120.46	230.21	222.32	7.89	29.185	
1,300.00	1,300.00	1,214.44	1,179.90	4.45	5.44	-31.71	207.82	-128.39	272.20	263.75	8.46	32.194	
1,400.00	1,399.95	1,291.62	1,247.66	4.80	6.06	-60.95	243.80	-136.69	317.23	308.23	9.00	35.244	
1,500.00	1,499.63	1,373.98	1,318.54	5.16	6.77	-58.60	284.67	-146.12	363.21	353.58	9.63	37.720	
1,600.00	1,598.77	1,463.75	1,395.59	5.52	7.57	-57.18	329.56	-156.48	407.23	396.85	10.38	39.239	
1,700.00	1,697.08	1,554.68	1,473.64	5.90	8.38	-56.52	375.02	-166.98	448.69	437.52	11.17	40.162	
1,800.00	1,794.31	1,646.51	1,552.46	6.30	9.22	-56.42	420.93	-177.57	487.58	475.56	12.02	40.568	
1,900.00	1,890.18	1,739.00	1,631.84	6.73	10.06	-56.77	467.17	-188.24	523.97	511.04	12.93	40.524	
2,000.00	1,984.43	1,831.88	1,711.56	7.20	10.92	-57.48	513.61	-198.96	557.99	544.07	13.92	40.091	
2,100.00	2,076.81	1,924.91	1,791.41	7.73	11.78	-58.50	560.12	-209.70	589.83	574.83	15.00	39.326	
2,200.00	2,167.06	2,017.82	1,871.16	8.33	12.64	-59.79	606.58	-220.42	619.75	603.57	16.19	38.286	
2,300.00	2,254.93	2,110.38	1,950.60	8.99	13.51	-61.31	652.86	-231.10	648.04	630.54	17.50	37.030	
2,400.00	2,340.18	2,202.31	2,029.51	9.74	14.37	-63.02	698.82	-241.71	675.03	656.08	18.95	35.621	
2,500.00	2,422.59	2,293.37	2,107.67	10.56	15.22	-64.90	744.35	-252.22	701.10	680.55	20.55	34.121	
2,600.00	2,501.91	2,383.31	2,184.87	11.47	16.06	-66.91	789.32	-262.60	726.65	704.35	22.30	32.591	
2,700.00	2,577.95	2,471.89	2,260.89	12.47	16.90	-69.03	833.60	-272.82	752.11	727.91	24.19	31.086	
2,799.34	2,650.00	2,558.28	2,335.05	13.55	17.71	-71.19	876.80	-282.79	777.76	751.54	26.22	29.662	
2,800.00	2,650.47	2,558.86	2,335.54	13.55	17.71	-71.21	877.09	-282.85	777.93	751.70	26.23	29.653	
2,900.00	2,721.21	2,644.95	2,409.43	14.70	18.52	-74.10	920.13	-292.79	805.28	776.92	28.36	28.395	
3,000.00	2,791.95	2,731.04	2,483.33	15.87	19.34	-76.83	963.18	-302.72	834.84	804.33	30.51	27.362	
3,100.00	2,862.68	2,817.14	2,557.22	17.07	20.15	-79.40	1,006.22	-312.66	866.38	833.71	32.67	26.520	
3,200.00	2,933.42	2,903.23	2,631.12	18.29	20.96	-81.82	1,049.27	-322.59	899.69	864.87	34.82	25.836	
3,300.00	3,004.15	2,989.32	2,705.01	19.53	21.77	-84.09	1,092.31	-332.53	934.59	897.62	36.97	25.283	
3,400.00	3,074.89	3,075.42	2,778.91	20.77	22.59	-86.21	1,135.35	-342.46	970.89	931.81	39.09	24.838	
3,500.00	3,145.62	3,161.51	2,852.80	22.03	23.40	-88.20	1,178.40	-352.39	1,008.46	967.27	41.19	24.481	
3,600.00	3,216.36	3,247.60	2,926.70	23.30	24.22	-90.07	1,221.44	-362.33	1,047.15	1,003.88	43.28	24.197	
3,700.00	3,287.09	3,333.69	3,000.59	24.57	25.03	-91.81	1,264.49	-372.26	1,086.85	1,041.51	45.34	23.974	
3,800.00	3,357.83	3,419.79	3,074.49	25.85	25.85	-93.45	1,307.53	-382.20	1,127.44	1,080.07	47.37	23.799	
3,900.00	3,428.56	3,505.88	3,148.38	27.14	26.66	-94.98	1,350.58	-392.13	1,168.84	1,119.45	49.39	23.666	
4,000.00	3,499.30	3,591.97	3,222.28	28.43	27.48	-96.42	1,393.62	-402.07	1,210.96	1,159.58	51.39	23.566	
4,100.00	3,570.03	3,678.07	3,296.17	29.73	28.29	-97.77	1,436.67	-412.00	1,253.73	1,200.37	53.36	23.494	
4,200.00	3,640.77	3,764.16	3,370.07	31.03	29.11	-99.04	1,479.71	-421.94	1,297.09	1,241.76	55.32	23.445	
4,300.00	3,711.50	3,850.25	3,443.96	32.33	29.93	-100.23	1,522.76	-431.87	1,340.97	1,283.70	57.27	23.416	
4,400.00	3,782.24	3,936.35	3,517.86	33.64	30.74	-101.35	1,565.80	-441.81	1,385.33	1,326.14	59.20	23.403	
4,500.00	3,852.97	4,022.44	3,591.75	34.95	31.56	-102.41	1,608.85	-451.74	1,430.13	1,369.02	61.11	23.403	
4,600.00	3,923.71	4,108.53	3,665.65	36.26	32.38	-103.41	1,651.89	-461.68	1,475.31	1,412.30	63.01	23.414	
4,700.00	3,994.44	4,194.63	3,739.54	37.57	33.19	-104.35	1,694.94	-471.61	1,520.86	1,455.96	64.90	23.434	
4,800.00	4,065.18	4,280.72	3,813.44	38.88	34.01	-105.24	1,737.98	-481.55	1,566.74	1,499.96	66.78	23.462	
4,900.00	4,135.92	4,366.81	3,887.33	40.20	34.83	-106.08	1,781.03	-491.48	1,612.91	1,544.27	68.65	23.496	
5,000.00	4,206.65	4,452.91	3,961.23	41.52	35.64	-106.88	1,824.07	-501.41	1,659.36	1,588.86	70.50	23.536	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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:		SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-1 - 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)					
5,100.00	4,277.39	4,539.00	4,035.12	42.84	36.46	-107.63	1,867.12	-511.35	1,706.07	1,633.71	72.35	23.579				
5,200.00	4,348.12	4,625.09	4,109.02	44.16	37.28	-108.35	1,910.16	-521.28	1,753.00	1,678.80	74.20	23.626				
5,300.00	4,418.86	4,711.19	4,182.91	45.48	38.10	-109.03	1,953.21	-531.22	1,800.15	1,724.12	76.03	23.676				
5,400.00	4,489.59	4,797.28	4,256.81	46.80	38.91	-109.68	1,996.25	-541.15	1,847.49	1,769.63	77.86	23.728				
5,500.00	4,560.33	4,883.37	4,330.70	48.12	39.73	-110.30	2,039.30	-551.09	1,895.02	1,815.34	79.68	23.782				
5,600.00	4,631.06	4,969.47	4,404.60	49.45	40.55	-110.89	2,082.34	-561.02	1,942.72	1,861.22	81.50	23.837				
5,700.00	4,701.80	5,055.56	4,478.49	50.77	41.37	-111.45	2,125.39	-570.96	1,990.58	1,907.27	83.31	23.893				
5,800.00	4,772.53	5,141.65	4,552.39	52.10	42.19	-111.99	2,168.43	-580.89	2,038.58	1,953.46	85.12	23.950				
5,900.00	4,843.27	5,227.75	4,626.29	53.42	43.00	-112.50	2,211.48	-590.83	2,086.72	1,999.79	86.92	24.007				
5,954.41	4,881.76	5,274.59	4,666.49	54.14	43.45	-112.77	2,234.90	-596.23	2,112.96	2,025.06	87.90	24.038				
6,000.00	4,914.92	5,313.82	4,700.17	54.73	43.82	-118.75	2,254.51	-600.76	2,135.48	2,046.77	88.71	24.073				
6,050.00	4,953.22	5,356.62	4,736.90	55.35	44.23	-126.12	2,275.91	-605.70	2,161.22	2,071.66	89.56	24.130				
6,100.00	4,993.27	5,398.86	4,773.16	55.92	44.63	-134.44	2,297.03	-610.57	2,187.85	2,097.47	90.38	24.207				
6,150.00	5,034.75	5,440.22	4,808.66	56.45	45.02	-143.80	2,317.71	-615.35	2,215.19	2,124.04	91.15	24.304				
6,200.00	5,077.34	5,478.48	4,841.52	56.91	45.38	-154.23	2,336.78	-619.76	2,243.05	2,151.24	91.81	24.430				
6,250.00	5,120.74	5,510.53	4,869.67	57.32	45.67	-165.71	2,351.62	-623.55	2,271.37	2,179.07	92.30	24.608				
6,300.00	5,164.59	5,542.44	4,898.48	57.67	45.93	-177.88	2,364.79	-627.43	2,299.99	2,207.27	92.72	24.806				
6,350.00	5,208.58	5,574.34	4,927.96	57.94	46.16	-169.76	2,376.31	-631.40	2,328.72	2,235.67	93.06	25.025				
6,400.00	5,252.36	5,606.37	4,958.14	58.15	46.37	-157.78	2,386.20	-635.47	2,357.38	2,264.04	93.33	25.258				
6,450.00	5,295.61	5,638.68	4,989.10	58.30	46.56	-146.67	2,394.43	-639.64	2,385.77	2,292.23	93.54	25.506				
6,500.00	5,337.99	5,671.45	5,020.92	58.38	46.71	-136.70	2,400.98	-643.93	2,413.73	2,320.04	93.68	25.765				
6,550.00	5,379.18	5,704.91	5,053.73	58.40	46.85	-127.96	2,405.75	-648.37	2,441.07	2,347.30	93.78	26.031				
6,600.00	5,418.87	5,739.32	5,087.70	58.36	46.95	-120.41	2,408.63	-652.95	2,467.65	2,373.84	93.81	26.305				
6,650.00	5,456.75	5,774.98	5,123.03	58.27	47.02	-113.94	2,409.45	-657.73	2,493.29	2,399.50	93.79	26.584				
6,700.00	5,492.54	5,812.28	5,159.96	58.14	47.07	-108.44	2,407.92	-662.72	2,517.85	2,424.13	93.73	26.864				
6,750.00	5,525.96	5,851.69	5,198.78	57.96	47.09	-103.79	2,403.68	-667.98	2,541.18	2,447.56	93.62	27.144				
6,800.00	5,556.77	5,893.82	5,239.85	57.74	47.07	-99.90	2,396.18	-673.54	2,563.13	2,469.67	93.46	27.426				
6,850.00	5,584.72	5,939.42	5,283.56	57.49	47.02	-96.69	2,384.66	-679.47	2,583.55	2,490.31	93.24	27.709				
6,900.00	5,609.61	5,989.48	5,330.33	57.20	46.92	-94.11	2,368.02	-685.81	2,602.31	2,509.35	92.96	27.995				
6,950.00	5,631.24	6,045.25	5,380.51	56.90	46.77	-92.09	2,344.71	-692.63	2,619.25	2,526.66	92.59	28.289				
7,000.00	5,649.44	6,108.34	5,434.26	56.57	46.54	-90.62	2,312.56	-699.93	2,634.20	2,542.10	92.10	28.600				
7,050.00	5,664.09	6,180.72	5,491.17	56.22	46.21	-89.65	2,268.59	-707.69	2,646.98	2,555.51	91.46	28.940				
7,100.00	5,675.07	6,264.64	5,549.66	55.87	45.76	-89.17	2,209.05	-715.67	2,657.35	2,566.73	90.62	29.324				
7,150.00	5,682.29	6,341.01	5,594.62	55.50	45.30	-88.91	2,147.72	-721.83	2,665.05	2,575.32	89.73	29.699				
7,200.00	5,685.71	6,474.62	5,653.27	55.14	44.42	-89.41	2,028.33	-729.92	2,669.78	2,581.65	88.13	30.295				
7,219.51	5,686.00	6,522.27	5,667.20	54.99	44.10	-89.60	1,982.82	-731.86	2,670.74	2,583.23	87.51	30.520				
7,300.00	5,686.00	6,693.86	5,686.00	54.42	42.94	-90.00	1,812.86	-734.62	2,671.94	2,586.73	85.21	31.357				
7,400.00	5,686.00	6,793.86	5,686.00	53.72	42.33	-90.00	1,712.86	-734.75	2,672.21	2,588.28	83.93	31.838				
7,500.00	5,686.00	6,893.86	5,686.00	53.06	41.77	-90.00	1,612.86	-734.88	2,672.49	2,589.70	82.78	32.283				
7,600.00	5,686.00	6,993.86	5,686.00	52.42	41.28	-90.00	1,512.87	-735.01	2,672.76	2,590.99	81.78	32.684				
7,700.00	5,686.00	7,093.86	5,686.00	51.82	40.86	-90.00	1,412.87	-735.14	2,673.04	2,592.12	80.91	33.036				
7,800.00	5,686.00	7,193.86	5,686.00	51.23	40.50	-90.00	1,312.87	-735.27	2,673.31	2,593.11	80.20	33.334				
7,900.00	5,686.00	7,293.86	5,686.00	50.68	40.22	-90.00	1,212.87	-735.40	2,673.58	2,593.95	79.64	33.572				
8,000.00	5,686.00	7,393.86	5,686.00	50.15	40.01	-90.00	1,112.87	-735.54	2,673.86	2,594.63	79.23	33.748				
8,100.00	5,686.00	7,493.86	5,686.00	49.64	39.87	-90.00	1,012.87	-735.67	2,674.13	2,595.15	78.98	33.856				
8,200.00	5,686.00	7,593.85	5,686.00	49.17	39.81	-90.00	912.87	-735.80	2,674.41	2,595.51	78.90	33.897				
8,300.00	5,686.00	7,693.85	5,686.00	48.71	39.84	-90.00	812.87	-735.93	2,674.68	2,595.71	78.97	33.869				
8,400.00	5,686.00	7,793.85	5,686.00	48.28	39.94	-90.00	712.87	-736.06	2,674.95	2,595.75	79.21	33.772				
8,500.00	5,686.00	7,893.85	5,686.00	47.88	40.12	-90.00	612.87	-736.19	2,675.23	2,595.63	79.60	33.609				
8,600.00	5,686.00	7,993.85	5,686.00	47.51	40.39	-90.00	512.87	-736.32	2,675.50	2,595.35	80.15	33.382				
8,700.00	5,686.00	8,093.85	5,686.00	47.16	40.73	-90.00	412.87	-736.45	2,675.77	2,594.92	80.85	33.095				
8,800.00	5,686.00	8,193.85	5,686.00	46.84	41.16	-90.00	312.87	-736.58	2,676.05	2,594.35	81.70	32.754				

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-1 - 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)			
8,900.00	5,686.00	8,293.85	5,686.00	46.56	41.67	90.00	212.87	-736.71	2,676.32	2,593.62	82.70	32.362	
9,000.00	5,686.00	8,393.85	5,686.00	46.31	42.25	90.00	112.87	-736.84	2,676.60	2,592.76	83.83	31.927	
9,100.00	5,686.00	8,493.85	5,686.00	46.12	42.90	90.00	12.87	-736.97	2,676.87	2,591.77	85.10	31.454	
9,200.00	5,686.00	8,593.85	5,686.00	45.98	43.62	90.00	-87.13	-737.10	2,677.14	2,590.64	86.50	30.949	
9,300.00	5,686.00	8,693.85	5,686.00	45.93	44.41	90.00	-187.13	-737.23	2,677.42	2,589.40	88.02	30.417	
9,400.00	5,686.00	8,793.85	5,686.00	46.00	45.25	90.00	-287.13	-737.36	2,677.69	2,588.03	89.66	29.866	
9,500.00	5,686.00	8,893.85	5,686.00	46.23	46.16	90.00	-387.13	-737.49	2,677.97	2,586.56	91.40	29.298	
9,600.00	5,686.00	8,993.85	5,686.00	46.66	47.12	90.00	-487.13	-737.62	2,678.24	2,584.99	93.25	28.720	
9,700.00	5,686.00	9,093.85	5,686.00	47.29	48.13	90.00	-587.13	-737.75	2,678.51	2,583.31	95.20	28.136	
9,800.00	5,686.00	9,193.85	5,686.00	48.12	49.18	90.00	-687.12	-737.88	2,678.79	2,581.55	97.24	27.549	
9,900.00	5,686.00	9,293.85	5,686.00	49.08	50.28	90.00	-787.12	-738.01	2,679.06	2,579.70	99.36	26.963	
10,000.00	5,686.00	9,393.85	5,686.00	50.16	51.42	90.00	-887.12	-738.14	2,679.34	2,577.77	101.57	26.380	
10,100.00	5,686.00	9,493.85	5,686.00	51.32	52.59	90.00	-987.12	-738.27	2,679.61	2,575.76	103.85	25.804	
10,200.00	5,686.00	9,593.85	5,686.00	52.53	53.80	90.00	-1,087.12	-738.40	2,679.88	2,573.69	106.20	25.235	
10,300.00	5,686.00	9,693.85	5,686.00	53.79	55.04	90.00	-1,187.12	-738.53	2,680.16	2,571.54	108.61	24.676	
10,400.00	5,686.00	9,793.85	5,686.00	55.09	56.32	90.00	-1,287.12	-738.66	2,680.43	2,569.34	111.09	24.128	
10,500.00	5,686.00	9,893.85	5,686.00	56.42	57.61	90.00	-1,387.12	-738.80	2,680.70	2,567.08	113.63	23.592	
10,600.00	5,686.00	9,993.85	5,686.00	57.77	58.94	90.00	-1,487.12	-738.93	2,680.98	2,564.76	116.22	23.069	
10,700.00	5,686.00	10,093.85	5,686.00	59.15	60.29	90.00	-1,587.12	-739.06	2,681.25	2,562.40	118.86	22.559	
10,800.00	5,686.00	10,193.85	5,686.00	60.55	61.66	90.00	-1,687.12	-739.19	2,681.53	2,559.98	121.54	22.062	
10,900.00	5,686.00	10,293.84	5,686.00	61.97	63.05	90.00	-1,787.12	-739.32	2,681.80	2,557.52	124.28	21.579	
11,000.00	5,686.00	10,393.84	5,686.00	63.40	64.46	90.00	-1,887.12	-739.45	2,682.07	2,555.03	127.05	21.111	
11,100.00	5,686.00	10,493.84	5,686.00	64.85	65.89	90.00	-1,987.12	-739.58	2,682.35	2,552.49	129.86	20.656	
11,200.00	5,686.00	10,593.84	5,686.00	66.32	67.33	90.00	-2,087.12	-739.71	2,682.62	2,549.91	132.71	20.215	
11,300.00	5,686.00	10,693.84	5,686.00	67.80	68.80	90.00	-2,187.12	-739.84	2,682.90	2,547.31	135.59	19.787	
11,400.00	5,686.00	10,793.84	5,686.00	69.29	70.27	90.00	-2,287.12	-739.97	2,683.17	2,544.67	138.50	19.373	
11,500.00	5,686.00	10,893.84	5,686.00	70.79	71.76	90.00	-2,387.12	-740.10	2,683.44	2,542.00	141.44	18.972	
11,600.00	5,686.00	10,993.84	5,686.00	72.30	73.26	90.00	-2,487.12	-740.23	2,683.72	2,539.30	144.42	18.583	
11,700.00	5,686.00	11,093.84	5,686.00	73.83	74.78	90.00	-2,587.12	-740.36	2,683.99	2,536.58	147.41	18.207	
11,800.00	5,686.00	11,193.84	5,686.00	75.36	76.31	90.00	-2,687.12	-740.49	2,684.27	2,533.83	150.43	17.844	
11,900.00	5,686.00	11,293.84	5,686.00	76.90	77.84	90.00	-2,787.12	-740.62	2,684.54	2,531.06	153.48	17.491	
12,000.00	5,686.00	11,393.84	5,686.00	78.45	79.39	90.00	-2,887.11	-740.75	2,684.81	2,528.27	156.55	17.150	
12,100.00	5,686.00	11,493.84	5,686.00	80.01	80.95	90.00	-2,987.11	-740.88	2,685.09	2,525.45	159.63	16.820	
12,200.00	5,686.00	11,593.84	5,686.00	81.58	82.51	90.00	-3,087.11	-741.01	2,685.36	2,522.62	162.74	16.501	
12,300.00	5,686.00	11,693.84	5,686.00	83.15	83.99	90.00	-3,187.11	-741.15	2,685.63	2,520.05	165.86	16.215	
12,400.00	5,686.00	11,793.84	5,686.00	84.73	85.58	90.00	-3,287.11	-741.28	2,685.90	2,517.47	169.00	15.944	
12,500.00	5,686.00	11,893.84	5,686.00	86.32	86.59	90.00	-3,387.11	-741.41	2,686.17	2,514.89	172.16	15.684	
12,600.00	5,686.00	11,993.84	5,686.00	87.91	87.64	90.00	-3,487.11	-741.54	2,686.44	2,512.31	175.33	15.434	
12,700.00	5,686.00	12,093.84	5,686.00	89.50	88.47	90.00	-3,587.11	-741.67	2,686.71	2,509.73	178.50	15.194	
12,800.00	5,686.00	12,193.84	5,686.00	91.09	89.44	90.00	-3,687.11	-741.80	2,686.98	2,507.15	181.67	14.964	
12,900.00	5,686.00	12,293.84	5,686.00	92.68	90.41	90.00	-3,787.11	-741.93	2,687.25	2,504.57	184.84	14.734	
13,000.00	5,686.00	12,393.84	5,686.00	94.27	91.38	90.00	-3,887.11	-742.06	2,687.52	2,502.00	188.00	14.504	
13,100.00	5,686.00	12,493.84	5,686.00	95.86	92.35	90.00	-3,987.11	-742.19	2,687.79	2,499.42	191.17	14.274	
13,200.00	5,686.00	12,593.84	5,686.00	97.45	93.32	90.00	-4,087.11	-742.32	2,688.06	2,496.84	194.33	14.044	
13,300.00	5,686.00	12,693.84	5,686.00	99.04	94.29	90.00	-4,187.11	-742.45	2,688.33	2,494.26	197.50	13.814	
13,400.00	5,686.00	12,793.84	5,686.00	100.63	95.26	90.00	-4,287.11	-742.58	2,688.60	2,491.68	200.67	13.584	
13,500.00	5,686.00	12,893.84	5,686.00	102.22	96.23	90.00	-4,387.11	-742.71	2,688.87	2,489.10	203.83	13.354	
13,600.00	5,686.00	12,993.84	5,686.00	103.81	97.20	90.00	-4,487.11	-742.84	2,689.14	2,486.52	207.00	13.124	
13,700.00	5,686.00	13,093.84	5,686.00	105.40	98.17	90.00	-4,587.11	-742.97	2,689.41	2,483.94	210.17	12.894	
13,800.00	5,686.00	13,193.84	5,686.00	106.99	99.14	90.00	-4,687.11	-743.10	2,689.68	2,481.36	213.33	12.664	
13,900.00	5,686.00	13,293.84	5,686.00	108.58	100.11	90.00	-4,787.11	-743.23	2,689.95	2,478.78	216.50	12.434	
14,000.00	5,686.00	13,393.84	5,686.00	110.17	101.08	90.00	-4,887.11	-743.36	2,690.22	2,476.20	219.67	12.204	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-1 - 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)			
14,100.00	5,686.00	13,029.72	5,686.00	112.41	104.68	90.00	-4,507.23	-939.48	2,926.74	2,715.44	211.31	13.851	
14,200.00	5,686.00	13,128.33	5,686.00	114.08	106.24	90.00	-4,604.48	-955.76	2,943.40	2,728.91	214.49	13.723	
14,300.00	5,686.00	13,226.93	5,686.00	115.74	107.81	90.00	-4,701.73	-972.05	2,960.06	2,742.37	217.69	13.598	
14,400.00	5,686.00	13,325.53	5,686.00	117.41	109.38	90.00	-4,798.98	-988.33	2,976.72	2,755.82	220.90	13.476	
14,500.00	5,686.00	13,424.13	5,686.00	119.09	110.96	90.00	-4,896.23	-1,004.62	2,993.37	2,769.26	224.11	13.357	
14,578.25	5,686.00	13,501.29	5,686.00	120.40	112.20	90.00	-4,972.32	-1,017.36	3,006.41	2,779.78	226.63	13.266	
14,580.87	5,686.00	13,503.88	5,686.00	120.44	112.24	90.00	-4,974.87	-1,017.79	3,006.84	2,780.13	226.71	13.263	
14,600.00	5,686.00	13,522.74	5,686.00	120.76	112.54	90.00	-4,993.48	-1,020.91	3,010.00	2,782.67	227.33	13.241	
14,678.08	5,686.00	13,599.74	5,686.00	122.07	113.78	90.00	-5,069.42	-1,033.62	3,022.90	2,793.05	229.85	13.151 SF	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-2 - 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)			
0.00	0.00	0.00	0.00	0.00	0.00	-91.05	-1.10	-59.86	59.87				
100.00	100.00	100.00	100.00	0.14	0.14	-91.05	-1.10	-59.86	59.87	59.58	0.29	208.762	
200.00	200.00	200.00	200.00	0.50	0.50	-91.05	-1.10	-59.86	59.87	58.86	1.00	59.646	
300.00	300.00	300.00	300.00	0.86	0.86	-91.05	-1.10	-59.86	59.87	58.15	1.72	34.794	
400.00	400.00	400.00	400.00	1.22	1.22	-91.05	-1.10	-59.86	59.87	57.43	2.44	24.560	
459.47	459.47	459.48	459.47	1.43	1.43	-90.17	-0.17	-59.86	59.86	57.00	2.86	20.904 CC	
500.00	500.00	500.00	499.95	1.58	1.58	-88.55	1.52	-59.87	59.88	56.73	3.15	18.988 ES	
600.00	600.00	599.37	599.01	1.94	1.95	-81.18	9.30	-59.89	60.61	56.74	3.87	15.653	
700.00	700.00	697.71	696.51	2.29	2.31	-69.79	22.06	-59.93	63.95	59.35	4.60	13.905	
800.00	800.00	794.49	791.69	2.65	2.70	-56.63	39.50	-59.98	72.29	66.97	5.33	13.575	
900.00	900.00	889.25	883.92	3.01	3.13	-44.44	61.22	-60.04	87.24	81.22	6.03	14.471	
1,000.00	1,000.00	981.62	972.67	3.37	3.58	-34.71	86.78	-60.11	109.05	102.35	6.70	16.286	
1,100.00	1,100.00	1,071.26	1,057.53	3.73	4.08	-27.50	115.65	-60.20	137.13	129.79	7.33	18.701	
1,200.00	1,200.00	1,157.92	1,138.19	4.09	4.60	-22.26	147.33	-60.29	170.77	162.85	7.92	21.565	
1,300.00	1,300.00	1,241.41	1,214.46	4.45	5.16	-18.43	181.27	-60.39	209.34	200.84	8.50	24.634	
1,400.00	1,399.95	1,322.47	1,287.02	4.80	5.74	-47.57	217.38	-60.50	250.77	241.72	9.05	27.714	
1,500.00	1,499.63	1,400.00	1,354.93	5.16	6.34	-45.40	254.77	-60.60	292.95	283.39	9.56	30.645	
1,600.00	1,598.77	1,484.12	1,426.94	5.52	7.04	-43.98	298.24	-60.73	335.31	325.12	10.19	32.896	
1,700.00	1,697.08	1,575.84	1,505.01	5.90	7.84	-43.30	346.38	-60.87	375.09	364.13	10.96	34.208	
1,800.00	1,794.31	1,668.90	1,584.22	6.30	8.66	-43.21	395.23	-61.01	411.38	399.60	11.79	34.900	
1,900.00	1,890.18	1,763.04	1,664.35	6.73	9.51	-43.58	444.64	-61.16	444.19	431.52	12.67	35.063	
2,000.00	1,984.43	1,857.99	1,745.18	7.20	10.37	-44.34	494.48	-61.30	473.59	459.98	13.62	34.776	
2,100.00	2,076.81	1,953.51	1,826.48	7.73	11.24	-45.44	544.61	-61.45	499.72	485.07	14.65	34.107	
2,200.00	2,167.06	2,049.33	1,908.03	8.33	12.12	-46.85	594.91	-61.60	522.77	506.99	15.79	33.117	
2,300.00	2,254.93	2,145.18	1,989.62	8.99	13.00	-48.54	645.22	-61.74	542.98	525.94	17.04	31.867	
2,400.00	2,340.18	2,240.81	2,071.01	9.74	13.88	-50.52	695.41	-61.89	560.65	542.22	18.43	30.417	
2,500.00	2,422.59	2,335.94	2,151.99	10.56	14.76	-52.76	745.35	-62.04	576.16	556.17	19.99	28.829	
2,600.00	2,501.91	2,430.33	2,232.33	11.47	15.64	-55.26	794.89	-62.18	589.92	568.20	21.72	27.165	
2,700.00	2,577.95	2,523.71	2,311.81	12.47	16.51	-58.00	843.90	-62.32	602.44	578.80	23.64	25.486	
2,799.34	2,650.00	2,615.21	2,389.70	13.55	17.37	-60.93	891.93	-62.46	614.19	588.45	25.74	23.860	
2,800.00	2,650.47	2,615.82	2,390.22	13.55	17.37	-60.95	892.25	-62.46	614.27	588.52	25.76	23.849	
2,900.00	2,721.21	2,707.23	2,468.02	14.70	18.23	-64.25	940.23	-62.60	627.19	599.17	28.02	22.386	
3,000.00	2,791.95	2,798.63	2,545.82	15.87	19.08	-67.43	988.21	-62.74	642.41	612.06	30.34	21.170	
3,100.00	2,862.68	2,890.04	2,623.62	17.07	19.94	-70.47	1,036.19	-62.88	659.77	627.06	32.71	20.169	
3,200.00	2,933.42	2,981.45	2,701.43	18.29	20.80	-73.37	1,084.16	-63.02	679.12	644.02	35.10	19.350	
3,300.00	3,004.15	3,072.86	2,779.23	19.53	21.65	-76.12	1,132.14	-63.16	700.28	662.80	37.48	18.684	
3,400.00	3,074.89	3,164.26	2,857.03	20.77	22.51	-78.72	1,180.12	-63.30	723.10	683.25	39.85	18.144	
3,500.00	3,145.62	3,255.67	2,934.84	22.03	23.37	-81.18	1,228.10	-63.44	747.42	705.22	42.20	17.710	
3,600.00	3,216.36	3,347.08	3,012.64	23.30	24.23	-83.49	1,276.08	-63.58	773.11	728.58	44.53	17.363	
3,700.00	3,287.09	3,438.48	3,090.44	24.57	25.09	-85.67	1,324.06	-63.72	800.03	753.21	46.82	17.088	
3,800.00	3,357.83	3,529.89	3,168.25	25.85	25.95	-87.72	1,372.03	-63.86	828.06	778.98	49.08	16.872	
3,900.00	3,428.56	3,621.30	3,246.05	27.14	26.82	-89.64	1,420.01	-64.00	857.10	805.79	51.31	16.706	
4,000.00	3,499.30	3,712.71	3,323.85	28.43	27.68	-91.44	1,467.99	-64.14	887.04	833.53	53.50	16.580	
4,100.00	3,570.03	3,804.11	3,401.66	29.73	28.54	-93.14	1,515.97	-64.28	917.79	862.12	55.67	16.487	
4,200.00	3,640.77	3,895.52	3,479.46	31.03	29.40	-94.73	1,563.95	-64.42	949.28	891.48	57.80	16.423	
4,300.00	3,711.50	3,986.93	3,557.26	32.33	30.26	-96.23	1,611.93	-64.56	981.44	921.53	59.91	16.382	
4,400.00	3,782.24	4,078.33	3,635.07	33.64	31.13	-97.63	1,659.90	-64.70	1,014.20	952.21	61.99	16.360	
4,500.00	3,852.97	4,169.74	3,712.87	34.95	31.99	-98.95	1,707.88	-64.84	1,047.50	983.45	64.05	16.354	
4,600.00	3,923.71	4,261.15	3,790.67	36.26	32.85	-100.20	1,755.86	-64.98	1,081.30	1,015.21	66.09	16.361	
4,700.00	3,994.44	4,352.56	3,868.47	37.57	33.72	-101.37	1,803.84	-65.12	1,115.55	1,047.45	68.11	16.379	
4,800.00	4,065.18	4,443.96	3,946.28	38.88	34.58	-102.48	1,851.82	-65.26	1,150.21	1,080.11	70.11	16.407	
4,900.00	4,135.92	4,535.37	4,024.08	40.20	35.44	-103.52	1,899.80	-65.40	1,185.25	1,113.16	72.09	16.441	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-2 - 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			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
5,000.00	4,206.65	4,626.78	4,101.88	41.52	36.31	-104.51	1,947.77	-65.54	1,220.63	1,146.57	74.06	16.482	
5,100.00	4,277.39	4,718.18	4,179.69	42.84	37.17	-105.44	1,995.75	-65.68	1,256.32	1,180.30	76.01	16.528	
5,200.00	4,348.12	4,809.59	4,257.49	44.16	38.04	-106.33	2,043.73	-65.82	1,292.29	1,214.34	77.95	16.578	
5,300.00	4,418.86	4,901.00	4,335.29	45.48	38.90	-107.17	2,091.71	-65.96	1,328.53	1,248.65	79.88	16.631	
5,400.00	4,489.59	4,992.41	4,413.10	46.80	39.76	-107.96	2,139.69	-66.10	1,365.02	1,283.22	81.80	16.687	
5,500.00	4,560.33	5,083.81	4,490.90	48.12	40.63	-108.71	2,187.67	-66.24	1,401.72	1,318.02	83.71	16.745	
5,600.00	4,631.06	5,175.22	4,568.70	49.45	41.49	-109.43	2,235.64	-66.38	1,438.64	1,353.03	85.61	16.805	
5,700.00	4,701.80	5,266.63	4,646.51	50.77	42.36	-110.11	2,283.62	-66.52	1,475.74	1,388.24	87.50	16.866	
5,800.00	4,772.53	5,358.03	4,724.31	52.10	43.22	-110.76	2,331.60	-66.66	1,513.03	1,423.64	89.38	16.927	
5,900.00	4,843.27	5,460.80	4,815.24	53.42	44.09	-111.74	2,379.20	-66.81	1,550.17	1,458.87	91.30	16.979	
5,954.41	4,881.76	5,513.60	4,864.87	54.14	44.44	-112.49	2,397.18	-66.88	1,570.29	1,478.18	92.10	17.049	
6,000.00	4,914.92	5,555.53	4,905.33	54.73	44.67	-118.28	2,408.16	-66.94	1,587.75	1,495.11	92.64	17.138	
6,050.00	4,953.22	5,599.91	4,948.89	55.35	44.86	-125.50	2,416.52	-66.99	1,608.16	1,515.05	93.11	17.272	
6,100.00	4,993.27	5,642.85	4,991.55	55.92	44.99	-133.75	2,421.38	-67.03	1,629.70	1,536.25	93.44	17.441	
6,150.00	5,034.75	5,684.61	5,033.27	56.45	45.07	-143.10	2,423.03	-67.08	1,652.16	1,558.49	93.66	17.639	
6,200.00	5,077.34	5,725.42	5,074.05	56.91	45.11	-153.57	2,421.71	-67.11	1,675.34	1,581.55	93.78	17.864	
6,250.00	5,120.74	5,765.47	5,113.88	57.32	45.12	-165.04	2,417.59	-67.14	1,699.03	1,605.21	93.82	18.110	
6,300.00	5,164.59	5,804.95	5,152.77	57.67	45.11	-177.17	2,410.81	-67.17	1,723.01	1,629.25	93.77	18.376	
6,350.00	5,208.58	5,844.03	5,190.70	57.94	45.07	-170.53	2,401.49	-67.19	1,747.09	1,653.46	93.64	18.658	
6,400.00	5,252.36	5,882.84	5,227.67	58.15	45.00	-158.64	2,389.68	-67.21	1,771.06	1,677.63	93.43	18.956	
6,450.00	5,295.61	5,921.53	5,263.64	58.30	44.90	-147.62	2,375.46	-67.22	1,794.71	1,701.55	93.17	19.263	
6,500.00	5,337.99	5,960.20	5,298.56	58.38	44.79	-137.74	2,358.84	-67.23	1,817.87	1,725.02	92.85	19.579	
6,550.00	5,379.18	6,000.00	5,333.23	58.40	44.65	-129.07	2,339.33	-67.23	1,840.33	1,747.86	92.47	19.903	
6,600.00	5,418.87	6,037.94	5,364.95	58.36	44.49	-121.59	2,318.52	-67.23	1,861.93	1,769.88	92.05	20.227	
6,650.00	5,456.75	6,077.18	5,396.23	58.27	44.31	-115.17	2,294.85	-67.22	1,882.51	1,790.92	91.59	20.554	
6,700.00	5,492.54	6,116.75	5,426.07	58.14	44.11	-109.69	2,268.86	-67.21	1,901.91	1,810.82	91.09	20.880	
6,750.00	5,525.96	6,156.72	5,454.31	57.96	43.89	-105.02	2,240.59	-67.20	1,919.99	1,829.43	90.55	21.203	
6,800.00	5,556.77	6,200.00	5,482.58	57.74	43.64	-101.08	2,207.84	-67.18	1,936.61	1,846.67	89.95	21.531	
6,850.00	5,584.72	6,238.00	5,505.31	57.49	43.40	-97.76	2,177.39	-67.16	1,951.66	1,862.26	89.40	21.831	
6,900.00	5,609.61	6,279.35	5,527.69	57.20	43.13	-95.00	2,142.62	-67.13	1,965.03	1,876.23	88.79	22.131	
6,950.00	5,631.24	6,321.19	5,547.72	56.90	42.85	-92.74	2,105.90	-67.09	1,976.62	1,888.45	88.17	22.418	
7,000.00	5,649.44	6,363.50	5,565.19	56.57	42.56	-90.94	2,067.39	-67.05	1,986.35	1,898.81	87.54	22.691	
7,050.00	5,664.09	6,406.24	5,579.91	56.22	42.26	-89.57	2,027.27	-67.01	1,994.15	1,907.24	86.91	22.946	
7,100.00	5,675.07	6,450.00	5,591.84	55.87	41.95	-88.59	1,985.18	-66.96	1,999.96	1,913.70	86.26	23.185	
7,150.00	5,682.29	6,492.89	5,600.39	55.50	41.65	-87.98	1,943.16	-66.91	2,003.75	1,918.10	85.65	23.395	
7,200.00	5,685.71	6,536.68	5,605.85	55.14	41.34	-87.74	1,899.72	-66.85	2,005.48	1,920.44	85.03	23.584	
7,219.51	5,686.00	6,553.83	5,607.08	54.99	41.22	-87.74	1,882.61	-66.83	2,005.59	1,920.79	84.80	23.651	
7,256.41	5,686.00	6,586.38	5,608.00	54.73	41.00	-87.77	1,850.08	-66.78	2,005.55	1,921.19	84.36	23.773	
7,300.00	5,686.00	6,629.95	5,608.00	54.42	40.72	-87.77	1,806.51	-66.72	2,005.55	1,921.80	83.75	23.947	
7,400.00	5,686.00	6,729.95	5,608.00	53.72	40.10	-87.77	1,706.51	-66.58	2,005.55	1,923.12	82.44	24.328	
7,500.00	5,686.00	6,829.95	5,608.00	53.06	39.56	-87.77	1,606.51	-66.43	2,005.55	1,924.29	81.26	24.680	
7,600.00	5,686.00	6,929.95	5,608.00	52.42	39.08	-87.77	1,506.51	-66.29	2,005.55	1,925.33	80.23	24.999	
7,700.00	5,686.00	7,029.95	5,608.00	51.82	38.69	-87.77	1,406.51	-66.15	2,005.55	1,926.22	79.34	25.279	
7,800.00	5,686.00	7,129.95	5,608.00	51.23	38.37	-87.77	1,306.51	-66.00	2,005.56	1,926.96	78.60	25.517	
7,900.00	5,686.00	7,229.95	5,608.00	50.68	38.13	-87.77	1,206.51	-65.86	2,005.56	1,927.54	78.01	25.708	
8,000.00	5,686.00	7,329.95	5,608.00	50.15	37.98	-87.77	1,106.51	-65.72	2,005.56	1,927.96	77.59	25.848	
8,100.00	5,686.00	7,429.95	5,608.00	49.64	37.91	-87.77	1,006.51	-65.57	2,005.56	1,928.23	77.33	25.935	
8,200.00	5,686.00	7,529.95	5,608.00	49.17	37.92	-87.77	906.51	-65.43	2,005.56	1,928.33	77.23	25.968	
8,300.00	5,686.00	7,629.95	5,608.00	48.71	38.02	-87.77	806.51	-65.29	2,005.56	1,928.26	77.30	25.946	
8,400.00	5,686.00	7,729.95	5,608.00	48.28	38.20	-87.77	706.51	-65.14	2,005.56	1,928.03	77.53	25.870	
8,500.00	5,686.00	7,829.95	5,608.00	47.88	38.46	-87.77	606.51	-65.00	2,005.56	1,927.64	77.92	25.740	
8,600.00	5,686.00	7,929.95	5,608.00	47.51	38.80	-87.77	506.51	-64.86	2,005.56	1,927.09	78.47	25.559	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-2 - 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		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)		
8,700.00	5,686.00	8,029.95	5,608.00	47.16	39.22	87.77	406.51	-64.71	2,005.56	1,926.38	79.17	25.331
8,800.00	5,686.00	8,129.95	5,608.00	46.84	39.71	87.77	306.51	-64.57	2,005.56	1,925.52	80.03	25.059
8,900.00	5,686.00	8,229.95	5,608.00	46.56	40.28	87.77	206.51	-64.43	2,005.56	1,924.52	81.04	24.748
9,000.00	5,686.00	8,329.95	5,608.00	46.31	40.92	87.77	106.51	-64.28	2,005.56	1,923.37	82.19	24.402
9,100.00	5,686.00	8,429.95	5,608.00	46.12	41.62	87.77	6.51	-64.14	2,005.56	1,922.09	83.47	24.026
9,200.00	5,686.00	8,529.95	5,608.00	45.98	42.39	87.77	-93.49	-64.00	2,005.56	1,920.67	84.89	23.626
9,300.00	5,686.00	8,629.95	5,608.00	45.93	43.22	87.77	-193.49	-63.86	2,005.56	1,919.13	86.42	23.206
9,400.00	5,686.00	8,729.95	5,608.00	46.00	44.10	87.77	-293.49	-63.71	2,005.56	1,917.48	88.08	22.770
9,500.00	5,686.00	8,829.95	5,608.00	46.23	45.04	87.77	-393.49	-63.57	2,005.56	1,915.72	89.85	22.322
9,600.00	5,686.00	8,929.95	5,608.00	46.66	46.02	87.77	-493.49	-63.43	2,005.56	1,913.85	91.72	21.867
9,700.00	5,686.00	9,029.95	5,608.00	47.29	47.06	87.77	-593.49	-63.28	2,005.56	1,911.88	93.68	21.408
9,800.00	5,686.00	9,129.95	5,608.00	48.12	48.13	87.77	-693.49	-63.14	2,005.56	1,909.82	95.74	20.947
9,900.00	5,686.00	9,229.95	5,608.00	49.08	49.25	87.77	-793.49	-63.00	2,005.56	1,907.67	97.89	20.488
10,000.00	5,686.00	9,329.95	5,608.00	50.16	50.41	87.77	-893.49	-62.85	2,005.56	1,905.45	100.12	20.032
10,100.00	5,686.00	9,429.95	5,608.00	51.32	51.60	87.77	-993.49	-62.71	2,005.56	1,903.14	102.42	19.582
10,200.00	5,686.00	9,529.95	5,608.00	52.53	52.83	87.77	-1,093.49	-62.57	2,005.56	1,900.77	104.79	19.139
10,300.00	5,686.00	9,629.95	5,608.00	53.79	54.08	87.77	-1,193.49	-62.42	2,005.56	1,898.33	107.23	18.704
10,400.00	5,686.00	9,729.95	5,608.00	55.09	55.37	87.77	-1,293.49	-62.28	2,005.56	1,895.83	109.73	18.277
10,500.00	5,686.00	9,829.95	5,608.00	56.42	56.68	87.77	-1,393.49	-62.14	2,005.56	1,893.28	112.29	17.861
10,600.00	5,686.00	9,929.95	5,608.00	57.77	58.02	87.77	-1,493.49	-61.99	2,005.56	1,890.67	114.90	17.455
10,700.00	5,686.00	10,029.95	5,608.00	59.15	59.38	87.77	-1,593.49	-61.85	2,005.56	1,888.01	117.56	17.060
10,800.00	5,686.00	10,129.95	5,608.00	60.55	60.76	87.77	-1,693.49	-61.71	2,005.56	1,885.30	120.26	16.676
10,900.00	5,686.00	10,229.95	5,608.00	61.97	62.16	87.77	-1,793.49	-61.56	2,005.56	1,882.55	123.02	16.303
11,000.00	5,686.00	10,329.95	5,608.00	63.40	63.58	87.77	-1,893.49	-61.42	2,005.57	1,879.76	125.81	15.942
11,100.00	5,686.00	10,429.95	5,608.00	64.85	65.02	87.77	-1,993.49	-61.28	2,005.57	1,876.93	128.64	15.591
11,200.00	5,686.00	10,529.95	5,608.00	66.32	66.48	87.77	-2,093.49	-61.14	2,005.57	1,874.06	131.50	15.251
11,300.00	5,686.00	10,629.95	5,608.00	67.80	67.95	87.77	-2,193.49	-60.99	2,005.57	1,871.17	134.40	14.922
11,400.00	5,686.00	10,729.95	5,608.00	69.29	69.44	87.77	-2,293.49	-60.85	2,005.57	1,868.24	137.33	14.604
11,500.00	5,686.00	10,829.95	5,608.00	70.79	70.94	87.77	-2,393.49	-60.71	2,005.57	1,865.28	140.29	14.296
11,600.00	5,686.00	10,929.95	5,608.00	72.30	72.45	87.77	-2,493.49	-60.56	2,005.57	1,862.29	143.27	13.998
11,700.00	5,686.00	11,029.95	5,608.00	73.83	73.97	87.77	-2,593.49	-60.42	2,005.57	1,859.28	146.29	13.710
11,800.00	5,686.00	11,129.95	5,608.00	75.36	75.51	87.77	-2,693.49	-60.28	2,005.57	1,856.25	149.32	13.431
11,900.00	5,686.00	11,229.95	5,608.00	76.90	77.06	87.77	-2,793.49	-60.13	2,005.57	1,853.19	152.38	13.161
12,000.00	5,686.00	11,329.95	5,608.00	78.45	78.61	87.77	-2,893.49	-59.99	2,005.57	1,850.11	155.46	12.901
12,100.00	5,686.00	11,429.95	5,608.00	80.01	80.18	87.77	-2,993.48	-59.85	2,005.57	1,847.01	158.56	12.648
12,200.00	5,686.00	11,529.95	5,608.00	81.58	81.75	87.77	-3,093.48	-59.70	2,005.57	1,843.89	161.68	12.404
12,300.00	5,686.00	11,629.95	5,608.00	83.15	83.33	87.77	-3,193.48	-59.56	2,005.57	1,840.75	164.82	12.168
12,400.00	5,686.00	11,729.95	5,608.00	84.73	84.93	87.77	-3,293.48	-59.42	2,005.57	1,837.60	167.97	11.940
12,500.00	5,686.00	11,829.95	5,608.00	86.32	86.52	87.77	-3,393.48	-59.27	2,005.57	1,834.43	171.14	11.719
12,600.00	5,686.00	11,929.95	5,608.00	87.91	88.13	87.77	-3,493.48	-59.13	2,005.57	1,831.24	174.33	11.504
12,700.00	5,686.00	12,029.95	5,608.00	89.51	89.74	87.77	-3,593.48	-58.99	2,005.57	1,828.04	177.53	11.297
12,800.00	5,686.00	12,129.95	5,608.00	91.12	91.36	87.77	-3,693.48	-58.84	2,005.57	1,824.83	180.74	11.096
12,900.00	5,686.00	12,229.95	5,608.00	92.73	92.98	87.77	-3,793.48	-58.70	2,005.57	1,821.60	183.97	10.902
13,000.00	5,686.00	12,329.95	5,608.00	94.35	94.61	87.77	-3,893.48	-58.56	2,005.57	1,818.36	187.21	10.713
13,100.00	5,686.00	12,429.95	5,608.00	95.97	96.25	87.77	-3,993.48	-58.41	2,005.57	1,815.11	190.46	10.530
13,200.00	5,686.00	12,529.95	5,608.00	97.59	97.89	87.77	-4,093.48	-58.27	2,005.57	1,811.85	193.72	10.353
13,300.00	5,686.00	12,629.95	5,608.00	99.22	99.53	87.77	-4,193.48	-58.13	2,005.57	1,808.58	196.99	10.181
13,400.00	5,686.00	12,729.95	5,608.00	100.86	101.18	87.77	-4,293.48	-57.99	2,005.57	1,805.30	200.27	10.014
13,500.00	5,686.00	12,829.95	5,608.00	102.50	102.84	87.77	-4,393.48	-57.84	2,005.57	1,802.01	203.56	9.852
13,600.00	5,686.00	12,929.95	5,608.00	104.14	104.50	87.77	-4,493.48	-57.70	2,005.57	1,798.71	206.86	9.695
13,700.00	5,686.00	13,029.95	5,608.00	105.79	106.16	87.77	-4,593.48	-57.56	2,005.57	1,795.40	210.17	9.543
13,800.00	5,686.00	13,129.95	5,608.00	107.44	107.83	87.77	-4,693.48	-57.41	2,005.57	1,792.09	213.49	9.394

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-2 - 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	
13,900.00	5,686.00	13,229.95	5,608.00	109.09	109.50	87.77	-4,793.48	-57.27	2,005.57	1,788.77	216.81	9.250	
14,000.00	5,686.00	13,329.95	5,608.00	110.75	111.17	87.77	-4,893.48	-57.13	2,005.57	1,785.43	220.14	9.110	
14,100.00	5,686.00	13,429.95	5,608.00	112.41	112.85	87.77	-4,993.48	-56.98	2,005.58	1,782.10	223.48	8.974	
14,200.00	5,686.00	13,529.95	5,608.00	114.08	114.53	87.77	-5,093.48	-56.84	2,005.58	1,778.75	226.82	8.842	
14,300.00	5,686.00	13,629.95	5,608.00	115.74	116.21	87.77	-5,193.48	-56.70	2,005.58	1,775.40	230.18	8.713	
14,400.00	5,686.00	13,729.95	5,608.00	117.41	117.89	87.77	-5,293.48	-56.55	2,005.58	1,772.04	233.53	8.588	
14,500.00	5,686.00	13,829.95	5,608.00	119.09	119.58	87.77	-5,393.48	-56.41	2,005.58	1,768.68	236.90	8.466	
14,578.25	5,686.00	13,908.20	5,608.00	120.40	120.91	87.77	-5,471.73	-56.30	2,005.58	1,766.04	239.53	8.373	
14,580.87	5,686.00	13,910.83	5,608.00	120.44	120.95	87.77	-5,474.36	-56.29	2,005.57	1,765.95	239.62	8.370	
14,600.00	5,686.00	13,931.31	5,608.00	120.76	121.30	87.77	-5,494.84	-56.26	2,005.55	1,765.25	240.30	8.346	
14,678.08	5,686.00	14,010.76	5,608.00	122.07	122.64	87.77	-5,574.29	-56.04	2,005.33	1,762.37	242.97	8.253 SF	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-3 - 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)			
0.00	0.00	0.00	0.00	0.00	0.00	-91.06	-0.74	-39.91	39.91				
100.00	100.00	100.00	100.00	0.14	0.14	-91.06	-0.74	-39.91	39.91	39.63	0.29	139.175	
200.00	200.00	200.00	200.00	0.50	0.50	-91.06	-0.74	-39.91	39.91	38.91	1.00	39.764	
300.00	300.00	300.00	300.00	0.86	0.86	-91.06	-0.74	-39.91	39.91	38.19	1.72	23.196	
400.00	400.00	400.00	400.00	1.22	1.22	-91.06	-0.74	-39.91	39.91	37.47	2.44	16.373	
500.00	500.00	500.00	500.00	1.58	1.58	-91.06	-0.74	-39.91	39.91	36.76	3.15	12.652	
600.00	600.00	600.00	600.00	1.94	1.94	-91.06	-0.74	-39.91	39.91	36.04	3.87	10.309	
700.00	700.00	700.00	700.00	2.29	2.29	-91.06	-0.74	-39.91	39.91	35.32	4.59	8.698	
800.00	800.00	800.00	800.00	2.65	2.65	-91.06	-0.74	-39.91	39.91	34.61	5.31	7.523	
900.00	900.00	900.00	900.00	3.01	3.01	-91.06	-0.74	-39.91	39.91	33.89	6.02	6.627	
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	-91.06	-0.74	-39.91	39.91	33.17	6.74	5.922	
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	-91.06	-0.74	-39.91	39.91	32.46	7.46	5.353	
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	-91.06	-0.74	-39.91	39.91	31.74	8.17	4.883	
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	-91.06	-0.74	-39.91	39.91	31.02	8.89	4.490 CC, ES	
1,400.00	1,399.95	1,399.95	1,399.95	4.80	4.80	-126.63	-0.74	-39.91	41.42	31.82	9.60	4.312 SF	
1,500.00	1,499.63	1,499.63	1,499.63	5.16	5.16	-134.28	-0.74	-39.91	46.53	36.21	10.32	4.510	
1,600.00	1,598.77	1,600.28	1,600.24	5.52	5.52	-141.45	1.84	-39.38	55.08	44.05	11.03	4.993	
1,700.00	1,697.08	1,701.37	1,700.99	5.90	5.89	-145.35	9.66	-37.80	65.57	53.83	11.74	5.585	
1,800.00	1,794.31	1,802.83	1,801.57	6.30	6.25	-147.02	22.74	-35.14	77.53	65.08	12.45	6.228	
1,900.00	1,890.18	1,904.63	1,901.61	6.73	6.63	-147.25	41.11	-31.42	90.75	77.58	13.17	6.893	
2,000.00	1,984.43	2,006.70	2,000.78	7.20	7.03	-146.55	64.75	-26.63	105.16	91.26	13.91	7.561	
2,100.00	2,076.81	2,108.99	2,098.73	7.73	7.46	-145.25	93.62	-20.77	120.79	106.09	14.70	8.216	
2,200.00	2,167.06	2,211.46	2,195.12	8.33	7.93	-143.58	127.64	-13.88	137.65	122.08	15.56	8.844	
2,300.00	2,254.93	2,314.06	2,289.63	8.99	8.46	-141.70	166.74	-5.95	155.78	139.26	16.52	9.429	
2,400.00	2,340.18	2,416.74	2,381.94	9.74	9.04	-139.68	210.79	2.98	175.21	157.61	17.60	9.956	
2,500.00	2,422.59	2,519.47	2,471.74	10.56	9.70	-137.62	259.66	12.89	195.96	177.14	18.81	10.416	
2,600.00	2,501.91	2,622.21	2,558.74	11.47	10.42	-135.54	313.20	23.74	218.04	197.85	20.18	10.802	
2,700.00	2,577.95	2,724.93	2,642.66	12.47	11.22	-133.47	371.23	35.51	241.44	219.71	21.72	11.114	
2,799.34	2,650.00	2,826.93	2,722.72	13.55	12.09	-131.45	433.15	48.07	265.97	242.55	23.43	11.354	
2,800.00	2,650.47	2,827.61	2,723.24	13.55	12.10	-131.44	433.58	48.15	266.14	242.70	23.44	11.355	
2,900.00	2,721.21	2,930.47	2,800.43	14.70	13.05	-129.62	500.20	61.66	290.48	265.12	25.36	11.456	
3,000.00	2,791.95	3,027.68	2,871.34	15.87	14.01	-127.66	565.36	74.87	313.89	286.48	27.41	11.452	
3,100.00	2,862.68	3,124.38	2,941.87	17.07	14.99	-125.97	630.20	88.02	337.60	308.08	29.51	11.438	
3,200.00	2,933.42	3,221.08	3,012.40	18.29	16.00	-124.50	695.03	101.16	361.55	329.88	31.67	11.417	
3,300.00	3,004.15	3,317.77	3,082.92	19.53	17.03	-123.22	759.86	114.31	385.70	351.84	33.86	11.391	
3,400.00	3,074.89	3,414.47	3,153.45	20.77	18.08	-122.08	824.70	127.45	410.01	373.93	36.08	11.363	
3,500.00	3,145.62	3,511.17	3,223.98	22.03	19.14	-121.07	889.53	140.60	434.46	396.13	38.33	11.334	
3,600.00	3,216.36	3,607.86	3,294.51	23.30	20.21	-120.17	954.36	153.74	459.02	418.42	40.60	11.306	
3,700.00	3,287.09	3,704.56	3,365.03	24.57	21.29	-119.36	1,019.20	166.89	483.68	440.79	42.89	11.277	
3,800.00	3,357.83	3,801.26	3,435.56	25.85	22.38	-118.63	1,084.03	180.03	508.41	463.22	45.19	11.250	
3,900.00	3,428.56	3,897.95	3,506.09	27.14	23.47	-117.97	1,148.86	193.18	533.22	485.71	47.51	11.224	
4,000.00	3,499.30	3,994.65	3,576.61	28.43	24.58	-117.36	1,213.70	206.32	558.09	508.26	49.84	11.199	
4,100.00	3,570.03	4,091.35	3,647.14	29.73	25.68	-116.81	1,278.53	219.47	583.02	530.85	52.17	11.175	
4,200.00	3,640.77	4,188.04	3,717.67	31.03	26.80	-116.30	1,343.36	232.61	607.99	553.47	54.52	11.152	
4,300.00	3,711.50	4,284.74	3,788.20	32.33	27.91	-115.83	1,408.20	245.76	633.00	576.13	56.87	11.131	
4,400.00	3,782.24	4,381.44	3,858.72	33.64	29.03	-115.40	1,473.03	258.90	658.05	598.82	59.23	11.110	
4,500.00	3,852.97	4,478.13	3,929.25	34.95	30.16	-115.00	1,537.86	272.05	683.13	621.54	61.59	11.091	
4,600.00	3,923.71	4,574.83	3,999.78	36.26	31.28	-114.63	1,602.70	285.19	708.24	644.28	63.96	11.073	
4,700.00	3,994.44	4,671.53	4,070.30	37.57	32.41	-114.28	1,667.53	298.34	733.38	667.05	66.33	11.056	
4,800.00	4,065.18	4,768.22	4,140.83	38.88	33.55	-113.96	1,732.36	311.48	758.54	689.83	68.71	11.040	
4,900.00	4,135.92	4,864.92	4,211.36	40.20	34.68	-113.65	1,797.20	324.63	783.72	712.63	71.09	11.024	
5,000.00	4,206.65	4,961.62	4,281.89	41.52	35.81	-113.37	1,862.03	337.77	808.93	735.45	73.48	11.009	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-3 - 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		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
5,100.00	4,277.39	5,058.31	4,352.41	42.84	36.95	-113.10	1,926.86	350.92	834.15	758.28	75.86	10.996
5,200.00	4,348.12	5,155.01	4,422.94	44.16	38.09	-112.85	1,991.70	364.06	859.38	781.13	78.25	10.982
5,300.00	4,418.86	5,251.71	4,493.47	45.48	39.23	-112.61	2,056.53	377.21	884.63	803.99	80.64	10.970
5,400.00	4,489.59	5,348.40	4,563.99	46.80	40.37	-112.39	2,121.37	390.35	909.89	826.86	83.04	10.958
5,500.00	4,560.33	5,445.10	4,634.52	48.12	41.52	-112.18	2,186.20	403.50	935.17	849.74	85.43	10.946
5,600.00	4,631.06	5,541.80	4,705.05	49.45	42.66	-111.98	2,251.03	416.64	960.45	872.63	87.83	10.936
5,700.00	4,701.80	5,654.37	4,788.97	50.77	43.97	-111.93	2,324.33	432.29	985.42	894.91	90.51	10.888
5,800.00	4,772.53	5,785.17	4,900.25	52.10	45.18	-113.27	2,389.28	453.08	1,007.52	914.78	92.75	10.863
5,900.00	4,843.27	5,902.30	5,009.89	53.42	45.94	-115.79	2,424.33	473.61	1,027.52	933.68	93.84	10.949
5,954.41	4,881.76	5,957.93	5,063.99	54.14	46.16	-117.37	2,432.84	483.74	1,038.34	944.31	94.03	11.042
6,000.00	4,914.92	6,000.99	5,106.12	54.73	46.29	-123.00	2,435.75	491.66	1,048.15	954.11	94.04	11.145
6,050.00	4,953.22	6,046.11	5,150.45	55.35	46.37	-129.96	2,435.33	499.98	1,060.21	966.26	93.95	11.285
6,100.00	4,993.27	6,089.37	5,192.80	55.92	46.40	-137.88	2,431.59	507.93	1,073.49	979.73	93.76	11.449
6,150.00	5,034.75	6,131.07	5,233.25	56.45	46.39	-146.83	2,424.93	515.53	1,087.82	994.31	93.51	11.633
6,200.00	5,077.34	6,171.48	5,271.88	56.91	46.36	-156.86	2,415.63	522.80	1,103.02	1,009.82	93.20	11.835
6,250.00	5,120.74	6,210.80	5,308.77	57.32	46.30	-167.84	2,403.94	529.74	1,118.90	1,026.06	92.84	12.052
6,300.00	5,164.59	6,250.00	5,344.68	57.67	46.21	-179.49	2,389.75	536.50	1,135.26	1,042.83	92.43	12.283
6,350.00	5,208.58	6,286.90	5,377.53	57.94	46.10	-168.74	2,374.15	542.68	1,151.92	1,059.91	92.01	12.520
6,400.00	5,252.36	6,323.95	5,409.46	58.15	45.98	-157.35	2,356.34	548.70	1,168.68	1,077.14	91.55	12.766
6,450.00	5,295.61	6,360.50	5,439.77	58.30	45.84	-146.81	2,336.76	554.42	1,185.38	1,094.31	91.08	13.015
6,500.00	5,337.99	6,400.00	5,471.09	58.38	45.66	-137.34	2,313.43	560.33	1,201.84	1,111.34	90.51	13.279
6,550.00	5,379.18	6,432.42	5,495.56	58.40	45.50	-129.15	2,292.68	564.95	1,217.89	1,127.79	90.10	13.516
6,600.00	5,418.87	6,467.95	5,521.00	58.36	45.31	-122.05	2,268.37	569.76	1,233.39	1,143.77	89.62	13.762
6,650.00	5,456.75	6,500.00	5,542.65	58.27	45.13	-116.00	2,245.09	573.86	1,248.19	1,158.95	89.24	13.987
6,700.00	5,492.54	6,538.40	5,566.84	58.14	44.89	-110.78	2,215.63	578.44	1,262.16	1,173.48	88.68	14.233
6,750.00	5,525.96	6,573.42	5,587.17	57.96	44.67	-106.38	2,187.39	582.30	1,275.19	1,186.96	88.23	14.454
6,800.00	5,556.77	6,608.36	5,605.73	57.74	44.44	-102.65	2,158.00	585.82	1,287.17	1,199.37	87.79	14.661
6,850.00	5,584.72	6,650.00	5,625.50	57.49	44.16	-99.48	2,121.55	589.58	1,298.02	1,210.86	87.16	14.892
6,900.00	5,609.61	6,678.06	5,637.32	57.20	43.96	-96.90	2,096.21	591.84	1,307.59	1,220.60	86.99	15.032
6,950.00	5,631.24	6,712.87	5,650.28	56.90	43.71	-94.76	2,064.00	594.32	1,315.88	1,229.26	86.62	15.191
7,000.00	5,649.44	6,750.00	5,661.95	56.57	43.44	-93.05	2,028.84	596.56	1,322.81	1,236.61	86.20	15.346
7,050.00	5,664.09	6,782.50	5,670.32	56.22	43.20	-91.74	1,997.47	598.17	1,328.31	1,242.35	85.96	15.453
7,100.00	5,675.07	6,817.34	5,677.33	55.87	42.94	-90.80	1,963.38	599.54	1,332.36	1,246.70	85.67	15.553
7,150.00	5,682.29	6,850.00	5,682.03	55.50	42.70	-90.22	1,931.08	600.46	1,334.93	1,249.46	85.47	15.619
7,200.00	5,685.71	6,887.10	5,685.18	55.14	42.43	-89.99	1,894.13	601.11	1,335.99	1,250.84	85.15	15.690
7,219.51	5,686.00	6,900.00	5,685.72	54.99	42.34	-89.99	1,881.24	601.23	1,336.00	1,250.92	85.08	15.702
7,244.37	5,686.00	6,918.13	5,686.00	54.81	42.20	-90.00	1,863.11	601.31	1,335.93	1,250.98	84.95	15.727
7,300.00	5,686.00	6,973.76	5,686.00	54.42	41.81	-90.00	1,807.48	601.38	1,335.93	1,251.77	84.16	15.874
7,400.00	5,686.00	7,073.76	5,686.00	53.72	41.16	-90.00	1,707.48	601.53	1,335.93	1,253.09	82.84	16.127
7,500.00	5,686.00	7,173.76	5,686.00	53.06	40.56	-90.00	1,607.48	601.67	1,335.93	1,254.28	81.66	16.361
7,600.00	5,686.00	7,273.76	5,686.00	52.42	40.03	-90.00	1,507.48	601.81	1,335.94	1,255.32	80.61	16.572
7,700.00	5,686.00	7,373.76	5,686.00	51.82	39.57	-90.00	1,407.48	601.95	1,335.94	1,256.22	79.71	16.759
7,800.00	5,686.00	7,473.76	5,686.00	51.23	39.17	-90.00	1,307.48	602.10	1,335.94	1,256.97	78.97	16.917
7,900.00	5,686.00	7,573.76	5,686.00	50.68	38.86	-90.00	1,207.48	602.24	1,335.94	1,257.56	78.38	17.045
8,000.00	5,686.00	7,673.76	5,686.00	50.15	38.61	-90.00	1,107.48	602.38	1,335.94	1,258.00	77.94	17.140
8,100.00	5,686.00	7,773.76	5,686.00	49.64	38.45	-90.00	1,007.48	602.52	1,335.94	1,258.27	77.67	17.200
8,200.00	5,686.00	7,873.76	5,686.00	49.17	38.37	-90.00	907.48	602.66	1,335.94	1,258.38	77.56	17.224
8,300.00	5,686.00	7,973.76	5,686.00	48.71	38.38	-90.00	807.48	602.81	1,335.95	1,258.33	77.62	17.212
8,400.00	5,686.00	8,073.76	5,686.00	48.28	38.47	-90.00	707.48	602.95	1,335.95	1,258.11	77.84	17.164
8,500.00	5,686.00	8,173.76	5,686.00	47.88	38.64	-90.00	607.48	603.09	1,335.95	1,257.73	78.22	17.080
8,600.00	5,686.00	8,273.76	5,686.00	47.51	38.91	-90.00	507.48	603.23	1,335.95	1,257.20	78.75	16.964
8,700.00	5,686.00	8,373.76	5,686.00	47.16	39.25	-90.00	407.48	603.37	1,335.95	1,256.50	79.45	16.815

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-3 - 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)			
8,800.00	5,686.00	8,473.76	5,686.00	46.84	39.68	90.00	307.48	603.52	1,335.95	1,255.66	80.30	16.638	
8,900.00	5,686.00	8,573.76	5,686.00	46.56	40.20	90.00	207.48	603.66	1,335.95	1,254.66	81.29	16.434	
9,000.00	5,686.00	8,673.76	5,686.00	46.31	40.79	90.00	107.48	603.80	1,335.96	1,253.53	82.43	16.207	
9,100.00	5,686.00	8,773.76	5,686.00	46.12	41.45	90.00	7.48	603.94	1,335.96	1,252.25	83.70	15.961	
9,200.00	5,686.00	8,873.76	5,686.00	45.98	42.19	90.00	-92.52	604.09	1,335.96	1,250.85	85.10	15.698	
9,300.00	5,686.00	8,973.76	5,686.00	45.93	42.99	90.00	-192.52	604.23	1,335.96	1,249.33	86.63	15.421	
9,400.00	5,686.00	9,073.76	5,686.00	46.00	43.86	90.00	-292.52	604.37	1,335.96	1,247.68	88.28	15.134	
9,500.00	5,686.00	9,173.76	5,686.00	46.23	44.78	90.00	-392.52	604.51	1,335.96	1,245.93	90.03	14.839	
9,600.00	5,686.00	9,273.76	5,686.00	46.66	45.75	90.00	-492.52	604.65	1,335.96	1,244.07	91.89	14.538	
9,700.00	5,686.00	9,373.76	5,686.00	47.29	46.78	90.00	-592.52	604.80	1,335.96	1,242.11	93.85	14.235	
9,800.00	5,686.00	9,473.76	5,686.00	48.12	47.85	90.00	-692.52	604.94	1,335.97	1,240.07	95.90	13.931	
9,900.00	5,686.00	9,573.76	5,686.00	49.08	48.97	90.00	-792.52	605.08	1,335.97	1,237.93	98.04	13.627	
10,000.00	5,686.00	9,673.76	5,686.00	50.16	50.12	90.00	-892.52	605.22	1,335.97	1,235.71	100.26	13.326	
10,100.00	5,686.00	9,773.76	5,686.00	51.32	51.32	90.00	-992.52	605.36	1,335.97	1,233.42	102.55	13.027	
10,200.00	5,686.00	9,873.76	5,686.00	52.53	52.54	90.00	-1,092.52	605.51	1,335.97	1,231.06	104.92	12.734	
10,300.00	5,686.00	9,973.76	5,686.00	53.79	53.80	90.00	-1,192.52	605.65	1,335.97	1,228.63	107.35	12.445	
10,400.00	5,686.00	10,073.76	5,686.00	55.09	55.09	90.00	-1,292.52	605.79	1,335.97	1,226.13	109.84	12.163	
10,500.00	5,686.00	10,173.76	5,686.00	56.42	56.40	90.00	-1,392.52	605.93	1,335.98	1,223.58	112.39	11.887	
10,600.00	5,686.00	10,273.76	5,686.00	57.77	57.74	90.00	-1,492.52	606.08	1,335.98	1,220.98	115.00	11.618	
10,700.00	5,686.00	10,373.76	5,686.00	59.15	59.11	90.00	-1,592.52	606.22	1,335.98	1,218.33	117.65	11.355	
10,800.00	5,686.00	10,473.76	5,686.00	60.55	60.49	90.00	-1,692.52	606.36	1,335.98	1,215.63	120.35	11.101	
10,900.00	5,686.00	10,573.76	5,686.00	61.97	61.90	90.00	-1,792.52	606.50	1,335.98	1,212.88	123.10	10.853	
11,000.00	5,686.00	10,673.76	5,686.00	63.40	63.32	90.00	-1,892.52	606.64	1,335.98	1,210.10	125.88	10.613	
11,100.00	5,686.00	10,773.76	5,686.00	64.85	64.76	90.00	-1,992.52	606.79	1,335.98	1,207.27	128.71	10.380	
11,200.00	5,686.00	10,873.76	5,686.00	66.32	66.22	90.00	-2,092.52	606.93	1,335.98	1,204.41	131.57	10.154	
11,300.00	5,686.00	10,973.76	5,686.00	67.80	67.69	90.00	-2,192.52	607.07	1,335.99	1,201.52	134.47	9.936	
11,400.00	5,686.00	11,073.76	5,686.00	69.29	69.18	90.00	-2,292.52	607.21	1,335.99	1,198.60	137.39	9.724	
11,500.00	5,686.00	11,173.76	5,686.00	70.79	70.68	90.00	-2,392.52	607.35	1,335.99	1,195.64	140.35	9.519	
11,600.00	5,686.00	11,273.76	5,686.00	72.30	72.20	90.00	-2,492.52	607.50	1,335.99	1,192.66	143.33	9.321	
11,700.00	5,686.00	11,373.76	5,686.00	73.83	73.72	90.00	-2,592.52	607.64	1,335.99	1,189.65	146.34	9.129	
11,800.00	5,686.00	11,473.76	5,686.00	75.36	75.26	90.00	-2,692.51	607.78	1,335.99	1,186.62	149.37	8.944	
11,900.00	5,686.00	11,573.76	5,686.00	76.90	76.81	90.00	-2,792.51	607.92	1,335.99	1,183.57	152.43	8.765	
12,000.00	5,686.00	11,673.76	5,686.00	78.45	78.36	90.00	-2,892.51	608.06	1,336.00	1,180.49	155.51	8.591	
12,100.00	5,686.00	11,773.76	5,686.00	80.01	79.93	90.00	-2,992.51	608.21	1,336.00	1,177.39	158.61	8.423	
12,200.00	5,686.00	11,873.76	5,686.00	81.58	81.51	90.00	-3,092.51	608.35	1,336.00	1,174.28	161.72	8.261	
12,300.00	5,686.00	11,973.76	5,686.00	83.15	83.09	90.00	-3,192.51	608.49	1,336.00	1,171.14	164.86	8.104	
12,400.00	5,686.00	12,073.76	5,686.00	84.73	84.68	90.00	-3,292.51	608.63	1,336.00	1,167.99	168.01	7.952	
12,500.00	5,686.00	12,173.76	5,686.00	86.32	86.28	90.00	-3,392.51	608.78	1,336.00	1,164.82	171.18	7.805	
12,600.00	5,686.00	12,273.76	5,686.00	87.91	87.88	90.00	-3,492.51	608.92	1,336.00	1,161.64	174.36	7.662	
12,700.00	5,686.00	12,373.76	5,686.00	89.51	89.50	90.00	-3,592.51	609.06	1,336.01	1,158.44	177.56	7.524	
12,800.00	5,686.00	12,473.76	5,686.00	91.12	91.11	90.00	-3,692.51	609.20	1,336.01	1,155.23	180.78	7.390	
12,900.00	5,686.00	12,573.76	5,686.00	92.73	92.74	90.00	-3,792.51	609.34	1,336.01	1,152.01	184.00	7.261	
13,000.00	5,686.00	12,673.76	5,686.00	94.35	94.37	90.00	-3,892.51	609.49	1,336.01	1,148.77	187.24	7.135	
13,100.00	5,686.00	12,773.76	5,686.00	95.97	96.00	90.00	-3,992.51	609.63	1,336.01	1,145.52	190.49	7.014	
13,200.00	5,686.00	12,873.76	5,686.00	97.59	97.64	90.00	-4,092.51	609.77	1,336.01	1,142.26	193.75	6.896	
13,300.00	5,686.00	12,973.76	5,686.00	99.22	99.29	90.00	-4,192.51	609.91	1,336.01	1,139.00	197.02	6.781	
13,400.00	5,686.00	13,073.76	5,686.00	100.86	100.94	90.00	-4,292.51	610.05	1,336.01	1,135.72	200.30	6.670	
13,500.00	5,686.00	13,173.76	5,686.00	102.50	102.59	90.00	-4,392.51	610.20	1,336.02	1,132.43	203.59	6.562	
13,600.00	5,686.00	13,273.76	5,686.00	104.14	104.25	90.00	-4,492.51	610.34	1,336.02	1,129.13	206.89	6.458	
13,700.00	5,686.00	13,373.76	5,686.00	105.79	105.91	90.00	-4,592.51	610.48	1,336.02	1,125.82	210.20	6.356	
13,800.00	5,686.00	13,473.76	5,686.00	107.44	107.58	90.00	-4,692.51	610.62	1,336.02	1,122.51	213.51	6.257	
13,900.00	5,686.00	13,573.76	5,686.00	109.09	109.25	90.00	-4,792.51	610.77	1,336.02	1,119.19	216.84	6.161	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-3 - 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)			
14,000.00	5,686.00	13,673.76	5,686.00	110.75	110.92	90.00	-4,892.51	610.91	1,336.02	1,115.86	220.17	6.068	
14,100.00	5,686.00	13,773.76	5,686.00	112.41	112.59	90.00	-4,992.51	611.05	1,336.02	1,112.52	223.51	5.978	
14,200.00	5,686.00	13,873.76	5,686.00	114.08	114.27	90.00	-5,092.51	611.19	1,336.03	1,109.17	226.85	5.889	
14,300.00	5,686.00	13,973.76	5,686.00	115.74	115.96	90.00	-5,192.51	611.33	1,336.03	1,105.82	230.20	5.804	
14,400.00	5,686.00	14,073.76	5,686.00	117.41	117.64	90.00	-5,292.51	611.48	1,336.03	1,102.47	233.56	5.720	
14,500.00	5,686.00	14,173.76	5,686.00	119.09	119.33	90.00	-5,392.51	611.62	1,336.03	1,099.10	236.93	5.639	
14,578.25	5,686.00	14,252.01	5,686.00	120.40	120.65	90.00	-5,470.76	611.73	1,336.03	1,096.47	239.56	5.577	
14,580.87	5,686.00	14,254.63	5,686.00	120.44	120.70	90.00	-5,473.39	611.73	1,336.03	1,096.38	239.65	5.575	
14,591.16	5,686.00	14,263.10	5,686.00	120.61	120.84	90.00	-5,481.85	611.74	1,336.02	1,096.08	239.94	5.568	
14,600.00	5,686.00	14,271.86	5,686.00	120.76	120.99	90.00	-5,490.61	611.74	1,336.02	1,095.79	240.23	5.561	
14,678.08	5,686.00	14,349.95	5,686.00	122.07	122.31	90.00	-5,568.70	611.74	1,336.02	1,093.16	242.86	5.501	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-4 - 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)			
0.00	0.00	0.00	0.00	0.00	0.00	-91.10	-0.38	-19.95	19.96				
100.00	100.00	100.00	100.00	0.14	0.14	-91.10	-0.38	-19.95	19.96	19.67	0.29	69.588	
200.00	200.00	200.00	200.00	0.50	0.50	-91.10	-0.38	-19.95	19.96	18.95	1.00	19.882	
300.00	300.00	300.00	300.00	0.86	0.86	-91.10	-0.38	-19.95	19.96	18.24	1.72	11.598	
400.00	400.00	400.00	400.00	1.22	1.22	-91.10	-0.38	-19.95	19.96	17.52	2.44	8.187	
500.00	500.00	500.00	500.00	1.58	1.58	-91.10	-0.38	-19.95	19.96	16.80	3.15	6.326	
600.00	600.00	600.00	600.00	1.94	1.94	-91.10	-0.38	-19.95	19.96	16.08	3.87	5.155	
700.00	700.00	700.00	700.00	2.29	2.29	-91.10	-0.38	-19.95	19.96	15.37	4.59	4.349	
800.00	800.00	800.00	800.00	2.65	2.65	-91.10	-0.38	-19.95	19.96	14.65	5.31	3.762	
900.00	900.00	900.00	900.00	3.01	3.01	-91.10	-0.38	-19.95	19.96	13.93	6.02	3.314	
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	-91.10	-0.38	-19.95	19.96	13.22	6.74	2.961	
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	-91.10	-0.38	-19.95	19.96	12.50	7.46	2.676	
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	-91.10	-0.38	-19.95	19.96	11.78	8.17	2.442	
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	-91.10	-0.38	-19.95	19.96	11.07	8.89	2.245 CC, ES	
1,400.00	1,399.95	1,399.95	1,399.95	4.80	4.80	-129.47	-0.38	-19.95	21.52	11.91	9.60	2.240 SF	
1,500.00	1,499.63	1,500.50	1,500.46	5.16	5.16	-137.94	2.06	-18.94	25.50	15.19	10.31	2.473	
1,600.00	1,598.77	1,601.31	1,600.94	5.52	5.53	-142.64	9.41	-15.91	30.48	19.47	11.01	2.768	
1,700.00	1,697.08	1,702.36	1,701.10	5.90	5.89	-144.79	21.69	-10.83	36.16	24.46	11.70	3.090	
1,800.00	1,794.31	1,803.64	1,800.64	6.30	6.27	-145.30	38.89	-3.73	42.41	30.02	12.39	3.422	
1,900.00	1,890.18	1,905.14	1,899.27	6.73	6.67	-144.76	61.00	5.40	49.18	36.08	13.10	3.755	
2,000.00	1,984.43	2,006.84	1,996.68	7.20	7.10	-143.56	87.97	16.55	56.47	42.63	13.84	4.080	
2,100.00	2,076.81	2,108.73	2,092.57	7.73	7.58	-141.94	119.76	29.68	64.31	49.67	14.64	4.392	
2,200.00	2,167.06	2,210.79	2,186.65	8.33	8.11	-140.08	156.30	44.78	72.70	57.18	15.53	4.682	
2,300.00	2,254.93	2,313.01	2,278.63	8.99	8.71	-138.08	197.50	61.80	81.68	65.15	16.53	4.941	
2,400.00	2,340.18	2,415.37	2,368.21	9.74	9.38	-136.01	243.26	80.70	91.25	73.59	17.67	5.165	
2,500.00	2,422.59	2,517.87	2,455.13	10.56	10.12	-133.94	293.45	101.43	101.43	82.47	18.97	5.348	
2,600.00	2,501.91	2,620.49	2,539.10	11.47	10.94	-131.89	347.95	123.95	112.23	91.78	20.45	5.489	
2,700.00	2,577.95	2,723.22	2,619.87	12.47	11.85	-129.88	406.60	148.18	123.62	101.51	22.11	5.591	
2,799.34	2,650.00	2,825.37	2,696.69	13.55	12.83	-127.94	468.81	173.88	135.54	111.58	23.96	5.657	
2,800.00	2,650.47	2,826.05	2,697.19	13.55	12.84	-127.93	469.24	174.05	135.62	111.65	23.97	5.658	
2,900.00	2,721.21	2,927.41	2,770.05	14.70	13.89	-125.69	534.35	200.95	146.89	120.79	26.11	5.627	
3,000.00	2,791.95	3,026.63	2,840.76	15.87	14.96	-123.53	598.69	227.53	157.95	129.58	28.38	5.567	
3,100.00	2,862.68	3,125.85	2,911.46	17.07	16.06	-121.65	663.02	254.11	169.21	138.51	30.70	5.512	
3,200.00	2,933.42	3,225.07	2,982.17	18.29	17.18	-120.01	727.36	280.68	180.63	147.56	33.07	5.462	
3,300.00	3,004.15	3,324.29	3,052.88	19.53	18.32	-118.56	791.69	307.26	192.17	156.71	35.47	5.418	
3,400.00	3,074.89	3,423.51	3,123.59	20.77	19.47	-117.27	856.02	333.84	203.83	165.93	37.90	5.378	
3,500.00	3,145.62	3,522.73	3,194.30	22.03	20.64	-116.13	920.36	360.41	215.57	175.22	40.35	5.343	
3,600.00	3,216.36	3,621.95	3,265.00	23.30	21.82	-115.10	984.69	386.99	227.39	184.57	42.82	5.311	
3,700.00	3,287.09	3,721.17	3,335.71	24.57	23.00	-114.18	1,049.02	413.57	239.27	193.97	45.30	5.282	
3,800.00	3,357.83	3,820.40	3,406.42	25.85	24.19	-113.34	1,113.36	440.14	251.21	203.42	47.79	5.256	
3,900.00	3,428.56	3,919.62	3,477.13	27.14	25.39	-112.58	1,177.69	466.72	263.20	212.90	50.30	5.233	
4,000.00	3,499.30	4,018.84	3,547.84	28.43	26.60	-111.89	1,242.03	493.30	275.23	222.42	52.81	5.212	
4,100.00	3,570.03	4,118.06	3,618.54	29.73	27.80	-111.25	1,306.36	519.87	287.30	231.97	55.33	5.192	
4,200.00	3,640.77	4,217.28	3,689.25	31.03	29.02	-110.67	1,370.69	546.45	299.40	241.54	57.86	5.175	
4,300.00	3,711.50	4,316.50	3,759.96	32.33	30.23	-110.13	1,435.03	573.03	311.52	251.13	60.39	5.158	
4,400.00	3,782.24	4,415.72	3,830.67	33.64	31.45	-109.63	1,499.36	599.60	323.68	260.75	62.93	5.144	
4,500.00	3,852.97	4,514.94	3,901.38	34.95	32.68	-109.16	1,563.69	626.18	335.85	270.38	65.47	5.130	
4,600.00	3,923.71	4,614.16	3,972.08	36.26	33.90	-108.73	1,628.03	652.76	348.05	280.03	68.01	5.118	
4,700.00	3,994.44	4,713.38	4,042.79	37.57	35.13	-108.33	1,692.36	679.33	360.26	289.70	70.56	5.106	
4,800.00	4,065.18	4,812.60	4,113.50	38.88	36.36	-107.96	1,756.69	705.91	372.49	299.38	73.11	5.095	
4,900.00	4,135.92	4,911.82	4,184.21	40.20	37.59	-107.60	1,821.03	732.49	384.73	309.07	75.66	5.085	
5,000.00	4,206.65	5,011.05	4,254.92	41.52	38.83	-107.28	1,885.36	759.06	396.99	318.78	78.21	5.076	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-4 - 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)			
5,100.00	4,277.39	5,110.27	4,325.62	42.84	40.06	-106.97	1,949.70	785.64	409.26	328.49	80.77	5.067	
5,200.00	4,348.12	5,209.49	4,396.33	44.16	41.30	-106.67	2,014.03	812.22	421.54	338.21	83.32	5.059	
5,300.00	4,418.86	5,308.71	4,467.04	45.48	42.53	-106.40	2,078.36	838.80	433.83	347.95	85.88	5.051	
5,400.00	4,489.59	5,407.93	4,537.75	46.80	43.77	-106.14	2,142.70	865.37	446.13	357.69	88.44	5.044	
5,500.00	4,560.33	5,507.15	4,608.46	48.12	45.01	-105.89	2,207.03	891.95	458.44	367.43	91.00	5.038	
5,600.00	4,631.06	5,606.37	4,679.16	49.45	46.25	-105.66	2,271.36	918.53	470.75	377.19	93.57	5.031	
5,700.00	4,701.80	5,721.93	4,762.89	50.77	47.67	-105.66	2,344.45	950.00	482.47	386.11	96.36	5.007	
5,800.00	4,772.53	5,862.82	4,878.83	52.10	49.13	-108.61	2,410.83	993.63	487.20	389.19	98.00	4.971	
5,900.00	4,843.27	5,986.92	4,990.82	53.42	50.03	-114.23	2,442.75	1,035.83	486.27	388.71	97.56	4.984	
5,954.41	4,881.76	6,044.81	5,044.68	54.14	50.32	-117.80	2,448.63	1,056.13	485.44	388.74	96.70	5.020	
5,965.04	4,889.32	6,055.37	5,054.55	54.28	50.36	-119.23	2,449.07	1,059.85	485.39	388.90	96.49	5.030	
6,000.00	4,914.92	6,089.21	5,086.21	54.73	50.47	-124.15	2,449.18	1,071.79	485.88	390.11	95.77	5.073	
6,050.00	4,953.22	6,135.52	5,129.43	55.35	50.58	-131.85	2,446.10	1,088.10	488.23	393.60	94.64	5.159	
6,100.00	4,993.27	6,179.71	5,170.33	55.92	50.64	-140.43	2,439.69	1,103.53	492.45	399.03	93.43	5.271	
6,150.00	5,034.75	6,222.12	5,209.03	56.45	50.65	-150.01	2,430.39	1,118.14	498.40	406.21	92.18	5.407	
6,200.00	5,077.34	6,263.02	5,245.64	56.91	50.63	-160.60	2,418.55	1,131.97	505.87	414.94	90.93	5.563	
6,250.00	5,120.74	6,302.64	5,280.27	57.32	50.57	-172.09	2,404.44	1,145.04	514.65	424.96	89.69	5.738	
6,300.00	5,164.59	6,341.16	5,312.99	57.67	50.48	-175.84	2,388.30	1,157.41	524.51	436.02	88.49	5.927	
6,350.00	5,208.58	6,378.75	5,343.86	57.94	50.37	-163.66	2,370.33	1,169.08	535.20	447.85	87.34	6.128	
6,400.00	5,252.36	6,415.54	5,372.94	58.15	50.24	-151.94	2,350.67	1,180.07	546.49	460.22	86.27	6.335	
6,450.00	5,295.61	6,450.00	5,399.06	58.30	50.11	-141.19	2,330.49	1,189.95	558.15	472.75	85.40	6.535	
6,500.00	5,337.99	6,487.15	5,425.89	58.38	49.93	-131.47	2,306.90	1,200.10	569.97	485.57	84.40	6.753	
6,550.00	5,379.18	6,522.14	5,449.80	58.40	49.75	-123.05	2,283.02	1,209.16	581.76	498.14	83.62	6.957	
6,600.00	5,418.87	6,556.69	5,472.03	58.36	49.56	-115.80	2,257.95	1,217.57	593.34	510.38	82.96	7.152	
6,650.00	5,456.75	6,590.86	5,492.59	58.27	49.35	-109.61	2,231.80	1,225.36	604.54	522.12	82.42	7.335	
6,700.00	5,492.54	6,624.70	5,511.47	58.14	49.14	-104.34	2,204.65	1,232.52	615.22	533.22	82.00	7.503	
6,750.00	5,525.96	6,658.26	5,528.68	57.96	48.92	-99.87	2,176.59	1,239.05	625.26	543.56	81.70	7.653	
6,800.00	5,556.77	6,691.58	5,544.22	57.74	48.69	-96.10	2,147.72	1,244.95	634.54	553.01	81.53	7.783	
6,850.00	5,584.72	6,724.70	5,558.08	57.49	48.45	-92.93	2,118.11	1,250.22	642.97	561.49	81.48	7.891	
6,900.00	5,609.61	6,750.00	5,567.58	57.20	48.27	-90.38	2,094.94	1,253.84	650.52	568.40	82.12	7.922	
6,950.00	5,631.24	6,790.45	5,580.75	56.90	47.96	-88.15	2,057.04	1,258.86	656.92	575.22	81.70	8.041	
7,000.00	5,649.44	6,823.15	5,589.55	56.57	47.71	-86.43	2,025.73	1,262.22	662.32	580.36	81.97	8.080	
7,050.00	5,664.09	6,850.00	5,595.51	56.22	47.51	-85.14	1,999.65	1,264.51	666.64	583.88	82.76	8.055	
7,100.00	5,675.07	6,888.30	5,602.03	55.87	47.21	-84.17	1,962.00	1,267.02	669.74	586.99	82.75	8.094	
7,150.00	5,682.29	6,920.81	5,605.70	55.50	46.96	-83.58	1,929.74	1,268.45	671.68	588.45	83.24	8.070	
7,200.00	5,685.71	6,950.00	5,607.53	55.14	46.73	-83.33	1,900.61	1,269.18	672.45	588.42	84.03	8.003	
7,219.51	5,686.00	6,965.97	5,607.95	54.99	46.61	-83.33	1,884.65	1,269.36	672.40	588.41	84.00	8.005	
7,231.70	5,686.00	6,973.92	5,608.00	54.91	46.55	-83.34	1,876.71	1,269.39	672.37	588.23	84.13	7.992	
7,300.00	5,686.00	7,042.18	5,608.00	54.42	46.04	-83.34	1,808.44	1,269.49	672.37	589.25	83.12	8.089	
7,400.00	5,686.00	7,142.18	5,608.00	53.72	45.32	-83.34	1,708.44	1,269.63	672.37	590.65	81.72	8.228	
7,500.00	5,686.00	7,242.18	5,608.00	53.06	44.64	-83.34	1,608.44	1,269.77	672.37	591.91	80.46	8.357	
7,600.00	5,686.00	7,342.18	5,608.00	52.42	44.01	-83.34	1,508.44	1,269.91	672.38	593.04	79.34	8.475	
7,700.00	5,686.00	7,442.18	5,608.00	51.82	43.42	-83.34	1,408.44	1,270.05	672.38	594.02	78.36	8.581	
7,800.00	5,686.00	7,542.18	5,608.00	51.23	42.88	-83.34	1,308.44	1,270.19	672.38	594.85	77.53	8.673	
7,900.00	5,686.00	7,642.18	5,608.00	50.68	42.39	-83.34	1,208.44	1,270.33	672.38	595.53	76.85	8.749	
8,000.00	5,686.00	7,742.18	5,608.00	50.15	41.94	-83.34	1,108.44	1,270.47	672.39	596.05	76.34	8.808	
8,100.00	5,686.00	7,842.18	5,608.00	49.64	41.55	-83.34	1,008.44	1,270.62	672.39	596.40	75.98	8.849	
8,200.00	5,686.00	7,942.18	5,608.00	49.17	41.22	-83.34	908.44	1,270.76	672.39	596.60	75.79	8.871	
8,300.00	5,686.00	8,042.18	5,608.00	48.71	40.94	-83.34	808.44	1,270.90	672.39	596.62	75.77	8.874	
8,400.00	5,686.00	8,142.18	5,608.00	48.28	40.73	-83.34	708.44	1,271.04	672.40	596.48	75.91	8.858	
8,500.00	5,686.00	8,242.18	5,608.00	47.88	40.60	-83.34	608.44	1,271.18	672.40	596.18	76.22	8.822	
8,600.00	5,686.00	8,342.18	5,608.00	47.51	40.54	-83.34	508.44	1,271.32	672.40	595.71	76.69	8.768	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-4 - 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		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
8,700.00	5,686.00	8,442.18	5,608.00	47.16	40.58	83.34	408.44	1,271.46	672.40	595.09	77.31	8.697
8,800.00	5,686.00	8,542.18	5,608.00	46.84	40.70	83.34	308.44	1,271.60	672.41	594.31	78.10	8.610
8,900.00	5,686.00	8,642.18	5,608.00	46.56	40.94	83.34	208.44	1,271.74	672.41	593.37	79.03	8.508
9,000.00	5,686.00	8,742.18	5,608.00	46.31	41.28	83.34	108.44	1,271.88	672.41	592.30	80.11	8.393
9,100.00	5,686.00	8,842.18	5,608.00	46.12	41.72	83.34	8.44	1,272.03	672.41	591.08	81.34	8.267
9,200.00	5,686.00	8,942.18	5,608.00	45.98	42.28	83.34	-91.56	1,272.17	672.42	589.72	82.69	8.132
9,300.00	5,686.00	9,042.18	5,608.00	45.93	42.94	83.34	-191.56	1,272.31	672.42	588.24	84.17	7.988
9,400.00	5,686.00	9,142.18	5,608.00	46.00	43.69	83.34	-291.56	1,272.45	672.42	586.64	85.78	7.839
9,500.00	5,686.00	9,242.18	5,608.00	46.23	44.53	83.34	-391.56	1,272.59	672.42	584.93	87.49	7.685
9,600.00	5,686.00	9,342.18	5,608.00	46.66	45.44	83.34	-491.56	1,272.73	672.43	583.11	89.32	7.528
9,700.00	5,686.00	9,442.18	5,608.00	47.29	46.43	83.34	-591.56	1,272.87	672.43	581.18	91.25	7.369
9,800.00	5,686.00	9,542.18	5,608.00	48.12	47.47	83.34	-691.56	1,273.01	672.43	579.16	93.27	7.210
9,900.00	5,686.00	9,642.18	5,608.00	49.08	48.57	83.34	-791.56	1,273.15	672.43	577.05	95.38	7.050
10,000.00	5,686.00	9,742.18	5,608.00	50.16	49.71	83.34	-891.56	1,273.29	672.44	574.86	97.57	6.892
10,100.00	5,686.00	9,842.18	5,608.00	51.32	50.90	83.34	-991.56	1,273.44	672.44	572.60	99.84	6.735
10,200.00	5,686.00	9,942.18	5,608.00	52.53	52.13	83.34	-1,091.56	1,273.58	672.44	570.25	102.19	6.581
10,300.00	5,686.00	10,042.18	5,608.00	53.79	53.39	83.34	-1,191.56	1,273.72	672.44	567.85	104.60	6.429
10,400.00	5,686.00	10,142.18	5,608.00	55.09	54.68	83.34	-1,291.56	1,273.86	672.45	565.37	107.07	6.280
10,500.00	5,686.00	10,242.18	5,608.00	56.42	56.00	83.34	-1,391.56	1,274.00	672.45	562.84	109.60	6.135
10,600.00	5,686.00	10,342.18	5,608.00	57.77	57.35	83.34	-1,491.56	1,274.14	672.45	560.26	112.19	5.994
10,700.00	5,686.00	10,442.18	5,608.00	59.15	58.72	83.34	-1,591.56	1,274.28	672.45	557.62	114.83	5.856
10,800.00	5,686.00	10,542.18	5,608.00	60.55	60.11	83.34	-1,691.56	1,274.42	672.46	554.94	117.52	5.722
10,900.00	5,686.00	10,642.18	5,608.00	61.97	61.52	83.34	-1,791.56	1,274.56	672.46	552.21	120.25	5.592
11,000.00	5,686.00	10,742.18	5,608.00	63.40	62.95	83.34	-1,891.56	1,274.70	672.46	549.44	123.02	5.466
11,100.00	5,686.00	10,842.18	5,608.00	64.85	64.39	83.34	-1,991.56	1,274.84	672.46	546.63	125.83	5.344
11,200.00	5,686.00	10,942.18	5,608.00	66.32	65.86	83.34	-2,091.56	1,274.99	672.47	543.79	128.68	5.226
11,300.00	5,686.00	11,042.18	5,608.00	67.80	67.33	83.34	-2,191.56	1,275.13	672.47	540.91	131.56	5.112
11,400.00	5,686.00	11,142.18	5,608.00	69.29	68.82	83.34	-2,291.56	1,275.27	672.47	538.00	134.47	5.001
11,500.00	5,686.00	11,242.18	5,608.00	70.79	70.33	83.34	-2,391.56	1,275.41	672.47	535.06	137.41	4.894
11,600.00	5,686.00	11,342.18	5,608.00	72.30	71.84	83.34	-2,491.56	1,275.55	672.48	532.09	140.38	4.790
11,700.00	5,686.00	11,442.18	5,608.00	73.83	73.37	83.34	-2,591.56	1,275.69	672.48	529.10	143.38	4.690
11,800.00	5,686.00	11,542.18	5,608.00	75.36	74.91	83.34	-2,691.56	1,275.83	672.48	526.08	146.40	4.593
11,900.00	5,686.00	11,642.18	5,608.00	76.90	76.45	83.34	-2,791.56	1,275.97	672.48	523.04	149.44	4.500
12,000.00	5,686.00	11,742.18	5,608.00	78.45	78.01	83.34	-2,891.56	1,276.11	672.49	519.98	152.51	4.409
12,100.00	5,686.00	11,842.18	5,608.00	80.01	79.58	83.34	-2,991.56	1,276.25	672.49	516.89	155.60	4.322
12,200.00	5,686.00	11,942.18	5,608.00	81.58	81.15	83.34	-3,091.56	1,276.40	672.49	513.79	158.70	4.237
12,300.00	5,686.00	12,042.18	5,608.00	83.15	82.73	83.34	-3,191.56	1,276.54	672.49	510.67	161.82	4.156
12,400.00	5,686.00	12,142.18	5,608.00	84.73	84.32	83.34	-3,291.56	1,276.68	672.50	507.53	164.96	4.077
12,500.00	5,686.00	12,242.18	5,608.00	86.32	85.92	83.34	-3,391.56	1,276.82	672.50	504.38	168.12	4.000
12,600.00	5,686.00	12,342.18	5,608.00	87.91	87.52	83.34	-3,491.56	1,276.96	672.50	501.21	171.29	3.926
12,700.00	5,686.00	12,442.18	5,608.00	89.51	89.13	83.34	-3,591.56	1,277.10	672.50	498.03	174.48	3.854
12,800.00	5,686.00	12,542.18	5,608.00	91.12	90.75	83.34	-3,691.56	1,277.24	672.51	494.83	177.68	3.785
12,900.00	5,686.00	12,642.18	5,608.00	92.73	92.37	83.34	-3,791.56	1,277.38	672.51	491.62	180.89	3.718
13,000.00	5,686.00	12,742.18	5,608.00	94.35	93.99	83.34	-3,891.56	1,277.52	672.51	488.40	184.11	3.653
13,100.00	5,686.00	12,842.18	5,608.00	95.97	95.63	83.34	-3,991.56	1,277.66	672.51	485.17	187.35	3.590
13,200.00	5,686.00	12,942.18	5,608.00	97.59	97.26	83.34	-4,091.56	1,277.80	672.52	481.92	190.59	3.529
13,300.00	5,686.00	13,042.18	5,608.00	99.22	98.90	83.34	-4,191.56	1,277.95	672.52	478.67	193.85	3.469
13,400.00	5,686.00	13,142.18	5,608.00	100.86	100.55	83.34	-4,291.56	1,278.09	672.52	475.40	197.12	3.412
13,500.00	5,686.00	13,242.18	5,608.00	102.50	102.20	83.34	-4,391.56	1,278.23	672.52	472.13	200.39	3.356
13,600.00	5,686.00	13,342.18	5,608.00	104.14	103.85	83.34	-4,491.56	1,278.37	672.53	468.85	203.68	3.302
13,700.00	5,686.00	13,442.18	5,608.00	105.79	105.51	83.34	-4,591.56	1,278.51	672.53	465.55	206.97	3.249
13,800.00	5,686.00	13,542.18	5,608.00	107.44	107.17	83.34	-4,691.56	1,278.65	672.53	462.25	210.28	3.198

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS 9-58 23-26-4 - 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)			
13,900.00	5,686.00	13,642.18	5,608.00	109.09	108.84	83.34	-4,791.56	1,278.79	672.53	458.95	213.59	3.149	
14,000.00	5,686.00	13,742.18	5,608.00	110.75	110.51	83.34	-4,891.56	1,278.93	672.54	455.63	216.90	3.101	
14,100.00	5,686.00	13,842.18	5,608.00	112.41	112.18	83.34	-4,991.56	1,279.07	672.54	452.31	220.23	3.054	
14,200.00	5,686.00	13,942.18	5,608.00	114.08	113.85	83.34	-5,091.56	1,279.21	672.54	448.98	223.56	3.008	
14,300.00	5,686.00	14,042.18	5,608.00	115.74	115.53	83.34	-5,191.56	1,279.36	672.54	445.65	226.90	2.964	
14,400.00	5,686.00	14,142.18	5,608.00	117.41	117.21	83.34	-5,291.56	1,279.50	672.55	442.31	230.24	2.921	
14,500.00	5,686.00	14,242.18	5,608.00	119.09	118.90	83.34	-5,391.56	1,279.64	672.55	438.96	233.59	2.879	
14,578.25	5,686.00	14,320.43	5,608.00	120.40	120.22	83.34	-5,469.80	1,279.75	672.55	436.34	236.21	2.847	
14,580.87	5,686.00	14,322.81	5,608.00	120.44	120.26	83.34	-5,472.18	1,279.75	672.55	436.26	236.29	2.846	
14,583.50	5,686.00	14,324.78	5,608.00	120.49	120.29	83.34	-5,474.15	1,279.75	672.55	436.21	236.34	2.846	
14,600.00	5,686.00	14,341.24	5,608.00	120.76	120.57	83.34	-5,490.61	1,279.75	672.55	435.66	236.89	2.839	
14,678.08	5,686.00	14,419.42	5,608.00	122.07	121.89	83.34	-5,568.79	1,279.75	672.55	433.03	239.52	2.808	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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:		SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-10 - 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	88.96	1.82	100.04	100.06							
100.00	100.00	100.00	100.00	0.14	0.14	88.96	1.82	100.04	100.06	99.77	0.29	348.901				
200.00	200.00	200.00	200.00	0.50	0.50	88.96	1.82	100.04	100.06	99.05	1.00	99.686				
300.00	300.00	300.00	300.00	0.86	0.86	88.96	1.82	100.04	100.06	98.34	1.72	58.150				
400.00	400.00	400.00	400.00	1.22	1.22	88.96	1.82	100.04	100.06	97.62	2.44	41.047				
500.00	500.00	500.00	500.00	1.58	1.58	88.96	1.82	100.04	100.06	96.90	3.15	31.718				
600.00	600.00	600.00	600.00	1.94	1.94	88.96	1.82	100.04	100.06	96.19	3.87	25.845				
700.00	700.00	700.00	700.00	2.29	2.29	88.96	1.82	100.04	100.06	95.47	4.59	21.806				
800.00	800.00	800.00	800.00	2.65	2.65	88.96	1.82	100.04	100.06	94.75	5.31	18.860 CC, ES				
900.00	900.00	895.47	895.43	3.01	2.99	88.34	2.95	102.14	102.29	96.29	6.00	17.051				
1,000.00	1,000.00	990.46	990.15	3.37	3.33	86.67	6.32	108.40	109.03	102.35	6.68	16.325 SF				
1,100.00	1,100.00	1,084.52	1,083.47	3.73	3.68	84.30	11.84	118.67	120.40	113.06	7.34	16.395				
1,200.00	1,200.00	1,177.21	1,174.76	4.09	4.03	81.68	19.40	132.74	136.51	128.52	7.99	17.086				
1,300.00	1,300.00	1,268.14	1,263.46	4.45	4.41	79.13	28.85	150.32	157.37	148.75	8.61	18.271				
1,400.00	1,399.95	1,357.51	1,349.63	4.80	4.82	44.26	40.08	171.20	181.10	171.89	9.21	19.659				
1,500.00	1,499.63	1,445.77	1,433.54	5.16	5.27	43.04	53.03	195.29	205.65	195.87	9.78	21.035				
1,600.00	1,598.77	1,532.90	1,515.05	5.52	5.76	42.55	67.60	222.39	230.81	220.47	10.34	22.312				
1,700.00	1,697.08	1,618.90	1,594.04	5.90	6.31	42.54	83.69	252.32	256.51	245.60	10.91	23.511				
1,800.00	1,794.31	1,700.00	1,667.06	6.30	6.87	42.82	100.39	283.38	282.73	271.30	11.42	24.751				
1,900.00	1,890.18	1,787.47	1,744.06	6.73	7.57	43.44	120.04	319.92	309.39	297.29	12.09	25.581				
2,000.00	1,984.43	1,870.05	1,814.94	7.20	8.29	44.16	140.10	357.23	336.58	323.84	12.75	26.403				
2,100.00	2,076.81	1,951.52	1,883.00	7.73	9.08	44.99	161.29	396.64	364.32	350.85	13.47	27.053				
2,200.00	2,167.06	2,031.88	1,948.22	8.33	9.92	45.89	183.52	438.00	392.60	378.33	14.27	27.510				
2,300.00	2,254.93	2,111.18	2,010.58	8.99	10.82	46.82	206.71	481.13	421.46	406.28	15.18	27.759				
2,400.00	2,340.18	2,189.43	2,070.07	9.74	11.78	47.76	230.78	525.90	450.91	434.69	16.22	27.792				
2,500.00	2,422.59	2,266.66	2,126.70	10.56	12.80	48.70	255.65	572.15	480.97	463.55	17.41	27.620				
2,600.00	2,501.91	2,342.93	2,180.48	11.47	13.87	49.63	281.24	619.76	511.63	492.87	18.76	27.273				
2,700.00	2,577.95	2,418.25	2,231.45	12.47	14.99	50.52	307.51	668.61	542.89	522.62	20.27	26.784				
2,799.34	2,650.00	2,500.00	2,284.24	13.55	16.26	51.55	337.06	723.58	574.61	552.49	22.12	25.976				
2,800.00	2,650.47	2,500.00	2,284.24	13.55	16.26	51.55	337.06	723.58	574.81	552.69	22.12	25.985				
2,900.00	2,721.21	2,566.18	2,324.99	14.70	17.37	52.88	361.75	769.51	608.71	584.97	23.75	25.633				
3,000.00	2,791.95	2,638.50	2,367.42	15.87	18.61	54.06	389.48	821.08	646.00	620.45	25.55	25.279				
3,100.00	2,862.68	2,709.47	2,406.88	17.07	19.88	54.97	417.41	873.04	686.34	658.99	27.34	25.101				
3,200.00	2,933.42	2,799.17	2,455.30	18.29	21.53	55.92	453.17	939.54	728.25	698.60	29.65	24.560				
3,300.00	3,004.15	2,889.32	2,503.96	19.53	23.20	56.77	489.10	1,006.39	770.31	738.30	32.01	24.063				
3,400.00	3,074.89	2,979.47	2,552.62	20.77	24.90	57.53	525.04	1,073.23	812.50	778.10	34.41	23.615				
3,500.00	3,145.62	3,069.63	2,601.28	22.03	26.60	58.22	560.98	1,140.08	854.80	817.98	36.83	23.212				
3,600.00	3,216.36	3,159.78	2,649.94	23.30	28.31	58.84	596.92	1,206.92	897.19	857.93	39.27	22.848				
3,700.00	3,287.09	3,249.94	2,698.60	24.57	30.03	59.41	632.86	1,273.77	939.66	897.94	41.73	22.519				
3,800.00	3,357.83	3,340.09	2,747.26	25.85	31.75	59.93	668.80	1,340.61	982.20	938.00	44.20	22.220				
3,900.00	3,428.56	3,430.25	2,795.93	27.14	33.48	60.41	704.73	1,407.46	1,024.81	978.11	46.69	21.947				
4,000.00	3,499.30	3,520.40	2,844.59	28.43	35.21	60.84	740.67	1,474.30	1,067.46	1,018.26	49.20	21.698				
4,100.00	3,570.03	3,610.55	2,893.25	29.73	36.95	61.25	776.61	1,541.15	1,110.16	1,058.45	51.71	21.469				
4,200.00	3,640.77	3,700.71	2,941.91	31.03	38.69	61.62	812.55	1,607.99	1,152.91	1,098.68	54.23	21.259				
4,300.00	3,711.50	3,790.86	2,990.57	32.33	40.44	61.97	848.49	1,674.84	1,195.69	1,138.93	56.76	21.065				
4,400.00	3,782.24	3,881.02	3,039.23	33.64	42.19	62.30	884.43	1,741.68	1,238.51	1,179.21	59.30	20.886				
4,500.00	3,852.97	3,971.17	3,087.89	34.95	43.94	62.60	920.36	1,808.53	1,281.35	1,219.51	61.84	20.720				
4,600.00	3,923.71	4,061.33	3,136.55	36.26	45.69	62.88	956.30	1,875.38	1,324.23	1,259.84	64.39	20.566				
4,700.00	3,994.44	4,151.48	3,185.22	37.57	47.44	63.15	992.24	1,942.22	1,367.13	1,300.19	66.94	20.423				
4,800.00	4,065.18	4,241.63	3,233.88	38.88	49.20	63.40	1,028.18	2,009.07	1,410.05	1,340.55	69.50	20.289				
4,900.00	4,135.92	4,331.79	3,282.54	40.20	50.95	63.63	1,064.12	2,075.91	1,452.99	1,380.93	72.06	20.163				
5,000.00	4,206.65	4,421.94	3,331.20	41.52	52.71	63.85	1,100.06	2,142.76	1,495.95	1,421.33	74.63	20.046				

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-10 - 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)		
5,100.00	4,277.39	4,512.10	3,379.86	42.84	54.47	64.06	1,135.99	2,209.60	1,538.93	1,461.74	77.19	19.936	
5,200.00	4,348.12	4,602.25	3,428.52	44.16	56.23	64.26	1,171.93	2,276.45	1,581.93	1,502.16	79.76	19.832	
5,300.00	4,418.86	4,692.41	3,477.18	45.48	57.99	64.45	1,207.87	2,343.29	1,624.93	1,542.60	82.34	19.735	
5,400.00	4,489.59	4,782.56	3,525.85	46.80	59.75	64.63	1,243.81	2,410.14	1,667.96	1,583.04	84.92	19.643	
5,500.00	4,560.33	4,872.71	3,574.51	48.12	61.51	64.79	1,279.75	2,476.98	1,710.99	1,623.50	87.49	19.556	
5,600.00	4,631.06	4,962.87	3,623.17	49.45	63.28	64.95	1,315.69	2,543.83	1,754.04	1,663.96	90.07	19.473	
5,700.00	4,701.80	5,053.02	3,671.83	50.77	65.04	65.11	1,351.62	2,610.67	1,797.09	1,704.44	92.66	19.395	
5,800.00	4,772.53	5,143.18	3,720.49	52.10	66.81	65.25	1,387.56	2,677.52	1,840.16	1,744.92	95.24	19.321	
5,900.00	4,843.27	5,233.33	3,769.15	53.42	68.57	65.39	1,423.50	2,744.37	1,883.24	1,785.41	97.83	19.250	
5,954.41	4,881.76	5,282.39	3,795.63	54.14	69.53	65.47	1,443.06	2,780.74	1,906.68	1,807.44	99.24	19.214	
6,000.00	4,914.92	5,323.76	3,817.96	54.73	70.34	64.11	1,459.55	2,811.41	1,925.80	1,825.44	100.36	19.189	
6,050.00	4,953.22	5,369.54	3,842.67	55.35	71.24	61.58	1,477.80	2,845.36	1,945.50	1,844.04	101.46	19.175	
6,100.00	4,993.27	5,415.41	3,867.43	55.92	72.14	57.83	1,496.08	2,879.37	1,963.73	1,861.32	102.41	19.176	
6,150.00	5,034.75	5,461.02	3,892.05	56.45	73.03	52.77	1,514.27	2,913.19	1,980.41	1,877.22	103.19	19.192	
6,200.00	5,077.34	5,506.03	3,916.34	56.91	73.91	46.37	1,532.21	2,946.56	1,995.48	1,891.67	103.80	19.194	
6,250.00	5,120.74	5,550.09	3,940.12	57.32	74.78	38.74	1,549.77	2,979.22	2,008.91	1,904.69	104.22	19.275	
6,300.00	5,164.59	5,592.86	3,963.21	57.67	75.62	30.21	1,566.82	3,010.94	2,020.71	1,916.26	104.45	19.346	
6,350.00	5,208.58	5,634.02	3,985.43	57.94	76.42	21.26	1,583.23	3,041.46	2,030.91	1,926.44	104.47	19.440	
6,400.00	5,252.36	5,673.26	4,006.61	58.15	77.19	12.45	1,598.87	3,070.55	2,039.57	1,935.29	104.28	19.558	
6,450.00	5,295.61	5,710.28	4,026.59	58.30	77.92	4.24	1,613.63	3,098.00	2,046.75	1,942.87	103.88	19.702	
6,500.00	5,337.99	5,744.80	4,045.22	58.38	78.60	-3.10	1,627.39	3,123.59	2,052.55	1,949.27	103.28	19.874	
6,550.00	5,379.18	5,776.55	4,062.36	58.40	79.22	-9.48	1,640.04	3,147.13	2,057.06	1,954.59	102.46	20.076	
6,600.00	5,418.87	5,805.29	4,077.87	58.36	79.78	-14.94	1,651.50	3,168.44	2,060.39	1,958.94	101.45	20.309	
6,650.00	5,456.75	5,830.80	4,091.64	58.27	80.28	-19.58	1,661.67	3,187.36	2,062.66	1,962.40	100.26	20.574	
6,700.00	5,492.54	5,852.90	4,103.57	58.14	80.72	-23.50	1,670.48	3,203.75	2,063.96	1,965.08	98.88	20.872	
6,750.00	5,525.96	5,871.40	4,113.56	57.96	81.08	-26.82	1,677.86	3,217.47	2,064.42	1,967.06	97.36	21.205	
6,800.00	5,556.77	5,886.18	4,121.53	57.74	81.37	-29.60	1,683.75	3,228.42	2,064.11	1,968.43	95.69	21.571	
6,850.00	5,584.72	5,897.11	4,127.43	57.49	81.58	-31.92	1,688.11	3,236.53	2,063.13	1,969.23	93.90	21.971	
6,900.00	5,609.61	5,904.12	4,131.22	57.20	81.72	-33.83	1,690.90	3,241.72	2,061.54	1,969.51	92.03	22.401	
6,950.00	5,631.24	5,907.15	4,132.85	56.90	81.78	-35.38	1,692.11	3,243.97	2,059.40	1,969.31	90.09	22.859	
7,000.00	5,649.44	5,906.18	4,132.33	56.57	81.76	-36.59	1,691.72	3,243.25	2,056.73	1,968.62	88.11	23.342	
7,050.00	5,664.09	5,901.21	4,129.65	56.22	81.66	-37.51	1,689.74	3,239.57	2,053.55	1,967.43	86.12	23.845	
7,100.00	5,675.07	5,892.29	4,124.83	55.87	81.49	-38.16	1,686.18	3,232.95	2,049.85	1,965.70	84.15	24.360	
7,150.00	5,682.29	5,879.48	4,117.91	55.50	81.24	-38.55	1,681.08	3,223.45	2,045.60	1,963.39	82.22	24.880	
7,200.00	5,685.71	5,862.88	4,108.95	55.14	80.91	-38.72	1,674.46	3,211.14	2,040.77	1,960.42	80.35	25.398	
7,219.51	5,686.00	5,855.39	4,104.91	54.99	80.76	-38.73	1,671.48	3,205.60	2,038.71	1,959.07	79.64	25.598	
7,300.00	5,686.00	5,823.40	4,087.64	54.42	80.14	-37.90	1,658.72	3,181.87	2,031.34	1,954.49	76.85	26.432	
7,400.00	5,686.00	5,783.64	4,066.18	53.72	79.36	-36.87	1,642.87	3,152.39	2,025.91	1,952.23	73.67	27.499	
7,481.07	5,686.00	5,751.41	4,048.79	53.19	78.73	-36.03	1,630.02	3,128.50	2,024.54	1,953.16	71.38	28.364	
7,500.00	5,686.00	5,743.88	4,044.72	53.06	78.58	-35.84	1,627.02	3,122.91	2,024.61	1,953.74	70.88	28.566	
7,600.00	5,686.00	5,704.12	4,023.27	52.42	77.80	-34.80	1,611.17	3,093.44	2,027.48	1,958.96	68.51	29.592	
7,700.00	5,686.00	5,664.37	4,001.81	51.82	77.02	-33.77	1,595.33	3,063.96	2,034.48	1,967.85	66.63	30.535	
7,800.00	5,686.00	5,624.61	3,980.35	51.23	76.24	-32.74	1,579.48	3,034.48	2,045.58	1,980.33	65.25	31.350	
7,900.00	5,686.00	5,584.85	3,958.89	50.68	75.46	-31.72	1,563.63	3,005.00	2,060.71	1,996.32	64.39	32.005	
8,000.00	5,686.00	5,545.10	3,937.43	50.15	74.68	-30.69	1,547.78	2,975.53	2,079.78	2,015.75	64.03	32.482	
8,100.00	5,686.00	5,505.34	3,915.97	49.64	73.90	-29.67	1,531.93	2,946.05	2,102.69	2,038.54	64.14	32.781	
8,200.00	5,686.00	5,465.58	3,894.51	49.17	73.12	-28.65	1,516.08	2,916.57	2,129.30	2,064.62	64.68	32.921	
8,300.00	5,686.00	5,425.83	3,873.05	48.71	72.34	-27.64	1,500.24	2,887.09	2,159.49	2,093.92	65.57	32.933	
8,400.00	5,686.00	5,386.07	3,851.59	48.28	71.56	-26.63	1,484.39	2,857.61	2,193.11	2,126.36	66.75	32.856	
8,500.00	5,686.00	5,346.31	3,830.14	47.88	70.79	-25.63	1,468.54	2,828.14	2,230.00	2,161.86	68.14	32.727	
8,600.00	5,686.00	5,306.56	3,808.68	47.51	70.01	-24.63	1,452.69	2,798.66	2,270.00	2,200.32	69.68	32.579	
8,700.00	5,686.00	5,266.80	3,787.22	47.16	69.23	-23.64	1,436.84	2,769.18	2,312.95	2,241.65	71.30	32.441	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-10 - 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	
8,800.00	5,686.00	5,227.04	3,765.76	46.84	68.45	-22.66	1,420.99	2,739.70	2,358.68	2,285.73	72.96	32.330	
8,900.00	5,686.00	5,187.29	3,744.30	46.56	67.67	-21.69	1,405.15	2,710.23	2,407.05	2,332.44	74.61	32.262	
9,000.00	5,686.00	5,147.53	3,722.84	46.31	66.89	-20.73	1,389.30	2,680.75	2,457.90	2,381.67	76.23	32.244	
9,100.00	5,686.00	5,107.77	3,701.38	46.12	66.11	-19.77	1,373.45	2,651.27	2,511.06	2,433.28	77.79	32.281	
9,200.00	5,686.00	5,068.02	3,679.92	45.98	65.34	-18.82	1,357.60	2,621.79	2,566.41	2,487.14	79.27	32.375	
9,300.00	5,686.00	5,028.26	3,658.46	45.93	64.56	-17.89	1,341.75	2,592.31	2,623.80	2,543.13	80.67	32.526	
9,400.00	5,686.00	4,988.50	3,637.00	46.00	63.78	-16.96	1,325.91	2,562.84	2,683.10	2,601.13	81.97	32.732	
9,500.00	5,686.00	4,948.75	3,615.55	46.23	63.00	-16.04	1,310.06	2,533.36	2,744.19	2,661.02	83.17	32.994	
9,600.00	5,686.00	4,908.99	3,594.09	46.66	62.22	-15.14	1,294.21	2,503.88	2,806.95	2,722.68	84.28	33.307	
9,700.00	5,686.00	4,869.23	3,572.63	47.29	61.45	-14.24	1,278.36	2,474.40	2,871.27	2,785.99	85.28	33.669	
9,800.00	5,686.00	4,829.48	3,551.17	48.12	60.67	-13.36	1,262.51	2,444.92	2,937.05	2,850.87	86.18	34.079	
9,900.00	5,686.00	4,789.72	3,529.71	49.08	59.89	-12.48	1,246.66	2,415.45	3,004.19	2,917.20	86.99	34.533	
10,000.00	5,686.00	4,749.96	3,508.25	50.16	59.12	-11.62	1,230.82	2,385.97	3,072.60	2,984.89	87.71	35.030	
10,100.00	5,686.00	4,710.21	3,486.79	51.32	58.34	-10.77	1,214.97	2,356.49	3,142.21	3,053.86	88.35	35.567	
10,200.00	5,686.00	4,670.45	3,465.33	52.53	57.56	-9.93	1,199.12	2,327.01	3,212.93	3,124.03	88.89	36.143	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-11 - 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)			
0.00	0.00	0.00	0.00	0.00	0.00	88.78	2.55	119.99	120.02				
100.00	100.00	100.00	100.00	0.14	0.14	88.78	2.55	119.99	120.02	119.73	0.29	418.513	
200.00	200.00	200.00	200.00	0.50	0.50	88.78	2.55	119.99	120.02	119.02	1.00	119.575	
300.00	300.00	300.00	300.00	0.86	0.86	88.78	2.55	119.99	120.02	118.30	1.72	69.752	
400.00	400.00	400.00	400.00	1.22	1.22	88.78	2.55	119.99	120.02	117.58	2.44	49.237	
500.00	500.00	500.00	500.00	1.58	1.58	88.78	2.55	119.99	120.02	116.87	3.15	38.047	
600.00	600.00	600.00	600.00	1.94	1.94	88.78	2.55	119.99	120.02	116.15	3.87	31.001	
700.00	700.00	700.00	700.00	2.29	2.29	88.78	2.55	119.99	120.02	115.43	4.59	26.157 CC, ES	
800.00	800.00	794.49	794.45	2.65	2.63	88.34	3.55	122.11	122.28	117.01	5.28	23.164	
900.00	900.00	888.53	888.22	3.01	2.97	87.10	6.51	128.41	129.11	123.15	5.96	21.669	
1,000.00	1,000.00	981.65	980.63	3.37	3.31	85.31	11.38	138.75	140.56	133.93	6.62	21.219 SF	
1,100.00	1,100.00	1,073.45	1,071.07	3.73	3.67	83.27	18.05	152.92	156.68	149.40	7.27	21.541	
1,200.00	1,200.00	1,163.53	1,158.99	4.09	4.05	81.21	26.39	170.64	177.47	169.57	7.90	22.456	
1,300.00	1,300.00	1,251.56	1,243.92	4.45	4.45	79.29	36.24	191.55	202.86	194.34	8.51	23.834	
1,400.00	1,399.95	1,337.85	1,326.06	4.80	4.90	44.78	47.49	215.47	230.94	221.86	9.08	25.424	
1,500.00	1,499.63	1,422.92	1,405.78	5.16	5.39	43.72	60.13	242.31	259.73	250.08	9.65	26.928	
1,600.00	1,598.77	1,506.75	1,482.97	5.52	5.92	43.24	74.05	271.88	289.03	278.84	10.20	28.344	
1,700.00	1,697.08	1,589.34	1,557.54	5.90	6.51	43.16	89.16	303.98	318.79	308.03	10.75	29.648	
1,800.00	1,794.31	1,670.68	1,629.42	6.30	7.16	43.38	105.37	338.41	348.95	337.62	11.32	30.821	
1,900.00	1,890.18	1,750.78	1,698.57	6.73	7.87	43.79	122.59	375.00	379.51	367.59	11.92	31.843	
2,000.00	1,984.43	1,829.66	1,764.94	7.20	8.63	44.34	140.74	413.56	410.49	397.93	12.56	32.687	
2,100.00	2,076.81	1,900.00	1,822.59	7.73	9.36	44.85	157.90	450.01	441.98	428.84	13.13	33.655	
2,200.00	2,167.06	1,983.83	1,889.31	8.33	10.31	45.69	179.51	495.92	473.76	459.72	14.05	33.729	
2,300.00	2,254.93	2,059.17	1,947.32	8.99	11.24	46.43	199.98	539.41	506.09	491.15	14.94	33.884	
2,400.00	2,340.18	2,133.39	2,002.56	9.74	12.22	47.19	221.09	584.25	538.89	522.95	15.94	33.800	
2,500.00	2,422.59	2,200.00	2,050.47	10.56	13.13	47.80	240.79	626.11	572.23	555.28	16.95	33.752	
2,600.00	2,501.91	2,278.63	2,104.91	11.47	14.30	48.69	264.95	677.43	605.97	587.59	18.38	32.972	
2,700.00	2,577.95	2,349.73	2,152.09	12.47	15.41	49.41	287.60	725.55	640.25	620.42	19.83	32.288	
2,799.34	2,650.00	2,419.41	2,196.38	13.55	16.55	50.11	310.51	774.23	674.78	653.36	21.43	31.493	
2,800.00	2,650.47	2,419.87	2,196.67	13.55	16.56	50.12	310.67	774.55	675.02	653.58	21.44	31.487	
2,900.00	2,721.21	2,500.00	2,245.11	14.70	17.92	51.75	337.85	832.29	711.91	688.51	23.40	30.426	
3,000.00	2,791.95	2,556.99	2,277.92	15.87	18.95	52.72	357.70	874.46	751.87	726.98	24.89	30.205	
3,100.00	2,862.68	2,623.65	2,314.50	17.07	20.18	53.69	381.43	924.87	794.95	768.32	26.62	29.860	
3,200.00	2,933.42	2,700.48	2,354.67	18.29	21.64	54.61	409.32	984.12	840.48	811.85	28.63	29.360	
3,300.00	3,004.15	2,788.34	2,400.33	19.53	23.34	55.54	441.29	1,052.04	886.52	855.57	30.95	28.646	
3,400.00	3,074.89	2,876.21	2,446.00	20.77	25.05	56.39	473.26	1,119.96	932.72	899.42	33.30	28.007	
3,500.00	3,145.62	2,964.08	2,491.67	22.03	26.77	57.16	505.23	1,187.88	979.08	943.39	35.69	27.436	
3,600.00	3,216.36	3,051.95	2,537.34	23.30	28.50	57.85	537.20	1,255.80	1,025.56	987.47	38.09	26.923	
3,700.00	3,287.09	3,139.81	2,583.01	24.57	30.24	58.49	569.17	1,323.71	1,072.16	1,031.64	40.52	26.460	
3,800.00	3,357.83	3,227.68	2,628.67	25.85	31.98	59.08	601.14	1,391.63	1,118.85	1,075.88	42.97	26.041	
3,900.00	3,428.56	3,315.55	2,674.34	27.14	33.73	59.62	633.12	1,459.55	1,165.62	1,120.20	45.42	25.661	
4,000.00	3,499.30	3,403.42	2,720.01	28.43	35.48	60.12	665.09	1,527.47	1,212.47	1,164.58	47.90	25.314	
4,100.00	3,570.03	3,491.28	2,765.68	29.73	37.24	60.58	697.06	1,595.39	1,259.39	1,209.01	50.38	24.998	
4,200.00	3,640.77	3,579.15	2,811.35	31.03	39.00	61.01	729.03	1,663.31	1,306.37	1,253.50	52.87	24.708	
4,300.00	3,711.50	3,667.02	2,857.01	32.33	40.76	61.41	761.00	1,731.23	1,353.40	1,298.02	55.37	24.441	
4,400.00	3,782.24	3,754.89	2,902.68	33.64	42.53	61.78	792.97	1,799.15	1,400.48	1,342.59	57.88	24.195	
4,500.00	3,852.97	3,842.75	2,948.35	34.95	44.30	62.13	824.94	1,867.07	1,447.60	1,387.20	60.40	23.967	
4,600.00	3,923.71	3,930.62	2,994.02	36.26	46.07	62.45	856.91	1,934.98	1,494.76	1,431.84	62.92	23.756	
4,700.00	3,994.44	4,018.49	3,039.68	37.57	47.84	62.76	888.89	2,002.90	1,541.96	1,476.51	65.45	23.560	
4,800.00	4,065.18	4,106.36	3,085.35	38.88	49.61	63.05	920.86	2,070.82	1,589.19	1,521.21	67.98	23.377	
4,900.00	4,135.92	4,194.22	3,131.02	40.20	51.39	63.32	952.83	2,138.74	1,636.45	1,565.93	70.52	23.207	
5,000.00	4,206.65	4,282.09	3,176.69	41.52	53.16	63.58	984.80	2,206.66	1,683.74	1,610.68	73.06	23.047	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-11 - 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)			
5,100.00	4,277.39	4,369.96	3,222.36	42.84	54.94	63.82	1,016.77	2,274.58	1,731.05	1,655.45	75.60	22.897	
5,200.00	4,348.12	4,457.82	3,268.02	44.16	56.72	64.05	1,048.74	2,342.50	1,778.39	1,700.24	78.15	22.757	
5,300.00	4,418.86	4,545.69	3,313.69	45.48	58.50	64.27	1,080.71	2,410.42	1,825.74	1,745.05	80.70	22.625	
5,400.00	4,489.59	4,633.56	3,359.36	46.80	60.28	64.48	1,112.68	2,478.33	1,873.12	1,789.87	83.25	22.500	
5,500.00	4,560.33	4,721.43	3,405.03	48.12	62.06	64.67	1,144.65	2,546.25	1,920.51	1,834.71	85.80	22.383	
5,600.00	4,631.06	4,809.29	3,450.70	49.45	63.84	64.86	1,176.63	2,614.17	1,967.92	1,879.56	88.36	22.271	
5,700.00	4,701.80	4,897.16	3,496.36	50.77	65.62	65.04	1,208.60	2,682.09	2,015.35	1,924.43	90.92	22.166	
5,800.00	4,772.53	4,985.03	3,542.03	52.10	67.40	65.21	1,240.57	2,750.01	2,062.79	1,969.31	93.48	22.066	
5,900.00	4,843.27	5,072.90	3,587.70	53.42	69.18	65.37	1,272.54	2,817.93	2,110.25	2,014.20	96.04	21.972	
5,954.41	4,881.76	5,120.71	3,612.55	54.14	70.16	65.46	1,289.93	2,854.88	2,136.07	2,038.63	97.44	21.922	
6,000.00	4,914.92	5,161.08	3,633.53	54.73	70.97	64.38	1,304.63	2,886.09	2,157.20	2,058.65	98.56	21.888	
6,050.00	4,953.22	5,205.89	3,656.82	55.35	71.88	62.15	1,320.93	2,920.73	2,179.11	2,079.45	99.67	21.864	
6,100.00	4,993.27	5,250.92	3,680.23	55.92	72.80	58.69	1,337.31	2,955.54	2,199.55	2,098.91	100.64	21.855	
6,150.00	5,034.75	5,295.83	3,703.57	56.45	73.71	53.90	1,353.65	2,990.25	2,218.39	2,116.93	101.47	21.863	
6,200.00	5,077.34	5,340.27	3,726.66	56.91	74.61	47.76	1,369.83	3,024.60	2,235.57	2,133.43	102.14	21.888	
6,250.00	5,120.74	5,383.91	3,749.35	57.32	75.50	40.39	1,385.70	3,058.33	2,251.02	2,148.38	102.63	21.932	
6,300.00	5,164.59	5,426.42	3,771.44	57.67	76.36	32.09	1,401.17	3,091.19	2,264.72	2,161.76	102.95	21.997	
6,350.00	5,208.58	5,467.46	3,792.77	57.94	77.20	23.36	1,416.10	3,122.92	2,276.66	2,173.58	103.09	22.085	
6,400.00	5,252.36	5,506.74	3,813.18	58.15	78.00	14.75	1,430.39	3,153.27	2,286.89	2,183.85	103.03	22.196	
6,450.00	5,295.61	5,543.94	3,832.52	58.30	78.75	6.73	1,443.93	3,182.03	2,295.42	2,192.64	102.78	22.333	
6,500.00	5,337.99	5,578.80	3,850.63	58.38	79.46	-0.44	1,456.61	3,208.97	2,302.34	2,200.00	102.34	22.497	
6,550.00	5,379.18	5,611.03	3,867.39	58.40	80.11	-6.68	1,468.34	3,233.89	2,307.71	2,206.00	101.71	22.689	
6,600.00	5,418.87	5,640.40	3,882.65	58.36	80.71	-12.04	1,479.03	3,256.59	2,311.62	2,210.72	100.90	22.911	
6,650.00	5,456.75	5,666.69	3,896.31	58.27	81.25	-16.60	1,488.59	3,276.91	2,314.16	2,214.25	99.91	23.163	
6,700.00	5,492.54	5,689.68	3,908.27	58.14	81.71	-20.49	1,496.96	3,294.69	2,315.41	2,216.66	98.76	23.446	
6,750.00	5,525.96	5,709.22	3,918.42	57.96	82.11	-23.81	1,504.07	3,309.79	2,315.48	2,218.03	97.45	23.760	
6,800.00	5,556.77	5,725.14	3,926.70	57.74	82.43	-26.63	1,509.86	3,322.10	2,314.46	2,218.44	96.02	24.105	
6,850.00	5,584.72	5,737.34	3,933.03	57.49	82.68	-29.04	1,514.30	3,331.52	2,312.42	2,217.95	94.47	24.479	
6,900.00	5,609.61	5,745.70	3,937.38	57.20	82.85	-31.09	1,517.34	3,337.99	2,309.44	2,216.62	92.82	24.881	
6,950.00	5,631.24	5,750.18	3,939.71	56.90	82.94	-32.81	1,518.97	3,341.45	2,305.58	2,214.48	91.10	25.309	
7,000.00	5,649.44	5,750.74	3,940.00	56.57	82.95	-34.25	1,519.18	3,341.88	2,300.88	2,211.56	89.32	25.759	
7,050.00	5,664.09	5,747.37	3,938.25	56.22	82.89	-35.43	1,517.95	3,339.28	2,295.38	2,207.86	87.52	26.226	
7,100.00	5,675.07	5,740.10	3,934.47	55.87	82.74	-36.37	1,515.31	3,333.66	2,289.11	2,203.39	85.72	26.705	
7,150.00	5,682.29	5,728.98	3,928.69	55.50	82.51	-37.09	1,511.26	3,325.06	2,282.05	2,198.12	83.93	27.190	
7,200.00	5,685.71	5,714.11	3,920.96	55.14	82.21	-37.62	1,505.85	3,313.56	2,274.22	2,192.03	82.18	27.673	
7,219.51	5,686.00	5,707.30	3,917.42	54.99	82.07	-37.77	1,503.37	3,308.31	2,270.94	2,189.43	81.51	27.859	
7,300.00	5,686.00	5,678.11	3,902.25	54.42	81.48	-37.08	1,492.75	3,285.74	2,258.38	2,179.53	78.85	28.643	
7,400.00	5,686.00	5,641.83	3,883.40	53.72	80.74	-36.21	1,479.55	3,257.70	2,246.16	2,170.41	75.75	29.654	
7,500.00	5,686.00	5,605.56	3,864.54	53.06	80.00	-35.35	1,466.35	3,229.66	2,237.76	2,164.83	72.93	30.684	
7,600.00	5,686.00	5,569.28	3,845.69	52.42	79.27	-34.48	1,453.15	3,201.62	2,233.22	2,162.78	70.44	31.702	
7,666.84	5,686.00	5,545.04	3,833.09	52.02	78.77	-33.90	1,444.33	3,182.88	2,232.35	2,163.36	68.99	32.356	
7,700.00	5,686.00	5,533.01	3,826.84	51.82	78.53	-33.61	1,439.95	3,173.58	2,232.57	2,164.23	68.34	32.670	
7,800.00	5,686.00	5,496.73	3,807.98	51.23	77.79	-32.74	1,426.75	3,145.54	2,235.80	2,169.16	66.64	33.550	
7,900.00	5,686.00	5,460.46	3,789.13	50.68	77.06	-31.88	1,413.56	3,117.50	2,242.90	2,177.52	65.38	34.304	
8,000.00	5,686.00	5,424.18	3,770.28	50.15	76.32	-31.01	1,400.36	3,089.46	2,253.84	2,189.26	64.58	34.902	
8,100.00	5,686.00	5,387.91	3,751.42	49.64	75.58	-30.15	1,387.16	3,061.42	2,268.56	2,204.33	64.22	35.324	
8,200.00	5,686.00	5,351.63	3,732.57	49.17	74.84	-29.28	1,373.96	3,033.38	2,286.98	2,222.68	64.29	35.570	
8,300.00	5,686.00	5,315.36	3,713.72	48.71	74.11	-28.42	1,360.76	3,005.34	2,309.01	2,244.25	64.76	35.654	
8,400.00	5,686.00	5,279.08	3,694.86	48.28	73.37	-27.56	1,347.56	2,977.31	2,334.57	2,268.99	65.58	35.601	
8,500.00	5,686.00	5,242.81	3,676.01	47.88	72.63	-26.71	1,334.36	2,949.27	2,363.52	2,296.84	66.68	35.447	
8,600.00	5,686.00	5,206.53	3,657.16	47.51	71.90	-25.86	1,321.16	2,921.23	2,395.75	2,327.74	68.01	35.229	
8,700.00	5,686.00	5,170.26	3,638.30	47.16	71.16	-25.01	1,307.97	2,893.19	2,431.13	2,361.63	69.50	34.981	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-11 - 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)			
8,800.00	5,686.00	5,133.99	3,619.45	46.84	70.42	-24.16	1,294.77	2,865.15	2,469.51	2,398.41	71.10	34.731	
8,900.00	5,686.00	5,097.71	3,600.60	46.56	69.69	-23.32	1,281.57	2,837.11	2,510.78	2,438.01	72.77	34.503	
9,000.00	5,686.00	5,061.44	3,581.74	46.31	68.95	-22.49	1,268.37	2,809.07	2,554.77	2,480.32	74.46	34.313	
9,100.00	5,686.00	5,025.16	3,562.89	46.12	68.22	-21.65	1,255.17	2,781.03	2,601.36	2,525.23	76.13	34.170	
9,200.00	5,686.00	4,988.89	3,544.04	45.98	67.48	-20.83	1,241.97	2,752.99	2,650.41	2,572.65	77.77	34.082	
9,300.00	5,686.00	4,952.61	3,525.18	45.93	66.74	-20.01	1,228.77	2,724.95	2,701.79	2,622.45	79.34	34.053	
9,400.00	5,686.00	4,916.34	3,506.33	46.00	66.01	-19.19	1,215.57	2,696.91	2,755.36	2,674.51	80.84	34.082	
9,500.00	5,686.00	4,880.06	3,487.48	46.23	65.27	-18.38	1,202.37	2,668.87	2,811.00	2,728.73	82.26	34.171	
9,600.00	5,686.00	4,843.79	3,468.62	46.66	64.54	-17.58	1,189.18	2,640.83	2,868.58	2,784.99	83.59	34.316	
9,700.00	5,686.00	4,807.51	3,449.77	47.29	63.80	-16.79	1,175.98	2,612.80	2,928.01	2,843.18	84.83	34.517	
9,800.00	5,686.00	4,771.24	3,430.92	48.12	63.07	-16.00	1,162.78	2,584.76	2,989.15	2,903.18	85.97	34.771	
9,900.00	5,686.00	4,734.96	3,412.06	49.08	62.33	-15.21	1,149.58	2,556.72	3,051.92	2,964.91	87.01	35.075	
10,000.00	5,686.00	4,698.69	3,393.21	50.16	61.60	-14.44	1,136.38	2,528.68	3,116.21	3,028.25	87.96	35.428	
10,100.00	5,686.00	4,662.41	3,374.36	51.32	60.86	-13.67	1,123.18	2,500.64	3,181.93	3,093.11	88.82	35.826	
10,200.00	5,686.00	4,626.14	3,355.50	52.53	60.13	-12.91	1,109.98	2,472.60	3,248.99	3,159.41	89.59	36.267	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-12 - 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)			
0.00	0.00	0.00	0.00	0.00	0.00	88.81	2.92	139.95	139.98				
100.00	100.00	100.00	100.00	0.14	0.14	88.81	2.92	139.95	139.98	139.69	0.29	488.100	
200.00	200.00	200.00	200.00	0.50	0.50	88.81	2.92	139.95	139.98	138.97	1.00	139.457	
300.00	300.00	300.00	300.00	0.86	0.86	88.81	2.92	139.95	139.98	138.26	1.72	81.350	
400.00	400.00	400.00	400.00	1.22	1.22	88.81	2.92	139.95	139.98	137.54	2.44	57.424	
500.00	500.00	500.00	500.00	1.58	1.58	88.81	2.92	139.95	139.98	136.82	3.15	44.373	
600.00	600.00	600.00	600.00	1.94	1.94	88.81	2.92	139.95	139.98	136.10	3.87	36.156 CC, ES	
700.00	700.00	693.54	693.51	2.29	2.27	88.47	3.80	142.06	142.26	137.70	4.56	31.198	
800.00	800.00	786.64	786.34	2.65	2.60	87.52	6.44	148.35	149.12	143.88	5.24	28.465	
900.00	900.00	878.85	877.86	3.01	2.94	86.12	10.77	158.69	160.59	154.68	5.91	27.190	
1,000.00	1,000.00	969.78	967.47	3.37	3.30	84.48	16.70	172.86	176.69	170.13	6.56	26.937	
1,100.00	1,100.00	1,059.04	1,054.63	3.73	3.68	82.78	24.13	190.58	197.39	190.19	7.19	27.435	
1,200.00	1,200.00	1,146.30	1,138.88	4.09	4.09	81.16	32.90	211.52	222.62	214.81	7.81	28.501	
1,300.00	1,300.00	1,231.28	1,219.85	4.45	4.54	79.68	42.86	235.30	252.25	243.84	8.40	30.013	
1,400.00	1,399.95	1,314.39	1,297.85	4.80	5.02	45.38	53.94	261.75	284.39	275.43	8.97	31.718	
1,500.00	1,499.63	1,400.00	1,376.81	5.16	5.57	44.37	66.71	292.24	317.14	307.58	9.56	33.176	
1,600.00	1,598.77	1,476.71	1,446.25	5.52	6.14	43.86	79.31	322.31	350.26	340.20	10.06	34.824	
1,700.00	1,697.08	1,555.91	1,516.50	5.90	6.78	43.69	93.43	356.02	383.74	373.13	10.60	36.185	
1,800.00	1,794.31	1,633.81	1,584.06	6.30	7.47	43.76	108.41	391.78	417.52	406.36	11.17	37.395	
1,900.00	1,890.18	1,710.41	1,648.90	6.73	8.20	44.02	124.16	429.39	451.60	439.85	11.75	38.430	
2,000.00	1,984.43	1,785.74	1,711.02	7.20	9.00	44.40	140.62	468.68	485.97	473.59	12.38	39.249	
2,100.00	2,076.81	1,859.82	1,770.42	7.73	9.85	44.86	157.72	509.49	520.65	507.57	13.07	39.825	
2,200.00	2,167.06	1,932.67	1,827.12	8.33	10.74	45.39	175.39	551.67	555.64	541.80	13.84	40.145	
2,300.00	2,254.93	2,000.00	1,877.95	8.99	11.60	45.86	192.46	592.41	591.00	576.37	14.63	40.403	
2,400.00	2,340.18	2,074.83	1,932.56	9.74	12.65	46.52	212.22	639.58	626.65	610.97	15.68	39.964	
2,500.00	2,422.59	2,144.22	1,981.38	10.56	13.67	47.11	231.27	685.06	662.67	645.89	16.78	39.481	
2,600.00	2,501.91	2,212.53	2,027.66	11.47	14.72	47.68	250.68	731.40	699.05	681.03	18.02	38.786	
2,700.00	2,577.95	2,279.81	2,071.45	12.47	15.82	48.25	270.41	778.51	735.78	716.37	19.41	37.901	
2,799.34	2,650.00	2,345.68	2,112.56	13.55	16.94	48.80	290.30	825.97	772.62	751.67	20.95	36.886	
2,800.00	2,650.47	2,346.12	2,112.83	13.55	16.95	48.81	290.43	826.29	772.86	751.91	20.96	36.879	
2,900.00	2,721.21	2,400.00	2,145.11	14.70	17.88	49.93	307.10	866.08	811.97	789.62	22.34	36.341	
3,000.00	2,791.95	2,475.52	2,188.28	15.87	19.27	51.31	331.04	923.22	854.08	829.82	24.27	35.197	
3,100.00	2,862.68	2,538.36	2,222.31	17.07	20.47	52.29	351.45	971.94	899.26	873.33	25.94	34.670	
3,200.00	2,933.42	2,600.00	2,253.99	18.29	21.66	53.10	371.88	1,020.72	947.16	919.57	27.59	34.326	
3,300.00	3,004.15	2,670.87	2,288.58	19.53	23.09	53.90	395.77	1,077.76	997.37	967.87	29.49	33.818	
3,400.00	3,074.89	2,755.99	2,329.82	20.77	24.82	54.76	424.55	1,146.44	1,048.12	1,016.35	31.77	32.989	
3,500.00	3,145.62	2,841.11	2,371.06	22.03	26.56	55.54	453.32	1,215.13	1,099.03	1,064.95	34.08	32.249	
3,600.00	3,216.36	2,926.24	2,412.30	23.30	28.31	56.25	482.09	1,283.81	1,150.08	1,113.67	36.41	31.584	
3,700.00	3,287.09	3,011.36	2,453.54	24.57	30.06	56.90	510.87	1,352.50	1,201.26	1,162.49	38.77	30.985	
3,800.00	3,357.83	3,096.49	2,494.78	25.85	31.83	57.50	539.64	1,421.18	1,252.54	1,211.40	41.14	30.444	
3,900.00	3,428.56	3,181.61	2,536.02	27.14	33.60	58.05	568.41	1,489.87	1,303.92	1,260.39	43.53	29.953	
4,000.00	3,499.30	3,266.73	2,577.26	28.43	35.37	58.57	597.18	1,558.55	1,355.39	1,309.45	45.94	29.506	
4,100.00	3,570.03	3,351.86	2,618.50	29.73	37.15	59.04	625.96	1,627.23	1,406.93	1,358.57	48.35	29.098	
4,200.00	3,640.77	3,436.98	2,659.73	31.03	38.94	59.49	654.73	1,695.92	1,458.53	1,407.75	50.78	28.724	
4,300.00	3,711.50	3,522.11	2,700.97	32.33	40.72	59.90	683.50	1,764.60	1,510.20	1,456.98	53.21	28.381	
4,400.00	3,782.24	3,607.23	2,742.21	33.64	42.51	60.28	712.27	1,833.29	1,561.92	1,506.26	55.65	28.065	
4,500.00	3,852.97	3,692.35	2,783.45	34.95	44.30	60.64	741.05	1,901.97	1,613.68	1,555.58	58.10	27.772	
4,600.00	3,923.71	3,777.48	2,824.69	36.26	46.09	60.98	769.82	1,970.66	1,665.50	1,604.94	60.56	27.501	
4,700.00	3,994.44	3,862.60	2,865.93	37.57	47.88	61.30	798.59	2,039.34	1,717.35	1,654.33	63.02	27.250	
4,800.00	4,065.18	3,947.72	2,907.17	38.88	49.68	61.60	827.36	2,108.03	1,769.24	1,703.75	65.49	27.015	
4,900.00	4,135.92	4,032.85	2,948.41	40.20	51.48	61.88	856.14	2,176.71	1,821.16	1,753.20	67.96	26.797	
5,000.00	4,206.65	4,117.97	2,989.65	41.52	53.28	62.15	884.91	2,245.40	1,873.12	1,802.68	70.44	26.592	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-12 - 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			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	
5,100.00	4,277.39	4,203.10	3,030.89	42.84	55.07	62.40	913.68	2,314.08	1,925.10	1,852.18	72.92	26.401		
5,200.00	4,348.12	4,288.22	3,072.12	44.16	56.87	62.64	942.46	2,382.76	1,977.11	1,901.71	75.40	26.221		
5,300.00	4,418.86	4,373.34	3,113.36	45.48	58.68	62.87	971.23	2,451.45	2,029.14	1,951.26	77.89	26.052		
5,400.00	4,489.59	4,458.47	3,154.60	46.80	60.48	63.09	1,000.00	2,520.13	2,081.20	2,000.82	80.38	25.893		
5,500.00	4,560.33	4,543.59	3,195.84	48.12	62.28	63.29	1,028.77	2,588.82	2,133.28	2,050.41	82.87	25.742		
5,600.00	4,631.06	4,628.72	3,237.08	49.45	64.09	63.49	1,057.55	2,657.50	2,185.37	2,100.01	85.37	25.600		
5,700.00	4,701.80	4,713.84	3,278.32	50.77	65.89	63.68	1,086.32	2,726.19	2,237.49	2,149.62	87.86	25.466		
5,800.00	4,772.53	4,798.96	3,319.56	52.10	67.69	63.85	1,115.09	2,794.87	2,289.62	2,199.25	90.36	25.339		
5,900.00	4,843.27	4,884.09	3,360.80	53.42	69.50	64.03	1,143.86	2,863.56	2,341.76	2,248.90	92.86	25.218		
5,954.41	4,881.76	4,930.40	3,383.24	54.14	70.48	64.11	1,159.52	2,900.93	2,370.14	2,275.92	94.22	25.154		
6,000.00	4,914.92	4,969.55	3,402.20	54.73	71.31	63.38	1,172.75	2,932.52	2,393.46	2,298.14	95.32	25.110		
6,050.00	4,953.22	5,013.08	3,423.29	55.35	72.24	61.50	1,187.46	2,967.63	2,417.86	2,321.45	96.41	25.079		
6,100.00	4,993.27	5,056.89	3,444.51	55.92	73.17	58.40	1,202.27	3,002.98	2,440.87	2,343.50	97.38	25.066 SF		
6,150.00	5,034.75	5,100.66	3,465.72	56.45	74.10	53.95	1,217.07	3,038.30	2,462.35	2,364.14	98.21	25.073		
6,200.00	5,077.34	5,144.05	3,486.74	56.91	75.02	48.15	1,231.73	3,073.32	2,482.18	2,383.29	98.89	25.100		
6,250.00	5,120.74	5,186.74	3,507.42	57.32	75.92	41.09	1,246.16	3,107.76	2,500.29	2,400.87	99.42	25.149		
6,300.00	5,164.59	5,228.40	3,527.60	57.67	76.81	33.09	1,260.25	3,141.37	2,516.61	2,416.83	99.78	25.222		
6,350.00	5,208.58	5,268.71	3,547.13	57.94	77.66	24.66	1,273.87	3,173.90	2,531.13	2,431.16	99.97	25.319		
6,400.00	5,252.36	5,307.37	3,565.86	58.15	78.49	16.33	1,286.94	3,205.09	2,543.82	2,443.84	99.98	25.443		
6,450.00	5,295.61	5,344.08	3,583.64	58.30	79.27	8.57	1,299.34	3,234.71	2,554.71	2,454.89	99.82	25.594		
6,500.00	5,337.99	5,378.56	3,600.35	58.38	80.00	1.64	1,311.00	3,262.53	2,563.82	2,464.35	99.47	25.774		
6,550.00	5,379.18	5,410.54	3,615.84	58.40	80.68	-4.37	1,321.81	3,288.34	2,571.21	2,472.25	98.96	25.982		
6,600.00	5,418.87	5,439.80	3,630.02	58.36	81.30	-9.52	1,331.70	3,311.95	2,576.91	2,478.64	98.28	26.221		
6,650.00	5,456.75	5,466.10	3,642.76	58.27	81.86	-13.90	1,340.59	3,333.17	2,581.01	2,483.58	97.43	26.490		
6,700.00	5,492.54	5,489.24	3,653.97	58.14	82.35	-17.63	1,348.41	3,351.84	2,583.56	2,487.13	96.44	26.789		
6,750.00	5,525.96	5,509.05	3,663.56	57.96	82.77	-20.82	1,355.11	3,367.82	2,584.65	2,489.34	95.31	27.119		
6,800.00	5,556.77	5,525.37	3,671.47	57.74	83.12	-23.55	1,360.62	3,380.99	2,584.34	2,490.29	94.05	27.478		
6,850.00	5,584.72	5,538.09	3,677.63	57.49	83.39	-25.90	1,364.92	3,391.25	2,582.70	2,490.01	92.68	27.866		
6,900.00	5,609.61	5,547.10	3,682.00	57.20	83.58	-27.92	1,367.97	3,398.53	2,579.79	2,488.56	91.23	28.279		
6,950.00	5,631.24	5,552.34	3,684.54	56.90	83.69	-29.66	1,369.74	3,402.75	2,575.68	2,485.98	89.70	28.715		
7,000.00	5,649.44	5,553.77	3,685.23	56.57	83.72	-31.16	1,370.22	3,403.90	2,570.41	2,482.29	88.12	29.171		
7,050.00	5,664.09	5,551.37	3,684.07	56.22	83.67	-32.43	1,369.41	3,401.97	2,564.01	2,477.51	86.50	29.641		
7,100.00	5,675.07	5,545.16	3,681.06	55.87	83.54	-33.51	1,367.31	3,396.96	2,556.53	2,471.66	84.88	30.120		
7,150.00	5,682.29	5,535.20	3,676.23	55.50	83.33	-34.41	1,363.95	3,388.92	2,547.98	2,464.72	83.26	30.603		
7,200.00	5,685.71	5,521.56	3,669.62	55.14	83.04	-35.15	1,359.33	3,377.91	2,538.37	2,456.71	81.66	31.083		
7,219.51	5,686.00	5,515.25	3,666.57	54.99	82.90	-35.39	1,357.20	3,372.83	2,534.34	2,453.28	81.05	31.267		
7,300.00	5,686.00	5,488.14	3,653.44	54.42	82.33	-34.81	1,348.04	3,350.95	2,518.44	2,439.84	78.60	32.041		
7,400.00	5,686.00	5,454.46	3,637.12	53.72	81.61	-34.07	1,336.65	3,323.77	2,501.74	2,426.01	75.73	33.036		
7,500.00	5,686.00	5,420.77	3,620.80	53.06	80.89	-33.34	1,325.27	3,296.59	2,488.50	2,415.42	73.09	34.049		
7,600.00	5,686.00	5,387.08	3,604.48	52.42	80.18	-32.60	1,313.88	3,269.41	2,478.77	2,408.06	70.71	35.055		
7,700.00	5,686.00	5,353.40	3,588.16	51.82	79.46	-31.87	1,302.50	3,242.23	2,472.58	2,403.94	68.64	36.023		
7,800.00	5,686.00	5,319.71	3,571.84	51.23	78.75	-31.13	1,291.11	3,215.05	2,469.98	2,403.07	66.91	36.918		
7,822.68	5,686.00	5,312.08	3,568.14	51.11	78.59	-30.97	1,288.53	3,208.89	2,469.88	2,403.32	66.56	37.106		
7,900.00	5,686.00	5,286.03	3,555.52	50.68	78.03	-30.40	1,279.72	3,187.87	2,470.96	2,405.42	65.53	37.705		
8,000.00	5,686.00	5,252.34	3,539.20	50.15	77.32	-29.66	1,268.34	3,160.69	2,475.52	2,410.98	64.55	38.353		
8,100.00	5,686.00	5,218.66	3,522.88	49.64	76.60	-28.93	1,256.95	3,133.51	2,483.65	2,419.70	63.95	38.837		
8,200.00	5,686.00	5,184.97	3,506.56	49.17	75.89	-28.19	1,245.57	3,106.33	2,495.31	2,431.56	63.74	39.146		
8,300.00	5,686.00	5,151.29	3,490.25	48.71	75.17	-27.46	1,234.18	3,079.15	2,510.44	2,446.53	63.91	39.279		
8,400.00	5,686.00	5,117.60	3,473.93	48.28	74.46	-26.73	1,222.79	3,051.97	2,528.99	2,464.56	64.43	39.252		
8,500.00	5,686.00	5,083.92	3,457.61	47.88	73.74	-26.00	1,211.41	3,024.79	2,550.89	2,485.63	65.26	39.091		
8,600.00	5,686.00	5,050.23	3,441.29	47.51	73.03	-25.27	1,200.02	2,997.62	2,576.04	2,509.70	66.35	38.828		
8,700.00	5,686.00	5,016.55	3,424.97	47.16	72.31	-24.54	1,188.64	2,970.44	2,604.36	2,536.71	67.65	38.499		

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-12 - 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	
8,800.00	5,686.00	4,982.86	3,408.65	46.84	71.60	-23.81	1,177.25	2,943.26	2,635.74	2,566.63	69.11	38.138	
8,900.00	5,686.00	4,949.18	3,392.33	46.56	70.88	-23.09	1,165.87	2,916.08	2,670.07	2,599.38	70.69	37.773	
9,000.00	5,686.00	4,915.49	3,376.01	46.31	70.17	-22.37	1,154.48	2,888.90	2,707.24	2,634.91	72.33	37.427	
9,100.00	5,686.00	4,881.81	3,359.69	46.12	69.45	-21.65	1,143.09	2,861.72	2,747.14	2,673.12	74.01	37.117	
9,200.00	5,686.00	4,848.12	3,343.37	45.98	68.74	-20.94	1,131.71	2,834.54	2,789.64	2,713.95	75.69	36.854	
9,300.00	5,686.00	4,814.44	3,327.05	45.93	68.02	-20.22	1,120.32	2,807.36	2,834.64	2,757.29	77.35	36.647	
9,400.00	5,686.00	4,780.75	3,310.74	46.00	67.31	-19.52	1,108.94	2,780.18	2,882.01	2,803.05	78.96	36.500	
9,500.00	5,686.00	4,747.07	3,294.42	46.23	66.59	-18.81	1,097.55	2,753.00	2,931.64	2,851.13	80.51	36.414	
9,600.00	5,686.00	4,713.38	3,278.10	46.66	65.88	-18.11	1,086.16	2,725.82	2,983.42	2,901.43	81.99	36.389	
9,700.00	5,686.00	4,679.70	3,261.78	47.29	65.17	-17.41	1,074.78	2,698.64	3,037.23	2,953.85	83.38	36.424	
9,800.00	5,686.00	4,646.01	3,245.46	48.12	64.45	-16.72	1,063.39	2,671.46	3,092.98	3,008.28	84.70	36.519	
9,900.00	5,686.00	4,612.33	3,229.14	49.08	63.74	-16.03	1,052.01	2,644.28	3,150.55	3,064.63	85.92	36.669	
10,000.00	5,686.00	4,578.64	3,212.82	50.16	63.02	-15.35	1,040.62	2,617.10	3,209.85	3,122.80	87.05	36.873	
10,100.00	5,686.00	4,544.96	3,196.50	51.32	62.31	-14.67	1,029.23	2,589.92	3,270.79	3,182.70	88.09	37.129	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-13 - 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)			
0.00	0.00	0.00	0.00	0.00	0.00	88.83	3.28	159.90	159.93				
100.00	100.00	100.00	100.00	0.14	0.14	88.83	3.28	159.90	159.93	159.65	0.29	557.687	
200.00	200.00	200.00	200.00	0.50	0.50	88.83	3.28	159.90	159.93	158.93	1.00	159.339	
300.00	300.00	300.00	300.00	0.86	0.86	88.83	3.28	159.90	159.93	158.21	1.72	92.948	
400.00	400.00	400.00	400.00	1.22	1.22	88.83	3.28	159.90	159.93	157.49	2.44	65.610	
500.00	500.00	500.00	500.00	1.58	1.58	88.83	3.28	159.90	159.93	156.78	3.15	50.699 CC, ES	
600.00	600.00	592.61	592.57	1.94	1.91	88.56	4.07	162.00	162.22	158.38	3.84	42.235	
700.00	700.00	684.79	684.50	2.29	2.24	87.81	6.43	168.26	169.09	164.57	4.52	37.411	
800.00	800.00	776.11	775.15	2.65	2.58	86.70	10.30	178.54	180.56	175.37	5.19	34.794	
900.00	900.00	866.17	863.94	3.01	2.93	85.37	15.61	192.65	196.62	190.77	5.85	33.627	
1,000.00	1,000.00	954.62	950.34	3.37	3.32	83.96	22.26	210.30	217.22	210.74	6.49	33.477	
1,100.00	1,100.00	1,041.13	1,033.92	3.73	3.73	82.58	30.11	231.16	242.30	235.19	7.11	34.065	
1,200.00	1,200.00	1,125.42	1,114.30	4.09	4.18	81.29	39.04	254.88	271.72	264.00	7.72	35.189	
1,300.00	1,300.00	1,207.25	1,191.20	4.45	4.66	80.13	48.90	281.06	305.32	297.03	8.29	36.812	
1,400.00	1,399.95	1,287.13	1,265.03	4.80	5.19	45.96	59.63	309.56	341.26	332.41	8.85	38.560	
1,500.00	1,499.63	1,365.67	1,336.33	5.16	5.78	44.96	71.24	340.38	377.65	368.26	9.39	40.215	
1,600.00	1,598.77	1,442.87	1,405.03	5.52	6.40	44.38	83.64	373.32	414.34	404.42	9.93	41.741	
1,700.00	1,697.08	1,518.73	1,471.11	5.90	7.08	44.11	96.77	408.20	451.26	440.80	10.47	43.119	
1,800.00	1,794.31	1,600.00	1,540.18	6.30	7.86	44.13	111.85	448.25	488.43	477.32	11.10	43.986	
1,900.00	1,890.18	1,666.49	1,595.30	6.73	8.58	44.15	124.95	483.04	525.64	514.04	11.60	45.315	
2,000.00	1,984.43	1,738.41	1,653.44	7.20	9.40	44.37	139.88	522.68	563.09	550.87	12.22	46.075	
2,100.00	2,076.81	1,800.00	1,701.91	7.73	10.13	44.52	153.26	558.22	600.80	588.03	12.76	47.075	
2,200.00	2,167.06	1,878.50	1,761.88	8.33	11.16	45.03	171.10	605.61	638.51	624.86	13.65	46.780	
2,300.00	2,254.93	1,946.72	1,812.28	8.99	12.11	45.42	187.31	648.64	676.50	662.01	14.49	46.682	
2,400.00	2,340.18	2,013.77	1,860.18	9.74	13.08	45.84	203.84	692.55	714.68	699.25	15.44	46.301	
2,500.00	2,422.59	2,079.70	1,905.64	10.56	14.10	46.27	220.66	737.23	753.08	736.57	16.50	45.637	
2,600.00	2,501.91	2,144.54	1,948.72	11.47	15.15	46.70	237.74	782.58	791.67	773.98	17.70	44.731	
2,700.00	2,577.95	2,200.00	1,984.24	12.47	16.07	46.94	252.75	822.43	830.54	811.67	18.87	44.016	
2,799.34	2,650.00	2,270.76	2,027.74	13.55	17.31	47.53	272.41	874.66	869.23	848.73	20.50	42.405	
2,800.00	2,650.47	2,271.17	2,027.99	13.55	17.32	47.54	272.53	874.97	869.49	848.98	20.51	42.397	
2,900.00	2,721.21	2,332.97	2,064.26	14.70	18.44	48.81	290.16	921.79	910.29	888.21	22.08	41.223	
3,000.00	2,791.95	2,400.00	2,101.74	15.87	19.70	50.03	309.74	973.79	954.29	930.47	23.82	40.068	
3,100.00	2,862.68	2,453.04	2,130.01	17.07	20.74	50.88	325.55	1,015.79	1,001.12	975.83	25.29	39.579	
3,200.00	2,933.42	2,511.14	2,159.53	18.29	21.89	51.71	343.18	1,062.62	1,050.65	1,023.76	26.89	39.072	
3,300.00	3,004.15	2,568.05	2,186.96	19.53	23.05	52.42	360.75	1,109.29	1,102.64	1,074.17	28.47	38.728	
3,400.00	3,074.89	2,651.24	2,225.98	20.77	24.78	53.34	386.64	1,178.04	1,155.90	1,125.20	30.70	37.651	
3,500.00	3,145.62	2,734.43	2,265.00	22.03	26.52	54.18	412.53	1,246.80	1,209.36	1,176.40	32.96	36.691	
3,600.00	3,216.36	2,817.61	2,304.02	23.30	28.28	54.95	438.42	1,315.55	1,262.99	1,227.75	35.25	35.832	
3,700.00	3,287.09	2,900.80	2,343.04	24.57	30.03	55.66	464.31	1,384.31	1,316.78	1,279.22	37.56	35.060	
3,800.00	3,357.83	2,983.99	2,382.06	25.85	31.80	56.32	490.20	1,453.06	1,370.71	1,330.82	39.89	34.364	
3,900.00	3,428.56	3,067.18	2,421.08	27.14	33.57	56.92	516.09	1,521.82	1,424.75	1,382.52	42.24	33.734	
4,000.00	3,499.30	3,150.36	2,460.11	28.43	35.35	57.49	541.97	1,590.57	1,478.90	1,434.31	44.60	33.162	
4,100.00	3,570.03	3,233.55	2,499.13	29.73	37.12	58.01	567.86	1,659.33	1,533.15	1,486.18	46.97	32.640	
4,200.00	3,640.77	3,316.74	2,538.15	31.03	38.91	58.50	593.75	1,728.08	1,587.49	1,538.13	49.36	32.163	
4,300.00	3,711.50	3,399.93	2,577.17	32.33	40.69	58.96	619.64	1,796.84	1,641.90	1,590.15	51.75	31.726	
4,400.00	3,782.24	3,483.11	2,616.19	33.64	42.48	59.39	645.53	1,865.59	1,696.38	1,642.23	54.16	31.323	
4,500.00	3,852.97	3,566.30	2,655.21	34.95	44.27	59.79	671.42	1,934.35	1,750.93	1,694.36	56.57	30.951	
4,600.00	3,923.71	3,649.49	2,694.24	36.26	46.06	60.17	697.30	2,003.10	1,805.54	1,746.55	58.99	30.607	
4,700.00	3,994.44	3,732.68	2,733.26	37.57	47.86	60.53	723.19	2,071.86	1,860.19	1,798.78	61.42	30.288	
4,800.00	4,065.18	3,815.86	2,772.28	38.88	49.65	60.86	749.08	2,140.61	1,914.90	1,851.05	63.85	29.992	
4,900.00	4,135.92	3,899.05	2,811.30	40.20	51.45	61.18	774.97	2,209.37	1,969.65	1,903.36	66.28	29.715	
5,000.00	4,206.65	3,982.24	2,850.32	41.52	53.24	61.48	800.86	2,278.12	2,024.44	1,955.71	68.73	29.457	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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:		SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-13 - 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		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	4,277.39	4,065.43	2,889.34	42.84	55.04	61.77	826.75	2,346.88	2,079.27	2,008.10	71.17	29.215				
5,200.00	4,348.12	4,148.61	2,928.36	44.16	56.84	62.04	852.64	2,415.63	2,134.13	2,060.51	73.62	28.989				
5,300.00	4,418.86	4,231.80	2,967.39	45.48	58.64	62.29	878.52	2,484.39	2,189.02	2,112.95	76.07	28.776				
5,400.00	4,489.59	4,314.99	3,006.41	46.80	60.45	62.54	904.41	2,553.14	2,243.95	2,165.42	78.53	28.575				
5,500.00	4,560.33	4,398.18	3,045.43	48.12	62.25	62.77	930.30	2,621.90	2,298.90	2,217.91	80.99	28.386				
5,600.00	4,631.06	4,481.36	3,084.45	49.45	64.05	62.99	956.19	2,690.65	2,353.88	2,270.43	83.45	28.207				
5,700.00	4,701.80	4,564.55	3,123.47	50.77	65.85	63.21	982.08	2,759.41	2,408.88	2,322.96	85.91	28.038				
5,800.00	4,772.53	4,647.74	3,162.49	52.10	67.66	63.41	1,007.97	2,828.16	2,463.90	2,375.52	88.38	27.879				
5,900.00	4,843.27	4,730.93	3,201.52	53.42	69.46	63.60	1,033.86	2,896.92	2,518.94	2,428.10	90.85	27.727				
5,954.41	4,881.76	4,776.19	3,222.75	54.14	70.45	63.71	1,047.94	2,934.33	2,548.90	2,456.71	92.19	27.648				
6,000.00	4,914.92	4,814.49	3,240.71	54.73	71.28	63.19	1,059.86	2,965.99	2,573.56	2,480.29	93.28	27.591				
6,050.00	4,953.22	4,857.17	3,260.73	55.35	72.20	61.56	1,073.14	3,001.26	2,599.47	2,505.11	94.37	27.547				
6,100.00	4,993.27	4,900.24	3,280.93	55.92	73.14	58.68	1,086.55	3,036.85	2,624.01	2,528.67	95.34	27.523				
6,150.00	5,034.75	4,943.36	3,301.16	56.45	74.08	54.45	1,099.97	3,072.50	2,647.02	2,550.83	96.19	27.519 SF				
6,200.00	5,077.34	4,986.22	3,321.27	56.91	75.01	48.84	1,113.30	3,107.92	2,668.37	2,571.47	96.90	27.538				
6,250.00	5,120.74	5,028.48	3,341.09	57.32	75.92	41.97	1,126.45	3,142.85	2,687.96	2,590.50	97.46	27.579				
6,300.00	5,164.59	5,069.82	3,360.48	57.67	76.82	34.15	1,139.32	3,177.02	2,705.72	2,607.85	97.87	27.645				
6,350.00	5,208.58	5,109.93	3,379.30	57.94	77.69	25.87	1,151.80	3,210.17	2,721.60	2,623.48	98.12	27.737				
6,400.00	5,252.36	5,148.51	3,397.39	58.15	78.53	17.69	1,163.81	3,242.05	2,735.57	2,637.37	98.21	27.855				
6,450.00	5,295.61	5,185.25	3,414.63	58.30	79.33	10.06	1,175.24	3,272.42	2,747.63	2,649.51	98.12	28.002				
6,500.00	5,337.99	5,219.89	3,430.88	58.38	80.08	3.25	1,186.02	3,301.05	2,757.79	2,659.91	97.87	28.177				
6,550.00	5,379.18	5,252.15	3,446.01	58.40	80.78	-2.66	1,196.06	3,327.71	2,766.07	2,668.61	97.46	28.382				
6,600.00	5,418.87	5,281.79	3,459.91	58.36	81.43	-7.72	1,205.29	3,352.21	2,772.52	2,675.64	96.89	28.616				
6,650.00	5,456.75	5,308.59	3,472.48	58.27	82.01	-12.03	1,213.63	3,374.36	2,777.19	2,681.03	96.16	28.880				
6,700.00	5,492.54	5,332.34	3,483.62	58.14	82.53	-15.70	1,221.02	3,393.99	2,780.14	2,684.85	95.29	29.174				
6,750.00	5,525.96	5,352.86	3,493.25	57.96	82.97	-18.86	1,227.40	3,410.95	2,781.43	2,687.14	94.29	29.498				
6,800.00	5,556.77	5,369.99	3,501.29	57.74	83.34	-21.58	1,232.74	3,425.11	2,781.13	2,687.96	93.17	29.850				
6,850.00	5,584.72	5,383.61	3,507.68	57.49	83.64	-23.94	1,236.97	3,436.37	2,779.30	2,687.35	91.94	30.229				
6,900.00	5,609.61	5,393.61	3,512.37	57.20	83.86	-25.99	1,240.09	3,444.63	2,776.00	2,685.38	90.62	30.633				
6,950.00	5,631.24	5,399.91	3,515.32	56.90	83.99	-27.79	1,242.05	3,449.84	2,771.29	2,682.07	89.23	31.058				
7,000.00	5,649.44	5,402.47	3,516.52	56.57	84.05	-29.37	1,242.84	3,451.95	2,765.24	2,677.46	87.78	31.502				
7,050.00	5,664.09	5,401.27	3,515.96	56.22	84.02	-30.75	1,242.47	3,450.96	2,757.88	2,671.59	86.29	31.960				
7,100.00	5,675.07	5,396.31	3,513.63	55.87	83.92	-31.96	1,240.93	3,446.86	2,749.26	2,664.47	84.79	32.426				
7,150.00	5,682.29	5,387.63	3,509.56	55.50	83.73	-33.01	1,238.23	3,439.69	2,739.41	2,656.13	83.28	32.895				
7,200.00	5,685.71	5,375.31	3,503.78	55.14	83.46	-33.91	1,234.39	3,429.51	2,728.36	2,646.57	81.78	33.361				
7,219.51	5,686.00	5,369.53	3,501.07	54.99	83.33	-34.23	1,232.59	3,424.73	2,723.72	2,642.52	81.21	33.540				
7,300.00	5,686.00	5,344.58	3,489.36	54.42	82.79	-33.72	1,224.83	3,404.10	2,705.25	2,626.36	78.89	34.291				
7,400.00	5,686.00	5,313.57	3,474.82	53.72	82.12	-33.08	1,215.18	3,378.48	2,685.16	2,609.00	76.16	35.257				
7,500.00	5,686.00	5,282.57	3,460.28	53.06	81.44	-32.44	1,205.53	3,352.86	2,668.31	2,594.69	73.62	36.244				
7,600.00	5,686.00	5,251.57	3,445.74	52.42	80.77	-31.80	1,195.88	3,327.23	2,654.76	2,583.45	71.31	37.228				
7,700.00	5,686.00	5,220.57	3,431.20	51.82	80.10	-31.16	1,186.23	3,301.61	2,644.56	2,575.30	69.26	38.184				
7,800.00	5,686.00	5,189.57	3,416.65	51.23	79.42	-30.52	1,176.59	3,275.99	2,637.74	2,570.25	67.50	39.080				
7,900.00	5,686.00	5,158.56	3,402.11	50.68	78.75	-29.88	1,166.94	3,250.36	2,634.35	2,568.30	66.05	39.886				
7,949.04	5,686.00	5,143.36	3,394.98	50.42	78.42	-29.56	1,162.21	3,237.80	2,633.94	2,568.47	65.46	40.236				
8,000.00	5,686.00	5,127.56	3,387.57	50.15	78.08	-29.24	1,157.29	3,224.74	2,634.38	2,569.44	64.94	40.569				
8,100.00	5,686.00	5,096.56	3,373.03	49.64	77.40	-28.60	1,147.64	3,199.12	2,637.84	2,573.67	64.18	41.103				
8,200.00	5,686.00	5,065.56	3,358.48	49.17	76.73	-27.95	1,137.99	3,173.49	2,644.72	2,580.94	63.78	41.469				
8,300.00	5,686.00	5,034.56	3,343.94	48.71	76.06	-27.31	1,128.35	3,147.87	2,654.99	2,591.26	63.73	41.660				
8,400.00	5,686.00	5,003.55	3,329.40	48.28	75.38	-26.67	1,118.70	3,122.25	2,668.60	2,604.58	64.02	41.681				
8,500.00	5,686.00	4,972.55	3,314.86	47.88	74.71	-26.04	1,109.05	3,096.62	2,685.52	2,620.88	64.63	41.549				
8,600.00	5,686.00	4,941.55	3,300.31	47.51	74.04	-25.40	1,099.40	3,071.00	2,705.67	2,640.14	65.53	41.290				
8,700.00	5,686.00	4,910.55	3,285.77	47.16	73.36	-24.76	1,089.75	3,045.38	2,728.98	2,662.32	66.66	40.937				

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-13 - 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)			
8,800.00	5,686.00	4,879.54	3,271.23	46.84	72.69	-24.12	1,080.11	3,019.75	2,755.39	2,687.39	67.99	40.524	
8,900.00	5,686.00	4,848.54	3,256.69	46.56	72.02	-23.49	1,070.46	2,994.13	2,784.78	2,715.31	69.48	40.083	
9,000.00	5,686.00	4,817.54	3,242.14	46.31	71.34	-22.86	1,060.81	2,968.51	2,817.09	2,746.02	71.07	39.640	
9,100.00	5,686.00	4,786.54	3,227.60	46.12	70.67	-22.22	1,051.16	2,942.88	2,852.19	2,779.47	72.73	39.218	
9,200.00	5,686.00	4,755.54	3,213.06	45.98	70.00	-21.59	1,041.51	2,917.26	2,890.00	2,815.58	74.42	38.834	
9,300.00	5,686.00	4,724.53	3,198.52	45.93	69.33	-20.97	1,031.87	2,891.64	2,930.41	2,854.29	76.12	38.498	
9,400.00	5,686.00	4,693.53	3,183.97	46.00	68.65	-20.34	1,022.22	2,866.01	2,973.31	2,895.51	77.80	38.218	
9,500.00	5,686.00	4,662.53	3,169.43	46.23	67.98	-19.72	1,012.57	2,840.39	3,018.59	2,939.15	79.44	37.998	
9,600.00	5,686.00	4,631.53	3,154.89	46.66	67.31	-19.10	1,002.92	2,814.77	3,066.16	2,985.13	81.03	37.841	
9,700.00	5,686.00	4,600.53	3,140.35	47.29	66.63	-18.48	993.27	2,789.14	3,115.90	3,033.35	82.55	37.746	
9,800.00	5,686.00	4,569.52	3,125.80	48.12	65.96	-17.86	983.63	2,763.52	3,167.71	3,083.72	84.00	37.713	
9,900.00	5,686.00	4,538.52	3,111.26	49.08	65.29	-17.25	973.98	2,737.90	3,221.50	3,136.13	85.36	37.739	
10,000.00	5,686.00	4,507.52	3,096.72	50.16	64.62	-16.64	964.33	2,712.27	3,277.16	3,190.51	86.65	37.823	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-14 - 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)			
0.00	0.00	0.00	0.00	0.00	0.00	88.84	3.63	179.85	179.89				
100.00	100.00	100.00	100.00	0.14	0.14	88.84	3.63	179.85	179.89	179.60	0.29	627.273	
200.00	200.00	200.00	200.00	0.50	0.50	88.84	3.63	179.85	179.89	178.88	1.00	179.221	
300.00	300.00	300.00	300.00	0.86	0.86	88.84	3.63	179.85	179.89	178.17	1.72	104.546	
400.00	400.00	400.00	400.00	1.22	1.22	88.84	3.63	179.85	179.89	177.45	2.44	73.797 CC, ES	
500.00	500.00	491.70	491.66	1.58	1.54	88.63	4.34	181.93	182.18	179.05	3.12	58.344	
600.00	600.00	582.97	582.69	1.94	1.87	88.03	6.46	188.14	189.04	185.24	3.80	49.716	
700.00	700.00	673.42	672.48	2.29	2.21	87.13	9.95	198.34	200.48	196.01	4.47	44.803	
800.00	800.00	762.65	760.47	2.65	2.57	86.03	14.74	212.33	216.48	211.34	5.14	42.142	
900.00	900.00	850.30	846.14	3.01	2.96	84.85	20.73	229.85	236.98	231.20	5.79	40.963	
1,000.00	1,000.00	936.07	929.05	3.37	3.38	83.67	27.81	250.57	261.90	255.48	6.42	40.810	
1,100.00	1,100.00	1,019.67	1,008.85	3.73	3.83	82.54	35.88	274.14	291.11	284.08	7.03	41.393	
1,200.00	1,200.00	1,100.00	1,084.43	4.09	4.31	81.53	44.68	299.88	324.47	316.85	7.61	42.613	
1,300.00	1,300.00	1,179.52	1,158.06	4.45	4.85	80.59	54.40	328.30	361.78	353.59	8.19	44.187	
1,400.00	1,399.95	1,256.16	1,227.77	4.80	5.43	46.48	64.70	358.41	401.25	392.50	8.74	45.888	
1,500.00	1,499.63	1,331.46	1,294.97	5.16	6.05	45.46	75.69	390.54	441.04	431.76	9.28	47.544	
1,600.00	1,598.77	1,400.00	1,354.93	5.52	6.65	44.77	86.43	421.96	481.05	471.31	9.74	49.374	
1,700.00	1,697.08	1,478.02	1,421.69	5.90	7.42	44.42	99.50	460.16	521.10	510.76	10.34	50.402	
1,800.00	1,794.31	1,549.31	1,481.19	6.30	8.18	44.23	112.20	497.30	561.25	550.36	10.89	51.550	
1,900.00	1,890.18	1,619.30	1,538.14	6.73	8.98	44.19	125.36	535.78	601.45	589.99	11.46	52.483	
2,000.00	1,984.43	1,700.00	1,601.91	7.20	9.96	44.44	141.36	582.57	641.83	629.60	12.23	52.489	
2,100.00	2,076.81	1,755.43	1,644.48	7.73	10.69	44.41	152.85	616.16	681.94	669.20	12.74	53.529	
2,200.00	2,167.06	1,821.64	1,693.95	8.33	11.60	44.61	167.09	657.80	722.25	708.78	13.47	53.603	
2,300.00	2,254.93	1,900.00	1,750.47	8.99	12.74	45.10	184.65	709.14	762.76	748.27	14.49	52.645	
2,400.00	2,340.18	1,950.53	1,785.73	9.74	13.53	45.13	196.36	743.39	803.00	787.78	15.21	52.782	
2,500.00	2,422.59	2,000.00	1,819.30	10.56	14.30	45.15	208.12	777.76	843.59	827.57	16.02	52.655	
2,600.00	2,501.91	2,074.96	1,868.36	11.47	15.56	45.71	226.46	831.39	883.95	866.55	17.39	50.817	
2,700.00	2,577.95	2,135.62	1,906.40	12.47	16.61	46.00	241.75	876.09	924.51	905.83	18.68	49.498	
2,799.34	2,650.00	2,200.00	1,945.11	13.55	17.76	46.40	258.40	924.76	964.87	944.69	20.18	47.821	
2,800.00	2,650.47	2,200.00	1,945.11	13.55	17.76	46.40	258.40	924.76	965.13	944.95	20.18	47.828	
2,900.00	2,721.21	2,253.96	1,976.20	14.70	18.78	47.49	272.67	966.48	1,007.40	985.80	21.61	46.626	
3,000.00	2,791.95	2,300.00	2,001.74	15.87	19.65	48.34	285.06	1,002.73	1,052.86	1,029.96	22.90	45.969	
3,100.00	2,862.68	2,367.85	2,037.68	17.07	21.00	49.48	303.69	1,057.18	1,100.97	1,076.27	24.70	44.581	
3,200.00	2,933.42	2,422.96	2,065.35	18.29	22.12	50.30	319.11	1,102.27	1,151.78	1,125.54	26.24	43.895	
3,300.00	3,004.15	2,476.76	2,091.02	19.53	23.24	51.02	334.41	1,147.01	1,205.01	1,177.24	27.77	43.396	
3,400.00	3,074.89	2,530.47	2,115.31	20.77	24.37	51.65	349.91	1,192.33	1,260.47	1,231.18	29.29	43.028	
3,500.00	3,145.62	2,609.32	2,149.99	22.03	26.07	52.49	372.83	1,259.34	1,317.15	1,285.71	31.43	41.905	
3,600.00	3,216.36	2,690.10	2,185.50	23.30	27.82	53.28	396.30	1,327.98	1,374.02	1,340.37	33.64	40.840	
3,700.00	3,287.09	2,770.87	2,221.02	24.57	29.58	54.01	419.78	1,396.63	1,431.05	1,395.17	35.88	39.885	
3,800.00	3,357.83	2,851.64	2,256.54	25.85	31.35	54.69	443.26	1,465.27	1,488.24	1,450.10	38.14	39.024	
3,900.00	3,428.56	2,932.42	2,292.06	27.14	33.12	55.31	466.73	1,533.91	1,545.56	1,505.15	40.41	38.246	
4,000.00	3,499.30	3,013.19	2,327.57	28.43	34.89	55.90	490.21	1,602.55	1,603.00	1,560.30	42.70	37.540	
4,100.00	3,570.03	3,093.96	2,363.09	29.73	36.67	56.44	513.68	1,671.19	1,660.54	1,615.54	45.01	36.896	
4,200.00	3,640.77	3,174.74	2,398.61	31.03	38.46	56.95	537.16	1,739.84	1,718.18	1,670.86	47.32	36.308	
4,300.00	3,711.50	3,255.51	2,434.13	32.33	40.24	57.42	560.64	1,808.48	1,775.91	1,726.26	49.65	35.769	
4,400.00	3,782.24	3,336.28	2,469.65	33.64	42.03	57.87	584.11	1,877.12	1,833.71	1,781.73	51.99	35.274	
4,500.00	3,852.97	3,417.06	2,505.16	34.95	43.82	58.29	607.59	1,945.76	1,891.59	1,837.26	54.33	34.817	
4,600.00	3,923.71	3,497.83	2,540.68	36.26	45.62	58.68	631.07	2,014.40	1,949.53	1,892.85	56.68	34.394	
4,700.00	3,994.44	3,578.60	2,576.20	37.57	47.41	59.06	654.54	2,083.05	2,007.53	1,948.49	59.04	34.002	
4,800.00	4,065.18	3,659.38	2,611.72	38.88	49.21	59.41	678.02	2,151.69	2,065.58	2,004.18	61.41	33.638	
4,900.00	4,135.92	3,740.15	2,647.23	40.20	51.01	59.74	701.50	2,220.33	2,123.69	2,059.91	63.78	33.298	
5,000.00	4,206.65	3,820.93	2,682.75	41.52	52.81	60.06	724.97	2,288.97	2,181.83	2,115.68	66.15	32.981	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-14 - 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	4,277.39	3,901.70	2,718.27	42.84	54.61	60.36	748.45	2,357.61	2,240.03	2,171.49	68.53	32.685		
5,200.00	4,348.12	3,982.47	2,753.79	44.16	56.41	60.64	771.92	2,426.25	2,298.26	2,227.34	70.92	32.407		
5,300.00	4,418.86	4,063.25	2,789.30	45.48	58.21	60.91	795.40	2,494.90	2,356.52	2,283.21	73.31	32.146		
5,400.00	4,489.59	4,144.02	2,824.82	46.80	60.02	61.17	818.88	2,563.54	2,414.82	2,339.12	75.70	31.900		
5,500.00	4,560.33	4,224.79	2,860.34	48.12	61.82	61.42	842.35	2,632.18	2,473.15	2,395.06	78.10	31.668		
5,600.00	4,631.06	4,305.57	2,895.86	49.45	63.63	61.65	865.83	2,700.82	2,531.51	2,451.02	80.49	31.450		
5,700.00	4,701.80	4,386.34	2,931.37	50.77	65.43	61.87	889.31	2,769.46	2,589.90	2,507.00	82.89	31.243		
5,800.00	4,772.53	4,467.11	2,966.89	52.10	67.24	62.09	912.78	2,838.11	2,648.31	2,563.01	85.30	31.048		
5,900.00	4,843.27	4,547.89	3,002.41	53.42	69.05	62.29	936.26	2,906.75	2,706.74	2,619.04	87.70	30.862		
5,954.41	4,881.76	4,591.84	3,021.74	54.14	70.03	62.40	949.03	2,944.10	2,738.55	2,649.53	89.01	30.765		
6,000.00	4,914.92	4,629.05	3,038.10	54.73	70.86	62.18	959.85	2,975.72	2,764.80	2,674.73	90.07	30.695		
6,050.00	4,953.22	4,670.58	3,056.36	55.35	71.79	60.86	971.92	3,011.01	2,792.54	2,701.40	91.14	30.640		
6,100.00	4,993.27	4,712.55	3,074.81	55.92	72.73	58.28	984.12	3,046.68	2,818.99	2,726.89	92.10	30.608		
6,150.00	5,034.75	4,754.63	3,093.32	56.45	73.67	54.34	996.35	3,082.44	2,843.96	2,751.02	92.94	30.599 SF		
6,200.00	5,077.34	4,796.52	3,111.74	56.91	74.61	49.00	1,008.52	3,118.03	2,867.32	2,773.66	93.66	30.615		
6,250.00	5,120.74	4,837.88	3,129.92	57.32	75.54	42.39	1,020.54	3,153.18	2,888.94	2,794.71	94.23	30.657		
6,300.00	5,164.59	4,878.40	3,147.74	57.67	76.45	34.81	1,032.32	3,187.62	2,908.73	2,814.07	94.66	30.727		
6,350.00	5,208.58	4,917.79	3,165.06	57.94	77.33	26.75	1,043.77	3,221.09	2,926.61	2,831.67	94.94	30.825		
6,400.00	5,252.36	4,955.73	3,181.74	58.15	78.18	18.78	1,054.79	3,253.33	2,942.54	2,847.48	95.07	30.952		
6,450.00	5,295.61	4,991.93	3,197.67	58.30	78.99	11.34	1,065.32	3,284.10	2,956.49	2,861.46	95.04	31.109		
6,500.00	5,337.99	5,026.13	3,212.70	58.38	79.75	4.72	1,075.26	3,313.16	2,968.46	2,873.61	94.85	31.297		
6,550.00	5,379.18	5,058.06	3,226.74	58.40	80.47	-1.02	1,084.54	3,340.30	2,978.43	2,883.92	94.51	31.515		
6,600.00	5,418.87	5,087.48	3,239.68	58.36	81.13	-5.92	1,093.09	3,365.30	2,986.45	2,892.43	94.02	31.765		
6,650.00	5,456.75	5,114.17	3,251.41	58.27	81.73	-10.09	1,100.84	3,387.98	2,992.53	2,899.15	93.38	32.045		
6,700.00	5,492.54	5,137.91	3,261.86	58.14	82.26	-13.64	1,107.75	3,408.16	2,996.73	2,904.11	92.62	32.356		
6,750.00	5,525.96	5,158.54	3,270.93	57.96	82.72	-16.68	1,113.74	3,425.69	2,999.09	2,907.36	91.72	32.697		
6,800.00	5,556.77	5,175.89	3,278.55	57.74	83.11	-19.31	1,118.78	3,440.43	2,999.65	2,908.94	90.72	33.066		
6,850.00	5,584.72	5,189.83	3,284.69	57.49	83.42	-21.59	1,122.84	3,452.28	2,998.49	2,908.88	89.61	33.462		
6,900.00	5,609.61	5,200.26	3,289.27	57.20	83.66	-23.60	1,125.87	3,461.14	2,995.64	2,907.22	88.42	33.881		
6,950.00	5,631.24	5,207.10	3,292.28	56.90	83.81	-25.37	1,127.85	3,466.95	2,991.17	2,904.01	87.15	34.321		
7,000.00	5,649.44	5,210.29	3,293.68	56.57	83.88	-26.94	1,128.78	3,469.66	2,985.12	2,899.29	85.83	34.778		
7,050.00	5,664.09	5,209.81	3,293.47	56.22	83.87	-28.34	1,128.64	3,469.25	2,977.55	2,893.07	84.48	35.247		
7,100.00	5,675.07	5,205.66	3,291.65	55.87	83.78	-29.59	1,127.44	3,465.73	2,968.50	2,885.40	83.10	35.723		
7,150.00	5,682.29	5,197.88	3,288.23	55.50	83.60	-30.70	1,125.18	3,459.12	2,958.01	2,876.29	81.71	36.200		
7,200.00	5,685.71	5,186.53	3,283.23	55.14	83.35	-31.70	1,121.88	3,449.47	2,946.11	2,865.77	80.34	36.671		
7,219.51	5,686.00	5,181.14	3,280.86	54.99	83.23	-32.06	1,120.31	3,444.89	2,941.09	2,861.29	79.81	36.852		
7,300.00	5,686.00	5,157.85	3,270.62	54.42	82.71	-31.61	1,113.54	3,425.10	2,920.91	2,843.25	77.67	37.609		
7,400.00	5,686.00	5,128.91	3,257.90	53.72	82.06	-31.06	1,105.13	3,400.50	2,898.50	2,823.36	75.14	38.576		
7,500.00	5,686.00	5,099.96	3,245.17	53.06	81.41	-30.50	1,096.72	3,375.91	2,879.10	2,806.32	72.78	39.558		
7,600.00	5,686.00	5,071.02	3,232.44	52.42	80.76	-29.94	1,088.30	3,351.31	2,862.76	2,792.14	70.62	40.535		
7,700.00	5,686.00	5,042.08	3,219.72	51.82	80.11	-29.38	1,079.89	3,326.72	2,849.55	2,780.86	68.70	41.481		
7,800.00	5,686.00	5,013.14	3,206.99	51.23	79.46	-28.82	1,071.48	3,302.12	2,839.51	2,772.49	67.02	42.370		
7,900.00	5,686.00	4,984.19	3,194.26	50.68	78.82	-28.25	1,063.07	3,277.53	2,832.67	2,767.06	65.61	43.172		
8,000.00	5,686.00	4,955.25	3,181.54	50.15	78.17	-27.69	1,054.66	3,252.93	2,829.05	2,764.55	64.50	43.858		
8,061.79	5,686.00	4,937.37	3,173.67	49.84	77.77	-27.35	1,049.46	3,237.73	2,828.43	2,764.46	63.98	44.211		
8,100.00	5,686.00	4,926.31	3,168.81	49.64	77.52	-27.13	1,046.24	3,228.33	2,828.67	2,764.97	63.70	44.403		
8,200.00	5,686.00	4,897.37	3,156.08	49.17	76.87	-26.57	1,037.83	3,203.74	2,831.53	2,768.30	63.22	44.786		
8,300.00	5,686.00	4,868.42	3,143.36	48.71	76.22	-26.01	1,029.42	3,179.14	2,837.61	2,774.55	63.06	44.995		
8,400.00	5,686.00	4,839.48	3,130.63	48.28	75.57	-25.45	1,021.01	3,154.55	2,846.90	2,783.68	63.22	45.031		
8,500.00	5,686.00	4,810.54	3,117.90	47.88	74.93	-24.89	1,012.60	3,129.95	2,859.37	2,795.69	63.68	44.904		
8,600.00	5,686.00	4,781.60	3,105.18	47.51	74.28	-24.33	1,004.19	3,105.36	2,874.97	2,810.56	64.41	44.635		
8,700.00	5,686.00	4,752.65	3,092.45	47.16	73.63	-23.77	995.77	3,080.76	2,893.65	2,828.26	65.39	44.251		

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-14 - 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	Rule Assigned:	
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)	Warning
8,800.00	5,686.00	4,723.71	3,079.72	46.84	72.98	-23.21	987.36	3,056.17	2,915.36	2,848.78	66.58	43.785	
8,900.00	5,686.00	4,694.77	3,067.00	46.56	72.33	-22.65	978.95	3,031.57	2,940.03	2,872.08	67.95	43.269	
9,000.00	5,686.00	4,665.83	3,054.27	46.31	71.69	-22.10	970.54	3,006.97	2,967.58	2,898.14	69.44	42.734	
9,100.00	5,686.00	4,636.88	3,041.54	46.12	71.04	-21.54	962.13	2,982.38	2,997.94	2,926.90	71.04	42.204	
9,200.00	5,686.00	4,607.94	3,028.82	45.98	70.39	-20.99	953.71	2,957.78	3,031.01	2,958.33	72.69	41.699	
9,300.00	5,686.00	4,579.00	3,016.09	45.93	69.74	-20.43	945.30	2,933.19	3,066.72	2,992.35	74.37	41.235	
9,400.00	5,686.00	4,550.06	3,003.36	46.00	69.10	-19.88	936.89	2,908.59	3,104.97	3,028.91	76.06	40.822	
9,500.00	5,686.00	4,521.11	2,990.64	46.23	68.45	-19.33	928.48	2,884.00	3,145.67	3,067.94	77.73	40.468	
9,600.00	5,686.00	4,492.17	2,977.91	46.66	67.80	-18.78	920.07	2,859.40	3,188.72	3,109.35	79.37	40.175	
9,700.00	5,686.00	4,463.23	2,965.18	47.29	67.15	-18.23	911.65	2,834.81	3,234.03	3,153.08	80.96	39.946	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-15 - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD								Rule Assigned:					Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	88.85	4.00	200.08	200.12				
100.00	100.00	100.00	100.00	0.14	0.14	88.85	4.00	200.08	200.12	199.83	0.29	697.827	
200.00	200.00	200.00	200.00	0.50	0.50	88.85	4.00	200.08	200.12	199.12	1.00	199.379	
300.00	300.00	300.00	300.00	0.86	0.86	88.85	4.00	200.08	200.12	198.40	1.72	116.305 CC, ES	
400.00	400.00	390.80	390.77	1.22	1.18	88.68	4.66	202.14	202.40	200.00	2.40	84.165	
500.00	500.00	481.19	480.92	1.58	1.51	88.18	6.61	208.27	209.24	206.16	3.09	67.783	
600.00	600.00	570.78	569.88	1.94	1.85	87.43	9.81	218.34	220.63	216.87	3.76	58.636	
700.00	700.00	659.19	657.07	2.29	2.21	86.50	14.21	232.17	236.54	232.11	4.43	53.392	
800.00	800.00	746.06	742.02	2.65	2.60	85.48	19.72	249.50	256.90	251.82	5.09	50.518	
900.00	900.00	831.09	824.28	3.01	3.03	84.45	26.24	270.00	281.64	275.92	5.73	49.184	
1,000.00	1,000.00	914.02	903.50	3.37	3.48	83.45	33.66	293.34	310.63	304.28	6.35	48.916	
1,100.00	1,100.00	1,000.00	984.43	3.73	4.01	82.47	42.45	320.97	343.77	336.78	6.99	49.149	
1,200.00	1,200.00	1,072.71	1,051.80	4.09	4.53	81.68	50.73	347.03	380.74	373.21	7.53	50.545	
1,300.00	1,300.00	1,148.16	1,120.56	4.45	5.10	80.93	60.15	376.63	421.50	413.40	8.11	52.000	
1,400.00	1,399.95	1,221.60	1,186.25	4.80	5.71	46.83	70.09	407.90	464.24	455.59	8.65	53.678	
1,500.00	1,499.63	1,300.00	1,254.93	5.16	6.42	45.77	81.55	443.92	507.21	497.97	9.24	54.912	
1,600.00	1,598.77	1,364.52	1,310.25	5.52	7.07	45.01	91.61	475.56	550.15	540.45	9.70	56.723	
1,700.00	1,697.08	1,434.02	1,368.55	5.90	7.81	44.51	103.07	511.60	593.12	582.89	10.23	57.991	
1,800.00	1,794.31	1,500.00	1,422.59	6.30	8.55	44.16	114.54	547.68	636.02	625.28	10.74	59.208	
1,900.00	1,890.18	1,569.15	1,477.78	6.73	9.40	44.01	127.17	587.37	678.82	667.48	11.34	59.875	
2,000.00	1,984.43	1,634.83	1,528.78	7.20	10.25	43.93	139.71	626.81	721.51	709.57	11.94	60.421	
2,100.00	2,076.81	1,700.00	1,577.95	7.73	11.13	43.95	152.67	667.57	764.10	751.49	12.60	60.630	
2,200.00	2,167.06	1,762.56	1,623.75	8.33	12.05	44.00	165.59	708.18	806.56	793.25	13.32	60.569	
2,300.00	2,254.93	1,824.68	1,667.81	8.99	12.99	44.11	178.85	749.90	848.92	834.80	14.11	60.144	
2,400.00	2,340.18	1,900.00	1,719.30	9.74	14.18	44.51	195.51	802.28	891.32	876.11	15.22	58.580	
2,500.00	2,422.59	1,945.59	1,749.40	10.56	14.95	44.41	205.89	834.91	933.29	917.28	16.00	58.317	
2,600.00	2,501.91	2,000.00	1,784.24	11.47	15.88	44.50	218.55	874.73	975.32	958.28	17.04	57.246	
2,700.00	2,577.95	2,062.35	1,822.68	12.47	17.00	44.77	233.43	921.51	1,017.22	998.87	18.35	55.439	
2,799.34	2,650.00	2,118.90	1,856.14	13.55	18.04	44.95	247.24	964.95	1,058.73	1,039.04	19.70	53.747	
2,800.00	2,650.47	2,119.28	1,856.36	13.55	18.05	44.96	247.34	965.25	1,059.01	1,039.30	19.71	53.735	
2,900.00	2,721.21	2,175.22	1,888.11	14.70	19.11	46.07	261.29	1,009.14	1,102.35	1,081.20	21.16	52.098	
3,000.00	2,791.95	2,230.07	1,917.92	15.87	20.19	47.06	275.25	1,053.02	1,148.70	1,126.06	22.64	50.734	
3,100.00	2,862.68	2,300.00	1,953.99	17.07	21.59	48.21	293.40	1,110.10	1,197.98	1,173.52	24.46	48.975	
3,200.00	2,933.42	2,336.30	1,971.84	18.29	22.35	48.76	302.98	1,140.22	1,249.48	1,223.86	25.63	48.759	
3,300.00	3,004.15	2,400.00	2,001.70	19.53	23.69	49.63	320.03	1,193.84	1,303.62	1,276.25	27.37	47.629	
3,400.00	3,074.89	2,442.38	2,020.52	20.77	24.60	50.15	331.54	1,230.03	1,359.78	1,331.11	28.66	47.442	
3,500.00	3,145.62	2,514.34	2,051.76	22.03	26.17	50.96	351.19	1,291.81	1,417.34	1,386.71	30.63	46.272	
3,600.00	3,216.36	2,594.00	2,086.34	23.30	27.92	51.80	372.93	1,360.19	1,475.15	1,442.35	32.80	44.969	
3,700.00	3,287.09	2,673.66	2,120.92	24.57	29.68	52.58	394.68	1,428.58	1,533.17	1,498.16	35.00	43.801	
3,800.00	3,357.83	2,753.31	2,155.50	25.85	31.44	53.30	416.43	1,496.96	1,591.36	1,554.14	37.22	42.750	
3,900.00	3,428.56	2,832.97	2,190.08	27.14	33.20	53.97	438.18	1,565.35	1,649.73	1,610.26	39.47	41.802	
4,000.00	3,499.30	2,912.63	2,224.66	28.43	34.97	54.60	459.92	1,633.73	1,708.23	1,666.51	41.72	40.942	
4,100.00	3,570.03	2,992.29	2,259.24	29.73	36.75	55.19	481.67	1,702.12	1,766.87	1,722.87	44.00	40.160	
4,200.00	3,640.77	3,071.94	2,293.82	31.03	38.52	55.74	503.42	1,770.51	1,825.62	1,779.34	46.28	39.446	
4,300.00	3,711.50	3,151.60	2,328.40	32.33	40.30	56.26	525.17	1,838.89	1,884.49	1,835.91	48.58	38.792	
4,400.00	3,782.24	3,231.26	2,362.98	33.64	42.08	56.75	546.91	1,907.28	1,943.45	1,892.56	50.89	38.191	
4,500.00	3,852.97	3,310.92	2,397.56	34.95	43.87	57.21	568.66	1,975.66	2,002.50	1,949.29	53.20	37.638	
4,600.00	3,923.71	3,390.57	2,432.14	36.26	45.66	57.65	590.41	2,044.05	2,061.63	2,006.10	55.53	37.127	
4,700.00	3,994.44	3,470.23	2,466.72	37.57	47.44	58.06	612.16	2,112.43	2,120.83	2,062.97	57.86	36.653	
4,800.00	4,065.18	3,549.89	2,501.30	38.88	49.23	58.45	633.90	2,180.82	2,180.11	2,119.91	60.20	36.213	
4,900.00	4,135.92	3,629.55	2,535.87	40.20	51.02	58.81	655.65	2,249.20	2,239.45	2,176.90	62.55	35.803	
5,000.00	4,206.65	3,709.20	2,570.45	41.52	52.82	59.16	677.40	2,317.59	2,298.84	2,233.94	64.90	35.421	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-15 - 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)			
5,100.00	4,277.39	3,788.86	2,605.03	42.84	54.61	59.50	699.15	2,385.98	2,358.29	2,291.04	67.26	35.064	
5,200.00	4,348.12	3,868.52	2,639.61	44.16	56.40	59.81	720.89	2,454.36	2,417.79	2,348.17	69.62	34.730	
5,300.00	4,418.86	3,948.18	2,674.19	45.48	58.20	60.12	742.64	2,522.75	2,477.34	2,405.35	71.98	34.415	
5,400.00	4,489.59	4,027.83	2,708.77	46.80	59.99	60.40	764.39	2,591.13	2,536.92	2,462.57	74.35	34.120	
5,500.00	4,560.33	4,107.49	2,743.35	48.12	61.79	60.68	786.14	2,659.52	2,596.55	2,519.83	76.73	33.842	
5,600.00	4,631.06	4,187.15	2,777.93	49.45	63.59	60.94	807.88	2,727.90	2,656.22	2,577.12	79.10	33.580	
5,700.00	4,701.80	4,266.81	2,812.51	50.77	65.39	61.19	829.63	2,796.29	2,715.92	2,634.44	81.48	33.332	
5,800.00	4,772.53	4,346.46	2,847.09	52.10	67.18	61.43	851.38	2,864.67	2,775.65	2,691.79	83.86	33.097	
5,900.00	4,843.27	4,426.12	2,881.67	53.42	68.98	61.66	873.13	2,933.06	2,835.42	2,749.17	86.25	32.875	
5,954.41	4,881.76	4,469.46	2,900.49	54.14	69.96	61.78	884.96	2,970.27	2,867.95	2,780.40	87.55	32.759	
6,000.00	4,914.92	4,506.20	2,916.44	54.73	70.79	61.69	894.99	3,001.80	2,894.83	2,806.23	88.60	32.673	
6,050.00	4,953.22	4,547.26	2,934.26	55.35	71.72	60.52	906.20	3,037.05	2,923.30	2,833.63	89.66	32.603	
6,100.00	4,993.27	4,588.82	2,952.30	55.92	72.66	58.09	917.55	3,072.74	2,950.51	2,859.88	90.63	32.557	
6,150.00	5,034.75	4,630.57	2,970.43	56.45	73.60	54.28	928.94	3,108.58	2,976.27	2,884.79	91.48	32.536 SF	
6,200.00	5,077.34	4,672.19	2,988.50	56.91	74.54	49.07	940.31	3,144.31	3,000.43	2,908.22	92.21	32.541	
6,250.00	5,120.74	4,713.37	3,006.37	57.32	75.47	42.57	951.55	3,179.66	3,022.85	2,930.05	92.80	32.573	
6,300.00	5,164.59	4,753.79	3,023.92	57.67	76.39	35.10	962.58	3,214.36	3,043.43	2,950.17	93.26	32.633	
6,350.00	5,208.58	4,793.14	3,041.00	57.94	77.28	27.14	973.33	3,248.14	3,062.09	2,968.51	93.57	32.723	
6,400.00	5,252.36	4,831.12	3,057.49	58.15	78.14	19.26	983.70	3,280.75	3,078.77	2,985.03	93.74	32.844	
6,450.00	5,295.61	4,867.45	3,073.26	58.30	78.96	11.91	993.61	3,311.94	3,093.42	2,999.67	93.75	32.996	
6,500.00	5,337.99	4,901.84	3,088.19	58.38	79.74	5.36	1,003.01	3,341.47	3,106.04	3,012.42	93.62	33.179	
6,550.00	5,379.18	4,934.05	3,102.17	58.40	80.46	-0.32	1,011.80	3,369.11	3,116.61	3,023.28	93.33	33.393	
6,600.00	5,418.87	4,963.81	3,115.09	58.36	81.14	-5.16	1,019.92	3,394.66	3,125.15	3,032.25	92.90	33.639	
6,650.00	5,456.75	4,990.91	3,126.85	58.27	81.75	-9.28	1,027.32	3,417.93	3,131.68	3,039.35	92.34	33.916	
6,700.00	5,492.54	5,015.13	3,137.37	58.14	82.30	-12.79	1,033.93	3,438.72	3,136.25	3,044.61	91.64	34.224	
6,750.00	5,525.96	5,036.30	3,146.56	57.96	82.78	-15.81	1,039.71	3,456.90	3,138.88	3,048.06	90.82	34.562	
6,800.00	5,556.77	5,054.25	3,154.35	57.74	83.18	-18.42	1,044.61	3,472.31	3,139.63	3,049.74	89.89	34.928	
6,850.00	5,584.72	5,068.85	3,160.69	57.49	83.51	-20.69	1,048.60	3,484.84	3,138.56	3,049.69	88.86	35.320	
6,900.00	5,609.61	5,079.98	3,165.52	57.20	83.77	-22.70	1,051.64	3,494.40	3,135.70	3,047.95	87.75	35.736	
6,950.00	5,631.24	5,087.57	3,168.81	56.90	83.94	-24.48	1,053.71	3,500.91	3,131.13	3,044.56	86.56	36.172	
7,000.00	5,649.44	5,091.54	3,170.54	56.57	84.03	-26.07	1,054.80	3,504.32	3,124.88	3,039.56	85.32	36.625	
7,050.00	5,664.09	5,091.88	3,170.69	56.22	84.03	-27.51	1,054.89	3,504.61	3,117.02	3,032.98	84.04	37.089	
7,100.00	5,675.07	5,088.58	3,169.25	55.87	83.96	-28.80	1,053.99	3,501.78	3,107.60	3,024.86	82.73	37.561	
7,150.00	5,682.29	5,081.66	3,166.25	55.50	83.80	-29.98	1,052.10	3,495.84	3,096.65	3,015.23	81.42	38.033	
7,200.00	5,685.71	5,071.18	3,161.70	55.14	83.57	-31.04	1,049.24	3,486.84	3,084.22	3,004.11	80.11	38.501	
7,219.51	5,686.00	5,066.14	3,159.51	54.99	83.45	-31.43	1,047.86	3,482.52	3,078.98	2,999.38	79.60	38.680	
7,300.00	5,686.00	5,044.27	3,150.02	54.42	82.96	-31.03	1,041.89	3,463.74	3,057.81	2,980.26	77.55	39.429	
7,400.00	5,686.00	5,017.09	3,138.22	53.72	82.34	-30.52	1,034.47	3,440.40	3,034.06	2,958.93	75.13	40.385	
7,500.00	5,686.00	4,989.91	3,126.42	53.06	81.73	-30.01	1,027.05	3,417.07	3,013.20	2,940.34	72.86	41.353	
7,600.00	5,686.00	4,962.73	3,114.62	52.42	81.11	-29.51	1,019.63	3,393.74	2,995.29	2,924.51	70.78	42.316	
7,700.00	5,686.00	4,935.56	3,102.82	51.82	80.50	-29.00	1,012.21	3,370.41	2,980.38	2,911.47	68.91	43.250	
7,800.00	5,686.00	4,908.38	3,091.03	51.23	79.88	-28.49	1,004.79	3,347.07	2,968.51	2,901.24	67.27	44.130	
7,900.00	5,686.00	4,881.20	3,079.23	50.68	79.27	-27.99	997.37	3,323.74	2,959.73	2,893.85	65.88	44.928	
8,000.00	5,686.00	4,854.02	3,067.43	50.15	78.65	-27.48	989.95	3,300.41	2,954.06	2,889.30	64.76	45.618	
8,100.00	5,686.00	4,826.84	3,055.63	49.64	78.04	-26.97	982.53	3,277.08	2,951.52	2,887.60	63.92	46.174	
8,131.07	5,686.00	4,818.40	3,051.97	49.49	77.85	-26.81	980.22	3,269.83	2,951.37	2,887.64	63.72	46.314	
8,200.00	5,686.00	4,799.66	3,043.83	49.17	77.43	-26.46	975.11	3,253.75	2,952.11	2,888.73	63.38	46.575	
8,300.00	5,686.00	4,772.49	3,032.03	48.71	76.81	-25.96	967.69	3,230.41	2,955.84	2,892.69	63.15	46.809	
8,400.00	5,686.00	4,745.31	3,020.24	48.28	76.20	-25.45	960.27	3,207.08	2,962.69	2,899.48	63.21	46.870	
8,500.00	5,686.00	4,718.13	3,008.44	47.88	75.58	-24.94	952.85	3,183.75	2,972.64	2,909.08	63.57	46.765	
8,600.00	5,686.00	4,690.95	2,996.64	47.51	74.97	-24.43	945.43	3,160.42	2,985.67	2,921.48	64.19	46.511	
8,700.00	5,686.00	4,663.77	2,984.84	47.16	74.35	-23.93	938.01	3,137.08	3,001.72	2,936.65	65.07	46.131	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-25-15 - 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)			
8,800.00	5,686.00	4,636.60	2,973.04	46.84	73.74	-23.42	930.59	3,113.75	3,020.76	2,954.59	66.16	45.655	
8,900.00	5,686.00	4,609.42	2,961.25	46.56	73.12	-22.92	923.17	3,090.42	3,042.72	2,975.28	67.44	45.115	
9,000.00	5,686.00	4,582.24	2,949.45	46.31	72.51	-22.41	915.75	3,067.09	3,067.55	2,998.67	68.87	44.540	
9,100.00	5,686.00	4,555.06	2,937.65	46.12	71.90	-21.91	908.33	3,043.76	3,095.16	3,024.75	70.41	43.957	
9,200.00	5,686.00	4,527.88	2,925.85	45.98	71.28	-21.40	900.91	3,020.42	3,125.50	3,053.47	72.03	43.390	
9,300.00	5,686.00	4,500.71	2,914.05	45.93	70.67	-20.90	893.49	2,997.09	3,158.49	3,084.78	73.70	42.854	
9,400.00	5,686.00	4,473.53	2,902.25	46.00	70.05	-20.40	886.07	2,973.76	3,194.03	3,118.63	75.40	42.364	
9,500.00	5,686.00	4,446.35	2,890.46	46.23	69.44	-19.90	878.65	2,950.43	3,232.05	3,154.96	77.09	41.927	
9,600.00	5,686.00	4,419.17	2,878.66	46.66	68.83	-19.40	871.23	2,927.09	3,272.45	3,193.69	78.76	41.550	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-26-6 - 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	88.95	0.36	19.95	19.96					
100.00	100.00	100.00	100.00	0.14	0.14	88.95	0.36	19.95	19.96	19.67	0.29	69.587		
200.00	200.00	200.00	200.00	0.50	0.50	88.95	0.36	19.95	19.96	18.95	1.00	19.882		
300.00	300.00	300.00	300.00	0.86	0.86	88.95	0.36	19.95	19.96	18.24	1.72	11.598		
400.00	400.00	400.00	400.00	1.22	1.22	88.95	0.36	19.95	19.96	17.52	2.44	8.187		
500.00	500.00	500.00	500.00	1.58	1.58	88.95	0.36	19.95	19.96	16.80	3.15	6.326		
600.00	600.00	600.00	600.00	1.94	1.94	88.95	0.36	19.95	19.96	16.08	3.87	5.155		
700.00	700.00	700.00	700.00	2.29	2.29	88.95	0.36	19.95	19.96	15.37	4.59	4.349		
800.00	800.00	800.00	800.00	2.65	2.65	88.95	0.36	19.95	19.96	14.65	5.31	3.761		
900.00	900.00	900.00	900.00	3.01	3.01	88.95	0.36	19.95	19.96	13.93	6.02	3.314		
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	88.95	0.36	19.95	19.96	13.22	6.74	2.961		
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	88.95	0.36	19.95	19.96	12.50	7.46	2.676		
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	88.95	0.36	19.95	19.96	11.78	8.17	2.442	CC, ES, SF	
1,300.00	1,300.00	1,299.22	1,299.17	4.45	4.44	83.90	2.31	21.64	21.78	12.90	8.88	2.453		
1,400.00	1,399.95	1,398.12	1,397.77	4.80	4.80	44.08	8.12	26.67	26.04	16.48	9.57	2.722		
1,500.00	1,499.63	1,496.76	1,495.56	5.16	5.15	40.12	17.76	35.02	30.98	20.75	10.23	3.029		
1,600.00	1,598.77	1,595.12	1,592.30	5.52	5.52	38.27	31.15	46.62	36.37	25.50	10.87	3.345		
1,700.00	1,697.08	1,693.20	1,687.74	5.90	5.92	37.78	48.23	61.42	42.12	30.60	11.51	3.658		
1,800.00	1,794.31	1,791.01	1,781.63	6.30	6.35	38.16	68.94	79.35	48.18	36.02	12.16	3.963		
1,900.00	1,890.18	1,888.55	1,873.73	6.73	6.82	39.11	93.17	100.34	54.56	41.73	12.83	4.254		
2,000.00	1,984.43	1,985.82	1,963.83	7.20	7.34	40.42	120.85	124.31	61.26	47.72	13.54	4.526		
2,100.00	2,076.81	2,082.81	2,051.71	7.73	7.93	41.97	151.86	151.18	68.30	53.98	14.32	4.771		
2,200.00	2,167.06	2,179.54	2,137.16	8.33	8.58	43.65	186.11	180.84	75.69	60.50	15.19	4.982		
2,300.00	2,254.93	2,276.01	2,219.98	8.99	9.32	45.40	223.48	213.21	83.45	67.26	16.19	5.153		
2,400.00	2,340.18	2,372.22	2,300.00	9.74	10.13	47.18	263.85	248.18	91.59	74.24	17.35	5.280		
2,500.00	2,422.59	2,468.19	2,377.03	10.56	11.02	48.95	307.10	285.65	100.11	81.44	18.67	5.362		
2,600.00	2,501.91	2,563.92	2,450.91	11.47	12.00	50.68	353.10	325.49	109.02	88.84	20.19	5.401		
2,700.00	2,577.95	2,659.42	2,521.48	12.47	13.06	52.37	401.73	367.61	118.32	96.42	21.90	5.402		
2,799.34	2,650.00	2,754.07	2,588.16	13.55	14.20	53.98	452.49	411.58	127.93	104.12	23.81	5.372		
2,800.00	2,650.47	2,754.70	2,588.60	13.55	14.21	54.00	452.84	411.88	128.00	104.17	23.83	5.372		
2,900.00	2,721.21	2,852.07	2,654.17	14.70	15.45	55.18	507.23	459.00	139.09	113.18	25.91	5.368		
3,000.00	2,791.95	2,951.38	2,720.68	15.87	16.76	56.06	562.98	507.29	150.56	122.43	28.13	5.353		
3,100.00	2,862.68	3,050.70	2,787.19	17.07	18.09	56.81	618.73	555.58	162.07	131.67	30.40	5.332		
3,200.00	2,933.42	3,150.01	2,853.69	18.29	19.45	57.47	674.49	603.87	173.60	140.89	32.71	5.308		
3,300.00	3,004.15	3,249.33	2,920.20	19.53	20.82	58.04	730.24	652.16	185.15	150.10	35.05	5.283		
3,400.00	3,074.89	3,348.64	2,986.71	20.77	22.21	58.54	785.99	700.46	196.71	159.30	37.42	5.257		
3,500.00	3,145.62	3,447.96	3,053.22	22.03	23.60	58.99	841.74	748.75	208.29	168.48	39.81	5.232		
3,600.00	3,216.36	3,547.27	3,119.72	23.30	25.01	59.39	897.49	797.04	219.88	177.66	42.22	5.208		
3,700.00	3,287.09	3,646.59	3,186.23	24.57	26.42	59.76	953.24	845.33	231.48	186.83	44.65	5.185		
3,800.00	3,357.83	3,745.90	3,252.74	25.85	27.84	60.08	1,008.99	893.62	243.09	196.00	47.09	5.162		
3,900.00	3,428.56	3,845.22	3,319.25	27.14	29.26	60.38	1,064.74	941.91	254.71	205.16	49.54	5.141		
4,000.00	3,499.30	3,944.53	3,385.76	28.43	30.69	60.65	1,120.49	990.20	266.33	214.32	52.01	5.121		
4,100.00	3,570.03	4,043.84	3,452.26	29.73	32.12	60.90	1,176.24	1,038.49	277.95	223.48	54.48	5.102		
4,200.00	3,640.77	4,143.16	3,518.77	31.03	33.56	61.13	1,231.99	1,086.78	289.59	232.63	56.96	5.084		
4,300.00	3,711.50	4,242.47	3,585.28	32.33	35.00	61.34	1,287.74	1,135.07	301.22	241.78	59.45	5.067		
4,400.00	3,782.24	4,341.79	3,651.79	33.64	36.44	61.53	1,343.49	1,183.37	312.86	250.92	61.94	5.051		
4,500.00	3,852.97	4,441.10	3,718.30	34.95	37.89	61.72	1,399.24	1,231.66	324.50	260.07	64.44	5.036		
4,600.00	3,923.71	4,540.42	3,784.80	36.26	39.34	61.88	1,454.99	1,279.95	336.15	269.21	66.94	5.022		
4,700.00	3,994.44	4,639.73	3,851.31	37.57	40.79	62.04	1,510.74	1,328.24	347.80	278.35	69.45	5.008		
4,800.00	4,065.18	4,739.05	3,917.82	38.88	42.24	62.19	1,566.49	1,376.53	359.45	287.49	71.96	4.995		
4,900.00	4,135.92	4,838.36	3,984.33	40.20	43.69	62.33	1,622.24	1,424.82	371.10	296.63	74.47	4.983		
5,000.00	4,206.65	4,937.68	4,050.84	41.52	45.14	62.46	1,677.99	1,473.11	382.76	305.77	76.99	4.972		

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-26-6 - 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)			
5,100.00	4,277.39	5,036.99	4,117.34	42.84	46.60	62.58	1,733.75	1,521.40	394.41	314.91	79.51	4.961	
5,200.00	4,348.12	5,136.31	4,183.85	44.16	48.06	62.69	1,789.50	1,569.69	406.07	324.04	82.03	4.950	
5,300.00	4,418.86	5,235.62	4,250.36	45.48	49.51	62.80	1,845.25	1,617.98	417.73	333.18	84.56	4.940	
5,400.00	4,489.59	5,334.94	4,316.87	46.80	50.97	62.90	1,901.00	1,666.27	429.39	342.31	87.08	4.931	
5,500.00	4,560.33	5,434.25	4,383.38	48.12	52.43	63.00	1,956.75	1,714.57	441.06	351.44	89.61	4.922	
5,600.00	4,631.06	5,533.57	4,449.88	49.45	53.89	63.09	2,012.50	1,762.86	452.72	360.58	92.14	4.913	
5,700.00	4,701.80	5,632.88	4,516.39	50.77	55.35	63.18	2,068.25	1,811.15	464.39	369.71	94.68	4.905	
5,800.00	4,772.53	5,732.20	4,582.90	52.10	56.81	63.26	2,124.00	1,859.44	476.05	378.84	97.21	4.897	
5,900.00	4,843.27	5,831.51	4,649.41	53.42	58.28	63.34	2,179.75	1,907.73	487.72	387.97	99.75	4.890	
5,954.41	4,881.76	5,885.55	4,685.59	54.14	59.07	63.39	2,210.08	1,934.01	494.07	392.94	101.13	4.886	
6,000.00	4,914.92	5,930.85	4,715.93	54.73	59.74	60.33	2,235.51	1,956.03	498.90	396.78	102.12	4.886	
6,050.00	4,953.22	5,980.34	4,749.08	55.35	60.47	55.69	2,263.30	1,980.10	503.10	400.29	102.81	4.893	
6,100.00	4,993.27	6,029.28	4,781.85	55.92	61.19	49.60	2,290.77	2,003.89	506.24	403.19	103.06	4.912	
6,150.00	5,034.75	6,077.29	4,814.00	56.45	61.90	42.01	2,317.72	2,027.24	508.54	405.74	102.81	4.946	
6,200.00	5,077.34	6,124.01	4,845.28	56.91	62.59	32.93	2,343.94	2,049.95	510.32	408.30	102.02	5.002	
6,250.00	5,120.74	6,169.07	4,875.46	57.32	63.25	22.56	2,369.24	2,071.86	511.95	411.32	100.63	5.087	
6,300.00	5,164.59	6,208.42	4,902.06	57.67	63.83	11.56	2,390.86	2,091.18	514.02	415.46	98.56	5.215	
6,350.00	5,208.58	6,246.46	4,928.79	57.94	64.37	0.46	2,409.71	2,110.59	517.15	421.03	96.12	5.380	
6,400.00	5,252.36	6,285.58	4,957.26	58.15	64.91	-10.32	2,426.77	2,131.28	521.46	427.99	93.46	5.579	
6,450.00	5,295.61	6,325.96	4,987.57	58.30	65.45	-20.33	2,441.81	2,153.30	526.99	436.29	90.69	5.811	
6,500.00	5,337.99	6,367.85	5,019.83	58.38	65.98	-29.31	2,454.59	2,176.74	533.76	445.85	87.92	6.071	
6,550.00	5,379.18	6,411.51	5,054.17	58.40	66.50	-37.22	2,464.77	2,201.70	541.78	456.54	85.23	6.356	
6,600.00	5,418.87	6,457.29	5,090.73	58.36	67.00	-44.11	2,471.94	2,228.28	550.99	468.26	82.74	6.660	
6,650.00	5,456.75	6,505.61	5,129.69	58.27	67.47	-50.12	2,475.58	2,256.61	561.32	480.82	80.50	6.973	
6,700.00	5,492.54	6,556.99	5,171.23	58.14	67.90	-55.39	2,474.97	2,286.82	572.65	494.08	78.57	7.288	
6,750.00	5,525.96	6,612.07	5,215.51	57.96	68.28	-60.06	2,469.22	2,319.03	584.80	507.81	76.99	7.596	
6,800.00	5,556.77	6,671.62	5,262.63	57.74	68.60	-64.23	2,457.12	2,353.32	597.56	521.78	75.78	7.885	
6,850.00	5,584.72	6,736.57	5,312.56	57.49	68.84	-68.01	2,437.11	2,389.66	610.66	535.68	74.97	8.145	
6,900.00	5,609.61	6,807.96	5,364.93	57.20	68.99	-71.45	2,407.22	2,427.79	623.73	549.10	74.63	8.358	
6,950.00	5,631.24	6,886.94	5,418.86	56.90	69.00	-74.59	2,365.06	2,467.07	636.35	561.49	74.86	8.501	
7,000.00	5,649.44	6,974.55	5,472.55	56.57	68.85	-77.41	2,308.09	2,506.20	647.99	572.12	75.88	8.540	
7,050.00	5,664.09	7,071.41	5,522.96	56.22	68.54	-79.82	2,234.14	2,542.97	658.06	580.12	77.94	8.443	
7,100.00	5,675.07	7,177.27	5,565.67	55.87	68.04	-81.71	2,142.62	2,574.16	665.91	584.67	81.24	8.197	
7,150.00	5,682.29	7,290.47	5,595.46	55.50	67.39	-82.93	2,035.80	2,595.98	670.94	585.24	85.70	7.829	
7,200.00	5,685.71	7,407.80	5,607.81	55.14	66.64	-83.35	1,919.69	2,605.13	672.72	581.89	90.83	7.406	
7,219.51	5,686.00	7,436.69	5,608.00	54.99	66.45	-83.34	1,890.81	2,605.30	672.64	581.28	91.36	7.362	
7,300.00	5,686.00	7,517.17	5,608.00	54.42	65.94	-83.34	1,810.32	2,605.42	672.64	582.39	90.25	7.453	
7,400.00	5,686.00	7,617.17	5,608.00	53.72	65.32	-83.34	1,710.32	2,605.56	672.64	583.67	88.97	7.561	
7,500.00	5,686.00	7,717.17	5,608.00	53.06	64.72	-83.34	1,610.32	2,605.70	672.64	584.82	87.81	7.660	
7,600.00	5,686.00	7,817.17	5,608.00	52.42	64.14	-83.34	1,510.32	2,605.84	672.63	585.85	86.79	7.751	
7,700.00	5,686.00	7,917.17	5,608.00	51.82	63.58	-83.34	1,410.32	2,605.98	672.63	586.74	85.89	7.831	
7,800.00	5,686.00	8,017.17	5,608.00	51.23	63.04	-83.34	1,310.32	2,606.12	672.63	587.49	85.14	7.900	
7,900.00	5,686.00	8,117.17	5,608.00	50.68	62.52	-83.34	1,210.33	2,606.27	672.63	588.10	84.53	7.957	
8,000.00	5,686.00	8,217.17	5,608.00	50.15	62.02	-83.34	1,110.33	2,606.41	672.63	588.56	84.07	8.001	
8,100.00	5,686.00	8,317.17	5,608.00	49.64	61.54	-83.34	1,010.33	2,606.55	672.62	588.88	83.75	8.032	
8,200.00	5,686.00	8,417.17	5,608.00	49.17	61.07	-83.34	910.33	2,606.69	672.62	589.04	83.58	8.048	
8,300.00	5,686.00	8,517.17	5,608.00	48.71	60.62	-83.34	810.33	2,606.83	672.62	589.06	83.56	8.049	
8,400.00	5,686.00	8,617.17	5,608.00	48.28	60.19	-83.34	710.33	2,606.97	672.62	588.92	83.69	8.037	
8,500.00	5,686.00	8,717.17	5,608.00	47.88	59.77	-83.34	610.33	2,607.11	672.62	588.64	83.97	8.010	
8,600.00	5,686.00	8,817.17	5,608.00	47.51	59.37	-83.34	510.33	2,607.26	672.61	588.21	84.40	7.969	
8,700.00	5,686.00	8,917.17	5,608.00	47.16	58.98	-83.34	410.33	2,607.40	672.61	587.63	84.98	7.915	
8,800.00	5,686.00	9,017.17	5,608.00	46.84	58.61	-83.34	310.33	2,607.54	672.61	586.91	85.70	7.849	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-26-6 - 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		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
8,900.00	5,686.00	9,117.17	5,608.00	46.56	58.24	-83.34	210.33	2,607.68	672.61	586.05	86.56	7.771
9,000.00	5,686.00	9,217.17	5,608.00	46.31	57.90	-83.34	110.33	2,607.82	672.60	585.06	87.55	7.683
9,100.00	5,686.00	9,317.17	5,608.00	46.12	57.56	-83.34	10.33	2,607.96	672.60	583.93	88.67	7.585
9,200.00	5,686.00	9,417.17	5,608.00	45.98	57.24	-83.34	-89.67	2,608.10	672.60	582.68	89.92	7.480
9,300.00	5,686.00	9,517.17	5,608.00	45.93	56.93	-83.34	-189.67	2,608.25	672.60	581.31	91.29	7.368
9,400.00	5,686.00	9,617.17	5,608.00	46.00	56.63	-83.34	-289.67	2,608.39	672.60	579.82	92.78	7.250
9,500.00	5,686.00	9,717.55	5,608.00	46.23	56.34	-83.34	-390.05	2,608.52	672.59	578.20	94.38	7.126
9,600.00	5,686.00	9,817.17	5,608.00	46.66	56.06	-83.34	-489.67	2,608.62	672.54	576.47	96.07	7.000
9,700.00	5,686.00	9,917.17	5,608.00	47.29	55.80	-83.34	-589.67	2,608.76	672.54	574.67	97.87	6.872
9,800.00	5,686.00	10,017.17	5,608.00	48.12	55.54	-83.34	-689.67	2,608.90	672.54	572.78	99.76	6.742
9,900.00	5,686.00	10,117.17	5,608.00	49.08	55.29	-83.34	-789.66	2,609.04	672.54	570.80	101.74	6.610
10,000.00	5,686.00	10,217.16	5,608.00	50.16	55.06	-83.34	-889.66	2,609.19	672.54	568.73	103.80	6.479
10,100.00	5,686.00	10,317.16	5,608.00	51.32	54.84	-83.34	-989.66	2,609.33	672.54	566.59	105.95	6.348
10,182.84	5,686.00	10,400.00	5,608.00	52.32	54.70	-83.34	-1,072.50	2,609.45	672.54	564.76	107.78	6.240
10,200.00	5,686.00	10,417.16	5,608.00	52.53	54.67	-83.34	-1,089.66	2,609.47	672.54	564.37	108.16	6.218
10,300.00	5,686.00	10,517.16	5,608.00	53.79	54.88	-83.34	-1,189.66	2,609.62	672.54	562.09	110.45	6.089
10,400.00	5,686.00	10,617.15	5,608.00	55.09	56.04	-83.34	-1,289.65	2,609.76	672.54	559.74	112.79	5.962
10,500.00	5,686.00	10,717.15	5,608.00	56.42	57.39	-83.34	-1,389.65	2,609.91	672.54	557.33	115.21	5.838
10,600.00	5,686.00	10,817.15	5,608.00	57.77	58.77	-83.34	-1,489.65	2,610.05	672.54	554.86	117.67	5.715
10,700.00	5,686.00	10,917.15	5,608.00	59.15	60.17	-83.34	-1,589.65	2,610.20	672.54	552.34	120.20	5.595
10,800.00	5,686.00	11,017.14	5,608.00	60.55	61.59	-83.34	-1,689.64	2,610.34	672.54	549.77	122.77	5.478
10,900.00	5,686.00	11,117.14	5,608.00	61.97	63.02	-83.34	-1,789.64	2,610.49	672.54	547.16	125.39	5.364
11,000.00	5,686.00	11,217.14	5,608.00	63.40	64.47	-83.34	-1,889.64	2,610.63	672.55	544.49	128.05	5.252
11,100.00	5,686.00	11,317.14	5,608.00	64.85	65.93	-83.34	-1,989.64	2,610.78	672.55	541.79	130.76	5.143
11,200.00	5,686.00	11,417.13	5,608.00	66.32	67.40	-83.34	-2,089.63	2,610.93	672.55	539.05	133.51	5.038
11,300.00	5,686.00	11,517.13	5,608.00	67.80	68.88	-83.34	-2,189.63	2,611.07	672.56	536.27	136.29	4.935
11,400.00	5,686.00	11,617.13	5,608.00	69.29	70.37	-83.34	-2,289.63	2,611.22	672.56	533.46	139.10	4.835
11,500.00	5,686.00	11,717.13	5,608.00	70.79	71.87	-83.34	-2,389.63	2,611.37	672.57	530.61	141.95	4.738
11,600.00	5,686.00	11,817.13	5,608.00	72.30	73.37	-83.34	-2,489.62	2,611.52	672.57	527.74	144.83	4.644
11,700.00	5,686.00	11,917.12	5,608.00	73.83	74.89	-83.34	-2,589.62	2,611.67	672.58	524.83	147.74	4.552
11,800.00	5,686.00	12,017.12	5,608.00	75.36	76.42	-83.34	-2,689.62	2,611.82	672.58	521.90	150.68	4.464
11,900.00	5,686.00	12,117.12	5,608.00	76.90	77.95	-83.34	-2,789.62	2,611.96	672.59	518.95	153.64	4.378
12,000.00	5,686.00	12,217.12	5,608.00	78.45	79.49	-83.34	-2,889.61	2,612.11	672.59	515.96	156.63	4.294
12,100.00	5,686.00	12,317.11	5,608.00	80.01	81.04	-83.34	-2,989.61	2,612.26	672.60	512.96	159.64	4.213
12,200.00	5,686.00	12,417.11	5,608.00	81.58	82.60	-83.34	-3,089.61	2,612.41	672.61	509.94	162.67	4.135
12,300.00	5,686.00	12,517.12	5,608.00	83.15	84.16	-83.34	-3,189.61	2,612.57	672.61	506.90	165.72	4.059
12,400.00	5,686.00	12,617.12	5,608.00	84.73	85.73	-83.34	-3,289.62	2,612.71	672.62	503.83	168.79	3.985
12,500.00	5,686.00	12,717.13	5,608.00	86.32	87.31	-83.34	-3,389.63	2,612.86	672.63	500.75	171.88	3.913
12,600.00	5,686.00	12,817.13	5,608.00	87.91	88.89	-83.34	-3,489.63	2,613.01	672.63	497.65	174.98	3.844
12,700.00	5,686.00	12,917.14	5,608.00	89.51	90.48	-83.34	-3,589.64	2,613.16	672.63	494.53	178.10	3.777
12,800.00	5,686.00	13,017.14	5,608.00	91.12	92.07	-83.34	-3,689.64	2,613.31	672.64	491.39	181.24	3.711
12,900.00	5,686.00	13,117.15	5,608.00	92.73	93.67	-83.34	-3,789.65	2,613.45	672.64	488.24	184.39	3.648
13,000.00	5,686.00	13,217.16	5,608.00	94.35	95.27	-83.34	-3,889.65	2,613.60	672.64	485.08	187.56	3.586
13,100.00	5,686.00	13,317.16	5,608.00	95.97	96.88	-83.34	-3,989.66	2,613.74	672.64	481.90	190.74	3.526
13,200.00	5,686.00	13,417.17	5,608.00	97.59	98.49	-83.34	-4,089.66	2,613.88	672.64	478.71	193.93	3.468
13,300.00	5,686.00	13,517.17	5,608.00	99.22	100.11	-83.34	-4,189.67	2,614.02	672.64	475.50	197.14	3.412
13,400.00	5,686.00	13,617.18	5,608.00	100.86	101.73	-83.34	-4,289.67	2,614.17	672.64	472.28	200.35	3.357
13,500.00	5,686.00	13,717.18	5,608.00	102.50	103.35	-83.34	-4,389.68	2,614.31	672.63	469.05	203.58	3.304
13,600.00	5,686.00	13,817.19	5,608.00	104.14	104.98	-83.34	-4,489.69	2,614.45	672.63	465.81	206.82	3.252
13,700.00	5,686.00	13,917.20	5,608.00	105.79	106.62	-83.34	-4,589.69	2,614.59	672.63	462.56	210.06	3.202
13,800.00	5,686.00	14,017.20	5,608.00	107.44	108.25	-83.34	-4,689.70	2,614.72	672.62	459.30	213.32	3.153
13,900.00	5,686.00	14,117.21	5,608.00	109.09	109.90	-83.34	-4,789.70	2,614.86	672.61	456.03	216.59	3.106

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-26-6 - 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)			
14,000.00	5,686.00	14,217.21	5,608.00	110.75	111.54	-83.34	-4,889.71	2,615.00	672.61	452.75	219.86	3.059	
14,100.00	5,686.00	14,317.22	5,608.00	112.41	113.19	-83.34	-4,989.71	2,615.13	672.60	449.46	223.14	3.014	
14,200.00	5,686.00	14,417.22	5,608.00	114.08	114.84	-83.34	-5,089.72	2,615.27	672.59	446.16	226.43	2.970	
14,300.00	5,686.00	14,517.23	5,608.00	115.74	116.49	-83.34	-5,189.72	2,615.40	672.58	442.85	229.73	2.928	
14,400.00	5,686.00	14,617.23	5,608.00	117.41	118.15	-83.34	-5,289.73	2,615.53	672.57	439.54	233.04	2.886	
14,500.00	5,686.00	14,717.24	5,608.00	119.09	119.81	-83.34	-5,389.73	2,615.67	672.56	436.21	236.35	2.846	
14,578.25	5,686.00	14,796.43	5,608.00	120.40	121.12	-83.34	-5,468.92	2,615.77	672.55	433.65	238.90	2.815	
14,580.81	5,686.00	14,798.86	5,608.00	120.44	121.16	-83.34	-5,471.36	2,615.77	672.55	433.56	238.99	2.814	
14,580.87	5,686.00	14,798.93	5,608.00	120.44	121.17	-83.34	-5,471.42	2,615.77	672.55	433.55	238.99	2.814	
14,600.00	5,686.00	14,818.06	5,608.00	120.76	121.48	-83.34	-5,490.55	2,615.77	672.55	432.92	239.63	2.807	
14,607.58	5,686.00	14,825.64	5,608.00	120.89	121.61	-83.34	-5,498.13	2,615.77	672.55	432.67	239.88	2.804	
14,678.08	5,686.00	14,893.95	5,608.00	122.07	122.75	-83.34	-5,566.44	2,615.78	672.55	430.23	242.32	2.775	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-26-7 - 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)			
0.00	0.00	0.00	0.00	0.00	0.00	88.97	0.72	39.91	39.91				
100.00	100.00	100.00	100.00	0.14	0.14	88.97	0.72	39.91	39.91	39.63	0.29	139.174	
200.00	200.00	200.00	200.00	0.50	0.50	88.97	0.72	39.91	39.91	38.91	1.00	39.764	
300.00	300.00	300.00	300.00	0.86	0.86	88.97	0.72	39.91	39.91	38.19	1.72	23.196	
400.00	400.00	400.00	400.00	1.22	1.22	88.97	0.72	39.91	39.91	37.47	2.44	16.373	
500.00	500.00	500.00	500.00	1.58	1.58	88.97	0.72	39.91	39.91	36.76	3.15	12.652	
600.00	600.00	600.00	600.00	1.94	1.94	88.97	0.72	39.91	39.91	36.04	3.87	10.309	
700.00	700.00	700.00	700.00	2.29	2.29	88.97	0.72	39.91	39.91	35.32	4.59	8.698	
800.00	800.00	800.00	800.00	2.65	2.65	88.97	0.72	39.91	39.91	34.61	5.31	7.523	
900.00	900.00	900.00	900.00	3.01	3.01	88.97	0.72	39.91	39.91	33.89	6.02	6.627	
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	88.97	0.72	39.91	39.91	33.17	6.74	5.922	
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	88.97	0.72	39.91	39.91	32.46	7.46	5.353 CC, ES	
1,200.00	1,200.00	1,198.36	1,198.32	4.09	4.08	86.69	2.42	41.78	41.89	33.73	8.16	5.134 SF	
1,300.00	1,300.00	1,296.21	1,295.86	4.45	4.43	81.03	7.47	47.37	48.14	39.29	8.85	5.442	
1,400.00	1,399.95	1,393.36	1,392.21	4.80	4.78	43.32	15.80	56.58	57.35	47.85	9.51	6.034	
1,500.00	1,499.63	1,489.98	1,487.28	5.16	5.15	40.62	27.33	69.34	67.48	57.34	10.14	6.654	
1,600.00	1,598.77	1,586.07	1,580.84	5.52	5.54	39.48	41.98	85.54	78.25	67.49	10.76	7.270	
1,700.00	1,697.08	1,681.61	1,672.66	5.90	5.96	39.34	59.66	105.09	89.55	78.18	11.38	7.871	
1,800.00	1,794.31	1,776.60	1,762.53	6.30	6.43	39.87	80.26	127.88	101.35	89.35	12.00	8.443	
1,900.00	1,890.18	1,871.03	1,850.26	6.73	6.94	40.82	103.69	153.79	113.64	100.99	12.65	8.981	
2,000.00	1,984.43	1,964.92	1,935.66	7.20	7.52	42.06	129.84	182.71	126.44	113.09	13.35	9.472	
2,100.00	2,076.81	2,058.25	2,018.55	7.73	8.16	43.48	158.59	214.51	139.78	125.66	14.12	9.902	
2,200.00	2,167.06	2,151.05	2,098.79	8.33	8.87	45.00	189.84	249.07	153.68	138.70	14.98	10.258	
2,300.00	2,254.93	2,243.30	2,176.23	8.99	9.66	46.57	223.46	286.25	168.17	152.20	15.97	10.530	
2,400.00	2,340.18	2,335.04	2,250.74	9.74	10.53	48.15	259.33	325.93	183.25	166.14	17.11	10.712	
2,500.00	2,422.59	2,426.27	2,322.21	10.56	11.47	49.72	297.35	367.98	198.94	180.53	18.41	10.804	
2,600.00	2,501.91	2,517.00	2,390.53	11.47	12.49	51.26	337.39	412.26	215.25	195.34	19.91	10.813	
2,700.00	2,577.95	2,607.27	2,455.61	12.47	13.59	52.75	379.34	458.65	232.17	210.57	21.60	10.751	
2,799.34	2,650.00	2,700.00	2,519.30	13.55	14.80	54.25	424.52	508.63	249.60	226.01	23.59	10.581	
2,800.00	2,650.47	2,700.00	2,519.30	13.55	14.80	54.25	424.52	508.63	249.71	226.12	23.58	10.588	
2,900.00	2,721.21	2,789.45	2,577.82	14.70	16.05	55.67	469.89	558.81	269.06	243.49	25.57	10.521	
3,000.00	2,791.95	2,887.22	2,641.13	15.87	17.46	56.89	519.86	614.07	289.26	261.37	27.89	10.370	
3,100.00	2,862.68	2,984.98	2,704.44	17.07	18.89	57.96	569.82	669.33	309.57	279.30	30.27	10.228	
3,200.00	2,933.42	3,082.74	2,767.75	18.29	20.34	58.89	619.78	724.59	329.97	297.28	32.68	10.096	
3,300.00	3,004.15	3,180.51	2,831.06	19.53	21.81	59.72	669.74	779.84	350.44	315.30	35.14	9.974	
3,400.00	3,074.89	3,278.27	2,894.37	20.77	23.28	60.45	719.70	835.10	370.97	333.35	37.62	9.862	
3,500.00	3,145.62	3,376.04	2,957.68	22.03	24.77	61.11	769.67	890.36	391.56	351.44	40.12	9.760	
3,600.00	3,216.36	3,473.80	3,020.99	23.30	26.27	61.70	819.63	945.62	412.19	369.54	42.64	9.666	
3,700.00	3,287.09	3,571.57	3,084.30	24.57	27.77	62.24	869.59	1,000.88	432.86	387.67	45.18	9.580	
3,800.00	3,357.83	3,669.33	3,147.61	25.85	29.28	62.72	919.55	1,056.13	453.56	405.82	47.74	9.501	
3,900.00	3,428.56	3,767.09	3,210.93	27.14	30.80	63.17	969.51	1,111.39	474.29	423.98	50.31	9.428	
4,000.00	3,499.30	3,864.86	3,274.24	28.43	32.32	63.57	1,019.48	1,166.65	495.04	442.16	52.88	9.361	
4,100.00	3,570.03	3,962.62	3,337.55	29.73	33.84	63.95	1,069.44	1,221.91	515.82	460.35	55.47	9.299	
4,200.00	3,640.77	4,060.39	3,400.86	31.03	35.37	64.29	1,119.40	1,277.17	536.62	478.56	58.06	9.242	
4,300.00	3,711.50	4,158.15	3,464.17	32.33	36.90	64.61	1,169.36	1,332.43	557.43	496.77	60.66	9.189	
4,400.00	3,782.24	4,255.92	3,527.48	33.64	38.43	64.91	1,219.32	1,387.68	578.26	514.99	63.27	9.140	
4,500.00	3,852.97	4,353.68	3,590.79	34.95	39.97	65.18	1,269.28	1,442.94	599.10	533.22	65.88	9.094	
4,600.00	3,923.71	4,451.44	3,654.10	36.26	41.50	65.44	1,319.25	1,498.20	619.96	551.46	68.50	9.051	
4,700.00	3,994.44	4,549.21	3,717.41	37.57	43.04	65.68	1,369.21	1,553.46	640.83	569.71	71.12	9.011	
4,800.00	4,065.18	4,646.97	3,780.72	38.88	44.58	65.91	1,419.17	1,608.72	661.70	587.96	73.74	8.973	
4,900.00	4,135.92	4,744.74	3,844.03	40.20	46.13	66.12	1,469.13	1,663.97	682.59	606.22	76.37	8.938	
5,000.00	4,206.65	4,842.50	3,907.34	41.52	47.67	66.32	1,519.09	1,719.23	703.48	624.48	79.00	8.905	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-26-7 - 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:	
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
5,100.00	4,277.39	4,940.27	3,970.65	42.84	49.21	66.51	1,569.06	1,774.49	724.39	642.75	81.63	8.874
5,200.00	4,348.12	5,038.03	4,033.96	44.16	50.76	66.68	1,619.02	1,829.75	745.29	661.03	84.27	8.844
5,300.00	4,418.86	5,135.80	4,097.27	45.48	52.30	66.85	1,668.98	1,885.01	766.21	679.30	86.91	8.816
5,400.00	4,489.59	5,233.56	4,160.58	46.80	53.85	67.01	1,718.94	1,940.26	787.13	697.58	89.55	8.790
5,500.00	4,560.33	5,331.32	4,223.89	48.12	55.40	67.16	1,768.90	1,995.52	808.06	715.87	92.19	8.765
5,600.00	4,631.06	5,429.09	4,287.20	49.45	56.95	67.30	1,818.87	2,050.78	828.99	734.16	94.83	8.742
5,700.00	4,701.80	5,526.85	4,350.51	50.77	58.50	67.44	1,868.83	2,106.04	849.93	752.45	97.48	8.719
5,800.00	4,772.53	5,624.62	4,413.83	52.10	60.05	67.57	1,918.79	2,161.30	870.87	770.74	100.13	8.698
5,900.00	4,843.27	5,722.38	4,477.14	53.42	61.60	67.69	1,968.75	2,216.55	891.81	789.04	102.77	8.677
5,954.41	4,881.76	5,775.58	4,511.58	54.14	62.44	67.76	1,995.94	2,246.62	903.21	799.00	104.22	8.667
6,000.00	4,914.92	5,820.26	4,540.52	54.73	63.15	65.20	2,018.77	2,271.88	912.15	806.82	105.33	8.660
6,050.00	4,953.22	5,869.30	4,572.28	55.35	63.93	61.27	2,043.83	2,299.60	920.51	814.17	106.34	8.657
6,100.00	4,993.27	5,918.02	4,603.83	55.92	64.70	56.06	2,068.73	2,327.13	927.36	820.27	107.09	8.659
6,150.00	5,034.75	5,966.04	4,634.92	56.45	65.47	49.47	2,093.27	2,354.27	932.77	825.19	107.58	8.670
6,200.00	5,077.34	6,013.00	4,665.33	56.91	66.21	41.50	2,117.27	2,380.81	936.85	829.07	107.78	8.693
6,250.00	5,120.74	6,058.53	4,694.82	57.32	66.94	32.29	2,140.54	2,406.55	939.78	832.13	107.65	8.730
6,300.00	5,164.59	6,102.31	4,723.17	57.67	67.63	22.16	2,162.91	2,431.29	941.77	834.59	107.18	8.787
6,350.00	5,208.58	6,143.98	4,750.16	57.94	68.29	11.65	2,184.21	2,454.85	943.08	836.74	106.35	8.868
6,400.00	5,252.36	6,183.24	4,775.58	58.15	68.92	1.34	2,204.27	2,477.04	944.02	838.89	105.13	8.980
6,450.00	5,295.61	6,219.78	4,799.24	58.30	69.50	-8.24	2,222.94	2,497.69	944.88	841.35	103.53	9.127
6,500.00	5,337.99	6,253.33	4,820.97	58.38	70.03	-16.80	2,240.09	2,516.65	945.99	844.45	101.54	9.317
6,550.00	5,379.18	6,283.63	4,840.59	58.40	70.51	-24.19	2,255.57	2,533.78	947.67	848.49	99.18	9.555
6,600.00	5,418.87	6,310.45	4,857.96	58.36	70.94	-30.41	2,269.28	2,548.94	950.24	853.75	96.49	9.848
6,650.00	5,456.75	6,333.59	4,872.94	58.27	71.31	-35.52	2,281.11	2,562.02	953.95	860.45	93.50	10.203
6,700.00	5,492.54	6,352.87	4,885.43	58.14	71.61	-39.57	2,290.96	2,572.92	959.06	868.77	90.29	10.622
6,750.00	5,525.96	6,368.14	4,895.32	57.96	71.85	-42.66	2,298.76	2,581.55	965.72	878.79	86.92	11.110
6,800.00	5,556.77	6,379.29	4,902.54	57.74	72.03	-44.84	2,304.46	2,587.85	974.04	890.54	83.50	11.665
6,850.00	5,584.72	6,386.24	4,907.04	57.49	72.14	-46.17	2,308.01	2,591.78	984.07	903.96	80.12	12.283
6,900.00	5,609.61	6,388.92	4,908.77	57.20	72.19	-46.72	2,309.38	2,593.29	995.77	918.90	76.87	12.954
6,950.00	5,631.24	6,387.32	4,907.74	56.90	72.16	-46.55	2,308.57	2,592.39	1,009.02	935.17	73.85	13.663
7,000.00	5,649.44	6,381.46	4,903.94	56.57	72.07	-45.71	2,305.57	2,589.08	1,023.65	952.51	71.14	14.389
7,050.00	5,664.09	6,371.37	4,897.41	56.22	71.91	-44.30	2,300.41	2,583.37	1,039.41	970.62	68.79	15.110
7,100.00	5,675.07	6,357.13	4,888.19	55.87	71.68	-42.38	2,293.14	2,575.33	1,056.02	989.19	66.83	15.801
7,150.00	5,682.29	6,338.86	4,876.36	55.50	71.39	-40.05	2,283.80	2,565.00	1,073.16	1,007.88	65.28	16.440
7,200.00	5,685.71	6,316.69	4,862.00	55.14	71.04	-37.41	2,272.47	2,552.47	1,090.47	1,026.35	64.11	17.008
7,219.51	5,686.00	6,307.01	4,855.73	54.99	70.88	-36.32	2,267.52	2,547.00	1,097.19	1,033.43	63.76	17.209
7,300.00	5,686.00	6,265.94	4,829.14	54.42	70.23	-34.42	2,246.54	2,523.79	1,126.62	1,063.82	62.80	17.941
7,400.00	5,686.00	6,214.92	4,796.10	53.72	69.42	-32.10	2,220.46	2,494.95	1,167.87	1,105.28	62.59	18.659
7,500.00	5,686.00	6,163.90	4,763.05	53.06	68.61	-29.84	2,194.39	2,466.11	1,213.83	1,150.59	63.24	19.193
7,600.00	5,686.00	6,112.87	4,730.01	52.42	67.80	-27.63	2,168.31	2,437.27	1,263.97	1,199.48	64.49	19.600
7,700.00	5,686.00	6,061.85	4,696.97	51.82	66.99	-25.49	2,142.24	2,408.43	1,317.83	1,251.73	66.10	19.937
7,800.00	5,686.00	8,395.11	5,686.00	51.23	77.03	-90.00	1,311.28	3,273.95	1,335.92	1,250.15	85.77	15.576
7,900.00	5,686.00	8,495.11	5,686.00	50.68	76.56	-90.00	1,211.28	3,274.09	1,335.92	1,250.87	85.05	15.708
8,000.00	5,686.00	8,595.11	5,686.00	50.15	76.11	-90.00	1,111.28	3,274.23	1,335.92	1,251.45	84.47	15.816
8,100.00	5,686.00	8,695.11	5,686.00	49.64	75.68	-90.00	1,011.28	3,274.38	1,335.91	1,251.88	84.04	15.897
8,200.00	5,686.00	8,795.11	5,686.00	49.17	75.26	-90.00	911.28	3,274.52	1,335.91	1,252.16	83.76	15.950
8,300.00	5,686.00	8,895.11	5,686.00	48.71	74.85	-90.00	811.28	3,274.66	1,335.91	1,252.28	83.63	15.974
8,400.00	5,686.00	8,995.11	5,686.00	48.28	74.46	-90.00	711.28	3,274.80	1,335.91	1,252.26	83.65	15.970
8,500.00	5,686.00	9,095.11	5,686.00	47.88	74.08	-90.00	611.28	3,274.94	1,335.91	1,252.08	83.83	15.937
8,600.00	5,686.00	9,195.11	5,686.00	47.51	73.71	-90.00	511.28	3,275.09	1,335.91	1,251.75	84.15	15.875
8,700.00	5,686.00	9,295.11	5,686.00	47.16	73.36	-90.00	411.28	3,275.23	1,335.90	1,251.28	84.63	15.786
8,800.00	5,686.00	9,395.11	5,686.00	46.84	73.02	-90.00	311.28	3,275.37	1,335.90	1,250.66	85.25	15.671

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-26-7 - 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)			
8,900.00	5,686.00	9,495.11	5,686.00	46.56	72.69	-90.00	211.28	3,275.51	1,335.90	1,249.89	86.01	15.532	
9,000.00	5,686.00	9,595.11	5,686.00	46.31	72.38	-90.00	111.28	3,275.65	1,335.90	1,248.98	86.92	15.370	
9,100.00	5,686.00	9,695.11	5,686.00	46.12	72.07	-90.00	11.28	3,275.79	1,335.90	1,247.94	87.96	15.188	
9,200.00	5,686.00	9,795.11	5,686.00	45.98	71.78	-90.00	-88.72	3,275.94	1,335.90	1,246.77	89.13	14.989	
9,300.00	5,686.00	9,895.11	5,686.00	45.93	71.51	-90.00	-188.72	3,276.08	1,335.89	1,245.47	90.42	14.774	
9,400.00	5,686.00	9,995.11	5,686.00	46.00	71.24	-90.00	-288.72	3,276.22	1,335.89	1,244.06	91.83	14.547	
9,500.00	5,686.00	10,095.11	5,686.00	46.23	70.99	-90.00	-388.72	3,276.36	1,335.89	1,242.53	93.36	14.308	
9,600.00	5,686.00	10,195.11	5,686.00	46.66	70.75	-90.00	-488.72	3,276.50	1,335.89	1,240.89	95.00	14.062	
9,700.00	5,686.00	10,295.11	5,686.00	47.29	70.52	-90.00	-588.72	3,276.65	1,335.89	1,239.15	96.74	13.809	
9,800.00	5,686.00	10,395.10	5,686.00	48.12	70.31	-90.00	-688.71	3,276.79	1,335.89	1,237.31	98.58	13.551	
9,900.00	5,686.00	10,495.09	5,686.00	49.08	70.12	-90.00	-788.70	3,276.93	1,335.89	1,235.37	100.51	13.291	
9,904.91	5,686.00	10,500.00	5,686.00	49.14	70.11	-90.00	-793.61	3,276.94	1,335.89	1,235.28	100.61	13.278	
10,000.00	5,686.00	10,595.09	5,686.00	50.16	69.94	-90.00	-888.70	3,277.08	1,335.89	1,233.36	102.53	13.029	
10,100.00	5,686.00	10,695.08	5,686.00	51.32	69.78	-90.00	-988.69	3,277.22	1,335.89	1,231.25	104.63	12.767	
10,200.00	5,686.00	10,795.07	5,686.00	52.53	69.65	-90.00	-1,088.68	3,277.37	1,335.89	1,229.08	106.81	12.507	
10,300.00	5,686.00	10,895.07	5,686.00	53.79	69.54	-90.00	-1,188.68	3,277.51	1,335.89	1,226.83	109.06	12.249	
10,400.00	5,686.00	10,995.06	5,686.00	55.09	69.47	-90.00	-1,288.67	3,277.66	1,335.89	1,224.51	111.38	11.994	
10,500.00	5,686.00	11,095.06	5,686.00	56.42	69.45	-90.00	-1,388.66	3,277.80	1,335.90	1,222.13	113.77	11.742	
10,600.00	5,686.00	11,195.05	5,686.00	57.77	69.47	-90.00	-1,488.66	3,277.95	1,335.90	1,219.69	116.21	11.495	
10,700.00	5,686.00	11,295.04	5,686.00	59.15	69.58	-90.00	-1,588.65	3,278.10	1,335.90	1,217.19	118.71	11.253	
10,800.00	5,686.00	11,395.04	5,686.00	60.55	69.79	-90.00	-1,688.65	3,278.24	1,335.91	1,214.64	121.27	11.016	
10,900.00	5,686.00	11,495.03	5,686.00	61.97	70.11	-90.00	-1,788.64	3,278.39	1,335.91	1,212.04	123.87	10.785	
11,000.00	5,686.00	11,595.02	5,686.00	63.40	70.60	-90.00	-1,888.63	3,278.54	1,335.92	1,209.39	126.52	10.559	
11,100.00	5,686.00	11,695.02	5,686.00	64.85	71.25	-90.00	-1,988.63	3,278.69	1,335.92	1,206.71	129.22	10.339	
11,200.00	5,686.00	11,795.01	5,686.00	66.32	72.07	-90.00	-2,088.62	3,278.84	1,335.93	1,203.98	131.95	10.124	
11,300.00	5,686.00	11,895.00	5,686.00	67.80	73.04	-90.00	-2,188.61	3,278.99	1,335.94	1,201.21	134.73	9.916	
11,400.00	5,686.00	11,995.00	5,686.00	69.29	74.13	-90.00	-2,288.61	3,279.14	1,335.94	1,198.40	137.54	9.713	
11,500.00	5,686.00	12,094.99	5,686.00	70.79	75.32	-90.00	-2,388.60	3,279.29	1,335.95	1,195.57	140.38	9.517	
11,600.00	5,686.00	12,194.98	5,686.00	72.30	76.59	-90.00	-2,488.59	3,279.44	1,335.96	1,192.70	143.26	9.325	
11,700.00	5,686.00	12,294.98	5,686.00	73.83	77.90	-90.00	-2,588.59	3,279.59	1,335.97	1,189.80	146.17	9.140	
11,800.00	5,686.00	12,394.97	5,686.00	75.36	79.27	-90.00	-2,688.58	3,279.75	1,335.97	1,186.87	149.10	8.960	
11,900.00	5,686.00	12,494.97	5,686.00	76.90	80.67	-90.00	-2,788.57	3,279.90	1,335.98	1,183.92	152.06	8.786	
12,000.00	5,686.00	12,594.96	5,686.00	78.45	82.09	-90.00	-2,888.57	3,280.05	1,335.99	1,180.94	155.05	8.616	
12,100.00	5,686.00	12,694.95	5,686.00	80.01	83.54	-90.00	-2,988.56	3,280.21	1,336.00	1,177.94	158.06	8.452	
12,200.00	5,686.00	12,794.95	5,686.00	81.58	85.01	-90.00	-3,088.55	3,280.36	1,336.02	1,174.92	161.10	8.293	
12,300.00	5,686.00	12,894.95	5,686.00	83.15	86.49	-90.00	-3,188.55	3,280.51	1,336.03	1,171.87	164.15	8.139	
12,400.00	5,686.00	12,994.96	5,686.00	84.73	87.99	-90.00	-3,288.56	3,280.67	1,336.04	1,168.81	167.23	7.989	
12,500.00	5,686.00	13,094.97	5,686.00	86.32	89.50	-90.00	-3,388.58	3,280.82	1,336.05	1,165.72	170.32	7.844	
12,600.00	5,686.00	13,194.98	5,686.00	87.91	91.03	-90.00	-3,488.59	3,280.97	1,336.05	1,162.62	173.43	7.704	
12,700.00	5,686.00	13,294.99	5,686.00	89.51	92.56	-90.00	-3,588.60	3,281.12	1,336.06	1,159.50	176.56	7.567	
12,800.00	5,686.00	13,395.01	5,686.00	91.12	94.10	-90.00	-3,688.61	3,281.27	1,336.07	1,156.36	179.71	7.435	
12,900.00	5,686.00	13,495.02	5,686.00	92.73	95.66	-90.00	-3,788.63	3,281.42	1,336.07	1,153.20	182.87	7.306	
13,000.00	5,686.00	13,595.03	5,686.00	94.35	97.22	-90.00	-3,888.64	3,281.57	1,336.08	1,150.03	186.04	7.181	
13,100.00	5,686.00	13,695.04	5,686.00	95.97	98.78	-90.00	-3,988.65	3,281.72	1,336.08	1,146.85	189.23	7.060	
13,200.00	5,686.00	13,795.06	5,686.00	97.59	100.36	-90.00	-4,088.66	3,281.86	1,336.08	1,143.65	192.44	6.943	
13,300.00	5,686.00	13,895.07	5,686.00	99.22	101.94	-90.00	-4,188.68	3,282.01	1,336.09	1,140.43	195.65	6.829	
13,400.00	5,686.00	13,995.08	5,686.00	100.86	103.52	-90.00	-4,288.69	3,282.15	1,336.09	1,137.21	198.88	6.718	
13,500.00	5,686.00	14,095.10	5,686.00	102.50	105.11	-90.00	-4,388.70	3,282.30	1,336.09	1,133.97	202.12	6.610	
13,600.00	5,686.00	14,195.11	5,686.00	104.14	106.71	-90.00	-4,488.71	3,282.44	1,336.08	1,130.72	205.36	6.506	
13,700.00	5,686.00	14,295.12	5,686.00	105.79	108.31	-90.00	-4,588.73	3,282.58	1,336.08	1,127.46	208.62	6.404	
13,800.00	5,686.00	14,395.13	5,686.00	107.44	109.92	-90.00	-4,688.74	3,282.72	1,336.08	1,124.19	211.89	6.305	
13,900.00	5,686.00	14,495.15	5,686.00	109.09	111.53	-90.00	-4,788.75	3,282.86	1,336.07	1,120.90	215.17	6.209	

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 FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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: SE NW SEC. 23 T9N R58W 6th P.M. - FISCUS FED 9-58 23-26-7 - 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	
14,000.00	5,686.00	14,595.16	5,686.00	110.75	113.15	-90.00	-4,888.76	3,283.00	1,336.07	1,117.61	218.46	6.116	
14,100.00	5,686.00	14,695.17	5,686.00	112.41	114.77	-90.00	-4,988.78	3,283.14	1,336.06	1,114.31	221.75	6.025	
14,200.00	5,686.00	14,795.18	5,686.00	114.08	116.39	-90.00	-5,088.79	3,283.27	1,336.06	1,111.00	225.06	5.937	
14,300.00	5,686.00	14,895.20	5,686.00	115.74	118.02	-90.00	-5,188.80	3,283.41	1,336.05	1,107.68	228.37	5.850	
14,400.00	5,686.00	14,995.21	5,686.00	117.41	119.65	-90.00	-5,288.81	3,283.54	1,336.04	1,104.35	231.69	5.767	
14,500.00	5,686.00	15,095.22	5,686.00	119.09	121.29	-90.00	-5,388.83	3,283.68	1,336.03	1,101.02	235.01	5.685	
14,578.25	5,686.00	15,175.10	5,686.00	120.40	122.59	-90.00	-5,468.70	3,283.78	1,336.02	1,098.42	237.59	5.623	
14,580.76	5,686.00	15,177.61	5,686.00	120.44	122.63	-90.00	-5,471.21	3,283.78	1,336.02	1,098.34	237.68	5.621	
14,580.87	5,686.00	15,177.72	5,686.00	120.44	122.64	-90.00	-5,471.33	3,283.78	1,336.02	1,098.34	237.68	5.621	
14,600.00	5,686.00	15,196.85	5,686.00	120.76	122.95	-90.00	-5,490.45	3,283.78	1,336.02	1,097.70	238.32	5.606	
14,606.33	5,686.00	15,203.18	5,686.00	120.87	123.05	-90.00	-5,496.78	3,283.78	1,336.02	1,097.49	238.53	5.601	
14,678.08	5,686.00	15,270.21	5,686.00	122.07	124.15	-90.00	-5,563.81	3,283.79	1,336.03	1,095.03	241.00	5.544	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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 @ 4732.00usft

Offset Depths are relative to Offset Datum

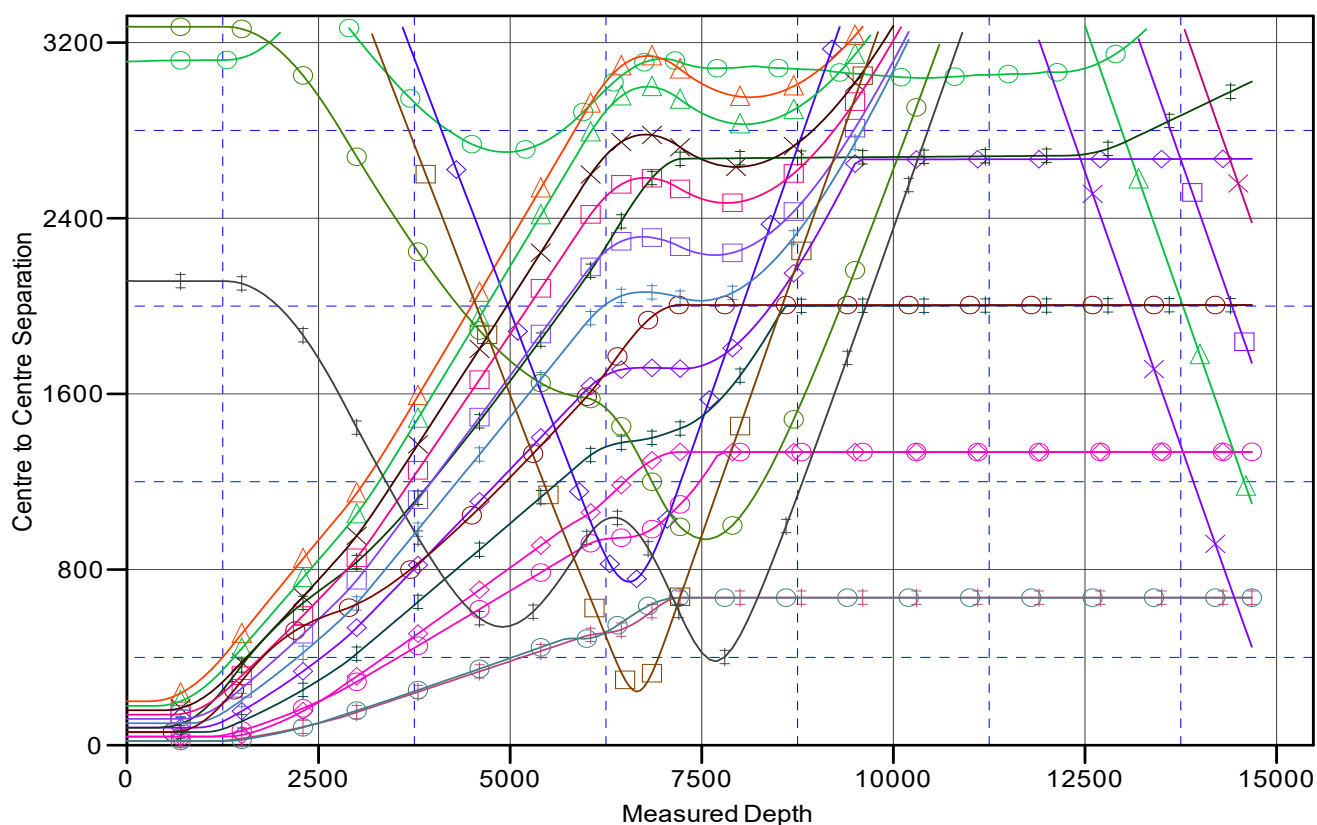
Central Meridian is -105.500000

Coordinates are relative to: FISCUS 9-58 23-26-5

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 1.08°

Ladder Plot



LEGEND

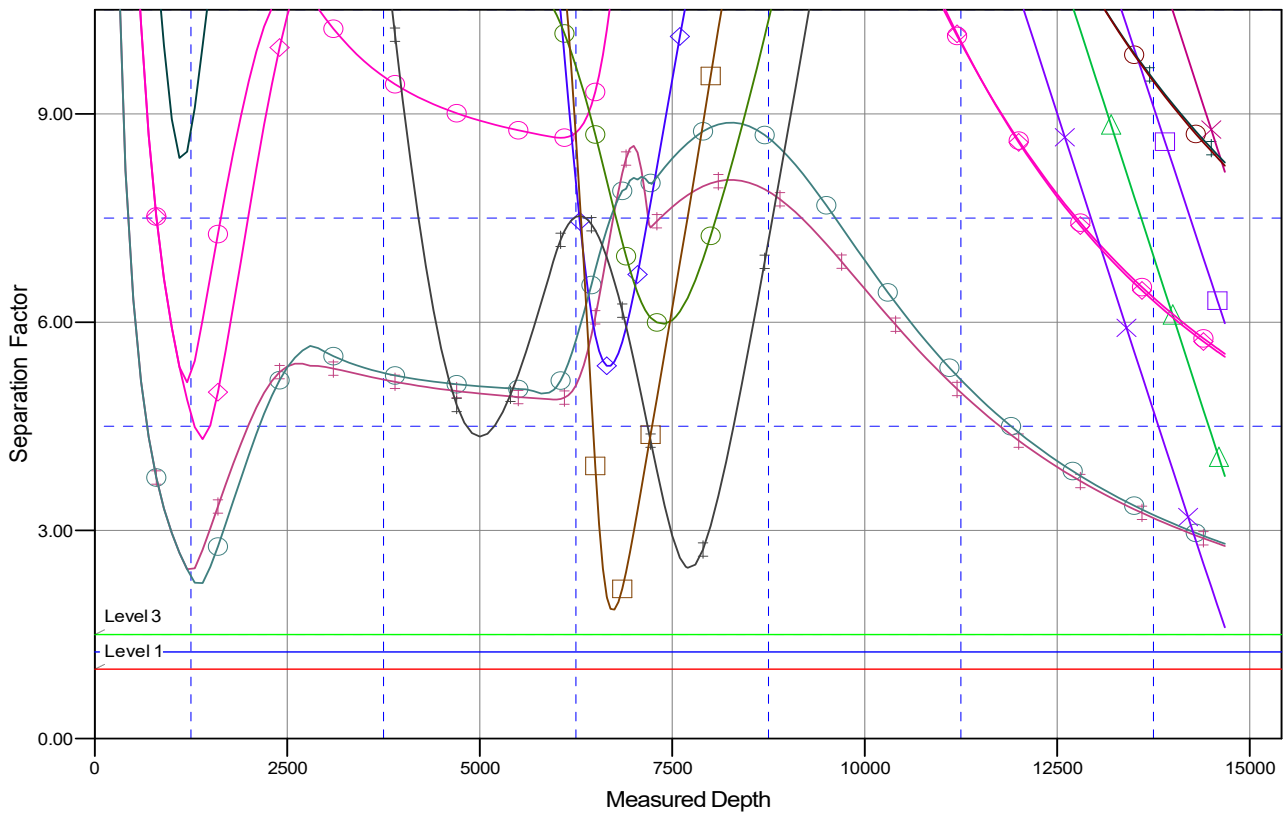
FISCUS FED 9-58 23-26-6, ORIGINAL WELLBORE, PROPOSAL #1 V0	FISCUS 9-58 23-26-4, ORIGINAL WELLBORE, PROPOSAL #1 V0	FISCUS FED 9-58 23-25-14, ORIGINAL WELLBORE, PROPOSAL #1 V0
EXIST HZ FISCUS FED #LD23-78N, Wellbore #1, Wellbore #1 V0	EXIST HZ ELLIE #LD26-645, Wellbore #1, Wellbore #1 V0	FISCUS FED 9-58 23-25-12, ORIGINAL WELLBORE, PROPOSAL #1 V0
FISCUS FED 9-58 23-25-15, ORIGINAL WELLBORE, PROPOSAL #1 V0	EXIST HZ ELLIE #LD26-615, Wellbore #1, Wellbore #1 V0	ABDN VERT HENSLEY A-1, Wellbore #1, Design #1 V0
EXIST HZ ELLIE #LD26-635, Wellbore #1, Wellbore #1 V0	FISCUS 9-58 23-25-8, ORIGINAL WELLBORE, PROPOSAL #1 V0	FISCUS FED 9-58 23-25-10, ORIGINAL WELLBORE, PROPOSAL #1 V0
EXIST HZ ELLIE #LD26-625, Wellbore #1, Wellbore #1 V0	ABDN VERT INGRAM #1, Wellbore #1, Design #1 V0	FISCUS FED 9-58 23-25-11, ORIGINAL WELLBORE, PROPOSAL #1 V0
FISCUS FED 9-58 23-26-7, ORIGINAL WELLBORE, PROPOSAL #1 V0	FISCUS 9-58 23-26-3, ORIGINAL WELLBORE, PROPOSAL #1 V0	EXIST HZ TATANKA FED LD #13-615, Wellbore #1, Wellbore #1 V0
EXIST HZ TATANKA FED LD #13-625, Wellbore #1, Wellbore #1 V0	FISCUS FED 9-58 23-25-13, ORIGINAL WELLBORE, PROPOSAL #1 V0	FISCUS 9-58 23-26-2, ORIGINAL WELLBORE, PROPOSAL #1 V0
FISCUS 9-58 23-25-9, ORIGINAL WELLBORE, PROPOSAL #1 V0	FISCUS 9-58 23-26-1, ORIGINAL WELLBORE, PROPOSAL #1 V0	

Company:	BISON IV OPERATING	Local Co-ordinate Reference:	Well FISCUS 9-58 23-26-5
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KBE @ 4732.00usft
Reference Site:	SE NW SEC. 23 T9N R58W 6th P.M.	MD Reference:	KBE @ 4732.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FISCUS 9-58 23-26-5	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 @ 4732.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: FISCUS 9-58 23-26-5
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 1.08°

Separation Factor Plot



LEGEND

- | | | |
|--|---|--|
| FISCUS FED 9-58 23-26-4, ORIGINAL WELLBORE, PROPOSAL #1 V0 | FISCUS 9-58 23-26-4, ORIGINAL WELLBORE, PROPOSAL #1 V0 | FISCUS FED 9-58 23-25-14, ORIGINAL WELLBORE, PROPOSAL #1 V0 |
| EXIST HZ FISCUS FED #LD23-78H, Wellbore #1, Wellbore #1 V0 | EXIST HZ ELLIE #LD26-645, Wellbore #1, Wellbore #1 V0 | FISCUS FED 9-58 23-25-12, ORIGINAL WELLBORE, PROPOSAL #1 V0 |
| FISCUS FED 9-58 23-25-15, ORIGINAL WELLBORE, PROPOSAL #1 V0 | EXIST HZ ELLIE #LD26-615, Wellbore #1, Wellbore #1 V0 | ABDN VERT HENSLEY A-1, Wellbore #1, Design #1 V0 |
| EXIST HZ ELLIE #LD26-635, Wellbore #1, Wellbore #1 V0 | FISCUS 9-58 23-25-8, ORIGINAL WELLBORE, PROPOSAL #1 V0 | FISCUS FED 9-58 23-25-10, ORIGINAL WELLBORE, PROPOSAL #1 V0 |
| EXIST HZ ELLIE #LD26-625, Wellbore #1, Wellbore #1 V0 | ABDN VERT INGRAM #1, Wellbore #1, Design #1 V0 | FISCUS FED 9-58 23-25-11, ORIGINAL WELLBORE, PROPOSAL #1 V0 |
| FISCUS FED 9-58 23-26-7, ORIGINAL WELLBORE, PROPOSAL #1 V0 | FISCUS 9-58 23-26-3, ORIGINAL WELLBORE, PROPOSAL #1 V0 | EXIST HZ TATANKA FED LD #13-615, Wellbore #1, Wellbore #1 V0 |
| EXIST HZ TATANKA FED LD #13-625, Wellbore #1, Wellbore #1 V0 | FISCUS FED 9-58 23-25-13, ORIGINAL WELLBORE, PROPOSAL #1 V0 | FISCUS 9-58 23-26-2, ORIGINAL WELLBORE, PROPOSAL #1 V0 |
| FISCUS 9-58 23-25-9, ORIGINAL WELLBORE, PROPOSAL #1 V0 | FISCUS 9-58 23-26-1, ORIGINAL WELLBORE, PROPOSAL #1 V0 | |