



# **BISON IV OPERATING**

**LARIMER COUNTY, COLORADO (NAD 83)**

**SEC. 11 T5N R68W 6th P.M.**

**CE 5-68 11-10-11H**

**ORIGINAL WELLBORE**

**PROPOSAL #1**

## **Anticollision Report**

**19 July, 2024**



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

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

<b>Survey Tool Program</b>	Date	2024-07-19		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	15,602.20	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
SEC. 11 T5N R68W 6th P.M.						
ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1	5,258.21	5,485.73	2,156.14	2,115.70	53.315	CC
ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1	5,300.00	5,515.00	2,156.32	2,115.65	53.019	ES
ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1	6,900.00	7,123.13	2,206.27	2,154.38	42.517	SF
ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1	5,386.69	5,806.64	2,243.25	2,189.45	41.697	CC
ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1	5,400.00	5,813.45	2,243.29	2,189.42	41.644	ES
ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1	6,850.00	7,166.35	2,314.27	2,251.81	37.052	SF
ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1	6,211.16	6,690.27	1,273.29	1,223.51	25.576	CC
ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1	6,300.00	6,770.82	1,273.62	1,223.34	25.333	ES
ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1	6,800.00	7,252.67	1,290.83	1,237.52	24.216	SF
ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1	6,728.56	7,101.63	1,188.09	1,125.75	19.058	CC, ES
ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1	6,800.00	7,169.40	1,192.12	1,129.47	19.030	SF
ABDN DD MIRACLE 13-12 - Wellbore #1 - Wellbore #1	6,776.54	7,363.27	2,131.97	2,050.93	26.308	CC, ES
ABDN DD MIRACLE 13-12 - Wellbore #1 - Wellbore #1	7,000.00	7,587.71	2,152.24	2,069.77	26.095	SF
ABDN VERT DONNAMITE 1 - Wellbore #1 - Design #1	15,602.20	7,146.00	2,099.34	1,754.07	6.080	CC, ES, SF
ABDN VERT KNESS 1 - Wellbore #1 - Design #1	700.00	706.00	3,215.70	3,199.60	199.798	CC
ABDN VERT KNESS 1 - Wellbore #1 - Design #1	800.00	805.98	3,217.42	3,198.97	174.355	ES
ABDN VERT KNESS 1 - Wellbore #1 - Design #1	1,600.00	1,603.58	3,278.11	3,240.84	87.954	SF
ABDN VERT MCWHINNEY-VANDERWATER1 - Wellbor	12,841.09	7,215.00	1,844.17	1,542.58	6.115	CC
ABDN VERT MCWHINNEY-VANDERWATER1 - Wellbor	12,900.00	7,215.00	1,845.11	1,541.87	6.085	ES
ABDN VERT MCWHINNEY-VANDERWATER1 - Wellbor	13,100.00	7,215.00	1,862.25	1,554.62	6.054	SF
ABDN VERT MEAN 1 - Wellbore #1 - Design #1	15,602.20	6,727.00	2,396.96	2,211.28	12.909	CC, ES, SF
ABDN VERT NASTY 1 - Wellbore #1 - Design #1	15,602.20	6,794.00	2,970.70	2,695.42	10.791	CC, ES, SF
ABDN VERT RAUSLER 1 - Wellbore #1 - Design #1						Out of range
CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOS	407.41	407.43	18.10	15.62	7.293	CC
CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOS	15,586.69	15,910.39	449.73	-8.62	0.981	Level 3, ES, SF
CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOS	600.00	600.00	14.57	10.70	3.764	CC, ES
CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOS	15,602.20	15,617.51	477.09	45.82	1.106	Level 3, SF
CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOS	500.00	500.00	32.79	29.63	10.394	CC, ES
CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOS	15,602.20	15,765.69	878.61	415.04	1.895	SF
CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOS	400.00	400.00	47.36	44.92	19.428	CC, ES
CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOS	15,602.20	16,381.25	1,311.55	837.39	2.766	SF
CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOS	300.00	300.00	61.93	60.21	35.990	CC, ES
CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOS	15,602.20	16,305.41	1,755.41	1,283.34	3.719	SF
CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSA	960.81	960.47	35.76	29.36	5.586	CC
CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSA	1,000.00	999.53	35.90	29.22	5.377	ES
CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSA	1,200.00	1,198.88	40.60	32.51	5.017	SF
CE 5-68 11-10-6H - ORIGINAL WELLBORE - PROPOSA	1,177.09	1,176.04	41.21	33.27	5.192	CC

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

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

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC. 11 T5N R68W 6th P.M.						
CE 5-68 11-10-6H - ORIGINAL WELLBORE - PROPOSA	1,200.00	1,198.88	41.25	33.15	5.092	ES
CE 5-68 11-10-6H - ORIGINAL WELLBORE - PROPOSA	1,400.00	1,398.23	44.93	35.40	4.713	SF
CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSA	1,350.02	1,348.41	45.56	36.38	4.962	CC
CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSA	1,400.00	1,398.23	45.74	36.19	4.793	ES
CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSA	15,602.20	15,455.54	1,755.90	1,298.07	3.835	SF
CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSA	300.00	300.00	47.36	45.64	27.524	CC, ES
CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSA	15,602.20	15,478.21	1,315.62	856.25	2.864	SF
CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSA	400.00	400.00	32.79	30.35	13.450	CC, ES
CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSA	15,600.00	15,495.74	898.29	443.76	1.976	SF
CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL	700.00	700.00	50.44	45.86	10.994	CC, ES
CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL	900.00	899.84	57.05	51.07	9.542	SF
CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL	700.00	700.00	39.86	35.27	8.686	CC, ES
CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL	900.00	899.84	45.88	39.90	7.673	SF
CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL	700.00	700.00	31.48	26.90	6.862	CC, ES
CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL	900.00	899.84	35.56	29.59	5.950	SF
CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL	700.00	700.00	31.48	26.90	6.862	CC
CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL	800.00	799.98	31.65	26.37	5.986	ES
CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL	1,000.00	999.53	35.74	29.06	5.354	SF
EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #	1,632.52	1,812.00	1,931.34	1,917.27	137.288	CC
EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #	1,700.00	1,860.45	1,931.70	1,917.07	131.988	ES
EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #	8,900.00	7,130.00	2,496.10	2,408.31	28.434	SF
EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore	830.02	912.20	1,995.26	1,989.06	321.607	CC, ES
EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore	9,200.00	6,899.55	2,934.82	2,842.02	31.625	SF
EXIST HZ ENCORE 40N-12HZ - Wellbore #1 - Wellbore	6,980.05	7,485.98	513.46	458.12	9.277	CC, ES, SF
EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore	6,818.33	8,018.42	1,685.16	1,614.99	24.016	CC, ES
EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore	6,850.00	8,010.20	1,685.45	1,615.27	24.016	SF
EXIST HZ ENCORE 8C-12HZ - Wellbore #1 - Wellbore #	7,200.00	7,971.29	1,064.09	999.26	16.413	SF
EXIST HZ ENCORE 8C-12HZ - Wellbore #1 - Wellbore #	7,240.76	7,947.08	1,063.60	998.83	16.421	CC, ES
EXIST HZ MIRACLE 13C-12HZ - Wellbore #1 - Wellbore	6,980.90	11,892.00	2,223.49	2,077.29	15.208	CC, ES, SF
EXIST HZ MIRACLE 33N-12HZ - Wellbore #1 - Wellbore	6,900.00	11,657.00	1,812.30	1,673.09	13.019	SF
EXIST HZ MIRACLE 33N-12HZ - Wellbore #1 - Wellbore	6,914.70	11,657.00	1,812.14	1,672.96	13.019	CC, ES
EXIST HZ MIRACLE 40C-11HZ - ORIGINAL WELLBORE						Out of range
EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETR	7,235.03	13,628.00	150.22	33.48	1.287	Level 3, CC, ES
EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETR	7,250.00	13,628.00	151.12	33.49	1.285	Level 3, SF
EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore	7,179.99	13,558.00	298.44	98.83	1.495	Level 3, CC, ES, SF
EXIST HZ MIRACLE 9C-11HZ - Wellbore #1 - Wellbore #	7,283.98	13,682.00	861.51	662.22	4.323	CC, ES, SF
EXIST HZ PROWANT 18-1HZ - Wellbore #1 - Wellbore #	14,605.70	20,703.00	2,468.97	1,889.07	4.258	CC, ES
EXIST HZ PROWANT 18-1HZ - Wellbore #1 - Wellbore #	14,700.00	20,703.00	2,470.77	1,889.11	4.248	SF
EXIST VERT JEFFERS 2-1 - Wellbore #1 - Design #1						Out of range
EXIST VERT JEFFERS 2-2 - Wellbore #1 - Design #1						Out of range
EXIST VERT WICKED 1 - Wellbore #1 - Wellbore #1	15,602.20	7,105.20	1,478.36	1,401.46	19.223	CC, ES, SF

<b>Offset Design:</b>	SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1											<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>	16-OWSG (Rev2) MWD											<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>	<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside</b>		<b>Offset Wellbore Centre</b>		<b>Distance</b>			<b>Rule Assigned:</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
600.00	600.00	1,613.16	1,578.60	1.94	7.57	59.87	1,559.80	2,687.09	3,258.98	3,251.04	7.94	410.654	
700.00	700.00	1,691.00	1,652.78	2.29	8.05	59.93	1,544.91	2,668.81	3,229.03	3,220.44	8.58	376.139	
800.00	799.98	1,754.02	1,712.95	2.64	8.44	-103.22	1,532.82	2,654.52	3,200.16	3,190.99	9.16	349.207	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD										Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
900.00	899.84	1,824.61	1,780.56	2.97	8.87	-103.77	1,519.35	2,639.35	3,173.07	3,163.31	9.77	324.847	
930.56	930.31	1,848.94	1,803.89	3.07	9.01	-103.94	1,514.72	2,634.22	3,165.07	3,155.11	9.96	317.629	
1,000.00	999.53	1,975.79	1,925.23	3.31	9.79	-104.00	1,490.76	2,606.07	3,146.35	3,135.66	10.70	294.140	
1,100.00	1,099.20	2,051.88	1,997.95	3.66	10.26	-104.08	1,477.50	2,588.04	3,118.88	3,107.53	11.35	274.814	
1,200.00	1,198.88	2,164.34	2,105.54	4.02	10.96	-104.20	1,458.51	2,561.34	3,091.69	3,079.54	12.14	254.577	
1,300.00	1,298.56	2,277.05	2,212.92	4.38	11.68	-104.30	1,438.12	2,533.82	3,063.20	3,050.25	12.95	236.580	
1,400.00	1,398.23	2,385.53	2,316.31	4.75	12.37	-104.42	1,419.35	2,506.90	3,034.85	3,021.11	13.74	220.906	
1,500.00	1,497.91	2,538.35	2,461.22	5.12	13.38	-104.65	1,393.74	2,465.73	3,004.72	2,990.03	14.69	204.560	
1,600.00	1,597.58	2,585.00	2,505.38	5.49	13.69	-104.73	1,386.08	2,452.80	2,974.73	2,959.47	15.26	194.883	
1,700.00	1,697.26	2,647.31	2,564.64	5.86	14.09	-104.83	1,376.21	2,436.25	2,945.95	2,930.06	15.90	185.329	
1,800.00	1,796.94	2,715.51	2,629.95	6.23	14.52	-104.93	1,365.80	2,419.63	2,918.98	2,902.43	16.55	176.366	
1,900.00	1,896.61	2,843.40	2,752.16	6.61	15.32	-105.04	1,342.17	2,390.28	2,891.68	2,874.26	17.42	165.997	
2,000.00	1,996.29	2,946.00	2,849.89	6.99	15.98	-105.12	1,322.32	2,366.15	2,863.42	2,845.22	18.20	157.290	
2,100.00	2,095.97	3,010.75	2,911.68	7.37	16.39	-105.19	1,310.76	2,350.66	2,835.70	2,816.84	18.86	150.377	
2,200.00	2,195.64	3,146.47	3,041.38	7.75	17.24	-105.37	1,287.78	2,317.95	2,808.34	2,788.60	19.75	142.202	
2,300.00	2,295.32	3,211.00	3,102.86	8.12	17.66	-105.44	1,275.87	2,302.36	2,780.22	2,759.81	20.41	136.237	
2,400.00	2,394.99	3,275.32	3,164.35	8.51	18.06	-105.51	1,264.37	2,287.42	2,753.19	2,732.13	21.06	130.711	
2,500.00	2,494.67	3,411.90	3,295.27	8.89	18.91	-105.68	1,241.34	2,256.06	2,726.97	2,705.01	21.96	124.207	
2,600.00	2,594.35	3,513.45	3,392.11	9.27	19.55	-105.78	1,222.30	2,232.17	2,699.06	2,676.32	22.74	118.707	
2,700.00	2,694.02	3,583.37	3,458.90	9.65	19.99	-105.84	1,208.95	2,216.36	2,671.78	2,648.36	23.42	114.082	
2,800.00	2,793.70	3,656.00	3,528.54	10.03	20.44	-105.91	1,195.77	2,200.48	2,645.58	2,621.47	24.11	109.733	
2,900.00	2,893.38	3,851.07	3,714.37	10.41	21.70	-106.19	1,161.24	2,152.32	2,616.71	2,591.53	25.17	103.945	
3,000.00	2,993.05	3,945.41	3,803.86	10.80	22.33	-106.33	1,144.00	2,127.92	2,587.14	2,561.21	25.93	99.756	
3,100.00	3,092.73	4,007.00	3,862.32	11.18	22.74	-106.42	1,132.64	2,112.26	2,558.02	2,531.42	26.60	96.158	
3,200.00	3,192.41	4,061.39	3,914.21	11.56	23.08	-106.49	1,122.93	2,099.14	2,530.37	2,503.12	27.24	92.875	
3,300.00	3,292.08	4,142.25	3,991.87	11.94	23.58	-106.61	1,109.56	2,081.05	2,504.61	2,476.65	27.96	89.570	
3,400.00	3,391.76	4,309.64	4,151.61	12.33	24.65	-106.91	1,081.83	2,039.45	2,476.62	2,447.70	28.92	85.629	
3,500.00	3,491.43	4,428.01	4,264.17	12.71	25.43	-107.15	1,061.91	2,008.70	2,447.92	2,418.17	29.74	82.300	
3,600.00	3,591.11	4,522.67	4,353.82	13.09	26.06	-107.30	1,044.08	1,984.11	2,418.05	2,387.54	30.51	79.262	
3,700.00	3,690.79	4,591.05	4,418.76	13.48	26.51	-107.43	1,032.04	1,966.43	2,388.99	2,357.78	31.20	76.562	
3,800.00	3,790.46	4,654.29	4,479.08	13.86	26.92	-107.57	1,021.82	1,950.39	2,361.16	2,329.28	31.88	74.055	
3,900.00	3,890.14	4,722.00	4,543.97	14.25	27.34	-107.72	1,011.54	1,934.01	2,334.80	2,302.23	32.57	71.682	
4,000.00	3,989.82	4,778.31	4,598.17	14.63	27.67	-107.84	1,003.36	1,921.10	2,309.86	2,276.63	33.22	69.524	
4,100.00	4,089.49	4,841.07	4,658.79	15.01	28.04	-107.98	994.54	1,907.46	2,286.32	2,252.44	33.89	67.466	
4,200.00	4,189.17	4,898.00	4,713.99	15.40	28.36	-108.10	986.86	1,895.88	2,264.34	2,229.81	34.53	65.576	
4,300.00	4,288.84	4,952.03	4,766.63	15.78	28.64	-108.21	979.95	1,885.82	2,244.19	2,209.04	35.15	63.843	
4,400.00	4,388.52	4,987.00	4,800.83	16.17	28.82	-108.28	975.72	1,879.90	2,226.24	2,190.54	35.70	62.361	
4,500.00	4,488.20	5,046.46	4,859.25	16.55	29.10	-108.40	969.25	1,870.96	2,210.39	2,174.08	36.31	60.876	
4,600.00	4,587.87	5,095.95	4,908.12	16.94	29.32	-108.50	964.68	1,864.61	2,197.02	2,160.15	36.87	59.586	
4,700.00	4,687.55	5,164.00	4,975.53	17.32	29.60	-108.63	959.13	1,857.14	2,185.72	2,148.23	37.49	58.304	
4,800.00	4,787.23	5,218.16	5,029.30	17.71	29.80	-108.73	955.20	1,852.01	2,176.11	2,138.07	38.04	57.209	
4,900.00	4,886.90	5,277.63	5,088.43	18.09	30.01	-108.85	951.33	1,847.03	2,168.13	2,129.54	38.60	56.176	
5,000.00	4,986.58	5,338.00	5,148.60	18.48	30.22	-108.96	948.14	1,843.20	2,162.32	2,123.18	39.14	55.242	
5,100.00	5,086.26	5,390.16	5,200.66	18.86	30.38	-109.06	946.08	1,840.68	2,158.50	2,118.87	39.63	54.461	
5,200.00	5,185.93	5,451.43	5,261.85	19.25	30.55	-109.19	944.55	1,838.25	2,156.46	2,116.31	40.15	53.706	
5,258.21	5,243.96	5,485.73	5,296.14	19.47	30.64	-109.26	943.93	1,837.34	2,156.14	2,115.70	40.44	53.315 CC	
5,300.00	5,285.61	5,515.00	5,325.40	19.63	30.72	-109.32	943.51	1,836.85	2,156.32	2,115.65	40.67	53.019 ES	
5,400.00	5,385.28	5,593.87	5,404.27	20.02	30.91	-109.47	942.54	1,836.19	2,157.54	2,116.28	41.26	52.296	
5,500.00	5,484.96	5,682.14	5,492.53	20.40	31.11	-109.63	941.51	1,836.03	2,159.39	2,117.51	41.89	51.554	
5,600.00	5,584.64	5,797.48	5,607.86	20.79	31.39	-109.85	940.68	1,835.40	2,161.25	2,118.59	42.66	50.660	
5,700.00	5,684.31	5,907.91	5,718.27	21.17	31.67	-110.09	940.30	1,833.48	2,162.40	2,118.98	43.42	49.801	
5,800.00	5,783.99	6,011.26	5,821.60	21.56	31.94	-110.32	939.81	1,831.37	2,163.28	2,119.14	44.14	49.006	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,900.00	5,883.67	6,111.22	5,921.53	21.94	32.20	-110.55	939.36	1,829.21	2,164.10	2,119.25	44.85	48.251		
6,000.00	5,983.34	6,210.31	6,020.60	22.33	32.46	-110.77	938.74	1,827.22	2,164.97	2,119.42	45.55	47.525		
6,100.00	6,083.02	6,304.82	6,115.10	22.71	32.71	-110.97	938.15	1,825.45	2,165.99	2,119.75	46.23	46.848		
6,200.00	6,182.69	6,404.88	6,215.14	23.10	32.98	-111.19	937.59	1,823.72	2,167.18	2,120.24	46.94	46.165		
6,300.00	6,282.37	6,508.38	6,318.62	23.48	33.26	-111.41	937.03	1,821.72	2,168.25	2,120.58	47.67	45.481		
6,400.00	6,382.05	6,600.91	6,411.13	23.87	33.51	-111.61	936.56	1,820.06	2,169.49	2,121.14	48.35	44.874		
6,500.00	6,481.72	6,699.18	6,509.39	24.25	33.77	-111.82	936.00	1,818.57	2,170.93	2,121.88	49.05	44.260		
6,600.00	6,581.40	6,801.96	6,612.15	24.64	34.05	-112.04	935.41	1,817.04	2,172.42	2,122.64	49.78	43.643		
6,688.27	6,669.38	6,890.82	6,701.00	24.98	34.30	-112.22	934.80	1,815.52	2,173.55	2,123.14	50.41	43.117		
6,700.00	6,681.08	6,901.72	6,711.90	25.02	34.33	-126.96	934.72	1,815.35	2,173.81	2,123.32	50.49	43.054		
6,750.00	6,730.87	6,948.89	6,759.06	25.21	34.45	-176.89	934.40	1,814.66	2,177.03	2,126.21	50.82	42.839		
6,800.00	6,780.30	6,998.40	6,808.57	25.38	34.59	164.54	934.06	1,813.96	2,183.63	2,132.49	51.14	42.696		
6,850.00	6,828.99	7,055.22	6,865.38	25.54	34.75	156.47	933.66	1,813.10	2,193.51	2,142.01	51.49	42.597		
6,900.00	6,876.56	7,123.13	6,933.27	25.69	34.94	151.88	932.99	1,811.59	2,206.27	2,154.38	51.89	42.517 SF		
6,950.00	6,922.66	7,150.40	6,960.54	25.83	35.02	148.51	932.77	1,811.01	2,222.26	2,170.19	52.06	42.683		
7,000.00	6,966.93	7,180.58	6,990.71	25.96	35.10	145.70	932.63	1,810.50	2,241.62	2,189.38	52.24	42.911		
7,050.00	7,009.04	7,211.64	7,021.76	26.08	35.19	143.09	932.61	1,810.12	2,264.22	2,211.81	52.41	43.202		
7,100.00	7,048.66	7,251.40	7,061.52	26.19	35.29	140.59	932.61	1,809.73	2,289.72	2,237.10	52.62	43.512		
7,150.00	7,085.51	7,288.37	7,098.49	26.30	35.39	137.94	932.57	1,809.40	2,317.89	2,265.08	52.82	43.886		
7,200.00	7,119.28	7,323.17	7,133.29	26.39	35.49	135.05	932.49	1,809.11	2,348.56	2,295.56	53.00	44.313		
7,250.00	7,149.73	7,354.69	7,164.81	26.49	35.57	131.80	932.38	1,808.86	2,381.53	2,328.36	53.17	44.793		
7,300.00	7,176.63	7,382.54	7,192.66	26.60	35.65	128.06	932.25	1,808.67	2,416.60	2,363.28	53.32	45.323		
7,350.00	7,199.77	7,406.74	7,216.86	26.76	35.71	123.74	932.11	1,808.51	2,453.53	2,400.07	53.46	45.895		
7,400.00	7,218.98	7,426.89	7,237.01	26.99	35.77	118.72	931.97	1,808.38	2,492.08	2,438.49	53.59	46.505		
7,450.00	7,234.10	7,442.82	7,252.94	27.33	35.81	112.93	931.86	1,808.27	2,531.99	2,478.28	53.70	47.148		
7,500.00	7,245.03	7,454.42	7,264.53	27.75	35.84	106.36	931.77	1,808.20	2,572.97	2,519.16	53.81	47.819		
7,550.00	7,251.68	7,461.59	7,271.70	28.25	35.86	99.08	931.71	1,808.16	2,614.72	2,560.82	53.90	48.511		
7,600.00	7,254.00	7,464.30	7,274.41	28.79	35.87	91.29	931.69	1,808.14	2,656.94	2,602.95	53.98	49.220		
7,601.67	7,254.00	7,464.31	7,274.42	28.81	35.87	91.03	931.69	1,808.14	2,658.35	2,604.36	53.98	49.245		
7,700.00	7,254.00	7,464.93	7,275.04	30.03	35.87	91.06	931.68	1,808.14	2,742.12	2,687.97	54.15	50.636		
7,800.00	7,254.00	7,465.56	7,275.67	31.47	35.87	91.08	931.68	1,808.14	2,828.28	2,773.91	54.37	52.020		
7,900.00	7,254.00	7,466.18	7,276.30	33.06	35.87	91.11	931.67	1,808.13	2,915.31	2,860.70	54.62	53.379		
8,000.00	7,254.00	7,466.81	7,276.92	34.80	35.88	91.13	931.66	1,808.13	3,003.16	2,948.27	54.89	54.715		
8,100.00	7,254.00	7,467.43	7,277.55	36.66	35.88	91.16	931.66	1,808.12	3,091.75	3,036.57	55.18	56.032		
8,200.00	7,254.00	7,468.06	7,278.17	38.62	35.88	91.18	931.65	1,808.12	3,181.01	3,125.53	55.48	57.335		
8,300.00	7,254.00	7,468.68	7,278.79	40.66	35.88	91.21	931.65	1,808.12	3,270.89	3,215.10	55.79	58.625		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1														Offset Site Error:	0.00 usft	
Survey Program: 16-OWSG (Rev2) MWD Reference Offset											Rule Assigned:		Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
800.00	799.98	2,011.76	1,953.81	2.64	10.26	-108.10	1,741.33	2,510.40	3,267.73	3,256.82	10.91	299.551				
900.00	899.84	2,106.48	2,041.09	2.97	10.99	-109.18	1,735.80	2,474.02	3,233.92	3,222.22	11.70	276.475				
930.56	930.31	2,138.52	2,070.60	3.07	11.24	-109.53	1,733.81	2,461.73	3,223.77	3,211.82	11.95	269.713				
1,000.00	999.53	2,180.61	2,109.43	3.31	11.56	-109.73	1,731.21	2,445.69	3,201.07	3,188.66	12.41	257.910				
1,100.00	1,099.20	2,247.59	2,171.42	3.66	12.08	-110.05	1,727.30	2,420.62	3,169.24	3,156.12	13.12	241.634				
1,200.00	1,198.88	2,387.86	2,300.65	4.02	13.18	-110.79	1,721.90	2,366.37	3,137.88	3,123.68	14.20	221.033				
1,300.00	1,298.56	2,534.69	2,433.51	4.38	14.44	-111.69	1,718.58	2,303.96	3,103.98	3,088.59	15.38	201.777				
1,400.00	1,398.23	2,585.00	2,478.89	4.75	14.88	-112.01	1,717.59	2,282.26	3,070.43	3,054.33	16.10	190.752				
1,500.00	1,497.91	2,641.57	2,530.23	5.12	15.36	-112.37	1,716.56	2,258.54	3,038.20	3,021.35	16.85	180.353				
1,600.00	1,597.58	2,700.59	2,584.31	5.49	15.86	-112.74	1,715.68	2,234.92	3,007.70	2,990.08	17.62	170.723				
1,700.00	1,697.26	2,827.19	2,699.70	5.86	16.92	-113.58	1,714.97	2,182.86	2,977.25	2,958.49	18.76	158.676				
1,800.00	1,796.94	2,913.39	2,778.28	6.23	17.65	-114.15	1,713.39	2,147.45	2,946.48	2,926.78	19.70	149.589				
1,900.00	1,896.61	2,991.04	2,849.65	6.61	18.29	-114.63	1,710.55	2,117.01	2,916.44	2,895.86	20.58	141.730				
2,000.00	1,996.29	3,081.45	2,932.95	6.99	19.02	-115.18	1,707.07	2,082.01	2,886.97	2,865.45	21.52	134.166				
2,100.00	2,095.97	3,179.33	3,023.12	7.37	19.81	-115.79	1,702.86	2,044.19	2,857.56	2,835.06	22.51	126.974				
2,200.00	2,195.64	3,279.28	3,114.64	7.75	20.65	-116.47	1,700.13	2,004.12	2,828.27	2,804.74	23.54	120.157				
2,300.00	2,295.32	3,341.56	3,171.62	8.12	21.16	-116.91	1,698.69	1,979.01	2,799.47	2,775.08	24.39	114.776				
2,400.00	2,394.99	3,399.10	3,224.82	8.51	21.63	-117.29	1,696.94	1,957.15	2,772.21	2,746.99	25.22	109.933				
2,500.00	2,494.67	3,500.35	3,318.71	8.89	22.42	-117.96	1,693.58	1,919.41	2,745.68	2,719.43	26.25	104.599				
2,600.00	2,594.35	3,608.59	3,418.93	9.27	23.28	-118.68	1,689.17	1,878.76	2,718.76	2,691.44	27.32	99.501				
2,700.00	2,694.02	3,699.53	3,502.90	9.65	24.01	-119.31	1,686.15	1,843.97	2,692.16	2,663.82	28.34	95.012				
2,800.00	2,793.70	3,799.49	3,595.33	10.03	24.81	-120.01	1,682.06	1,806.14	2,665.70	2,636.31	29.39	90.689				
2,900.00	2,893.38	3,909.23	3,696.66	10.41	25.69	-120.79	1,677.22	1,764.27	2,639.19	2,608.68	30.51	86.510				
3,000.00	2,993.05	4,096.00	3,867.32	10.80	27.26	-122.16	1,665.12	1,689.41	2,609.56	2,577.57	31.99	81.573				
3,100.00	3,092.73	4,155.91	3,921.87	11.18	27.77	-122.61	1,660.87	1,665.03	2,580.34	2,547.44	32.91	78.415				
3,200.00	3,192.41	4,205.75	3,967.68	11.56	28.18	-122.98	1,657.67	1,645.65	2,553.05	2,519.27	33.78	75.579				
3,300.00	3,292.08	4,277.00	4,033.28	11.94	28.77	-123.54	1,654.78	1,618.00	2,527.68	2,492.92	34.77	72.707				
3,400.00	3,391.76	4,326.78	4,079.00	12.33	29.18	-123.95	1,653.90	1,598.35	2,503.71	2,468.03	35.68	70.180				
3,500.00	3,491.43	4,438.98	4,181.28	12.71	30.14	-124.96	1,653.17	1,552.23	2,480.16	2,443.19	36.97	67.087				
3,600.00	3,591.11	4,560.72	4,291.57	13.09	31.22	-126.09	1,651.43	1,500.71	2,455.72	2,417.37	38.35	64.035				
3,700.00	3,690.79	4,633.00	4,357.34	13.48	31.85	-126.75	1,649.85	1,470.79	2,432.10	2,392.66	39.44	61.666				
3,800.00	3,790.46	4,702.34	4,421.07	13.86	32.42	-127.36	1,647.76	1,443.54	2,409.74	2,369.25	40.48	59.525				
3,900.00	3,890.14	4,772.55	4,486.26	14.25	32.97	-127.94	1,645.10	1,417.61	2,388.76	2,347.25	41.51	57.553				
4,000.00	3,989.82	4,843.66	4,552.78	14.63	33.50	-128.51	1,642.11	1,392.65	2,369.03	2,326.52	42.51	55.729				
4,100.00	4,089.49	4,957.51	4,660.06	15.01	34.32	-129.37	1,636.34	1,354.99	2,350.40	2,306.72	43.68	53.807				
4,200.00	4,189.17	5,037.20	4,734.84	15.40	34.89	-129.99	1,631.73	1,327.83	2,330.96	2,286.25	44.71	52.137				
4,300.00	4,288.84	5,076.00	4,771.51	15.78	35.17	-130.28	1,629.55	1,315.35	2,313.44	2,267.90	45.55	50.794				
4,400.00	4,388.52	5,132.87	4,825.75	16.17	35.53	-130.69	1,626.68	1,298.53	2,298.06	2,251.64	46.42	49.509				
4,500.00	4,488.20	5,164.00	4,855.72	16.55	35.72	-130.89	1,625.34	1,290.20	2,285.31	2,238.16	47.16	48.463				
4,600.00	4,587.87	5,252.00	4,940.97	16.94	36.21	-131.45	1,622.51	1,268.58	2,274.54	2,226.44	48.10	47.286				
4,700.00	4,687.55	5,296.18	4,984.00	17.32	36.44	-131.72	1,621.53	1,258.61	2,265.59	2,216.76	48.83	46.394				
4,800.00	4,787.23	5,358.91	5,045.37	17.71	36.75	-132.08	1,620.36	1,245.70	2,258.52	2,208.90	49.62	45.519				
4,900.00	4,886.90	5,428.00	5,113.32	18.09	37.06	-132.44	1,619.10	1,233.29	2,253.03	2,202.64	50.39	44.711				
5,000.00	4,986.58	5,495.23	5,179.72	18.48	37.33	-132.75	1,617.90	1,222.86	2,249.01	2,197.89	51.11	44.000				
5,100.00	5,086.26	5,569.57	5,253.39	18.86	37.61	-133.07	1,616.66	1,212.93	2,246.31	2,194.48	51.83	43.338				
5,200.00	5,185.93	5,650.25	5,333.54	19.25	37.88	-133.37	1,615.24	1,203.81	2,244.67	2,192.12	52.54	42.720				
5,300.00	5,285.61	5,741.19	5,424.06	19.63	38.17	-133.67	1,613.26	1,195.33	2,243.72	2,190.47	53.25	42.132				
5,386.69	5,372.02	5,806.64	5,489.30	19.96	38.36	-133.85	1,611.30	1,190.53	2,243.25	2,189.45	53.80	41.697 CC				
5,400.00	5,385.28	5,813.45	5,496.10	20.02	38.37	-133.87	1,611.11	1,190.13	2,243.29	2,189.42	53.87	41.644 ES				
5,500.00	5,484.96	5,874.00	5,556.58	20.40	38.53	-134.00	1,609.89	1,187.53	2,244.88	2,190.46	54.41	41.256				
5,600.00	5,584.64	5,947.47	5,630.02	20.79	38.69	-134.14	1,608.90	1,185.69	2,247.99	2,193.02	54.97	40.897				
5,700.00	5,684.31	6,041.46	5,723.98	21.17	38.88	-134.30	1,607.68	1,183.88	2,251.55	2,195.98	55.57	40.515				

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,800.00	5,783.99	6,140.00	5,822.50	21.56	39.09	-134.47	1,606.38	1,182.28	2,255.25	2,199.06	56.19	40.136	
5,900.00	5,883.67	6,231.50	5,913.98	21.94	39.28	-134.62	1,605.41	1,180.75	2,259.17	2,202.38	56.79	39.781	
6,000.00	5,983.34	6,330.53	6,013.00	22.33	39.49	-134.79	1,604.41	1,179.18	2,263.20	2,205.79	57.41	39.421	
6,100.00	6,083.02	6,407.00	6,089.46	22.71	39.64	-134.90	1,603.89	1,178.89	2,268.06	2,210.12	57.94	39.144	
6,200.00	6,182.69	6,506.56	6,189.02	23.10	39.81	-135.03	1,603.47	1,179.14	2,273.49	2,214.96	58.53	38.841	
6,300.00	6,282.37	6,616.47	6,298.93	23.48	40.02	-135.18	1,602.63	1,179.07	2,278.49	2,219.32	59.17	38.510	
6,400.00	6,382.05	6,720.67	6,403.12	23.87	40.23	-135.33	1,601.65	1,178.65	2,283.19	2,223.40	59.79	38.187	
6,500.00	6,481.72	6,820.88	6,503.32	24.25	40.44	-135.48	1,600.86	1,177.72	2,287.80	2,227.38	60.41	37.868	
6,600.00	6,581.40	6,922.03	6,604.46	24.64	40.66	-135.65	1,600.20	1,176.49	2,292.41	2,231.36	61.05	37.549	
6,688.27	6,669.38	7,013.43	6,695.85	24.98	40.87	-135.80	1,599.57	1,175.20	2,296.40	2,234.77	61.63	37.264	
6,700.00	6,681.08	7,025.61	6,708.03	25.02	40.89	-150.57	1,599.50	1,174.98	2,296.97	2,235.27	61.70	37.227	
6,750.00	6,730.87	7,070.67	6,753.08	25.21	41.00	159.41	1,599.28	1,174.17	2,300.70	2,238.72	61.98	37.119	
6,800.00	6,780.30	7,115.13	6,797.54	25.38	41.10	140.79	1,599.16	1,173.39	2,306.50	2,244.27	62.22	37.067	
6,850.00	6,828.99	7,166.35	6,848.75	25.54	41.22	132.73	1,599.02	1,172.57	2,314.27	2,251.81	62.46	37.052 SF	
6,900.00	6,876.56	7,215.66	6,898.06	25.69	41.34	128.16	1,598.76	1,171.91	2,323.91	2,261.25	62.66	37.088	
6,950.00	6,922.66	7,261.22	6,943.60	25.83	41.44	125.03	1,598.48	1,171.37	2,335.45	2,272.63	62.82	37.180	
7,000.00	6,966.93	7,305.15	6,987.54	25.96	41.54	122.59	1,598.20	1,170.90	2,348.88	2,285.94	62.94	37.319	
7,050.00	7,009.04	7,347.33	7,029.71	26.08	41.63	120.49	1,597.88	1,170.57	2,364.17	2,301.13	63.04	37.505	
7,100.00	7,048.66	7,386.78	7,069.17	26.19	41.72	118.51	1,597.52	1,170.38	2,381.29	2,318.19	63.11	37.734	
7,150.00	7,085.51	7,422.06	7,104.44	26.30	41.79	116.52	1,597.19	1,170.26	2,400.23	2,337.08	63.15	38.009	
7,200.00	7,119.28	7,454.39	7,136.77	26.39	41.86	114.46	1,596.90	1,170.16	2,420.92	2,357.75	63.18	38.320	
7,250.00	7,149.73	7,483.15	7,165.53	26.49	41.92	112.26	1,596.66	1,170.08	2,443.31	2,380.12	63.19	38.665	
7,300.00	7,176.63	7,507.97	7,190.35	26.60	41.97	109.85	1,596.48	1,170.02	2,467.31	2,404.11	63.20	39.039	
7,350.00	7,199.77	7,529.32	7,211.70	26.76	42.02	107.23	1,596.34	1,169.97	2,492.80	2,429.59	63.21	39.438	
7,400.00	7,218.98	7,547.06	7,229.44	26.99	42.06	104.36	1,596.24	1,169.93	2,519.64	2,456.42	63.22	39.856	
7,450.00	7,234.10	7,563.00	7,245.38	27.33	42.09	101.28	1,596.15	1,169.89	2,547.68	2,484.44	63.24	40.286	
7,500.00	7,245.03	7,572.31	7,254.69	27.75	42.11	97.89	1,596.11	1,169.87	2,576.72	2,513.46	63.26	40.733	
7,550.00	7,251.68	7,579.41	7,261.79	28.25	42.13	94.31	1,596.08	1,169.85	2,606.57	2,543.29	63.29	41.186	
7,600.00	7,254.00	7,582.00	7,264.37	28.79	42.13	90.52	1,596.07	1,169.84	2,637.02	2,573.70	63.32	41.645	
7,601.67	7,254.00	7,582.01	7,264.38	28.81	42.13	90.40	1,596.07	1,169.84	2,638.04	2,574.72	63.32	41.661	
7,700.00	7,254.00	7,582.31	7,264.69	30.03	42.13	90.40	1,596.06	1,169.84	2,699.49	2,636.05	63.43	42.556	
7,800.00	7,254.00	7,582.63	7,265.01	31.47	42.13	90.41	1,596.06	1,169.84	2,764.17	2,700.53	63.63	43.439	
7,900.00	7,254.00	7,582.95	7,265.33	33.06	42.13	90.42	1,596.06	1,169.84	2,830.90	2,767.00	63.90	44.304	
8,000.00	7,254.00	7,583.27	7,265.65	34.80	42.13	90.43	1,596.06	1,169.84	2,899.54	2,835.33	64.21	45.155	
8,100.00	7,254.00	7,583.60	7,265.97	36.66	42.14	90.44	1,596.06	1,169.84	2,969.97	2,905.40	64.57	45.998	
8,200.00	7,254.00	7,583.92	7,266.30	38.62	42.14	90.45	1,596.06	1,169.84	3,042.05	2,977.10	64.95	46.837	
8,300.00	7,254.00	7,584.25	7,266.63	40.66	42.14	90.46	1,596.06	1,169.83	3,115.68	3,050.32	65.35	47.676	
8,400.00	7,254.00	7,584.59	7,266.96	42.78	42.14	90.47	1,596.05	1,169.83	3,190.74	3,124.97	65.77	48.517	
8,500.00	7,254.00	7,584.92	7,267.30	44.97	42.14	90.48	1,596.05	1,169.83	3,267.13	3,200.95	66.19	49.363	

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1												Offset Site Error:	
Survey Program: 16-OWSG (Rev2) MWD										Rule Assigned:		Offset Well Error:	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
300.00	300.00	1,861.00	1,775.03	0.86	10.60	61.03	1,413.53	2,553.14	3,272.17	3,263.71	8.46	386.873	
400.00	400.00	2,014.66	1,910.37	1.22	12.00	61.36	1,364.90	2,499.01	3,225.58	3,216.15	9.43	342.186	
500.00	500.00	2,072.53	1,961.19	1.58	12.52	61.49	1,346.24	2,478.58	3,178.91	3,168.94	9.97	318.986	
600.00	600.00	2,131.00	2,012.94	1.94	13.05	61.63	1,327.59	2,458.75	3,133.44	3,122.91	10.54	297.387	
700.00	700.00	2,179.59	2,056.17	2.29	13.48	61.76	1,312.20	2,442.76	3,088.97	3,077.89	11.08	278.746	
800.00	799.98	2,243.56	2,113.25	2.64	14.04	-101.66	1,292.05	2,422.08	3,045.57	3,033.87	11.70	260.403	
900.00	899.84	2,311.00	2,173.77	2.97	14.62	-102.47	1,271.39	2,400.67	3,003.71	2,991.39	12.32	243.764	
930.56	930.31	2,311.00	2,173.77	3.07	14.62	-102.74	1,271.39	2,400.67	2,991.25	2,978.83	12.42	240.818	
1,000.00	999.53	2,343.16	2,202.84	3.31	14.89	-102.72	1,261.91	2,390.70	2,963.56	2,950.76	12.80	231.506	
1,100.00	1,099.20	2,401.00	2,255.69	3.66	15.36	-102.70	1,245.88	2,373.53	2,925.30	2,911.89	13.41	218.124	
1,200.00	1,198.88	2,628.01	2,461.88	4.02	17.26	-102.73	1,186.04	2,299.97	2,886.67	2,871.94	14.73	195.946	
1,300.00	1,298.56	2,707.43	2,532.92	4.38	17.96	-102.77	1,164.95	2,271.40	2,843.88	2,828.44	15.44	184.180	
1,400.00	1,398.23	2,761.00	2,581.22	4.75	18.42	-102.78	1,150.49	2,253.31	2,802.58	2,786.53	16.05	174.568	
1,500.00	1,497.91	2,828.38	2,642.26	5.12	18.99	-102.78	1,132.26	2,231.34	2,762.33	2,745.60	16.73	165.109	
1,600.00	1,597.58	2,965.91	2,766.54	5.49	20.17	-102.83	1,096.39	2,184.64	2,721.50	2,703.82	17.68	153.933	
1,700.00	1,697.26	3,028.00	2,822.43	5.86	20.71	-102.87	1,080.47	2,162.78	2,679.94	2,661.60	18.34	146.138	
1,800.00	1,796.94	3,117.00	2,903.02	6.23	21.47	-102.94	1,058.64	2,131.98	2,639.30	2,620.21	19.10	138.217	
1,900.00	1,896.61	3,167.50	2,949.07	6.61	21.89	-102.99	1,046.73	2,115.01	2,599.76	2,580.04	19.71	131.880	
2,000.00	1,996.29	3,286.13	3,057.13	6.99	22.88	-103.06	1,017.47	2,075.80	2,560.49	2,539.90	20.58	124.410	
2,100.00	2,095.97	3,364.98	3,128.74	7.37	23.54	-103.11	997.57	2,049.46	2,520.56	2,499.24	21.31	118.270	
2,200.00	2,195.64	3,436.81	3,194.14	7.75	24.14	-103.13	979.02	2,026.25	2,481.28	2,459.26	22.02	112.661	
2,300.00	2,295.32	3,517.66	3,267.89	8.12	24.81	-103.12	957.16	2,001.36	2,442.70	2,419.92	22.78	107.253	
2,400.00	2,394.99	3,670.00	3,406.37	8.51	26.08	-103.16	917.00	1,952.22	2,403.25	2,379.49	23.77	101.118	
2,500.00	2,494.67	3,739.00	3,468.93	8.89	26.67	-103.19	899.20	1,929.19	2,363.03	2,338.55	24.48	96.542	
2,600.00	2,594.35	3,856.55	3,575.60	9.27	27.67	-103.25	869.03	1,890.08	2,323.10	2,297.76	25.34	91.682	
2,700.00	2,694.02	3,982.97	3,689.13	9.65	28.78	-103.33	835.65	1,845.62	2,280.86	2,254.64	26.22	86.975	
2,800.00	2,793.70	4,100.43	3,794.09	10.03	29.83	-103.37	803.03	1,804.20	2,238.03	2,210.94	27.09	82.625	
2,900.00	2,893.38	4,181.00	3,865.96	10.41	30.56	-103.38	779.91	1,776.06	2,194.99	2,167.14	27.85	78.808	
3,000.00	2,993.05	4,235.33	3,914.64	10.80	31.04	-103.37	764.16	1,757.78	2,152.85	2,124.30	28.55	75.405	
3,100.00	3,092.73	4,335.86	4,005.03	11.18	31.92	-103.32	734.66	1,725.15	2,111.68	2,082.30	29.38	71.868	
3,200.00	3,192.41	4,421.29	4,081.45	11.56	32.67	-103.26	708.66	1,697.15	2,069.65	2,039.47	30.18	68.579	
3,300.00	3,292.08	4,526.74	4,176.04	11.94	33.60	-103.21	677.66	1,662.39	2,028.00	1,996.98	31.02	65.373	
3,400.00	3,391.76	4,625.49	4,264.38	12.33	34.49	-103.23	649.92	1,628.06	1,985.44	1,953.60	31.83	62.369	
3,500.00	3,491.43	4,750.45	4,375.30	12.71	35.63	-103.20	612.76	1,584.18	1,941.61	1,908.90	32.71	59.360	
3,600.00	3,591.11	4,848.16	4,461.58	13.09	36.54	-103.10	581.58	1,550.53	1,897.36	1,863.82	33.54	56.564	
3,700.00	3,690.79	4,944.35	4,546.13	13.48	37.44	-103.01	550.68	1,516.65	1,852.29	1,817.92	34.37	53.888	
3,800.00	3,790.46	5,060.31	4,648.29	13.86	38.54	-103.04	516.94	1,473.41	1,807.11	1,771.91	35.20	51.344	
3,900.00	3,890.14	5,144.32	4,721.97	14.25	39.35	-103.14	493.91	1,440.27	1,760.80	1,724.84	35.96	48.959	
4,000.00	3,989.82	5,199.04	4,770.27	14.63	39.85	-103.24	479.84	1,418.75	1,715.51	1,678.80	36.71	46.735	
4,100.00	4,089.49	5,247.00	4,813.13	15.01	40.30	-103.33	468.21	1,400.64	1,672.30	1,634.86	37.44	44.667	
4,200.00	4,189.17	5,284.53	4,847.14	15.40	40.60	-103.41	459.59	1,387.31	1,631.72	1,593.58	38.14	42.777	
4,300.00	4,288.84	5,337.00	4,895.55	15.78	41.03	-103.52	448.31	1,370.53	1,594.44	1,555.59	38.85	41.039	
4,400.00	4,388.52	5,375.80	4,931.77	16.17	41.31	-103.59	440.27	1,359.19	1,559.78	1,520.27	39.52	39.470	
4,500.00	4,488.20	5,444.27	4,996.02	16.55	41.80	-103.68	425.90	1,340.38	1,527.17	1,486.94	40.23	37.964	
4,600.00	4,587.87	5,514.00	5,061.75	16.94	42.29	-103.78	411.67	1,321.95	1,495.86	1,454.93	40.93	36.546	
4,700.00	4,687.55	5,574.54	5,119.21	17.32	42.68	-103.88	400.08	1,306.84	1,466.51	1,424.92	41.59	35.259	
4,800.00	4,787.23	5,640.68	5,182.56	17.71	43.09	-104.00	388.46	1,291.78	1,439.68	1,397.43	42.25	34.074	
4,900.00	4,886.90	5,693.00	5,232.84	18.09	43.41	-104.10	379.66	1,280.32	1,414.57	1,371.73	42.84	33.019	
5,000.00	4,986.58	5,782.00	5,319.09	18.48	43.89	-104.28	366.26	1,262.99	1,391.98	1,348.44	43.54	31.970	
5,100.00	5,086.26	5,830.76	5,366.71	18.86	44.13	-104.39	359.81	1,254.74	1,371.94	1,327.89	44.05	31.142	
5,200.00	5,185.93	5,907.33	5,441.71	19.25	44.49	-104.58	350.47	1,242.47	1,353.83	1,309.17	44.66	30.313	
5,300.00	5,285.61	5,982.42	5,515.50	19.63	44.82	-104.81	342.76	1,230.91	1,337.32	1,292.08	45.24	29.561	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1														Offset Site Error: 0.00 usft			
Survey Program: Reference										16-OWSG (Rev2) MWD Offset				Rule Assigned:		Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning				
				Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)							
5,400.00	5,385.28	6,048.00	5,580.17	20.02	45.10	-105.03	336.91	1,221.72	1,322.80	1,277.06	45.74	28.919					
5,500.00	5,484.96	6,136.00	5,667.23	20.40	45.43	-105.32	329.94	1,210.92	1,310.23	1,263.88	46.35	28.266					
5,600.00	5,584.64	6,201.55	5,732.25	20.79	45.66	-105.55	325.59	1,203.85	1,299.54	1,252.73	46.81	27.763					
5,700.00	5,684.31	6,279.53	5,809.77	21.17	45.92	-105.86	321.66	1,196.33	1,290.82	1,243.50	47.32	27.280					
5,800.00	5,783.99	6,355.68	5,885.57	21.56	46.14	-106.17	318.77	1,189.76	1,283.73	1,235.93	47.80	26.859					
5,900.00	5,883.67	6,430.88	5,960.56	21.94	46.35	-106.49	316.84	1,184.48	1,278.67	1,230.43	48.25	26.503					
6,000.00	5,983.34	6,510.13	6,039.67	22.33	46.55	-106.82	315.39	1,180.08	1,275.34	1,226.62	48.72	26.179					
6,100.00	6,083.02	6,588.72	6,118.19	22.71	46.73	-107.14	314.57	1,176.91	1,273.75	1,224.58	49.17	25.907					
6,200.00	6,182.69	6,680.26	6,209.69	23.10	46.92	-107.51	314.14	1,174.05	1,273.30	1,223.57	49.72	25.607					
6,211.16	6,193.82	6,690.27	6,219.70	23.14	46.94	-107.55	314.10	1,173.77	1,273.29	1,223.51	49.78	25.576	CC				
6,300.00	6,282.37	6,770.82	6,300.22	23.48	47.11	-107.87	313.89	1,171.88	1,273.62	1,223.34	50.28	25.333	ES				
6,400.00	6,382.05	6,866.24	6,395.63	23.87	47.30	-108.24	313.65	1,170.12	1,274.47	1,223.60	50.87	25.052					
6,500.00	6,481.72	6,959.81	6,489.19	24.25	47.48	-108.60	313.75	1,168.64	1,275.80	1,224.34	51.45	24.794					
6,600.00	6,581.40	7,054.47	6,583.84	24.64	47.66	-108.96	314.02	1,167.58	1,277.65	1,225.60	52.05	24.548					
6,688.27	6,669.38	7,140.44	6,669.81	24.98	47.82	-109.28	314.15	1,166.94	1,279.53	1,226.93	52.60	24.327					
6,700.00	6,681.08	7,151.84	6,681.21	25.02	47.84	-124.04	314.17	1,166.87	1,279.89	1,227.22	52.67	24.300					
6,750.00	6,730.87	7,201.00	6,730.37	25.21	47.93	-174.03	314.24	1,166.59	1,283.63	1,230.65	52.98	24.229					
6,800.00	6,780.30	7,252.67	6,782.04	25.38	48.03	167.39	314.34	1,166.26	1,290.83	1,237.52	53.30	24.216	SF				
6,850.00	6,828.99	7,303.10	6,832.46	25.54	48.13	159.33	314.44	1,165.79	1,301.36	1,247.74	53.61	24.272					
6,900.00	6,876.56	7,348.50	6,877.86	25.69	48.21	154.72	314.55	1,165.39	1,315.28	1,261.41	53.88	24.413					
6,950.00	6,922.66	7,392.93	6,922.29	25.83	48.30	151.52	314.66	1,165.09	1,332.58	1,278.45	54.13	24.617					
7,000.00	6,966.93	7,436.84	6,966.20	25.96	48.38	148.96	314.74	1,164.85	1,353.12	1,298.73	54.39	24.878					
7,050.00	7,009.04	7,477.79	7,007.15	26.08	48.46	146.65	314.76	1,164.69	1,376.78	1,322.15	54.63	25.201					
7,100.00	7,048.66	7,512.98	7,042.34	26.19	48.52	144.30	314.82	1,164.62	1,403.50	1,348.67	54.83	25.598					
7,150.00	7,085.51	7,545.58	7,074.94	26.30	48.58	141.80	314.96	1,164.62	1,433.16	1,378.14	55.02	26.048					
7,200.00	7,119.28	7,575.57	7,104.93	26.39	48.63	139.00	315.17	1,164.67	1,465.56	1,410.36	55.21	26.547					
7,250.00	7,149.73	7,602.70	7,132.05	26.49	48.68	135.77	315.40	1,164.76	1,500.47	1,445.08	55.39	27.090					
7,300.00	7,176.63	7,626.52	7,155.88	26.60	48.71	131.94	315.64	1,164.87	1,537.65	1,482.08	55.57	27.671					
7,350.00	7,199.77	7,650.00	7,179.35	26.76	48.75	127.47	315.91	1,165.01	1,576.84	1,521.06	55.77	28.272					
7,400.00	7,218.98	7,666.47	7,195.83	26.99	48.78	121.92	316.11	1,165.11	1,617.72	1,561.78	55.94	28.916					
7,450.00	7,234.10	7,682.39	7,211.74	27.33	48.80	115.42	316.31	1,165.20	1,660.00	1,603.86	56.14	29.569					
7,500.00	7,245.03	7,693.86	7,223.21	27.75	48.82	107.71	316.45	1,165.26	1,703.36	1,647.04	56.32	30.242					
7,550.00	7,251.68	7,700.77	7,230.12	28.25	48.83	98.84	316.53	1,165.29	1,747.51	1,691.01	56.50	30.931					
7,600.00	7,254.00	7,703.04	7,232.39	28.79	48.84	89.15	316.56	1,165.30	1,792.09	1,735.43	56.66	31.631					
7,601.67	7,254.00	7,703.03	7,232.38	28.81	48.84	88.82	316.56	1,165.30	1,793.58	1,736.92	56.66	31.654					
7,700.00	7,254.00	7,702.57	7,231.92	30.03	48.84	88.78	316.55	1,165.30	1,882.00	1,825.03	56.97	33.032					
7,800.00	7,254.00	7,702.10	7,231.45	31.47	48.84	88.75	316.55	1,165.29	1,972.88	1,915.57	57.31	34.426					
7,900.00	7,254.00	7,701.62	7,230.97	33.06	48.83	88.71	316.54	1,165.29	2,064.60	2,006.96	57.65	35.814					
8,000.00	7,254.00	7,701.14	7,230.49	34.80	48.83	88.68	316.53	1,165.29	2,157.06	2,099.08	57.99	37.198					
8,100.00	7,254.00	7,700.65	7,230.00	36.66	48.83	88.65	316.53	1,165.29	2,250.17	2,191.84	58.33	38.580					
8,200.00	7,254.00	7,700.15	7,229.50	38.62	48.83	88.61	316.52	1,165.29	2,343.84	2,285.19	58.65	39.960					
8,300.00	7,254.00	7,699.66	7,229.01	40.66	48.83	88.57	316.52	1,165.28	2,438.02	2,379.04	58.98	41.339					
8,400.00	7,254.00	7,699.15	7,228.50	42.78	48.83	88.54	316.51	1,165.28	2,532.64	2,473.35	59.29	42.718					
8,500.00	7,254.00	7,698.65	7,228.00	44.97	48.83	88.50	316.50	1,165.28	2,627.66	2,568.07	59.59	44.096					
8,600.00	7,254.00	7,698.13	7,227.48	47.21	48.83	88.47	316.50	1,165.28	2,723.03	2,663.15	59.88	45.475					
8,700.00	7,254.00	7,697.61	7,226.96	49.50	48.83	88.43	316.49	1,165.28	2,818.73	2,758.57	60.16	46.854					
8,800.00	7,254.00	7,697.09	7,226.44	51.83	48.83	88.39	316.49	1,165.27	2,914.72	2,854.29	60.43	48.233					
8,900.00	7,254.00	7,696.56	7,225.91	54.20	48.83	88.35	316.48	1,165.27	3,010.96	2,950.27	60.69	49.612					
9,000.00	7,254.00	7,696.02	7,225.37	56.60	48.83	88.32	316.47	1,165.27	3,107.45	3,046.51	60.94	50.992					
9,100.00	7,254.00	7,695.48	7,224.83	59.03	48.82	88.28	316.47	1,165.27	3,204.15	3,142.97	61.18	52.372					

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1

Offset Site Error: 0.00 usft

Survey Program: 16-OWSG (Rev2) MWD Reference: 16-OWSG (Rev2) MWD Rule Assigned: 16-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
400.00	400.00	1,612.01	1,565.81	1.22	7.98	101.66	-614.42	2,978.36	3,264.45	3,256.77	7.69	424.760	
500.00	500.00	1,693.00	1,640.06	1.58	8.61	101.94	-623.06	2,947.18	3,228.34	3,219.95	8.39	384.805	
600.00	600.00	1,758.77	1,700.44	1.94	9.13	102.17	-630.41	2,922.18	3,192.83	3,183.79	9.04	353.013	
700.00	700.00	1,865.27	1,798.35	2.29	9.96	102.56	-642.29	2,881.96	3,157.72	3,147.80	9.92	318.247	
800.00	799.98	2,010.31	1,931.21	2.64	11.14	-60.26	-656.79	2,825.63	3,120.59	3,109.60	10.99	283.947	
900.00	899.84	2,097.20	2,010.67	2.97	11.85	-60.78	-664.51	2,791.34	3,081.19	3,069.43	11.76	261.947	
930.56	930.31	2,119.35	2,030.98	3.07	12.03	-60.97	-666.32	2,782.69	3,068.94	3,056.96	11.98	256.131	
1,000.00	999.53	2,172.67	2,079.94	3.31	12.46	-60.87	-670.61	2,762.03	3,041.11	3,028.62	12.48	243.614	
1,100.00	1,099.20	2,269.85	2,169.21	3.66	13.24	-60.67	-678.83	2,724.51	3,001.28	2,987.97	13.31	225.503	
1,200.00	1,198.88	2,414.39	2,301.73	4.02	14.43	-60.42	-688.50	2,667.62	2,960.45	2,946.10	14.35	206.240	
1,300.00	1,298.56	2,534.17	2,410.60	4.38	15.45	-60.17	-697.47	2,618.48	2,918.11	2,902.80	15.31	190.621	
1,400.00	1,398.23	2,600.93	2,471.23	4.75	16.02	-60.02	-702.39	2,590.98	2,875.72	2,859.69	16.02	179.465	
1,500.00	1,497.91	2,667.00	2,531.68	5.12	16.58	-59.88	-707.68	2,564.86	2,834.81	2,818.07	16.74	169.316	
1,600.00	1,597.58	2,692.73	2,555.36	5.49	16.78	-59.82	-709.90	2,555.04	2,795.06	2,777.78	17.28	161.724	
1,700.00	1,697.26	2,756.00	2,613.85	5.86	17.29	-59.66	-715.73	2,531.63	2,756.94	2,738.94	18.00	153.150	
1,800.00	1,796.94	2,904.32	2,750.45	6.23	18.49	-59.25	-731.30	2,475.99	2,719.12	2,699.98	19.14	142.077	
1,900.00	1,896.61	2,999.62	2,837.29	6.61	19.29	-58.94	-741.93	2,438.20	2,679.02	2,658.97	20.05	133.638	
2,000.00	1,996.29	3,073.56	2,904.84	6.99	19.91	-58.70	-750.13	2,409.29	2,639.50	2,618.64	20.86	126.546	
2,100.00	2,095.97	3,149.60	2,974.56	7.37	20.54	-58.46	-758.33	2,380.06	2,600.63	2,578.95	21.68	119.946	
2,200.00	2,195.64	3,229.24	3,047.75	7.75	21.19	-58.20	-766.87	2,349.85	2,562.29	2,539.76	22.52	113.758	
2,300.00	2,295.32	3,307.16	3,119.59	8.12	21.82	-57.96	-774.73	2,320.71	2,524.40	2,501.04	23.36	108.084	
2,400.00	2,394.99	3,377.00	3,184.39	8.51	22.37	-57.76	-780.78	2,295.37	2,487.30	2,463.16	24.14	103.022	
2,500.00	2,494.67	3,466.00	3,267.45	8.89	23.04	-57.56	-786.52	2,263.94	2,450.69	2,425.70	24.99	98.085	
2,600.00	2,594.35	3,539.40	3,336.14	9.27	23.59	-57.41	-790.86	2,238.42	2,414.52	2,388.75	25.76	93.717	
2,700.00	2,694.02	3,629.51	3,420.52	9.65	24.26	-57.19	-796.97	2,207.42	2,378.91	2,352.29	26.62	89.382	
2,800.00	2,793.70	3,839.26	3,615.55	10.03	25.88	-56.74	-806.96	2,130.97	2,340.75	2,312.87	27.87	83.980	
2,900.00	2,893.38	3,934.69	3,703.72	10.41	26.65	-56.55	-810.12	2,094.61	2,300.85	2,272.13	28.73	80.090	
3,000.00	2,993.05	4,077.53	3,834.35	10.80	27.84	-56.18	-816.35	2,037.17	2,259.06	2,229.30	29.76	75.917	
3,100.00	3,092.73	4,119.10	3,872.34	11.18	28.19	-56.06	-818.49	2,020.43	2,217.66	2,187.18	30.48	72.753	
3,200.00	3,192.41	4,171.00	3,920.29	11.56	28.61	-55.91	-821.51	2,000.80	2,178.48	2,147.24	31.24	69.731	
3,300.00	3,292.08	4,225.24	3,970.69	11.94	29.03	-55.74	-825.16	1,981.08	2,140.98	2,108.97	32.01	66.885	
3,400.00	3,391.76	4,384.37	4,117.13	12.33	30.34	-55.11	-839.06	1,920.45	2,102.64	2,069.45	33.19	63.353	
3,500.00	3,491.43	4,471.99	4,196.99	12.71	31.09	-54.71	-847.56	1,885.44	2,062.84	2,028.70	34.15	60.413	
3,600.00	3,591.11	4,553.75	4,271.51	13.09	31.79	-54.30	-856.14	1,852.90	2,023.49	1,988.39	35.10	57.652	
3,700.00	3,690.79	4,632.93	4,343.65	13.48	32.46	-53.87	-865.11	1,821.52	1,984.65	1,948.59	36.06	55.040	
3,800.00	3,790.46	4,701.00	4,406.00	13.86	33.03	-53.51	-872.47	1,795.23	1,946.73	1,909.75	36.98	52.646	
3,900.00	3,890.14	4,792.00	4,489.64	14.25	33.78	-53.02	-882.20	1,760.73	1,909.56	1,871.57	37.98	50.272	
4,000.00	3,989.82	4,888.69	4,578.66	14.63	34.57	-52.50	-892.18	1,724.30	1,872.65	1,833.64	39.02	47.998	
4,100.00	4,089.49	5,069.46	4,742.95	15.01	36.14	-51.47	-908.44	1,650.75	1,832.06	1,791.74	40.32	45.440	
4,200.00	4,189.17	5,142.00	4,808.78	15.40	36.78	-51.04	-914.45	1,620.88	1,791.46	1,750.16	41.30	43.376	
4,300.00	4,288.84	5,216.28	4,876.42	15.78	37.42	-50.58	-920.89	1,590.87	1,751.85	1,709.55	42.30	41.415	
4,400.00	4,388.52	5,306.83	4,958.64	16.17	38.21	-49.97	-929.48	1,553.91	1,712.35	1,668.97	43.38	39.476	
4,500.00	4,488.20	5,401.01	5,043.68	16.55	39.05	-49.25	-939.99	1,514.86	1,672.96	1,628.45	44.51	37.583	
4,600.00	4,587.87	5,463.79	5,100.57	16.94	39.60	-48.75	-946.96	1,489.21	1,634.36	1,588.80	45.56	35.870	
4,700.00	4,687.55	5,530.63	5,161.61	17.32	40.17	-48.22	-954.46	1,463.05	1,597.53	1,550.90	46.63	34.261	
4,800.00	4,787.23	5,584.00	5,210.55	17.71	40.61	-47.79	-960.64	1,442.68	1,562.25	1,514.60	47.65	32.787	
4,900.00	4,886.90	5,673.00	5,293.27	18.09	41.30	-47.13	-969.69	1,411.13	1,528.84	1,480.08	48.75	31.358	
5,000.00	4,986.58	5,727.18	5,344.27	18.48	41.68	-46.78	-974.37	1,393.49	1,497.32	1,447.61	49.71	30.122	
5,100.00	5,086.26	5,796.20	5,409.54	18.86	42.16	-46.32	-980.50	1,371.90	1,467.51	1,416.81	50.70	28.946	
5,200.00	5,185.93	5,878.36	5,487.61	19.25	42.71	-45.77	-988.38	1,347.54	1,439.53	1,387.80	51.73	27.828	
5,300.00	5,285.61	5,974.62	5,579.42	19.63	43.33	-45.21	-995.11	1,319.41	1,411.06	1,358.29	52.77	26.742	
5,400.00	5,385.28	6,045.77	5,647.82	20.02	43.77	-44.83	-999.32	1,300.25	1,384.23	1,330.53	53.70	25.778	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD										Rule Assigned:			Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,500.00	5,484.96	6,129.57	5,728.54	20.40	44.26	-44.38	-1,004.69	1,278.42	1,358.54	1,303.88	54.66	24.856		
5,600.00	5,584.64	6,203.00	5,799.67	20.79	44.67	-44.02	-1,009.02	1,260.71	1,334.37	1,278.81	55.56	24.017		
5,700.00	5,684.31	6,276.89	5,871.80	21.17	45.04	-43.75	-1,012.07	1,245.00	1,311.95	1,255.55	56.39	23.264		
5,800.00	5,783.99	6,343.99	5,937.75	21.56	45.33	-43.58	-1,013.66	1,232.75	1,291.41	1,234.28	57.14	22.603		
5,900.00	5,883.67	6,411.52	6,004.50	21.94	45.60	-43.48	-1,014.82	1,222.59	1,273.32	1,215.50	57.82	22.024		
6,000.00	5,983.34	6,482.57	6,075.01	22.33	45.85	-43.42	-1,015.76	1,213.90	1,257.48	1,199.03	58.45	21.514		
6,100.00	6,083.02	6,556.00	6,148.08	22.71	46.09	-43.42	-1,016.57	1,206.71	1,243.67	1,184.63	59.04	21.066		
6,200.00	6,182.69	6,643.00	6,234.81	23.10	46.33	-43.45	-1,017.38	1,200.01	1,231.56	1,171.93	59.63	20.653		
6,300.00	6,282.37	6,721.24	6,312.91	23.48	46.53	-43.53	-1,017.91	1,195.36	1,220.83	1,160.67	60.16	20.294		
6,400.00	6,382.05	6,808.73	6,400.31	23.87	46.74	-43.65	-1,018.26	1,191.45	1,211.30	1,150.61	60.69	19.960		
6,500.00	6,481.72	6,896.31	6,487.85	24.25	46.94	-43.81	-1,018.50	1,188.55	1,202.71	1,141.51	61.20	19.653		
6,600.00	6,581.40	6,982.58	6,574.09	24.64	47.12	-43.97	-1,019.06	1,186.56	1,195.21	1,133.52	61.69	19.374		
6,688.27	6,669.38	7,063.90	6,655.39	24.98	47.29	-44.12	-1,019.91	1,185.33	1,189.37	1,127.23	62.14	19.139		
6,700.00	6,681.08	7,074.88	6,666.38	25.02	47.31	-58.88	-1,020.04	1,185.19	1,188.74	1,126.53	62.20	19.111		
6,728.56	6,709.54	7,101.63	6,693.12	25.13	47.36	-92.45	-1,020.35	1,184.88	1,188.09	1,125.75	62.34	19.058 CC, ES		
6,750.00	6,730.87	7,121.69	6,713.17	25.21	47.40	-108.73	-1,020.60	1,184.68	1,188.45	1,126.02	62.44	19.034		
6,800.00	6,780.30	7,169.40	6,760.88	25.38	47.49	-126.98	-1,021.21	1,184.24	1,192.12	1,129.47	62.65	19.030 SF		
6,850.00	6,828.99	7,216.76	6,808.24	25.54	47.58	-134.51	-1,021.84	1,183.86	1,199.68	1,136.86	62.82	19.097		
6,900.00	6,876.56	7,263.00	6,854.47	25.69	47.67	-138.35	-1,022.49	1,183.54	1,211.12	1,148.16	62.96	19.235		
6,950.00	6,922.66	7,302.32	6,893.78	25.83	47.74	-140.43	-1,022.94	1,183.47	1,226.49	1,163.46	63.03	19.458		
7,000.00	6,966.93	7,339.67	6,931.13	25.96	47.80	-141.54	-1,023.15	1,183.75	1,245.81	1,182.75	63.06	19.755		
7,050.00	7,009.04	7,374.75	6,966.21	26.08	47.86	-141.97	-1,023.15	1,184.31	1,268.95	1,205.88	63.07	20.121		
7,100.00	7,048.66	7,407.74	6,999.19	26.19	47.91	-141.85	-1,023.00	1,185.11	1,295.75	1,232.71	63.04	20.553		
7,150.00	7,085.51	7,438.89	7,030.32	26.30	47.95	-141.21	-1,022.74	1,186.03	1,325.98	1,262.98	63.00	21.048		
7,200.00	7,119.28	7,466.96	7,058.38	26.39	47.99	-140.00	-1,022.45	1,187.01	1,359.39	1,296.45	62.94	21.599		
7,250.00	7,149.73	7,491.78	7,083.18	26.49	48.02	-138.13	-1,022.12	1,187.98	1,395.73	1,332.86	62.87	22.200		
7,300.00	7,176.63	7,513.19	7,104.57	26.60	48.05	-135.42	-1,021.80	1,188.90	1,434.69	1,371.90	62.79	22.848		
7,350.00	7,199.77	7,531.00	7,122.35	26.76	48.07	-131.62	-1,021.51	1,189.72	1,475.96	1,413.25	62.71	23.535		
7,400.00	7,218.98	7,546.74	7,138.07	26.99	48.09	-126.47	-1,021.24	1,190.47	1,519.19	1,456.54	62.64	24.252		
7,450.00	7,234.10	7,558.55	7,149.86	27.33	48.11	-119.39	-1,021.06	1,191.04	1,563.99	1,501.43	62.57	24.997		
7,500.00	7,245.03	7,566.41	7,157.72	27.75	48.12	-109.84	-1,020.94	1,191.42	1,610.02	1,547.53	62.49	25.763		
7,550.00	7,251.68	7,570.29	7,161.60	28.25	48.12	-97.48	-1,020.88	1,191.61	1,656.90	1,594.48	62.42	26.544		
7,600.00	7,254.00	7,570.18	7,161.48	28.79	48.12	-82.87	-1,020.88	1,191.60	1,704.23	1,641.88	62.35	27.333		
7,601.67	7,254.00	7,570.10	7,161.41	28.81	48.12	-82.36	-1,020.88	1,191.60	1,705.81	1,643.47	62.35	27.359		
7,700.00	7,254.00	7,565.70	7,157.01	30.03	48.12	-81.90	-1,020.95	1,191.38	1,799.38	1,737.15	62.23	28.916		
7,800.00	7,254.00	7,561.25	7,152.56	31.47	48.11	-81.43	-1,021.01	1,191.17	1,895.01	1,832.88	62.13	30.501		
7,900.00	7,254.00	7,556.82	7,148.14	33.06	48.11	-80.97	-1,021.08	1,190.95	1,991.06	1,929.01	62.05	32.086		
8,000.00	7,254.00	7,552.42	7,143.74	34.80	48.10	-80.51	-1,021.15	1,190.74	2,087.48	2,025.48	61.99	33.673		
8,100.00	7,254.00	7,548.04	7,139.37	36.66	48.10	-80.06	-1,021.22	1,190.53	2,184.20	2,122.26	61.95	35.259		
8,200.00	7,254.00	7,543.69	7,135.02	38.62	48.09	-79.61	-1,021.29	1,190.32	2,281.20	2,219.29	61.91	36.847		
8,300.00	7,254.00	7,539.36	7,130.70	40.66	48.08	-79.16	-1,021.37	1,190.11	2,378.44	2,316.55	61.88	38.434		
8,400.00	7,254.00	7,531.00	7,122.35	42.78	48.07	-78.30	-1,021.51	1,189.72	2,475.89	2,414.05	61.84	40.034		
8,500.00	7,254.00	7,531.00	7,122.35	44.97	48.07	-78.30	-1,021.51	1,189.72	2,573.53	2,511.67	61.85	41.607		
8,600.00	7,254.00	7,531.00	7,122.35	47.21	48.07	-78.30	-1,021.51	1,189.72	2,671.34	2,609.47	61.87	43.180		
8,700.00	7,254.00	7,531.00	7,122.35	49.50	48.07	-78.30	-1,021.51	1,189.72	2,769.30	2,707.42	61.88	44.752		
8,800.00	7,254.00	7,531.00	7,122.35	51.83	48.07	-78.30	-1,021.51	1,189.72	2,867.41	2,805.51	61.90	46.323		
8,900.00	7,254.00	7,531.00	7,122.35	54.20	48.07	-78.30	-1,021.51	1,189.72	2,965.64	2,903.72	61.92	47.894		
9,000.00	7,254.00	7,531.00	7,122.35	56.60	48.07	-78.30	-1,021.51	1,189.72	3,063.99	3,002.04	61.94	49.463		
9,100.00	7,254.00	7,531.00	7,122.35	59.03	48.07	-78.30	-1,021.51	1,189.72	3,162.44	3,100.47	61.97	51.032		
9,200.00	7,254.00	7,508.37	7,099.75	61.48	48.04	-76.01	-1,021.88	1,188.68	3,260.87	3,198.96	61.90	52.678		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD MIRACLE 13-12 - Wellbore #1 - Wellbore #1														Offset Site Error: 0.00 usft	
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft		
Reference												Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
600.00	600.00	1,777.00	1,685.02	1.94	10.60	105.82	-837.62	2,956.06	3,265.79	3,254.63	11.15	292.824			
700.00	700.00	1,849.43	1,748.97	2.29	11.27	106.30	-855.80	2,927.34	3,232.44	3,220.40	12.04	268.403			
800.00	799.98	1,921.52	1,812.47	2.64	11.94	-56.44	-874.51	2,898.80	3,198.75	3,185.81	12.94	247.173			
900.00	899.84	1,985.96	1,869.40	2.97	12.53	-56.66	-891.29	2,873.66	3,164.13	3,150.34	13.79	229.457			
930.56	930.31	2,004.46	1,885.73	3.07	12.71	-56.74	-896.24	2,866.53	3,153.40	3,139.35	14.05	224.492			
1,000.00	999.53	2,040.00	1,917.09	3.31	13.03	-56.53	-905.94	2,852.92	3,129.20	3,114.62	14.57	214.711			
1,100.00	1,099.20	2,100.24	1,970.41	3.66	13.59	-56.16	-922.55	2,830.34	3,095.36	3,079.95	15.41	200.836			
1,200.00	1,198.88	2,153.16	2,017.55	4.02	14.06	-55.84	-937.04	2,811.14	3,062.83	3,046.63	16.21	188.989			
1,300.00	1,298.56	2,218.00	2,075.61	4.38	14.64	-55.45	-954.94	2,788.51	3,031.78	3,014.69	17.10	177.343			
1,400.00	1,398.23	2,276.68	2,128.24	4.75	15.15	-55.09	-971.48	2,768.49	3,001.84	2,983.89	17.95	167.216			
1,500.00	1,497.91	2,344.98	2,189.34	5.12	15.76	-54.65	-991.35	2,745.32	2,972.73	2,953.83	18.89	157.336			
1,600.00	1,597.58	2,408.18	2,245.88	5.49	16.31	-54.23	-1,010.27	2,724.38	2,944.79	2,924.98	19.81	148.647			
1,700.00	1,697.26	2,487.21	2,316.51	5.86	17.01	-53.69	-1,034.58	2,698.54	2,917.80	2,896.93	20.86	139.850			
1,800.00	1,796.94	2,631.09	2,444.37	6.23	18.30	-52.66	-1,079.42	2,650.16	2,890.40	2,867.94	22.45	128.721			
1,900.00	1,896.61	2,702.96	2,508.02	6.61	18.95	-52.13	-1,101.79	2,625.40	2,862.74	2,839.25	23.48	121.898			
2,000.00	1,996.29	2,750.00	2,550.01	6.99	19.38	-51.79	-1,116.17	2,609.82	2,836.55	2,812.23	24.32	116.641			
2,100.00	2,095.97	2,822.68	2,615.13	7.37	20.01	-51.27	-1,138.49	2,586.51	2,811.69	2,786.34	25.35	110.912			
2,200.00	2,195.64	2,939.79	2,719.67	7.75	21.05	-50.39	-1,175.45	2,548.83	2,787.36	2,760.61	26.76	104.170			
2,300.00	2,295.32	3,017.05	2,788.08	8.12	21.75	-49.77	-1,200.80	2,523.40	2,763.17	2,735.30	27.87	99.140			
2,400.00	2,394.99	3,115.62	2,875.11	8.51	22.65	-48.96	-1,233.68	2,490.84	2,739.52	2,710.34	29.18	93.885			
2,500.00	2,494.67	3,237.09	2,982.43	8.89	23.77	-47.96	-1,273.67	2,450.37	2,716.09	2,685.41	30.68	88.522			
2,600.00	2,594.35	3,352.98	3,084.83	9.27	24.84	-47.00	-1,310.19	2,410.25	2,691.40	2,659.26	32.14	83.742			
2,700.00	2,694.02	3,477.33	3,194.94	9.65	25.99	-45.96	-1,348.29	2,366.80	2,666.79	2,633.13	33.66	79.232			
2,800.00	2,793.70	3,589.90	3,295.05	10.03	27.02	-45.04	-1,381.06	2,327.09	2,641.87	2,606.81	35.06	75.348			
2,900.00	2,893.38	3,709.31	3,400.95	10.41	28.12	-44.04	-1,414.86	2,283.50	2,615.99	2,579.47	36.53	71.617			
3,000.00	2,993.05	3,781.05	3,464.45	10.80	28.79	-43.42	-1,435.37	2,257.14	2,590.58	2,552.94	37.64	68.821			
3,100.00	3,092.73	3,915.79	3,582.46	11.18	30.08	-42.18	-1,475.87	2,206.31	2,565.54	2,526.24	39.29	65.290			
3,200.00	3,192.41	3,987.00	3,644.09	11.56	30.79	-41.48	-1,498.15	2,178.46	2,540.36	2,499.89	40.47	62.768			
3,300.00	3,292.08	4,061.05	3,708.18	11.94	31.53	-40.75	-1,521.69	2,149.80	2,516.38	2,474.70	41.68	60.375			
3,400.00	3,391.76	4,132.37	3,770.03	12.33	32.24	-40.03	-1,544.51	2,122.57	2,493.60	2,450.74	42.86	58.178			
3,500.00	3,491.43	4,197.33	3,826.63	12.71	32.87	-39.38	-1,565.24	2,098.35	2,472.19	2,428.22	43.98	56.215			
3,600.00	3,591.11	4,261.91	3,883.44	13.09	33.48	-38.74	-1,585.50	2,075.30	2,452.43	2,407.36	45.07	54.408			
3,700.00	3,690.79	4,353.32	3,964.38	13.48	34.33	-37.85	-1,613.59	2,043.40	2,433.69	2,387.31	46.38	52.474			
3,800.00	3,790.46	4,470.46	4,067.41	13.86	35.44	-36.67	-1,650.48	2,001.66	2,415.52	2,367.60	47.92	50.406			
3,900.00	3,890.14	4,584.00	4,167.00	14.25	36.52	-35.50	-1,685.02	1,959.45	2,396.15	2,346.71	49.44	48.469			
4,000.00	3,989.82	4,727.85	4,293.95	14.63	37.87	-34.05	-1,725.99	1,905.63	2,376.41	2,325.26	51.16	46.451			
4,100.00	4,089.49	4,875.62	4,425.56	15.01	39.23	-32.60	-1,763.92	1,850.20	2,356.17	2,303.32	52.84	44.588			
4,200.00	4,189.17	4,946.19	4,487.74	15.40	39.91	-31.86	-1,782.30	1,822.35	2,335.02	2,281.02	54.00	43.240			
4,300.00	4,288.84	5,028.16	4,559.61	15.78	40.70	-30.98	-1,804.58	1,789.83	2,315.08	2,259.82	55.26	41.896			
4,400.00	4,388.52	5,094.20	4,617.29	16.17	41.34	-30.24	-1,823.12	1,763.55	2,296.35	2,239.96	56.39	40.722			
4,500.00	4,488.20	5,153.98	4,669.73	16.55	41.92	-29.58	-1,840.16	1,740.48	2,279.49	2,222.03	57.46	39.674			
4,600.00	4,587.87	5,224.00	4,731.63	16.94	42.58	-28.82	-1,860.30	1,714.66	2,264.65	2,206.08	58.58	38.660			
4,700.00	4,687.55	5,261.69	4,765.11	17.32	42.92	-28.41	-1,871.37	1,701.35	2,251.89	2,192.49	59.40	37.913			
4,800.00	4,787.23	5,313.00	4,810.72	17.71	43.39	-27.86	-1,887.09	1,683.90	2,241.67	2,181.37	60.30	37.176			
4,900.00	4,886.90	5,446.44	4,930.74	18.09	44.56	-26.47	-1,925.29	1,639.84	2,231.46	2,169.59	61.87	36.067			
5,000.00	4,986.58	5,525.95	5,001.83	18.48	45.28	-25.62	-1,948.52	1,612.89	2,221.99	2,159.00	62.99	35.276			
5,100.00	5,086.26	5,608.58	5,075.04	18.86	46.03	-24.69	-1,973.76	1,584.05	2,213.58	2,149.44	64.14	34.511			
5,200.00	5,185.93	5,692.92	5,149.77	19.25	46.82	-23.74	-1,999.81	1,554.89	2,206.43	2,141.13	65.30	33.788			
5,300.00	5,285.61	5,807.47	5,251.13	19.63	47.88	-22.43	-2,034.95	1,514.73	2,199.73	2,133.01	66.72	32.968			
5,400.00	5,385.28	5,940.21	5,369.55	20.02	49.08	-20.96	-2,072.86	1,468.28	2,192.44	2,124.18	68.26	32.119			
5,500.00	5,484.96	6,022.00	5,442.78	20.40	49.81	-20.05	-2,095.53	1,439.77	2,185.41	2,116.07	69.34	31.518			
5,600.00	5,584.64	6,102.79	5,515.26	20.79	50.53	-19.17	-2,117.97	1,412.01	2,179.49	2,109.10	70.39	30.965			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN DD MIRACLE 13-12 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,700.00	5,684.31	6,194.08	5,597.41	21.17	51.33	-18.18	-2,143.09	1,381.10	2,174.46	2,102.96	71.50	30.413		
5,800.00	5,783.99	6,279.18	5,674.45	21.56	52.06	-17.28	-2,166.03	1,353.19	2,170.31	2,097.78	72.52	29.926		
5,900.00	5,883.67	6,401.09	5,786.73	21.94	53.02	-16.09	-2,195.92	1,316.34	2,166.25	2,092.48	73.76	29.368		
6,000.00	5,983.34	6,496.07	5,875.60	22.33	53.71	-15.26	-2,216.89	1,290.21	2,162.23	2,087.50	74.73	28.933		
6,100.00	6,083.02	6,589.78	5,964.52	22.71	54.32	-14.53	-2,235.70	1,267.38	2,158.63	2,082.99	75.64	28.540		
6,200.00	6,182.69	6,686.96	6,057.61	23.10	54.91	-13.85	-2,253.88	1,246.25	2,155.56	2,079.06	76.51	28.175		
6,300.00	6,282.37	6,779.13	6,146.72	23.48	55.42	-13.28	-2,269.52	1,228.64	2,152.63	2,075.33	77.30	27.847		
6,400.00	6,382.05	6,918.74	6,282.75	23.87	56.12	-12.53	-2,290.71	1,205.53	2,149.82	2,071.53	78.28	27.462		
6,500.00	6,481.72	7,023.35	6,385.46	24.25	56.58	-12.06	-2,303.62	1,190.57	2,145.67	2,066.64	79.03	27.148		
6,600.00	6,581.40	7,180.20	6,540.51	24.64	57.18	-11.50	-2,318.32	1,172.04	2,140.41	2,060.51	79.90	26.789		
6,688.27	6,669.38	7,252.31	6,612.11	24.98	57.42	-11.30	-2,323.27	1,165.14	2,134.68	2,054.25	80.44	26.538		
6,700.00	6,681.08	7,264.36	6,624.10	25.02	57.46	-26.04	-2,324.04	1,164.16	2,134.01	2,053.50	80.51	26.505		
6,750.00	6,730.87	7,329.67	6,689.15	25.21	57.64	-75.84	-2,327.51	1,159.54	2,132.22	2,051.36	80.86	26.370		
6,776.54	6,757.18	7,363.27	6,722.67	25.30	57.73	-87.77	-2,328.85	1,157.61	2,131.97	2,050.93	81.04	26.308	CC, ES	
6,800.00	6,780.30	7,391.91	6,751.26	25.38	57.79	-94.16	-2,329.75	1,156.22	2,132.17	2,050.98	81.19	26.261		
6,850.00	6,828.99	7,449.04	6,808.34	25.54	57.92	-101.82	-2,330.93	1,154.19	2,133.97	2,052.45	81.52	26.178		
6,900.00	6,876.56	7,496.60	6,855.88	25.69	58.01	-105.79	-2,331.52	1,153.05	2,137.85	2,056.01	81.83	26.124		
6,950.00	6,922.66	7,542.91	6,902.19	25.83	58.09	-108.09	-2,331.88	1,152.36	2,143.93	2,061.77	82.16	26.096		
7,000.00	6,966.93	7,587.71	6,946.98	25.96	58.16	-109.47	-2,331.97	1,152.13	2,152.24	2,069.77	82.48	26.095	SF	
7,050.00	7,009.04	7,629.24	6,988.51	26.08	58.22	-110.22	-2,331.82	1,152.31	2,162.83	2,080.03	82.80	26.120		
7,100.00	7,048.66	7,666.81	7,026.08	26.19	58.26	-110.46	-2,331.49	1,152.84	2,175.76	2,092.63	83.13	26.172		
7,150.00	7,085.51	7,701.09	7,060.34	26.30	58.30	-110.26	-2,331.03	1,153.62	2,191.04	2,107.57	83.47	26.248		
7,200.00	7,119.28	7,736.55	7,095.79	26.39	58.34	-109.76	-2,330.40	1,154.65	2,208.63	2,124.81	83.82	26.348		
7,250.00	7,149.73	7,768.02	7,127.23	26.49	58.37	-108.86	-2,329.74	1,155.67	2,228.47	2,144.28	84.19	26.470		
7,300.00	7,176.63	7,809.13	7,168.31	26.60	58.41	-107.88	-2,328.65	1,157.12	2,250.47	2,165.90	84.57	26.611		
7,350.00	7,199.77	7,875.73	7,234.79	26.76	58.47	-107.28	-2,325.67	1,159.48	2,274.26	2,189.31	84.95	26.771		
7,400.00	7,218.98	7,900.34	7,259.35	26.99	58.49	-105.32	-2,324.20	1,160.36	2,299.89	2,214.54	85.35	26.947		
7,450.00	7,234.10	7,917.59	7,276.54	27.33	58.50	-102.81	-2,323.11	1,160.98	2,327.43	2,241.68	85.76	27.140		
7,500.00	7,245.03	7,929.27	7,288.19	27.75	58.51	-99.77	-2,322.35	1,161.42	2,356.70	2,270.53	86.17	27.349		
7,550.00	7,251.68	7,935.36	7,294.27	28.25	58.51	-96.19	-2,321.94	1,161.65	2,387.47	2,300.89	86.59	27.573		
7,600.00	7,254.00	7,935.87	7,294.77	28.79	58.51	-92.10	-2,321.91	1,161.67	2,419.50	2,332.50	87.00	27.811		
7,601.67	7,254.00	7,935.79	7,294.69	28.81	58.51	-91.96	-2,321.92	1,161.66	2,420.59	2,333.57	87.01	27.819		
7,700.00	7,254.00	7,930.98	7,289.89	30.03	58.51	-91.81	-2,322.24	1,161.48	2,485.80	2,397.98	87.82	28.306		
7,800.00	7,254.00	7,926.14	7,285.07	31.47	58.51	-91.66	-2,322.56	1,161.30	2,554.28	2,465.64	88.64	28.817		
7,900.00	7,254.00	7,921.35	7,280.30	33.06	58.50	-91.51	-2,322.87	1,161.12	2,624.78	2,535.34	89.44	29.346		
8,000.00	7,254.00	7,916.62	7,275.58	34.80	58.50	-91.36	-2,323.18	1,160.95	2,697.14	2,606.92	90.23	29.893		
8,100.00	7,254.00	7,911.94	7,270.91	36.66	58.50	-91.21	-2,323.47	1,160.78	2,771.22	2,680.24	90.98	30.460		
8,200.00	7,254.00	7,907.31	7,266.30	38.62	58.49	-91.07	-2,323.77	1,160.61	2,846.87	2,755.17	91.70	31.045		
8,300.00	7,254.00	7,902.74	7,261.73	40.66	58.49	-90.93	-2,324.05	1,160.44	2,923.98	2,831.59	92.39	31.649		
8,400.00	7,254.00	7,898.21	7,257.22	42.78	58.48	-90.79	-2,324.33	1,160.28	3,002.44	2,909.40	93.04	32.271		
8,500.00	7,254.00	7,860.15	7,219.23	44.97	58.45	-89.60	-2,326.26	1,158.92	3,082.11	2,988.47	93.64	32.914		
8,600.00	7,254.00	7,856.56	7,215.65	47.21	58.45	-89.49	-2,326.41	1,158.80	3,162.92	3,068.70	94.22	33.570		
8,700.00	7,254.00	7,894.23	7,253.24	49.50	58.48	-90.66	-2,324.55	1,160.13	3,244.88	3,150.10	94.78	34.235		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN VERT DONNAMITE 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
13,900.00	7,254.00	7,146.00	7,146.00	185.41	143.34	-87.89	-2,423.34	-9,409.37	3,268.92	3,021.86	247.06	13.231		
14,000.00	7,254.00	7,146.00	7,146.00	188.11	143.34	-87.89	-2,423.34	-9,409.37	3,186.97	2,935.77	251.20	12.687		
14,100.00	7,254.00	7,146.00	7,146.00	190.80	143.34	-87.89	-2,423.34	-9,409.37	3,106.07	2,850.54	255.54	12.155		
14,200.00	7,254.00	7,146.00	7,146.00	193.50	143.34	-87.89	-2,423.34	-9,409.37	3,026.32	2,766.25	260.07	11.636		
14,300.00	7,254.00	7,146.00	7,146.00	196.19	143.34	-87.89	-2,423.34	-9,409.37	2,947.80	2,682.98	264.82	11.131		
14,400.00	7,254.00	7,146.00	7,146.00	198.89	143.34	-87.89	-2,423.34	-9,409.37	2,870.62	2,600.84	269.78	10.641		
14,500.00	7,254.00	7,146.00	7,146.00	201.59	143.34	-87.89	-2,423.34	-9,409.37	2,794.89	2,519.93	274.96	10.165		
14,600.00	7,254.00	7,146.00	7,146.00	204.29	143.34	-87.89	-2,423.34	-9,409.37	2,720.72	2,440.36	280.36	9.704		
14,700.00	7,254.00	7,146.00	7,146.00	206.99	143.34	-87.89	-2,423.34	-9,409.37	2,648.25	2,362.27	285.98	9.260		
14,800.00	7,254.00	7,146.00	7,146.00	209.69	143.34	-87.89	-2,423.34	-9,409.37	2,577.63	2,285.80	291.83	8.833		
14,900.00	7,254.00	7,146.00	7,146.00	212.39	143.34	-87.89	-2,423.34	-9,409.37	2,509.00	2,211.10	297.90	8.422		
15,000.00	7,254.00	7,146.00	7,146.00	215.09	143.34	-87.89	-2,423.34	-9,409.37	2,442.54	2,138.37	304.18	8.030		
15,100.00	7,254.00	7,146.00	7,146.00	217.79	143.34	-87.89	-2,423.34	-9,409.37	2,378.43	2,067.78	310.65	7.656		
15,200.00	7,254.00	7,146.00	7,146.00	220.50	143.34	-87.89	-2,423.34	-9,409.37	2,316.87	1,999.56	317.31	7.302		
15,300.00	7,254.00	7,146.00	7,146.00	223.20	143.34	-87.89	-2,423.34	-9,409.37	2,258.05	1,933.93	324.12	6.967		
15,400.00	7,254.00	7,146.00	7,146.00	225.90	143.34	-87.89	-2,423.34	-9,409.37	2,202.21	1,871.15	331.05	6.652		
15,500.00	7,254.00	7,146.00	7,146.00	228.61	143.34	-87.89	-2,423.34	-9,409.37	2,149.57	1,811.50	338.07	6.358		
15,600.00	7,254.00	7,146.00	7,146.00	231.31	143.34	-87.89	-2,423.34	-9,409.37	2,100.37	1,755.25	345.12	6.086		
15,602.20	7,254.00	7,146.00	7,146.00	231.37	143.34	-87.89	-2,423.34	-9,409.37	2,099.34	1,754.07	345.27	6.080	CC, ES, SF	

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN VERT KNESS 1 - Wellbore #1 - Design #1														Offset Site Error:	0.00 usft
Survey Program: 0-INC														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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			
0.00	0.00	6.00	6.00	0.00	0.07	-25.86	2,893.66	-1,402.65	3,215.70						
100.00	100.00	106.00	106.00	0.14	1.34	-25.86	2,893.66	-1,402.65	3,215.70	3,214.22	1.48	2,174.253			
200.00	200.00	206.00	206.00	0.50	3.61	-25.86	2,893.66	-1,402.65	3,215.70	3,211.58	4.11	781.565			
300.00	300.00	306.00	306.00	0.86	5.69	-25.86	2,893.66	-1,402.65	3,215.70	3,209.15	6.55	491.017			
400.00	400.00	406.00	406.00	1.22	7.73	-25.86	2,893.66	-1,402.65	3,215.70	3,206.75	8.95	359.339			
500.00	500.00	506.00	506.00	1.58	9.76	-25.86	2,893.66	-1,402.65	3,215.70	3,204.36	11.34	283.669			
600.00	600.00	606.00	606.00	1.94	11.78	-25.86	2,893.66	-1,402.65	3,215.70	3,201.98	13.72	234.430			
700.00	700.00	706.00	706.00	2.29	13.80	-25.86	2,893.66	-1,402.65	3,215.70	3,199.60	16.09	199.798 CC			
800.00	799.98	805.98	805.98	2.64	15.82	171.53	2,893.66	-1,402.65	3,217.42	3,198.97	18.45	174.355 ES			
900.00	899.84	905.84	905.84	2.97	17.83	171.52	2,893.66	-1,402.65	3,222.60	3,201.80	20.80	154.941			
930.56	930.31	936.31	936.31	3.07	18.44	171.52	2,893.66	-1,402.65	3,224.87	3,203.35	21.52	149.871			
1,000.00	999.53	1,005.53	1,005.53	3.31	19.84	171.54	2,893.66	-1,402.65	3,230.39	3,207.25	23.15	139.565			
1,100.00	1,099.20	1,105.20	1,105.20	3.66	21.85	171.56	2,893.66	-1,402.65	3,238.34	3,212.85	25.49	127.025			
1,200.00	1,198.88	1,204.88	1,204.88	4.02	23.85	171.58	2,893.66	-1,402.65	3,246.30	3,218.45	27.85	116.584			
1,300.00	1,298.56	1,304.56	1,304.56	4.38	25.86	171.60	2,893.66	-1,402.65	3,254.25	3,224.05	30.20	107.761			
1,400.00	1,398.23	1,404.23	1,404.23	4.75	27.87	171.62	2,893.66	-1,402.65	3,262.21	3,229.65	32.55	100.207			
1,500.00	1,497.91	1,503.91	1,503.91	5.12	29.87	171.64	2,893.66	-1,402.65	3,270.16	3,235.25	34.91	93.668			
1,600.00	1,597.58	1,603.58	1,603.58	5.49	31.88	171.66	2,893.66	-1,402.65	3,278.11	3,240.84	37.27	87.954 SF			

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



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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN VERT MCWHINNEY-VANDERWATER1 - 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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,200.00	7,254.00	7,215.00	7,215.00	86.88	144.73	-90.00	-2,388.05	-5,655.25	3,221.23	3,025.40	195.83	16.449		
10,300.00	7,254.00	7,215.00	7,215.00	89.48	144.73	-90.00	-2,388.05	-5,655.25	3,139.77	2,941.46	198.31	15.833		
10,400.00	7,254.00	7,215.00	7,215.00	92.09	144.73	-90.00	-2,388.05	-5,655.25	3,059.40	2,858.45	200.95	15.225		
10,500.00	7,254.00	7,215.00	7,215.00	94.70	144.73	-90.00	-2,388.05	-5,655.25	2,980.22	2,776.47	203.74	14.627		
10,600.00	7,254.00	7,215.00	7,215.00	97.32	144.73	-90.00	-2,388.05	-5,655.25	2,902.32	2,695.61	206.71	14.041		
10,700.00	7,254.00	7,215.00	7,215.00	99.95	144.73	-90.00	-2,388.05	-5,655.25	2,825.82	2,615.97	209.85	13.466		
10,800.00	7,254.00	7,215.00	7,215.00	102.58	144.73	-90.00	-2,388.05	-5,655.25	2,750.82	2,537.67	213.16	12.905		
10,900.00	7,254.00	7,215.00	7,215.00	105.21	144.73	-90.00	-2,388.05	-5,655.25	2,677.46	2,460.82	216.65	12.359		
11,000.00	7,254.00	7,215.00	7,215.00	107.85	144.73	-90.00	-2,388.05	-5,655.25	2,605.88	2,385.56	220.32	11.828		
11,100.00	7,254.00	7,215.00	7,215.00	110.49	144.73	-90.00	-2,388.05	-5,655.25	2,536.21	2,312.04	224.17	11.314		
11,200.00	7,254.00	7,215.00	7,215.00	113.14	144.73	-90.00	-2,388.05	-5,655.25	2,468.63	2,240.44	228.20	10.818		
11,300.00	7,254.00	7,215.00	7,215.00	115.79	144.73	-90.00	-2,388.05	-5,655.25	2,403.32	2,170.91	232.40	10.341		
11,400.00	7,254.00	7,215.00	7,215.00	118.44	144.73	-90.00	-2,388.05	-5,655.25	2,340.45	2,103.67	236.78	9.885		
11,500.00	7,254.00	7,215.00	7,215.00	121.09	144.73	-90.00	-2,388.05	-5,655.25	2,280.24	2,038.93	241.31	9.449		
11,600.00	7,254.00	7,215.00	7,215.00	123.75	144.73	-90.00	-2,388.05	-5,655.25	2,222.90	1,976.91	245.98	9.037		
11,700.00	7,254.00	7,215.00	7,215.00	126.41	144.73	-90.00	-2,388.05	-5,655.25	2,168.65	1,917.87	250.78	8.648		
11,800.00	7,254.00	7,215.00	7,215.00	129.08	144.73	-90.00	-2,388.05	-5,655.25	2,117.74	1,862.07	255.68	8.283		
11,900.00	7,254.00	7,215.00	7,215.00	131.75	144.73	-90.00	-2,388.05	-5,655.25	2,070.42	1,809.78	260.64	7.944		
12,000.00	7,254.00	7,215.00	7,215.00	134.41	144.73	-90.00	-2,388.05	-5,655.25	2,026.92	1,761.29	265.63	7.631		
12,100.00	7,254.00	7,215.00	7,215.00	137.08	144.73	-90.00	-2,388.05	-5,655.25	1,987.51	1,716.91	270.60	7.345		
12,200.00	7,254.00	7,215.00	7,215.00	139.76	144.73	-90.00	-2,388.05	-5,655.25	1,952.42	1,676.93	275.50	7.087		
12,300.00	7,254.00	7,215.00	7,215.00	142.43	144.73	-90.00	-2,388.05	-5,655.25	1,921.91	1,641.63	280.28	6.857		
12,400.00	7,254.00	7,215.00	7,215.00	145.11	144.73	-90.00	-2,388.05	-5,655.25	1,896.19	1,611.31	284.88	6.656		
12,500.00	7,254.00	7,215.00	7,215.00	147.79	144.73	-90.00	-2,388.05	-5,655.25	1,875.45	1,586.20	289.24	6.484		
12,600.00	7,254.00	7,215.00	7,215.00	150.47	144.73	-90.00	-2,388.05	-5,655.25	1,859.86	1,566.55	293.31	6.341		
12,700.00	7,254.00	7,215.00	7,215.00	153.15	144.73	-90.00	-2,388.05	-5,655.25	1,849.56	1,552.53	297.03	6.227		
12,800.00	7,254.00	7,215.00	7,215.00	155.83	144.73	-90.00	-2,388.05	-5,655.25	1,844.63	1,544.28	300.35	6.142		
12,841.09	7,254.00	7,215.00	7,215.00	156.93	144.73	-90.00	-2,388.05	-5,655.25	1,844.17	1,542.58	301.59	6.115	CC	
12,900.00	7,254.00	7,215.00	7,215.00	158.51	144.73	-90.00	-2,388.05	-5,655.25	1,845.11	1,541.87	303.24	6.085	ES	
13,000.00	7,254.00	7,215.00	7,215.00	161.20	144.73	-90.00	-2,388.05	-5,655.25	1,851.00	1,545.33	305.67	6.056		
13,100.00	7,254.00	7,215.00	7,215.00	163.88	144.73	-90.00	-2,388.05	-5,655.25	1,862.25	1,554.62	307.63	6.054	SF	
13,200.00	7,254.00	7,215.00	7,215.00	166.57	144.73	-90.00	-2,388.05	-5,655.25	1,878.77	1,569.65	309.12	6.078		
13,300.00	7,254.00	7,215.00	7,215.00	169.26	144.73	-90.00	-2,388.05	-5,655.25	1,900.41	1,590.26	310.15	6.127		
13,400.00	7,254.00	7,215.00	7,215.00	171.95	144.73	-90.00	-2,388.05	-5,655.25	1,927.00	1,616.26	310.74	6.201		
13,500.00	7,254.00	7,215.00	7,215.00	174.64	144.73	-90.00	-2,388.05	-5,655.25	1,958.35	1,647.42	310.92	6.298		
13,600.00	7,254.00	7,215.00	7,215.00	177.33	144.73	-90.00	-2,388.05	-5,655.25	1,994.22	1,683.48	310.74	6.418		
13,700.00	7,254.00	7,215.00	7,215.00	180.02	144.73	-90.00	-2,388.05	-5,655.25	2,034.37	1,724.16	310.22	6.558		
13,800.00	7,254.00	7,215.00	7,215.00	182.72	144.73	-90.00	-2,388.05	-5,655.25	2,078.57	1,769.17	309.40	6.718		
13,900.00	7,254.00	7,215.00	7,215.00	185.41	144.73	-90.00	-2,388.05	-5,655.25	2,126.56	1,818.21	308.35	6.897		
14,000.00	7,254.00	7,215.00	7,215.00	188.11	144.73	-90.00	-2,388.05	-5,655.25	2,178.08	1,871.00	307.08	7.093		
14,100.00	7,254.00	7,215.00	7,215.00	190.80	144.73	-90.00	-2,388.05	-5,655.25	2,232.89	1,927.25	305.64	7.306		
14,200.00	7,254.00	7,215.00	7,215.00	193.50	144.73	-90.00	-2,388.05	-5,655.25	2,290.76	1,986.69	304.07	7.534		
14,300.00	7,254.00	7,215.00	7,215.00	196.19	144.73	-90.00	-2,388.05	-5,655.25	2,351.46	2,049.07	302.39	7.776		
14,400.00	7,254.00	7,215.00	7,215.00	198.89	144.73	-90.00	-2,388.05	-5,655.25	2,414.78	2,114.15	300.63	8.032		
14,500.00	7,254.00	7,215.00	7,215.00	201.59	144.73	-90.00	-2,388.05	-5,655.25	2,480.51	2,181.69	298.82	8.301		
14,600.00	7,254.00	7,215.00	7,215.00	204.29	144.73	-90.00	-2,388.05	-5,655.25	2,548.47	2,251.49	296.98	8.581		
14,700.00	7,254.00	7,215.00	7,215.00	206.99	144.73	-90.00	-2,388.05	-5,655.25	2,618.49	2,323.37	295.12	8.873		
14,800.00	7,254.00	7,215.00	7,215.00	209.69	144.73	-90.00	-2,388.05	-5,655.25	2,690.40	2,397.14	293.26	9.174		
14,900.00	7,254.00	7,215.00	7,215.00	212.39	144.73	-90.00	-2,388.05	-5,655.25	2,764.06	2,472.66	291.41	9.485		
15,000.00	7,254.00	7,215.00	7,215.00	215.09	144.73	-90.00	-2,388.05	-5,655.25	2,839.34	2,549.76	289.58	9.805		
15,100.00	7,254.00	7,215.00	7,215.00	217.79	144.73	-90.00	-2,388.05	-5,655.25	2,916.10	2,628.32	287.77	10.133		
15,200.00	7,254.00	7,215.00	7,215.00	220.50	144.73	-90.00	-2,388.05	-5,655.25	2,994.23	2,708.23	286.00	10.469		

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

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

<b>Offset Design:</b> SEC. 11 T5N R68W 6th P.M. - ABDN VERT MCWHINNEY-VANDERWATER1 - Wellbore #1 - Design #1													<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-INC													<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation</b>	<b>Separation Factor</b>	<b>Warning</b>	
<b>Measured Depth</b>	<b>Vertical Depth</b>	<b>Measured Depth</b>	<b>Vertical Depth</b>	<b>Reference</b>	<b>Offset</b>		<b>+N/-S</b>	<b>+E/-W</b>	<b>Between Centres</b>	<b>Between Ellipses</b>				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
15,300.00	7,254.00	7,215.00	7,215.00	223.20	144.73	-90.00	-2,388.05	-5,655.25	3,073.63	2,789.36	284.26	10.813		
15,400.00	7,254.00	7,215.00	7,215.00	225.90	144.73	-90.00	-2,388.05	-5,655.25	3,154.20	2,871.63	282.57	11.163		
15,500.00	7,254.00	7,215.00	7,215.00	228.61	144.73	-90.00	-2,388.05	-5,655.25	3,235.85	2,954.93	280.92	11.519		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - ABDN VERT MEAN 1 - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-INC													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,700.00	7,254.00	6,727.00	6,727.00	206.99	134.90	-45.31	-1,082.19	-10,720.40	3,270.61	3,097.24	173.38	18.864	
14,800.00	7,254.00	6,727.00	6,727.00	209.69	134.90	-45.31	-1,082.19	-10,720.40	3,172.99	2,998.65	174.33	18.201	
14,900.00	7,254.00	6,727.00	6,727.00	212.39	134.90	-45.31	-1,082.19	-10,720.40	3,075.52	2,900.14	175.37	17.537	
15,000.00	7,254.00	6,727.00	6,727.00	215.09	134.90	-45.31	-1,082.19	-10,720.40	2,978.21	2,801.71	176.50	16.874	
15,100.00	7,254.00	6,727.00	6,727.00	217.79	134.90	-45.31	-1,082.19	-10,720.40	2,881.10	2,703.38	177.72	16.211	
15,200.00	7,254.00	6,727.00	6,727.00	220.50	134.90	-45.31	-1,082.19	-10,720.40	2,784.18	2,605.13	179.05	15.550	
15,300.00	7,254.00	6,727.00	6,727.00	223.20	134.90	-45.31	-1,082.19	-10,720.40	2,687.49	2,507.01	180.49	14.890	
15,400.00	7,254.00	6,727.00	6,727.00	225.90	134.90	-45.31	-1,082.19	-10,720.40	2,591.06	2,409.00	182.06	14.232	
15,500.00	7,254.00	6,727.00	6,727.00	228.61	134.90	-45.31	-1,082.19	-10,720.40	2,494.90	2,311.13	183.77	13.576	
15,600.00	7,254.00	6,727.00	6,727.00	231.31	134.90	-45.31	-1,082.19	-10,720.40	2,399.06	2,213.43	185.63	12.924	
15,602.20	7,254.00	6,727.00	6,727.00	231.37	134.90	-45.31	-1,082.19	-10,720.40	2,396.96	2,211.28	185.68	12.909	CC, ES, SF

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

<b>Offset Design:</b> SEC. 11 T5N R68W 6th P.M. - ABDN VERT NASTY 1 - Wellbore #1 - Design #1													<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-INC													<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>				
15,300.00	7,254.00	6,794.00	6,794.00	223.20	136.26	-77.30	-2,404.59	-10,729.33	3,211.58	2,951.16	260.42	12.332		
15,400.00	7,254.00	6,794.00	6,794.00	225.90	136.26	-77.30	-2,404.59	-10,729.33	3,130.69	2,865.57	265.12	11.808		
15,500.00	7,254.00	6,794.00	6,794.00	228.61	136.26	-77.30	-2,404.59	-10,729.33	3,050.93	2,780.90	270.04	11.298		
15,600.00	7,254.00	6,794.00	6,794.00	231.31	136.26	-77.30	-2,404.59	-10,729.33	2,972.40	2,697.24	275.17	10.802		
15,602.20	7,254.00	6,794.00	6,794.00	231.37	136.26	-77.30	-2,404.59	-10,729.33	2,970.70	2,695.42	275.28	10.791	CC, ES, SF	

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.21	0.00	18.21	18.21						
100.00	100.00	100.00	100.00	0.14	0.14	0.00	18.21	0.00	18.21	17.93	0.29	63.516				
200.00	200.00	200.00	200.00	0.50	0.50	0.00	18.21	0.00	18.21	17.21	1.00	18.147				
300.00	300.00	300.00	300.00	0.86	0.86	0.00	18.21	0.00	18.21	16.49	1.72	10.586				
400.00	400.00	400.03	400.01	1.22	1.21	5.50	18.02	1.74	18.11	15.68	2.43	7.451				
407.41	407.41	407.43	407.41	1.25	1.24	6.35	17.99	2.00	18.10	15.62	2.48	7.293 CC				
500.00	500.00	499.82	499.65	1.58	1.56	21.65	17.44	6.92	18.77	15.63	3.14	5.978				
600.00	600.00	599.29	598.76	1.94	1.93	42.84	16.51	15.31	22.55	18.69	3.86	5.846				
700.00	700.00	698.86	697.91	2.29	2.30	57.60	15.50	24.42	29.00	24.43	4.57	6.341				
800.00	799.98	798.48	797.11	2.64	2.68	-98.52	14.48	33.54	36.87	31.59	5.27	6.991				
900.00	899.84	898.11	896.32	2.97	3.06	-98.67	13.47	42.65	45.42	39.45	5.97	7.608				
930.56	930.31	928.54	926.62	3.07	3.18	-99.52	13.16	45.44	48.15	41.96	6.19	7.781				
1,000.00	999.53	997.67	995.45	3.31	3.44	-101.60	12.46	51.76	54.46	47.77	6.69	8.146				
1,100.00	1,099.20	1,097.22	1,094.58	3.66	3.82	-103.88	11.44	60.87	63.63	56.22	7.41	8.588				
1,200.00	1,198.88	1,196.77	1,193.71	4.02	4.21	-105.58	10.43	69.98	72.88	64.74	8.14	8.953				
1,300.00	1,298.56	1,296.32	1,292.83	4.38	4.60	-106.90	9.42	79.09	82.18	73.31	8.88	9.259				
1,400.00	1,398.23	1,395.87	1,391.96	4.75	4.98	-107.95	8.40	88.20	91.52	81.90	9.62	9.517				
1,500.00	1,497.91	1,495.42	1,491.09	5.12	5.37	-108.80	7.39	97.31	100.88	90.52	10.36	9.738				
1,600.00	1,597.58	1,594.97	1,590.22	5.49	5.76	-109.51	6.37	106.42	110.25	99.15	11.10	9.929				
1,700.00	1,697.26	1,694.52	1,689.35	5.86	6.14	-110.11	5.36	115.53	119.65	107.79	11.85	10.095				
1,800.00	1,796.94	1,794.07	1,788.47	6.23	6.53	-110.62	4.35	124.64	129.05	116.45	12.60	10.241				
1,900.00	1,896.61	1,893.62	1,887.60	6.61	6.92	-111.06	3.33	133.75	138.46	125.11	13.35	10.371				
2,000.00	1,996.29	1,993.17	1,986.73	6.99	7.31	-111.45	2.32	142.86	147.88	133.78	14.10	10.486				
2,100.00	2,095.97	2,092.72	2,085.86	7.37	7.69	-111.79	1.31	151.97	157.30	142.45	14.85	10.590				
2,200.00	2,195.64	2,192.28	2,184.99	7.75	8.08	-112.09	0.29	161.08	166.73	151.12	15.61	10.683				
2,300.00	2,295.32	2,291.83	2,284.11	8.12	8.47	-112.35	-0.72	170.19	176.16	159.80	16.36	10.767				
2,400.00	2,394.99	2,391.38	2,383.24	8.51	8.86	-112.60	-1.73	179.30	185.60	168.49	17.12	10.844				
2,500.00	2,494.67	2,490.93	2,482.37	8.89	9.25	-112.81	-2.75	188.41	195.04	177.17	17.87	10.914				
2,600.00	2,594.35	2,590.48	2,581.50	9.27	9.63	-113.01	-3.76	197.52	204.48	185.86	18.62	10.979				
2,700.00	2,694.02	2,690.03	2,680.63	9.65	10.02	-113.19	-4.77	206.63	213.93	194.55	19.38	11.038				
2,800.00	2,793.70	2,789.58	2,779.75	10.03	10.41	-113.36	-5.79	215.74	223.37	203.24	20.14	11.093				
2,900.00	2,893.38	2,889.13	2,878.88	10.41	10.80	-113.51	-6.80	224.85	232.82	211.93	20.89	11.144				
3,000.00	2,993.05	2,988.68	2,978.01	10.80	11.19	-113.65	-7.81	233.96	242.27	220.62	21.65	11.191				
3,100.00	3,092.73	3,088.23	3,077.14	11.18	11.58	-113.78	-8.83	243.07	251.72	229.31	22.41	11.235				
3,200.00	3,192.41	3,187.78	3,176.27	11.56	11.97	-113.90	-9.84	252.18	261.17	238.01	23.16	11.276				
3,300.00	3,292.08	3,287.34	3,275.39	11.94	12.35	-114.01	-10.85	261.29	270.62	246.70	23.92	11.314				
3,400.00	3,391.76	3,386.89	3,374.52	12.33	12.74	-114.11	-11.87	270.40	280.08	255.40	24.68	11.350				
3,500.00	3,491.43	3,486.44	3,473.65	12.71	13.13	-114.21	-12.88	279.51	289.53	264.10	25.43	11.383				
3,600.00	3,591.11	3,585.99	3,572.78	13.09	13.52	-114.30	-13.89	288.62	298.99	272.80	26.19	11.415				
3,700.00	3,690.79	3,685.54	3,671.91	13.48	13.91	-114.39	-14.91	297.72	308.45	281.49	26.95	11.445				
3,800.00	3,790.46	3,785.09	3,771.03	13.86	14.30	-114.47	-15.92	306.83	317.90	290.19	27.71	11.473				
3,900.00	3,890.14	3,884.64	3,870.16	14.25	14.69	-114.54	-16.94	315.94	327.36	298.89	28.47	11.500				
4,000.00	3,989.82	3,984.19	3,969.29	14.63	15.08	-114.62	-17.95	325.05	336.82	307.59	29.22	11.525				
4,100.00	4,089.49	4,083.74	4,068.42	15.01	15.46	-114.68	-18.96	334.16	346.28	316.29	29.98	11.549				
4,200.00	4,189.17	4,183.29	4,167.55	15.40	15.85	-114.75	-19.98	343.27	355.73	324.99	30.74	11.572				
4,300.00	4,288.84	4,282.84	4,266.67	15.78	16.24	-114.81	-20.99	352.38	365.19	333.69	31.50	11.594				
4,400.00	4,388.52	4,382.40	4,365.80	16.17	16.63	-114.87	-22.00	361.49	374.65	342.40	32.26	11.614				
4,500.00	4,488.20	4,481.95	4,464.93	16.55	17.02	-114.92	-23.02	370.60	384.11	351.10	33.02	11.634				
4,600.00	4,587.87	4,581.50	4,564.06	16.94	17.41	-114.97	-24.03	379.71	393.57	359.80	33.78	11.653				
4,700.00	4,687.55	4,681.05	4,663.19	17.32	17.80	-115.02	-25.04	388.82	403.03	368.50	34.53	11.671				
4,800.00	4,787.23	4,780.60	4,762.31	17.71	18.19	-115.07	-26.06	397.93	412.50	377.20	35.29	11.688				
4,900.00	4,886.90	4,880.15	4,861.44	18.09	18.58	-115.11	-27.07	407.04	421.96	385.90	36.05	11.704				

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
5,000.00	4,986.58	4,979.70	4,960.57	18.48	18.97	-115.16	-28.08	416.15	431.42	394.61	36.81	11.720		
5,100.00	5,086.26	5,079.25	5,059.70	18.86	19.35	-115.20	-29.10	425.26	440.88	403.31	37.57	11.735		
5,200.00	5,185.93	5,178.80	5,158.83	19.25	19.74	-115.24	-30.11	434.37	450.34	412.01	38.33	11.749		
5,300.00	5,285.61	5,278.35	5,257.95	19.63	20.13	-115.28	-31.12	443.48	459.80	420.72	39.09	11.763		
5,400.00	5,385.28	5,377.90	5,357.08	20.02	20.52	-115.31	-32.14	452.59	469.27	429.42	39.85	11.777		
5,500.00	5,484.96	5,477.45	5,456.21	20.40	20.91	-115.35	-33.15	461.70	478.73	438.12	40.61	11.789		
5,600.00	5,584.64	5,577.01	5,555.34	20.79	21.30	-115.38	-34.16	470.81	488.19	446.83	41.37	11.802		
5,700.00	5,684.31	5,676.56	5,654.47	21.17	21.69	-115.42	-35.18	479.92	497.65	455.53	42.13	11.814		
5,800.00	5,783.99	5,776.11	5,753.59	21.56	22.08	-115.45	-36.19	489.03	507.12	464.23	42.88	11.825		
5,900.00	5,883.67	5,875.66	5,852.72	21.94	22.47	-115.48	-37.21	498.14	516.58	472.94	43.64	11.836		
6,000.00	5,983.34	5,975.21	5,951.85	22.33	22.86	-115.51	-38.22	507.25	526.04	481.64	44.40	11.847		
6,100.00	6,083.02	6,074.76	6,050.98	22.71	23.24	-115.53	-39.23	516.36	535.51	490.34	45.16	11.857		
6,200.00	6,182.69	6,174.31	6,150.11	23.10	23.63	-115.56	-40.25	525.47	544.97	499.05	45.92	11.867		
6,300.00	6,282.37	6,273.86	6,249.23	23.48	24.02	-115.59	-41.26	534.58	554.44	507.75	46.68	11.877		
6,400.00	6,382.05	6,373.41	6,348.36	23.87	24.41	-115.61	-42.27	543.68	563.90	516.46	47.44	11.886		
6,500.00	6,481.72	6,472.96	6,447.49	24.25	24.80	-115.64	-43.29	552.79	573.36	525.16	48.20	11.895		
6,600.00	6,581.40	6,642.71	6,616.80	24.64	25.40	-116.19	-45.09	560.59	581.37	532.26	49.12	11.836		
6,688.27	6,669.38	6,937.32	6,892.43	24.98	25.93	-125.16	-48.95	466.21	562.81	516.00	46.82	12.022		
6,700.00	6,681.08	6,938.64	6,893.33	25.02	25.93	-139.63	-48.97	465.16	558.55	511.40	47.14	11.848		
6,750.00	6,730.87	7,076.62	6,997.94	25.21	26.13	164.02	-50.91	375.79	539.29	493.91	45.38	11.883		
6,800.00	6,780.30	7,163.47	7,051.46	25.38	26.33	141.26	-52.10	307.51	519.38	474.21	45.17	11.499		
6,850.00	6,828.99	7,234.90	7,087.34	25.54	26.56	129.67	-53.04	245.80	500.12	454.42	45.70	10.943		
6,900.00	6,876.56	7,295.74	7,111.65	25.69	26.82	122.05	-53.79	190.07	482.41	435.64	46.77	10.315		
6,950.00	6,922.66	7,349.14	7,128.01	25.83	27.12	116.22	-54.42	139.26	466.83	418.69	48.14	9.697		
7,000.00	6,966.93	7,397.17	7,138.63	25.96	27.43	111.31	-54.95	92.44	453.82	404.18	49.64	9.142		
7,050.00	7,009.04	7,441.24	7,144.89	26.08	27.76	106.90	-55.40	48.83	443.67	392.58	51.10	8.683		
7,100.00	7,048.66	7,482.31	7,147.70	26.19	28.10	102.76	-55.79	7.87	436.55	384.16	52.39	8.333		
7,150.00	7,085.51	7,519.04	7,148.00	26.30	28.44	98.98	-56.11	-28.87	432.52	379.09	53.43	8.095		
7,193.44	7,115.04	7,550.81	7,148.00	26.38	28.76	95.78	-56.39	-60.63	431.50	377.37	54.13	7.972		
7,200.00	7,119.28	7,555.80	7,148.00	26.39	28.81	95.29	-56.44	-65.62	431.52	377.31	54.22	7.959		
7,250.00	7,149.73	7,595.37	7,148.00	26.49	29.20	91.58	-56.78	-105.19	432.90	378.09	54.81	7.898		
7,300.00	7,176.63	7,637.44	7,148.00	26.60	29.70	88.00	-57.15	-147.26	435.90	380.53	55.36	7.873		
7,350.00	7,199.77	7,681.71	7,148.00	26.76	30.24	84.73	-57.54	-191.53	439.78	383.89	55.89	7.869		
7,400.00	7,218.98	7,727.84	7,148.00	26.99	30.85	81.88	-57.94	-237.65	443.89	387.40	56.49	7.858		
7,450.00	7,234.10	7,775.47	7,148.00	27.33	31.52	79.58	-58.36	-285.28	447.68	390.48	57.21	7.826		
7,500.00	7,245.03	7,824.23	7,148.00	27.75	32.24	77.88	-58.79	-334.04	450.71	392.63	58.09	7.759		
7,550.00	7,251.68	7,873.77	7,148.00	28.25	33.02	76.84	-59.22	-383.58	452.67	393.51	59.16	7.652		
7,600.00	7,254.00	7,923.70	7,148.00	28.79	33.83	76.48	-59.66	-433.51	453.36	392.94	60.42	7.503		
7,601.67	7,254.00	7,925.37	7,148.00	28.81	33.86	76.48	-59.68	-435.18	453.36	392.89	60.47	7.498		
7,700.00	7,254.00	8,023.70	7,148.00	30.03	35.57	76.48	-60.54	-533.50	453.31	389.98	63.33	7.158		
7,800.00	7,254.00	8,123.70	7,148.00	31.47	37.42	76.48	-61.42	-633.50	453.27	386.73	66.54	6.812		
7,900.00	7,254.00	8,223.70	7,148.00	33.06	39.38	76.47	-62.29	-733.50	453.22	383.21	70.01	6.474		
8,000.00	7,254.00	8,323.70	7,148.00	34.80	41.42	76.47	-63.17	-833.49	453.18	379.48	73.70	6.149		
8,100.00	7,254.00	8,423.70	7,148.00	36.66	43.54	76.47	-64.05	-933.49	453.13	375.55	77.58	5.841		
8,200.00	7,254.00	8,523.70	7,148.00	38.62	45.72	76.47	-64.92	-1,033.49	453.08	371.46	81.63	5.551		
8,300.00	7,254.00	8,623.70	7,148.00	40.66	47.95	76.47	-65.80	-1,133.48	453.04	367.23	85.81	5.279		
8,400.00	7,254.00	8,723.70	7,148.00	42.78	50.24	76.47	-66.68	-1,233.48	452.99	362.87	90.12	5.027		
8,500.00	7,254.00	8,823.70	7,148.00	44.97	52.56	76.47	-67.55	-1,333.47	452.95	358.42	94.53	4.792		
8,600.00	7,254.00	8,923.70	7,148.00	47.21	54.93	76.46	-68.43	-1,433.47	452.90	353.87	99.03	4.573		
8,700.00	7,254.00	9,023.70	7,148.00	49.50	57.32	76.46	-69.31	-1,533.47	452.86	349.25	103.60	4.371		
8,800.00	7,254.00	9,123.70	7,148.00	51.83	59.74	76.46	-70.19	-1,633.46	452.81	344.56	108.25	4.183		
8,900.00	7,254.00	9,223.70	7,148.00	54.20	62.19	76.46	-71.06	-1,733.46	452.77	339.81	112.95	4.008		

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,000.00	7,254.00	9,323.70	7,148.00	56.60	64.66	76.46	-71.94	-1,833.45	452.72	335.01	117.71	3.846			
9,100.00	7,254.00	9,423.70	7,148.00	59.03	67.15	76.46	-72.82	-1,933.45	452.68	330.17	122.51	3.695			
9,200.00	7,254.00	9,523.70	7,148.00	61.48	69.65	76.46	-73.69	-2,033.45	452.63	325.28	127.35	3.554			
9,300.00	7,254.00	9,623.70	7,148.00	63.95	72.17	76.45	-74.57	-2,133.44	452.58	320.36	132.23	3.423			
9,400.00	7,254.00	9,723.70	7,148.00	66.44	74.71	76.45	-75.45	-2,233.44	452.54	315.40	137.14	3.300			
9,500.00	7,254.00	9,823.70	7,148.00	68.96	77.26	76.45	-76.32	-2,333.44	452.49	310.42	142.08	3.185			
9,600.00	7,254.00	9,923.70	7,148.00	71.48	79.82	76.45	-77.20	-2,433.43	452.45	305.41	147.04	3.077			
9,700.00	7,254.00	10,023.70	7,148.00	74.02	82.39	76.45	-78.08	-2,533.43	452.40	300.38	152.03	2.976			
9,800.00	7,254.00	10,123.70	7,148.00	76.57	84.97	76.45	-78.95	-2,633.42	452.36	295.32	157.04	2.881			
9,900.00	7,254.00	10,223.70	7,148.00	79.14	87.55	76.45	-79.83	-2,733.42	452.31	290.25	162.06	2.791			
10,000.00	7,254.00	10,323.70	7,148.00	81.71	90.15	76.45	-80.71	-2,833.42	452.27	285.16	167.11	2.706			
10,100.00	7,254.00	10,423.70	7,148.00	84.29	92.75	76.44	-81.59	-2,933.41	452.22	280.05	172.17	2.627			
10,200.00	7,254.00	10,523.70	7,148.00	86.88	95.36	76.44	-82.46	-3,033.41	452.18	274.93	177.24	2.551			
10,300.00	7,254.00	10,623.70	7,148.00	89.48	97.98	76.44	-83.34	-3,133.40	452.13	269.80	182.33	2.480			
10,400.00	7,254.00	10,723.70	7,148.00	92.09	100.60	76.44	-84.22	-3,233.40	452.08	264.65	187.43	2.412			
10,500.00	7,254.00	10,823.70	7,148.00	94.70	103.23	76.44	-85.09	-3,333.40	452.04	259.50	192.54	2.348			
10,600.00	7,254.00	10,923.70	7,148.00	97.32	105.86	76.44	-85.97	-3,433.39	451.99	254.33	197.67	2.287			
10,700.00	7,254.00	11,023.70	7,148.00	99.95	108.49	76.44	-86.85	-3,533.39	451.95	249.15	202.80	2.229			
10,800.00	7,254.00	11,123.70	7,148.00	102.58	111.13	76.43	-87.72	-3,633.39	451.90	243.97	207.94	2.173			
10,900.00	7,254.00	11,223.70	7,148.00	105.21	113.78	76.43	-88.60	-3,733.38	451.86	238.77	213.08	2.121			
11,000.00	7,254.00	11,323.70	7,148.00	107.85	116.43	76.43	-89.48	-3,833.38	451.81	233.57	218.24	2.070			
11,100.00	7,254.00	11,423.70	7,148.00	110.49	119.08	76.43	-90.35	-3,933.37	451.77	228.36	223.40	2.022			
11,200.00	7,254.00	11,523.70	7,148.00	113.14	121.73	76.43	-91.23	-4,033.37	451.72	223.15	228.57	1.976			
11,300.00	7,254.00	11,623.70	7,148.00	115.79	124.39	76.43	-92.11	-4,133.37	451.68	217.93	233.75	1.932			
11,400.00	7,254.00	11,723.70	7,148.00	118.44	127.05	76.43	-92.99	-4,233.36	451.63	212.70	238.93	1.890			
11,500.00	7,254.00	11,823.70	7,148.00	121.09	129.71	76.42	-93.86	-4,333.36	451.59	207.47	244.11	1.850			
11,600.00	7,254.00	11,923.70	7,148.00	123.75	132.37	76.42	-94.74	-4,433.35	451.54	202.24	249.30	1.811			
11,700.00	7,254.00	12,023.70	7,148.00	126.41	135.04	76.42	-95.62	-4,533.35	451.49	196.99	254.50	1.774			
11,800.00	7,254.00	12,123.70	7,148.00	129.08	137.71	76.42	-96.49	-4,633.35	451.45	191.75	259.70	1.738			
11,900.00	7,254.00	12,223.70	7,148.00	131.75	140.38	76.42	-97.37	-4,733.34	451.40	186.50	264.90	1.704			
12,000.00	7,254.00	12,323.70	7,148.00	134.41	143.05	76.42	-98.25	-4,833.34	451.36	181.25	270.11	1.671			
12,100.00	7,254.00	12,423.70	7,148.00	137.08	145.73	76.42	-99.12	-4,933.33	451.31	175.99	275.32	1.639			
12,200.00	7,254.00	12,523.70	7,148.00	139.76	148.41	76.41	-100.00	-5,033.33	451.27	170.73	280.54	1.609			
12,300.00	7,254.00	12,623.70	7,148.00	142.43	151.08	76.41	-100.88	-5,133.33	451.22	165.46	285.76	1.579			
12,400.00	7,254.00	12,723.70	7,148.00	145.11	153.76	76.41	-101.75	-5,233.32	451.18	160.20	290.98	1.551			
12,500.00	7,254.00	12,823.70	7,148.00	147.79	156.44	76.41	-102.63	-5,333.32	451.13	154.93	296.20	1.523			
12,600.00	7,254.00	12,923.70	7,148.00	150.47	159.13	76.41	-103.51	-5,433.32	451.09	149.65	301.43	1.496 Level 3			
12,700.00	7,254.00	13,023.70	7,148.00	153.15	161.81	76.41	-104.39	-5,533.31	451.04	144.38	306.66	1.471 Level 3			
12,800.00	7,254.00	13,123.70	7,148.00	155.83	164.50	76.41	-105.26	-5,633.31	450.99	139.10	311.89	1.446 Level 3			
12,900.00	7,254.00	13,223.70	7,148.00	158.51	167.18	76.40	-106.14	-5,733.30	450.95	133.82	317.13	1.422 Level 3			
13,000.00	7,254.00	13,323.70	7,148.00	161.20	169.87	76.40	-107.02	-5,833.30	450.90	128.54	322.37	1.399 Level 3			
13,100.00	7,254.00	13,423.70	7,148.00	163.88	172.56	76.40	-107.89	-5,933.30	450.86	123.25	327.60	1.376 Level 3			
13,200.00	7,254.00	13,523.70	7,148.00	166.57	175.25	76.40	-108.77	-6,033.29	450.81	117.97	332.85	1.354 Level 3			
13,300.00	7,254.00	13,623.70	7,148.00	169.26	177.94	76.40	-109.65	-6,133.29	450.77	112.68	338.09	1.333 Level 3			
13,400.00	7,254.00	13,723.70	7,148.00	171.95	180.63	76.40	-110.52	-6,233.28	450.72	107.39	343.33	1.313 Level 3			
13,500.00	7,254.00	13,823.70	7,148.00	174.64	183.32	76.40	-111.40	-6,333.28	450.68	102.10	348.58	1.293 Level 3			
13,600.00	7,254.00	13,923.70	7,148.00	177.33	186.01	76.40	-112.28	-6,433.28	450.63	96.80	353.83	1.274 Level 3			
13,700.00	7,254.00	14,023.70	7,148.00	180.02	188.71	76.39	-113.16	-6,533.27	450.59	91.51	359.08	1.255 Level 3			
13,800.00	7,254.00	14,123.70	7,148.00	182.72	191.40	76.39	-114.03	-6,633.27	450.54	86.21	364.33	1.237 Level 3			
13,900.00	7,254.00	14,223.70	7,148.00	185.41	194.10	76.39	-114.91	-6,733.27	450.50	80.91	369.58	1.219 Level 3			
14,000.00	7,254.00	14,323.70	7,148.00	188.11	196.79	76.39	-115.79	-6,833.26	450.45	75.61	374.84	1.202 Level 3			
14,100.00	7,254.00	14,423.70	7,148.00	190.80	199.49	76.39	-116.66	-6,933.26	450.40	70.31	380.09	1.185 Level 3			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,200.00	7,254.00	14,523.70	7,148.00	193.50	202.19	76.39	-117.54	-7,033.25	450.36	65.01	385.35	1.169	Level 3	
14,300.00	7,254.00	14,623.70	7,148.00	196.19	204.89	76.39	-118.42	-7,133.25	450.31	59.71	390.61	1.153	Level 3	
14,400.00	7,254.00	14,723.70	7,148.00	198.89	207.59	76.38	-119.29	-7,233.25	450.27	54.40	395.87	1.137	Level 3	
14,500.00	7,254.00	14,823.70	7,148.00	201.59	210.29	76.38	-120.17	-7,333.24	450.22	49.10	401.13	1.122	Level 3	
14,600.00	7,254.00	14,923.70	7,148.00	204.29	212.99	76.38	-121.05	-7,433.24	450.18	43.79	406.39	1.108	Level 3	
14,700.00	7,254.00	15,023.70	7,148.00	206.99	215.69	76.38	-121.92	-7,533.23	450.13	38.48	411.65	1.093	Level 3	
14,800.00	7,254.00	15,123.70	7,148.00	209.69	218.39	76.38	-122.80	-7,633.23	450.09	33.17	416.91	1.080	Level 3	
14,900.00	7,254.00	15,223.70	7,148.00	212.39	221.09	76.38	-123.68	-7,733.23	450.04	27.86	422.18	1.066	Level 3	
15,000.00	7,254.00	15,323.70	7,148.00	215.09	223.79	76.38	-124.56	-7,833.22	450.00	22.55	427.44	1.053	Level 3	
15,100.00	7,254.00	15,423.70	7,148.00	217.79	226.49	76.37	-125.43	-7,933.22	449.95	17.24	432.71	1.040	Level 3	
15,200.00	7,254.00	15,523.70	7,148.00	220.50	229.20	76.37	-126.31	-8,033.22	449.90	11.93	437.98	1.027	Level 3	
15,300.00	7,254.00	15,623.70	7,148.00	223.20	231.90	76.37	-127.19	-8,133.21	449.86	6.61	443.24	1.015	Level 3	
15,400.00	7,254.00	15,723.70	7,148.00	225.90	234.60	76.37	-128.06	-8,233.21	449.81	1.30	448.51	1.003	Level 3	
15,500.00	7,254.00	15,823.70	7,148.00	228.61	237.31	76.37	-128.94	-8,333.20	449.77	-4.01	453.78	0.991	Level 3	
15,586.69	7,254.00	15,910.39	7,148.00	230.95	239.65	76.37	-129.70	-8,419.89	449.73	-8.62	458.35	0.981	Level 3, ES, SF	
15,600.00	7,254.00	15,910.78	7,148.00	231.31	239.66	76.37	-129.70	-8,420.28	449.91	-8.49	458.39	0.981	Level 3	
15,602.20	7,254.00	15,910.78	7,148.00	231.37	239.66	76.37	-129.70	-8,420.28	449.96	-8.40	458.36	0.982	Level 3	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Highside		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-14.57	0.00	14.57							
100.00	100.00	100.00	100.00	0.14	0.14	-180.00	-14.57	0.00	14.57	14.29	0.29	50.813				
200.00	200.00	200.00	200.00	0.50	0.50	-180.00	-14.57	0.00	14.57	13.57	1.00	14.518				
300.00	300.00	300.00	300.00	0.86	0.86	-180.00	-14.57	0.00	14.57	12.85	1.72	8.469				
400.00	400.00	400.00	400.00	1.22	1.22	-180.00	-14.57	0.00	14.57	12.13	2.44	5.978				
500.00	500.00	500.00	500.00	1.58	1.58	-180.00	-14.57	0.00	14.57	11.42	3.15	4.619				
600.00	600.00	600.00	600.00	1.94	1.94	-180.00	-14.57	0.00	14.57	10.70	3.87	3.764 CC, ES				
700.00	700.00	699.48	699.46	2.29	2.28	177.93	-16.20	0.59	16.22	11.65	4.57	3.549				
800.00	799.98	798.83	798.67	2.64	2.61	12.02	-21.06	2.34	19.52	14.29	5.24	3.728				
900.00	899.84	898.05	897.52	2.97	2.95	9.34	-29.15	5.25	22.83	16.93	5.89	3.874				
930.56	930.31	928.35	927.64	3.07	3.06	8.60	-32.26	6.37	23.83	17.74	6.09	3.911				
1,000.00	999.53	997.12	995.85	3.31	3.31	6.82	-40.43	9.31	26.95	20.40	6.55	4.114				
1,100.00	1,099.20	1,096.41	1,094.01	3.66	3.69	4.35	-54.49	14.37	33.89	26.67	7.23	4.689				
1,200.00	1,198.88	1,196.14	1,192.54	4.02	4.09	2.67	-68.96	19.58	41.26	33.33	7.93	5.206				
1,300.00	1,298.56	1,295.86	1,291.07	4.38	4.49	1.50	-83.43	24.80	48.65	40.02	8.63	5.638				
1,400.00	1,398.23	1,395.58	1,389.60	4.75	4.90	0.64	-97.90	30.01	56.05	46.72	9.34	6.003				
1,500.00	1,497.91	1,495.30	1,488.13	5.12	5.32	-0.03	-112.37	35.22	63.47	53.42	10.05	6.316				
1,600.00	1,597.58	1,595.03	1,586.66	5.49	5.74	-0.55	-126.85	40.43	70.89	60.13	10.77	6.585				
1,700.00	1,697.26	1,694.75	1,685.18	5.86	6.17	-0.97	-141.32	45.64	78.32	66.83	11.48	6.820				
1,800.00	1,796.94	1,794.47	1,783.71	6.23	6.60	-1.32	-155.79	50.85	85.75	73.54	12.20	7.026				
1,900.00	1,896.61	1,894.19	1,882.24	6.61	7.03	-1.62	-170.26	56.06	93.18	80.25	12.93	7.209				
2,000.00	1,996.29	1,993.91	1,980.77	6.99	7.46	-1.87	-184.73	61.28	100.61	86.96	13.65	7.371				
2,100.00	2,095.97	2,093.64	2,079.30	7.37	7.90	-2.08	-199.21	66.49	108.05	93.67	14.37	7.517				
2,200.00	2,195.64	2,193.36	2,177.83	7.75	8.33	-2.27	-213.68	71.70	115.49	100.39	15.10	7.648				
2,300.00	2,295.32	2,293.08	2,276.36	8.12	8.77	-2.44	-228.15	76.91	122.92	107.10	15.83	7.767				
2,400.00	2,394.99	2,392.80	2,374.89	8.51	9.21	-2.59	-242.62	82.12	130.36	113.81	16.56	7.875				
2,500.00	2,494.67	2,492.53	2,473.42	8.89	9.65	-2.72	-257.10	87.33	137.80	120.52	17.28	7.973				
2,600.00	2,594.35	2,592.25	2,571.94	9.27	10.09	-2.83	-271.57	92.54	145.24	127.23	18.01	8.063				
2,700.00	2,694.02	2,691.97	2,670.47	9.65	10.53	-2.94	-286.04	97.76	152.69	133.94	18.74	8.146				
2,800.00	2,793.70	2,791.69	2,769.00	10.03	10.97	-3.04	-300.51	102.97	160.13	140.65	19.47	8.223				
2,900.00	2,893.38	2,891.42	2,867.53	10.41	11.41	-3.12	-314.98	108.18	167.57	147.37	20.20	8.294				
3,000.00	2,993.05	2,991.14	2,966.06	10.80	11.85	-3.20	-329.46	113.39	175.01	154.08	20.94	8.360				
3,100.00	3,092.73	3,090.86	3,064.59	11.18	12.29	-3.28	-343.93	118.60	182.46	160.79	21.67	8.421				
3,200.00	3,192.41	3,190.58	3,163.12	11.56	12.73	-3.35	-358.40	123.81	189.90	167.50	22.40	8.478				
3,300.00	3,292.08	3,290.31	3,261.65	11.94	13.18	-3.41	-372.87	129.02	197.34	174.21	23.13	8.532				
3,400.00	3,391.76	3,390.03	3,360.18	12.33	13.62	-3.47	-387.34	134.23	204.79	180.92	23.86	8.582				
3,500.00	3,491.43	3,489.75	3,458.71	12.71	14.06	-3.52	-401.82	139.45	212.23	187.63	24.60	8.629				
3,600.00	3,591.11	3,589.47	3,557.23	13.09	14.50	-3.57	-416.29	144.66	219.67	194.34	25.33	8.673				
3,700.00	3,690.79	3,689.20	3,655.76	13.48	14.95	-3.62	-430.76	149.87	227.12	201.05	26.06	8.714				
3,800.00	3,790.46	3,788.92	3,754.29	13.86	15.39	-3.66	-445.23	155.08	234.56	207.77	26.80	8.754				
3,900.00	3,890.14	3,888.64	3,852.82	14.25	15.84	-3.70	-459.71	160.29	242.01	214.48	27.53	8.791				
4,000.00	3,989.82	3,988.36	3,951.35	14.63	16.28	-3.74	-474.18	165.50	249.45	221.19	28.26	8.826				
4,100.00	4,089.49	4,088.08	4,049.88	15.01	16.72	-3.78	-488.65	170.71	256.89	227.90	29.00	8.860				
4,200.00	4,189.17	4,187.81	4,148.41	15.40	17.17	-3.81	-503.12	175.93	264.34	234.61	29.73	8.891				
4,300.00	4,288.84	4,287.53	4,246.94	15.78	17.61	-3.85	-517.59	181.14	271.78	241.32	30.46	8.921				
4,400.00	4,388.52	4,387.25	4,345.47	16.17	18.06	-3.88	-532.07	186.35	279.23	248.03	31.20	8.950				
4,500.00	4,488.20	4,486.97	4,443.99	16.55	18.50	-3.91	-546.54	191.56	286.67	254.74	31.93	8.977				
4,600.00	4,587.87	4,586.70	4,542.52	16.94	18.95	-3.94	-561.01	196.77	294.12	261.45	32.67	9.003				
4,700.00	4,687.55	4,686.42	4,641.05	17.32	19.39	-3.96	-575.48	201.98	301.56	268.16	33.40	9.028				
4,800.00	4,787.23	4,786.14	4,739.58	17.71	19.84	-3.99	-589.95	207.19	309.01	274.87	34.14	9.052				
4,900.00	4,886.90	4,885.86	4,838.11	18.09	20.28	-4.01	-604.43	212.41	316.45	281.58	34.87	9.075				
5,000.00	4,986.58	4,985.59	4,936.64	18.48	20.73	-4.03	-618.90	217.62	323.90	288.29	35.61	9.097				

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

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

**Offset Design:** SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOSAL #1

Survey Program: 0-OWSG (Rev2) MWD													Offset Site Error: 0.00 usft
Reference													Offset Well Error: 0.00 usft
Measured Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,086.26	5,085.31	5,035.17	18.86	21.17	-4.06	-633.37	222.83	331.34	295.00	36.34	9.118	
5,200.00	5,185.93	5,185.03	5,133.70	19.25	21.62	-4.08	-647.84	228.04	338.79	301.71	37.08	9.138	
5,300.00	5,285.61	5,284.75	5,232.23	19.63	22.06	-4.10	-662.32	233.25	346.24	308.42	37.81	9.157	
5,400.00	5,385.28	5,384.48	5,330.75	20.02	22.51	-4.12	-676.79	238.46	353.68	315.13	38.55	9.176	
5,500.00	5,484.96	5,484.20	5,429.28	20.40	22.95	-4.14	-691.26	243.67	361.13	321.85	39.28	9.193	
5,600.00	5,584.64	5,583.92	5,527.81	20.79	23.40	-4.15	-705.73	248.89	368.57	328.56	40.02	9.211	
5,700.00	5,684.31	5,683.64	5,626.34	21.17	23.85	-4.17	-720.20	254.10	376.02	335.27	40.75	9.227	
5,800.00	5,783.99	5,783.36	5,724.87	21.56	24.29	-4.19	-734.68	259.31	383.46	341.98	41.49	9.243	
5,900.00	5,883.67	5,883.09	5,823.40	21.94	24.74	-4.20	-749.15	264.52	390.91	348.69	42.22	9.258	
6,000.00	5,983.34	5,982.81	5,921.93	22.33	25.18	-4.22	-763.62	269.73	398.35	355.40	42.96	9.273	
6,100.00	6,083.02	6,082.53	6,020.46	22.71	25.63	-4.23	-778.09	274.94	405.80	362.11	43.69	9.287	
6,200.00	6,182.69	6,182.25	6,118.99	23.10	26.07	-4.25	-792.56	280.15	413.25	368.82	44.43	9.301	
6,300.00	6,282.37	6,281.98	6,217.52	23.48	26.52	-4.26	-807.04	285.37	420.69	375.53	45.16	9.315	
6,400.00	6,382.05	6,381.70	6,316.04	23.87	26.97	-4.27	-821.51	290.58	428.14	382.24	45.90	9.328	
6,500.00	6,481.72	6,481.42	6,414.57	24.25	27.41	-4.28	-835.98	295.79	435.58	388.95	46.64	9.340	
6,600.00	6,581.40	6,580.69	6,510.49	24.64	27.92	-4.28	-850.44	299.35	442.10	394.63	47.47	9.352	
6,688.27	6,669.38	6,715.58	6,644.41	24.98	28.33	-0.89	-864.91	279.60	442.38	394.25	48.13	9.191	
6,700.00	6,681.08	6,730.36	6,658.47	25.02	28.38	-15.05	-872.08	275.56	442.10	393.89	48.21	9.171	
6,750.00	6,730.87	6,791.82	6,715.68	25.21	28.55	-62.39	-880.68	254.92	441.04	392.51	48.53	9.088	
6,800.00	6,780.30	6,850.88	6,768.29	25.38	28.70	-78.16	-888.64	229.34	440.29	391.43	48.86	9.011	
6,850.00	6,828.99	6,907.69	6,816.18	25.54	28.82	-83.26	-895.94	199.71	439.95	390.73	49.22	8.939	
6,861.38	6,839.93	6,920.32	6,826.41	25.58	28.84	-83.81	-897.51	192.47	439.94	390.64	49.30	8.924	
6,900.00	6,876.56	6,962.39	6,859.32	25.69	28.91	-84.76	-902.57	166.77	440.09	390.50	49.59	8.875	
6,950.00	6,922.66	7,015.15	6,897.80	25.83	28.99	-84.70	-908.54	131.21	440.76	390.79	49.97	8.820	
7,000.00	6,966.93	7,066.12	6,931.75	25.96	29.05	-83.85	-913.85	93.58	441.98	391.62	50.36	8.777	
7,050.00	7,009.04	7,115.48	6,961.34	26.08	29.11	-82.56	-918.54	54.37	443.74	393.01	50.73	8.747	
7,100.00	7,048.66	7,163.37	6,986.76	26.19	29.15	-81.02	-922.62	14.01	446.02	394.92	51.10	8.729	
7,150.00	7,085.51	7,209.93	7,008.19	26.30	29.18	-79.35	-926.12	-27.17	448.76	397.32	51.44	8.723	
7,200.00	7,119.28	7,255.31	7,025.82	26.39	29.22	-77.60	-929.06	-68.86	451.90	400.12	51.78	8.727	
7,250.00	7,149.73	7,300.00	7,039.95	26.49	29.26	-75.81	-931.50	-111.18	455.37	403.24	52.13	8.735	
7,300.00	7,176.63	7,342.94	7,050.40	26.60	29.31	-74.07	-933.38	-152.77	459.09	406.60	52.49	8.746	
7,350.00	7,199.77	7,385.41	7,057.68	26.76	29.39	-72.35	-934.80	-194.58	462.96	410.07	52.89	8.753	
7,400.00	7,218.98	7,427.10	7,061.83	26.99	29.50	-70.70	-935.76	-236.05	466.90	413.56	53.34	8.754	
7,450.00	7,234.10	7,468.86	7,063.00	27.33	29.67	-69.09	-936.28	-277.78	470.81	416.96	53.85	8.742	
7,500.00	7,245.03	7,517.63	7,063.00	27.75	29.98	-67.62	-936.68	-326.55	474.12	419.57	54.55	8.692	
7,550.00	7,251.68	7,567.17	7,063.00	28.25	30.40	-66.71	-937.09	-376.08	476.24	420.81	55.43	8.592	
7,600.00	7,254.00	7,617.10	7,063.00	28.79	30.94	-66.40	-937.51	-426.01	477.00	420.51	56.48	8.445	
7,601.67	7,254.00	7,618.77	7,063.00	28.81	30.96	-66.40	-937.52	-427.68	477.00	420.47	56.52	8.439	
7,700.00	7,254.00	7,717.10	7,063.00	30.03	32.27	-66.40	-938.34	-526.01	477.00	418.01	58.99	8.086	
7,800.00	7,254.00	7,817.10	7,063.00	31.47	33.81	-66.40	-939.17	-626.00	477.00	415.19	61.81	7.717	
7,900.00	7,254.00	7,917.10	7,063.00	33.06	35.52	-66.40	-940.00	-726.00	477.00	412.11	64.89	7.351	
8,000.00	7,254.00	8,017.10	7,063.00	34.80	37.36	-66.40	-940.83	-826.00	477.00	408.79	68.21	6.993	
8,100.00	7,254.00	8,117.10	7,063.00	36.66	39.31	-66.40	-941.67	-925.99	477.00	405.28	71.72	6.651	
8,200.00	7,254.00	8,217.10	7,063.00	38.62	41.34	-66.40	-942.50	-1,025.99	477.00	401.60	75.41	6.326	
8,300.00	7,254.00	8,317.10	7,063.00	40.66	43.45	-66.40	-943.33	-1,125.99	477.00	397.76	79.24	6.020	
8,400.00	7,254.00	8,417.10	7,063.00	42.78	45.63	-66.40	-944.16	-1,225.98	477.01	393.80	83.20	5.733	
8,500.00	7,254.00	8,517.10	7,063.00	44.97	47.86	-66.40	-944.99	-1,325.98	477.01	389.73	87.27	5.466	
8,600.00	7,254.00	8,617.10	7,063.00	47.21	50.14	-66.40	-945.82	-1,425.97	477.01	385.57	91.44	5.217	
8,700.00	7,254.00	8,717.10	7,063.00	49.50	52.46	-66.40	-946.65	-1,525.97	477.01	381.32	95.69	4.985	
8,800.00	7,254.00	8,817.10	7,063.00	51.83	54.82	-66.40	-947.48	-1,625.97	477.01	377.00	100.01	4.770	
8,900.00	7,254.00	8,917.10	7,063.00	54.20	57.21	-66.40	-948.32	-1,725.96	477.01	372.62	104.39	4.569	
9,000.00	7,254.00	9,017.10	7,063.00	56.60	59.63	-66.40	-949.15	-1,825.96	477.01	368.18	108.83	4.383	

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

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

**Offset Design:** SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOSAL #1

**Survey Program:** 0-OWSG (Rev2) MWD **Rule Assigned:**

Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
9,100.00	7,254.00	9,117.10	7,063.00	59.03	62.07	-66.40	-949.98	-1,925.96	477.01	363.70	113.32	4.210	
9,200.00	7,254.00	9,217.10	7,063.00	61.48	64.54	-66.40	-950.81	-2,025.95	477.01	359.17	117.85	4.048	
9,300.00	7,254.00	9,317.10	7,063.00	63.95	67.02	-66.40	-951.64	-2,125.95	477.02	354.60	122.42	3.897	
9,400.00	7,254.00	9,417.10	7,063.00	66.44	69.53	-66.40	-952.47	-2,225.95	477.02	350.00	127.02	3.755	
9,500.00	7,254.00	9,517.10	7,063.00	68.96	72.04	-66.40	-953.30	-2,325.94	477.02	345.36	131.66	3.623	
9,600.00	7,254.00	9,617.10	7,063.00	71.48	74.58	-66.40	-954.14	-2,425.94	477.02	340.70	136.32	3.499	
9,700.00	7,254.00	9,717.10	7,063.00	74.02	77.12	-66.40	-954.97	-2,525.94	477.02	336.01	141.00	3.383	
9,800.00	7,254.00	9,817.10	7,063.00	76.57	79.68	-66.40	-955.80	-2,625.93	477.02	331.31	145.71	3.274	
9,900.00	7,254.00	9,917.10	7,063.00	79.14	82.25	-66.40	-956.63	-2,725.93	477.02	326.58	150.44	3.171	
10,000.00	7,254.00	10,017.10	7,063.00	81.71	84.83	-66.40	-957.46	-2,825.93	477.02	321.83	155.19	3.074	
10,100.00	7,254.00	10,117.10	7,063.00	84.29	87.41	-66.40	-958.29	-2,925.92	477.02	317.07	159.96	2.982	
10,200.00	7,254.00	10,217.10	7,063.00	86.88	90.01	-66.40	-959.12	-3,025.92	477.02	312.29	164.74	2.896	
10,300.00	7,254.00	10,317.10	7,063.00	89.48	92.61	-66.40	-959.95	-3,125.92	477.03	307.49	169.53	2.814	
10,400.00	7,254.00	10,417.10	7,063.00	92.09	95.22	-66.40	-960.79	-3,225.91	477.03	302.69	174.34	2.736	
10,500.00	7,254.00	10,517.10	7,063.00	94.70	97.83	-66.40	-961.62	-3,325.91	477.03	297.87	179.16	2.663	
10,600.00	7,254.00	10,617.10	7,063.00	97.32	100.45	-66.40	-962.45	-3,425.91	477.03	293.04	183.99	2.593	
10,700.00	7,254.00	10,717.10	7,063.00	99.95	103.07	-66.40	-963.28	-3,525.90	477.03	288.20	188.83	2.526	
10,800.00	7,254.00	10,817.10	7,063.00	102.58	105.70	-66.40	-964.11	-3,625.90	477.03	283.35	193.68	2.463	
10,900.00	7,254.00	10,917.10	7,063.00	105.21	108.34	-66.40	-964.94	-3,725.90	477.03	278.50	198.54	2.403	
11,000.00	7,254.00	11,017.10	7,063.00	107.85	110.98	-66.40	-965.77	-3,825.89	477.03	273.63	203.40	2.345	
11,100.00	7,254.00	11,117.10	7,063.00	110.49	113.62	-66.40	-966.60	-3,925.89	477.03	268.76	208.28	2.290	
11,200.00	7,254.00	11,217.10	7,063.00	113.14	116.27	-66.40	-967.44	-4,025.89	477.03	263.88	213.16	2.238	
11,300.00	7,254.00	11,317.10	7,063.00	115.79	118.91	-66.40	-968.27	-4,125.88	477.04	258.99	218.04	2.188	
11,400.00	7,254.00	11,417.10	7,063.00	118.44	121.57	-66.40	-969.10	-4,225.88	477.04	254.10	222.94	2.140	
11,500.00	7,254.00	11,517.10	7,063.00	121.09	124.22	-66.40	-969.93	-4,325.87	477.04	249.20	227.83	2.094	
11,600.00	7,254.00	11,617.10	7,063.00	123.75	126.88	-66.40	-970.76	-4,425.87	477.04	244.30	232.74	2.050	
11,700.00	7,254.00	11,717.10	7,063.00	126.41	129.54	-66.40	-971.59	-4,525.87	477.04	239.39	237.65	2.007	
11,800.00	7,254.00	11,817.10	7,063.00	129.08	132.21	-66.40	-972.42	-4,625.86	477.04	234.48	242.56	1.967	
11,900.00	7,254.00	11,917.10	7,063.00	131.75	134.87	-66.40	-973.26	-4,725.86	477.04	229.56	247.48	1.928	
12,000.00	7,254.00	12,017.10	7,063.00	134.41	137.54	-66.40	-974.09	-4,825.86	477.04	224.64	252.40	1.890	
12,100.00	7,254.00	12,117.10	7,063.00	137.08	140.21	-66.40	-974.92	-4,925.85	477.04	219.72	257.33	1.854	
12,200.00	7,254.00	12,217.10	7,063.00	139.76	142.88	-66.40	-975.75	-5,025.85	477.04	214.79	262.26	1.819	
12,300.00	7,254.00	12,317.10	7,063.00	142.43	145.56	-66.40	-976.58	-5,125.85	477.05	209.85	267.19	1.785	
12,400.00	7,254.00	12,417.10	7,063.00	145.11	148.23	-66.40	-977.41	-5,225.84	477.05	204.92	272.13	1.753	
12,500.00	7,254.00	12,517.10	7,063.00	147.79	150.91	-66.40	-978.24	-5,325.84	477.05	199.98	277.07	1.722	
12,600.00	7,254.00	12,617.10	7,063.00	150.47	153.59	-66.40	-979.07	-5,425.84	477.05	195.04	282.01	1.692	
12,700.00	7,254.00	12,717.10	7,063.00	153.15	156.27	-66.40	-979.91	-5,525.83	477.05	190.09	286.96	1.662	
12,800.00	7,254.00	12,817.10	7,063.00	155.83	158.95	-66.40	-980.74	-5,625.83	477.05	185.15	291.90	1.634	
12,900.00	7,254.00	12,917.10	7,063.00	158.51	161.63	-66.40	-981.57	-5,725.83	477.05	180.20	296.86	1.607	
13,000.00	7,254.00	13,017.10	7,063.00	161.20	164.32	-66.40	-982.40	-5,825.82	477.05	175.24	301.81	1.581	
13,100.00	7,254.00	13,117.10	7,063.00	163.88	167.00	-66.40	-983.23	-5,925.82	477.05	170.29	306.76	1.555	
13,200.00	7,254.00	13,217.10	7,063.00	166.57	169.69	-66.40	-984.06	-6,025.82	477.05	165.33	311.72	1.530	
13,300.00	7,254.00	13,317.10	7,063.00	169.26	172.38	-66.40	-984.89	-6,125.81	477.06	160.37	316.68	1.506	
13,400.00	7,254.00	13,417.10	7,063.00	171.95	175.07	-66.40	-985.72	-6,225.81	477.06	155.41	321.64	1.483 Level 3	
13,500.00	7,254.00	13,517.10	7,063.00	174.64	177.76	-66.40	-986.56	-6,325.81	477.06	150.45	326.61	1.461 Level 3	
13,600.00	7,254.00	13,617.10	7,063.00	177.33	180.45	-66.40	-987.39	-6,425.80	477.06	145.49	331.57	1.439 Level 3	
13,700.00	7,254.00	13,717.10	7,063.00	180.02	183.14	-66.40	-988.22	-6,525.80	477.06	140.52	336.54	1.418 Level 3	
13,800.00	7,254.00	13,817.10	7,063.00	182.72	185.83	-66.40	-989.05	-6,625.80	477.06	135.55	341.51	1.397 Level 3	
13,900.00	7,254.00	13,917.10	7,063.00	185.41	188.52	-66.40	-989.88	-6,725.79	477.06	130.58	346.48	1.377 Level 3	
14,000.00	7,254.00	14,017.10	7,063.00	188.11	191.22	-66.40	-990.71	-6,825.79	477.06	125.61	351.45	1.357 Level 3	
14,100.00	7,254.00	14,117.10	7,063.00	190.80	193.91	-66.40	-991.54	-6,925.79	477.06	120.64	356.42	1.338 Level 3	
14,200.00	7,254.00	14,217.10	7,063.00	193.50	196.61	-66.40	-992.38	-7,025.78	477.06	115.67	361.40	1.320 Level 3	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
14,300.00	7,254.00	14,317.10	7,063.00	196.19	199.30	-66.40	-993.21	-7,125.78	477.07	110.69	366.37	1.302	Level 3		
14,400.00	7,254.00	14,417.10	7,063.00	198.89	202.00	-66.40	-994.04	-7,225.77	477.07	105.72	371.35	1.285	Level 3		
14,500.00	7,254.00	14,517.10	7,063.00	201.59	204.70	-66.40	-994.87	-7,325.77	477.07	100.74	376.33	1.268	Level 3		
14,600.00	7,254.00	14,617.10	7,063.00	204.29	207.40	-66.40	-995.70	-7,425.77	477.07	95.76	381.31	1.251	Level 3		
14,700.00	7,254.00	14,717.10	7,063.00	206.99	210.10	-66.40	-996.53	-7,525.76	477.07	90.78	386.29	1.235	Level 3		
14,800.00	7,254.00	14,817.10	7,063.00	209.69	212.80	-66.40	-997.36	-7,625.76	477.07	85.80	391.27	1.219	Level 3		
14,900.00	7,254.00	14,917.10	7,063.00	212.39	215.50	-66.40	-998.19	-7,725.76	477.07	80.82	396.25	1.204	Level 3		
15,000.00	7,254.00	15,017.10	7,063.00	215.09	218.20	-66.40	-999.03	-7,825.75	477.07	75.83	401.24	1.189	Level 3		
15,100.00	7,254.00	15,117.10	7,063.00	217.79	220.90	-66.40	-999.86	-7,925.75	477.07	70.85	406.22	1.174	Level 3		
15,200.00	7,254.00	15,217.10	7,063.00	220.50	223.60	-66.40	-1,000.69	-8,025.75	477.07	65.87	411.21	1.160	Level 3		
15,300.00	7,254.00	15,317.10	7,063.00	223.20	226.30	-66.40	-1,001.52	-8,125.74	477.08	60.88	416.20	1.146	Level 3		
15,400.00	7,254.00	15,417.10	7,063.00	225.90	229.00	-66.40	-1,002.35	-8,225.74	477.08	55.89	421.18	1.133	Level 3		
15,500.00	7,254.00	15,517.10	7,063.00	228.61	231.71	-66.40	-1,003.18	-8,325.74	477.08	50.91	426.17	1.119	Level 3		
15,600.00	7,254.00	15,617.10	7,063.00	231.31	234.41	-66.40	-1,004.01	-8,425.73	477.08	45.92	431.16	1.106	Level 3		
15,602.20	7,254.00	15,617.51	7,063.00	231.37	234.42	-66.40	-1,004.02	-8,426.15	477.09	45.82	431.27	1.106	Level 3, SF		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis Reference		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-32.79	0.00	32.79					
100.00	100.00	100.00	100.00	0.14	0.14	-180.00	-32.79	0.00	32.79	32.50	0.29	114.328		
200.00	200.00	200.00	200.00	0.50	0.50	-180.00	-32.79	0.00	32.79	31.78	1.00	32.665		
300.00	300.00	300.00	300.00	0.86	0.86	-180.00	-32.79	0.00	32.79	31.07	1.72	19.055		
400.00	400.00	400.00	400.00	1.22	1.22	-180.00	-32.79	0.00	32.79	30.35	2.44	13.450		
500.00	500.00	500.00	500.00	1.58	1.58	-180.00	-32.79	0.00	32.79	29.63	3.15	10.394	CC, ES	
600.00	600.00	598.86	598.84	1.94	1.92	179.37	-34.45	0.38	34.47	30.62	3.85	8.950		
700.00	700.00	697.48	697.32	2.29	2.25	177.79	-39.42	1.52	39.54	35.00	4.54	8.715		
800.00	799.98	795.79	795.27	2.64	2.59	13.75	-47.66	3.41	46.32	41.12	5.20	8.901		
900.00	899.84	893.88	892.64	2.97	2.95	12.99	-59.14	6.04	53.12	47.26	5.86	9.067		
930.56	930.31	923.81	922.26	3.07	3.06	12.84	-63.29	6.99	55.19	49.13	6.06	9.111		
1,000.00	999.53	991.67	989.26	3.31	3.33	12.50	-73.81	9.40	60.71	54.20	6.52	9.317		
1,100.00	1,099.20	1,088.86	1,084.72	3.66	3.74	11.80	-91.57	13.47	71.52	64.34	7.18	9.960		
1,200.00	1,198.88	1,187.53	1,181.19	4.02	4.17	11.09	-111.76	18.10	84.58	76.71	7.88	10.740		
1,300.00	1,298.56	1,286.66	1,278.10	4.38	4.62	10.56	-132.10	22.76	97.72	89.14	8.58	11.387		
1,400.00	1,398.23	1,385.79	1,375.00	4.75	5.09	10.16	-152.44	27.43	110.87	101.57	9.30	11.922		
1,500.00	1,497.91	1,484.91	1,471.91	5.12	5.56	9.84	-172.79	32.09	124.02	114.00	10.02	12.378		
1,600.00	1,597.58	1,584.04	1,568.82	5.49	6.04	9.58	-193.13	36.75	137.17	126.43	10.74	12.768		
1,700.00	1,697.26	1,683.17	1,665.73	5.86	6.52	9.37	-213.47	41.42	150.33	138.86	11.47	13.107		
1,800.00	1,796.94	1,782.30	1,762.64	6.23	7.00	9.20	-233.82	46.08	163.48	151.28	12.20	13.403		
1,900.00	1,896.61	1,881.43	1,859.54	6.61	7.49	9.04	-254.16	50.74	176.64	163.71	12.93	13.663		
2,000.00	1,996.29	1,980.56	1,956.45	6.99	7.98	8.91	-274.50	55.41	189.80	176.14	13.66	13.894		
2,100.00	2,095.97	2,079.69	2,053.36	7.37	8.47	8.80	-294.84	60.07	202.96	188.56	14.39	14.100		
2,200.00	2,195.64	2,178.82	2,150.27	7.75	8.97	8.70	-315.19	64.73	216.12	200.99	15.13	14.285		
2,300.00	2,295.32	2,277.95	2,247.17	8.12	9.46	8.61	-335.53	69.39	229.28	213.41	15.86	14.453		
2,400.00	2,394.99	2,377.08	2,344.08	8.51	9.96	8.54	-355.87	74.06	242.44	225.84	16.60	14.604		
2,500.00	2,494.67	2,476.21	2,440.99	8.89	10.46	8.47	-376.21	78.72	255.60	238.26	17.34	14.742		
2,600.00	2,594.35	2,575.34	2,537.90	9.27	10.96	8.40	-396.56	83.38	268.76	250.69	18.08	14.868		
2,700.00	2,694.02	2,674.47	2,634.81	9.65	11.46	8.34	-416.90	88.05	281.93	263.11	18.81	14.984		
2,800.00	2,793.70	2,773.60	2,731.71	10.03	11.96	8.29	-437.24	92.71	295.09	275.53	19.55	15.091		
2,900.00	2,893.38	2,872.73	2,828.62	10.41	12.46	8.24	-457.59	97.37	308.25	287.96	20.29	15.189		
3,000.00	2,993.05	2,971.86	2,925.53	10.80	12.96	8.20	-477.93	102.04	321.41	300.38	21.03	15.281		
3,100.00	3,092.73	3,070.99	3,022.44	11.18	13.46	8.16	-498.27	106.70	334.58	312.80	21.77	15.366		
3,200.00	3,192.41	3,170.12	3,119.34	11.56	13.96	8.12	-518.61	111.36	347.74	325.23	22.52	15.445		
3,300.00	3,292.08	3,269.25	3,216.25	11.94	14.47	8.09	-538.96	116.02	360.90	337.65	23.26	15.518		
3,400.00	3,391.76	3,368.38	3,313.16	12.33	14.97	8.06	-559.30	120.69	374.07	350.07	24.00	15.587		
3,500.00	3,491.43	3,467.51	3,410.07	12.71	15.47	8.03	-579.64	125.35	387.23	362.49	24.74	15.652		
3,600.00	3,591.11	3,566.64	3,506.97	13.09	15.98	8.00	-599.99	130.01	400.40	374.91	25.48	15.713		
3,700.00	3,690.79	3,665.77	3,603.88	13.48	16.48	7.97	-620.33	134.68	413.56	387.34	26.22	15.770		
3,800.00	3,790.46	3,764.90	3,700.79	13.86	16.98	7.95	-640.67	139.34	426.72	399.76	26.97	15.824		
3,900.00	3,890.14	3,864.03	3,797.70	14.25	17.49	7.92	-661.01	144.00	439.89	412.18	27.71	15.875		
4,000.00	3,989.82	3,963.15	3,894.61	14.63	17.99	7.90	-681.36	148.67	453.05	424.60	28.45	15.924		
4,100.00	4,089.49	4,062.28	3,991.51	15.01	18.50	7.88	-701.70	153.33	466.22	437.02	29.19	15.969		
4,200.00	4,189.17	4,161.41	4,088.42	15.40	19.00	7.86	-722.04	157.99	479.38	449.44	29.94	16.013		
4,300.00	4,288.84	4,260.54	4,185.33	15.78	19.50	7.84	-742.38	162.65	492.54	461.86	30.68	16.054		
4,400.00	4,388.52	4,359.67	4,282.24	16.17	20.01	7.83	-762.73	167.32	505.71	474.28	31.42	16.093		
4,500.00	4,488.20	4,458.80	4,379.14	16.55	20.51	7.81	-783.07	171.98	518.87	486.71	32.17	16.130		
4,600.00	4,587.87	4,557.93	4,476.05	16.94	21.02	7.79	-803.41	176.64	532.04	499.13	32.91	16.166		
4,700.00	4,687.55	4,657.06	4,572.96	17.32	21.52	7.78	-823.76	181.31	545.20	511.55	33.66	16.200		
4,800.00	4,787.23	4,756.19	4,669.87	17.71	22.03	7.76	-844.10	185.97	558.37	523.97	34.40	16.232		
4,900.00	4,886.90	4,855.32	4,766.78	18.09	22.54	7.75	-864.44	190.63	571.53	536.39	35.14	16.263		
5,000.00	4,986.58	4,954.45	4,863.68	18.48	23.04	7.74	-884.78	195.30	584.70	548.81	35.89	16.293		

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOSAL #1														Offset Site Error:		
Survey Program: 0-OWSG (Rev2) MWD														Offset Well Error:		
Reference				Offset				Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Rule Assigned:		Warning	
5,100.00	5,086.26	5,053.58	4,960.59	18.86	23.55	7.72	-905.13	199.96	597.86	561.23	36.63	16.321				
5,200.00	5,185.93	5,152.71	5,057.50	19.25	24.05	7.71	-925.47	204.62	611.03	573.65	37.38	16.348				
5,300.00	5,285.61	5,251.84	5,154.41	19.63	24.56	7.70	-945.81	209.28	624.19	586.07	38.12	16.374				
5,400.00	5,385.28	5,350.97	5,251.31	20.02	25.06	7.69	-966.16	213.95	637.35	598.49	38.86	16.399				
5,500.00	5,484.96	5,450.10	5,348.22	20.40	25.57	7.68	-986.50	218.61	650.52	610.91	39.61	16.424				
5,600.00	5,584.64	5,549.23	5,445.13	20.79	26.08	7.67	-1,006.84	223.27	663.68	623.33	40.35	16.447				
5,700.00	5,684.31	5,648.36	5,542.04	21.17	26.58	7.66	-1,027.18	227.94	676.85	635.75	41.10	16.469				
5,800.00	5,783.99	5,747.49	5,638.94	21.56	27.09	7.65	-1,047.53	232.60	690.01	648.17	41.84	16.491				
5,900.00	5,883.67	5,846.62	5,735.85	21.94	27.59	7.64	-1,067.87	237.26	703.18	660.59	42.59	16.511				
6,000.00	5,983.34	5,945.75	5,832.76	22.33	28.10	7.63	-1,088.21	241.93	716.34	673.01	43.33	16.531				
6,100.00	6,083.02	6,044.88	5,929.67	22.71	28.61	7.62	-1,108.55	246.59	729.51	685.43	44.08	16.551				
6,200.00	6,182.69	6,144.01	6,026.58	23.10	29.11	7.62	-1,128.90	251.25	742.67	697.85	44.82	16.569				
6,300.00	6,282.37	6,243.14	6,123.48	23.48	29.62	7.61	-1,149.24	255.91	755.84	710.27	45.57	16.587				
6,400.00	6,382.05	6,342.27	6,220.39	23.87	30.12	7.60	-1,169.58	260.58	769.00	722.69	46.31	16.605				
6,500.00	6,481.72	6,441.39	6,317.30	24.25	30.63	7.59	-1,189.93	265.24	782.17	735.11	47.06	16.622				
6,600.00	6,581.40	6,540.52	6,414.21	24.64	31.14	7.59	-1,210.27	269.90	795.33	747.53	47.80	16.638				
6,688.27	6,669.38	6,628.02	6,499.74	24.98	31.58	7.58	-1,228.22	274.02	806.95	758.49	48.46	16.652				
6,700.00	6,681.08	6,639.65	6,511.11	25.02	31.64	-6.97	-1,230.61	274.57	808.52	759.97	48.55	16.654				
6,750.00	6,730.87	6,689.03	6,559.38	25.21	31.90	-56.17	-1,240.74	276.89	815.60	766.69	48.91	16.676				
6,800.00	6,780.30	6,746.13	6,615.23	25.38	32.18	-74.12	-1,252.47	278.56	823.25	773.93	49.32	16.692				
6,850.00	6,828.99	6,811.48	6,678.98	25.54	32.49	-81.47	-1,265.92	274.03	830.74	780.97	49.77	16.693				
6,900.00	6,876.56	6,878.11	6,743.02	25.69	32.77	-85.15	-1,279.49	261.81	837.89	787.70	50.19	16.695				
6,950.00	6,922.66	6,945.80	6,806.20	25.83	33.02	-87.19	-1,292.95	241.70	844.61	794.03	50.58	16.698				
7,000.00	6,966.93	7,014.29	6,867.29	25.96	33.23	-88.33	-1,306.03	213.75	850.82	799.87	50.95	16.700				
7,050.00	7,009.04	7,083.26	6,925.07	26.08	33.43	-88.91	-1,318.48	178.27	856.45	805.15	51.30	16.695				
7,100.00	7,048.66	7,152.37	6,978.35	26.19	33.59	-89.11	-1,330.04	135.86	861.45	809.80	51.66	16.677				
7,150.00	7,085.51	7,221.29	7,026.11	26.30	33.73	-89.04	-1,340.48	87.35	865.80	813.75	52.05	16.635				
7,200.00	7,119.28	7,289.67	7,067.51	26.39	33.84	-88.75	-1,349.64	33.76	869.48	816.98	52.50	16.562				
7,250.00	7,149.73	7,357.19	7,101.98	26.49	33.94	-88.31	-1,357.37	-23.74	872.48	819.44	53.04	16.450				
7,300.00	7,176.63	7,423.57	7,129.18	26.60	34.03	-87.74	-1,363.59	-83.93	874.82	821.14	53.67	16.299				
7,350.00	7,199.77	7,488.60	7,149.04	26.76	34.12	-87.08	-1,368.28	-145.65	876.52	822.07	54.44	16.099				
7,400.00	7,218.98	7,552.11	7,161.71	26.99	34.22	-86.35	-1,371.46	-207.76	877.61	822.29	55.32	15.864				
7,450.00	7,234.10	7,613.98	7,167.51	27.33	34.33	-85.57	-1,373.19	-269.30	878.14	821.82	56.31	15.594				
7,500.00	7,245.03	7,667.59	7,168.00	27.75	34.47	-84.91	-1,373.74	-322.90	878.24	820.88	57.36	15.312				
7,550.00	7,251.68	7,717.12	7,168.00	28.25	34.63	-84.52	-1,374.16	-372.44	878.34	819.88	58.46	15.026				
7,600.00	7,254.00	7,767.05	7,168.00	28.79	34.85	-84.38	-1,374.57	-422.36	878.39	818.74	59.65	14.727				
7,601.67	7,254.00	7,768.72	7,168.00	28.81	34.86	-84.38	-1,374.59	-424.03	878.39	818.70	59.68	14.717				
7,700.00	7,254.00	7,867.05	7,168.00	30.03	35.49	-84.38	-1,375.40	-522.36	878.39	816.11	62.27	14.105				
7,800.00	7,254.00	7,967.05	7,168.00	31.47	36.44	-84.38	-1,376.24	-622.36	878.39	813.14	65.25	13.462				
7,900.00	7,254.00	8,067.05	7,168.00	33.06	37.70	-84.38	-1,377.07	-722.35	878.39	809.87	68.52	12.819				
8,000.00	7,254.00	8,167.05	7,168.00	34.80	39.21	-84.38	-1,377.90	-822.35	878.40	806.34	72.06	12.190				
8,100.00	7,254.00	8,267.05	7,168.00	36.66	40.90	-84.38	-1,378.73	-922.35	878.40	802.58	75.82	11.586				
8,200.00	7,254.00	8,367.05	7,168.00	38.62	42.75	-84.38	-1,379.57	-1,022.34	878.40	798.63	79.77	11.012				
8,300.00	7,254.00	8,467.05	7,168.00	40.66	44.70	-84.38	-1,380.40	-1,122.34	878.40	794.52	83.88	10.472				
8,400.00	7,254.00	8,567.05	7,168.00	42.78	46.75	-84.38	-1,381.23	-1,222.34	878.41	790.27	88.14	9.966				
8,500.00	7,254.00	8,667.05	7,168.00	44.97	48.88	-84.38	-1,382.07	-1,322.33	878.41	785.89	92.52	9.495				
8,600.00	7,254.00	8,767.05	7,168.00	47.21	51.06	-84.38	-1,382.90	-1,422.33	878.41	781.41	97.00	9.056				
8,700.00	7,254.00	8,867.05	7,168.00	49.50	53.30	-84.38	-1,383.73	-1,522.33	878.41	776.84	101.58	8.648				
8,800.00	7,254.00	8,967.05	7,168.00	51.83	55.59	-84.38	-1,384.56	-1,622.32	878.42	772.19	106.23	8.269				
8,900.00	7,254.00	9,067.05	7,168.00	54.20	57.91	-84.38	-1,385.40	-1,722.32	878.42	767.46	110.95	7.917				
9,000.00	7,254.00	9,167.05	7,168.00	56.60	60.28	-84.38	-1,386.23	-1,822.32	878.42	762.68	115.74	7.590				
9,100.00	7,254.00	9,267.05	7,168.00	59.03	62.67	-84.38	-1,387.06	-1,922.31	878.42	757.85	120.58	7.285				

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD Reference: Offset											Rule Assigned:		Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference Offset		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning		
9,200.00	7,254.00	9,367.05	7,168.00	61.48	65.08	-84.38	-1,387.89	-2,022.31	878.43	752.96	125.46	7.001			
9,300.00	7,254.00	9,467.05	7,168.00	63.95	67.53	-84.38	-1,388.73	-2,122.30	878.43	748.04	130.39	6.737			
9,400.00	7,254.00	9,567.05	7,168.00	66.44	69.99	-84.38	-1,389.56	-2,222.30	878.43	743.07	135.36	6.490			
9,500.00	7,254.00	9,667.05	7,168.00	68.96	72.47	-84.38	-1,390.39	-2,322.30	878.43	738.08	140.36	6.259			
9,600.00	7,254.00	9,767.05	7,168.00	71.48	74.97	-84.38	-1,391.23	-2,422.29	878.44	733.05	145.38	6.042			
9,700.00	7,254.00	9,867.05	7,168.00	74.02	77.48	-84.38	-1,392.06	-2,522.29	878.44	728.00	150.44	5.839			
9,800.00	7,254.00	9,967.05	7,168.00	76.57	80.01	-84.38	-1,392.89	-2,622.29	878.44	722.92	155.52	5.648			
9,900.00	7,254.00	10,067.05	7,168.00	79.14	82.55	-84.38	-1,393.72	-2,722.28	878.44	717.82	160.62	5.469			
10,000.00	7,254.00	10,167.05	7,168.00	81.71	85.10	-84.38	-1,394.56	-2,822.28	878.45	712.70	165.75	5.300			
10,100.00	7,254.00	10,267.05	7,168.00	84.29	87.66	-84.38	-1,395.39	-2,922.28	878.45	707.56	170.89	5.140			
10,200.00	7,254.00	10,367.05	7,168.00	86.88	90.23	-84.38	-1,396.22	-3,022.27	878.45	702.40	176.05	4.990			
10,300.00	7,254.00	10,467.05	7,168.00	89.48	92.81	-84.38	-1,397.05	-3,122.27	878.45	697.23	181.22	4.847			
10,400.00	7,254.00	10,567.05	7,168.00	92.09	95.40	-84.38	-1,397.89	-3,222.27	878.46	692.05	186.41	4.713			
10,500.00	7,254.00	10,667.05	7,168.00	94.70	97.99	-84.38	-1,398.72	-3,322.26	878.46	686.85	191.61	4.585			
10,600.00	7,254.00	10,767.05	7,168.00	97.32	100.59	-84.38	-1,399.55	-3,422.26	878.46	681.64	196.82	4.463			
10,700.00	7,254.00	10,867.05	7,168.00	99.95	103.20	-84.38	-1,400.39	-3,522.26	878.46	676.42	202.04	4.348			
10,800.00	7,254.00	10,967.05	7,168.00	102.58	105.81	-84.38	-1,401.22	-3,622.25	878.47	671.19	207.27	4.238			
10,900.00	7,254.00	11,067.05	7,168.00	105.21	108.43	-84.38	-1,402.05	-3,722.25	878.47	665.95	212.51	4.134			
11,000.00	7,254.00	11,167.05	7,168.00	107.85	111.06	-84.38	-1,402.88	-3,822.25	878.47	660.71	217.76	4.034			
11,100.00	7,254.00	11,267.05	7,168.00	110.49	113.69	-84.38	-1,403.72	-3,922.24	878.47	655.45	223.02	3.939			
11,200.00	7,254.00	11,367.05	7,168.00	113.14	116.32	-84.38	-1,404.55	-4,022.24	878.48	650.19	228.29	3.848			
11,300.00	7,254.00	11,467.05	7,168.00	115.79	118.95	-84.38	-1,405.38	-4,122.24	878.48	644.92	233.56	3.761			
11,400.00	7,254.00	11,567.05	7,168.00	118.44	121.59	-84.38	-1,406.21	-4,222.23	878.48	639.64	238.84	3.678			
11,500.00	7,254.00	11,667.05	7,168.00	121.09	124.24	-84.38	-1,407.05	-4,322.23	878.48	634.36	244.13	3.598			
11,600.00	7,254.00	11,767.05	7,168.00	123.75	126.89	-84.38	-1,407.88	-4,422.23	878.49	629.07	249.42	3.522			
11,700.00	7,254.00	11,867.05	7,168.00	126.41	129.54	-84.38	-1,408.71	-4,522.22	878.49	623.77	254.71	3.449			
11,800.00	7,254.00	11,967.05	7,168.00	129.08	132.19	-84.38	-1,409.55	-4,622.22	878.49	618.48	260.02	3.379			
11,900.00	7,254.00	12,067.05	7,168.00	131.75	134.84	-84.38	-1,410.38	-4,722.21	878.49	613.17	265.32	3.311			
12,000.00	7,254.00	12,167.05	7,168.00	134.41	137.50	-84.38	-1,411.21	-4,822.21	878.50	607.86	270.63	3.246			
12,100.00	7,254.00	12,267.05	7,168.00	137.08	140.16	-84.38	-1,412.04	-4,922.21	878.50	602.55	275.95	3.184			
12,200.00	7,254.00	12,367.05	7,168.00	139.76	142.83	-84.38	-1,412.88	-5,022.20	878.50	597.23	281.27	3.123			
12,300.00	7,254.00	12,467.05	7,168.00	142.43	145.49	-84.38	-1,413.71	-5,122.20	878.50	591.91	286.59	3.065			
12,400.00	7,254.00	12,567.05	7,168.00	145.11	148.16	-84.38	-1,414.54	-5,222.20	878.51	586.59	291.91	3.009			
12,500.00	7,254.00	12,667.05	7,168.00	147.79	150.83	-84.38	-1,415.37	-5,322.19	878.51	581.26	297.24	2.956			
12,600.00	7,254.00	12,767.05	7,168.00	150.47	153.50	-84.38	-1,416.21	-5,422.19	878.51	575.93	302.58	2.903			
12,700.00	7,254.00	12,867.05	7,168.00	153.15	156.17	-84.38	-1,417.04	-5,522.19	878.51	570.60	307.91	2.853			
12,800.00	7,254.00	12,967.05	7,168.00	155.83	158.85	-84.38	-1,417.87	-5,622.18	878.52	565.26	313.25	2.805			
12,900.00	7,254.00	13,067.05	7,168.00	158.51	161.52	-84.38	-1,418.70	-5,722.18	878.52	559.93	318.59	2.757			
13,000.00	7,254.00	13,167.05	7,168.00	161.20	164.20	-84.38	-1,419.54	-5,822.18	878.52	554.58	323.94	2.712			
13,100.00	7,254.00	13,267.05	7,168.00	163.88	166.88	-84.38	-1,420.37	-5,922.17	878.52	549.24	329.28	2.668			
13,200.00	7,254.00	13,367.05	7,168.00	166.57	169.56	-84.38	-1,421.20	-6,022.17	878.53	543.89	334.63	2.625			
13,300.00	7,254.00	13,467.05	7,168.00	169.26	172.24	-84.38	-1,422.04	-6,122.17	878.53	538.55	339.98	2.584			
13,400.00	7,254.00	13,567.05	7,168.00	171.95	174.92	-84.38	-1,422.87	-6,222.16	878.53	533.20	345.33	2.544			
13,500.00	7,254.00	13,667.05	7,168.00	174.64	177.61	-84.38	-1,423.70	-6,322.16	878.53	527.84	350.69	2.505			
13,600.00	7,254.00	13,767.05	7,168.00	177.33	180.29	-84.38	-1,424.53	-6,422.16	878.54	522.49	356.05	2.467			
13,700.00	7,254.00	13,867.05	7,168.00	180.02	182.98	-84.38	-1,425.37	-6,522.15	878.54	517.13	361.40	2.431			
13,800.00	7,254.00	13,967.05	7,168.00	182.72	185.67	-84.38	-1,426.20	-6,622.15	878.54	511.78	366.76	2.395			
13,900.00	7,254.00	14,067.05	7,168.00	185.41	188.36	-84.38	-1,427.03	-6,722.15	878.54	506.42	372.13	2.361			
14,000.00	7,254.00	14,167.05	7,168.00	188.11	191.04	-84.38	-1,427.86	-6,822.14	878.55	501.05	377.49	2.327			
14,100.00	7,254.00	14,267.05	7,168.00	190.80	193.74	-84.38	-1,428.70	-6,922.14	878.55	495.69	382.86	2.295			
14,200.00	7,254.00	14,367.05	7,168.00	193.50	196.43	-84.38	-1,429.53	-7,022.14	878.55	490.33	388.22	2.263			
14,300.00	7,254.00	14,467.05	7,168.00	196.19	199.12	-84.38	-1,430.36	-7,122.13	878.55	484.96	393.59	2.232			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft			
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft			
Reference				Offset			Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,400.00	7,254.00	14,567.05	7,168.00	198.89	201.81	-84.38		-84.38	-1,431.20	-7,222.13	878.56	479.60	398.96	2.202			
14,500.00	7,254.00	14,667.05	7,168.00	201.59	204.50	-84.38		-84.38	-1,432.03	-7,322.12	878.56	474.23	404.33	2.173			
14,600.00	7,254.00	14,767.05	7,168.00	204.29	207.20	-84.38		-84.38	-1,432.86	-7,422.12	878.56	468.86	409.70	2.144			
14,700.00	7,254.00	14,867.05	7,168.00	206.99	209.89	-84.38		-84.38	-1,433.69	-7,522.12	878.56	463.49	415.08	2.117			
14,800.00	7,254.00	14,967.05	7,168.00	209.69	212.59	-84.38		-84.38	-1,434.53	-7,622.11	878.57	458.11	420.45	2.090			
14,900.00	7,254.00	15,067.05	7,168.00	212.39	215.28	-84.38		-84.38	-1,435.36	-7,722.11	878.57	452.74	425.83	2.063			
15,000.00	7,254.00	15,167.05	7,168.00	215.09	217.98	-84.38		-84.38	-1,436.19	-7,822.11	878.57	447.37	431.20	2.037			
15,100.00	7,254.00	15,267.05	7,168.00	217.79	220.68	-84.38		-84.38	-1,437.02	-7,922.10	878.57	441.99	436.58	2.012			
15,200.00	7,254.00	15,367.05	7,168.00	220.50	223.38	-84.38		-84.38	-1,437.86	-8,022.10	878.58	436.62	441.96	1.988			
15,300.00	7,254.00	15,467.05	7,168.00	223.20	226.08	-84.38		-84.38	-1,438.69	-8,122.10	878.58	431.24	447.34	1.964			
15,400.00	7,254.00	15,567.05	7,168.00	225.90	228.77	-84.38		-84.38	-1,439.52	-8,222.09	878.58	425.86	452.72	1.941			
15,500.00	7,254.00	15,667.05	7,168.00	228.61	231.47	-84.38		-84.38	-1,440.36	-8,322.09	878.58	420.48	458.10	1.918			
15,510.22	7,254.00	15,677.27	7,168.00	228.88	231.75	-84.38		-84.38	-1,440.44	-8,332.31	878.58	419.93	458.65	1.916			
15,600.00	7,254.00	15,765.69	7,168.00	231.31	234.14	-84.38		-84.38	-1,441.18	-8,420.73	878.59	415.12	463.47	1.896			
15,602.20	7,254.00	15,765.69	7,168.00	231.37	234.14	-84.38		-84.38	-1,441.18	-8,420.73	878.61	415.04	463.57	1.895 SF			

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-47.36	0.00	47.36						
100.00	100.00	100.00	100.00	0.14	0.14	-180.00	-47.36	0.00	47.36	47.07	0.29	165.141			
200.00	200.00	200.00	200.00	0.50	0.50	-180.00	-47.36	0.00	47.36	46.36	1.00	47.183			
300.00	300.00	300.00	300.00	0.86	0.86	-180.00	-47.36	0.00	47.36	45.64	1.72	27.524			
400.00	400.00	400.00	400.00	1.22	1.22	-180.00	-47.36	0.00	47.36	44.92	2.44	19.428	CC, ES		
500.00	500.00	498.47	498.45	1.58	1.56	179.22	-48.91	0.67	48.94	45.81	3.13	15.613			
600.00	600.00	596.70	596.54	1.94	1.89	177.15	-53.56	2.67	53.74	49.91	3.82	14.053			
700.00	700.00	694.47	693.95	2.29	2.23	174.43	-61.25	5.97	61.84	57.32	4.52	13.694			
800.00	799.98	791.77	790.55	2.64	2.60	9.22	-71.93	10.56	71.60	66.42	5.19	13.807			
900.00	899.84	888.74	886.37	2.97	2.98	7.02	-85.57	16.42	81.32	75.48	5.84	13.925			
930.56	930.31	918.31	915.49	3.07	3.11	6.41	-90.32	18.47	84.28	78.24	6.04	13.956			
1,000.00	999.53	985.29	981.23	3.31	3.39	5.07	-102.10	23.53	91.81	85.31	6.50	14.129			
1,100.00	1,099.20	1,081.05	1,074.65	3.66	3.83	3.25	-121.38	31.82	105.52	98.35	7.16	14.735			
1,200.00	1,198.88	1,175.80	1,166.36	4.02	4.30	1.65	-143.28	41.23	122.56	114.75	7.82	15.681			
1,300.00	1,298.56	1,271.51	1,258.24	4.38	4.81	0.30	-167.89	51.81	142.55	134.05	8.50	16.774			
1,400.00	1,398.23	1,369.35	1,352.04	4.75	5.35	-0.76	-193.45	62.80	163.06	153.84	9.22	17.690			
1,500.00	1,497.91	1,467.19	1,445.83	5.12	5.90	-1.58	-219.01	73.79	183.61	173.66	9.94	18.467			
1,600.00	1,597.58	1,565.02	1,539.63	5.49	6.46	-2.24	-244.56	84.77	204.18	193.51	10.67	19.132			
1,700.00	1,697.26	1,662.86	1,633.43	5.86	7.03	-2.78	-270.12	95.76	224.78	213.37	11.41	19.708			
1,800.00	1,796.94	1,760.70	1,727.23	6.23	7.60	-3.23	-295.68	106.75	245.39	233.25	12.14	20.210			
1,900.00	1,896.61	1,858.53	1,821.03	6.61	8.18	-3.60	-321.23	117.73	266.02	253.14	12.88	20.652			
2,000.00	1,996.29	1,956.37	1,914.82	6.99	8.76	-3.93	-346.79	128.72	286.65	273.03	13.62	21.042			
2,100.00	2,095.97	2,054.20	2,008.62	7.37	9.34	-4.21	-372.35	139.70	307.29	292.93	14.37	21.390			
2,200.00	2,195.64	2,152.04	2,102.42	7.75	9.92	-4.45	-397.91	150.69	327.94	312.83	15.11	21.702			
2,300.00	2,295.32	2,249.88	2,196.22	8.12	10.51	-4.67	-423.46	161.68	348.60	332.74	15.86	21.983			
2,400.00	2,394.99	2,347.71	2,290.01	8.51	11.09	-4.86	-449.02	172.66	369.25	352.65	16.61	22.237			
2,500.00	2,494.67	2,445.55	2,383.81	8.89	11.68	-5.03	-474.58	183.65	389.91	372.56	17.35	22.468			
2,600.00	2,594.35	2,543.38	2,477.61	9.27	12.27	-5.18	-500.13	194.64	410.58	392.48	18.10	22.679			
2,700.00	2,694.02	2,641.22	2,571.41	9.65	12.86	-5.32	-525.69	205.62	431.25	412.39	18.85	22.873			
2,800.00	2,793.70	2,739.06	2,665.21	10.03	13.45	-5.45	-551.25	216.61	451.91	432.31	19.61	23.051			
2,900.00	2,893.38	2,836.89	2,759.00	10.41	14.05	-5.56	-576.80	227.59	472.59	452.23	20.36	23.215			
3,000.00	2,993.05	2,934.73	2,852.80	10.80	14.64	-5.67	-602.36	238.58	493.26	472.15	21.11	23.366			
3,100.00	3,092.73	3,032.56	2,946.60	11.18	15.23	-5.77	-627.92	249.57	513.93	492.07	21.86	23.507			
3,200.00	3,192.41	3,130.40	3,040.40	11.56	15.82	-5.86	-653.48	260.55	534.61	511.99	22.62	23.638			
3,300.00	3,292.08	3,228.24	3,134.20	11.94	16.42	-5.94	-679.03	271.54	555.28	531.91	23.37	23.760			
3,400.00	3,391.76	3,326.07	3,227.99	12.33	17.01	-6.02	-704.59	282.53	575.96	551.84	24.12	23.874			
3,500.00	3,491.43	3,423.91	3,321.79	12.71	17.61	-6.09	-730.15	293.51	596.64	571.76	24.88	23.981			
3,600.00	3,591.11	3,521.74	3,415.59	13.09	18.20	-6.15	-755.70	304.50	617.32	591.68	25.63	24.081			
3,700.00	3,690.79	3,619.58	3,509.39	13.48	18.80	-6.22	-781.26	315.49	638.00	611.61	26.39	24.176			
3,800.00	3,790.46	3,717.42	3,603.18	13.86	19.39	-6.28	-806.82	326.47	658.68	631.53	27.15	24.264			
3,900.00	3,890.14	3,815.25	3,696.98	14.25	19.99	-6.33	-832.37	337.46	679.36	651.46	27.90	24.348			
4,000.00	3,989.82	3,913.09	3,790.78	14.63	20.59	-6.38	-857.93	348.44	700.04	671.38	28.66	24.427			
4,100.00	4,089.49	4,010.92	3,884.58	15.01	21.18	-6.43	-883.49	359.43	720.72	691.31	29.41	24.502			
4,200.00	4,189.17	4,108.76	3,978.38	15.40	21.78	-6.48	-909.05	370.42	741.41	711.24	30.17	24.573			
4,300.00	4,288.84	4,206.60	4,072.17	15.78	22.38	-6.52	-934.60	381.40	762.09	731.16	30.93	24.640			
4,400.00	4,388.52	4,304.43	4,165.97	16.17	22.97	-6.56	-960.16	392.39	782.77	751.09	31.69	24.704			
4,500.00	4,488.20	4,402.27	4,259.77	16.55	23.57	-6.60	-985.72	403.38	803.46	771.02	32.44	24.765			
4,600.00	4,587.87	4,500.10	4,353.57	16.94	24.17	-6.64	-1,011.27	414.36	824.14	790.94	33.20	24.823			
4,700.00	4,687.55	4,597.94	4,447.36	17.32	24.76	-6.67	-1,036.83	425.35	844.83	810.87	33.96	24.878			
4,800.00	4,787.23	4,695.78	4,541.16	17.71	25.36	-6.71	-1,062.39	436.33	865.51	830.80	34.72	24.931			
4,900.00	4,886.90	4,793.61	4,634.96	18.09	25.96	-6.74	-1,087.94	447.32	886.20	850.72	35.47	24.981			
5,000.00	4,986.58	4,891.45	4,728.76	18.48	26.56	-6.77	-1,113.50	458.31	906.88	870.65	36.23	25.030			

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

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

Offset Design:		SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:
Survey Program:		0-OWSG (Rev2) MWD Offset							Rule Assigned:					Offset Well Error:
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	
5,100.00	5,086.26	4,989.28	4,822.56	18.86	27.15	-6.80	-1,139.06	469.29	927.57	890.58	36.99	25.076		
5,200.00	5,185.93	5,087.12	4,916.35	19.25	27.75	-6.83	-1,164.62	480.28	948.26	910.51	37.75	25.120		
5,300.00	5,285.61	5,184.96	5,010.15	19.63	28.35	-6.86	-1,190.17	491.27	968.94	930.43	38.51	25.162		
5,400.00	5,385.28	5,282.79	5,103.95	20.02	28.95	-6.88	-1,215.73	502.25	989.63	950.36	39.27	25.203		
5,500.00	5,484.96	5,380.63	5,197.75	20.40	29.55	-6.91	-1,241.29	513.24	1,010.31	970.29	40.03	25.242		
5,600.00	5,584.64	5,478.46	5,291.54	20.79	30.14	-6.93	-1,266.84	524.22	1,031.00	990.22	40.78	25.279		
5,700.00	5,684.31	5,576.30	5,385.34	21.17	30.74	-6.95	-1,292.40	535.21	1,051.69	1,010.14	41.54	25.315		
5,800.00	5,783.99	5,674.14	5,479.14	21.56	31.34	-6.97	-1,317.96	546.20	1,072.38	1,030.07	42.30	25.350		
5,900.00	5,883.67	5,771.97	5,572.94	21.94	31.94	-6.99	-1,343.52	557.18	1,093.06	1,050.00	43.06	25.383		
6,000.00	5,983.34	5,869.81	5,666.74	22.33	32.54	-7.02	-1,369.07	568.17	1,113.75	1,069.93	43.82	25.416		
6,100.00	6,083.02	5,967.64	5,760.53	22.71	33.14	-7.03	-1,394.63	579.16	1,134.44	1,089.86	44.58	25.447		
6,200.00	6,182.69	6,065.48	5,854.33	23.10	33.73	-7.05	-1,420.19	590.14	1,155.12	1,109.78	45.34	25.477		
6,300.00	6,282.37	6,163.32	5,948.13	23.48	34.33	-7.07	-1,445.74	601.13	1,175.81	1,129.71	46.10	25.506		
6,400.00	6,382.05	6,261.15	6,041.93	23.87	34.93	-7.09	-1,471.30	612.11	1,196.50	1,149.64	46.86	25.533		
6,500.00	6,481.72	6,358.99	6,135.73	24.25	35.53	-7.11	-1,496.86	623.10	1,217.19	1,169.57	47.62	25.560		
6,600.00	6,581.40	6,456.82	6,229.52	24.64	36.13	-7.12	-1,522.41	634.09	1,237.88	1,189.50	48.38	25.586		
6,688.27	6,669.38	6,543.18	6,312.31	24.98	36.66	-7.14	-1,544.97	643.78	1,256.14	1,207.09	49.05	25.609		
6,700.00	6,681.08	6,554.65	6,323.31	25.02	36.73	-21.61	-1,547.97	645.07	1,258.61	1,209.47	49.14	25.612		
6,750.00	6,730.87	6,603.17	6,369.83	25.21	37.02	-70.33	-1,560.64	650.52	1,270.21	1,220.69	49.52	25.650		
6,800.00	6,780.30	6,650.86	6,415.55	25.38	37.32	-87.55	-1,573.10	655.88	1,283.47	1,233.57	49.90	25.723		
6,850.00	6,828.99	6,697.34	6,460.11	25.54	37.60	-94.13	-1,585.24	661.10	1,298.35	1,248.08	50.27	25.828		
6,900.00	6,876.56	6,742.27	6,503.19	25.69	37.88	-97.09	-1,596.98	666.14	1,314.83	1,264.19	50.64	25.963		
6,950.00	6,922.66	6,785.31	6,544.45	25.83	38.14	-98.43	-1,608.22	670.97	1,332.91	1,281.89	51.02	26.125		
7,000.00	6,966.93	6,826.12	6,583.58	25.96	38.39	-98.86	-1,618.88	675.56	1,352.58	1,301.18	51.40	26.313		
7,050.00	7,009.04	7,912.92	7,254.00	26.08	40.05	-90.92	-1,807.45	49.94	1,352.22	1,297.99	54.24	24.933		
7,100.00	7,048.66	7,943.23	7,254.00	26.19	40.02	-91.68	-1,807.70	19.63	1,342.59	1,287.47	55.12	24.357		
7,150.00	7,085.51	7,976.89	7,254.00	26.30	39.98	-92.04	-1,807.98	-14.03	1,334.63	1,278.63	56.00	23.833		
7,200.00	7,119.28	8,013.65	7,254.00	26.39	39.95	-92.09	-1,808.29	-50.78	1,328.20	1,271.29	56.91	23.339		
7,250.00	7,149.73	8,053.21	7,254.00	26.49	39.91	-91.93	-1,808.62	-90.35	1,323.12	1,265.24	57.87	22.862		
7,300.00	7,176.63	8,095.29	7,254.00	26.60	39.89	-91.63	-1,808.97	-132.42	1,319.20	1,260.34	58.86	22.412		
7,350.00	7,199.77	8,139.56	7,254.00	26.76	39.86	-91.26	-1,809.34	-176.69	1,316.26	1,256.32	59.95	21.958		
7,400.00	7,218.98	8,185.68	7,254.00	26.99	39.87	-90.88	-1,809.73	-222.81	1,314.14	1,253.07	61.07	21.519		
7,450.00	7,234.10	8,233.31	7,254.00	27.33	39.87	-90.53	-1,810.13	-270.44	1,312.66	1,250.38	62.28	21.078		
7,500.00	7,245.03	8,282.08	7,254.00	27.75	39.91	-90.25	-1,810.54	-319.21	1,311.70	1,248.15	63.55	20.642		
7,550.00	7,251.68	8,331.62	7,254.00	28.25	40.01	-90.07	-1,810.95	-368.74	1,311.16	1,246.27	64.89	20.207		
7,600.00	7,254.00	8,381.55	7,254.00	28.79	40.19	-90.00	-1,811.37	-418.67	1,310.98	1,244.70	66.28	19.781		
7,601.15	7,254.00	8,382.70	7,254.00	28.80	40.19	-90.00	-1,811.38	-419.82	1,310.98	1,244.67	66.31	19.771		
7,601.67	7,254.00	8,383.21	7,254.00	28.81	40.20	-90.00	-1,811.38	-420.34	1,310.98	1,244.66	66.32	19.767		
7,700.00	7,254.00	8,481.55	7,254.00	30.03	41.01	-90.00	-1,812.21	-518.67	1,310.99	1,241.72	69.26	18.928		
7,800.00	7,254.00	8,581.55	7,254.00	31.47	42.47	-90.00	-1,813.04	-618.66	1,310.99	1,238.45	72.54	18.072		
7,900.00	7,254.00	8,681.55	7,254.00	33.06	44.26	-90.00	-1,813.88	-718.66	1,311.00	1,234.92	76.08	17.231		
8,000.00	7,254.00	8,781.55	7,254.00	34.80	46.21	-90.00	-1,814.72	-818.65	1,311.01	1,231.17	79.84	16.420		
8,100.00	7,254.00	8,881.55	7,254.00	36.66	48.26	-90.00	-1,815.56	-918.65	1,311.01	1,227.22	83.79	15.646		
8,200.00	7,254.00	8,981.55	7,254.00	38.62	50.38	-90.00	-1,816.39	-1,018.65	1,311.02	1,223.12	87.91	14.914		
8,300.00	7,254.00	9,081.55	7,254.00	40.66	52.56	-90.00	-1,817.23	-1,118.64	1,311.03	1,218.87	92.16	14.225		
8,400.00	7,254.00	9,181.55	7,254.00	42.78	54.80	-90.00	-1,818.07	-1,218.64	1,311.03	1,214.49	96.54	13.580		
8,500.00	7,254.00	9,281.55	7,254.00	44.97	57.07	-90.00	-1,818.90	-1,318.64	1,311.04	1,210.02	101.02	12.977		
8,600.00	7,254.00	9,381.55	7,254.00	47.21	59.39	-90.00	-1,819.74	-1,418.63	1,311.05	1,205.45	105.60	12.415		
8,700.00	7,254.00	9,481.55	7,254.00	49.50	61.74	-90.00	-1,820.58	-1,518.63	1,311.06	1,200.80	110.26	11.891		
8,800.00	7,254.00	9,581.55	7,254.00	51.83	64.11	-90.00	-1,821.41	-1,618.63	1,311.06	1,196.08	114.99	11.402		
8,900.00	7,254.00	9,681.55	7,254.00	54.20	66.51	-90.00	-1,822.25	-1,718.62	1,311.07	1,191.29	119.78	10.946		
9,000.00	7,254.00	9,781.55	7,254.00	56.60	68.94	-90.00	-1,823.09	-1,818.62	1,311.08	1,186.46	124.62	10.521		

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD								Rule Assigned:				Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,100.00	7,254.00	9,881.55	7,254.00	59.03	71.38	-90.00	-1,823.93	-1,918.62	1,311.08	1,181.57	129.51	10.123		
9,200.00	7,254.00	9,981.55	7,254.00	61.48	73.85	-90.00	-1,824.76	-2,018.61	1,311.09	1,176.64	134.45	9.752		
9,300.00	7,254.00	10,081.55	7,254.00	63.95	76.33	-90.00	-1,825.60	-2,118.61	1,311.10	1,171.68	139.42	9.404		
9,400.00	7,254.00	10,181.55	7,254.00	66.44	78.83	-90.00	-1,826.44	-2,218.61	1,311.10	1,166.68	144.43	9.078		
9,500.00	7,254.00	10,281.55	7,254.00	68.96	81.34	-90.00	-1,827.27	-2,318.60	1,311.11	1,161.65	149.46	8.772		
9,600.00	7,254.00	10,381.55	7,254.00	71.48	83.86	-90.00	-1,828.11	-2,418.60	1,311.12	1,156.59	154.53	8.485		
9,700.00	7,254.00	10,481.55	7,254.00	74.02	86.40	-90.00	-1,828.95	-2,518.60	1,311.12	1,151.50	159.62	8.214		
9,800.00	7,254.00	10,581.55	7,254.00	76.57	88.94	-90.00	-1,829.79	-2,618.59	1,311.13	1,146.40	164.73	7.959		
9,900.00	7,254.00	10,681.55	7,254.00	79.14	91.50	-90.00	-1,830.62	-2,718.59	1,311.14	1,141.27	169.87	7.719		
10,000.00	7,254.00	10,781.55	7,254.00	81.71	94.06	-90.00	-1,831.46	-2,818.58	1,311.14	1,136.12	175.02	7.491		
10,100.00	7,254.00	10,881.55	7,254.00	84.29	96.63	-90.00	-1,832.30	-2,918.58	1,311.15	1,130.96	180.19	7.276		
10,200.00	7,254.00	10,981.55	7,254.00	86.88	99.22	-90.00	-1,833.13	-3,018.58	1,311.16	1,125.78	185.38	7.073		
10,300.00	7,254.00	11,081.55	7,254.00	89.48	101.80	-90.00	-1,833.97	-3,118.57	1,311.17	1,120.59	190.58	6.880		
10,400.00	7,254.00	11,181.55	7,254.00	92.09	104.40	-90.00	-1,834.81	-3,218.57	1,311.17	1,115.38	195.79	6.697		
10,500.00	7,254.00	11,281.55	7,254.00	94.70	107.00	-90.00	-1,835.65	-3,318.57	1,311.18	1,110.16	201.02	6.523		
10,600.00	7,254.00	11,381.55	7,254.00	97.32	109.60	-90.00	-1,836.48	-3,418.56	1,311.19	1,104.93	206.25	6.357		
10,700.00	7,254.00	11,481.55	7,254.00	99.95	112.22	-90.00	-1,837.32	-3,518.56	1,311.19	1,099.69	211.50	6.199		
10,800.00	7,254.00	11,581.55	7,254.00	102.58	114.83	-90.00	-1,838.16	-3,618.56	1,311.20	1,094.44	216.76	6.049		
10,900.00	7,254.00	11,681.55	7,254.00	105.21	117.45	-90.00	-1,838.99	-3,718.55	1,311.21	1,089.18	222.02	5.906		
11,000.00	7,254.00	11,781.55	7,254.00	107.85	120.08	-90.00	-1,839.83	-3,818.55	1,311.21	1,083.91	227.30	5.769		
11,100.00	7,254.00	11,881.55	7,254.00	110.49	122.71	-90.00	-1,840.67	-3,918.55	1,311.22	1,078.64	232.58	5.638		
11,200.00	7,254.00	11,981.55	7,254.00	113.14	125.34	-90.00	-1,841.50	-4,018.54	1,311.23	1,073.36	237.87	5.512		
11,300.00	7,254.00	12,081.55	7,254.00	115.79	127.98	-90.00	-1,842.34	-4,118.54	1,311.23	1,068.07	243.17	5.392		
11,400.00	7,254.00	12,181.55	7,254.00	118.44	130.62	-90.00	-1,843.18	-4,218.54	1,311.24	1,062.77	248.47	5.277		
11,500.00	7,254.00	12,281.55	7,254.00	121.09	133.26	-90.00	-1,844.02	-4,318.53	1,311.25	1,057.47	253.78	5.167		
11,600.00	7,254.00	12,381.55	7,254.00	123.75	135.91	-90.00	-1,844.85	-4,418.53	1,311.25	1,052.16	259.09	5.061		
11,700.00	7,254.00	12,481.55	7,254.00	126.41	138.56	-90.00	-1,845.69	-4,518.53	1,311.26	1,046.85	264.41	4.959		
11,800.00	7,254.00	12,581.55	7,254.00	129.08	141.21	-90.00	-1,846.53	-4,618.52	1,311.27	1,041.53	269.74	4.861		
11,900.00	7,254.00	12,681.55	7,254.00	131.75	143.86	-90.00	-1,847.36	-4,718.52	1,311.28	1,036.21	275.07	4.767		
12,000.00	7,254.00	12,781.55	7,254.00	134.41	146.52	-90.00	-1,848.20	-4,818.51	1,311.28	1,030.88	280.40	4.676		
12,100.00	7,254.00	12,881.55	7,254.00	137.08	149.18	-90.00	-1,849.04	-4,918.51	1,311.29	1,025.55	285.74	4.589		
12,200.00	7,254.00	12,981.55	7,254.00	139.76	151.84	-90.00	-1,849.88	-5,018.51	1,311.30	1,020.22	291.08	4.505		
12,300.00	7,254.00	13,081.55	7,254.00	142.43	154.51	-90.00	-1,850.71	-5,118.50	1,311.30	1,014.88	296.42	4.424		
12,400.00	7,254.00	13,181.55	7,254.00	145.11	157.17	-90.00	-1,851.55	-5,218.50	1,311.31	1,009.54	301.77	4.345		
12,500.00	7,254.00	13,281.55	7,254.00	147.79	159.84	-90.00	-1,852.39	-5,318.50	1,311.32	1,004.19	307.12	4.270		
12,600.00	7,254.00	13,381.55	7,254.00	150.47	162.51	-90.00	-1,853.22	-5,418.49	1,311.32	998.84	312.48	4.197		
12,700.00	7,254.00	13,481.55	7,254.00	153.15	165.18	-90.00	-1,854.06	-5,518.49	1,311.33	993.49	317.84	4.126		
12,800.00	7,254.00	13,581.55	7,254.00	155.83	167.85	-90.00	-1,854.90	-5,618.49	1,311.34	988.14	323.20	4.057		
12,900.00	7,254.00	13,681.55	7,254.00	158.51	170.52	-90.00	-1,855.74	-5,718.48	1,311.34	982.78	328.56	3.991		
13,000.00	7,254.00	13,781.55	7,254.00	161.20	173.20	-90.00	-1,856.57	-5,818.48	1,311.35	977.42	333.93	3.927		
13,100.00	7,254.00	13,881.55	7,254.00	163.88	175.88	-90.00	-1,857.41	-5,918.48	1,311.36	972.06	339.30	3.865		
13,200.00	7,254.00	13,981.55	7,254.00	166.57	178.55	-90.00	-1,858.25	-6,018.47	1,311.36	966.70	344.67	3.805		
13,300.00	7,254.00	14,081.55	7,254.00	169.26	181.23	-90.00	-1,859.09	-6,118.47	1,311.37	961.33	350.04	3.746		
13,400.00	7,254.00	14,181.55	7,254.00	171.95	183.91	-90.00	-1,859.92	-6,218.47	1,311.38	955.96	355.42	3.690		
13,500.00	7,254.00	14,281.55	7,254.00	174.64	186.60	-90.00	-1,860.76	-6,318.46	1,311.39	950.59	360.80	3.635		
13,600.00	7,254.00	14,381.55	7,254.00	177.33	189.28	-90.00	-1,861.60	-6,418.46	1,311.39	945.22	366.18	3.581		
13,700.00	7,254.00	14,481.55	7,254.00	180.02	191.96	-90.00	-1,862.43	-6,518.46	1,311.40	939.84	371.56	3.529		
13,800.00	7,254.00	14,581.55	7,254.00	182.72	194.65	-90.00	-1,863.27	-6,618.45	1,311.41	934.47	376.94	3.479		
13,900.00	7,254.00	14,681.55	7,254.00	185.41	197.33	-90.00	-1,864.11	-6,718.45	1,311.41	929.09	382.32	3.430		
14,000.00	7,254.00	14,781.55	7,254.00	188.11	200.02	-90.00	-1,864.94	-6,818.44	1,311.42	923.71	387.71	3.382		
14,100.00	7,254.00	14,881.55	7,254.00	190.80	202.71	-90.00	-1,865.78	-6,918.44	1,311.43	918.33	393.10	3.336		
14,200.00	7,254.00	14,981.55	7,254.00	193.50	205.40	-90.00	-1,866.62	-7,018.44	1,311.43	912.94	398.49	3.291		

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft			
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft			
Reference				Offset			Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,300.00	7,254.00	15,081.55	7,254.00	196.19	208.09	-90.00		-90.00	-1,867.45	-7,118.43	1,311.44	907.56	403.88	3.247			
14,400.00	7,254.00	15,181.55	7,254.00	198.89	210.78	-90.00		-90.00	-1,868.29	-7,218.43	1,311.45	902.18	409.27	3.204			
14,500.00	7,254.00	15,281.55	7,254.00	201.59	213.47	-90.00		-90.00	-1,869.13	-7,318.43	1,311.45	896.79	414.67	3.163			
14,600.00	7,254.00	15,381.55	7,254.00	204.29	216.16	-90.00		-90.00	-1,869.97	-7,418.42	1,311.46	891.40	420.06	3.122			
14,700.00	7,254.00	15,481.55	7,254.00	206.99	218.85	-90.00		-90.00	-1,870.80	-7,518.42	1,311.47	886.01	425.46	3.082			
14,800.00	7,254.00	15,581.55	7,254.00	209.69	221.54	-90.00		-90.00	-1,871.64	-7,618.42	1,311.48	880.62	430.85	3.044			
14,900.00	7,254.00	15,681.55	7,254.00	212.39	224.24	-90.00		-90.00	-1,872.48	-7,718.41	1,311.48	875.23	436.25	3.006			
15,000.00	7,254.00	15,781.55	7,254.00	215.09	226.93	-90.00		-90.00	-1,873.31	-7,818.41	1,311.49	869.84	441.65	2.969			
15,100.00	7,254.00	15,881.55	7,254.00	217.79	229.63	-90.00		-90.00	-1,874.15	-7,918.41	1,311.50	864.44	447.05	2.934			
15,200.00	7,254.00	15,981.55	7,254.00	220.50	232.32	-90.00		-90.00	-1,874.99	-8,018.40	1,311.50	859.05	452.46	2.899			
15,300.00	7,254.00	16,081.55	7,254.00	223.20	235.02	-90.00		-90.00	-1,875.83	-8,118.40	1,311.51	853.65	457.86	2.864			
15,400.00	7,254.00	16,181.55	7,254.00	225.90	237.72	-90.00		-90.00	-1,876.66	-8,218.40	1,311.52	848.25	463.26	2.831			
15,500.00	7,254.00	16,281.55	7,254.00	228.61	240.41	-90.00		-90.00	-1,877.50	-8,318.39	1,311.52	842.86	468.67	2.798			
15,600.00	7,254.00	16,381.25	7,254.00	231.31	243.10	-90.00		-90.00	-1,878.33	-8,418.09	1,311.53	837.46	474.07	2.767			
15,602.20	7,254.00	16,381.25	7,254.00	231.37	243.10	-90.00		-90.00	-1,878.33	-8,418.09	1,311.55	837.39	474.15	2.766 SF			

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Separation Factor	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)					
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-61.93	0.00	61.93	61.64	0.29	215.939				
100.00	100.00	100.00	100.00	0.14	0.14	-180.00	-61.93	0.00	61.93	60.92	1.00	61.697				
200.00	200.00	200.00	200.00	0.50	0.50	-180.00	-61.93	0.00	61.93	60.21	1.72	35.990 CC, ES				
300.00	300.00	300.00	300.00	0.86	0.86	-180.00	-61.93	0.00	61.93	61.13	2.42	26.284				
400.00	400.00	397.96	397.94	1.22	1.20	179.51	-63.51	0.54	63.55	65.32	3.11	22.004				
500.00	500.00	495.69	495.53	1.58	1.53	178.18	-68.25	2.16	68.43	72.81	3.81	20.134				
600.00	600.00	592.96	592.45	1.94	1.88	176.36	-76.09	4.85	76.61	83.64	4.50	19.590				
700.00	700.00	689.56	688.36	2.29	2.25	174.37	-86.95	8.56	88.14	96.14	5.17	19.601				
800.00	799.98	785.55	783.23	2.64	2.64	9.99	-100.76	13.29	101.31	108.58	5.82	19.652				
900.00	899.84	881.12	877.14	2.97	3.05	8.60	-117.50	19.02	114.40	112.36	6.02	19.669				
930.56	930.31	910.24	905.64	3.07	3.18	8.23	-123.19	20.97	118.38	121.72	6.48	19.787				
1,000.00	999.53	976.16	969.90	3.31	3.50	7.45	-137.07	25.72	128.19	137.96	7.14	20.315				
1,100.00	1,099.20	1,070.25	1,061.00	3.66	3.97	6.36	-159.31	33.33	145.10	157.45	7.80	21.197				
1,200.00	1,198.88	1,163.18	1,150.17	4.02	4.48	5.38	-184.03	41.79	165.24	180.10	8.45	22.314				
1,300.00	1,298.56	1,254.77	1,237.19	4.38	5.01	4.51	-211.07	51.05	188.55	205.59	9.13	23.530				
1,400.00	1,398.23	1,347.47	1,324.37	4.75	5.59	3.75	-240.88	61.25	214.72	231.63	9.85	24.505				
1,500.00	1,497.91	1,443.79	1,414.77	5.12	6.21	3.12	-272.35	72.02	241.49	257.69	10.59	25.334				
1,600.00	1,597.58	1,540.11	1,505.16	5.49	6.85	2.61	-303.81	82.79	268.28	283.76	11.33	26.047				
1,700.00	1,697.26	1,636.43	1,595.56	5.86	7.49	2.20	-335.28	93.56	295.09	309.83	12.07	26.665				
1,800.00	1,796.94	1,732.75	1,685.95	6.23	8.13	1.85	-366.75	104.34	321.91	335.92	12.82	27.206				
1,900.00	1,896.61	1,829.07	1,776.35	6.61	8.78	1.56	-398.22	115.11	348.73	362.00	13.57	27.682				
2,000.00	1,996.29	1,925.39	1,866.74	6.99	9.44	1.31	-429.69	125.88	375.57	388.09	14.32	28.104				
2,100.00	2,095.97	2,021.71	1,957.14	7.37	10.10	1.09	-461.16	136.65	402.41	414.19	15.07	28.481				
2,200.00	2,195.64	2,118.03	2,047.53	7.75	10.76	0.90	-492.63	147.42	429.26	440.28	15.83	28.820				
2,300.00	2,295.32	2,214.35	2,137.93	8.12	11.42	0.74	-524.10	158.19	456.11	466.38	16.58	29.125				
2,400.00	2,394.99	2,310.67	2,228.32	8.51	12.08	0.59	-555.56	168.96	482.96	492.48	17.34	29.402				
2,500.00	2,494.67	2,406.99	2,318.72	8.89	12.75	0.46	-587.03	179.73	509.82	518.58	18.10	29.654				
2,600.00	2,594.35	2,503.31	2,409.11	9.27	13.42	0.34	-618.50	190.50	536.67	544.68	18.86	29.884				
2,700.00	2,694.02	2,599.63	2,499.51	9.65	14.08	0.23	-649.97	201.28	563.53	570.78	19.62	30.095				
2,800.00	2,793.70	2,695.95	2,589.90	10.03	14.75	0.13	-681.44	212.05	590.39	596.88	20.38	30.290				
2,900.00	2,893.38	2,792.27	2,680.30	10.41	15.42	0.04	-712.91	222.82	617.26	622.98	21.14	30.469				
3,000.00	2,993.05	2,888.59	2,770.69	10.80	16.09	-0.04	-744.38	233.59	644.12	649.08	21.90	30.635				
3,100.00	3,092.73	2,984.91	2,861.09	11.18	16.76	-0.12	-775.84	244.36	670.99	675.19	22.67	30.790				
3,200.00	3,192.41	3,081.23	2,951.48	11.56	17.43	-0.19	-807.31	255.13	697.85	701.29	23.43	30.933				
3,300.00	3,292.08	3,177.55	3,041.88	11.94	18.10	-0.25	-838.78	265.90	724.72	727.40	24.19	31.067				
3,400.00	3,391.76	3,273.87	3,132.27	12.33	18.78	-0.31	-870.25	276.67	751.59	753.50	24.96	31.193				
3,500.00	3,491.43	3,370.19	3,222.67	12.71	19.45	-0.37	-901.72	287.44	778.46	779.61	25.72	31.310				
3,600.00	3,591.11	3,466.51	3,313.06	13.09	20.12	-0.42	-933.19	298.22	805.33	805.71	26.49	31.420				
3,700.00	3,690.79	3,562.83	3,403.46	13.48	20.79	-0.47	-964.66	308.99	832.20	831.82	27.25	31.524				
3,800.00	3,790.46	3,659.15	3,493.85	13.86	21.47	-0.52	-996.12	319.76	859.07	857.92	28.02	31.621				
3,900.00	3,890.14	3,755.47	3,584.25	14.25	22.14	-0.56	-1,027.59	330.53	885.94	884.03	28.78	31.713				
4,000.00	3,989.82	3,851.79	3,674.64	14.63	22.81	-0.60	-1,059.06	341.30	912.81	910.13	29.55	31.800				
4,100.00	4,089.49	3,948.11	3,765.04	15.01	23.49	-0.64	-1,090.53	352.07	939.68	936.24	30.32	31.883				
4,200.00	4,189.17	4,044.43	3,855.43	15.40	24.16	-0.68	-1,122.00	362.84	966.56	962.35	31.08	31.961				
4,300.00	4,288.84	4,140.75	3,945.82	15.78	24.84	-0.71	-1,153.47	373.61	993.43	988.45	31.85	32.035				
4,400.00	4,388.52	4,237.07	4,036.22	16.17	25.51	-0.74	-1,184.94	384.38	1,020.30	1,014.56	32.62	32.105				
4,500.00	4,488.20	4,333.39	4,126.61	16.55	26.18	-0.77	-1,216.41	395.16	1,047.17	1,040.66	33.38	32.172				
4,600.00	4,587.87	4,429.71	4,217.01	16.94	26.86	-0.80	-1,247.87	405.93	1,074.05	1,066.77	34.15	32.236				
4,700.00	4,687.55	4,526.03	4,307.40	17.32	27.53	-0.83	-1,279.34	416.70	1,100.92	1,092.88	34.92	32.296				
4,800.00	4,787.23	4,622.35	4,397.80	17.71	28.21	-0.86	-1,310.81	427.47	1,127.80	1,118.98	35.69	32.354				
4,900.00	4,886.90	4,718.67	4,488.19	18.09	28.88	-0.88	-1,342.28	438.24	1,154.67	1,145.09	36.46	32.410				
5,000.00	4,986.58	4,814.99	4,578.59	18.48	29.56	-0.90	-1,373.75	449.01	1,181.54							

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

Summary table with columns: Company, Project, Reference Site, Site Error, Reference Well, Well Error, Reference Wellbore, Reference Design, Local Co-ordinate Reference, TVD Reference, MD Reference, North Reference, Survey Calculation Method, Output errors are at, Database, Offset TVD Reference.

Main data table with columns: Measured Depth, Vertical Depth, Measured Depth, Vertical Depth, Reference, Offset, Highside Toolface, Offset Wellbore Centre (+N/-S, +E/-W), Distance (Between Centres, Between Ellipses), Minimum Separation, Separation Factor, Warning. Includes rows for various depth measurements from 5,100.00 to 9,000.00.

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOSAL #1														Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD												Rule Assigned:		Offset Well Error:		0.00 usft	
Reference				Offset				Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
9,100.00	7,254.00	9,808.22	7,064.00	59.03	71.89	-83.79	-2,260.15	-1,915.69	1,757.62	1,627.79	129.83	13.538					
9,200.00	7,254.00	9,908.22	7,064.00	61.48	74.33	-83.79	-2,260.95	-2,015.68	1,757.58	1,622.87	134.71	13.047					
9,300.00	7,254.00	10,008.22	7,064.00	63.95	76.78	-83.79	-2,261.74	-2,115.68	1,757.55	1,617.91	139.64	12.586					
9,400.00	7,254.00	10,108.22	7,064.00	66.44	79.26	-83.79	-2,262.54	-2,215.68	1,757.52	1,612.91	144.60	12.154					
9,500.00	7,254.00	10,208.22	7,064.00	68.96	81.74	-83.79	-2,263.34	-2,315.68	1,757.48	1,607.89	149.59	11.748					
9,600.00	7,254.00	10,308.22	7,064.00	71.48	84.25	-83.79	-2,264.13	-2,415.67	1,757.45	1,602.83	154.62	11.367					
9,700.00	7,254.00	10,408.22	7,064.00	74.02	86.76	-83.79	-2,264.93	-2,515.67	1,757.41	1,597.75	159.66	11.007					
9,800.00	7,254.00	10,508.22	7,064.00	76.57	89.29	-83.79	-2,265.72	-2,615.67	1,757.38	1,592.64	164.73	10.668					
9,900.00	7,254.00	10,608.22	7,064.00	79.14	91.83	-83.79	-2,266.52	-2,715.66	1,757.34	1,587.52	169.83	10.348					
10,000.00	7,254.00	10,708.22	7,064.00	81.71	94.38	-83.79	-2,267.31	-2,815.66	1,757.31	1,582.37	174.94	10.045					
10,100.00	7,254.00	10,808.22	7,064.00	84.29	96.94	-83.79	-2,268.11	-2,915.66	1,757.28	1,577.21	180.07	9.759					
10,200.00	7,254.00	10,908.22	7,064.00	86.88	99.51	-83.79	-2,268.90	-3,015.65	1,757.24	1,572.03	185.21	9.488					
10,300.00	7,254.00	11,008.22	7,064.00	89.48	102.08	-83.79	-2,269.70	-3,115.65	1,757.21	1,566.83	190.37	9.230					
10,400.00	7,254.00	11,108.22	7,064.00	92.09	104.66	-83.79	-2,270.50	-3,215.65	1,757.17	1,561.63	195.55	8.986					
10,500.00	7,254.00	11,208.22	7,064.00	94.70	107.25	-83.79	-2,271.29	-3,315.64	1,757.14	1,556.41	200.73	8.754					
10,600.00	7,254.00	11,308.22	7,064.00	97.32	109.85	-83.79	-2,272.09	-3,415.64	1,757.10	1,551.17	205.93	8.533					
10,700.00	7,254.00	11,408.22	7,064.00	99.95	112.45	-83.79	-2,272.88	-3,515.64	1,757.07	1,545.93	211.14	8.322					
10,800.00	7,254.00	11,508.22	7,064.00	102.58	115.06	-83.79	-2,273.68	-3,615.63	1,757.03	1,540.68	216.36	8.121					
10,900.00	7,254.00	11,608.22	7,064.00	105.21	117.67	-83.79	-2,274.47	-3,715.63	1,757.00	1,535.42	221.59	7.929					
11,000.00	7,254.00	11,708.22	7,064.00	107.85	120.29	-83.79	-2,275.27	-3,815.63	1,756.97	1,530.14	226.82	7.746					
11,100.00	7,254.00	11,808.22	7,064.00	110.49	122.91	-83.79	-2,276.07	-3,915.62	1,756.93	1,524.86	232.07	7.571					
11,200.00	7,254.00	11,908.22	7,064.00	113.14	125.53	-83.79	-2,276.86	-4,015.62	1,756.90	1,519.58	237.32	7.403					
11,300.00	7,254.00	12,008.22	7,064.00	115.79	128.16	-83.79	-2,277.66	-4,115.62	1,756.86	1,514.28	242.58	7.242					
11,400.00	7,254.00	12,108.22	7,064.00	118.44	130.79	-83.79	-2,278.45	-4,215.62	1,756.83	1,508.98	247.85	7.088					
11,500.00	7,254.00	12,208.22	7,064.00	121.09	133.43	-83.79	-2,279.25	-4,315.61	1,756.79	1,503.68	253.12	6.941					
11,600.00	7,254.00	12,308.22	7,064.00	123.75	136.07	-83.79	-2,280.04	-4,415.61	1,756.76	1,498.37	258.40	6.799					
11,700.00	7,254.00	12,408.22	7,064.00	126.41	138.71	-83.79	-2,280.84	-4,515.61	1,756.73	1,493.05	263.68	6.662					
11,800.00	7,254.00	12,508.22	7,064.00	129.08	141.36	-83.79	-2,281.64	-4,615.60	1,756.69	1,487.72	268.97	6.531					
11,900.00	7,254.00	12,608.22	7,064.00	131.75	144.01	-83.79	-2,282.43	-4,715.60	1,756.66	1,482.40	274.26	6.405					
12,000.00	7,254.00	12,708.22	7,064.00	134.41	146.66	-83.79	-2,283.23	-4,815.60	1,756.62	1,477.06	279.56	6.284					
12,100.00	7,254.00	12,808.22	7,064.00	137.08	149.31	-83.79	-2,284.02	-4,915.59	1,756.59	1,471.73	284.86	6.166					
12,200.00	7,254.00	12,908.22	7,064.00	139.76	151.97	-83.79	-2,284.82	-5,015.59	1,756.55	1,466.39	290.17	6.054					
12,300.00	7,254.00	13,008.22	7,064.00	142.43	154.63	-83.79	-2,285.61	-5,115.59	1,756.52	1,461.04	295.48	5.945					
12,400.00	7,254.00	13,108.22	7,064.00	145.11	157.29	-83.79	-2,286.41	-5,215.58	1,756.49	1,455.69	300.79	5.840					
12,500.00	7,254.00	13,208.22	7,064.00	147.79	159.95	-83.79	-2,287.21	-5,315.58	1,756.45	1,450.34	306.11	5.738					
12,600.00	7,254.00	13,308.22	7,064.00	150.47	162.61	-83.79	-2,288.00	-5,415.58	1,756.42	1,444.99	311.43	5.640					
12,700.00	7,254.00	13,408.22	7,064.00	153.15	165.28	-83.79	-2,288.80	-5,515.57	1,756.38	1,439.63	316.75	5.545					
12,800.00	7,254.00	13,508.22	7,064.00	155.83	167.95	-83.79	-2,289.59	-5,615.57	1,756.35	1,434.27	322.08	5.453					
12,900.00	7,254.00	13,608.22	7,064.00	158.51	170.62	-83.79	-2,290.39	-5,715.57	1,756.31	1,428.90	327.41	5.364					
13,000.00	7,254.00	13,708.22	7,064.00	161.20	173.29	-83.79	-2,291.18	-5,815.56	1,756.28	1,423.54	332.74	5.278					
13,100.00	7,254.00	13,808.22	7,064.00	163.88	175.96	-83.79	-2,291.98	-5,915.56	1,756.25	1,418.17	338.08	5.195					
13,200.00	7,254.00	13,908.22	7,064.00	166.57	178.63	-83.79	-2,292.78	-6,015.56	1,756.21	1,412.80	343.42	5.114					
13,300.00	7,254.00	14,008.22	7,064.00	169.26	181.31	-83.79	-2,293.57	-6,115.55	1,756.18	1,407.42	348.75	5.036					
13,400.00	7,254.00	14,108.22	7,064.00	171.95	183.99	-83.79	-2,294.37	-6,215.55	1,756.14	1,402.05	354.10	4.960					
13,500.00	7,254.00	14,208.22	7,064.00	174.64	186.66	-83.79	-2,295.16	-6,315.55	1,756.11	1,396.67	359.44	4.886					
13,600.00	7,254.00	14,308.22	7,064.00	177.33	189.34	-83.79	-2,295.96	-6,415.55	1,756.07	1,391.29	364.79	4.814					
13,700.00	7,254.00	14,408.22	7,064.00	180.02	192.02	-83.79	-2,296.75	-6,515.54	1,756.04	1,385.91	370.13	4.744					
13,800.00	7,254.00	14,508.22	7,064.00	182.72	194.70	-83.79	-2,297.55	-6,615.54	1,756.01	1,380.52	375.48	4.677					
13,900.00	7,254.00	14,608.22	7,064.00	185.41	197.39	-83.79	-2,298.35	-6,715.54	1,755.97	1,375.14	380.84	4.611					
14,000.00	7,254.00	14,708.22	7,064.00	188.11	200.07	-83.79	-2,299.14	-6,815.53	1,755.94	1,369.75	386.19	4.547					
14,100.00	7,254.00	14,808.22	7,064.00	190.80	202.76	-83.79	-2,299.94	-6,915.53	1,755.90	1,364.36	391.54	4.485					
14,200.00	7,254.00	14,908.22	7,064.00	193.50	205.44	-83.79	-2,300.73	-7,015.53	1,755.87	1,358.97	396.90	4.424					

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,300.00	7,254.00	15,008.22	7,064.00	196.19	208.13	-83.79	-2,301.53	-7,115.52	1,755.83	1,353.58	402.26	4.365			
14,400.00	7,254.00	15,108.22	7,064.00	198.89	210.81	-83.79	-2,302.32	-7,215.52	1,755.80	1,348.18	407.62	4.307			
14,500.00	7,254.00	15,208.22	7,064.00	201.59	213.50	-83.79	-2,303.12	-7,315.52	1,755.77	1,342.79	412.98	4.251			
14,600.00	7,254.00	15,308.22	7,064.00	204.29	216.19	-83.79	-2,303.92	-7,415.51	1,755.73	1,337.39	418.34	4.197			
14,700.00	7,254.00	15,408.22	7,064.00	206.99	218.88	-83.79	-2,304.71	-7,515.51	1,755.70	1,331.99	423.70	4.144			
14,800.00	7,254.00	15,508.22	7,064.00	209.69	221.57	-83.79	-2,305.51	-7,615.51	1,755.66	1,326.59	429.07	4.092			
14,900.00	7,254.00	15,608.22	7,064.00	212.39	224.26	-83.79	-2,306.30	-7,715.50	1,755.63	1,321.19	434.44	4.041			
15,000.00	7,254.00	15,708.22	7,064.00	215.09	226.96	-83.79	-2,307.10	-7,815.50	1,755.59	1,315.79	439.80	3.992			
15,100.00	7,254.00	15,808.22	7,064.00	217.79	229.65	-83.79	-2,307.89	-7,915.50	1,755.56	1,310.39	445.17	3.944			
15,200.00	7,254.00	15,908.22	7,064.00	220.50	232.34	-83.79	-2,308.69	-8,015.49	1,755.53	1,304.99	450.54	3.896			
15,300.00	7,254.00	16,008.22	7,064.00	223.20	235.04	-83.79	-2,309.49	-8,115.49	1,755.49	1,299.58	455.91	3.851			
15,400.00	7,254.00	16,108.22	7,064.00	225.90	237.73	-83.79	-2,310.28	-8,215.49	1,755.46	1,294.18	461.28	3.806			
15,500.00	7,254.00	16,208.22	7,064.00	228.61	240.43	-83.79	-2,311.08	-8,315.49	1,755.42	1,288.77	466.65	3.762			
15,595.94	7,254.00	16,304.16	7,064.00	231.20	243.01	-83.79	-2,311.84	-8,411.42	1,755.39	1,283.58	471.81	3.721			
15,600.00	7,254.00	16,305.41	7,064.00	231.31	243.05	-83.79	-2,311.85	-8,412.67	1,755.39	1,283.41	471.98	3.719			
15,602.20	7,254.00	16,305.41	7,064.00	231.37	243.05	-83.79	-2,311.85	-8,412.67	1,755.41	1,283.34	472.06	3.719 SF			

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSAL #1														Offset Site Error: 0.00 usft
Survey Program: 0-OWSG (Rev2) MWD										Rule Assigned:				Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	-125.51	-21.86	-30.63	37.63					
100.00	100.00	100.00	100.00	0.14	0.14	-125.51	-21.86	-30.63	37.63	37.34	0.29	131.212		
200.00	200.00	200.00	200.00	0.50	0.50	-125.51	-21.86	-30.63	37.63	36.62	1.00	37.489		
300.00	300.00	300.00	300.00	0.86	0.86	-125.51	-21.86	-30.63	37.63	35.91	1.72	21.869		
400.00	400.00	400.00	400.00	1.22	1.22	-125.51	-21.86	-30.63	37.63	35.19	2.44	15.437		
500.00	500.00	500.00	500.00	1.58	1.58	-125.51	-21.86	-30.63	37.63	34.47	3.15	11.928		
600.00	600.00	600.00	600.00	1.94	1.94	-125.51	-21.86	-30.63	37.63	33.76	3.87	9.719		
700.00	700.00	700.00	700.00	2.29	2.29	-125.51	-21.86	-30.63	37.63	33.04	4.59	8.201		
800.00	799.98	799.98	799.98	2.64	2.65	74.44	-21.86	-30.63	37.12	31.83	5.29	7.020		
900.00	899.84	899.84	899.84	2.97	3.01	82.49	-21.86	-30.63	36.07	30.10	5.98	6.035		
930.56	930.31	930.31	930.31	3.07	3.12	86.12	-21.86	-30.63	35.84	29.65	6.19	5.790		
960.81	960.47	960.47	960.47	3.18	3.23	90.00	-21.86	-30.63	35.76	29.36	6.40	5.586	CC	
1,000.00	999.53	999.53	999.53	3.31	3.37	95.02	-21.86	-30.63	35.90	29.22	6.68	5.377	ES	
1,100.00	1,099.20	1,099.20	1,099.20	3.66	3.73	107.32	-21.86	-30.63	37.47	30.09	7.38	5.075		
1,200.00	1,198.88	1,198.88	1,198.88	4.02	4.08	118.19	-21.86	-30.63	40.60	32.51	8.09	5.017	SF	
1,300.00	1,298.56	1,298.56	1,298.56	4.38	4.44	127.24	-21.86	-30.63	44.97	36.17	8.80	5.108		
1,400.00	1,398.23	1,398.23	1,398.23	4.75	4.80	134.54	-21.86	-30.63	50.25	40.74	9.51	5.282		
1,500.00	1,497.91	1,497.91	1,497.91	5.12	5.15	140.39	-21.86	-30.63	56.19	45.97	10.22	5.497		
1,600.00	1,597.58	1,597.58	1,597.58	5.49	5.51	145.08	-21.86	-30.63	62.60	51.67	10.93	5.726		
1,700.00	1,697.26	1,697.26	1,697.26	5.86	5.87	148.88	-21.86	-30.63	69.36	57.71	11.64	5.956		
1,800.00	1,796.94	1,796.94	1,796.94	6.23	6.23	152.00	-21.86	-30.63	76.36	64.00	12.36	6.180		
1,900.00	1,896.61	1,896.61	1,896.61	6.61	6.58	154.58	-21.86	-30.63	83.54	70.48	13.07	6.393		
2,000.00	1,996.29	1,996.29	1,996.29	6.99	6.94	156.76	-21.86	-30.63	90.88	77.10	13.78	6.595		
2,100.00	2,095.97	2,095.97	2,095.97	7.37	7.30	158.61	-21.86	-30.63	98.32	83.82	14.49	6.784		
2,200.00	2,195.64	2,195.64	2,195.64	7.75	7.66	160.19	-21.86	-30.63	105.85	90.64	15.21	6.960		
2,300.00	2,295.32	2,292.35	2,292.33	8.12	8.00	161.98	-20.37	-30.61	114.68	98.79	15.90	7.214		
2,400.00	2,394.99	2,388.22	2,388.09	8.51	8.35	164.33	-15.68	-30.55	126.38	109.82	16.57	7.628		
2,500.00	2,494.67	2,483.19	2,482.73	8.89	8.69	166.96	-7.87	-30.44	141.09	123.87	17.22	8.194		
2,600.00	2,594.35	2,577.05	2,575.97	9.27	9.02	169.64	2.92	-30.30	158.90	141.06	17.85	8.904		
2,700.00	2,694.02	2,669.64	2,667.54	9.65	9.36	172.20	16.55	-30.11	179.87	161.42	18.45	9.749		
2,800.00	2,793.70	2,760.78	2,757.20	10.03	9.69	174.55	32.85	-29.89	204.01	184.98	19.03	10.720		
2,900.00	2,893.38	2,850.33	2,844.76	10.41	10.03	176.67	51.63	-29.64	231.27	211.69	19.59	11.808		
3,000.00	2,993.05	2,938.16	2,930.02	10.80	10.38	178.55	72.71	-29.36	261.59	241.47	20.12	13.004		
3,100.00	3,092.73	3,024.16	3,012.84	11.18	10.73	-179.81	95.87	-29.05	294.88	274.26	20.62	14.299		
3,200.00	3,192.41	3,108.24	3,093.10	11.56	11.09	-178.37	120.90	-28.71	331.04	309.94	21.11	15.685		
3,300.00	3,292.08	3,190.31	3,170.71	11.94	11.46	-177.11	147.60	-28.35	369.98	348.41	21.57	17.156		
3,400.00	3,391.76	3,270.33	3,245.60	12.33	11.84	-176.02	175.76	-27.97	411.58	389.57	22.00	18.705		
3,500.00	3,491.43	3,348.25	3,317.75	12.71	12.23	-175.06	205.17	-27.58	455.73	433.31	22.42	20.327		
3,600.00	3,591.11	3,424.03	3,387.13	13.09	12.63	-174.21	235.66	-27.17	502.33	479.51	22.82	22.015		
3,700.00	3,690.79	3,497.67	3,453.74	13.48	13.03	-173.47	267.03	-26.75	551.27	528.08	23.20	23.765		
3,800.00	3,790.46	3,582.08	3,529.53	13.86	13.52	-172.72	304.19	-26.25	601.64	577.83	23.81	25.270		
3,900.00	3,890.14	3,668.20	3,606.85	14.25	14.04	-172.07	342.12	-25.74	652.09	627.63	24.46	26.659		
4,000.00	3,989.82	3,754.32	3,684.16	14.63	14.57	-171.51	380.05	-25.23	702.60	677.48	25.12	27.971		
4,100.00	4,089.49	3,840.44	3,761.48	15.01	15.11	-171.03	417.99	-24.72	753.14	727.36	25.78	29.213		
4,200.00	4,189.17	3,926.56	3,838.80	15.40	15.67	-170.61	455.92	-24.21	803.73	777.28	26.45	30.388		
4,300.00	4,288.84	4,012.68	3,916.11	15.78	16.24	-170.23	493.85	-23.70	854.34	827.22	27.12	31.501		
4,400.00	4,388.52	4,098.80	3,993.43	16.17	16.82	-169.90	531.78	-23.19	904.98	877.18	27.80	32.557		
4,500.00	4,488.20	4,184.92	4,070.74	16.55	17.40	-169.61	569.71	-22.68	955.63	927.16	28.48	33.560		
4,600.00	4,587.87	4,271.04	4,148.06	16.94	18.00	-169.34	607.64	-22.17	1,006.30	977.15	29.16	34.512		
4,700.00	4,687.55	4,357.17	4,225.38	17.32	18.60	-169.10	645.57	-21.66	1,056.99	1,027.15	29.84	35.417		
4,800.00	4,787.23	4,443.29	4,302.69	17.71	19.21	-168.88	683.50	-21.15	1,107.69	1,077.16	30.53	36.280		
4,900.00	4,886.90	4,529.41	4,380.01	18.09	19.83	-168.68	721.43	-20.64	1,158.40	1,127.18	31.22	37.101		

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

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

**Offset Design:** SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSAL #1

**Offset Site Error:** 0.00 usft  
**Offset Well Error:** 0.00 usft

Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,986.58	4,615.53	4,457.33	18.48	20.45	-168.50	759.36	-20.13	1,209.12	1,177.21	31.92	37.884	
5,100.00	5,086.26	4,701.65	4,534.64	18.86	21.07	-168.33	797.29	-19.62	1,259.85	1,227.24	32.61	38.632	
5,200.00	5,185.93	4,787.77	4,611.96	19.25	21.70	-168.18	835.23	-19.11	1,310.59	1,277.28	33.31	39.345	
5,300.00	5,285.61	4,873.89	4,689.27	19.63	22.34	-168.04	873.16	-18.60	1,361.33	1,327.32	34.01	40.027	
5,400.00	5,385.28	4,960.01	4,766.59	20.02	22.98	-167.90	911.09	-18.09	1,412.08	1,377.37	34.71	40.680	
5,500.00	5,484.96	5,046.13	4,843.91	20.40	23.62	-167.78	949.02	-17.58	1,462.84	1,427.42	35.42	41.305	
5,600.00	5,584.64	5,132.25	4,921.22	20.79	24.26	-167.66	986.95	-17.07	1,513.60	1,477.48	36.12	41.903	
5,700.00	5,684.31	5,218.37	4,998.54	21.17	24.91	-167.55	1,024.88	-16.56	1,564.36	1,527.53	36.83	42.477	
5,800.00	5,783.99	5,304.50	5,075.85	21.56	25.56	-167.45	1,062.81	-16.05	1,615.13	1,577.59	37.54	43.027	
5,900.00	5,883.67	5,390.62	5,153.17	21.94	26.22	-167.36	1,100.74	-15.54	1,665.90	1,627.65	38.25	43.556	
6,000.00	5,983.34	5,476.74	5,230.49	22.33	26.87	-167.27	1,138.67	-15.03	1,716.67	1,677.71	38.96	44.063	
6,100.00	6,083.02	5,562.86	5,307.80	22.71	27.53	-167.18	1,176.60	-14.52	1,767.45	1,727.78	39.67	44.551	
6,200.00	6,182.69	5,648.98	5,385.12	23.10	28.19	-167.10	1,214.54	-14.01	1,818.23	1,777.84	40.39	45.020	
6,300.00	6,282.37	5,735.10	5,462.44	23.48	28.85	-167.03	1,252.47	-13.50	1,869.01	1,827.91	41.10	45.472	
6,400.00	6,382.05	5,821.22	5,539.75	23.87	29.51	-166.96	1,290.40	-12.99	1,919.80	1,877.98	41.82	45.906	
6,500.00	6,481.72	5,907.34	5,617.07	24.25	30.18	-166.89	1,328.33	-12.48	1,970.58	1,928.04	42.54	46.325	
6,600.00	6,581.40	5,993.46	5,694.38	24.64	30.85	-166.83	1,366.26	-11.98	2,021.37	1,978.11	43.26	46.729	
6,688.27	6,669.38	6,069.48	5,762.63	24.98	31.44	-166.77	1,399.74	-11.53	2,066.20	2,022.31	43.89	47.073	
6,700.00	6,681.08	6,079.58	5,771.70	25.02	31.51	177.85	1,404.19	-11.47	2,072.15	2,028.18	43.98	47.118	
6,750.00	6,730.87	6,122.58	5,810.30	25.21	31.85	125.41	1,423.13	-11.21	2,097.32	2,052.99	44.33	47.313	
6,800.00	6,780.30	6,165.21	5,848.57	25.38	32.18	104.68	1,441.90	-10.96	2,122.04	2,077.37	44.67	47.509	
6,850.00	6,828.99	6,207.16	5,886.24	25.54	32.51	94.80	1,460.38	-10.71	2,146.18	2,101.19	44.99	47.705	
6,900.00	6,876.56	6,248.11	5,923.00	25.69	32.83	88.71	1,478.42	-10.47	2,169.62	2,124.32	45.30	47.897	
6,950.00	6,922.66	6,287.75	5,958.58	25.83	33.14	84.39	1,495.87	-10.23	2,192.27	2,146.68	45.59	48.083	
7,000.00	6,966.93	6,325.77	5,992.72	25.96	33.43	81.06	1,512.62	-10.01	2,214.08	2,168.20	45.88	48.258	
7,050.00	7,009.04	6,361.89	6,025.14	26.08	33.71	78.38	1,528.53	-9.79	2,234.98	2,188.82	46.16	48.420	
7,100.00	7,048.66	6,395.83	6,055.61	26.19	33.98	76.14	1,543.47	-9.59	2,254.95	2,208.51	46.43	48.562	
7,150.00	7,085.51	6,427.33	6,083.89	26.30	34.23	74.23	1,557.35	-9.41	2,273.96	2,227.24	46.71	48.678	
7,200.00	7,119.28	6,456.15	6,109.77	26.39	34.45	72.58	1,570.04	-9.24	2,292.00	2,244.99	47.00	48.761	
7,250.00	7,149.73	6,482.07	6,133.04	26.49	34.65	71.11	1,581.46	-9.08	2,309.06	2,261.75	47.31	48.806	
7,300.00	7,176.63	6,504.91	6,153.54	26.60	34.83	69.80	1,591.52	-8.95	2,325.13	2,277.49	47.64	48.807	
7,350.00	7,199.77	6,524.47	6,171.10	26.76	34.99	68.61	1,600.13	-8.83	2,340.21	2,292.21	48.00	48.757	
7,400.00	7,218.98	6,540.62	6,185.60	26.99	35.11	67.51	1,607.25	-8.74	2,354.28	2,305.89	48.39	48.656	
7,450.00	7,234.10	6,553.23	6,196.92	27.33	35.21	66.49	1,612.80	-8.66	2,367.33	2,318.52	48.81	48.502	
7,500.00	7,245.03	6,562.20	6,204.97	27.75	35.28	65.54	1,616.75	-8.61	2,379.32	2,330.06	49.26	48.298	
7,550.00	7,251.68	6,567.47	6,209.70	28.25	35.32	64.64	1,619.07	-8.58	2,390.24	2,340.49	49.75	48.048	
7,600.00	7,254.00	6,568.99	6,211.07	28.79	35.34	63.80	1,619.74	-8.57	2,400.03	2,349.78	50.25	47.758	
7,601.67	7,254.00	6,568.98	6,211.06	28.81	35.34	63.77	1,619.74	-8.57	2,400.34	2,350.07	50.27	47.749	
7,700.00	7,254.00	6,568.04	6,210.21	30.03	35.33	63.75	1,619.32	-8.57	2,420.31	2,368.94	51.37	47.113	
7,800.00	7,254.00	6,567.08	6,209.36	31.47	35.32	63.72	1,618.90	-8.58	2,444.51	2,391.87	52.64	46.438	
7,900.00	7,254.00	6,566.12	6,208.50	33.06	35.31	63.70	1,618.48	-8.59	2,472.52	2,418.50	54.02	45.772	
8,000.00	7,254.00	6,565.16	6,207.64	34.80	35.31	63.68	1,618.06	-8.59	2,504.21	2,448.74	55.48	45.141	
8,100.00	7,254.00	6,564.21	6,206.78	36.66	35.30	63.65	1,617.64	-8.60	2,539.45	2,482.47	56.98	44.567	
8,200.00	7,254.00	6,563.25	6,205.92	38.62	35.29	63.63	1,617.21	-8.60	2,578.09	2,519.57	58.51	44.062	
8,300.00	7,254.00	6,562.29	6,205.06	40.66	35.28	63.61	1,616.79	-8.61	2,619.97	2,559.93	60.04	43.634	
8,400.00	7,254.00	8,733.70	7,258.00	42.78	51.54	90.09	2,122.89	-1,251.66	2,630.06	2,544.52	85.54	30.746	
8,500.00	7,254.00	8,833.70	7,258.00	44.97	52.97	90.09	2,122.05	-1,351.65	2,630.05	2,540.27	89.78	29.295	
8,600.00	7,254.00	8,933.70	7,258.00	47.21	54.53	90.09	2,121.21	-1,451.65	2,630.04	2,535.91	94.14	27.938	
8,700.00	7,254.00	9,033.70	7,258.00	49.50	56.20	90.09	2,120.37	-1,551.65	2,630.03	2,531.43	98.60	26.673	
8,800.00	7,254.00	9,133.70	7,258.00	51.83	57.98	90.09	2,119.53	-1,651.64	2,630.03	2,526.86	103.16	25.494	
8,900.00	7,254.00	9,233.70	7,258.00	54.20	59.85	90.09	2,118.69	-1,751.64	2,630.02	2,522.21	107.81	24.396	
9,000.00	7,254.00	9,333.70	7,258.00	56.60	61.80	90.09	2,117.86	-1,851.64	2,630.01	2,517.49	112.52	23.373	

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



## Anticollision Report



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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSAL #1														Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD														Offset Well Error:	0.00 usft	
Reference														Rule Assigned:		Warning
Measured Reference		Measured Offset		Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor				
Depth (usft)	Vertical Depth (usft)	Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
9,100.00	7,254.00	9,433.70	7,258.00	59.03	63.83	90.09	2,117.02	-1,951.63	2,630.00	2,512.70	117.30	22.421				
9,200.00	7,254.00	9,533.70	7,258.00	61.48	65.92	90.09	2,116.18	-2,051.63	2,630.00	2,507.86	122.13	21.534				
9,300.00	7,254.00	9,633.70	7,258.00	63.95	68.06	90.09	2,115.34	-2,151.62	2,629.99	2,502.97	127.01	20.706				
9,400.00	7,254.00	9,733.70	7,258.00	66.44	70.26	90.09	2,114.50	-2,251.62	2,629.98	2,498.04	131.94	19.933				
9,500.00	7,254.00	9,833.70	7,258.00	68.96	72.49	90.09	2,113.67	-2,351.62	2,629.97	2,493.06	136.91	19.210				
9,600.00	7,254.00	9,933.70	7,258.00	71.48	74.77	90.09	2,112.83	-2,451.61	2,629.96	2,488.06	141.91	18.533				
9,700.00	7,254.00	10,033.70	7,258.00	74.02	77.08	90.09	2,111.99	-2,551.61	2,629.96	2,483.02	146.94	17.898				
9,800.00	7,254.00	10,133.70	7,258.00	76.57	79.42	90.09	2,111.15	-2,651.61	2,629.95	2,477.95	152.00	17.302				
9,900.00	7,254.00	10,233.70	7,258.00	79.14	81.79	90.09	2,110.31	-2,751.60	2,629.94	2,472.85	157.09	16.742				
10,000.00	7,254.00	10,333.70	7,258.00	81.71	84.18	90.09	2,109.48	-2,851.60	2,629.93	2,467.74	162.20	16.215				
10,100.00	7,254.00	10,433.70	7,258.00	84.29	86.59	90.09	2,108.64	-2,951.60	2,629.93	2,462.60	167.33	15.717				
10,200.00	7,254.00	10,533.70	7,258.00	86.88	89.03	90.09	2,107.80	-3,051.59	2,629.92	2,457.44	172.48	15.248				
10,300.00	7,254.00	10,633.70	7,258.00	89.48	91.48	90.09	2,106.96	-3,151.59	2,629.91	2,452.27	177.64	14.804				
10,400.00	7,254.00	10,733.70	7,258.00	92.09	93.95	90.09	2,106.12	-3,251.59	2,629.90	2,447.07	182.83	14.385				
10,500.00	7,254.00	10,833.70	7,258.00	94.70	96.43	90.09	2,105.29	-3,351.58	2,629.89	2,441.87	188.03	13.987				
10,600.00	7,254.00	10,933.70	7,258.00	97.32	98.93	90.09	2,104.45	-3,451.58	2,629.89	2,436.65	193.24	13.610				
10,700.00	7,254.00	11,033.70	7,258.00	99.95	101.44	90.09	2,103.61	-3,551.58	2,629.88	2,431.42	198.46	13.251				
10,800.00	7,254.00	11,133.70	7,258.00	102.58	103.96	90.09	2,102.77	-3,651.57	2,629.87	2,426.17	203.70	12.911				
10,900.00	7,254.00	11,233.70	7,258.00	105.21	106.50	90.09	2,101.93	-3,751.57	2,629.86	2,420.92	208.94	12.587				
11,000.00	7,254.00	11,333.70	7,258.00	107.85	109.04	90.09	2,101.10	-3,851.57	2,629.85	2,415.66	214.20	12.278				
11,100.00	7,254.00	11,433.70	7,258.00	110.49	111.59	90.09	2,100.26	-3,951.56	2,629.85	2,410.38	219.46	11.983				
11,200.00	7,254.00	11,533.70	7,258.00	113.14	114.15	90.09	2,099.42	-4,051.56	2,629.84	2,405.10	224.74	11.702				
11,300.00	7,254.00	11,633.70	7,258.00	115.79	116.72	90.09	2,098.58	-4,151.55	2,629.83	2,399.81	230.02	11.433				
11,400.00	7,254.00	11,733.70	7,258.00	118.44	119.30	90.09	2,097.74	-4,251.55	2,629.82	2,394.52	235.31	11.176				
11,500.00	7,254.00	11,833.70	7,258.00	121.09	121.88	90.09	2,096.91	-4,351.55	2,629.82	2,389.21	240.60	10.930				
11,600.00	7,254.00	11,933.70	7,258.00	123.75	124.47	90.09	2,096.07	-4,451.54	2,629.81	2,383.90	245.91	10.694				
11,700.00	7,254.00	12,033.70	7,258.00	126.41	127.06	90.09	2,095.23	-4,551.54	2,629.80	2,378.59	251.21	10.468				
11,800.00	7,254.00	12,133.70	7,258.00	129.08	129.66	90.09	2,094.39	-4,651.54	2,629.79	2,373.26	256.53	10.251				
11,900.00	7,254.00	12,233.70	7,258.00	131.75	132.26	90.09	2,093.55	-4,751.53	2,629.78	2,367.94	261.85	10.043				
12,000.00	7,254.00	12,333.70	7,258.00	134.41	134.87	90.09	2,092.72	-4,851.53	2,629.78	2,362.60	267.17	9.843				
12,100.00	7,254.00	12,433.70	7,258.00	137.08	137.49	90.09	2,091.88	-4,951.53	2,629.77	2,357.27	272.50	9.650				
12,200.00	7,254.00	12,533.70	7,258.00	139.76	140.11	90.09	2,091.04	-5,051.52	2,629.76	2,351.93	277.83	9.465				
12,300.00	7,254.00	12,633.70	7,258.00	142.43	142.73	90.09	2,090.20	-5,151.52	2,629.75	2,346.58	283.17	9.287				
12,400.00	7,254.00	12,733.70	7,258.00	145.11	145.36	90.09	2,089.36	-5,251.52	2,629.74	2,341.23	288.51	9.115				
12,500.00	7,254.00	12,833.70	7,258.00	147.79	147.99	90.09	2,088.53	-5,351.51	2,629.74	2,335.88	293.86	8.949				
12,600.00	7,254.00	12,933.70	7,258.00	150.47	150.62	90.09	2,087.69	-5,451.51	2,629.73	2,330.52	299.21	8.789				
12,700.00	7,254.00	13,033.70	7,258.00	153.15	153.26	90.09	2,086.85	-5,551.51	2,629.72	2,325.16	304.56	8.634				
12,800.00	7,254.00	13,133.70	7,258.00	155.83	155.90	90.09	2,086.01	-5,651.50	2,629.71	2,319.80	309.92	8.485				
12,900.00	7,254.00	13,233.70	7,258.00	158.51	158.54	90.09	2,085.17	-5,751.50	2,629.71	2,314.43	315.27	8.341				
13,000.00	7,254.00	13,333.70	7,258.00	161.20	161.18	90.09	2,084.34	-5,851.49	2,629.70	2,309.06	320.64	8.202				
13,100.00	7,254.00	13,433.70	7,258.00	163.88	163.83	90.09	2,083.50	-5,951.49	2,629.69	2,303.69	326.00	8.067				
13,200.00	7,254.00	13,533.70	7,258.00	166.57	166.48	90.09	2,082.66	-6,051.49	2,629.68	2,298.32	331.37	7.936				
13,300.00	7,254.00	13,633.70	7,258.00	169.26	169.13	90.09	2,081.82	-6,151.48	2,629.67	2,292.94	336.74	7.809				
13,400.00	7,254.00	13,733.70	7,258.00	171.95	171.79	90.09	2,080.98	-6,251.48	2,629.67	2,287.56	342.11	7.687				
13,500.00	7,254.00	13,833.70	7,258.00	174.64	174.45	90.09	2,080.14	-6,351.48	2,629.66	2,282.18	347.48	7.568				
13,600.00	7,254.00	13,933.70	7,258.00	177.33	177.10	90.09	2,079.31	-6,451.47	2,629.65	2,276.79	352.86	7.452				
13,700.00	7,254.00	14,033.70	7,258.00	180.02	179.77	90.09	2,078.47	-6,551.47	2,629.64	2,271.41	358.23	7.341				
13,800.00	7,254.00	14,133.70	7,258.00	182.72	182.43	90.09	2,077.63	-6,651.47	2,629.64	2,266.02	363.61	7.232				
13,900.00	7,254.00	14,233.70	7,258.00	185.41	185.09	90.09	2,076.79	-6,751.46	2,629.63	2,260.63	369.00	7.126				
14,000.00	7,254.00	14,333.70	7,258.00	188.11	187.76	90.09	2,075.95	-6,851.46	2,629.62	2,255.24	374.38	7.024				
14,100.00	7,254.00	14,433.70	7,258.00	190.80	190.43	90.09	2,075.12	-6,951.46	2,629.61	2,249.85	379.76	6.924				
14,200.00	7,254.00	14,533.70	7,258.00	193.50	193.10	90.09	2,074.28	-7,051.45	2,629.60	2,244.45	385.15	6.827				

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-5H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,300.00	7,254.00	14,633.70	7,258.00	196.19	195.77	90.09	2,073.44	-7,151.45	2,629.60	2,239.06	390.54	6.733		
14,400.00	7,254.00	14,733.70	7,258.00	198.89	198.44	90.09	2,072.60	-7,251.45	2,629.59	2,233.66	395.93	6.642		
14,500.00	7,254.00	14,833.70	7,258.00	201.59	201.11	90.09	2,071.76	-7,351.44	2,629.58	2,228.26	401.32	6.552		
14,600.00	7,254.00	14,933.70	7,258.00	204.29	203.79	90.09	2,070.93	-7,451.44	2,629.57	2,222.86	406.71	6.465		
14,700.00	7,254.00	15,033.70	7,258.00	206.99	206.46	90.09	2,070.09	-7,551.44	2,629.56	2,217.46	412.11	6.381		
14,800.00	7,254.00	15,133.70	7,258.00	209.69	209.14	90.09	2,069.25	-7,651.43	2,629.56	2,212.05	417.50	6.298		
14,900.00	7,254.00	15,233.70	7,258.00	212.39	211.82	90.09	2,068.41	-7,751.43	2,629.55	2,206.65	422.90	6.218		
15,000.00	7,254.00	15,333.70	7,258.00	215.09	214.50	90.09	2,067.57	-7,851.42	2,629.54	2,201.24	428.30	6.140		
15,100.00	7,254.00	15,433.70	7,258.00	217.79	217.18	90.09	2,066.74	-7,951.42	2,629.53	2,195.84	433.70	6.063		
15,200.00	7,254.00	15,533.70	7,258.00	220.50	219.86	90.09	2,065.90	-8,051.42	2,629.53	2,190.43	439.10	5.988		
15,300.00	7,254.00	15,633.70	7,258.00	223.20	222.54	90.09	2,065.06	-8,151.41	2,629.52	2,185.02	444.50	5.916		
15,400.00	7,254.00	15,733.70	7,258.00	225.90	225.23	90.09	2,064.22	-8,251.41	2,629.51	2,179.61	449.90	5.845		
15,500.00	7,254.00	15,833.64	7,258.00	228.61	227.91	90.09	2,063.39	-8,351.34	2,629.50	2,174.20	455.30	5.775		
15,504.17	7,254.00	15,837.79	7,258.00	228.72	228.02	90.09	2,063.35	-8,355.49	2,629.50	2,173.98	455.53	5.772		
15,600.00	7,254.00	15,837.79	7,258.00	231.31	228.02	90.09	2,063.35	-8,355.49	2,631.24	2,172.77	458.48	5.739		
15,602.20	7,254.00	15,837.79	7,258.00	231.37	228.02	90.09	2,063.35	-8,355.49	2,631.31	2,172.77	458.54	5.738		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-6H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance			Rule Assigned:	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-142.61	-40.08	-30.63	50.44						
100.00	100.00	100.00	100.00	0.14	0.14	-142.61	-40.08	-30.63	50.44	50.15	0.29	175.889			
200.00	200.00	200.00	200.00	0.50	0.50	-142.61	-40.08	-30.63	50.44	49.44	1.00	50.254			
300.00	300.00	300.00	300.00	0.86	0.86	-142.61	-40.08	-30.63	50.44	48.72	1.72	29.315			
400.00	400.00	400.00	400.00	1.22	1.22	-142.61	-40.08	-30.63	50.44	48.00	2.44	20.693			
500.00	500.00	500.00	500.00	1.58	1.58	-142.61	-40.08	-30.63	50.44	47.29	3.15	15.990			
600.00	600.00	600.00	600.00	1.94	1.94	-142.61	-40.08	-30.63	50.44	46.57	3.87	13.029			
700.00	700.00	700.00	700.00	2.29	2.29	-142.61	-40.08	-30.63	50.44	45.85	4.59	10.993			
800.00	799.98	799.98	799.98	2.64	2.65	56.44	-40.08	-30.63	49.46	44.17	5.29	9.352			
900.00	899.84	899.84	899.84	2.97	3.01	61.84	-40.08	-30.63	46.76	40.79	5.98	7.822			
930.56	930.31	930.31	930.31	3.07	3.12	64.39	-40.08	-30.63	45.72	39.53	6.19	7.385			
1,000.00	999.53	999.53	999.53	3.31	3.37	71.00	-40.08	-30.63	43.60	36.92	6.68	6.529			
1,100.00	1,099.20	1,099.20	1,099.20	3.66	3.73	81.47	-40.08	-30.63	41.67	34.28	7.39	5.642			
1,177.09	1,176.04	1,176.04	1,176.04	3.94	4.00	90.00	-40.08	-30.63	41.21	33.27	7.94	5.192 CC			
1,200.00	1,198.88	1,198.88	1,198.88	4.02	4.08	92.55	-40.08	-30.63	41.25	33.15	8.10	5.092 ES			
1,300.00	1,298.56	1,298.56	1,298.56	4.38	4.44	103.44	-40.08	-30.63	42.37	33.56	8.82	4.806			
1,400.00	1,398.23	1,398.23	1,398.23	4.75	4.80	113.44	-40.08	-30.63	44.93	35.40	9.53	4.713 SF			
1,500.00	1,497.91	1,497.91	1,497.91	5.12	5.15	122.13	-40.08	-30.63	48.70	38.45	10.25	4.753			
1,600.00	1,597.58	1,597.58	1,597.58	5.49	5.51	129.44	-40.08	-30.63	53.42	42.46	10.96	4.875			
1,700.00	1,697.26	1,697.26	1,697.26	5.86	5.87	135.48	-40.08	-30.63	58.87	47.20	11.67	5.044			
1,800.00	1,796.94	1,796.94	1,796.94	6.23	6.23	140.46	-40.08	-30.63	64.85	52.47	12.38	5.238			
1,900.00	1,896.61	1,896.61	1,896.61	6.61	6.58	144.58	-40.08	-30.63	71.24	58.15	13.09	5.442			
2,000.00	1,996.29	1,996.29	1,996.29	6.99	6.94	148.00	-40.08	-30.63	77.94	64.14	13.80	5.647			
2,100.00	2,095.97	2,095.97	2,095.97	7.37	7.30	150.87	-40.08	-30.63	84.87	70.36	14.51	5.847			
2,200.00	2,195.64	2,195.64	2,195.64	7.75	7.66	153.31	-40.08	-30.63	91.98	76.75	15.23	6.041			
2,300.00	2,295.32	2,295.32	2,295.32	8.12	8.01	155.40	-40.08	-30.63	99.23	83.30	15.94	6.226			
2,400.00	2,394.99	2,392.36	2,392.34	8.51	8.36	157.67	-38.59	-30.61	107.76	91.13	16.63	6.480			
2,500.00	2,494.67	2,488.58	2,488.44	8.89	8.71	160.57	-33.87	-30.56	119.09	101.79	17.30	6.884			
2,600.00	2,594.35	2,583.87	2,583.41	9.27	9.05	163.76	-26.02	-30.46	133.41	115.46	17.95	7.433			
2,700.00	2,694.02	2,678.06	2,676.96	9.65	9.38	166.94	-15.17	-30.33	150.87	132.30	18.57	8.123			
2,800.00	2,793.70	2,770.96	2,768.84	10.03	9.72	169.94	-1.46	-30.17	171.54	152.36	19.17	8.947			
2,900.00	2,893.38	2,862.39	2,858.79	10.41	10.06	172.66	14.94	-29.97	195.43	175.68	19.75	9.896			
3,000.00	2,993.05	2,952.23	2,946.61	10.80	10.40	175.08	33.84	-29.75	222.50	202.20	20.30	10.962			
3,100.00	3,092.73	3,040.33	3,032.12	11.18	10.74	177.20	55.04	-29.49	252.68	231.86	20.82	12.135			
3,200.00	3,192.41	3,126.58	3,115.16	11.56	11.09	179.05	78.34	-29.21	285.88	264.56	21.32	13.408			
3,300.00	3,292.08	3,210.90	3,195.63	11.94	11.45	-179.36	103.51	-28.91	321.99	300.19	21.80	14.772			
3,400.00	3,391.76	3,293.19	3,273.42	12.33	11.82	-177.98	130.36	-28.59	360.90	338.65	22.25	16.220			
3,500.00	3,491.43	3,373.42	3,348.48	12.71	12.20	-176.77	158.67	-28.25	402.50	379.82	22.68	17.747			
3,600.00	3,591.11	3,455.43	3,424.42	13.09	12.60	-175.69	189.63	-27.88	446.55	423.38	23.17	19.271			
3,700.00	3,690.79	3,544.59	3,506.78	13.48	13.06	-174.69	223.77	-27.47	491.25	467.42	23.83	20.617			
3,800.00	3,790.46	3,633.74	3,589.13	13.86	13.54	-173.86	257.90	-27.07	536.06	511.57	24.49	21.888			
3,900.00	3,890.14	3,722.89	3,671.49	14.25	14.02	-173.16	292.04	-26.66	580.94	555.78	25.16	23.091			
4,000.00	3,989.82	3,812.04	3,753.85	14.63	14.52	-172.56	326.18	-26.25	625.88	600.05	25.83	24.230			
4,100.00	4,089.49	3,901.19	3,836.20	15.01	15.03	-172.03	360.31	-25.84	670.87	644.36	26.51	25.309			
4,200.00	4,189.17	3,990.34	3,918.56	15.40	15.56	-171.58	394.45	-25.43	715.90	688.71	27.19	26.331			
4,300.00	4,288.84	4,079.50	4,000.92	15.78	16.09	-171.18	428.59	-25.02	760.96	733.09	27.87	27.302			
4,400.00	4,388.52	4,168.65	4,083.27	16.17	16.63	-170.82	462.72	-24.62	806.05	777.49	28.56	28.224			
4,500.00	4,488.20	4,257.80	4,165.63	16.55	17.18	-170.50	496.86	-24.21	851.16	821.91	29.25	29.101			
4,600.00	4,587.87	4,346.95	4,247.98	16.94	17.73	-170.21	531.00	-23.80	896.29	866.35	29.94	29.935			
4,700.00	4,687.55	4,436.10	4,330.34	17.32	18.29	-169.95	565.13	-23.39	941.43	910.80	30.64	30.730			
4,800.00	4,787.23	4,525.26	4,412.70	17.71	18.86	-169.72	599.27	-22.98	986.59	955.26	31.33	31.488			
4,900.00	4,886.90	4,614.41	4,495.05	18.09	19.43	-169.50	633.41	-22.57	1,031.76	999.73	32.03	32.212			

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

Summary table with columns: Company, Project, Reference Site, Site Error, Reference Well, Well Error, Reference Wellbore, Reference Design, Local Co-ordinate Reference, TVD Reference, MD Reference, North Reference, Survey Calculation Method, Output errors are at, Database, Offset TVD Reference.

Main data table with columns: 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. Includes header 'Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-6H - ORIGINAL WELLBORE - PROPOSAL #1'.

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-6H - ORIGINAL WELLBORE - PROPOSAL #1															Offset Site Error: 0.00 usft
Survey Program:			0-OWSG (Rev2) MWD		Semi Major Axis			Offset Wellbore Centre		Distance				Rule Assigned:	Offset Well Error: 0.00 usft
Reference		Offset		Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)				
9,100.00	7,254.00	9,074.94	7,056.00	59.03	60.81	84.84	1,678.14	-1,948.56	2,200.04	2,083.74	116.30	18.917			
9,200.00	7,254.00	9,174.94	7,056.00	61.48	63.04	84.84	1,677.27	-2,048.56	2,200.00	2,078.87	121.14	18.161			
9,300.00	7,254.00	9,274.94	7,056.00	63.95	65.31	84.84	1,676.41	-2,148.55	2,199.97	2,073.94	126.03	17.456			
9,400.00	7,254.00	9,374.94	7,056.00	66.44	67.63	84.84	1,675.54	-2,248.55	2,199.93	2,068.98	130.96	16.799			
9,500.00	7,254.00	9,474.94	7,056.00	68.96	69.97	84.84	1,674.68	-2,348.54	2,199.90	2,063.98	135.92	16.185			
9,600.00	7,254.00	9,574.94	7,056.00	71.48	72.35	84.84	1,673.81	-2,448.54	2,199.86	2,058.94	140.92	15.610			
9,700.00	7,254.00	9,674.94	7,056.00	74.02	74.75	84.84	1,672.95	-2,548.54	2,199.83	2,053.87	145.96	15.072			
9,800.00	7,254.00	9,774.94	7,056.00	76.57	77.17	84.84	1,672.08	-2,648.53	2,199.79	2,048.78	151.01	14.567			
9,900.00	7,254.00	9,874.94	7,056.00	79.14	79.62	84.84	1,671.21	-2,748.53	2,199.76	2,043.66	156.10	14.092			
10,000.00	7,254.00	9,974.94	7,056.00	81.71	82.08	84.84	1,670.35	-2,848.53	2,199.72	2,038.52	161.20	13.646			
10,100.00	7,254.00	10,074.94	7,056.00	84.29	84.56	84.84	1,669.48	-2,948.52	2,199.69	2,033.36	166.33	13.225			
10,200.00	7,254.00	10,174.94	7,056.00	86.88	87.06	84.84	1,668.62	-3,048.52	2,199.65	2,028.18	171.47	12.828			
10,300.00	7,254.00	10,274.94	7,056.00	89.48	89.57	84.84	1,667.75	-3,148.51	2,199.62	2,022.98	176.63	12.453			
10,400.00	7,254.00	10,374.94	7,056.00	92.09	92.09	84.84	1,666.89	-3,248.51	2,199.58	2,017.77	181.81	12.098			
10,500.00	7,254.00	10,474.94	7,056.00	94.70	94.63	84.84	1,666.02	-3,348.51	2,199.55	2,012.55	187.00	11.762			
10,600.00	7,254.00	10,574.94	7,056.00	97.32	97.18	84.84	1,665.16	-3,448.50	2,199.51	2,007.31	192.20	11.444			
10,700.00	7,254.00	10,674.94	7,056.00	99.95	99.73	84.84	1,664.29	-3,548.50	2,199.47	2,002.06	197.42	11.141			
10,800.00	7,254.00	10,774.94	7,056.00	102.58	102.29	84.84	1,663.42	-3,648.50	2,199.44	1,996.80	202.64	10.854			
10,900.00	7,254.00	10,874.94	7,056.00	105.21	104.87	84.83	1,662.56	-3,748.49	2,199.40	1,991.53	207.88	10.580			
11,000.00	7,254.00	10,974.94	7,056.00	107.85	107.45	84.83	1,661.69	-3,848.49	2,199.37	1,986.24	213.12	10.320			
11,100.00	7,254.00	11,074.94	7,056.00	110.49	110.03	84.83	1,660.83	-3,948.48	2,199.33	1,980.96	218.38	10.071			
11,200.00	7,254.00	11,174.94	7,056.00	113.14	112.63	84.83	1,659.96	-4,048.48	2,199.30	1,975.66	223.64	9.834			
11,300.00	7,254.00	11,274.94	7,056.00	115.79	115.23	84.83	1,659.10	-4,148.48	2,199.26	1,970.35	228.91	9.608			
11,400.00	7,254.00	11,374.94	7,056.00	118.44	117.83	84.83	1,658.23	-4,248.47	2,199.23	1,965.04	234.19	9.391			
11,500.00	7,254.00	11,474.94	7,056.00	121.09	120.45	84.83	1,657.36	-4,348.47	2,199.19	1,959.72	239.47	9.184			
11,600.00	7,254.00	11,574.94	7,056.00	123.75	123.06	84.83	1,656.50	-4,448.47	2,199.16	1,954.40	244.76	8.985			
11,700.00	7,254.00	11,674.94	7,056.00	126.41	125.68	84.83	1,655.63	-4,548.46	2,199.12	1,949.07	250.06	8.795			
11,800.00	7,254.00	11,774.94	7,056.00	129.08	128.31	84.83	1,654.77	-4,648.46	2,199.09	1,943.73	255.36	8.612			
11,900.00	7,254.00	11,874.94	7,056.00	131.75	130.94	84.83	1,653.90	-4,748.45	2,199.05	1,938.39	260.66	8.436			
12,000.00	7,254.00	11,974.94	7,056.00	134.41	133.57	84.83	1,653.04	-4,848.45	2,199.02	1,933.04	265.97	8.268			
12,100.00	7,254.00	12,074.94	7,056.00	137.08	136.21	84.83	1,652.17	-4,948.45	2,198.98	1,927.69	271.29	8.106			
12,200.00	7,254.00	12,174.94	7,056.00	139.76	138.85	84.83	1,651.30	-5,048.44	2,198.94	1,922.34	276.61	7.950			
12,300.00	7,254.00	12,274.94	7,056.00	142.43	141.49	84.83	1,650.44	-5,148.44	2,198.91	1,916.98	281.93	7.799			
12,400.00	7,254.00	12,374.94	7,056.00	145.11	144.13	84.83	1,649.57	-5,248.44	2,198.87	1,911.62	287.26	7.655			
12,500.00	7,254.00	12,474.94	7,056.00	147.79	146.78	84.83	1,648.71	-5,348.43	2,198.84	1,906.25	292.59	7.515			
12,600.00	7,254.00	12,574.94	7,056.00	150.47	149.43	84.83	1,647.84	-5,448.43	2,198.80	1,900.88	297.92	7.380			
12,700.00	7,254.00	12,674.94	7,056.00	153.15	152.09	84.83	1,646.98	-5,548.42	2,198.77	1,895.51	303.26	7.250			
12,800.00	7,254.00	12,774.94	7,056.00	155.83	154.74	84.83	1,646.11	-5,648.42	2,198.73	1,890.13	308.60	7.125			
12,900.00	7,254.00	12,874.94	7,056.00	158.51	157.40	84.83	1,645.25	-5,748.42	2,198.70	1,884.75	313.94	7.003			
13,000.00	7,254.00	12,974.94	7,056.00	161.20	160.06	84.83	1,644.38	-5,848.41	2,198.66	1,879.37	319.29	6.886			
13,100.00	7,254.00	13,074.94	7,056.00	163.88	162.73	84.83	1,643.51	-5,948.41	2,198.63	1,873.99	324.64	6.773			
13,200.00	7,254.00	13,174.94	7,056.00	166.57	165.39	84.83	1,642.65	-6,048.41	2,198.59	1,868.60	329.99	6.663			
13,300.00	7,254.00	13,274.94	7,056.00	169.26	168.06	84.83	1,641.78	-6,148.40	2,198.56	1,863.21	335.34	6.556			
13,400.00	7,254.00	13,374.94	7,056.00	171.95	170.73	84.83	1,640.92	-6,248.40	2,198.52	1,857.82	340.70	6.453			
13,500.00	7,254.00	13,474.94	7,056.00	174.64	173.40	84.83	1,640.05	-6,348.39	2,198.49	1,852.43	346.06	6.353			
13,600.00	7,254.00	13,574.94	7,056.00	177.33	176.07	84.83	1,639.19	-6,448.39	2,198.45	1,847.03	351.42	6.256			
13,700.00	7,254.00	13,674.94	7,056.00	180.02	178.74	84.83	1,638.32	-6,548.39	2,198.42	1,841.64	356.78	6.162			
13,800.00	7,254.00	13,774.94	7,056.00	182.72	181.42	84.83	1,637.45	-6,648.38	2,198.38	1,836.24	362.14	6.070			
13,900.00	7,254.00	13,874.94	7,056.00	185.41	184.09	84.83	1,636.59	-6,748.38	2,198.34	1,830.84	367.51	5.982			
14,000.00	7,254.00	13,974.94	7,056.00	188.11	186.77	84.83	1,635.72	-6,848.37	2,198.31	1,825.43	372.87	5.896			
14,100.00	7,254.00	14,074.94	7,056.00	190.80	189.45	84.83	1,634.86	-6,948.37	2,198.27	1,820.03	378.24	5.812			
14,200.00	7,254.00	14,174.94	7,056.00	193.50	192.13	84.83	1,633.99	-7,048.37	2,198.24	1,814.63	383.61	5.730			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-6H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,300.00	7,254.00	14,274.94	7,056.00	196.19	194.81	84.83	1,633.13	-7,148.36	2,198.20	1,809.22	388.99	5.651			
14,400.00	7,254.00	14,374.94	7,056.00	198.89	197.49	84.83	1,632.26	-7,248.36	2,198.17	1,803.81	394.36	5.574			
14,500.00	7,254.00	14,474.94	7,056.00	201.59	200.18	84.83	1,631.39	-7,348.36	2,198.13	1,798.40	399.73	5.499			
14,600.00	7,254.00	14,574.94	7,056.00	204.29	202.86	84.83	1,630.53	-7,448.35	2,198.10	1,792.99	405.11	5.426			
14,700.00	7,254.00	14,674.94	7,056.00	206.99	205.55	84.83	1,629.66	-7,548.35	2,198.06	1,787.58	410.49	5.355			
14,800.00	7,254.00	14,774.94	7,056.00	209.69	208.23	84.83	1,628.80	-7,648.34	2,198.03	1,782.16	415.86	5.285			
14,900.00	7,254.00	14,874.94	7,056.00	212.39	210.92	84.83	1,627.93	-7,748.34	2,197.99	1,776.75	421.24	5.218			
15,000.00	7,254.00	14,974.94	7,056.00	215.09	213.61	84.83	1,627.07	-7,848.34	2,197.96	1,771.33	426.62	5.152			
15,100.00	7,254.00	15,074.94	7,056.00	217.79	216.30	84.83	1,626.20	-7,948.33	2,197.92	1,765.91	432.01	5.088			
15,200.00	7,254.00	15,174.94	7,056.00	220.50	218.99	84.83	1,625.34	-8,048.33	2,197.89	1,760.50	437.39	5.025			
15,300.00	7,254.00	15,274.94	7,056.00	223.20	221.68	84.83	1,624.47	-8,148.33	2,197.85	1,755.08	442.77	4.964			
15,400.00	7,254.00	15,374.94	7,056.00	225.90	224.37	84.83	1,623.60	-8,248.32	2,197.82	1,749.66	448.16	4.904			
15,500.00	7,254.00	15,474.94	7,056.00	228.61	227.06	84.83	1,622.74	-8,348.32	2,197.78	1,744.24	453.54	4.846			
15,522.02	7,254.00	15,496.19	7,056.00	229.20	227.63	84.83	1,622.55	-8,369.57	2,197.77	1,743.06	454.71	4.833			
15,600.00	7,254.00	15,496.19	7,056.00	231.31	227.63	84.83	1,622.55	-8,369.57	2,199.15	1,742.14	457.01	4.812			
15,602.20	7,254.00	15,496.19	7,056.00	231.37	227.63	84.83	1,622.55	-8,369.57	2,199.22	1,742.15	457.07	4.812			

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Highside		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			
0.00	0.00	0.00	0.00	0.00	0.00	-150.73	-54.64	-30.63	62.64	62.36	0.29	218.439			
100.00	100.00	100.00	100.00	0.14	0.14	-150.73	-54.64	-30.63	62.64	61.64	1.00	62.411			
200.00	200.00	200.00	200.00	0.50	0.50	-150.73	-54.64	-30.63	62.64	60.92	1.72	36.407			
300.00	300.00	300.00	300.00	0.86	0.86	-150.73	-54.64	-30.63	62.64	60.21	2.44	25.699			
400.00	400.00	400.00	400.00	1.22	1.22	-150.73	-54.64	-30.63	62.64	59.49	3.15	19.858			
500.00	500.00	500.00	500.00	1.58	1.58	-150.73	-54.64	-30.63	62.64	58.77	3.87	16.181			
600.00	600.00	600.00	600.00	1.94	1.94	-150.73	-54.64	-30.63	62.64	58.05	4.59	13.652			
700.00	700.00	700.00	700.00	2.29	2.29	-150.73	-54.64	-30.63	62.64	57.33	5.31	11.621			
800.00	799.98	799.98	799.98	2.64	2.65	47.86	-54.64	-30.63	61.46	56.17	5.29	11.621			
900.00	899.84	899.84	899.84	2.97	3.01	51.74	-54.64	-30.63	58.08	55.10	5.98	9.713			
930.56	930.31	930.31	930.31	3.07	3.12	53.58	-54.64	-30.63	56.68	54.49	6.19	9.154			
1,000.00	999.53	999.53	999.53	3.31	3.37	58.38	-54.64	-30.63	53.55	46.87	6.68	8.019			
1,100.00	1,099.20	1,099.20	1,099.20	3.66	3.73	66.26	-54.64	-30.63	49.80	42.41	7.38	6.743			
1,200.00	1,198.88	1,198.88	1,198.88	4.02	4.08	75.22	-54.64	-30.63	47.13	39.03	8.10	5.819			
1,300.00	1,298.56	1,298.56	1,298.56	4.38	4.44	84.97	-54.64	-30.63	45.74	36.92	8.82	5.186			
<b>1,350.02</b>	<b>1,348.41</b>	<b>1,348.41</b>	<b>1,348.41</b>	<b>4.56</b>	<b>4.62</b>	<b>90.00</b>	<b>-54.64</b>	<b>-30.63</b>	<b>45.56</b>	<b>36.38</b>	<b>9.18</b>	<b>4.962 CC</b>			
1,400.00	1,398.23	1,398.23	1,398.23	4.75	4.80	95.02	-54.64	-30.63	45.74	36.19	9.54	4.793 ES			
1,500.00	1,497.91	1,497.91	1,497.91	5.12	5.15	104.78	-54.64	-30.63	47.13	36.86	10.26	4.591			
1,600.00	1,597.58	1,597.58	1,597.58	5.49	5.51	113.73	-54.64	-30.63	49.80	38.81	10.98	4.534			
1,700.00	1,697.26	1,697.26	1,697.26	5.86	5.87	121.62	-54.64	-30.63	53.55	41.85	11.70	4.578			
1,800.00	1,796.94	1,796.94	1,796.94	6.23	6.23	128.36	-54.64	-30.63	58.18	45.77	12.41	4.688			
1,900.00	1,896.61	1,896.61	1,896.61	6.61	6.58	134.05	-54.64	-30.63	63.49	50.37	13.12	4.839			
2,000.00	1,996.29	1,996.29	1,996.29	6.99	6.94	138.82	-54.64	-30.63	69.33	55.50	13.83	5.013			
2,100.00	2,095.97	2,095.97	2,095.97	7.37	7.30	142.84	-54.64	-30.63	75.57	61.03	14.54	5.197			
2,200.00	2,195.64	2,195.64	2,195.64	7.75	7.66	146.22	-54.64	-30.63	82.13	66.88	15.25	5.385			
2,300.00	2,295.32	2,295.32	2,295.32	8.12	8.01	149.10	-54.64	-30.63	88.93	72.97	15.96	5.571			
2,400.00	2,394.99	2,394.99	2,394.99	8.51	8.37	151.57	-54.64	-30.63	95.92	79.25	16.67	5.753			
2,500.00	2,494.67	2,492.26	2,492.24	8.89	8.72	154.22	-53.16	-30.61	104.17	86.80	17.36	5.999			
2,600.00	2,594.35	2,588.70	2,588.56	9.27	9.06	157.54	-48.43	-30.56	115.15	97.12	18.03	6.386			
2,700.00	2,694.02	2,684.21	2,683.75	9.65	9.41	161.15	-40.56	-30.48	129.11	110.44	18.68	6.913			
2,800.00	2,793.70	2,778.61	2,777.51	10.03	9.74	164.73	-29.66	-30.37	146.24	126.94	19.30	7.578			
2,900.00	2,893.38	2,871.71	2,869.58	10.41	10.08	168.07	-15.90	-30.22	166.63	146.73	19.89	8.375			
3,000.00	2,993.05	2,963.35	2,959.72	10.80	10.42	171.09	0.56	-30.05	190.28	169.82	20.47	9.298			
3,100.00	3,092.73	3,053.37	3,047.72	11.18	10.76	173.75	19.53	-29.85	217.17	196.16	21.01	10.337			
3,200.00	3,192.41	3,141.64	3,133.39	11.56	11.10	176.07	40.81	-29.63	247.21	225.69	21.53	11.484			
3,300.00	3,292.08	3,228.07	3,216.58	11.94	11.45	178.07	64.19	-29.38	280.31	258.29	22.02	12.730			
3,400.00	3,391.76	3,320.08	3,304.67	12.33	11.84	179.88	90.79	-29.10	315.40	292.74	22.66	13.920			
3,500.00	3,491.43	3,413.29	3,393.89	12.71	12.24	-178.66	117.75	-28.82	350.75	327.42	23.33	15.035			
3,600.00	3,591.11	3,506.49	3,483.11	13.09	12.66	-177.46	144.71	-28.54	386.26	362.26	24.01	16.090			
3,700.00	3,690.79	3,599.69	3,572.32	13.48	13.09	-176.46	171.68	-28.26	421.90	397.21	24.69	17.089			
3,800.00	3,790.46	3,692.89	3,661.54	13.86	13.52	-175.62	198.64	-27.97	457.64	432.26	25.37	18.035			
3,900.00	3,890.14	3,786.09	3,750.75	14.25	13.97	-174.89	225.60	-27.69	493.44	467.38	26.06	18.932			
4,000.00	3,989.82	3,879.29	3,839.97	14.63	14.42	-174.27	252.57	-27.41	529.31	502.55	26.76	19.783			
4,100.00	4,089.49	3,972.49	3,929.18	15.01	14.88	-173.73	279.53	-27.12	565.23	537.77	27.45	20.590			
4,200.00	4,189.17	4,065.69	4,018.40	15.40	15.35	-173.25	306.49	-26.84	601.18	573.03	28.15	21.358			
4,300.00	4,288.84	4,158.90	4,107.61	15.78	15.82	-172.82	333.46	-26.56	637.17	608.32	28.85	22.088			
4,400.00	4,388.52	4,252.10	4,196.83	16.17	16.30	-172.44	360.42	-26.28	673.18	643.63	29.55	22.783			
4,500.00	4,488.20	4,345.30	4,286.04	16.55	16.78	-172.10	387.38	-25.99	709.22	678.97	30.25	23.446			
4,600.00	4,587.87	4,438.50	4,375.26	16.94	17.26	-171.79	414.35	-25.71	745.28	714.32	30.95	24.078			
4,700.00	4,687.55	4,531.70	4,464.47	17.32	17.75	-171.51	441.31	-25.43	781.35	749.69	31.66	24.681			
4,800.00	4,787.23	4,624.90	4,553.69	17.71	18.25	-171.25	468.28	-25.14	817.44	785.08	32.37	25.257			
4,900.00	4,886.90	4,718.10	4,642.90	18.09	18.74	-171.02	495.24	-24.86	853.54	820.47	33.07	25.808			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)			
5,000.00	4,986.58	4,811.30	4,732.12	18.48	19.24	-170.80	522.20	-24.58	889.66	855.88	33.78	26.335		
5,100.00	5,086.26	4,904.50	4,821.33	18.86	19.75	-170.60	549.17	-24.30	925.78	891.29	34.49	26.840		
5,200.00	5,185.93	4,997.71	4,910.55	19.25	20.25	-170.42	576.13	-24.01	961.92	926.71	35.20	27.325		
5,300.00	5,285.61	5,090.91	4,999.76	19.63	20.76	-170.25	603.09	-23.73	998.06	962.14	35.92	27.789		
5,400.00	5,385.28	5,184.11	5,088.98	20.02	21.27	-170.09	630.06	-23.45	1,034.20	997.58	36.63	28.235		
5,500.00	5,484.96	5,277.31	5,178.19	20.40	21.79	-169.95	657.02	-23.17	1,070.36	1,033.02	37.34	28.663		
5,600.00	5,584.64	5,370.51	5,267.41	20.79	22.30	-169.81	683.98	-22.88	1,106.52	1,068.46	38.06	29.075		
5,700.00	5,684.31	5,463.71	5,356.63	21.17	22.82	-169.68	710.95	-22.60	1,142.68	1,103.91	38.77	29.471		
5,800.00	5,783.99	5,556.91	5,445.84	21.56	23.34	-169.56	737.91	-22.32	1,178.86	1,139.37	39.49	29.852		
5,900.00	5,883.67	5,650.11	5,535.06	21.94	23.86	-169.44	764.87	-22.03	1,215.03	1,174.82	40.21	30.219		
6,000.00	5,983.34	5,743.32	5,624.27	22.33	24.38	-169.33	791.84	-21.75	1,251.21	1,210.28	40.93	30.573		
6,100.00	6,083.02	5,836.52	5,713.49	22.71	24.90	-169.23	818.80	-21.47	1,287.39	1,245.75	41.64	30.914		
6,200.00	6,182.69	5,929.72	5,802.70	23.10	25.43	-169.14	845.76	-21.19	1,323.58	1,281.21	42.36	31.244		
6,300.00	6,282.37	6,022.92	5,891.92	23.48	25.95	-169.05	872.73	-20.90	1,359.76	1,316.68	43.08	31.562		
6,400.00	6,382.05	6,116.12	5,981.13	23.87	26.48	-168.96	899.69	-20.62	1,395.96	1,352.15	43.80	31.869		
6,500.00	6,481.72	6,209.32	6,070.35	24.25	27.01	-168.88	926.65	-20.34	1,432.15	1,387.63	44.52	32.165		
6,600.00	6,581.40	6,302.52	6,159.56	24.64	27.53	-168.80	953.62	-20.05	1,468.35	1,423.10	45.25	32.452		
6,688.27	6,669.38	6,384.79	6,238.31	24.98	28.00	-168.74	977.42	-19.80	1,500.30	1,454.41	45.88	32.698		
6,700.00	6,681.08	6,395.73	6,248.78	25.02	28.07	176.12	980.58	-19.77	1,504.53	1,458.57	45.97	32.730		
6,750.00	6,730.87	6,442.27	6,293.33	25.21	28.33	124.73	994.04	-19.63	1,522.31	1,475.99	46.32	32.865		
6,800.00	6,780.30	6,488.44	6,337.53	25.38	28.59	105.06	1,007.40	-19.49	1,539.55	1,492.90	46.66	32.996		
6,850.00	6,828.99	6,533.90	6,381.05	25.54	28.85	96.25	1,020.55	-19.35	1,556.22	1,509.23	46.98	33.122		
6,900.00	6,876.56	6,578.30	6,423.54	25.69	29.11	91.22	1,033.40	-19.22	1,572.26	1,524.96	47.30	33.242		
6,950.00	6,922.66	6,621.29	6,464.70	25.83	29.35	87.93	1,045.84	-19.09	1,587.69	1,540.09	47.60	33.356		
7,000.00	6,966.93	6,662.56	6,504.20	25.96	29.59	85.60	1,057.78	-18.96	1,602.53	1,554.65	47.89	33.463		
7,050.00	7,009.04	6,701.78	6,541.74	26.08	29.81	83.86	1,069.12	-18.84	1,616.84	1,568.66	48.18	33.562		
7,100.00	7,048.66	6,738.66	6,577.05	26.19	30.02	82.51	1,079.79	-18.73	1,630.67	1,582.21	48.46	33.650		
7,150.00	7,085.51	6,773.22	6,610.13	26.30	30.22	81.42	1,089.79	-18.70	1,644.10	1,595.35	48.75	33.724		
7,200.00	7,119.28	6,808.57	6,643.93	26.39	30.42	80.56	1,099.99	-20.23	1,657.16	1,608.07	49.09	33.758		
7,250.00	7,149.73	6,845.74	6,679.32	26.49	30.63	79.90	1,110.65	-24.19	1,669.81	1,620.32	49.49	33.739		
7,300.00	7,176.63	6,885.27	6,716.60	26.60	30.85	79.45	1,121.86	-31.02	1,682.00	1,632.03	49.97	33.661		
7,350.00	7,199.77	6,927.88	6,756.17	26.76	31.09	79.20	1,133.74	-41.36	1,693.67	1,643.14	50.53	33.515		
7,400.00	7,218.98	6,974.56	6,798.57	26.99	31.34	79.16	1,146.43	-56.18	1,704.77	1,653.57	51.19	33.299		
7,450.00	7,234.10	7,026.76	6,844.44	27.33	31.61	79.36	1,160.12	-76.96	1,715.20	1,663.24	51.96	33.010		
7,500.00	7,245.03	7,086.61	6,894.55	27.75	31.91	79.84	1,175.03	-106.02	1,724.87	1,672.03	52.84	32.643		
7,550.00	7,251.68	7,157.24	6,949.60	28.25	32.25	80.66	1,191.33	-147.10	1,733.61	1,679.76	53.85	32.192		
7,600.00	7,254.00	7,243.39	7,009.56	28.79	32.65	81.88	1,208.96	-206.27	1,741.18	1,686.15	55.03	31.643		
7,601.67	7,254.00	7,246.61	7,011.63	28.81	32.66	81.92	1,209.57	-208.65	1,741.40	1,686.34	55.07	31.623		
7,700.00	7,254.00	7,500.29	7,129.84	30.03	33.93	85.93	1,243.50	-428.16	1,752.12	1,693.78	58.33	30.037		
7,800.00	7,254.00	7,718.40	7,153.00	31.47	35.45	86.70	1,248.73	-643.97	1,753.79	1,691.73	62.07	28.257		
7,900.00	7,254.00	7,818.40	7,153.00	33.06	36.41	86.70	1,247.91	-743.96	1,753.81	1,688.74	65.07	26.954		
8,000.00	7,254.00	7,918.40	7,153.00	34.80	37.58	86.70	1,247.09	-843.96	1,753.82	1,685.45	68.37	25.653		
8,100.00	7,254.00	8,018.40	7,153.00	36.66	38.93	86.70	1,246.27	-943.96	1,753.83	1,681.90	71.93	24.383		
8,200.00	7,254.00	8,118.40	7,153.00	38.62	40.46	86.70	1,245.45	-1,043.95	1,753.84	1,678.13	75.71	23.165		
8,300.00	7,254.00	8,218.40	7,153.00	40.66	42.13	86.70	1,244.64	-1,143.95	1,753.85	1,674.17	79.69	22.009		
8,400.00	7,254.00	8,318.40	7,153.00	42.78	43.93	86.70	1,243.82	-1,243.95	1,753.86	1,670.04	83.83	20.923		
8,500.00	7,254.00	8,418.40	7,153.00	44.97	45.83	86.70	1,243.00	-1,343.94	1,753.88	1,665.77	88.11	19.906		
8,600.00	7,254.00	8,518.40	7,153.00	47.21	47.83	86.70	1,242.18	-1,443.94	1,753.89	1,661.38	92.51	18.959		
8,700.00	7,254.00	8,618.40	7,153.00	49.50	49.90	86.70	1,241.36	-1,543.94	1,753.90	1,656.88	97.01	18.079		
8,800.00	7,254.00	8,718.40	7,153.00	51.83	52.04	86.70	1,240.54	-1,643.93	1,753.91	1,652.30	101.61	17.261		
8,900.00	7,254.00	8,818.40	7,153.00	54.20	54.23	86.70	1,239.72	-1,743.93	1,753.92	1,647.63	106.29	16.501		
9,000.00	7,254.00	8,918.40	7,153.00	56.60	56.48	86.70	1,238.91	-1,843.93	1,753.93	1,642.90	111.04	15.796		

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSAL #1															Offset Site Error:	0.00 usft	
Survey Program: Reference		0-OWSG (Rev2) MWD Offset				Semi Major Axis Reference      Offset		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Separation Factor	Warning	Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	+N/-S (usft)	+E/-W (usft)		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Warning					
9,100.00	7,254.00	9,018.40	7,153.00	59.03	58.77	86.70	1,238.09	-1,943.92	1,753.95	1,638.10	115.84	15.141					
9,200.00	7,254.00	9,118.40	7,153.00	61.48	61.09	86.70	1,237.27	-2,043.92	1,753.96	1,633.25	120.70	14.531					
9,300.00	7,254.00	9,218.40	7,153.00	63.95	63.45	86.70	1,236.45	-2,143.92	1,753.97	1,628.36	125.61	13.964					
9,400.00	7,254.00	9,318.40	7,153.00	66.44	65.84	86.70	1,235.63	-2,243.91	1,753.98	1,623.42	130.56	13.434					
9,500.00	7,254.00	9,418.40	7,153.00	68.96	68.26	86.70	1,234.81	-2,343.91	1,753.99	1,618.45	135.55	12.940					
9,600.00	7,254.00	9,518.40	7,153.00	71.48	70.69	86.70	1,234.00	-2,443.91	1,754.00	1,613.44	140.57	12.478					
9,700.00	7,254.00	9,618.40	7,153.00	74.02	73.15	86.70	1,233.18	-2,543.90	1,754.02	1,608.40	145.62	12.045					
9,800.00	7,254.00	9,718.40	7,153.00	76.57	75.63	86.70	1,232.36	-2,643.90	1,754.03	1,603.33	150.69	11.640					
9,900.00	7,254.00	9,818.40	7,153.00	79.14	78.13	86.70	1,231.54	-2,743.90	1,754.04	1,598.24	155.80	11.259					
10,000.00	7,254.00	9,918.40	7,153.00	81.71	80.64	86.70	1,230.72	-2,843.89	1,754.05	1,593.13	160.92	10.900					
10,100.00	7,254.00	10,018.40	7,153.00	84.29	83.16	86.70	1,229.90	-2,943.89	1,754.06	1,588.00	166.06	10.563					
10,200.00	7,254.00	10,118.40	7,153.00	86.88	85.70	86.70	1,229.08	-3,043.89	1,754.07	1,582.85	171.22	10.244					
10,300.00	7,254.00	10,218.40	7,153.00	89.48	88.24	86.70	1,228.27	-3,143.88	1,754.09	1,577.69	176.40	9.944					
10,400.00	7,254.00	10,318.40	7,153.00	92.09	90.80	86.70	1,227.45	-3,243.88	1,754.10	1,572.50	181.59	9.659					
10,500.00	7,254.00	10,418.40	7,153.00	94.70	93.37	86.70	1,226.63	-3,343.88	1,754.11	1,567.31	186.80	9.390					
10,600.00	7,254.00	10,518.40	7,153.00	97.32	95.94	86.70	1,225.81	-3,443.87	1,754.12	1,562.10	192.02	9.135					
10,700.00	7,254.00	10,618.40	7,153.00	99.95	98.53	86.70	1,224.99	-3,543.87	1,754.13	1,556.88	197.25	8.893					
10,800.00	7,254.00	10,718.40	7,153.00	102.58	101.12	86.70	1,224.17	-3,643.87	1,754.14	1,551.65	202.49	8.663					
10,900.00	7,254.00	10,818.40	7,153.00	105.21	103.72	86.70	1,223.35	-3,743.86	1,754.16	1,546.41	207.74	8.444					
11,000.00	7,254.00	10,918.40	7,153.00	107.85	106.32	86.70	1,222.54	-3,843.86	1,754.17	1,541.16	213.01	8.235					
11,100.00	7,254.00	11,018.40	7,153.00	110.49	108.93	86.70	1,221.72	-3,943.86	1,754.18	1,535.90	218.28	8.037					
11,200.00	7,254.00	11,118.40	7,153.00	113.14	111.55	86.70	1,220.90	-4,043.85	1,754.19	1,530.64	223.55	7.847					
11,300.00	7,254.00	11,218.40	7,153.00	115.79	114.17	86.70	1,220.08	-4,143.85	1,754.20	1,525.37	228.84	7.666					
11,400.00	7,254.00	11,318.40	7,153.00	118.44	116.79	86.70	1,219.26	-4,243.85	1,754.22	1,520.08	234.13	7.492					
11,500.00	7,254.00	11,418.40	7,153.00	121.09	119.42	86.70	1,218.44	-4,343.84	1,754.23	1,514.80	239.43	7.327					
11,600.00	7,254.00	11,518.40	7,153.00	123.75	122.06	86.70	1,217.63	-4,443.84	1,754.24	1,509.51	244.73	7.168					
11,700.00	7,254.00	11,618.40	7,153.00	126.41	124.69	86.70	1,216.81	-4,543.84	1,754.25	1,504.21	250.04	7.016					
11,800.00	7,254.00	11,718.40	7,153.00	129.08	127.34	86.70	1,215.99	-4,643.83	1,754.26	1,498.90	255.36	6.870					
11,900.00	7,254.00	11,818.40	7,153.00	131.75	129.98	86.70	1,215.17	-4,743.83	1,754.27	1,493.59	260.68	6.730					
12,000.00	7,254.00	11,918.40	7,153.00	134.41	132.63	86.70	1,214.35	-4,843.83	1,754.29	1,488.28	266.00	6.595					
12,100.00	7,254.00	12,018.40	7,153.00	137.08	135.28	86.70	1,213.53	-4,943.82	1,754.30	1,482.96	271.33	6.465					
12,200.00	7,254.00	12,118.40	7,153.00	139.76	137.93	86.70	1,212.71	-5,043.82	1,754.31	1,477.64	276.67	6.341					
12,300.00	7,254.00	12,218.40	7,153.00	142.43	140.59	86.70	1,211.90	-5,143.82	1,754.32	1,472.32	282.00	6.221					
12,400.00	7,254.00	12,318.40	7,153.00	145.11	143.25	86.70	1,211.08	-5,243.81	1,754.33	1,466.99	287.35	6.105					
12,500.00	7,254.00	12,418.40	7,153.00	147.79	145.91	86.70	1,210.26	-5,343.81	1,754.34	1,461.65	292.69	5.994					
12,600.00	7,254.00	12,518.40	7,153.00	150.47	148.57	86.70	1,209.44	-5,443.81	1,754.36	1,456.32	298.04	5.886					
12,700.00	7,254.00	12,618.40	7,153.00	153.15	151.24	86.70	1,208.62	-5,543.80	1,754.37	1,450.98	303.39	5.783					
12,800.00	7,254.00	12,718.40	7,153.00	155.83	153.90	86.70	1,207.80	-5,643.80	1,754.38	1,445.63	308.74	5.682					
12,900.00	7,254.00	12,818.40	7,153.00	158.51	156.57	86.70	1,206.98	-5,743.80	1,754.39	1,440.29	314.10	5.585					
13,000.00	7,254.00	12,918.40	7,153.00	161.20	159.24	86.70	1,206.17	-5,843.79	1,754.40	1,434.94	319.46	5.492					
13,100.00	7,254.00	13,018.40	7,153.00	163.88	161.92	86.70	1,205.35	-5,943.79	1,754.41	1,429.59	324.82	5.401					
13,200.00	7,254.00	13,118.40	7,153.00	166.57	164.59	86.70	1,204.53	-6,043.79	1,754.43	1,424.24	330.19	5.313					
13,300.00	7,254.00	13,218.40	7,153.00	169.26	167.27	86.70	1,203.71	-6,143.78	1,754.44	1,418.88	335.55	5.228					
13,400.00	7,254.00	13,318.40	7,153.00	171.95	169.94	86.70	1,202.89	-6,243.78	1,754.45	1,413.53	340.92	5.146					
13,500.00	7,254.00	13,418.40	7,153.00	174.64	172.62	86.70	1,202.07	-6,343.78	1,754.46	1,408.17	346.29	5.066					
13,600.00	7,254.00	13,518.40	7,153.00	177.33	175.30	86.70	1,201.26	-6,443.77	1,754.47	1,402.81	351.67	4.989					
13,700.00	7,254.00	13,618.40	7,153.00	180.02	177.98	86.70	1,200.44	-6,543.77	1,754.48	1,397.44	357.04	4.914					
13,800.00	7,254.00	13,718.40	7,153.00	182.72	180.67	86.70	1,199.62	-6,643.77	1,754.50	1,392.08	362.42	4.841					
13,900.00	7,254.00	13,818.40	7,153.00	185.41	183.35	86.70	1,198.80	-6,743.76	1,754.51	1,386.71	367.80	4.770					
14,000.00	7,254.00	13,918.40	7,153.00	188.11	186.04	86.70	1,197.98	-6,843.76	1,754.52	1,381.34	373.18	4.702					
14,100.00	7,254.00	14,018.40	7,153.00	190.80	188.72	86.70	1,197.16	-6,943.76	1,754.53	1,375.97	378.56	4.635					
14,200.00	7,254.00	14,118.40	7,153.00	193.50	191.41	86.70	1,196.34	-7,043.75	1,754.54	1,370.60	383.94	4.570					

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Highside		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,300.00	7,254.00	14,218.40	7,153.00	196.19	194.10	86.70		86.70	1,195.53	-7,143.75	1,754.55	1,365.23	389.33	4.507		
14,400.00	7,254.00	14,318.40	7,153.00	198.89	196.79	86.70		86.70	1,194.71	-7,243.75	1,754.57	1,359.85	394.71	4.445		
14,500.00	7,254.00	14,418.40	7,153.00	201.59	199.47	86.70		86.70	1,193.89	-7,343.74	1,754.58	1,354.48	400.10	4.385		
14,600.00	7,254.00	14,518.40	7,153.00	204.29	202.17	86.70		86.70	1,193.07	-7,443.74	1,754.59	1,349.10	405.49	4.327		
14,700.00	7,254.00	14,618.40	7,153.00	206.99	204.86	86.70		86.70	1,192.25	-7,543.74	1,754.60	1,343.72	410.88	4.270		
14,800.00	7,254.00	14,718.40	7,153.00	209.69	207.55	86.70		86.70	1,191.43	-7,643.73	1,754.61	1,338.34	416.27	4.215		
14,900.00	7,254.00	14,818.40	7,153.00	212.39	210.24	86.70		86.70	1,190.61	-7,743.73	1,754.62	1,332.96	421.66	4.161		
15,000.00	7,254.00	14,918.40	7,153.00	215.09	212.94	86.70		86.70	1,189.80	-7,843.73	1,754.64	1,327.58	427.06	4.109		
15,100.00	7,254.00	15,018.40	7,153.00	217.79	215.63	86.70		86.70	1,188.98	-7,943.72	1,754.65	1,322.20	432.45	4.057		
15,200.00	7,254.00	15,118.40	7,153.00	220.50	218.33	86.70		86.70	1,188.16	-8,043.72	1,754.66	1,316.81	437.85	4.007		
15,300.00	7,254.00	15,218.40	7,153.00	223.20	221.02	86.70		86.70	1,187.34	-8,143.72	1,754.67	1,311.43	443.24	3.959		
15,400.00	7,254.00	15,318.40	7,153.00	225.90	223.72	86.70		86.70	1,186.52	-8,243.71	1,754.68	1,306.04	448.64	3.911		
15,500.00	7,254.00	15,418.40	7,153.00	228.61	226.41	86.70		86.70	1,185.70	-8,343.71	1,754.69	1,300.65	454.04	3.865		
15,600.00	7,254.00	15,455.54	7,153.00	231.31	227.42	86.70		86.70	1,185.40	-8,380.85	1,755.83	1,298.06	457.77	3.836		
15,602.20	7,254.00	15,455.54	7,153.00	231.37	227.42	86.70		86.70	1,185.40	-8,380.85	1,755.90	1,298.07	457.82	3.835 SF		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD									Rule Assigned:				Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	0.01	47.36	0.00	47.36						
100.00	100.00	100.00	100.00	0.14	0.14	0.01	47.36	0.00	47.36	47.07	0.29	165.141			
200.00	200.00	200.00	200.00	0.50	0.50	0.01	47.36	0.00	47.36	46.36	1.00	47.183			
300.00	300.00	300.00	300.00	0.86	0.86	0.01	47.36	0.00	47.36	45.64	1.72	27.524 CC, ES			
400.00	400.00	398.34	398.32	1.22	1.21	0.06	49.05	0.05	49.07	46.64	2.43	20.159			
500.00	500.00	496.44	496.29	1.58	1.57	0.23	54.09	0.21	54.22	51.07	3.15	17.225			
600.00	600.00	594.09	593.57	1.94	1.93	0.44	62.43	0.48	62.76	58.91	3.86	16.278			
700.00	700.00	691.05	689.84	2.29	2.29	0.65	73.99	0.84	74.69	70.13	4.56	16.387			
800.00	799.98	789.10	786.87	2.64	2.68	-162.02	88.06	1.29	90.68	85.43	5.25	17.259			
900.00	899.84	887.20	883.94	2.97	3.08	-162.58	102.23	1.74	110.05	104.10	5.95	18.505			
930.56	930.31	917.04	913.46	3.07	3.20	-162.80	106.55	1.88	116.62	110.46	6.17	18.915			
1,000.00	999.53	984.76	980.48	3.31	3.48	-163.36	116.33	2.19	131.91	125.27	6.64	19.860			
1,100.00	1,099.20	1,082.29	1,076.98	3.66	3.89	-163.96	130.43	2.64	153.95	146.61	7.33	20.996			
1,200.00	1,198.88	1,179.82	1,173.49	4.02	4.29	-164.41	144.52	3.08	175.99	167.96	8.03	21.920			
1,300.00	1,298.56	1,277.36	1,270.00	4.38	4.70	-164.76	158.61	3.53	198.05	189.32	8.73	22.688			
1,400.00	1,398.23	1,374.89	1,366.50	4.75	5.11	-165.04	172.71	3.98	220.11	210.67	9.43	23.336			
1,500.00	1,497.91	1,472.42	1,463.01	5.12	5.52	-165.27	186.80	4.42	242.17	232.03	10.14	23.888			
1,600.00	1,597.58	1,569.95	1,559.52	5.49	5.93	-165.46	200.90	4.87	264.24	253.39	10.85	24.364			
1,700.00	1,697.26	1,667.48	1,656.02	5.86	6.34	-165.63	214.99	5.32	286.31	274.75	11.55	24.779			
1,800.00	1,796.94	1,765.01	1,752.53	6.23	6.76	-165.76	229.09	5.77	308.38	296.11	12.26	25.144			
1,900.00	1,896.61	1,862.54	1,849.04	6.61	7.17	-165.89	243.18	6.21	330.45	317.47	12.98	25.466			
2,000.00	1,996.29	1,960.07	1,945.54	6.99	7.58	-165.99	257.27	6.66	352.52	338.84	13.69	25.753			
2,100.00	2,095.97	2,057.61	2,042.05	7.37	8.00	-166.08	271.37	7.11	374.60	360.20	14.40	26.011			
2,200.00	2,195.64	2,155.14	2,138.56	7.75	8.41	-166.17	285.46	7.55	396.67	381.56	15.12	26.243			
2,300.00	2,295.32	2,252.67	2,235.06	8.12	8.83	-166.24	299.56	8.00	418.75	402.92	15.83	26.453			
2,400.00	2,394.99	2,350.20	2,331.57	8.51	9.24	-166.31	313.65	8.45	440.83	424.28	16.55	26.644			
2,500.00	2,494.67	2,447.73	2,428.08	8.89	9.66	-166.37	327.74	8.90	462.91	445.65	17.26	26.819			
2,600.00	2,594.35	2,545.26	2,524.58	9.27	10.07	-166.42	341.84	9.34	484.98	467.01	17.98	26.975			
2,700.00	2,694.02	2,642.79	2,621.09	9.65	10.49	-166.47	355.93	9.79	507.06	488.37	18.69	27.126			
2,800.00	2,793.70	2,740.33	2,717.60	10.03	10.90	-166.52	370.03	10.24	529.14	509.73	19.41	27.262			
2,900.00	2,893.38	2,837.86	2,814.10	10.41	11.32	-166.56	384.12	10.68	551.22	531.09	20.13	27.388			
3,000.00	2,993.05	2,935.39	2,910.61	10.80	11.73	-166.60	398.21	11.13	573.30	552.46	20.84	27.505			
3,100.00	3,092.73	3,032.92	3,007.12	11.18	12.15	-166.63	412.31	11.58	595.38	573.82	21.56	27.614			
3,200.00	3,192.41	3,130.45	3,103.62	11.56	12.57	-166.66	426.40	12.03	617.46	595.18	22.28	27.715			
3,300.00	3,292.08	3,227.98	3,200.13	11.94	12.98	-166.70	440.50	12.47	639.54	616.54	23.00	27.810			
3,400.00	3,391.76	3,325.51	3,296.64	12.33	13.40	-166.72	454.59	12.92	661.62	637.90	23.71	27.899			
3,500.00	3,491.43	3,423.05	3,393.14	12.71	13.81	-166.75	468.68	13.37	683.70	659.27	24.43	27.983			
3,600.00	3,591.11	3,520.58	3,489.65	13.09	14.23	-166.78	482.78	13.81	705.78	680.63	25.15	28.061			
3,700.00	3,690.79	3,618.11	3,586.16	13.48	14.65	-166.80	496.87	14.26	727.86	701.99	25.87	28.135			
3,800.00	3,790.46	3,715.64	3,682.66	13.86	15.06	-166.82	510.97	14.71	749.94	723.35	26.59	28.205			
3,900.00	3,890.14	3,813.17	3,779.17	14.25	15.48	-166.84	525.06	15.16	772.02	744.71	27.31	28.271			
4,000.00	3,989.82	3,910.70	3,875.68	14.63	15.89	-166.86	539.15	15.60	794.10	766.08	28.03	28.334			
4,100.00	4,089.49	4,008.23	3,972.18	15.01	16.31	-166.88	553.25	16.05	816.18	787.44	28.75	28.393			
4,200.00	4,189.17	4,105.76	4,068.69	15.40	16.73	-166.90	567.34	16.50	838.26	808.80	29.47	28.449			
4,300.00	4,288.84	4,203.30	4,165.19	15.78	17.14	-166.92	581.44	16.94	860.35	830.16	30.18	28.503			
4,400.00	4,388.52	4,300.83	4,261.70	16.17	17.56	-166.93	595.53	17.39	882.43	851.52	30.90	28.554			
4,500.00	4,488.20	4,398.36	4,358.21	16.55	17.98	-166.95	609.62	17.84	904.51	872.88	31.62	28.602			
4,600.00	4,587.87	4,495.89	4,454.71	16.94	18.39	-166.96	623.72	18.29	926.59	894.25	32.34	28.648			
4,700.00	4,687.55	4,593.42	4,551.22	17.32	18.81	-166.98	637.81	18.73	948.67	915.61	33.06	28.693			
4,800.00	4,787.23	4,690.95	4,647.73	17.71	19.23	-166.99	651.91	19.18	970.75	936.97	33.78	28.735			
4,900.00	4,886.90	4,788.48	4,744.23	18.09	19.64	-167.00	666.00	19.63	992.83	958.33	34.50	28.775			
5,000.00	4,986.58	4,886.02	4,840.74	18.48	20.06	-167.02	680.10	20.07	1,014.91	979.69	35.22	28.814			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error: 0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD										Rule Assigned:			Offset Well Error: 0.00 usft	
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,086.26	4,983.55	4,937.25	18.86	20.47	-167.03	694.19	20.52	1,037.00	1,001.05	35.94	28.851		
5,200.00	5,185.93	5,081.08	5,033.75	19.25	20.89	-167.04	708.28	20.97	1,059.08	1,022.41	36.66	28.886		
5,300.00	5,285.61	5,178.61	5,130.26	19.63	21.31	-167.05	722.38	21.41	1,081.16	1,043.77	37.38	28.920		
5,400.00	5,385.28	5,276.14	5,226.77	20.02	21.72	-167.06	736.47	21.86	1,103.24	1,065.14	38.10	28.953		
5,500.00	5,484.96	5,373.67	5,323.27	20.40	22.14	-167.07	750.57	22.31	1,125.32	1,086.50	38.83	28.984		
5,600.00	5,584.64	5,471.20	5,419.78	20.79	22.56	-167.08	764.66	22.76	1,147.40	1,107.86	39.55	29.014		
5,700.00	5,684.31	5,568.74	5,516.29	21.17	22.97	-167.09	778.75	23.20	1,169.49	1,129.22	40.27	29.043		
5,800.00	5,783.99	5,694.70	5,641.04	21.56	23.50	-167.10	796.14	23.76	1,191.09	1,149.91	41.17	28.929		
5,900.00	5,883.67	5,863.51	5,809.12	21.94	24.15	-167.17	811.57	24.24	1,207.96	1,165.70	42.26	28.585		
6,000.00	5,983.34	6,035.14	5,980.63	22.33	24.72	-167.28	817.09	24.42	1,218.99	1,175.77	43.22	28.205		
6,100.00	6,083.02	6,137.52	6,083.02	22.71	25.03	-167.37	817.10	24.42	1,226.84	1,182.91	43.93	27.926		
6,200.00	6,182.69	6,237.20	6,182.69	23.10	25.33	-167.45	817.10	24.42	1,234.69	1,190.05	44.64	27.661		
6,300.00	6,282.37	6,336.88	6,282.37	23.48	25.64	-167.53	817.10	24.42	1,242.54	1,197.20	45.34	27.403		
6,400.00	6,382.05	6,436.55	6,382.05	23.87	25.94	-167.61	817.10	24.42	1,250.39	1,204.34	46.05	27.153		
6,500.00	6,481.72	6,536.23	6,481.72	24.25	26.25	-167.69	817.10	24.42	1,258.25	1,211.49	46.76	26.911		
6,600.00	6,581.40	6,635.91	6,581.40	24.64	26.56	-167.77	817.10	24.42	1,266.10	1,218.64	47.46	26.675		
6,688.27	6,669.38	6,723.89	6,669.38	24.98	26.84	-167.83	817.10	24.42	1,273.04	1,224.95	48.09	26.473		
6,700.00	6,681.08	6,734.95	6,680.45	25.02	26.87	177.37	817.10	24.41	1,273.95	1,225.78	48.17	26.448		
6,750.00	6,730.87	6,776.99	6,722.43	25.21	27.00	127.32	817.08	22.62	1,277.79	1,229.30	48.49	26.354		
6,800.00	6,780.30	6,819.04	6,764.19	25.38	27.12	108.81	817.04	17.75	1,281.54	1,232.75	48.79	26.267		
6,850.00	6,828.99	6,861.14	6,805.53	25.54	27.24	100.97	816.98	9.83	1,285.18	1,236.10	49.08	26.185		
6,900.00	6,876.56	6,900.00	6,843.08	25.69	27.36	96.74	816.90	-0.16	1,288.68	1,239.33	49.35	26.111		
6,950.00	6,922.66	6,945.65	6,886.19	25.83	27.48	94.13	816.77	-15.12	1,292.01	1,242.37	49.64	26.026		
7,000.00	6,966.93	6,988.13	6,925.14	25.96	27.60	92.35	816.64	-32.08	1,295.17	1,245.24	49.92	25.944		
7,050.00	7,009.04	7,030.82	6,962.89	26.08	27.71	91.10	816.47	-51.98	1,298.12	1,247.91	50.21	25.855		
7,100.00	7,048.66	7,073.75	6,999.26	26.19	27.82	90.19	816.29	-74.77	1,300.85	1,250.34	50.51	25.754		
7,150.00	7,085.51	7,116.96	7,034.04	26.30	27.93	89.52	816.08	-100.39	1,303.34	1,252.50	50.84	25.636		
7,200.00	7,119.28	7,160.49	7,067.02	26.39	28.03	89.05	815.84	-128.78	1,305.59	1,254.38	51.21	25.495		
7,250.00	7,149.73	7,204.38	7,098.01	26.49	28.15	88.73	815.59	-159.86	1,307.58	1,255.96	51.63	25.326		
7,300.00	7,176.63	7,250.00	7,127.58	26.60	28.27	88.54	815.30	-194.57	1,309.31	1,257.19	52.12	25.121		
7,350.00	7,199.77	7,293.43	7,153.10	26.76	28.39	88.45	815.01	-229.70	1,310.76	1,258.08	52.68	24.882		
7,400.00	7,218.98	7,338.67	7,176.76	26.99	28.54	88.47	814.70	-268.24	1,311.94	1,258.61	53.33	24.601		
7,450.00	7,234.10	7,384.45	7,197.54	27.33	28.72	88.58	814.36	-309.01	1,312.83	1,258.76	54.07	24.279		
7,500.00	7,245.03	7,430.80	7,215.19	27.75	28.94	88.77	814.01	-351.86	1,313.45	1,258.53	54.91	23.918		
7,550.00	7,251.68	7,477.78	7,229.49	28.25	29.23	89.05	813.65	-396.59	1,313.78	1,257.93	55.85	23.523		
7,600.00	7,254.00	7,525.42	7,240.20	28.79	29.58	89.40	813.26	-443.00	1,313.84	1,256.96	56.88	23.098		
7,601.67	7,254.00	7,527.02	7,240.49	28.81	29.59	89.41	813.25	-444.58	1,313.84	1,256.92	56.92	23.084		
7,690.39	7,254.00	7,613.97	7,249.73	29.91	30.40	89.81	812.54	-530.94	1,313.78	1,254.79	58.99	22.270		
7,700.00	7,254.00	7,623.50	7,249.94	30.03	30.50	89.82	812.47	-540.47	1,313.78	1,254.55	59.23	22.182		
7,800.00	7,254.00	7,723.44	7,250.00	31.47	31.69	89.83	811.65	-640.41	1,313.79	1,251.82	61.98	21.199		
7,900.00	7,254.00	7,823.44	7,250.00	33.06	33.08	89.83	810.83	-740.41	1,313.80	1,248.75	65.05	20.197		
8,000.00	7,254.00	7,923.44	7,250.00	34.80	34.64	89.83	810.01	-840.41	1,313.81	1,245.39	68.42	19.202		
8,100.00	7,254.00	8,023.44	7,250.00	36.66	36.34	89.83	809.18	-940.40	1,313.82	1,241.78	72.04	18.237		
8,200.00	7,254.00	8,123.44	7,250.00	38.62	38.17	89.83	808.36	-1,040.40	1,313.83	1,237.95	75.89	17.313		
8,300.00	7,254.00	8,223.44	7,250.00	40.66	40.10	89.83	807.54	-1,140.40	1,313.84	1,233.93	79.91	16.441		
8,400.00	7,254.00	8,323.44	7,250.00	42.78	42.12	89.83	806.72	-1,240.39	1,313.85	1,229.75	84.10	15.622		
8,500.00	7,254.00	8,423.44	7,250.00	44.97	44.22	89.83	805.90	-1,340.39	1,313.86	1,225.44	88.43	14.858		
8,600.00	7,254.00	8,523.44	7,250.00	47.21	46.39	89.83	805.08	-1,440.38	1,313.87	1,221.00	92.87	14.148		
8,700.00	7,254.00	8,623.44	7,250.00	49.50	48.61	89.83	804.26	-1,540.38	1,313.88	1,216.47	97.41	13.488		
8,800.00	7,254.00	8,723.44	7,250.00	51.83	50.87	89.83	803.44	-1,640.38	1,313.89	1,211.85	102.05	12.876		
8,900.00	7,254.00	8,823.44	7,250.00	54.20	53.19	89.83	802.62	-1,740.37	1,313.90	1,207.15	106.75	12.308		
9,000.00	7,254.00	8,923.44	7,250.00	56.60	55.54	89.83	801.80	-1,840.37	1,313.91	1,202.38	111.53	11.781		

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

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

**Offset Design:** SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft  
Offset Well Error: 0.00 usft

Survey Program: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
9,100.00	7,254.00	9,023.44	7,250.00	59.03	57.92	89.83	800.98	-1,940.37	1,313.92	1,197.56	116.37	11.291	
9,200.00	7,254.00	9,123.44	7,250.00	61.48	60.33	89.83	800.16	-2,040.36	1,313.93	1,192.68	121.25	10.836	
9,300.00	7,254.00	9,223.44	7,250.00	63.95	62.77	89.83	799.34	-2,140.36	1,313.94	1,187.76	126.18	10.413	
9,400.00	7,254.00	9,323.44	7,250.00	66.44	65.23	89.83	798.52	-2,240.36	1,313.95	1,182.80	131.16	10.018	
9,500.00	7,254.00	9,423.44	7,249.99	68.96	67.70	89.83	797.70	-2,340.35	1,313.96	1,177.80	136.17	9.650	
9,600.00	7,254.00	9,523.44	7,249.99	71.48	70.20	89.83	796.88	-2,440.35	1,313.97	1,172.77	141.21	9.305	
9,700.00	7,254.00	9,623.44	7,249.99	74.02	72.72	89.83	796.06	-2,540.35	1,313.98	1,167.71	146.28	8.983	
9,800.00	7,254.00	9,723.44	7,249.99	76.57	75.24	89.83	795.24	-2,640.34	1,313.99	1,162.62	151.37	8.681	
9,900.00	7,254.00	9,823.44	7,249.99	79.14	77.79	89.83	794.42	-2,740.34	1,314.00	1,157.51	156.49	8.397	
10,000.00	7,254.00	9,923.44	7,249.99	81.71	80.34	89.83	793.60	-2,840.34	1,314.01	1,152.38	161.63	8.130	
10,100.00	7,254.00	10,023.44	7,249.99	84.29	82.90	89.83	792.78	-2,940.33	1,314.02	1,147.23	166.79	7.878	
10,200.00	7,254.00	10,123.44	7,249.99	86.88	85.48	89.83	791.96	-3,040.33	1,314.03	1,142.06	171.97	7.641	
10,300.00	7,254.00	10,223.44	7,249.99	89.48	88.06	89.83	791.14	-3,140.33	1,314.04	1,136.88	177.16	7.417	
10,400.00	7,254.00	10,323.44	7,249.99	92.09	90.65	89.83	790.32	-3,240.32	1,314.05	1,131.68	182.37	7.205	
10,500.00	7,254.00	10,423.44	7,249.99	94.70	93.25	89.83	789.50	-3,340.32	1,314.06	1,126.47	187.59	7.005	
10,600.00	7,254.00	10,523.44	7,249.99	97.32	95.85	89.83	788.68	-3,440.32	1,314.07	1,121.25	192.82	6.815	
10,700.00	7,254.00	10,623.44	7,249.99	99.95	98.46	89.83	787.86	-3,540.31	1,314.08	1,116.01	198.07	6.634	
10,800.00	7,254.00	10,723.44	7,249.99	102.58	101.08	89.83	787.04	-3,640.31	1,314.09	1,110.77	203.32	6.463	
10,900.00	7,254.00	10,823.44	7,249.99	105.21	103.70	89.83	786.22	-3,740.31	1,314.10	1,105.51	208.59	6.300	
11,000.00	7,254.00	10,923.44	7,249.99	107.85	106.33	89.83	785.40	-3,840.30	1,314.11	1,100.25	213.86	6.145	
11,100.00	7,254.00	11,023.44	7,249.99	110.49	108.96	89.83	784.58	-3,940.30	1,314.12	1,094.98	219.15	5.997	
11,200.00	7,254.00	11,123.44	7,249.99	113.14	111.60	89.83	783.76	-4,040.30	1,314.13	1,089.70	224.44	5.855	
11,300.00	7,254.00	11,223.44	7,249.99	115.79	114.24	89.83	782.94	-4,140.29	1,314.14	1,084.41	229.73	5.720	
11,400.00	7,254.00	11,323.44	7,249.99	118.44	116.88	89.83	782.12	-4,240.29	1,314.15	1,079.12	235.04	5.591	
11,500.00	7,254.00	11,423.44	7,249.99	121.09	119.53	89.83	781.30	-4,340.29	1,314.16	1,073.82	240.35	5.468	
11,600.00	7,254.00	11,523.44	7,249.99	123.75	122.18	89.83	780.48	-4,440.28	1,314.17	1,068.51	245.66	5.349	
11,700.00	7,254.00	11,623.44	7,249.99	126.41	124.84	89.83	779.66	-4,540.28	1,314.18	1,063.20	250.98	5.236	
11,800.00	7,254.00	11,723.44	7,249.99	129.08	127.49	89.83	778.84	-4,640.28	1,314.19	1,057.88	256.31	5.127	
11,900.00	7,254.00	11,823.44	7,249.99	131.75	130.15	89.83	778.02	-4,740.27	1,314.20	1,052.56	261.64	5.023	
12,000.00	7,254.00	11,923.44	7,249.99	134.41	132.82	89.83	777.20	-4,840.27	1,314.21	1,047.23	266.98	4.923	
12,100.00	7,254.00	12,023.44	7,249.99	137.08	135.48	89.83	776.38	-4,940.27	1,314.22	1,041.90	272.32	4.826	
12,200.00	7,254.00	12,123.44	7,249.99	139.76	138.15	89.83	775.56	-5,040.26	1,314.23	1,036.57	277.66	4.733	
12,300.00	7,254.00	12,223.44	7,249.99	142.43	140.82	89.83	774.74	-5,140.26	1,314.24	1,031.23	283.01	4.644	
12,400.00	7,254.00	12,323.44	7,249.99	145.11	143.49	89.83	773.92	-5,240.26	1,314.25	1,025.89	288.36	4.558	
12,500.00	7,254.00	12,423.44	7,249.99	147.79	146.16	89.83	773.10	-5,340.25	1,314.26	1,020.55	293.72	4.475	
12,600.00	7,254.00	12,523.44	7,249.99	150.47	148.83	89.83	772.28	-5,440.25	1,314.27	1,015.20	299.07	4.394	
12,700.00	7,254.00	12,623.44	7,249.99	153.15	151.51	89.82	771.46	-5,540.25	1,314.28	1,009.85	304.44	4.317	
12,800.00	7,254.00	12,723.44	7,249.99	155.83	154.19	89.82	770.64	-5,640.24	1,314.29	1,004.49	309.80	4.242	
12,900.00	7,254.00	12,823.44	7,249.99	158.51	156.87	89.82	769.82	-5,740.24	1,314.30	999.14	315.17	4.170	
13,000.00	7,254.00	12,923.44	7,249.98	161.20	159.55	89.82	768.99	-5,840.24	1,314.31	993.78	320.54	4.100	
13,100.00	7,254.00	13,023.44	7,249.98	163.88	162.23	89.82	768.17	-5,940.23	1,314.32	988.41	325.91	4.033	
13,200.00	7,254.00	13,123.44	7,249.98	166.57	164.91	89.82	767.35	-6,040.23	1,314.33	983.05	331.28	3.967	
13,300.00	7,254.00	13,223.44	7,249.98	169.26	167.60	89.82	766.53	-6,140.23	1,314.34	977.68	336.66	3.904	
13,400.00	7,254.00	13,323.44	7,249.98	171.95	170.28	89.82	765.71	-6,240.22	1,314.35	972.32	342.04	3.843	
13,500.00	7,254.00	13,423.44	7,249.98	174.64	172.97	89.82	764.89	-6,340.22	1,314.36	966.95	347.42	3.783	
13,600.00	7,254.00	13,523.44	7,249.98	177.33	175.66	89.82	764.07	-6,440.22	1,314.37	961.57	352.80	3.726	
13,700.00	7,254.00	13,623.44	7,249.98	180.02	178.35	89.82	763.25	-6,540.21	1,314.38	956.20	358.18	3.670	
13,800.00	7,254.00	13,723.44	7,249.98	182.72	181.04	89.82	762.43	-6,640.21	1,314.39	950.82	363.57	3.615	
13,900.00	7,254.00	13,823.44	7,249.98	185.41	183.73	89.82	761.61	-6,740.21	1,314.40	945.44	368.96	3.562	
14,000.00	7,254.00	13,923.44	7,249.98	188.11	186.42	89.82	760.79	-6,840.20	1,314.41	940.07	374.35	3.511	
14,100.00	7,254.00	14,023.44	7,249.98	190.80	189.11	89.82	759.97	-6,940.20	1,314.42	934.68	379.74	3.461	
14,200.00	7,254.00	14,123.44	7,249.98	193.50	191.81	89.82	759.15	-7,040.20	1,314.43	929.30	385.13	3.413	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,300.00	7,254.00	14,223.44	7,249.98	196.19	194.50	89.82	758.33	-7,140.19	1,314.44	923.92	390.52	3.366			
14,400.00	7,254.00	14,323.44	7,249.98	198.89	197.20	89.82	757.51	-7,240.19	1,314.45	918.53	395.92	3.320			
14,500.00	7,254.00	14,423.44	7,249.98	201.59	199.89	89.82	756.69	-7,340.19	1,314.46	913.15	401.32	3.275			
14,600.00	7,254.00	14,523.44	7,249.98	204.29	202.59	89.82	755.87	-7,440.18	1,314.47	907.76	406.71	3.232			
14,700.00	7,254.00	14,623.44	7,249.98	206.99	205.29	89.82	755.05	-7,540.18	1,314.48	902.37	412.11	3.190			
14,800.00	7,254.00	14,723.44	7,249.98	209.69	207.98	89.82	754.23	-7,640.18	1,314.49	896.98	417.51	3.148			
14,900.00	7,254.00	14,823.44	7,249.98	212.39	210.68	89.82	753.41	-7,740.17	1,314.50	891.59	422.91	3.108			
15,000.00	7,254.00	14,923.44	7,249.98	215.09	213.38	89.82	752.59	-7,840.17	1,314.51	886.20	428.32	3.069			
15,100.00	7,254.00	15,023.44	7,249.98	217.79	216.08	89.82	751.77	-7,940.17	1,314.52	880.80	433.72	3.031			
15,200.00	7,254.00	15,123.44	7,249.98	220.50	218.78	89.82	750.95	-8,040.16	1,314.53	875.41	439.12	2.994			
15,300.00	7,254.00	15,223.44	7,249.98	223.20	221.48	89.82	750.13	-8,140.16	1,314.54	870.01	444.53	2.957			
15,400.00	7,254.00	15,323.44	7,249.98	225.90	224.18	89.82	749.31	-8,240.16	1,314.55	864.62	449.94	2.922			
15,400.08	7,254.00	15,323.53	7,249.98	225.90	224.19	89.82	749.31	-8,240.24	1,314.55	864.61	449.94	2.922			
15,500.00	7,254.00	15,419.98	7,249.98	228.61	226.79	89.82	748.57	-8,336.69	1,314.62	859.37	455.25	2.888			
15,600.00	7,254.00	15,478.21	7,250.00	231.31	228.36	89.83	748.25	-8,394.92	1,315.56	856.22	459.34	2.864			
15,602.20	7,254.00	15,478.21	7,250.00	231.37	228.36	89.83	748.25	-8,394.92	1,315.62	856.25	459.37	2.864 SF			

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Offset Wellbore Centre		Distance		Separation		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	0.00	0.00	0.01	32.79	0.00	32.79							
100.00	100.00	100.00	100.00	0.14	0.14	0.01	32.79	0.00	32.79	32.50	0.29	114.328				
200.00	200.00	200.00	200.00	0.50	0.50	0.01	32.79	0.00	32.79	31.78	1.00	32.665				
300.00	300.00	300.00	300.00	0.86	0.86	0.01	32.79	0.00	32.79	31.07	1.72	19.055				
400.00	400.00	400.00	400.00	1.22	1.22	0.01	32.79	0.00	32.79	30.35	2.44	13.450	CC, ES			
500.00	500.00	499.07	499.05	1.58	1.57	1.78	34.13	1.06	34.16	31.01	3.15	10.842				
600.00	600.00	597.94	597.78	1.94	1.93	6.34	38.15	4.24	38.45	34.58	3.86	9.953				
700.00	700.00	697.71	697.32	2.29	2.29	11.00	43.47	8.45	44.36	39.78	4.58	9.690				
800.00	799.98	797.39	796.77	2.64	2.65	-149.01	48.78	12.65	51.99	46.71	5.28	9.847				
900.00	899.84	896.81	895.97	2.97	3.02	-148.76	54.09	16.85	62.64	56.66	5.97	10.486				
930.56	930.31	927.13	926.21	3.07	3.13	-149.00	55.71	18.13	66.48	60.29	6.19	10.741				
1,000.00	999.53	995.97	994.89	3.31	3.39	-149.68	59.38	21.03	75.54	68.87	6.67	11.322				
1,100.00	1,099.20	1,095.11	1,093.80	3.66	3.75	-150.40	64.66	25.21	88.61	81.23	7.37	12.018				
1,200.00	1,198.88	1,194.25	1,192.71	4.02	4.12	-150.95	69.95	29.40	101.68	93.60	8.08	12.588				
1,300.00	1,298.56	1,293.38	1,291.62	4.38	4.49	-151.36	75.24	33.58	114.76	105.98	8.79	13.062				
1,400.00	1,398.23	1,392.52	1,390.53	4.75	4.86	-151.70	80.53	37.76	127.85	118.35	9.50	13.461				
1,500.00	1,497.91	1,491.66	1,489.43	5.12	5.22	-151.97	85.82	41.94	140.94	130.73	10.21	13.803				
1,600.00	1,597.58	1,590.80	1,588.34	5.49	5.59	-152.19	91.10	46.12	154.03	143.10	10.93	14.098				
1,700.00	1,697.26	1,689.94	1,687.25	5.86	5.96	-152.38	96.39	50.31	167.12	155.48	11.64	14.355				
1,800.00	1,796.94	1,789.07	1,786.16	6.23	6.33	-152.54	101.68	54.49	180.22	167.86	12.36	14.581				
1,900.00	1,896.61	1,888.21	1,885.07	6.61	6.70	-152.68	106.97	58.67	193.31	180.23	13.08	14.781				
2,000.00	1,996.29	1,987.35	1,983.97	6.99	7.07	-152.80	112.25	62.85	206.41	192.61	13.80	14.959				
2,100.00	2,095.97	2,086.49	2,082.88	7.37	7.44	-152.91	117.54	67.03	219.51	204.99	14.52	15.120				
2,200.00	2,195.64	2,185.62	2,181.79	7.75	7.81	-153.01	122.83	71.22	232.61	217.37	15.24	15.264				
2,300.00	2,295.32	2,284.76	2,280.70	8.12	8.18	-153.09	128.12	75.40	245.70	229.74	15.96	15.395				
2,400.00	2,394.99	2,383.90	2,379.61	8.51	8.55	-153.17	133.41	79.58	258.80	242.12	16.68	15.514				
2,500.00	2,494.67	2,483.04	2,478.52	8.89	8.92	-153.24	138.69	83.76	271.90	254.50	17.40	15.623				
2,600.00	2,594.35	2,582.17	2,577.42	9.27	9.29	-153.30	143.98	87.95	285.00	266.88	18.13	15.723				
2,700.00	2,694.02	2,681.31	2,676.33	9.65	9.66	-153.36	149.27	92.13	298.11	279.26	18.85	15.815				
2,800.00	2,793.70	2,780.45	2,775.24	10.03	10.03	-153.41	154.56	96.31	311.21	291.63	19.57	15.900				
2,900.00	2,893.38	2,879.59	2,874.15	10.41	10.40	-153.46	159.84	100.49	324.31	304.01	20.30	15.979				
3,000.00	2,993.05	2,978.73	2,973.06	10.80	10.77	-153.50	165.13	104.67	337.41	316.39	21.02	16.052				
3,100.00	3,092.73	3,077.86	3,071.97	11.18	11.14	-153.54	170.42	108.86	350.51	328.77	21.74	16.121				
3,200.00	3,192.41	3,177.00	3,170.87	11.56	11.51	-153.58	175.71	113.04	363.61	341.15	22.47	16.184				
3,300.00	3,292.08	3,276.14	3,269.78	11.94	11.88	-153.62	180.99	117.22	376.71	353.52	23.19	16.244				
3,400.00	3,391.76	3,375.28	3,368.69	12.33	12.25	-153.65	186.28	121.40	389.82	365.90	23.92	16.300				
3,500.00	3,491.43	3,474.41	3,467.60	12.71	12.62	-153.68	191.57	125.59	402.92	378.28	24.64	16.353				
3,600.00	3,591.11	3,573.55	3,566.51	13.09	12.99	-153.71	196.86	129.77	416.02	390.66	25.36	16.402				
3,700.00	3,690.79	3,672.69	3,665.41	13.48	13.36	-153.74	202.15	133.95	429.12	403.04	26.09	16.449				
3,800.00	3,790.46	3,771.83	3,764.32	13.86	13.73	-153.76	207.43	138.13	442.23	415.41	26.81	16.493				
3,900.00	3,890.14	3,870.97	3,863.23	14.25	14.10	-153.79	212.72	142.31	455.33	427.79	27.54	16.534				
4,000.00	3,989.82	3,970.10	3,962.14	14.63	14.48	-153.81	218.01	146.50	468.43	440.17	28.26	16.574				
4,100.00	4,089.49	4,069.24	4,061.05	15.01	14.85	-153.83	223.30	150.68	481.53	452.55	28.99	16.611				
4,200.00	4,189.17	4,168.38	4,159.96	15.40	15.22	-153.85	228.58	154.86	494.64	464.92	29.71	16.647				
4,300.00	4,288.84	4,267.52	4,258.86	15.78	15.59	-153.87	233.87	159.04	507.74	477.30	30.44	16.681				
4,400.00	4,388.52	4,366.65	4,357.77	16.17	15.96	-153.89	239.16	163.23	520.84	489.68	31.16	16.713				
4,500.00	4,488.20	4,465.79	4,456.68	16.55	16.33	-153.91	244.45	167.41	533.95	502.06	31.89	16.744				
4,600.00	4,587.87	4,564.93	4,555.59	16.94	16.70	-153.93	249.74	171.59	547.05	514.43	32.61	16.773				
4,700.00	4,687.55	4,664.07	4,654.50	17.32	17.07	-153.94	255.02	175.77	560.15	526.81	33.34	16.801				
4,800.00	4,787.23	4,763.20	4,753.41	17.71	17.44	-153.96	260.31	179.95	573.26	539.19	34.07	16.828				
4,900.00	4,886.90	4,862.34	4,852.31	18.09	17.81	-153.97	265.60	184.14	586.36	551.57	34.79	16.853				
5,000.00	4,986.58	4,961.48	4,951.22	18.48	18.18	-153.98	270.89	188.32	599.46	563.94	35.52	16.878				

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft			
Survey Program:		0-OWSG (Rev2) MWD			Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:		Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
5,100.00	5,086.26	5,060.62	5,050.13	18.86	18.55	-154.00	276.17	192.50	612.56	576.32	36.24	16.902					
5,200.00	5,185.93	5,159.76	5,149.04	19.25	18.92	-154.01	281.46	196.68	625.67	588.70	36.97	16.924					
5,300.00	5,285.61	5,258.89	5,247.95	19.63	19.29	-154.02	286.75	200.87	638.77	601.08	37.69	16.946					
5,400.00	5,385.28	5,358.03	5,346.85	20.02	19.66	-154.03	292.04	205.05	651.87	613.45	38.42	16.967					
5,500.00	5,484.96	5,457.17	5,445.76	20.40	20.03	-154.05	297.32	209.23	664.98	625.83	39.15	16.987					
5,600.00	5,584.64	5,556.31	5,544.67	20.79	20.40	-154.06	302.61	213.41	678.08	638.21	39.87	17.006					
5,700.00	5,684.31	5,655.44	5,643.58	21.17	20.77	-154.07	307.90	217.59	691.18	650.59	40.60	17.025					
5,800.00	5,783.99	5,754.58	5,742.49	21.56	21.14	-154.08	313.19	221.78	704.29	662.96	41.32	17.043					
5,900.00	5,883.67	5,853.72	5,841.40	21.94	21.51	-154.09	318.48	225.96	717.39	675.34	42.05	17.060					
6,000.00	5,983.34	5,952.86	5,940.30	22.33	21.89	-154.10	323.76	230.14	730.49	687.72	42.78	17.077					
6,100.00	6,083.02	6,052.00	6,039.21	22.71	22.26	-154.10	329.05	234.32	743.60	700.09	43.50	17.093					
6,200.00	6,182.69	6,151.13	6,138.12	23.10	22.63	-154.11	334.34	238.51	756.70	712.47	44.23	17.108					
6,300.00	6,282.37	6,250.27	6,237.03	23.48	23.00	-154.12	339.63	242.69	769.81	724.85	44.96	17.124					
6,400.00	6,382.05	6,349.41	6,335.94	23.87	23.37	-154.13	344.91	246.87	782.91	737.23	45.68	17.138					
6,500.00	6,481.72	6,448.55	6,434.84	24.25	23.74	-154.14	350.20	251.05	796.01	749.60	46.41	17.152					
6,600.00	6,581.40	6,548.01	6,534.00	24.64	24.15	-154.15	356.36	249.99	808.41	761.19	47.22	17.121					
6,688.27	6,669.38	6,670.65	6,654.38	24.98	24.45	-156.29	361.68	229.61	817.21	769.34	47.87	17.071					
6,700.00	6,681.08	6,684.00	6,667.12	25.02	24.49	-171.40	362.32	225.68	818.30	770.35	47.95	17.065					
6,750.00	6,730.87	6,739.67	6,719.16	25.21	24.62	137.19	364.93	206.16	823.08	774.81	48.27	17.052					
6,800.00	6,780.30	6,793.47	6,767.43	25.38	24.73	117.28	367.29	182.57	828.09	779.53	48.56	17.051					
6,850.00	6,828.99	6,845.54	6,811.86	25.54	24.83	108.02	369.42	155.52	833.32	784.48	48.84	17.062					
6,900.00	6,876.56	6,896.03	6,852.42	25.69	24.91	102.37	371.33	125.54	838.72	789.61	49.11	17.079					
6,950.00	6,922.66	6,945.08	6,899.15	25.83	24.99	98.32	373.01	93.11	844.25	794.88	49.37	17.099					
7,000.00	6,966.93	6,992.82	6,922.12	25.96	25.06	95.11	374.47	58.63	849.85	800.21	49.64	17.120					
7,050.00	7,009.04	7,039.37	6,951.41	26.08	25.16	92.44	375.72	22.49	855.46	805.54	49.92	17.136					
7,100.00	7,048.66	7,084.84	6,977.09	26.19	25.35	90.12	376.77	-15.01	861.02	810.80	50.23	17.143					
7,150.00	7,085.51	7,129.35	6,999.28	26.30	25.59	88.07	377.62	-53.57	866.47	815.91	50.56	17.137					
7,200.00	7,119.28	7,172.98	7,018.07	26.39	25.88	86.25	378.29	-92.93	871.73	820.80	50.94	17.114					
7,250.00	7,149.73	7,215.83	7,033.55	26.49	26.19	84.61	378.78	-132.87	876.75	825.39	51.36	17.070					
7,300.00	7,176.63	7,257.96	7,045.84	26.60	26.53	83.13	379.09	-173.16	881.45	829.60	51.84	17.002					
7,350.00	7,199.77	7,300.00	7,055.11	26.76	26.91	81.81	379.24	-214.15	885.78	833.38	52.40	16.904					
7,400.00	7,218.98	7,340.38	7,061.17	26.99	27.31	80.65	379.23	-254.07	889.68	836.66	53.02	16.779					
7,450.00	7,234.10	7,380.78	7,064.42	27.33	27.73	79.63	379.07	-294.33	893.10	839.38	53.72	16.625					
7,500.00	7,245.03	7,424.00	7,065.00	27.75	28.22	78.72	378.74	-337.54	895.96	841.42	54.54	16.427					
7,550.00	7,251.68	7,473.54	7,065.00	28.25	28.82	78.08	378.32	-387.08	897.82	842.26	55.55	16.161					
7,600.00	7,254.00	7,523.47	7,065.00	28.79	29.47	77.86	377.90	-437.00	898.47	841.77	56.70	15.845					
7,601.67	7,254.00	7,525.14	7,065.00	28.81	29.50	77.86	377.89	-438.67	898.47	841.73	56.74	15.834					
7,700.00	7,254.00	7,623.47	7,065.00	30.03	30.91	77.86	377.06	-537.00	898.46	839.13	59.33	15.143					
7,800.00	7,254.00	7,723.47	7,065.00	31.47	32.52	77.86	376.23	-637.00	898.46	836.15	62.31	14.419					
7,900.00	7,254.00	7,823.47	7,065.00	33.06	34.26	77.86	375.39	-736.99	898.45	832.86	65.59	13.699					
8,000.00	7,254.00	7,923.47	7,065.00	34.80	36.12	77.86	374.55	-836.99	898.44	829.32	69.12	12.998					
8,100.00	7,254.00	8,023.47	7,065.00	36.66	38.09	77.86	373.71	-936.99	898.43	825.56	72.87	12.329					
8,200.00	7,254.00	8,123.47	7,065.00	38.62	40.14	77.86	372.87	-1,036.98	898.43	821.61	76.81	11.696					
8,300.00	7,254.00	8,223.47	7,065.00	40.66	42.27	77.86	372.04	-1,136.98	898.42	817.50	80.92	11.103					
8,400.00	7,254.00	8,323.47	7,065.00	42.78	44.46	77.86	371.20	-1,236.98	898.41	813.26	85.16	10.550					
8,500.00	7,254.00	8,423.47	7,065.00	44.97	46.71	77.86	370.36	-1,336.97	898.40	808.89	89.51	10.037					
8,600.00	7,254.00	8,523.47	7,065.00	47.21	49.01	77.86	369.52	-1,436.97	898.40	804.43	93.97	9.561					
8,700.00	7,254.00	8,623.47	7,065.00	49.50	51.35	77.86	368.68	-1,536.97	898.39	799.88	98.51	9.119					
8,800.00	7,254.00	8,723.47	7,065.00	51.83	53.72	77.86	367.85	-1,636.96	898.38	795.25	103.13	8.711					
8,900.00	7,254.00	8,823.47	7,065.00	54.20	56.13	77.86	367.01	-1,736.96	898.37	790.55	107.82	8.332					
9,000.00	7,254.00	8,923.47	7,065.00	56.60	58.56	77.86	366.17	-1,836.95	898.37	785.80	112.56	7.981					
9,100.00	7,254.00	9,023.47	7,065.00	59.03	61.02	77.86	365.33	-1,936.95	898.36	781.00	117.36	7.655					

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:				0-OWSG (Rev2) MWD		Rule Assigned:							Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,200.00	7,254.00	9,123.47	7,065.00	61.48	63.50	77.86	364.49	-2,036.95	898.35	776.15	122.20	7.352		
9,300.00	7,254.00	9,223.47	7,065.00	63.95	66.00	77.85	363.66	-2,136.94	898.34	771.26	127.08	7.069		
9,400.00	7,254.00	9,323.47	7,065.00	66.44	68.51	77.85	362.82	-2,236.94	898.33	766.34	131.99	6.806		
9,500.00	7,254.00	9,423.47	7,065.00	68.96	71.04	77.85	361.98	-2,336.94	898.33	761.39	136.94	6.560		
9,600.00	7,254.00	9,523.47	7,065.00	71.48	73.59	77.85	361.14	-2,436.93	898.32	756.41	141.91	6.330		
9,700.00	7,254.00	9,623.47	7,065.00	74.02	76.14	77.85	360.30	-2,536.93	898.31	751.40	146.91	6.115		
9,800.00	7,254.00	9,723.47	7,065.00	76.57	78.71	77.85	359.47	-2,636.93	898.30	746.37	151.94	5.912		
9,900.00	7,254.00	9,823.47	7,065.00	79.14	81.29	77.85	358.63	-2,736.92	898.30	741.32	156.98	5.722		
10,000.00	7,254.00	9,923.47	7,065.00	81.71	83.88	77.85	357.79	-2,836.92	898.29	736.25	162.04	5.544		
10,100.00	7,254.00	10,023.47	7,065.00	84.29	86.47	77.85	356.95	-2,936.92	898.28	731.16	167.12	5.375		
10,200.00	7,254.00	10,123.47	7,065.00	86.88	89.07	77.85	356.11	-3,036.91	898.27	726.06	172.21	5.216		
10,300.00	7,254.00	10,223.47	7,065.00	89.48	91.68	77.85	355.28	-3,136.91	898.27	720.95	177.32	5.066		
10,400.00	7,254.00	10,323.47	7,065.00	92.09	94.30	77.85	354.44	-3,236.91	898.26	715.82	182.44	4.924		
10,500.00	7,254.00	10,423.47	7,065.00	94.70	96.92	77.85	353.60	-3,336.90	898.25	710.68	187.57	4.789		
10,600.00	7,254.00	10,523.47	7,065.00	97.32	99.55	77.85	352.76	-3,436.90	898.24	705.53	192.72	4.661		
10,700.00	7,254.00	10,623.47	7,065.00	99.95	102.18	77.85	351.92	-3,536.89	898.24	700.36	197.87	4.539		
10,800.00	7,254.00	10,723.47	7,065.00	102.58	104.81	77.85	351.09	-3,636.89	898.23	695.19	203.04	4.424		
10,900.00	7,254.00	10,823.47	7,065.00	105.21	107.46	77.85	350.25	-3,736.89	898.22	690.01	208.21	4.314		
11,000.00	7,254.00	10,923.47	7,065.00	107.85	110.10	77.85	349.41	-3,836.88	898.21	684.83	213.39	4.209		
11,100.00	7,254.00	11,023.47	7,065.00	110.49	112.75	77.85	348.57	-3,936.88	898.21	679.63	218.57	4.109		
11,200.00	7,254.00	11,123.47	7,065.00	113.14	115.40	77.85	347.73	-4,036.88	898.20	674.43	223.77	4.014		
11,300.00	7,254.00	11,223.47	7,065.00	115.79	118.06	77.85	346.90	-4,136.87	898.19	669.22	228.97	3.923		
11,400.00	7,254.00	11,323.47	7,065.00	118.44	120.71	77.85	346.06	-4,236.87	898.18	664.01	234.18	3.835		
11,500.00	7,254.00	11,423.47	7,065.00	121.09	123.37	77.85	345.22	-4,336.87	898.17	658.79	239.39	3.752		
11,600.00	7,254.00	11,523.47	7,065.00	123.75	126.04	77.85	344.38	-4,436.86	898.17	653.56	244.61	3.672		
11,700.00	7,254.00	11,623.47	7,065.00	126.41	128.70	77.85	343.54	-4,536.86	898.16	648.33	249.83	3.595		
11,800.00	7,254.00	11,723.47	7,065.00	129.08	131.37	77.85	342.71	-4,636.86	898.15	643.10	255.06	3.521		
11,900.00	7,254.00	11,823.47	7,065.00	131.75	134.04	77.85	341.87	-4,736.85	898.14	637.86	260.29	3.451		
12,000.00	7,254.00	11,923.47	7,065.00	134.41	136.71	77.85	341.03	-4,836.85	898.14	632.61	265.52	3.383		
12,100.00	7,254.00	12,023.47	7,065.00	137.08	139.39	77.85	340.19	-4,936.85	898.13	627.37	270.76	3.317		
12,200.00	7,254.00	12,123.47	7,065.00	139.76	142.06	77.85	339.35	-5,036.84	898.12	622.12	276.00	3.254		
12,300.00	7,254.00	12,223.47	7,065.00	142.43	144.74	77.85	338.52	-5,136.84	898.11	616.86	281.25	3.193		
12,400.00	7,254.00	12,323.47	7,065.00	145.11	147.42	77.85	337.68	-5,236.84	898.11	611.61	286.50	3.135		
12,500.00	7,254.00	12,423.47	7,065.00	147.79	150.10	77.85	336.84	-5,336.83	898.10	606.35	291.75	3.078		
12,600.00	7,254.00	12,523.47	7,065.00	150.47	152.78	77.85	336.00	-5,436.83	898.09	601.08	297.01	3.024		
12,700.00	7,254.00	12,623.47	7,065.00	153.15	155.47	77.85	335.16	-5,536.82	898.08	595.82	302.27	2.971		
12,800.00	7,254.00	12,723.47	7,065.00	155.83	158.15	77.85	334.33	-5,636.82	898.08	590.55	307.53	2.920		
12,900.00	7,254.00	12,823.47	7,065.00	158.51	160.84	77.85	333.49	-5,736.82	898.07	585.28	312.79	2.871		
13,000.00	7,254.00	12,923.47	7,065.00	161.20	163.53	77.85	332.65	-5,836.81	898.06	580.00	318.06	2.824		
13,100.00	7,254.00	13,023.47	7,065.00	163.88	166.21	77.85	331.81	-5,936.81	898.05	574.73	323.33	2.778		
13,200.00	7,254.00	13,123.47	7,065.00	166.57	168.90	77.85	330.97	-6,036.81	898.05	569.45	328.60	2.733		
13,300.00	7,254.00	13,223.47	7,065.00	169.26	171.59	77.85	330.14	-6,136.80	898.04	564.17	333.87	2.690		
13,400.00	7,254.00	13,323.47	7,065.00	171.95	174.29	77.85	329.30	-6,236.80	898.03	558.89	339.14	2.648		
13,500.00	7,254.00	13,423.47	7,065.00	174.64	176.98	77.85	328.46	-6,336.80	898.02	553.60	344.42	2.607		
13,600.00	7,254.00	13,523.47	7,065.00	177.33	179.67	77.85	327.62	-6,436.79	898.01	548.32	349.70	2.568		
13,700.00	7,254.00	13,623.47	7,065.00	180.02	182.37	77.85	326.78	-6,536.79	898.01	543.03	354.97	2.530		
13,800.00	7,254.00	13,723.47	7,065.00	182.72	185.06	77.85	325.95	-6,636.79	898.00	537.74	360.26	2.493		
13,900.00	7,254.00	13,823.47	7,065.00	185.41	187.76	77.85	325.11	-6,736.78	897.99	532.45	365.54	2.457		
14,000.00	7,254.00	13,923.47	7,065.00	188.11	190.45	77.85	324.27	-6,836.78	897.98	527.16	370.82	2.422		
14,100.00	7,254.00	14,023.47	7,065.00	190.80	193.15	77.85	323.43	-6,936.78	897.98	521.87	376.11	2.388		
14,200.00	7,254.00	14,123.47	7,065.00	193.50	195.85	77.85	322.59	-7,036.77	897.97	516.57	381.39	2.354		
14,300.00	7,254.00	14,223.47	7,065.00	196.19	198.55	77.85	321.76	-7,136.77	897.96	511.28	386.68	2.322		

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,400.00	7,254.00	14,323.47	7,065.00	198.89	201.25	77.85	320.92	-7,236.77	897.95	505.98	391.97	2.291		
14,500.00	7,254.00	14,423.47	7,065.00	201.59	203.95	77.85	320.08	-7,336.76	897.95	500.68	397.26	2.260		
14,600.00	7,254.00	14,523.47	7,065.00	204.29	206.65	77.85	319.24	-7,436.76	897.94	495.38	402.55	2.231		
14,700.00	7,254.00	14,623.47	7,065.00	206.99	209.35	77.85	318.40	-7,536.75	897.93	490.08	407.85	2.202		
14,800.00	7,254.00	14,723.47	7,065.00	209.69	212.05	77.85	317.57	-7,636.75	897.92	484.78	413.14	2.173		
14,900.00	7,254.00	14,823.47	7,065.00	212.39	214.75	77.85	316.73	-7,736.75	897.92	479.48	418.44	2.146		
15,000.00	7,254.00	14,923.47	7,065.00	215.09	217.45	77.85	315.89	-7,836.74	897.91	474.18	423.73	2.119		
15,100.00	7,254.00	15,023.47	7,065.00	217.79	220.16	77.85	315.05	-7,936.74	897.90	468.87	429.03	2.093		
15,200.00	7,254.00	15,123.47	7,065.00	220.50	222.86	77.85	314.21	-8,036.74	897.89	463.57	434.33	2.067		
15,300.00	7,254.00	15,223.47	7,065.00	223.20	225.56	77.85	313.38	-8,136.73	897.89	458.26	439.62	2.042		
15,400.00	7,254.00	15,323.47	7,065.00	225.90	228.27	77.85	312.54	-8,236.73	897.88	452.95	444.92	2.018		
15,500.00	7,254.00	15,423.47	7,065.00	228.61	230.97	77.85	311.70	-8,336.73	897.87	447.65	450.22	1.994		
15,568.08	7,254.00	15,491.55	7,065.00	230.45	232.81	77.85	311.13	-8,404.81	897.86	444.03	453.83	1.978		
15,600.00	7,254.00	15,495.74	7,065.00	231.31	232.93	77.85	311.09	-8,408.99	898.29	443.76	454.53	1.976 SF		
15,602.20	7,254.00	15,495.74	7,065.00	231.37	232.93	77.85	311.09	-8,408.99	898.35	443.79	454.55	1.976		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL #1														Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD												Rule Assigned:		Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis		Highside		Distance				Warning	
Measured Depth	Vertical	Measured Depth	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-37.39	40.08	-30.63	50.44	50.44	0.29	175.900				
100.00	100.00	100.00	100.00	0.14	0.14	-37.39	40.08	-30.63	50.44	50.16	1.00	50.257				
200.00	200.00	200.00	200.00	0.50	0.50	-37.39	40.08	-30.63	50.44	49.44	1.72	29.317				
300.00	300.00	300.00	300.00	0.86	0.86	-37.39	40.08	-30.63	50.44	48.72	2.44	20.694				
400.00	400.00	400.00	400.00	1.22	1.22	-37.39	40.08	-30.63	50.44	48.01	3.15	15.991				
500.00	500.00	500.00	500.00	1.58	1.58	-37.39	40.08	-30.63	50.44	47.29	3.87	13.030				
600.00	600.00	600.00	600.00	1.94	1.94	-37.39	40.08	-30.63	50.44	46.57	4.59	10.994 CC, ES				
700.00	700.00	700.00	700.00	2.29	2.29	-37.39	40.08	-30.63	50.44	45.86	5.29	9.849				
800.00	799.98	799.98	799.98	2.64	2.65	160.65	40.08	-30.63	52.09	46.80	5.98	9.542 SF				
900.00	899.84	899.84	899.84	2.97	3.01	162.36	40.08	-30.63	57.05	51.07	6.19	9.566				
930.56	930.31	930.31	930.31	3.07	3.12	163.02	40.08	-30.63	59.24	53.05	6.68	9.678				
1,000.00	999.53	999.53	999.53	3.31	3.37	164.46	40.08	-30.63	64.60	57.93	7.37	9.817				
1,100.00	1,099.20	1,099.20	1,099.20	3.66	3.73	166.17	40.08	-30.63	72.38	65.01	8.08	9.933				
1,200.00	1,198.88	1,198.88	1,198.88	4.02	4.08	167.54	40.08	-30.63	80.21	72.14	8.77	10.072				
1,300.00	1,298.56	1,297.47	1,297.46	4.38	4.44	168.83	40.46	-30.54	88.38	79.61	9.46	10.442				
1,400.00	1,398.23	1,394.46	1,394.39	4.75	4.78	170.98	43.62	-29.79	98.83	89.36	10.14	11.045				
1,500.00	1,497.91	1,490.66	1,490.38	5.12	5.13	173.73	49.91	-28.31	112.05	101.91	10.81	11.859				
1,600.00	1,597.58	1,585.88	1,585.11	5.49	5.47	176.72	59.22	-26.11	128.22	117.41	11.47	12.859				
1,700.00	1,697.26	1,679.92	1,678.31	5.86	5.81	179.67	71.42	-23.23	147.45	135.99	12.10	15.030				
1,800.00	1,796.94	1,772.60	1,769.71	6.23	6.16	-177.57	86.34	-19.70	169.80	157.70	12.72	15.346				
1,900.00	1,896.61	1,863.77	1,859.09	6.61	6.52	-175.07	103.83	-15.57	195.27	182.54	13.33	16.795				
2,000.00	1,996.29	1,953.28	1,946.24	6.99	6.89	-172.85	123.67	-10.89	223.82	210.49	13.91	18.360				
2,100.00	2,095.97	2,041.00	2,030.99	7.37	7.27	-170.90	145.69	-5.69	255.38	241.47	14.47	20.027				
2,200.00	2,195.64	2,126.84	2,113.21	7.75	7.66	-169.20	169.66	-0.02	289.87	275.40	15.02	21.784				
2,300.00	2,295.32	2,210.69	2,192.79	8.12	8.06	-167.72	195.39	6.05	327.19	312.17	15.55	23.622				
2,400.00	2,394.99	2,292.49	2,269.64	8.51	8.48	-166.43	222.66	12.49	367.25	351.70	16.06	25.531				
2,500.00	2,494.67	2,372.19	2,343.71	8.89	8.92	-165.30	251.27	19.25	409.92	393.87	16.55	27.504				
2,600.00	2,594.35	2,449.75	2,414.99	9.27	9.37	-164.30	281.02	26.28	455.12	438.57	17.02	29.536				
2,700.00	2,694.02	2,525.14	2,483.45	9.65	9.83	-163.43	311.74	33.53	502.72	485.70	17.50	31.574				
2,800.00	2,793.70	2,600.00	2,550.59	10.03	10.31	-162.64	343.96	41.14	552.63	535.13	17.92	33.748				
2,900.00	2,893.38	2,669.39	2,612.03	10.41	10.78	-161.97	375.35	48.56	604.73	586.81	18.34	35.919				
3,000.00	2,993.05	2,738.26	2,672.22	10.80	11.27	-161.36	407.92	56.25	658.93	640.59	18.68	38.291				
3,100.00	3,092.73	2,800.00	2,725.48	11.18	11.73	-160.85	438.31	63.43	715.16	696.48	19.15	40.372				
3,200.00	3,192.41	2,869.62	2,784.71	11.56	12.27	-160.32	473.91	71.83	773.24	754.09	19.54	42.646				
3,300.00	3,292.08	2,932.16	2,837.15	11.94	12.78	-159.88	507.07	79.67	833.16	813.63	20.02	44.703				
3,400.00	3,391.76	3,000.00	2,893.18	12.33	13.34	-159.43	544.30	88.46	894.84	874.82	20.27	47.272				
3,500.00	3,491.43	3,051.18	2,934.84	12.71	13.79	-159.12	573.23	95.29	958.08	937.81	20.50	49.905				
3,600.00	3,591.11	3,100.00	2,974.07	13.09	14.22	-158.83	601.50	101.97	1,022.95	1,002.46	21.02	51.828				
3,700.00	3,690.79	3,166.85	3,026.99	13.48	14.84	-158.46	641.26	111.36	1,089.24	1,068.22	21.56	53.632				
3,800.00	3,790.46	3,234.70	3,080.21	13.86	15.48	-158.11	682.22	121.03	1,156.37	1,134.81	22.20	55.114				
3,900.00	3,890.14	3,308.59	3,138.17	14.25	16.19	-157.78	726.83	131.57	1,223.55	1,201.35	22.85	56.499				
4,000.00	3,989.82	3,382.49	3,196.13	14.63	16.91	-157.48	771.43	142.10	1,290.75	1,267.90	23.50	57.798				
4,100.00	4,089.49	3,456.38	3,254.09	15.01	17.64	-157.20	816.04	152.64	1,357.96	1,334.47	24.15	59.017				
4,200.00	4,189.17	3,530.28	3,312.05	15.40	18.37	-156.96	860.65	163.18	1,425.19	1,401.05	24.81	60.163				
4,300.00	4,288.84	3,604.17	3,370.01	15.78	19.11	-156.73	905.26	173.71	1,492.44	1,467.63	25.47	61.239				
4,400.00	4,388.52	3,678.07	3,427.97	16.17	19.86	-156.53	949.87	184.25	1,559.69	1,534.22	26.13	62.254				
4,500.00	4,488.20	3,751.96	3,485.94	16.55	20.61	-156.34	994.48	194.78	1,626.96	1,600.82	26.80	63.211				
4,600.00	4,587.87	3,825.86	3,543.90	16.94	21.36	-156.17	1,039.09	205.32	1,694.23	1,667.43	27.47	64.115				
4,700.00	4,687.55	3,899.75	3,601.86	17.32	22.12	-156.01	1,083.69	215.86	1,761.51	1,734.04	28.15	64.969				
4,800.00	4,787.23	3,973.65	3,659.82	17.71	22.88	-155.86	1,128.30	226.39	1,828.80	1,800.65	28.83	65.777				
4,900.00	4,886.90	4,047.54	3,717.78	18.09	23.65	-155.72	1,172.91	236.93	1,896.10	1,867.27	29.51	66.543				
5,000.00	4,986.58	4,121.44	3,775.74	18.48	24.41	-155.60	1,217.52	247.46	1,963.40	1,933.89						

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	5,086.26	4,195.33	3,833.70	18.86	25.18	-155.48	1,262.13	258.00	2,030.70	2,000.52	30.19	67.269			
5,200.00	5,185.93	4,269.23	3,891.67	19.25	25.96	-155.36	1,306.74	268.53	2,098.01	2,067.14	30.87	67.957			
5,300.00	5,285.61	4,343.12	3,949.63	19.63	26.73	-155.26	1,351.35	279.07	2,165.33	2,133.77	31.56	68.612			
5,400.00	5,385.28	4,417.02	4,007.59	20.02	27.51	-155.16	1,395.95	289.61	2,232.65	2,200.40	32.25	69.235			
5,500.00	5,484.96	4,490.91	4,065.55	20.40	28.29	-155.07	1,440.56	300.14	2,299.97	2,267.03	32.94	69.827			
5,600.00	5,584.64	4,564.81	4,123.51	20.79	29.07	-154.98	1,485.17	310.68	2,367.29	2,333.66	33.63	70.391			
5,700.00	5,684.31	4,638.70	4,181.47	21.17	29.85	-154.90	1,529.78	321.21	2,434.62	2,400.29	34.32	70.929			
5,800.00	5,783.99	4,712.60	4,239.43	21.56	30.63	-154.82	1,574.39	331.75	2,501.95	2,466.93	35.02	71.442			
5,900.00	5,883.67	4,786.49	4,297.40	21.94	31.42	-154.74	1,619.00	342.28	2,569.28	2,533.56	35.72	71.932			
6,000.00	5,983.34	4,860.39	4,355.36	22.33	32.20	-154.67	1,663.61	352.82	2,636.62	2,600.20	36.42	72.399			
6,100.00	6,083.02	4,934.28	4,413.32	22.71	32.99	-154.61	1,708.21	363.36	2,703.95	2,666.83	37.12	72.846			
6,200.00	6,182.69	5,008.18	4,471.28	23.10	33.78	-154.54	1,752.82	373.89	2,771.29	2,733.47	37.82	73.274			
6,300.00	6,282.37	5,082.07	4,529.24	23.48	34.57	-154.48	1,797.43	384.43	2,838.63	2,800.11	38.52	73.683			
6,400.00	6,382.05	5,155.97	4,587.20	23.87	35.36	-154.43	1,842.04	394.96	2,905.97	2,866.74	39.23	74.075			
6,500.00	6,481.72	5,229.86	4,645.16	24.25	36.15	-154.37	1,886.65	405.50	2,973.32	2,933.38	39.94	74.450			
6,600.00	6,581.40	5,303.76	4,703.13	24.64	36.94	-154.32	1,931.26	416.04	3,040.66	3,000.02	40.65	74.810			
6,688.27	6,669.38	5,368.98	4,754.29	24.98	37.64	-154.27	1,970.63	425.34	3,100.11	3,058.83	41.27	75.115			
6,700.00	6,681.08	5,377.63	4,761.07	25.02	37.73	-170.03	1,975.86	426.57	3,108.02	3,066.67	41.35	75.156			
6,750.00	6,730.87	5,414.08	4,789.66	25.21	38.12	135.80	1,997.85	431.76	3,141.98	3,100.29	41.70	75.355			
6,800.00	6,780.30	5,449.61	4,817.53	25.38	38.51	113.15	2,019.30	436.83	3,176.14	3,134.13	42.02	75.595			
6,850.00	6,828.99	5,483.96	4,844.47	25.54	38.87	101.24	2,040.04	441.73	3,210.27	3,167.96	42.31	75.870			
6,900.00	6,876.56	5,516.86	4,870.28	25.69	39.23	93.06	2,059.90	446.42	3,244.16	3,201.57	42.59	76.175			
6,950.00	6,922.66	5,548.07	4,894.76	25.83	39.56	86.66	2,078.75	450.87	3,277.61	3,234.76	42.84	76.503			

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD Offset											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-50.22	25.50	-30.63	39.86					
100.00	100.00	100.00	100.00	0.14	0.14	-50.22	25.50	-30.63	39.86	39.57	0.29	138.976		
200.00	200.00	200.00	200.00	0.50	0.50	-50.22	25.50	-30.63	39.86	38.85	1.00	39.707		
300.00	300.00	300.00	300.00	0.86	0.86	-50.22	25.50	-30.63	39.86	38.13	1.72	23.163		
400.00	400.00	400.00	400.00	1.22	1.22	-50.22	25.50	-30.63	39.86	37.42	2.44	16.350		
500.00	500.00	500.00	500.00	1.58	1.58	-50.22	25.50	-30.63	39.86	36.70	3.15	12.634		
600.00	600.00	600.00	600.00	1.94	1.94	-50.22	25.50	-30.63	39.86	35.98	3.87	10.295		
700.00	700.00	700.00	700.00	2.29	2.29	-50.22	25.50	-30.63	39.86	35.27	4.59	8.686	CC, ES	
800.00	799.98	799.98	799.98	2.64	2.65	148.46	25.50	-30.63	41.33	36.04	5.29	7.816		
900.00	899.84	899.84	899.84	2.97	3.01	151.84	25.50	-30.63	45.88	39.90	5.98	7.673	SF	
930.56	930.31	930.31	930.31	3.07	3.12	153.12	25.50	-30.63	47.91	41.72	6.19	7.737		
1,000.00	999.53	999.53	999.53	3.31	3.37	155.85	25.50	-30.63	52.95	46.28	6.68	7.933		
1,100.00	1,099.20	1,099.20	1,099.20	3.66	3.73	158.97	25.50	-30.63	60.38	53.01	7.37	8.189		
1,200.00	1,198.88	1,198.88	1,198.88	4.02	4.08	161.40	25.50	-30.63	67.95	59.87	8.08	8.414		
1,300.00	1,298.56	1,298.56	1,298.56	4.38	4.44	163.34	25.50	-30.63	75.62	66.83	8.78	8.611		
1,400.00	1,398.23	1,397.29	1,397.29	4.75	4.79	165.11	25.88	-30.53	83.62	74.14	9.48	8.817		
1,500.00	1,497.91	1,494.58	1,494.52	5.12	5.14	167.81	29.03	-29.70	93.78	83.60	10.18	9.216		
1,600.00	1,597.58	1,591.09	1,590.80	5.49	5.49	171.16	35.30	-28.04	106.62	95.76	10.86	9.821		
1,700.00	1,697.26	1,686.61	1,685.83	5.86	5.83	174.72	44.60	-25.59	122.38	110.85	11.53	10.619		
1,800.00	1,796.94	1,780.95	1,779.32	6.23	6.18	178.18	56.78	-22.37	141.21	129.04	12.18	11.595		
1,900.00	1,896.61	1,873.93	1,871.01	6.61	6.53	-178.62	71.69	-18.44	163.20	150.39	12.81	12.737		
2,000.00	1,996.29	1,965.38	1,960.66	6.99	6.88	-175.75	89.16	-13.82	188.36	174.93	13.43	14.023		
2,100.00	2,095.97	2,055.17	2,048.07	7.37	7.25	-173.23	108.99	-8.59	216.64	202.61	14.03	15.440		
2,200.00	2,195.64	2,143.17	2,133.08	7.75	7.62	-171.04	130.99	-2.78	247.98	233.37	14.61	16.972		
2,300.00	2,295.32	2,229.27	2,215.53	8.12	8.01	-169.14	154.94	3.54	282.28	267.11	15.17	18.608		
2,400.00	2,394.99	2,313.38	2,295.32	8.51	8.42	-167.49	180.65	10.33	319.45	303.74	15.71	20.334		
2,500.00	2,494.67	2,400.00	2,376.65	8.89	8.85	-165.99	209.48	17.94	359.41	343.11	16.31	22.042		
2,600.00	2,594.35	2,475.35	2,446.63	9.27	9.26	-164.82	236.48	25.06	401.96	385.22	16.73	24.022		
2,700.00	2,694.02	2,553.13	2,518.07	9.65	9.71	-163.73	266.20	32.91	447.07	429.85	17.22	25.968		
2,800.00	2,793.70	2,628.72	2,586.68	10.03	10.17	-162.78	296.88	41.01	494.61	476.93	17.68	27.972		
2,900.00	2,893.38	2,700.00	2,650.59	10.41	10.62	-161.97	327.40	49.07	544.48	526.38	18.10	30.090		
3,000.00	2,993.05	2,773.35	2,715.51	10.80	11.11	-161.20	360.40	57.78	596.55	577.98	18.56	32.135		
3,100.00	3,092.73	2,842.39	2,775.80	11.18	11.60	-160.54	392.93	66.36	650.73	631.75	18.98	34.283		
3,200.00	3,192.41	2,900.00	2,825.48	11.56	12.02	-160.03	421.13	73.81	706.99	687.76	19.23	36.761		
3,300.00	3,292.08	2,974.04	2,888.44	11.94	12.59	-159.42	458.79	83.75	765.02	745.25	19.77	38.693		
3,400.00	3,391.76	3,036.72	2,940.94	12.33	13.10	-158.95	491.89	92.49	824.95	804.80	20.15	40.946		
3,500.00	3,491.43	3,100.00	2,993.18	12.71	13.62	-158.50	526.43	101.61	886.60	866.05	20.55	43.144		
3,600.00	3,591.11	3,155.98	3,038.71	13.09	14.10	-158.13	557.91	109.92	949.89	929.03	20.86	45.537		
3,700.00	3,690.79	3,222.10	3,091.81	13.48	14.69	-157.72	596.01	119.97	1,014.58	993.23	21.34	47.537		
3,800.00	3,790.46	3,297.93	3,152.60	13.86	15.38	-157.30	639.84	131.54	1,079.50	1,057.52	21.98	49.105		
3,900.00	3,890.14	3,373.77	3,213.39	14.25	16.08	-156.93	683.67	143.12	1,144.45	1,121.82	22.63	50.570		
4,000.00	3,989.82	3,449.60	3,274.18	14.63	16.79	-156.60	727.51	154.69	1,209.43	1,186.15	23.28	51.944		
4,100.00	4,089.49	3,525.44	3,334.98	15.01	17.50	-156.31	771.34	166.26	1,274.43	1,250.49	23.94	53.233		
4,200.00	4,189.17	3,601.27	3,395.77	15.40	18.23	-156.04	815.18	177.83	1,339.45	1,314.85	24.60	54.446		
4,300.00	4,288.84	3,677.11	3,456.56	15.78	18.96	-155.79	859.01	189.40	1,404.48	1,379.21	25.27	55.585		
4,400.00	4,388.52	3,752.95	3,517.35	16.17	19.70	-155.57	902.85	200.97	1,469.53	1,443.59	25.94	56.658		
4,500.00	4,488.20	3,828.78	3,578.15	16.55	20.44	-155.37	946.68	212.54	1,534.58	1,507.97	26.61	57.670		
4,600.00	4,587.87	3,904.62	3,638.94	16.94	21.18	-155.18	990.51	224.12	1,599.65	1,572.37	27.29	58.627		
4,700.00	4,687.55	3,980.45	3,699.73	17.32	21.93	-155.01	1,034.35	235.69	1,664.73	1,636.76	27.96	59.530		
4,800.00	4,787.23	4,056.29	3,760.52	17.71	22.69	-154.85	1,078.18	247.26	1,729.81	1,701.17	28.65	60.385		
4,900.00	4,886.90	4,132.12	3,821.31	18.09	23.45	-154.70	1,122.02	258.83	1,794.91	1,765.57	29.33	61.195		
5,000.00	4,986.58	4,207.96	3,882.11	18.48	24.21	-154.56	1,165.85	270.40	1,860.00	1,829.99	30.02	61.964		

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	5,086.26	4,283.80	3,942.90	18.86	24.97	-154.43	1,209.69	281.97	1,925.11	1,894.40	30.71	62.693			
5,200.00	5,185.93	4,359.63	4,003.69	19.25	25.73	-154.31	1,253.52	293.54	1,990.22	1,958.82	31.40	63.386			
5,300.00	5,285.61	4,435.47	4,064.48	19.63	26.50	-154.20	1,297.36	305.12	2,055.33	2,023.24	32.09	64.045			
5,400.00	5,385.28	4,511.30	4,125.28	20.02	27.27	-154.10	1,341.19	316.69	2,120.45	2,087.66	32.79	64.672			
5,500.00	5,484.96	4,587.14	4,186.07	20.40	28.04	-154.00	1,385.02	328.26	2,185.57	2,152.09	33.49	65.270			
5,600.00	5,584.64	4,662.97	4,246.86	20.79	28.82	-153.90	1,428.86	339.83	2,250.70	2,216.51	34.18	65.839			
5,700.00	5,684.31	4,738.81	4,307.65	21.17	29.59	-153.82	1,472.69	351.40	2,315.83	2,280.94	34.89	66.383			
5,800.00	5,783.99	4,814.65	4,368.45	21.56	30.37	-153.73	1,516.53	362.97	2,380.96	2,345.37	35.59	66.902			
5,900.00	5,883.67	4,890.48	4,429.24	21.94	31.15	-153.65	1,560.36	374.54	2,446.10	2,409.80	36.29	67.398			
6,000.00	5,983.34	4,966.32	4,490.03	22.33	31.93	-153.58	1,604.20	386.12	2,511.23	2,474.23	37.00	67.872			
6,100.00	6,083.02	5,042.15	4,550.82	22.71	32.71	-153.51	1,648.03	397.69	2,576.37	2,538.67	37.71	68.326			
6,200.00	6,182.69	5,117.99	4,611.61	23.10	33.49	-153.44	1,691.86	409.26	2,641.52	2,603.10	38.42	68.760			
6,300.00	6,282.37	5,193.82	4,672.41	23.48	34.28	-153.37	1,735.70	420.83	2,706.66	2,667.53	39.13	69.177			
6,400.00	6,382.05	5,269.66	4,733.20	23.87	35.06	-153.31	1,779.53	432.40	2,771.81	2,731.97	39.84	69.575			
6,500.00	6,481.72	5,345.50	4,793.99	24.25	35.85	-153.26	1,823.37	443.97	2,836.95	2,796.40	40.55	69.958			
6,600.00	6,581.40	5,421.33	4,854.78	24.64	36.63	-153.20	1,867.20	455.54	2,902.10	2,860.84	41.27	70.325			
6,688.27	6,669.38	5,488.27	4,908.44	24.98	37.33	-153.15	1,905.89	465.76	2,959.61	2,917.71	41.90	70.637			
6,700.00	6,681.08	5,497.15	4,915.56	25.02	37.42	-168.84	1,911.03	467.11	2,967.27	2,925.29	41.98	70.679			
6,750.00	6,730.87	5,534.53	4,945.53	25.21	37.81	137.25	1,932.63	472.82	3,000.19	2,957.87	42.33	70.883			
6,800.00	6,780.30	5,570.95	4,974.72	25.38	38.18	114.85	1,953.68	478.37	3,033.40	2,990.75	42.65	71.127			
6,850.00	6,828.99	5,606.13	5,002.92	25.54	38.55	103.14	1,974.02	483.74	3,066.68	3,023.73	42.95	71.408			
6,900.00	6,876.56	5,639.81	5,029.92	25.69	38.90	95.14	1,993.48	488.88	3,099.82	3,056.59	43.22	71.719			
6,950.00	6,922.66	5,671.72	5,055.50	25.83	39.23	88.87	2,011.93	493.75	3,132.62	3,089.15	43.48	72.056			
7,000.00	6,966.93	5,701.63	5,079.48	25.96	39.54	83.60	2,029.22	498.31	3,164.93	3,121.22	43.71	72.410			
7,050.00	7,009.04	5,729.30	5,101.66	26.08	39.83	79.02	2,045.21	502.54	3,196.55	3,152.63	43.92	72.773			
7,100.00	7,048.66	5,754.53	5,121.89	26.19	40.09	74.97	2,059.80	506.39	3,227.34	3,183.22	44.13	73.136			
7,150.00	7,085.51	5,777.13	5,140.00	26.30	40.33	71.35	2,072.86	509.83	3,257.16	3,212.83	44.32	73.486			

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft
Survey Program:		0-OWSG (Rev2) MWD						Rule Assigned:				Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-76.61	7.29	-30.63	31.48					
100.00	100.00	100.00	100.00	0.14	0.14	-76.61	7.29	-30.63	31.48	31.20	0.29	109.788		
200.00	200.00	200.00	200.00	0.50	0.50	-76.61	7.29	-30.63	31.48	30.48	1.00	31.368		
300.00	300.00	300.00	300.00	0.86	0.86	-76.61	7.29	-30.63	31.48	29.76	1.72	18.298		
400.00	400.00	400.00	400.00	1.22	1.22	-76.61	7.29	-30.63	31.48	29.05	2.44	12.916		
500.00	500.00	500.00	500.00	1.58	1.58	-76.61	7.29	-30.63	31.48	28.33	3.15	9.981		
600.00	600.00	600.00	600.00	1.94	1.94	-76.61	7.29	-30.63	31.48	27.61	3.87	8.132		
700.00	700.00	700.00	700.00	2.29	2.29	-76.61	7.29	-30.63	31.48	26.90	4.59	6.862	CC, ES	
800.00	799.98	799.98	799.98	2.64	2.65	123.41	7.29	-30.63	32.41	27.12	5.29	6.129		
900.00	899.84	899.84	899.84	2.97	3.01	130.41	7.29	-30.63	35.56	29.59	5.98	5.950	SF	
930.56	930.31	930.31	930.31	3.07	3.12	133.09	7.29	-30.63	37.10	30.90	6.19	5.992		
1,000.00	999.53	999.53	999.53	3.31	3.37	138.77	7.29	-30.63	41.12	34.44	6.68	6.160		
1,100.00	1,099.20	1,099.20	1,099.20	3.66	3.73	145.17	7.29	-30.63	47.47	40.09	7.38	6.435		
1,200.00	1,198.88	1,198.88	1,198.88	4.02	4.08	150.02	7.29	-30.63	54.27	46.19	8.08	6.717		
1,300.00	1,298.56	1,298.56	1,298.56	4.38	4.44	153.77	7.29	-30.63	61.37	52.58	8.79	6.985		
1,400.00	1,398.23	1,398.23	1,398.23	4.75	4.80	156.74	7.29	-30.63	68.68	59.18	9.49	7.234		
1,500.00	1,497.91	1,497.91	1,497.91	5.12	5.15	159.12	7.29	-30.63	76.13	65.93	10.20	7.462		
1,600.00	1,597.58	1,597.58	1,597.58	5.49	5.51	161.09	7.29	-30.63	83.69	72.78	10.91	7.669		
1,700.00	1,697.26	1,697.26	1,697.26	5.86	5.87	162.72	7.29	-30.63	91.34	79.71	11.62	7.858		
1,800.00	1,796.94	1,796.94	1,796.94	6.23	6.23	164.10	7.29	-30.63	99.05	86.71	12.34	8.029		
1,900.00	1,896.61	1,896.61	1,896.61	6.61	6.58	165.28	7.29	-30.63	106.80	93.75	13.05	8.185		
2,000.00	1,996.29	1,996.29	1,996.29	6.99	6.94	166.30	7.29	-30.63	114.60	100.84	13.76	8.327		
2,100.00	2,095.97	2,093.21	2,093.20	7.37	7.29	167.69	8.74	-30.19	123.50	109.04	14.46	8.543		
2,200.00	2,195.64	2,189.39	2,189.26	7.75	7.63	169.87	13.28	-28.82	134.84	119.70	15.14	8.908		
2,300.00	2,295.32	2,284.72	2,284.25	8.12	7.97	172.53	20.82	-26.54	148.82	133.02	15.80	9.418		
2,400.00	2,394.99	2,378.99	2,377.89	8.51	8.31	175.43	31.25	-23.39	165.62	149.17	16.45	10.070		
2,500.00	2,494.67	2,472.04	2,469.90	8.89	8.65	178.34	44.43	-19.41	185.39	168.31	17.07	10.858		
2,600.00	2,594.35	2,563.68	2,560.05	9.27	8.99	-178.86	60.20	-14.65	208.20	190.52	17.68	11.777		
2,700.00	2,694.02	2,653.76	2,648.10	9.65	9.34	-176.26	78.39	-9.15	234.09	215.83	18.26	12.820		
2,800.00	2,793.70	2,742.16	2,733.89	10.03	9.69	-173.89	98.80	-2.99	263.03	244.21	18.82	13.978		
2,900.00	2,893.38	2,828.75	2,817.24	10.41	10.05	-171.76	121.25	3.79	294.97	275.62	19.35	15.242		
3,000.00	2,993.05	2,913.44	2,898.04	10.80	10.42	-169.86	145.52	11.12	329.84	309.97	19.86	16.605		
3,100.00	3,092.73	3,000.00	2,979.82	11.18	10.81	-168.10	172.68	19.32	367.55	347.13	20.43	17.995		
3,200.00	3,192.41	3,076.81	3,051.63	11.56	11.19	-166.69	198.75	27.20	407.95	387.14	20.82	19.596		
3,300.00	3,292.08	3,155.38	3,124.31	11.94	11.59	-165.37	227.32	35.83	451.00	429.73	21.26	21.209		
3,400.00	3,391.76	3,231.81	3,194.20	12.33	12.00	-164.20	256.93	44.77	496.55	474.86	21.69	22.894		
3,500.00	3,491.43	3,300.00	3,255.84	12.71	12.39	-163.24	284.84	53.20	544.55	522.57	21.98	24.778		
3,600.00	3,591.11	3,378.23	3,325.68	13.09	12.86	-162.24	318.59	63.39	594.76	572.28	22.48	26.454		
3,700.00	3,690.79	3,448.22	3,387.32	13.48	13.30	-161.41	350.31	72.97	647.20	624.35	22.85	28.319		
3,800.00	3,790.46	3,516.07	3,446.29	13.86	13.75	-160.67	382.43	82.68	701.73	678.52	23.21	30.236		
3,900.00	3,890.14	3,581.81	3,502.65	14.25	14.21	-160.00	414.83	92.46	758.24	734.69	23.55	32.198		
4,000.00	3,989.82	3,645.47	3,556.47	14.63	14.67	-159.40	447.36	102.29	816.64	792.76	23.88	34.203		
4,100.00	4,089.49	3,700.00	3,601.97	15.01	15.08	-158.92	476.14	110.98	876.88	852.81	24.06	36.440		
4,200.00	4,189.17	3,766.70	3,656.83	15.40	15.60	-158.37	512.46	121.95	938.75	914.25	24.49	38.328		
4,300.00	4,288.84	3,824.36	3,703.53	15.78	16.07	-157.92	544.83	131.73	1,002.27	977.49	24.78	40.442		
4,400.00	4,388.52	3,896.18	3,761.11	16.17	16.67	-157.40	585.93	144.14	1,066.89	1,041.56	25.34	42.111		
4,500.00	4,488.20	3,972.10	3,821.95	16.55	17.32	-156.92	629.39	157.26	1,131.59	1,105.63	25.97	43.580		
4,600.00	4,587.87	4,048.01	3,882.80	16.94	17.99	-156.49	672.84	170.39	1,196.34	1,169.74	26.60	44.972		
4,700.00	4,687.55	4,123.93	3,943.65	17.32	18.66	-156.10	716.30	183.52	1,261.12	1,233.87	27.24	46.291		
4,800.00	4,787.23	4,199.84	4,004.49	17.71	19.35	-155.75	759.76	196.64	1,325.93	1,298.04	27.89	47.542		
4,900.00	4,886.90	4,275.76	4,065.34	18.09	20.04	-155.43	803.21	209.77	1,390.76	1,362.22	28.54	48.727		
5,000.00	4,986.58	4,351.67	4,126.19	18.48	20.75	-155.14	846.67	222.89	1,455.62	1,426.42	29.20	49.852		

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



## Anticollision Report



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

**Offset Design:** SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL #1 **Offset Site Error:** 0.00 usft

**Survey Program:** 0-OWSG (Rev2) MWD **Offset Well Error:** 0.00 usft

Survey Program: Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,086.26	4,427.59	4,187.03	18.86	21.46	-154.87	890.13	236.02	1,520.50	1,490.64	29.86	50.923	
5,200.00	5,185.93	4,503.50	4,247.88	19.25	22.17	-154.63	933.58	249.14	1,585.40	1,554.87	30.52	51.941	
5,300.00	5,285.61	4,579.42	4,308.73	19.63	22.90	-154.41	977.04	262.27	1,650.31	1,619.12	31.19	52.909	
5,400.00	5,385.28	4,655.33	4,369.57	20.02	23.63	-154.20	1,020.50	275.39	1,715.24	1,683.37	31.86	53.831	
5,500.00	5,484.96	4,731.25	4,430.42	20.40	24.36	-154.01	1,063.96	288.52	1,780.17	1,747.63	32.54	54.710	
5,600.00	5,584.64	4,807.16	4,491.27	20.79	25.10	-153.83	1,107.41	301.64	1,845.12	1,811.91	33.22	55.549	
5,700.00	5,684.31	4,883.08	4,552.11	21.17	25.84	-153.66	1,150.87	314.77	1,910.08	1,876.18	33.90	56.350	
5,800.00	5,783.99	4,958.99	4,612.96	21.56	26.59	-153.50	1,194.33	327.90	1,975.05	1,940.47	34.58	57.114	
5,900.00	5,883.67	5,034.91	4,673.81	21.94	27.34	-153.36	1,237.78	341.02	2,040.02	2,004.75	35.27	57.845	
6,000.00	5,983.34	5,110.82	4,734.65	22.33	28.09	-153.22	1,281.24	354.15	2,105.00	2,069.05	35.96	58.545	
6,100.00	6,083.02	5,186.74	4,795.50	22.71	28.85	-153.09	1,324.70	367.27	2,169.99	2,133.35	36.65	59.214	
6,200.00	6,182.69	5,262.65	4,856.35	23.10	29.61	-152.97	1,368.15	380.40	2,234.99	2,197.65	37.34	59.854	
6,300.00	6,282.37	5,338.57	4,917.19	23.48	30.37	-152.86	1,411.61	393.52	2,299.99	2,261.95	38.04	60.469	
6,400.00	6,382.05	5,414.48	4,978.04	23.87	31.13	-152.75	1,455.07	406.65	2,364.99	2,326.26	38.73	61.058	
6,500.00	6,481.72	5,490.40	5,038.89	24.25	31.90	-152.65	1,498.53	419.77	2,430.00	2,390.57	39.43	61.623	
6,600.00	6,581.40	5,566.31	5,099.73	24.64	32.67	-152.55	1,541.98	432.90	2,495.02	2,454.88	40.14	62.165	
6,688.27	6,669.38	5,633.32	5,153.44	24.98	33.35	-152.47	1,580.34	444.48	2,552.40	2,511.65	40.76	62.626	
6,700.00	6,681.08	5,642.21	5,160.56	25.02	33.44	-168.15	1,585.43	446.02	2,560.05	2,519.21	40.84	62.687	
6,750.00	6,730.87	5,679.56	5,190.50	25.21	33.82	137.99	1,606.81	452.48	2,592.94	2,551.76	41.18	62.973	
6,800.00	6,780.30	5,715.87	5,219.60	25.38	34.19	115.63	1,627.59	458.76	2,626.16	2,584.67	41.49	63.298	
6,850.00	6,828.99	5,750.85	5,247.64	25.54	34.54	103.97	1,647.62	464.81	2,659.50	2,617.72	41.78	63.657	
6,900.00	6,876.56	5,784.24	5,274.40	25.69	34.88	95.99	1,666.73	470.58	2,692.76	2,650.72	42.04	64.046	
6,950.00	6,922.66	5,815.78	5,299.68	25.83	35.20	89.73	1,684.79	476.03	2,725.77	2,683.48	42.29	64.458	
7,000.00	6,966.93	5,845.24	5,323.29	25.96	35.50	84.45	1,701.65	481.12	2,758.35	2,715.84	42.51	64.887	
7,050.00	7,009.04	5,872.38	5,345.05	26.08	35.78	79.85	1,717.19	485.82	2,790.33	2,747.62	42.71	65.324	
7,100.00	7,048.66	5,897.01	5,364.79	26.19	36.03	75.75	1,731.29	490.08	2,821.58	2,778.68	42.91	65.762	
7,150.00	7,085.51	5,918.94	5,382.37	26.30	36.26	72.06	1,743.84	493.87	2,851.95	2,808.86	43.09	66.188	
7,200.00	7,119.28	5,937.99	5,397.64	26.39	36.45	68.73	1,754.75	497.16	2,881.30	2,838.03	43.27	66.591	
7,250.00	7,149.73	5,954.03	5,410.49	26.49	36.62	65.70	1,763.93	499.93	2,909.51	2,866.06	43.45	66.960	
7,300.00	7,176.63	5,966.93	5,420.83	26.60	36.75	62.95	1,771.31	502.16	2,936.43	2,892.79	43.64	67.282	
7,350.00	7,199.77	5,976.59	5,428.58	26.76	36.85	60.46	1,776.84	503.84	2,961.96	2,918.11	43.85	67.548	
7,400.00	7,218.98	5,982.95	5,433.67	26.99	36.91	58.19	1,780.48	504.93	2,985.95	2,941.88	44.07	67.749	
7,450.00	7,234.10	5,985.94	5,436.07	27.33	36.94	56.15	1,782.20	505.45	3,008.30	2,963.98	44.32	67.879	
7,500.00	7,245.03	5,985.56	5,435.76	27.75	36.94	54.30	1,781.97	505.39	3,028.88	2,984.30	44.58	67.937	
7,550.00	7,251.68	5,981.79	5,432.74	28.25	36.90	52.65	1,779.82	504.73	3,047.56	3,002.69	44.87	67.922	
7,600.00	7,254.00	5,974.68	5,427.04	28.79	36.83	51.19	1,775.75	503.50	3,064.24	3,019.07	45.17	67.838	
7,601.67	7,254.00	5,974.38	5,426.81	28.81	36.83	51.15	1,775.58	503.45	3,064.76	3,019.58	45.18	67.835	
7,700.00	7,254.00	5,956.92	5,412.81	30.03	36.65	50.81	1,765.58	500.43	3,096.71	3,050.85	45.86	67.521	
7,800.00	7,254.00	5,939.15	5,398.57	31.47	36.46	50.47	1,755.41	497.36	3,131.95	3,085.27	46.68	67.093	
7,900.00	7,254.00	5,921.39	5,384.33	33.06	36.28	50.12	1,745.24	494.29	3,169.85	3,122.25	47.59	66.601	
8,000.00	7,254.00	5,903.62	5,370.09	34.80	36.10	49.78	1,735.07	491.22	3,210.31	3,161.74	48.58	66.086	
8,100.00	7,254.00	5,885.86	5,355.85	36.66	35.92	49.44	1,724.90	488.15	3,253.26	3,203.65	49.61	65.576	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: Reference			0-OWSG (Rev2) MWD Offset				Semi Major Axis Reference				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)	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	-103.38	-7.29	-30.63	31.48						
100.00	100.00	100.00	100.00	0.14	0.14	-103.38	-7.29	-30.63	31.48	31.20	0.29	109.785			
200.00	200.00	200.00	200.00	0.50	0.50	-103.38	-7.29	-30.63	31.48	30.48	1.00	31.367			
300.00	300.00	300.00	300.00	0.86	0.86	-103.38	-7.29	-30.63	31.48	29.76	1.72	18.297			
400.00	400.00	400.00	400.00	1.22	1.22	-103.38	-7.29	-30.63	31.48	29.05	2.44	12.916			
500.00	500.00	500.00	500.00	1.58	1.58	-103.38	-7.29	-30.63	31.48	28.33	3.15	9.980			
600.00	600.00	600.00	600.00	1.94	1.94	-103.38	-7.29	-30.63	31.48	27.61	3.87	8.132			
700.00	700.00	700.00	700.00	2.29	2.29	-103.38	-7.29	-30.63	31.48	26.90	4.59	6.862	CC		
800.00	799.98	799.98	799.98	2.64	2.65	97.16	-7.29	-30.63	31.65	26.37	5.29	5.986	ES		
900.00	899.84	899.84	899.84	2.97	3.01	106.25	-7.29	-30.63	32.72	26.74	5.98	5.474			
930.56	930.31	930.31	930.31	3.07	3.12	110.01	-7.29	-30.63	33.44	27.25	6.19	5.402			
1,000.00	999.53	999.53	999.53	3.31	3.37	118.43	-7.29	-30.63	35.74	29.06	6.68	5.354	SF		
1,100.00	1,099.20	1,099.20	1,099.20	3.66	3.73	128.54	-7.29	-30.63	40.20	32.82	7.38	5.448			
1,200.00	1,198.88	1,198.88	1,198.88	4.02	4.08	136.44	-7.29	-30.63	45.65	37.57	8.09	5.647			
1,300.00	1,298.56	1,298.56	1,298.56	4.38	4.44	142.57	-7.29	-30.63	51.78	42.99	8.79	5.890			
1,400.00	1,398.23	1,398.23	1,398.23	4.75	4.80	147.37	-7.29	-30.63	58.38	48.88	9.50	6.145			
1,500.00	1,497.91	1,497.91	1,497.91	5.12	5.15	151.17	-7.29	-30.63	65.30	55.09	10.21	6.396			
1,600.00	1,597.58	1,597.58	1,597.58	5.49	5.51	154.24	-7.29	-30.63	72.45	61.53	10.92	6.635			
1,700.00	1,697.26	1,697.26	1,697.26	5.86	5.87	156.75	-7.29	-30.63	79.77	68.14	11.63	6.858			
1,800.00	1,796.94	1,796.94	1,796.94	6.23	6.23	158.83	-7.29	-30.63	87.22	74.88	12.34	7.066			
1,900.00	1,896.61	1,896.61	1,896.61	6.61	6.58	160.59	-7.29	-30.63	94.77	81.71	13.06	7.258			
2,000.00	1,996.29	1,996.29	1,996.29	6.99	6.94	162.08	-7.29	-30.63	102.39	88.62	13.77	7.436			
2,100.00	2,095.97	2,095.97	2,095.97	7.37	7.30	163.37	-7.29	-30.63	110.06	95.58	14.48	7.599			
2,200.00	2,195.64	2,193.26	2,193.24	7.75	7.65	165.04	-5.85	-30.13	118.75	103.58	15.18	7.824			
2,300.00	2,295.32	2,289.82	2,289.68	8.12	7.99	167.60	-1.35	-28.55	129.72	113.86	15.86	8.179			
2,400.00	2,394.99	2,385.53	2,385.05	8.51	8.33	170.69	6.13	-25.93	143.20	126.68	16.53	8.666			
2,500.00	2,494.67	2,480.19	2,479.08	8.89	8.67	174.02	16.49	-22.31	159.46	142.29	17.17	9.286			
2,600.00	2,594.35	2,573.62	2,571.47	9.27	9.01	177.35	29.58	-17.73	178.67	160.87	17.80	10.038			
2,700.00	2,694.02	2,665.64	2,661.98	9.65	9.35	-179.46	45.25	-12.24	200.95	182.54	18.40	10.918			
2,800.00	2,793.70	2,756.11	2,750.39	10.03	9.70	-176.51	63.32	-5.92	226.34	207.35	18.99	11.922			
2,900.00	2,893.38	2,844.88	2,836.52	10.41	10.05	-173.83	83.60	1.18	254.83	235.29	19.54	13.040			
3,000.00	2,993.05	2,931.84	2,920.20	10.80	10.41	-171.44	105.91	8.99	286.38	266.31	20.07	14.266			
3,100.00	3,092.73	3,016.89	3,001.32	11.18	10.78	-169.32	130.03	17.43	320.90	300.32	20.58	15.592			
3,200.00	3,192.41	3,100.00	3,079.82	11.56	11.16	-167.45	155.78	26.44	358.30	337.23	21.07	17.008			
3,300.00	3,292.08	3,180.93	3,155.46	11.94	11.55	-165.79	182.92	35.94	398.46	376.93	21.53	18.510			
3,400.00	3,391.76	3,259.81	3,228.38	12.33	11.95	-164.34	211.30	45.87	441.28	419.31	21.97	20.089			
3,500.00	3,491.43	3,336.55	3,298.50	12.71	12.37	-163.05	240.71	56.17	486.65	464.26	22.39	21.739			
3,600.00	3,591.11	3,411.12	3,365.83	13.09	12.79	-161.91	270.99	66.76	534.44	511.66	22.78	23.457			
3,700.00	3,690.79	3,483.52	3,430.37	13.48	13.22	-160.90	301.96	77.60	584.56	561.39	23.17	25.234			
3,800.00	3,790.46	3,553.77	3,492.17	13.86	13.66	-159.99	333.46	88.63	636.89	613.36	23.53	27.068			
3,900.00	3,890.14	3,621.86	3,551.28	14.25	14.11	-159.19	365.36	99.79	691.32	667.44	23.88	28.953			
4,000.00	3,989.82	3,687.82	3,607.77	14.63	14.57	-158.46	397.52	111.05	747.75	723.54	24.21	30.887			
4,100.00	4,089.49	3,751.69	3,661.70	15.01	15.03	-157.81	429.81	122.35	806.09	781.56	24.53	32.863			
4,200.00	4,189.17	3,813.51	3,713.15	15.40	15.49	-157.22	462.15	133.66	866.24	841.40	24.83	34.881			
4,300.00	4,288.84	3,887.10	3,773.76	15.78	16.06	-156.58	501.55	147.46	927.68	902.30	25.37	36.560			
4,400.00	4,388.52	3,965.49	3,838.29	16.17	16.69	-155.98	543.56	162.16	989.25	963.24	26.01	38.033			
4,500.00	4,488.20	4,043.88	3,902.82	16.55	17.34	-155.45	585.57	176.86	1,050.89	1,024.23	26.65	39.429			
4,600.00	4,587.87	4,122.27	3,967.35	16.94	17.99	-154.97	627.58	191.56	1,112.57	1,085.27	27.30	40.753			
4,700.00	4,687.55	4,200.66	4,031.88	17.32	18.65	-154.55	669.59	206.27	1,174.30	1,146.34	27.95	42.009			
4,800.00	4,787.23	4,279.06	4,096.41	17.71	19.33	-154.17	711.60	220.97	1,236.06	1,207.45	28.61	43.199			
4,900.00	4,886.90	4,357.45	4,160.94	18.09	20.02	-153.82	753.61	235.67	1,297.85	1,268.58	29.28	44.331			
5,000.00	4,986.58	4,435.84	4,225.47	18.48	20.71	-153.51	795.62	250.38	1,359.67	1,329.73	29.94	45.407			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL #1												Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD Reference Offset									Rule Assigned:			Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,086.26	4,514.23	4,290.00	18.86	21.41	-153.22	837.63	265.08	1,421.52	1,390.90	30.62	46.431		
5,200.00	5,185.93	4,592.62	4,354.53	19.25	22.12	-152.96	879.64	279.78	1,483.38	1,452.09	31.29	47.406		
5,300.00	5,285.61	4,671.01	4,419.06	19.63	22.83	-152.71	921.65	294.48	1,545.26	1,513.29	31.97	48.335		
5,400.00	5,385.28	4,749.40	4,483.59	20.02	23.55	-152.49	963.66	309.19	1,607.16	1,574.51	32.65	49.221		
5,500.00	5,484.96	4,827.79	4,548.12	20.40	24.28	-152.28	1,005.67	323.89	1,669.07	1,635.73	33.34	50.066		
5,600.00	5,584.64	4,906.18	4,612.65	20.79	25.00	-152.09	1,047.68	338.59	1,731.00	1,696.97	34.03	50.874		
5,700.00	5,684.31	4,984.57	4,677.18	21.17	25.74	-151.91	1,089.69	353.29	1,792.93	1,758.22	34.72	51.645		
5,800.00	5,783.99	5,062.97	4,741.71	21.56	26.47	-151.74	1,131.70	368.00	1,854.88	1,819.47	35.41	52.383		
5,900.00	5,883.67	5,141.36	4,806.24	21.94	27.21	-151.58	1,173.71	382.70	1,916.83	1,880.73	36.11	53.089		
6,000.00	5,983.34	5,219.75	4,870.77	22.33	27.96	-151.44	1,215.72	397.40	1,978.80	1,941.99	36.80	53.766		
6,100.00	6,083.02	5,298.14	4,935.30	22.71	28.70	-151.30	1,257.73	412.11	2,040.77	2,003.26	37.50	54.414		
6,200.00	6,182.69	5,376.53	4,999.83	23.10	29.45	-151.17	1,299.74	426.81	2,102.75	2,064.54	38.21	55.035		
6,300.00	6,282.37	5,454.92	5,064.36	23.48	30.21	-151.05	1,341.75	441.51	2,164.73	2,125.82	38.91	55.631		
6,400.00	6,382.05	5,533.31	5,128.89	23.87	30.96	-150.93	1,383.76	456.21	2,226.72	2,187.10	39.62	56.203		
6,500.00	6,481.72	5,611.70	5,193.42	24.25	31.72	-150.82	1,425.77	470.92	2,288.71	2,248.39	40.33	56.753		
6,600.00	6,581.40	5,690.09	5,257.95	24.64	32.47	-150.72	1,467.78	485.62	2,350.71	2,309.68	41.04	57.281		
6,688.27	6,669.38	5,759.29	5,314.91	24.98	33.15	-150.63	1,504.86	498.60	2,405.44	2,363.78	41.67	57.730		
6,700.00	6,681.08	5,768.46	5,322.46	25.02	33.24	-166.23	1,509.78	500.32	2,412.74	2,370.99	41.75	57.789		
6,750.00	6,730.87	5,807.01	5,354.19	25.21	33.61	140.24	1,530.43	507.55	2,444.22	2,402.13	42.09	58.070		
6,800.00	6,780.30	5,844.43	5,385.00	25.38	33.97	118.20	1,550.49	514.57	2,476.17	2,433.77	42.41	58.392		
6,850.00	6,828.99	5,880.45	5,414.65	25.54	34.32	106.81	1,569.79	521.32	2,508.40	2,465.70	42.70	58.750		
6,900.00	6,876.56	5,914.79	5,442.92	25.69	34.66	99.06	1,588.20	527.77	2,540.72	2,497.76	42.96	59.139		
6,950.00	6,922.66	5,947.19	5,469.59	25.83	34.98	92.96	1,605.56	533.84	2,572.95	2,529.75	43.20	59.554		
7,000.00	6,966.93	5,977.41	5,494.46	25.96	35.27	87.80	1,621.75	539.51	2,604.94	2,561.52	43.42	59.989		
7,050.00	7,009.04	6,005.20	5,517.34	26.08	35.54	83.24	1,636.64	544.72	2,636.54	2,592.91	43.62	60.437		
7,100.00	7,048.66	6,030.36	5,538.05	26.19	35.79	79.14	1,650.13	549.44	2,667.59	2,623.78	43.81	60.888		
7,150.00	7,085.51	6,052.71	5,556.45	26.30	36.01	75.40	1,662.10	553.63	2,697.97	2,653.98	43.99	61.334		
7,200.00	7,119.28	6,072.06	5,572.38	26.39	36.20	71.98	1,672.48	557.26	2,727.54	2,683.38	44.16	61.762		
7,250.00	7,149.73	6,088.28	5,585.73	26.49	36.36	68.82	1,681.17	560.30	2,756.17	2,711.83	44.34	62.163		
7,300.00	7,176.63	6,101.23	5,596.39	26.60	36.48	65.92	1,688.11	562.73	2,783.72	2,739.20	44.52	62.526		
7,350.00	7,199.77	6,110.83	5,604.29	26.76	36.58	63.24	1,693.25	564.53	2,810.08	2,765.36	44.72	62.840		
7,400.00	7,218.98	6,116.99	5,609.36	26.99	36.64	60.78	1,696.55	565.69	2,835.11	2,790.17	44.93	63.098		
7,450.00	7,234.10	6,119.67	5,611.57	27.33	36.66	58.52	1,697.99	566.19	2,858.67	2,813.50	45.16	63.294		
7,500.00	7,245.03	6,118.85	5,610.90	27.75	36.65	56.46	1,697.55	566.04	2,880.64	2,835.22	45.42	63.426		
7,550.00	7,251.68	6,114.54	5,607.35	28.25	36.61	54.59	1,695.24	565.23	2,900.89	2,855.20	45.69	63.494		
7,600.00	7,254.00	6,106.77	5,600.95	28.79	36.54	52.91	1,691.08	563.77	2,919.27	2,873.30	45.97	63.499		
7,601.67	7,254.00	6,106.45	5,600.69	28.81	36.53	52.86	1,690.90	563.71	2,919.85	2,873.87	45.98	63.499		
7,700.00	7,254.00	6,087.57	5,585.14	30.03	36.35	52.47	1,680.79	560.17	2,955.35	2,908.72	46.63	63.377		
7,800.00	7,254.00	6,068.37	5,569.34	31.47	36.16	52.08	1,670.50	556.57	2,994.22	2,946.81	47.41	63.157		
7,900.00	7,254.00	6,049.17	5,553.53	33.06	35.97	51.69	1,660.21	552.97	3,035.75	2,987.48	48.28	62.882		
8,000.00	7,254.00	6,029.97	5,537.73	34.80	35.78	51.30	1,649.92	549.37	3,079.86	3,030.65	49.21	62.587		
8,100.00	7,254.00	9,209.73	6,963.00	36.66	54.10	84.58	2,562.45	-955.34	3,080.92	2,993.97	86.95	35.434		
8,200.00	7,254.00	9,309.73	6,963.00	38.62	55.77	84.58	2,561.61	-1,055.34	3,080.91	2,989.86	91.05	33.837		
8,300.00	7,254.00	9,409.73	6,963.00	40.66	57.64	84.58	2,560.78	-1,155.33	3,080.90	2,985.61	95.29	32.332		
8,400.00	7,254.00	9,509.73	6,963.00	42.78	59.64	84.58	2,559.94	-1,255.33	3,080.90	2,981.25	99.65	30.917		
8,500.00	7,254.00	9,609.73	6,963.00	44.97	61.74	84.58	2,559.10	-1,355.33	3,080.89	2,976.78	104.11	29.592		
8,600.00	7,254.00	9,709.73	6,963.00	47.21	63.92	84.58	2,558.26	-1,455.32	3,080.88	2,972.21	108.67	28.352		
8,700.00	7,254.00	9,809.73	6,963.00	49.50	66.15	84.58	2,557.42	-1,555.32	3,080.87	2,967.57	113.30	27.193		
8,800.00	7,254.00	9,909.73	6,963.00	51.83	68.44	84.58	2,556.58	-1,655.31	3,080.86	2,962.87	118.00	26.109		
8,900.00	7,254.00	10,009.73	6,963.00	54.20	70.76	84.58	2,555.75	-1,755.31	3,080.86	2,958.10	122.76	25.097		
9,000.00	7,254.00	10,109.73	6,963.00	56.60	73.12	84.58	2,554.91	-1,855.31	3,080.85	2,953.27	127.58	24.149		
9,100.00	7,254.00	10,209.73	6,963.00	59.03	75.50	84.58	2,554.07	-1,955.30	3,080.84	2,948.40	132.44	23.262		

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



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

**Offset Design:** SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Survey Program:		0-OWSG (Rev2) MWD				Semi Major Axis		Highside		Offset Wellbore Centre		Distance			Rule Assigned:		Warning
Reference		Offset				Reference		Toolface		Centre		Between	Between	Minimum	Separation	Warning	
Measured	Vertical	Measured	Vertical	Reference		Offset		Toolface		+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	Warning	
Depth	Depth	Depth	Depth	(usft)	(usft)	(usft)	(usft)	( <sup>o</sup> )	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)			
9,200.00	7,254.00	10,309.73	6,963.00	61.48	77.91	84.58	2,553.23	-2,055.30	3,080.83	2,943.49	137.34	22.431					
9,300.00	7,254.00	10,409.73	6,963.00	63.95	80.35	84.58	2,552.39	-2,155.30	3,080.82	2,938.54	142.29	21.652					
9,400.00	7,254.00	10,509.73	6,963.00	66.44	82.80	84.58	2,551.55	-2,255.29	3,080.82	2,933.55	147.27	20.920					
9,500.00	7,254.00	10,609.73	6,963.00	68.96	85.27	84.58	2,550.72	-2,355.29	3,080.81	2,928.53	152.27	20.232					
9,600.00	7,254.00	10,709.73	6,963.00	71.48	87.76	84.58	2,549.88	-2,455.29	3,080.80	2,923.49	157.31	19.584					
9,700.00	7,254.00	10,809.73	6,963.00	74.02	90.26	84.58	2,549.04	-2,555.28	3,080.79	2,918.42	162.37	18.974					
9,800.00	7,254.00	10,909.73	6,963.00	76.57	92.77	84.58	2,548.20	-2,655.28	3,080.78	2,913.33	167.45	18.398					
9,900.00	7,254.00	11,009.73	6,963.00	79.14	95.29	84.58	2,547.36	-2,755.28	3,080.77	2,908.22	172.56	17.853					
10,000.00	7,254.00	11,109.73	6,963.00	81.71	97.83	84.58	2,546.52	-2,855.27	3,080.77	2,903.08	177.68	17.339					
10,100.00	7,254.00	11,209.73	6,963.00	84.29	100.37	84.58	2,545.69	-2,955.27	3,080.76	2,897.93	182.82	16.851					
10,200.00	7,254.00	11,309.73	6,963.00	86.88	102.93	84.58	2,544.85	-3,055.27	3,080.75	2,892.77	187.98	16.389					
10,300.00	7,254.00	11,409.73	6,963.00	89.48	105.49	84.58	2,544.01	-3,155.26	3,080.74	2,887.59	193.15	15.950					
10,400.00	7,254.00	11,509.73	6,963.00	92.09	108.06	84.58	2,543.17	-3,255.26	3,080.73	2,882.40	198.34	15.533					
10,500.00	7,254.00	11,609.73	6,963.00	94.70	110.64	84.58	2,542.33	-3,355.26	3,080.73	2,877.19	203.53	15.136					
10,600.00	7,254.00	11,709.73	6,963.00	97.32	113.22	84.58	2,541.49	-3,455.25	3,080.72	2,871.98	208.74	14.759					
10,700.00	7,254.00	11,809.73	6,963.00	99.95	115.81	84.58	2,540.66	-3,555.25	3,080.71	2,866.75	213.96	14.398					
10,800.00	7,254.00	11,909.73	6,963.00	102.58	118.40	84.58	2,539.82	-3,655.24	3,080.70	2,861.51	219.19	14.055					
10,900.00	7,254.00	12,009.73	6,963.00	105.21	121.01	84.58	2,538.98	-3,755.24	3,080.69	2,856.27	224.43	13.727					
11,000.00	7,254.00	12,109.73	6,963.00	107.85	123.61	84.58	2,538.14	-3,855.24	3,080.69	2,851.01	229.67	13.413					
11,100.00	7,254.00	12,209.73	6,963.00	110.49	126.22	84.58	2,537.30	-3,955.23	3,080.68	2,845.75	234.93	13.113					
11,200.00	7,254.00	12,309.73	6,963.00	113.14	128.84	84.58	2,536.46	-4,055.23	3,080.67	2,840.48	240.19	12.826					
11,300.00	7,254.00	12,409.73	6,963.00	115.79	131.46	84.58	2,535.63	-4,155.23	3,080.66	2,835.20	245.46	12.551					
11,400.00	7,254.00	12,509.73	6,963.00	118.44	134.08	84.58	2,534.79	-4,255.22	3,080.65	2,829.92	250.74	12.286					
11,500.00	7,254.00	12,609.73	6,963.00	121.09	136.71	84.58	2,533.95	-4,355.22	3,080.65	2,824.63	256.02	12.033					
11,600.00	7,254.00	12,709.73	6,963.00	123.75	139.34	84.58	2,533.11	-4,455.22	3,080.64	2,819.33	261.30	11.789					
11,700.00	7,254.00	12,809.73	6,963.00	126.41	141.98	84.58	2,532.27	-4,555.21	3,080.63	2,814.03	266.60	11.555					
11,800.00	7,254.00	12,909.73	6,963.00	129.08	144.61	84.58	2,531.43	-4,655.21	3,080.62	2,808.73	271.90	11.330					
11,900.00	7,254.00	13,009.73	6,963.00	131.75	147.25	84.58	2,530.59	-4,755.21	3,080.61	2,803.41	277.20	11.113					
12,000.00	7,254.00	13,109.73	6,963.00	134.41	149.90	84.58	2,529.76	-4,855.20	3,080.60	2,798.10	282.51	10.905					
12,100.00	7,254.00	13,209.73	6,963.00	137.08	152.54	84.58	2,528.92	-4,955.20	3,080.60	2,792.78	287.82	10.703					
12,200.00	7,254.00	13,309.73	6,963.00	139.76	155.19	84.58	2,528.08	-5,055.20	3,080.59	2,787.46	293.13	10.509					
12,300.00	7,254.00	13,409.73	6,963.00	142.43	157.84	84.58	2,527.24	-5,155.19	3,080.58	2,782.13	298.45	10.322					
12,400.00	7,254.00	13,509.73	6,963.00	145.11	160.50	84.58	2,526.40	-5,255.19	3,080.57	2,776.80	303.77	10.141					
12,500.00	7,254.00	13,609.73	6,963.00	147.79	163.15	84.58	2,525.56	-5,355.18	3,080.56	2,771.46	309.10	9.966					
12,600.00	7,254.00	13,709.73	6,963.00	150.47	165.81	84.58	2,524.73	-5,455.18	3,080.56	2,766.12	314.43	9.797					
12,700.00	7,254.00	13,809.73	6,963.00	153.15	168.47	84.58	2,523.89	-5,555.18	3,080.55	2,760.78	319.76	9.634					
12,800.00	7,254.00	13,909.73	6,963.00	155.83	171.13	84.58	2,523.05	-5,655.17	3,080.54	2,755.44	325.10	9.476					
12,900.00	7,254.00	14,009.73	6,963.00	158.51	173.79	84.58	2,522.21	-5,755.17	3,080.53	2,750.09	330.44	9.323					
13,000.00	7,254.00	14,109.73	6,963.00	161.20	176.46	84.58	2,521.37	-5,855.17	3,080.52	2,744.74	335.78	9.174					
13,100.00	7,254.00	14,209.73	6,963.00	163.88	179.12	84.58	2,520.53	-5,955.16	3,080.52	2,739.39	341.12	9.031					
13,200.00	7,254.00	14,309.73	6,963.00	166.57	181.79	84.58	2,519.70	-6,055.16	3,080.51	2,734.04	346.47	8.891					
13,300.00	7,254.00	14,409.73	6,963.00	169.26	184.46	84.58	2,518.86	-6,155.16	3,080.50	2,728.68	351.82	8.756					
13,400.00	7,254.00	14,509.73	6,963.00	171.95	187.13	84.58	2,518.02	-6,255.15	3,080.49	2,723.32	357.17	8.625					
13,500.00	7,254.00	14,609.73	6,963.00	174.64	189.80	84.58	2,517.18	-6,355.15	3,080.48	2,717.96	362.52	8.497					
13,600.00	7,254.00	14,709.73	6,963.00	177.33	192.48	84.58	2,516.34	-6,455.15	3,080.47	2,712.60	367.88	8.374					
13,700.00	7,254.00	14,809.73	6,963.00	180.02	195.15	84.58	2,515.50	-6,555.14	3,080.47	2,707.23	373.23	8.253					
13,800.00	7,254.00	14,909.73	6,963.00	182.72	197.83	84.58	2,514.67	-6,655.14	3,080.46	2,701.87	378.59	8.137					
13,900.00	7,254.00	15,009.73	6,963.00	185.41	200.51	84.58	2,513.83	-6,755.14	3,080.45	2,696.50	383.95	8.023					
14,000.00	7,254.00	15,109.73	6,963.00	188.11	203.19	84.58	2,512.99	-6,855.13	3,080.44	2,691.13	389.31	7.912					
14,100.00	7,254.00	15,209.73	6,963.00	190.80	205.87	84.58	2,512.15	-6,955.13	3,080.43	2,685.76	394.68	7.805					
14,200.00	7,254.00	15,309.73	6,963.00	193.50	208.55	84.58	2,511.31	-7,055.13	3,080.43	2,680.38	400.04	7.700					
14,300.00	7,254.00	15,409.73	6,963.00	196.19	211.23	84.58	2,510.47	-7,155.12	3,080.42	2,675.01	405.41	7.598					

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,400.00	7,254.00	15,509.73	6,963.00	198.89	213.91	84.58	2,509.64	-7,255.12	3,080.41	2,669.63	410.78	7.499			
14,500.00	7,254.00	15,609.73	6,963.00	201.59	216.60	84.58	2,508.80	-7,355.11	3,080.40	2,664.25	416.15	7.402			
14,600.00	7,254.00	15,709.73	6,963.00	204.29	219.28	84.58	2,507.96	-7,455.11	3,080.39	2,658.87	421.52	7.308			
14,700.00	7,254.00	15,809.73	6,963.00	206.99	221.97	84.58	2,507.12	-7,555.11	3,080.39	2,653.49	426.89	7.216			
14,800.00	7,254.00	15,909.73	6,963.00	209.69	224.65	84.58	2,506.28	-7,655.10	3,080.38	2,648.11	432.27	7.126			
14,900.00	7,254.00	16,009.73	6,963.00	212.39	227.34	84.58	2,505.44	-7,755.10	3,080.37	2,642.73	437.64	7.039			
15,000.00	7,254.00	16,109.73	6,963.00	215.09	230.03	84.58	2,504.61	-7,855.10	3,080.36	2,637.35	443.02	6.953			
15,100.00	7,254.00	16,209.73	6,963.00	217.79	232.72	84.58	2,503.77	-7,955.09	3,080.35	2,631.96	448.39	6.870			
15,200.00	7,254.00	16,309.73	6,963.00	220.50	235.41	84.58	2,502.93	-8,055.09	3,080.34	2,626.57	453.77	6.788			
15,300.00	7,254.00	16,409.73	6,963.00	223.20	238.10	84.58	2,502.09	-8,155.09	3,080.34	2,621.19	459.15	6.709			
15,400.00	7,254.00	16,509.73	6,963.00	225.90	240.79	84.58	2,501.25	-8,255.08	3,080.33	2,615.80	464.53	6.631			
15,487.95	7,254.00	16,597.67	6,963.00	228.28	243.15	84.58	2,500.52	-8,343.03	3,080.32	2,611.06	469.26	6.564			
15,500.00	7,254.00	16,598.86	6,963.00	228.61	243.19	84.58	2,500.51	-8,344.21	3,080.34	2,610.67	469.67	6.559			
15,600.00	7,254.00	16,598.86	6,963.00	231.31	243.19	84.58	2,500.51	-8,344.21	3,082.31	2,609.76	472.55	6.523			
15,602.20	7,254.00	16,598.86	6,963.00	231.37	243.19	84.58	2,500.51	-8,344.21	3,082.37	2,609.77	472.61	6.522			

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #1
Survey Program: 16-OWSG (Rev2) MWD
Measured Depth (usft) Vertical Depth (usft) Measured Depth (usft) Vertical Depth (usft) Semi Major Axis Reference Offset (usft) (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

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

<b>Offset Design:</b> SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
<b>Survey Program:</b> 16-OWSG (Rev2) MWD											<b>Rule Assigned:</b>		Offset Well Error:	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Highside</b>		<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Separation Factor</b>	<b>Warning</b>
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)			
5,000.00	4,986.58	4,923.08	4,686.31	18.48	31.32	178.90	1,819.74	-614.51	2,277.75	2,230.07	47.68	47.775		
5,100.00	5,086.26	5,074.31	4,827.94	18.86	32.44	177.63	1,820.13	-667.50	2,298.05	2,248.96	49.09	46.813		
5,200.00	5,185.93	5,183.77	4,931.47	19.25	33.21	176.79	1,819.60	-703.06	2,317.27	2,267.15	50.11	46.242		
5,300.00	5,285.61	5,275.88	5,019.00	19.63	33.83	176.13	1,819.38	-731.75	2,336.58	2,285.61	50.97	45.839		
5,400.00	5,385.28	5,360.82	5,099.90	20.02	34.39	175.55	1,819.71	-757.62	2,356.51	2,304.74	51.77	45.519		
5,500.00	5,484.96	5,437.22	5,172.53	20.40	34.91	175.02	1,820.19	-781.32	2,377.20	2,324.71	52.49	45.286		
5,600.00	5,584.64	5,513.00	5,244.49	20.79	35.42	174.51	1,821.69	-805.03	2,399.36	2,346.16	53.21	45.095		
5,700.00	5,684.31	5,682.21	5,406.26	21.17	36.50	173.46	1,824.55	-854.53	2,421.20	2,366.60	54.60	44.344		
5,800.00	5,783.99	5,804.99	5,524.95	21.56	37.21	172.81	1,825.15	-885.89	2,440.29	2,384.70	55.59	43.900		
5,900.00	5,883.67	6,005.38	5,720.90	21.94	38.21	171.94	1,823.61	-927.69	2,455.85	2,398.91	56.94	43.132		
6,000.00	5,983.34	6,292.06	6,002.88	22.33	39.47	170.84	1,809.41	-976.84	2,466.77	2,408.29	58.47	42.187		
6,100.00	6,083.02	6,417.71	6,127.74	22.71	39.87	170.56	1,802.16	-988.78	2,473.85	2,414.66	59.20	41.789		
6,200.00	6,182.69	6,328.88	7,257.77	23.10	47.06	-163.36	1,778.23	123.39	2,438.24	2,374.64	63.60	38.339		
6,300.00	6,282.37	6,330.01	7,257.77	23.48	47.07	-163.33	1,778.24	124.52	2,403.23	2,338.36	64.87	37.047		
6,400.00	6,382.05	6,331.16	7,257.76	23.87	47.09	-163.30	1,778.24	125.68	2,371.93	2,305.83	66.09	35.887		
6,500.00	6,481.72	6,332.34	7,257.76	24.25	47.10	-163.27	1,778.25	126.86	2,344.48	2,277.22	67.26	34.857		
6,600.00	6,581.40	6,333.54	7,257.76	24.64	47.12	-163.24	1,778.26	128.06	2,321.01	2,252.65	68.35	33.956		
6,688.27	6,669.38	6,334.63	7,257.75	24.98	47.13	-163.22	1,778.26	129.14	2,303.70	2,234.45	69.25	33.266		
6,700.00	6,681.08	6,334.70	7,257.75	25.02	47.13	-177.71	1,778.26	129.22	2,301.65	2,232.28	69.36	33.182		
6,750.00	6,730.87	6,333.47	7,257.76	25.21	47.11	133.41	1,778.26	127.98	2,293.56	2,223.75	69.81	32.856		
6,800.00	6,780.30	6,329.68	7,257.77	25.38	47.07	115.85	1,778.24	124.19	2,286.60	2,216.42	70.18	32.583		
6,850.00	6,828.99	6,323.33	7,257.79	25.54	46.99	108.73	1,778.21	117.84	2,280.80	2,210.32	70.48	32.360		
6,900.00	6,876.56	6,314.43	7,257.84	25.69	46.87	105.02	1,778.20	108.95	2,276.20	2,205.48	70.72	32.187		
6,950.00	6,922.66	6,303.02	7,257.92	25.83	46.73	102.70	1,778.21	97.54	2,272.77	2,201.89	70.88	32.063		
7,000.00	6,966.93	6,274.00	7,258.26	25.96	46.36	100.69	1,778.41	68.52	2,270.58	2,199.79	70.79	32.073		
7,050.00	7,009.04	6,274.00	7,258.26	26.08	46.36	99.69	1,778.41	68.52	2,269.32	2,198.27	71.05	31.941		
7,086.28	7,038.05	6,257.87	7,258.52	26.16	46.18	98.77	1,778.61	52.39	2,269.10	2,198.07	71.03	31.944		
7,100.00	7,048.66	6,251.89	7,258.63	26.19	46.11	98.45	1,778.70	46.41	2,269.15	2,198.12	71.03	31.947		
7,150.00	7,085.51	6,228.56	7,259.15	26.30	45.85	97.32	1,779.10	23.09	2,269.88	2,198.90	70.98	31.978		
7,200.00	7,119.28	6,202.94	7,259.85	26.39	45.56	96.26	1,779.66	-2.51	2,271.41	2,200.50	70.91	32.031		
7,250.00	7,149.73	6,179.00	7,260.64	26.49	45.29	95.31	1,780.30	-26.43	2,273.62	2,202.75	70.87	32.081		
7,300.00	7,176.63	6,154.72	7,261.54	26.60	45.04	94.42	1,781.13	-50.68	2,276.48	2,205.60	70.88	32.118		
7,350.00	7,199.77	6,132.14	7,262.42	26.76	44.82	93.60	1,782.13	-73.22	2,279.95	2,209.02	70.93	32.144		
7,400.00	7,218.98	6,108.71	7,263.39	26.99	44.58	92.82	1,783.40	-96.59	2,283.95	2,212.95	71.01	32.166		
7,450.00	7,234.10	6,084.00	7,264.46	27.33	44.34	92.08	1,785.00	-121.23	2,288.41	2,217.30	71.11	32.180		
7,500.00	7,245.03	6,084.00	7,264.46	27.75	44.34	91.48	1,785.00	-121.23	2,293.49	2,222.03	71.46	32.094		
7,550.00	7,251.68	6,039.95	7,265.82	28.25	43.96	90.77	1,788.59	-165.11	2,298.49	2,226.94	71.55	32.124		
7,600.00	7,254.00	6,017.52	7,266.05	28.79	43.77	90.17	1,790.82	-187.43	2,304.03	2,232.21	71.82	32.079		
7,601.67	7,254.00	6,016.77	7,266.06	28.81	43.76	90.15	1,790.90	-188.18	2,304.22	2,232.39	71.83	32.078		
7,700.00	7,254.00	6,000.00	7,266.06	30.03	41.57	88.30	1,804.47	-512.36	2,306.81	2,235.63	71.18	32.408		
7,800.00	7,254.00	6,000.00	7,266.06	31.47	41.27	87.50	1,804.18	-579.38	2,309.02	2,236.81	72.21	31.975		
7,900.00	7,254.00	6,000.00	7,266.06	33.06	41.12	86.77	1,804.29	-629.82	2,313.03	2,239.54	73.49	31.474		
8,000.00	7,254.00	6,000.00	7,266.06	34.80	40.98	85.95	1,804.88	-678.32	2,319.35	2,244.48	74.86	30.981		
8,100.00	7,254.00	6,000.00	7,266.06	36.66	40.82	84.82	1,805.42	-734.68	2,327.65	2,251.33	76.32	30.500		
8,200.00	7,254.00	6,000.00	7,266.06	38.62	40.83	83.88	1,805.50	-773.90	2,338.15	2,260.30	77.85	30.034		
8,300.00	7,254.00	6,000.00	7,266.06	40.66	40.80	83.15	1,805.36	-800.76	2,351.30	2,271.91	79.39	29.616		
8,400.00	7,254.00	6,000.00	7,266.06	42.78	40.80	82.29	1,805.16	-828.83	2,367.44	2,286.52	80.92	29.255		
8,500.00	7,254.00	6,000.00	7,266.06	44.97	40.79	81.30	1,805.11	-858.02	2,386.88	2,304.48	82.40	28.966		
8,600.00	7,254.00	6,000.00	7,266.06	47.21	40.80	80.98	1,805.11	-866.98	2,409.34	2,325.48	83.87	28.728		
8,700.00	7,254.00	6,000.00	7,266.06	49.50	40.80	80.30	1,805.06	-884.27	2,435.08	2,349.84	85.25	28.566		
8,800.00	7,254.00	6,000.00	7,266.06	51.83	40.81	79.77	1,804.95	-897.01	2,464.00	2,377.44	86.56	28.467		
8,900.00	7,254.00	6,000.00	7,266.06	54.20	40.81	79.32	1,804.83	-907.06	2,496.10	2,408.31	87.79	28.434 SF		

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,254.00	7,096.72	6,794.53	56.60	40.82	78.60	1,804.49	-921.84	2,531.23	2,442.31	88.91	28.469		
9,100.00	7,254.00	7,070.88	6,771.04	59.03	40.83	78.04	1,804.08	-932.61	2,569.32	2,479.36	89.96	28.562		
9,200.00	7,254.00	7,035.00	6,737.98	61.48	40.84	77.26	1,803.27	-946.51	2,610.36	2,519.47	90.89	28.721		
9,300.00	7,254.00	7,035.00	6,737.98	63.95	40.84	77.26	1,803.27	-946.51	2,654.14	2,562.32	91.81	28.908		
9,400.00	7,254.00	7,035.00	6,737.98	66.44	40.84	77.26	1,803.27	-946.51	2,700.91	2,608.25	92.65	29.151		
9,500.00	7,254.00	7,035.00	6,737.98	68.96	40.84	77.26	1,803.27	-946.51	2,750.52	2,657.11	93.41	29.446		
9,600.00	7,254.00	6,994.31	6,699.86	71.48	40.84	76.35	1,802.29	-960.69	2,801.91	2,707.91	94.00	29.808		
9,700.00	7,254.00	6,984.14	6,690.23	74.02	40.84	76.13	1,802.08	-963.95	2,856.21	2,761.63	94.59	30.197		
9,800.00	7,254.00	6,974.64	6,681.20	76.57	40.84	75.91	1,801.89	-966.89	2,912.84	2,817.73	95.11	30.626		
9,900.00	7,254.00	6,940.00	6,648.00	79.14	40.84	75.14	1,801.28	-976.76	2,972.04	2,876.54	95.50	31.122		
10,000.00	7,254.00	6,940.00	6,648.00	81.71	40.84	75.14	1,801.28	-976.76	3,032.72	2,936.79	95.93	31.613		
10,100.00	7,254.00	6,940.00	6,648.00	84.29	40.84	75.14	1,801.28	-976.76	3,095.45	2,999.13	96.32	32.139		
10,200.00	7,254.00	6,940.00	6,648.00	86.88	40.84	75.14	1,801.28	-976.76	3,160.10	3,063.45	96.65	32.696		
10,300.00	7,254.00	6,940.00	6,648.00	89.48	40.84	75.14	1,801.28	-976.76	3,226.55	3,129.61	96.94	33.284		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft		
Survey Program: 16-OWSG (Rev2) MWD											Offset Well Error: 0.00 usft				
Reference			Offset			Semi Major Axis		Highside		Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	6.00	6.00	0.00	0.00	0.00	0.00	23.22	1,850.65	794.07	2,013.81				
100.00	100.00	100.58	100.58	0.14	0.31	23.22	0.14	23.22	1,850.82	793.96	2,013.94	2,013.49	0.45	4,471.857	
200.00	200.00	202.98	202.98	0.50	0.67	23.19	0.50	23.19	1,851.43	793.23	2,014.20	2,013.03	1.18	1,713.779	
300.00	300.00	322.25	322.17	0.86	1.10	23.08	0.86	23.08	1,852.69	789.62	2,014.01	2,012.05	1.96	1,025.564	
400.00	400.00	485.08	484.48	1.22	1.71	22.74	1.22	22.74	1,853.91	776.92	2,011.65	2,008.72	2.92	687.881	
500.00	500.00	602.30	600.89	1.58	2.17	22.37	1.58	22.37	1,854.04	763.20	2,007.22	2,003.48	3.74	536.843	
600.00	600.00	700.76	698.46	1.94	2.57	22.02	1.94	22.02	1,854.46	750.01	2,002.52	1,998.03	4.49	445.868	
700.00	700.00	794.39	791.04	2.29	2.97	21.64	2.29	21.64	1,855.59	736.07	1,998.06	1,992.81	5.24	380.985	
800.00	799.98	885.20	880.46	2.64	3.37	-141.48	2.64	3.37	1,857.88	720.41	1,995.42	1,989.43	5.98	333.409	
830.02	829.98	912.20	906.96	2.74	3.50	-141.65	2.74	3.50	1,858.80	715.32	1,995.26	1,989.06	6.20	321.607 CC, ES	
900.00	899.84	979.89	973.24	2.97	3.81	-142.09	2.97	3.81	1,861.50	701.83	1,996.05	1,989.30	6.75	295.793	
930.56	930.31	1,011.23	1,003.88	3.07	3.96	-142.31	3.07	3.96	1,862.79	695.39	1,996.83	1,989.83	7.00	285.242	
1,000.00	999.53	1,099.25	1,089.76	3.31	4.39	-142.98	3.31	4.39	1,866.32	676.42	1,998.73	1,991.06	7.67	260.688	
1,100.00	1,099.20	1,196.86	1,184.52	3.66	4.89	-143.77	3.66	4.89	1,870.03	653.35	2,000.87	1,992.36	8.51	235.040	
1,200.00	1,198.88	1,295.86	1,280.27	4.02	5.43	-144.61	4.02	5.43	1,874.50	628.59	2,003.64	1,994.24	9.40	213.225	
1,300.00	1,298.56	1,441.76	1,420.30	4.38	6.27	-145.95	4.38	6.27	1,880.50	588.05	2,005.79	1,995.21	10.58	189.519	
1,400.00	1,398.23	1,607.48	1,577.84	4.75	7.30	-147.57	4.75	7.30	1,882.95	536.77	2,004.95	1,993.01	11.95	167.839	
1,500.00	1,497.91	1,687.71	1,653.44	5.12	7.83	-148.41	5.12	7.83	1,883.41	509.91	2,003.44	1,990.60	12.84	156.074	
1,531.66	1,529.46	1,708.44	1,672.97	5.23	7.97	-148.63	5.23	7.97	1,883.72	502.96	2,003.34	1,990.25	13.09	153.026	
1,600.00	1,597.58	1,754.12	1,716.01	5.49	8.28	-149.11	5.49	8.28	1,884.71	487.69	2,003.79	1,990.14	13.65	146.807	
1,700.00	1,697.26	1,824.32	1,782.17	5.86	8.75	-149.85	5.86	8.75	1,886.97	464.32	2,005.99	1,991.50	14.49	138.439	
1,800.00	1,796.94	1,918.60	1,871.04	6.23	9.40	-150.85	6.23	9.40	1,890.55	433.07	2,009.43	1,993.93	15.50	129.680	
1,900.00	1,896.61	2,025.37	1,971.65	6.61	10.13	-151.97	6.61	10.13	1,893.82	397.46	2,012.81	1,996.21	16.60	121.289	
2,000.00	1,996.29	2,105.86	2,047.03	6.99	10.70	-152.85	6.99	10.70	1,896.78	369.40	2,017.20	1,999.67	17.53	115.059	
2,100.00	2,095.97	2,219.68	2,153.32	7.37	11.53	-154.11	7.37	11.53	1,900.85	328.90	2,022.16	2,003.43	18.72	107.996	
2,200.00	2,195.64	2,326.50	2,253.06	7.75	12.32	-155.29	7.75	12.32	1,903.26	290.74	2,026.58	2,006.70	19.88	101.959	
2,300.00	2,295.32	2,410.06	2,330.38	8.12	12.96	-156.26	8.12	12.96	1,905.51	259.12	2,031.96	2,011.08	20.88	97.321	
2,400.00	2,394.99	2,515.42	2,427.47	8.51	13.79	-157.50	8.51	13.79	1,908.54	218.32	2,038.28	2,016.21	22.07	92.358	
2,500.00	2,494.67	2,598.66	2,504.14	8.89	14.45	-158.47	8.89	14.45	1,910.08	185.95	2,044.52	2,021.43	23.09	88.560	
2,600.00	2,594.35	2,661.00	2,561.67	9.27	14.94	-159.19	9.27	14.94	1,912.47	162.06	2,053.23	2,029.30	23.93	85.809	
2,700.00	2,694.02	2,719.40	2,615.63	9.65	15.40	-159.86	9.65	15.40	1,915.57	139.95	2,064.07	2,039.35	24.72	83.493	
2,800.00	2,793.70	2,797.88	2,688.23	10.03	16.02	-160.74	10.03	16.02	1,920.13	110.48	2,076.35	2,050.68	25.67	80.883	
2,900.00	2,893.38	2,881.10	2,765.32	10.41	16.66	-161.65	10.41	16.66	1,925.44	79.60	2,089.90	2,063.25	26.65	78.429	
3,000.00	2,993.05	2,986.95	2,863.97	10.80	17.46	-162.76	10.80	17.46	1,932.14	41.80	2,104.12	2,076.34	27.78	75.741	
3,100.00	3,092.73	3,099.46	2,969.76	11.18	18.27	-163.87	11.18	18.27	1,938.02	3.97	2,117.85	2,088.92	28.93	73.204	
3,200.00	3,192.41	3,181.38	3,046.80	11.56	18.87	-164.66	11.56	18.87	1,942.13	-23.57	2,132.03	2,102.19	29.84	71.453	
3,300.00	3,292.08	3,279.72	3,138.82	11.94	19.59	-165.63	11.94	19.59	1,947.67	-57.78	2,147.44	2,116.56	30.87	69.554	
3,400.00	3,391.76	3,376.72	3,230.18	12.33	20.28	-166.54	12.33	20.28	1,952.15	-90.09	2,162.34	2,130.46	31.88	67.824	
3,500.00	3,491.43	3,454.56	3,303.75	12.71	20.82	-167.23	12.71	20.82	1,956.53	-115.10	2,178.58	2,145.86	32.72	66.583	
3,600.00	3,591.11	3,540.87	3,385.40	13.09	21.42	-167.98	13.09	21.42	1,961.51	-142.65	2,195.47	2,161.85	33.61	65.317	
3,700.00	3,690.79	3,615.00	3,455.30	13.48	21.94	-168.64	13.48	21.94	1,966.61	-166.81	2,213.85	2,179.44	34.41	64.341	
3,800.00	3,790.46	3,658.32	3,495.93	13.86	22.27	-169.02	13.86	22.27	1,970.18	-181.38	2,234.00	2,199.04	34.95	63.911	
3,900.00	3,890.14	3,710.00	3,544.12	14.25	22.65	-169.50	14.25	22.65	1,975.13	-199.40	2,256.27	2,220.72	35.55	63.466	
4,000.00	3,989.82	3,772.39	3,601.98	14.63	23.13	-170.07	14.63	23.13	1,981.94	-221.72	2,280.43	2,244.19	36.24	62.926	
4,100.00	4,089.49	3,858.33	3,681.41	15.01	23.80	-170.86	15.01	23.80	1,992.18	-252.88	2,306.07	2,268.93	37.14	62.093	
4,200.00	4,189.17	3,959.41	3,774.77	15.40	24.59	-171.78	15.40	24.59	2,003.58	-289.91	2,331.72	2,293.54	38.18	61.079	
4,300.00	4,288.84	4,074.28	3,881.23	15.78	25.48	-172.78	15.78	25.48	2,016.16	-331.18	2,357.47	2,318.15	39.32	59.961	
4,400.00	4,388.52	4,228.01	4,025.11	16.17	26.62	-174.03	16.17	26.62	2,030.15	-383.45	2,381.35	2,340.58	40.77	58.415	
4,500.00	4,488.20	4,328.32	4,118.34	16.55	27.39	-174.89	16.55	27.39	2,037.64	-419.69	2,404.90	2,363.13	41.76	57.585	
4,600.00	4,587.87	4,471.57	4,251.99	16.94	28.48	-176.06	16.94	28.48	2,046.80	-470.43	2,427.83	2,384.72	43.12	56.306	
4,700.00	4,687.55	4,553.82	4,329.14	17.32	29.09	-176.70	17.32	29.09	2,051.51	-498.54	2,450.20	2,406.27	43.94	55.768	
4,800.00	4,787.23	4,662.13	4,431.13	17.71	29.86	-177.50	17.71	29.86	2,058.01	-534.43	2,472.94	2,427.99	44.95	55.017	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 16-OWSG (Rev2) MWD Reference: 16-OWSG (Rev2) MWD				Rule Assigned:									Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.00	4,886.90	4,752.65	4,516.52	18.09	30.51	-178.15	2,063.25	-564.02	2,495.70	2,449.89	45.81	54.482	
5,000.00	4,986.58	4,831.55	4,590.63	18.48	31.09	-178.73	2,067.76	-590.70	2,519.09	2,472.51	46.58	54.077	
5,100.00	5,086.26	4,917.89	4,671.31	18.86	31.73	-179.38	2,072.71	-621.02	2,543.27	2,495.85	47.42	53.633	
8,800.00	7,254.00	6,971.79	6,665.58	51.83	40.50	77.28	2,128.88	-892.26	2,804.07	2,716.88	87.19	32.160	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		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)				
8,900.00	7,254.00	6,945.00	6,642.16	54.20	40.51	76.79	2,127.21	-905.15	2,832.45	2,743.77	88.68	31.939		
9,000.00	7,254.00	6,945.00	6,642.16	56.60	40.51	76.79	2,127.21	-905.15	2,863.92	2,773.74	90.18	31.759		
9,100.00	7,254.00	6,911.30	6,612.09	59.03	40.52	76.16	2,125.05	-920.20	2,897.83	2,806.33	91.50	31.671		
9,200.00	7,254.00	6,899.55	6,601.41	61.48	40.52	75.94	2,124.35	-925.04	2,934.82	2,842.02	92.80	31.625 SF		
9,300.00	7,254.00	6,888.77	6,591.52	63.95	40.53	75.73	2,123.72	-929.29	2,974.56	2,880.53	94.03	31.635		
9,400.00	7,254.00	6,850.00	6,555.36	66.44	40.54	74.98	2,121.61	-943.08	3,017.50	2,922.43	95.07	31.739		
9,500.00	7,254.00	6,850.00	6,555.36	68.96	40.54	74.98	2,121.61	-943.08	3,062.18	2,966.01	96.18	31.839		
9,600.00	7,254.00	6,850.00	6,555.36	71.48	40.54	74.98	2,121.61	-943.08	3,109.44	3,012.24	97.20	31.989		
9,700.00	7,254.00	6,850.00	6,555.36	74.02	40.54	74.98	2,121.61	-943.08	3,159.16	3,061.01	98.15	32.187		
9,800.00	7,254.00	6,850.00	6,555.36	76.57	40.54	74.98	2,121.61	-943.08	3,211.23	3,112.21	99.02	32.429		
9,900.00	7,254.00	6,850.00	6,555.36	79.14	40.54	74.98	2,121.61	-943.08	3,265.53	3,165.70	99.82	32.713		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 40N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft	
Survey Program: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	+N/-S (usft)		+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	6.00	6.00	0.00	0.00	24.62	1,731.52	793.52	1,904.69					
100.00	100.00	105.38	105.38	0.14	0.32	24.62	1,731.49	793.63	1,904.70	1,904.24	0.46	4,106.604		
200.00	200.00	241.51	241.50	0.50	0.80	24.63	1,730.53	793.51	1,904.11	1,902.81	1.30	1,460.211		
300.00	300.00	459.53	459.23	0.86	1.59	24.63	1,721.04	788.88	1,899.42	1,896.97	2.45	775.143		
400.00	400.00	641.90	640.48	1.22	2.29	24.52	1,704.61	777.54	1,888.18	1,884.71	3.47	544.539		
500.00	500.00	804.61	801.61	1.58	2.96	24.39	1,686.25	764.45	1,874.89	1,870.47	4.42	424.541		
600.00	600.00	1,007.76	1,001.01	1.94	3.88	24.20	1,653.77	743.35	1,855.68	1,850.17	5.51	336.648		
700.00	700.00	1,125.61	1,115.99	2.29	4.46	24.10	1,631.67	729.96	1,833.92	1,827.62	6.30	291.186		
800.00	799.98	1,324.12	1,308.27	2.64	5.51	-139.01	1,588.14	707.03	1,810.78	1,803.43	7.35	246.247		
900.00	899.84	1,443.53	1,422.66	2.97	6.18	-139.54	1,557.60	691.52	1,785.87	1,777.75	8.12	220.037		
930.56	930.31	1,470.79	1,448.75	3.07	6.34	-139.70	1,550.62	687.83	1,778.72	1,770.40	8.32	213.845		
1,000.00	999.53	1,530.81	1,506.25	3.31	6.68	-139.86	1,535.48	679.60	1,762.95	1,754.17	8.79	200.604		
1,100.00	1,099.20	1,622.01	1,593.71	3.66	7.21	-140.12	1,512.95	666.90	1,740.67	1,731.18	9.49	183.376		
1,200.00	1,198.88	1,714.15	1,682.13	4.02	7.75	-140.39	1,490.53	653.96	1,718.71	1,708.51	10.21	168.383		
1,300.00	1,298.56	1,826.88	1,790.20	4.38	8.41	-140.74	1,462.82	637.79	1,696.45	1,685.45	11.00	154.281		
1,400.00	1,398.23	1,937.33	1,895.96	4.75	9.08	-141.06	1,434.92	622.42	1,673.82	1,662.04	11.78	142.081		
1,500.00	1,497.91	2,058.30	2,011.10	5.12	9.82	-141.49	1,403.12	603.36	1,649.43	1,636.83	12.60	130.856		
1,600.00	1,597.58	2,149.56	2,097.78	5.49	10.40	-141.88	1,379.39	587.45	1,624.80	1,611.45	13.34	121.758		
1,700.00	1,697.26	2,266.47	2,208.73	5.86	11.14	-142.41	1,349.01	566.62	1,600.16	1,585.99	14.17	112.948		
1,800.00	1,796.94	2,368.32	2,304.96	6.23	11.81	-142.92	1,321.86	547.23	1,574.46	1,559.51	14.95	105.296		
1,900.00	1,896.61	2,480.64	2,410.81	6.61	12.55	-143.52	1,291.35	525.30	1,548.21	1,532.44	15.77	98.145		
2,000.00	1,996.29	2,579.87	2,504.05	6.99	13.22	-144.07	1,263.71	505.59	1,521.31	1,504.75	16.57	91.837		
2,100.00	2,095.97	2,656.00	2,575.77	7.37	13.73	-144.49	1,242.79	490.96	1,495.13	1,477.83	17.30	86.441		
2,200.00	2,195.64	2,744.70	2,659.62	7.75	14.32	-144.97	1,218.94	474.58	1,469.90	1,451.84	18.06	81.374		
2,300.00	2,295.32	2,852.55	2,761.51	8.12	15.03	-145.61	1,190.10	454.14	1,444.77	1,425.88	18.89	76.487		
2,400.00	2,394.99	2,933.53	2,838.00	8.51	15.57	-146.12	1,168.68	438.38	1,419.86	1,400.21	19.65	72.251		
2,500.00	2,494.67	3,004.67	2,905.51	8.89	16.03	-146.57	1,150.58	425.14	1,396.36	1,375.98	20.39	68.490		
2,600.00	2,594.35	3,093.19	2,989.96	9.27	16.59	-147.12	1,129.15	409.50	1,374.47	1,353.30	21.17	64.918		
2,700.00	2,694.02	3,191.60	3,083.73	9.65	17.21	-147.78	1,105.36	391.48	1,352.59	1,330.59	21.99	61.504		
2,800.00	2,793.70	3,291.76	3,179.19	10.03	17.84	-148.45	1,080.96	373.50	1,330.80	1,307.98	22.82	58.317		
2,900.00	2,893.38	3,391.94	3,274.66	10.41	18.48	-149.10	1,055.94	356.28	1,308.81	1,285.16	23.65	55.344		
3,000.00	2,993.05	3,494.70	3,372.55	10.80	19.13	-149.78	1,029.84	339.05	1,286.68	1,262.19	24.49	52.548		
3,100.00	3,092.73	3,591.57	3,464.62	11.18	19.76	-150.48	1,005.16	321.86	1,264.36	1,239.04	25.32	49.928		
3,200.00	3,192.41	3,703.56	3,570.53	11.56	20.50	-151.45	976.83	299.03	1,241.79	1,215.56	26.23	47.345		
3,300.00	3,292.08	3,811.88	3,672.19	11.94	21.25	-152.55	948.70	274.38	1,218.25	1,191.09	27.16	44.854		
3,400.00	3,391.76	3,915.18	3,768.81	12.33	21.97	-153.65	921.07	250.47	1,194.22	1,166.12	28.10	42.501		
3,500.00	3,491.43	4,008.99	3,856.52	12.71	22.63	-154.67	895.38	229.29	1,170.08	1,141.06	29.02	40.314		
3,600.00	3,591.11	4,084.00	3,927.23	13.09	23.15	-155.40	875.23	214.45	1,147.35	1,117.45	29.90	38.374		
3,700.00	3,690.79	4,157.71	3,997.41	13.48	23.61	-156.03	856.38	202.15	1,126.70	1,095.96	30.74	36.651		
3,800.00	3,790.46	4,254.44	4,090.03	13.86	24.21	-156.82	832.65	187.54	1,107.55	1,075.93	31.62	35.022		
3,900.00	3,890.14	4,354.72	4,185.81	14.25	24.84	-157.71	807.71	171.31	1,088.16	1,055.62	32.54	33.445		
4,000.00	3,989.82	4,480.56	4,305.31	14.63	25.66	-158.96	775.00	149.37	1,067.77	1,034.25	33.52	31.854		
4,100.00	4,089.49	4,560.00	4,380.73	15.01	26.18	-159.79	754.35	135.36	1,047.53	1,013.08	34.45	30.411		
4,200.00	4,189.17	4,637.90	4,455.02	15.40	26.67	-160.61	735.02	122.09	1,028.89	993.53	35.36	29.094		
4,300.00	4,288.84	4,742.96	4,555.38	15.78	27.33	-161.71	709.29	104.66	1,011.02	974.67	36.34	27.818		
4,400.00	4,388.52	4,852.33	4,659.47	16.17	28.03	-162.92	681.14	86.40	992.19	954.85	37.35	26.567		
4,500.00	4,488.20	4,941.00	4,743.67	16.55	28.61	-163.96	657.87	71.18	973.24	934.90	38.34	25.385		
4,600.00	4,587.87	5,027.04	4,825.66	16.94	29.16	-164.97	636.06	56.86	955.59	916.26	39.33	24.296		
4,700.00	4,687.55	5,113.94	4,908.96	17.32	29.69	-165.96	615.24	43.48	939.67	899.35	40.31	23.309		
4,800.00	4,787.23	5,208.54	4,999.80	17.71	30.26	-167.06	593.22	28.94	924.78	883.45	41.32	22.378		
4,900.00	4,886.90	5,302.02	5,089.41	18.09	30.83	-168.26	571.62	13.34	910.52	868.14	42.37	21.489		
5,000.00	4,986.58	5,399.39	5,182.62	18.48	31.43	-169.59	549.30	-3.73	896.95	853.49	43.46	20.638		

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

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

**Offset Design:** SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 40N-12HZ - Wellbore #1 - Wellbore #1 **Offset Site Error:** 0.00 usft

**Survey Program:** 16-OWSG (Rev2) MWD **Offset Well Error:** 0.00 usft

Measured Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,086.26	5,493.68	5,272.91	18.86	32.01	-170.92	527.71	-20.28	883.91	839.36	44.56	19.837	
5,200.00	5,185.93	5,588.20	5,363.68	19.25	32.58	-172.22	506.47	-35.84	871.70	826.05	45.65	19.095	
5,300.00	5,285.61	5,678.80	5,450.82	19.63	33.13	-173.49	486.54	-50.64	860.44	813.71	46.74	18.410	
5,400.00	5,385.28	5,765.02	5,533.70	20.02	33.64	-174.78	468.26	-65.83	850.69	802.84	47.84	17.781	
5,500.00	5,484.96	5,874.06	5,637.60	20.40	34.33	-176.73	444.86	-89.14	842.05	792.90	49.15	17.132	
5,600.00	5,584.64	5,981.10	5,738.77	20.79	35.04	-178.80	419.52	-113.18	832.31	781.81	50.51	16.479	
5,700.00	5,684.31	6,091.30	5,843.75	21.17	35.75	179.30	392.89	-133.54	822.06	770.27	51.79	15.872	
5,800.00	5,783.99	6,195.18	5,942.81	21.56	36.41	177.57	366.84	-150.76	811.14	758.11	53.03	15.296	
5,900.00	5,883.67	6,288.84	6,032.17	21.94	37.00	175.98	343.30	-166.06	800.79	746.55	54.25	14.762	
6,000.00	5,983.34	6,386.63	6,125.65	22.33	37.61	174.33	319.12	-181.53	791.33	735.86	55.47	14.266	
6,100.00	6,083.02	6,499.24	6,233.24	22.71	38.31	172.42	290.44	-198.40	781.62	724.90	56.72	13.780	
6,200.00	6,182.69	6,824.08	6,536.08	23.10	40.06	169.49	182.64	-191.41	760.59	705.42	55.17	13.785	
6,300.00	6,282.37	6,894.40	6,598.20	23.48	40.25	170.40	159.52	-167.98	722.92	666.81	56.11	12.885	
6,400.00	6,382.05	6,955.31	6,652.41	23.87	40.37	171.66	144.25	-144.83	689.74	632.56	57.17	12.064	
6,500.00	6,481.72	7,034.00	6,722.74	24.25	40.47	173.76	129.40	-112.86	661.28	603.60	57.67	11.466	
6,600.00	6,581.40	7,111.16	6,791.31	24.64	40.53	176.22	117.66	-79.49	636.05	577.95	58.10	10.948	
6,688.27	6,669.38	7,426.35	7,018.38	24.98	40.71	-166.11	40.02	117.39	599.09	547.81	51.28	11.683	
6,700.00	6,681.08	7,400.64	7,004.25	25.02	40.70	177.73	47.85	97.47	593.17	540.75	52.42	11.316	
6,750.00	6,730.87	7,450.43	7,029.85	25.21	40.68	135.15	33.26	137.44	569.71	517.12	52.59	10.834	
6,800.00	6,780.30	7,466.91	7,037.22	25.38	40.67	120.93	28.90	151.53	549.14	495.59	53.56	10.254	
6,850.00	6,828.99	7,477.75	7,041.85	25.54	40.67	116.30	26.17	160.94	532.57	478.15	54.42	9.787	
6,900.00	6,876.56	7,483.90	7,044.40	25.69	40.67	114.21	24.67	166.33	520.83	465.78	55.05	9.462	
6,950.00	6,922.66	7,486.18	7,045.34	25.83	40.66	112.69	24.13	168.34	514.51	459.16	55.35	9.296	
6,980.05	6,949.51	7,485.98	7,045.25	25.91	40.66	111.74	24.18	168.16	513.46	458.12	55.35	9.277	CC, ES, SF
7,000.00	6,966.93	7,485.28	7,044.97	25.96	40.66	111.05	24.34	167.54	513.92	458.65	55.27	9.298	
7,050.00	7,009.04	7,481.74	7,043.51	26.08	40.67	109.03	25.20	164.44	519.08	464.23	54.85	9.464	
7,100.00	7,048.66	7,476.04	7,041.13	26.19	40.67	106.51	26.59	159.45	529.68	475.54	54.15	9.782	
7,150.00	7,085.51	7,468.54	7,037.93	26.30	40.67	103.45	28.48	152.94	545.24	491.96	53.28	10.233	
7,200.00	7,119.28	7,459.55	7,033.98	26.39	40.68	99.87	30.81	145.21	565.09	512.72	52.36	10.792	
7,250.00	7,149.73	7,449.32	7,029.34	26.49	40.68	95.81	33.56	136.51	588.50	537.00	51.50	11.428	
7,300.00	7,176.63	7,416.00	7,013.24	26.60	40.70	89.33	43.15	108.97	615.54	565.28	50.26	12.246	
7,350.00	7,199.77	7,416.00	7,013.24	26.76	40.70	85.79	43.15	108.97	643.33	593.40	49.94	12.883	
7,400.00	7,218.98	7,416.00	7,013.24	26.99	40.70	81.96	43.15	108.97	673.15	623.25	49.91	13.488	
7,450.00	7,234.10	7,416.00	7,013.24	27.33	40.70	77.94	43.15	108.97	704.53	654.39	50.14	14.051	
7,500.00	7,245.03	7,380.43	6,994.15	27.75	40.69	71.84	53.98	80.98	735.36	685.81	49.55	14.840	
7,550.00	7,251.68	7,363.88	6,984.55	28.25	40.69	67.29	59.05	68.50	766.72	717.05	49.67	15.436	
7,600.00	7,254.00	7,347.06	6,974.34	28.79	40.69	63.11	64.22	56.17	797.77	747.84	49.93	15.978	
7,601.67	7,254.00	7,346.49	6,973.99	28.81	40.68	62.98	64.39	55.76	798.80	748.86	49.94	15.995	
7,700.00	7,254.00	7,315.00	6,953.66	30.03	40.67	61.77	74.05	33.73	861.52	810.86	50.66	17.006	
7,800.00	7,254.00	7,273.96	6,924.93	31.47	40.65	60.09	85.71	6.87	928.94	877.78	51.16	18.156	
7,900.00	7,254.00	7,240.27	6,899.56	33.06	40.62	58.63	94.14	-13.62	999.54	947.68	51.86	19.272	
8,000.00	7,254.00	7,209.26	6,874.94	34.80	40.60	57.23	100.99	-31.18	1,073.09	1,020.48	52.61	20.396	
8,100.00	7,254.00	7,180.48	6,851.23	36.66	40.58	55.91	106.64	-46.49	1,149.19	1,095.82	53.36	21.536	
8,200.00	7,254.00	7,158.00	6,832.20	38.62	40.56	54.87	110.59	-57.77	1,227.59	1,173.40	54.19	22.654	
8,300.00	7,254.00	7,130.00	6,807.90	40.66	40.54	53.56	114.93	-70.98	1,308.04	1,253.21	54.83	23.856	
8,400.00	7,254.00	7,105.08	6,785.94	42.78	40.52	52.42	118.55	-82.20	1,390.22	1,334.75	55.47	25.061	
8,500.00	7,254.00	7,078.32	6,762.24	44.97	40.50	51.25	122.55	-93.97	1,473.78	1,417.76	56.02	26.306	
8,600.00	7,254.00	7,034.00	6,722.74	47.21	40.47	49.42	129.40	-112.86	1,558.75	1,502.51	56.24	27.718	
8,700.00	7,254.00	7,034.00	6,722.74	49.50	40.47	49.42	129.40	-112.86	1,644.41	1,587.29	57.12	28.788	
8,800.00	7,254.00	7,007.19	6,698.76	51.83	40.44	48.38	133.92	-123.95	1,731.22	1,673.70	57.52	30.096	
8,900.00	7,254.00	6,986.18	6,679.97	54.20	40.41	47.63	137.85	-132.50	1,818.92	1,760.94	57.97	31.375	
9,000.00	7,254.00	6,965.80	6,661.77	56.60	40.39	46.93	142.00	-140.68	1,907.39	1,848.99	58.39	32.664	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 40N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,100.00	7,254.00	6,939.00	6,637.87	59.03	40.35	46.08	147.94	-151.23	1,996.57	1,937.86	58.71	34.008		
9,200.00	7,254.00	6,939.00	6,637.87	61.48	40.35	46.08	147.94	-151.23	2,086.40	2,027.11	59.29	35.191		
9,300.00	7,254.00	6,939.00	6,637.87	63.95	40.35	46.08	147.94	-151.23	2,177.11	2,117.30	59.81	36.401		
9,400.00	7,254.00	6,906.40	6,608.85	66.44	40.28	45.14	156.16	-163.60	2,267.87	2,207.90	59.97	37.820		
9,500.00	7,254.00	6,894.98	6,598.71	68.96	40.26	44.84	159.36	-167.77	2,359.47	2,299.16	60.31	39.120		
9,600.00	7,254.00	6,884.04	6,589.01	71.48	40.23	44.56	162.57	-171.68	2,451.57	2,390.93	60.64	40.428		
9,700.00	7,254.00	6,844.00	6,553.67	74.02	40.14	43.66	175.56	-185.29	2,544.69	2,483.96	60.73	41.905		
9,800.00	7,254.00	6,844.00	6,553.67	76.57	40.14	43.66	175.56	-185.29	2,637.31	2,576.21	61.10	43.162		
9,900.00	7,254.00	6,844.00	6,553.67	79.14	40.14	43.66	175.56	-185.29	2,730.46	2,669.01	61.45	44.434		
10,000.00	7,254.00	6,844.00	6,553.67	81.71	40.14	43.66	175.56	-185.29	2,824.08	2,762.31	61.77	45.719		
10,100.00	7,254.00	6,844.00	6,553.67	84.29	40.14	43.66	175.56	-185.29	2,918.11	2,856.05	62.07	47.016		
10,200.00	7,254.00	6,844.00	6,553.67	86.88	40.14	43.66	175.56	-185.29	3,012.54	2,950.20	62.34	48.322		
10,300.00	7,254.00	6,844.00	6,553.67	89.48	40.14	43.66	175.56	-185.29	3,107.31	3,044.71	62.60	49.637		
10,400.00	7,254.00	6,844.00	6,553.67	92.09	40.14	43.66	175.56	-185.29	3,202.40	3,139.56	62.84	50.960		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft	
Survey Program: 16-OWSG (Rev2) MWD												Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	6.00	6.00	0.00	0.00	23.93	1,790.17	794.35	1,958.50						
100.00	100.00	89.85	89.85	0.14	0.27	23.93	1,790.46	794.47	1,958.87	1,958.46	0.41	4,778.310			
200.00	200.00	188.92	188.91	0.50	0.62	23.93	1,791.43	794.82	1,959.92	1,958.79	1.12	1,746.660			
300.00	300.00	389.49	389.42	0.86	1.32	23.89	1,789.14	792.35	1,958.52	1,956.34	2.18	898.233			
400.00	400.00	553.30	552.83	1.22	1.90	23.72	1,782.51	783.13	1,952.48	1,949.37	3.12	626.738			
500.00	500.00	681.97	680.78	1.58	2.38	23.47	1,775.94	771.27	1,944.06	1,940.12	3.94	493.986			
600.00	600.00	807.52	805.10	1.94	2.89	23.10	1,769.87	754.93	1,934.42	1,929.65	4.77	405.751			
700.00	700.00	927.02	922.73	2.29	3.40	22.60	1,764.46	734.60	1,923.52	1,917.93	5.60	343.657			
800.00	799.98	1,023.35	1,017.17	2.64	3.84	-140.64	1,760.84	715.96	1,913.86	1,907.52	6.34	301.840			
900.00	899.84	1,156.05	1,146.73	2.97	4.47	-141.59	1,755.10	687.89	1,905.82	1,898.57	7.25	262.862			
930.56	930.31	1,190.23	1,180.00	3.07	4.64	-141.86	1,753.49	680.23	1,903.73	1,896.22	7.51	253.629			
1,000.00	999.53	1,258.38	1,246.24	3.31	4.99	-142.37	1,750.34	664.52	1,899.25	1,891.19	8.06	235.523			
1,100.00	1,099.20	1,402.09	1,385.40	3.66	5.75	-143.50	1,742.87	629.44	1,892.19	1,883.09	9.10	207.944			
1,200.00	1,198.88	1,511.17	1,490.30	4.02	6.36	-144.42	1,735.85	600.36	1,883.46	1,873.45	10.01	188.105			
1,300.00	1,298.56	1,608.42	1,583.52	4.38	6.93	-145.29	1,730.00	573.30	1,875.16	1,864.27	10.89	172.135			
1,400.00	1,398.23	1,709.39	1,680.45	4.75	7.52	-146.16	1,722.89	545.94	1,866.59	1,854.79	11.80	158.195			
1,500.00	1,497.91	1,795.55	1,763.48	5.12	8.01	-146.89	1,717.08	523.65	1,859.07	1,846.44	12.63	147.177			
1,600.00	1,597.58	1,891.41	1,855.86	5.49	8.57	-147.70	1,710.52	498.92	1,851.91	1,838.39	13.52	137.002			
1,700.00	1,697.26	2,037.55	1,995.57	5.86	9.47	-149.05	1,699.59	457.53	1,843.83	1,829.13	14.71	125.383			
1,800.00	1,796.94	2,164.20	2,114.52	6.23	10.33	-150.41	1,689.12	415.36	1,834.28	1,818.41	15.87	115.577			
1,900.00	1,896.61	2,268.03	2,211.30	6.61	11.07	-151.59	1,679.71	378.97	1,824.22	1,807.28	16.94	107.664			
2,000.00	1,996.29	2,366.27	2,303.28	6.99	11.77	-152.68	1,670.11	345.81	1,814.51	1,796.53	17.98	100.914			
2,100.00	2,095.97	2,475.89	2,406.09	7.37	12.54	-153.87	1,658.57	309.57	1,804.91	1,785.83	19.08	94.581			
2,200.00	2,195.64	2,577.30	2,501.30	7.75	13.25	-154.97	1,646.96	276.63	1,795.20	1,775.06	20.14	89.150			
2,300.00	2,295.32	2,656.00	2,575.65	8.12	13.78	-155.78	1,637.94	252.49	1,786.41	1,765.36	21.05	84.863			
2,400.00	2,394.99	2,739.02	2,654.64	8.51	14.32	-156.60	1,628.80	228.63	1,778.90	1,756.93	21.96	80.989			
2,500.00	2,494.67	2,846.00	2,756.43	8.89	15.02	-157.64	1,616.52	198.10	1,771.44	1,748.43	23.01	76.982			
2,600.00	2,594.35	2,909.23	2,816.35	9.27	15.44	-158.30	1,609.64	179.13	1,765.15	1,741.31	23.84	74.038			
2,700.00	2,694.02	2,969.17	2,873.15	9.65	15.85	-158.94	1,604.79	160.61	1,761.72	1,737.06	24.66	71.444			
2,800.00	2,793.70	3,042.19	2,941.71	10.03	16.36	-159.80	1,600.07	135.96	1,760.30	1,734.73	25.57	68.831			
2,870.81	2,864.28	3,108.43	3,003.74	10.30	16.84	-160.59	1,596.19	113.03	1,760.12	1,733.78	26.34	66.831			
2,900.00	2,893.38	3,136.08	3,029.70	10.41	17.04	-160.92	1,594.56	103.67	1,760.15	1,733.50	26.65	66.038			
3,000.00	2,993.05	3,233.53	3,121.11	10.80	17.74	-162.07	1,588.65	70.39	1,760.60	1,732.84	27.76	63.433			
3,100.00	3,092.73	3,326.85	3,208.62	11.18	18.41	-163.18	1,582.90	38.50	1,761.70	1,732.87	28.83	61.103			
3,200.00	3,192.41	3,426.57	3,301.72	11.56	19.14	-164.39	1,576.53	3.37	1,763.35	1,733.38	29.97	58.837			
3,300.00	3,292.08	3,523.76	3,392.48	11.94	19.86	-165.57	1,570.11	-30.81	1,765.59	1,734.49	31.09	56.782			
3,400.00	3,391.76	3,643.44	3,504.09	12.33	20.75	-167.03	1,560.84	-72.99	1,767.53	1,735.14	32.39	54.578			
3,500.00	3,491.43	3,739.36	3,593.38	12.71	21.48	-168.20	1,552.69	-107.08	1,769.62	1,736.11	33.51	52.813			
3,600.00	3,591.11	3,838.43	3,685.66	13.09	22.23	-169.40	1,544.19	-142.14	1,772.44	1,737.79	34.65	51.154			
3,700.00	3,690.79	3,945.31	3,785.30	13.48	23.03	-170.68	1,534.20	-179.45	1,775.27	1,739.43	35.84	49.532			
3,800.00	3,790.46	4,053.39	3,886.38	13.86	23.82	-171.95	1,523.55	-216.20	1,778.31	1,741.29	37.02	48.037			
3,900.00	3,890.14	4,164.61	3,991.47	14.25	24.59	-173.14	1,511.92	-250.69	1,781.05	1,742.89	38.17	46.663			
4,000.00	3,989.82	4,238.45	4,061.48	14.63	25.10	-173.91	1,504.27	-272.86	1,784.38	1,745.32	39.06	45.681			
4,100.00	4,089.49	4,318.03	4,136.33	15.01	25.66	-174.79	1,496.79	-298.84	1,789.60	1,749.60	40.00	44.741			
4,200.00	4,189.17	4,406.17	4,219.22	15.40	26.30	-175.77	1,488.64	-327.67	1,795.68	1,754.67	41.00	43.792			
4,300.00	4,288.84	4,484.38	4,292.60	15.78	26.86	-176.65	1,481.86	-353.88	1,803.12	1,761.19	41.93	42.999			
4,400.00	4,388.52	4,567.82	4,370.52	16.17	27.49	-177.61	1,474.94	-382.92	1,811.89	1,768.98	42.91	42.226			
4,500.00	4,488.20	4,665.19	4,461.55	16.55	28.21	-178.71	1,467.05	-416.57	1,821.48	1,777.49	43.99	41.404			
4,600.00	4,587.87	4,760.31	4,550.11	16.94	28.93	-179.80	1,458.88	-450.30	1,831.59	1,786.53	45.06	40.645			
4,700.00	4,687.55	4,856.61	4,639.28	17.32	29.69	-179.06	1,450.14	-485.59	1,842.34	1,796.19	46.16	39.916			
4,800.00	4,787.23	4,978.51	4,752.66	17.71	30.61	177.68	1,438.32	-528.74	1,852.91	1,805.47	47.44	39.060			
4,900.00	4,886.90	5,083.14	4,850.81	18.09	31.38	176.57	1,427.68	-563.40	1,862.98	1,814.45	48.54	38.382			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft	
Survey Program:		16-OWSG (Rev2) MWD			Semi Major Axis				Rule Assigned:				Offset Well Error:		0.00 usft
Measured Reference	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor			
5,000.00	4,986.58	5,175.82	4,938.10	18.48	32.03	175.62	1,418.53	-593.18	1,873.60	1,824.08	49.52	37.837			
5,100.00	5,086.26	5,266.10	5,023.71	18.86	32.65	174.76	1,410.31	-620.62	1,884.81	1,834.35	50.45	37.357			
5,200.00	5,185.93	5,343.30	5,096.93	19.25	33.18	174.04	1,403.65	-644.17	1,896.99	1,845.71	51.28	36.993			
5,300.00	5,285.61	5,418.00	5,167.49	19.63	33.70	173.33	1,398.02	-668.02	1,911.05	1,858.97	52.08	36.693			
5,400.00	5,385.28	5,489.00	5,234.27	20.02	34.21	172.64	1,393.10	-691.62	1,926.64	1,873.79	52.85	36.452			
5,500.00	5,484.96	5,627.24	5,365.00	20.40	35.17	171.37	1,383.12	-735.37	1,941.98	1,887.81	54.16	35.855			
5,600.00	5,584.64	5,714.64	5,447.86	20.79	35.77	170.59	1,376.17	-762.30	1,956.77	1,901.73	55.04	35.554			
5,700.00	5,684.31	5,803.48	5,531.38	21.17	36.40	169.75	1,368.42	-791.57	1,972.33	1,916.39	55.94	35.255			
5,800.00	5,783.99	7,996.76	6,936.68	21.56	46.04	-163.88	1,219.31	108.49	1,969.92	1,912.54	57.38	34.329			
5,900.00	5,883.67	7,999.71	6,936.70	21.94	46.08	-163.78	1,219.31	111.44	1,920.06	1,861.03	59.03	32.527			
6,000.00	5,983.34	8,002.82	6,936.73	22.33	46.12	-163.68	1,219.31	114.54	1,874.20	1,813.54	60.66	30.896			
6,100.00	6,083.02	8,006.09	6,936.77	22.71	46.16	-163.56	1,219.31	117.82	1,832.65	1,770.40	62.26	29.438			
6,200.00	6,182.69	8,009.54	6,936.80	23.10	46.20	-163.45	1,219.31	121.27	1,795.71	1,731.92	63.79	28.151			
6,300.00	6,282.37	8,013.20	6,936.85	23.48	46.24	-163.32	1,219.31	124.92	1,763.67	1,698.43	65.24	27.035			
6,400.00	6,382.05	8,017.06	6,936.90	23.87	46.29	-163.19	1,219.31	128.79	1,736.79	1,670.21	66.57	26.088			
6,500.00	6,481.72	8,021.16	6,936.96	24.25	46.34	-163.05	1,219.30	132.89	1,715.32	1,647.54	67.77	25.310			
6,600.00	6,581.40	8,025.52	6,937.03	24.64	46.40	-162.90	1,219.29	137.25	1,699.46	1,630.64	68.81	24.697			
6,688.27	6,669.38	8,029.60	6,937.10	24.98	46.45	-162.77	1,219.28	141.33	1,690.25	1,620.67	69.58	24.293			
6,700.00	6,681.08	8,030.02	6,937.10	25.02	46.45	-177.36	1,219.28	141.75	1,689.37	1,619.70	69.67	24.249			
6,750.00	6,730.87	8,028.70	6,937.08	25.21	46.44	133.20	1,219.28	140.43	1,686.55	1,616.58	69.97	24.105			
6,800.00	6,780.30	8,022.16	6,936.98	25.38	46.36	114.94	1,219.30	133.89	1,685.26	1,615.12	70.14	24.027			
6,818.33	6,798.26	8,018.42	6,936.92	25.44	46.31	111.39	1,219.31	130.14	1,685.16	1,614.99	70.17	24.016 CC, ES			
6,850.00	6,828.99	8,010.20	6,936.81	25.54	46.21	106.98	1,219.31	121.92	1,685.45	1,615.27	70.18	24.016 SF			
6,900.00	6,876.56	7,992.63	6,936.64	25.69	45.99	102.29	1,219.30	104.36	1,687.02	1,616.93	70.09	24.068			
6,950.00	6,922.66	7,973.10	6,936.51	25.83	45.77	98.99	1,219.26	84.83	1,689.85	1,619.91	69.95	24.159			
7,000.00	6,966.93	7,950.67	6,936.31	25.96	45.52	96.32	1,219.22	62.40	1,693.79	1,624.06	69.72	24.293			
7,050.00	7,009.04	7,924.71	6,936.01	26.08	45.23	93.96	1,219.16	36.44	1,698.65	1,629.22	69.43	24.466			
7,100.00	7,048.66	7,895.70	6,935.58	26.19	44.91	91.79	1,219.11	7.43	1,704.23	1,635.15	69.07	24.672			
7,150.00	7,085.51	7,859.62	6,934.96	26.30	44.56	89.65	1,219.01	-28.64	1,710.27	1,641.57	68.70	24.896			
7,200.00	7,119.28	7,820.19	6,934.23	26.39	44.18	87.64	1,218.82	-68.06	1,716.48	1,648.18	68.30	25.132			
7,250.00	7,149.73	7,768.19	6,933.35	26.49	43.72	85.59	1,218.39	-120.05	1,722.58	1,654.70	67.88	25.376			
7,300.00	7,176.63	7,702.00	6,933.47	26.60	43.18	83.60	1,217.19	-186.23	1,727.88	1,660.41	67.47	25.609			
7,350.00	7,199.77	7,669.73	6,933.13	26.76	42.95	82.42	1,216.42	-218.49	1,732.53	1,665.22	67.31	25.738			
7,400.00	7,218.98	7,638.78	6,931.35	26.99	42.74	81.37	1,215.71	-249.38	1,736.89	1,669.67	67.21	25.841			
7,450.00	7,234.10	7,606.00	6,927.91	27.33	42.52	80.43	1,214.97	-281.96	1,740.86	1,673.70	67.16	25.921			
7,500.00	7,245.03	7,581.18	6,924.39	27.75	42.37	79.72	1,214.50	-306.53	1,744.43	1,677.23	67.21	25.957			
7,550.00	7,251.68	7,554.49	6,919.90	28.25	42.21	79.10	1,214.16	-332.83	1,747.60	1,680.30	67.31	25.964			
7,600.00	7,254.00	7,530.00	6,915.12	28.79	42.07	78.63	1,214.02	-356.85	1,750.31	1,682.83	67.48	25.938			
7,601.67	7,254.00	7,530.00	6,915.12	28.81	42.07	78.62	1,214.02	-356.85	1,750.40	1,682.91	67.49	25.936			
7,700.00	7,254.00	7,469.79	6,900.52	30.03	41.78	78.16	1,214.16	-415.25	1,756.42	1,688.44	67.97	25.841			
7,800.00	7,254.00	7,412.61	6,882.31	31.47	41.53	77.58	1,214.57	-469.44	1,765.00	1,696.43	68.57	25.739			
7,900.00	7,254.00	7,358.14	6,861.05	33.06	41.35	76.91	1,215.14	-519.56	1,776.24	1,706.93	69.31	25.626			
8,000.00	7,254.00	7,321.00	6,844.38	34.80	41.23	76.39	1,215.61	-552.74	1,790.43	1,720.33	70.10	25.542			
8,100.00	7,254.00	7,255.51	6,811.49	36.66	41.09	75.37	1,216.68	-609.36	1,807.35	1,736.40	70.94	25.476			
8,200.00	7,254.00	7,225.00	6,794.87	38.62	41.03	74.86	1,217.30	-634.93	1,827.54	1,755.76	71.78	25.460			
8,300.00	7,254.00	7,160.81	6,756.72	40.66	40.96	73.70	1,218.51	-686.51	1,850.51	1,777.88	72.64	25.477			
8,400.00	7,254.00	7,130.00	6,736.83	42.78	40.93	73.10	1,218.95	-710.03	1,876.93	1,803.50	73.43	25.562			
8,500.00	7,254.00	7,071.45	6,696.55	44.97	40.92	71.89	1,219.38	-752.50	1,906.32	1,832.14	74.18	25.699			
8,600.00	7,254.00	7,035.00	6,669.99	47.21	40.91	71.09	1,219.30	-777.46	1,938.95	1,864.09	74.86	25.902			
8,700.00	7,254.00	7,003.05	6,645.90	49.50	40.92	70.38	1,219.23	-798.45	1,974.95	1,899.47	75.49	26.163			
8,800.00	7,254.00	6,976.17	6,625.14	51.83	40.92	69.77	1,219.35	-815.53	2,014.40	1,938.34	76.06	26.486			
8,900.00	7,254.00	6,940.00	6,596.53	54.20	40.93	68.95	1,219.79	-837.65	2,057.23	1,980.68	76.55	26.875			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,000.00	7,254.00	6,940.00	6,596.53	56.60	40.93	68.95	1,219.79	-837.65	2,103.20	2,026.18	77.03	27.305		
9,100.00	7,254.00	6,940.00	6,596.53	59.03	40.93	68.95	1,219.79	-837.65	2,152.84	2,075.40	77.44	27.802		
9,200.00	7,254.00	6,940.00	6,596.53	61.48	40.93	68.95	1,219.79	-837.65	2,205.89	2,128.11	77.78	28.359		
9,300.00	7,254.00	6,890.68	6,556.14	63.95	40.96	67.81	1,221.64	-865.86	2,259.82	2,181.72	78.09	28.937		
9,400.00	7,254.00	6,844.00	6,516.45	66.44	40.98	66.74	1,225.30	-890.15	2,318.82	2,240.46	78.35	29.595		
9,500.00	7,254.00	6,844.00	6,516.45	68.96	40.98	66.74	1,225.30	-890.15	2,378.59	2,299.99	78.60	30.263		
9,600.00	7,254.00	6,844.00	6,516.45	71.48	40.98	66.74	1,225.30	-890.15	2,440.99	2,362.19	78.81	30.975		
9,700.00	7,254.00	6,844.00	6,516.45	74.02	40.98	66.74	1,225.30	-890.15	2,505.84	2,426.85	78.98	31.727		
9,800.00	7,254.00	6,844.00	6,516.45	76.57	40.98	66.74	1,225.30	-890.15	2,572.93	2,493.80	79.13	32.515		
9,900.00	7,254.00	6,844.00	6,516.45	79.14	40.98	66.74	1,225.30	-890.15	2,642.11	2,562.85	79.25	33.337		
10,000.00	7,254.00	6,844.00	6,516.45	81.71	40.98	66.74	1,225.30	-890.15	2,713.21	2,633.85	79.36	34.189		
10,100.00	7,254.00	6,844.00	6,516.45	84.29	40.98	66.74	1,225.30	-890.15	2,786.09	2,706.64	79.45	35.068		
10,200.00	7,254.00	6,798.13	6,476.22	86.88	41.00	65.69	1,230.56	-911.53	2,858.65	2,779.06	79.59	35.916		
10,300.00	7,254.00	6,790.10	6,469.06	89.48	41.01	65.51	1,231.63	-915.00	2,933.94	2,854.27	79.68	36.823		
10,400.00	7,254.00	6,749.00	6,431.92	92.09	41.03	64.58	1,237.81	-931.47	3,011.60	2,931.80	79.80	37.741		
10,500.00	7,254.00	6,749.00	6,431.92	94.70	41.03	64.58	1,237.81	-931.47	3,089.05	3,009.19	79.86	38.681		
10,600.00	7,254.00	6,749.00	6,431.92	97.32	41.03	64.58	1,237.81	-931.47	3,167.77	3,087.86	79.92	39.639		
10,700.00	7,254.00	6,749.00	6,431.92	99.95	41.03	64.58	1,237.81	-931.47	3,247.66	3,167.70	79.96	40.614		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 8C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program:		16-OWSG (Rev2) MWD						Rule Assigned:					Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	6.00	6.00	0.00	0.00	24.27	1,761.40	794.07	1,932.11					
100.00	100.00	99.35	99.35	0.14	0.30	24.26	1,761.62	793.92	1,932.27	1,931.83	0.44	4,366.715		
200.00	200.00	215.48	215.48	0.50	0.71	24.23	1,762.10	793.09	1,932.38	1,931.16	1.21	1,591.314		
300.00	300.00	418.39	418.18	0.86	1.44	24.08	1,758.24	785.70	1,929.07	1,926.77	2.30	837.174		
400.00	400.00	518.60	518.09	1.22	1.81	23.93	1,754.73	778.70	1,923.02	1,920.00	3.02	636.302		
500.00	500.00	654.60	653.45	1.58	2.34	23.64	1,750.71	766.26	1,916.74	1,912.86	3.89	493.273		
600.00	600.00	919.45	915.10	1.94	3.46	22.88	1,731.36	730.74	1,904.51	1,899.24	5.27	361.592		
700.00	700.00	1,135.06	1,124.91	2.29	4.51	22.06	1,703.22	690.07	1,884.84	1,878.36	6.48	290.941		
800.00	799.98	1,310.07	1,293.32	2.64	5.46	-141.64	1,673.00	653.34	1,862.31	1,854.78	7.53	247.480		
900.00	899.84	1,397.12	1,376.71	2.97	5.96	-142.37	1,656.63	634.46	1,840.69	1,832.47	8.22	223.832		
930.56	930.31	1,427.11	1,405.42	3.07	6.13	-142.63	1,650.99	627.90	1,834.64	1,826.19	8.45	217.069		
1,000.00	999.53	1,493.13	1,468.64	3.31	6.52	-143.02	1,638.52	613.53	1,821.23	1,812.25	8.98	202.802		
1,100.00	1,099.20	1,576.00	1,548.08	3.66	7.00	-143.53	1,623.19	595.59	1,802.48	1,792.77	9.71	185.696		
1,200.00	1,198.88	1,666.67	1,635.08	4.02	7.53	-144.10	1,606.97	575.87	1,784.44	1,773.97	10.48	170.333		
1,300.00	1,298.56	1,789.46	1,752.62	4.38	8.27	-144.91	1,584.67	548.21	1,766.09	1,754.71	11.39	155.085		
1,400.00	1,398.23	1,884.32	1,843.07	4.75	8.85	-145.59	1,567.02	525.76	1,747.17	1,734.97	12.21	143.130		
1,500.00	1,497.91	2,048.98	1,998.87	5.12	9.93	-146.90	1,535.04	483.25	1,727.22	1,713.87	13.34	129.447		
1,600.00	1,597.58	2,226.66	2,162.59	5.49	11.25	-148.67	1,495.48	426.78	1,702.66	1,688.04	14.63	116.418		
1,700.00	1,697.26	2,335.16	2,260.53	5.86	12.13	-149.93	1,469.50	387.98	1,675.88	1,660.21	15.66	106.983		
1,800.00	1,796.94	2,432.54	2,348.41	6.23	12.93	-151.08	1,445.76	353.41	1,649.45	1,632.77	16.68	98.908		
1,900.00	1,896.61	2,532.85	2,438.87	6.61	13.77	-152.30	1,420.67	318.05	1,623.13	1,605.40	17.72	91.595		
2,000.00	1,996.29	2,621.15	2,518.63	6.99	14.50	-153.37	1,398.14	287.61	1,597.18	1,578.46	18.72	85.326		
2,100.00	2,095.97	2,706.93	2,598.57	7.37	15.19	-154.40	1,376.23	259.26	1,572.21	1,552.50	19.71	79.786		
2,200.00	2,195.64	2,794.25	2,676.30	7.75	15.89	-155.43	1,353.94	231.51	1,548.14	1,527.44	20.70	74.774		
2,300.00	2,295.32	2,899.83	2,772.96	8.12	16.74	-156.68	1,326.82	198.81	1,524.72	1,502.92	21.80	69.943		
2,400.00	2,394.99	2,996.32	2,860.50	8.51	17.52	-157.92	1,301.22	167.30	1,500.74	1,477.86	22.88	65.597		
2,500.00	2,494.67	3,077.67	2,934.70	8.89	18.18	-158.95	1,279.91	141.68	1,477.96	1,454.06	23.90	61.834		
2,600.00	2,594.35	3,159.58	3,009.93	9.27	18.83	-159.97	1,258.81	117.10	1,456.49	1,431.56	24.93	58.425		
2,700.00	2,694.02	3,241.59	3,085.77	9.65	19.46	-160.97	1,238.15	93.73	1,436.36	1,410.42	25.94	55.366		
2,800.00	2,793.70	3,323.00	3,161.62	10.03	20.06	-161.92	1,218.06	72.01	1,417.53	1,390.59	26.94	52.617		
2,900.00	2,893.38	3,415.42	3,248.20	10.41	20.71	-162.97	1,195.61	48.72	1,399.71	1,371.75	27.96	50.056		
3,000.00	2,993.05	3,506.12	3,333.44	10.80	21.34	-163.98	1,173.80	26.71	1,382.70	1,353.72	28.99	47.702		
3,100.00	3,092.73	3,598.48	3,420.29	11.18	21.99	-165.04	1,151.80	4.26	1,366.43	1,336.41	30.02	45.512		
3,200.00	3,192.41	3,718.48	3,531.89	11.56	22.87	-166.60	1,122.41	-28.53	1,350.03	1,318.78	31.24	43.210		
3,300.00	3,292.08	3,789.92	3,597.55	11.94	23.44	-167.67	1,104.95	-50.61	1,334.31	1,301.99	32.33	41.276		
3,400.00	3,391.76	3,886.12	3,685.58	12.33	24.22	-169.19	1,081.90	-81.82	1,320.03	1,286.45	33.57	39.317		
3,500.00	3,491.43	3,982.84	3,773.94	12.71	25.01	-170.75	1,058.31	-113.28	1,306.33	1,271.48	34.84	37.492		
3,600.00	3,591.11	4,062.27	3,846.68	13.09	25.65	-172.04	1,039.17	-138.83	1,293.90	1,257.88	36.01	35.928		
3,700.00	3,690.79	4,147.15	3,925.04	13.48	26.30	-173.38	1,019.63	-164.94	1,283.33	1,246.14	37.19	34.506		
3,800.00	3,790.46	4,228.56	4,000.90	13.86	26.91	-174.60	1,001.58	-188.30	1,274.25	1,235.92	38.32	33.251		
3,900.00	3,890.14	4,313.84	4,080.40	14.25	27.55	-175.90	983.57	-213.37	1,267.11	1,227.63	39.48	32.092		
4,000.00	3,989.82	4,405.96	4,165.41	14.63	28.27	-177.44	963.68	-242.78	1,260.96	1,220.23	40.73	30.958		
4,100.00	4,089.49	4,490.86	4,243.38	15.01	28.94	-178.91	945.58	-271.04	1,256.41	1,214.46	41.95	29.949		
4,200.00	4,189.17	4,583.61	4,328.86	15.40	29.68	-179.50	926.21	-301.39	1,253.27	1,210.05	43.22	28.997		
4,300.00	4,288.84	4,686.38	4,423.55	15.78	30.49	-177.74	904.42	-334.88	1,250.94	1,206.38	44.56	28.071		
4,400.00	4,388.52	4,790.45	4,519.03	16.17	31.32	-175.92	880.97	-368.99	1,248.58	1,202.66	45.92	27.189		
4,500.00	4,488.20	4,882.70	4,603.80	16.55	32.06	-174.31	860.17	-398.84	1,247.27	1,200.09	47.18	26.437		
4,594.91	4,582.80	4,974.44	4,688.24	16.92	32.79	-172.73	839.43	-428.12	1,246.89	1,198.51	48.39	25.770		
4,600.00	4,587.87	4,979.36	4,692.78	16.94	32.82	-172.65	838.32	-429.67	1,246.90	1,198.45	48.45	25.736		
4,700.00	4,687.55	5,075.26	4,781.40	17.32	33.57	-171.04	816.75	-459.28	1,247.34	1,197.65	49.69	25.102		
4,800.00	4,787.23	5,168.94	4,867.89	17.71	34.30	-169.46	795.50	-488.34	1,248.76	1,197.85	50.90	24.533		
4,900.00	4,886.90	5,258.83	4,951.24	18.09	35.00	-168.00	775.53	-515.41	1,251.23	1,199.17	52.06	24.034		

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 8C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft	
Survey Program: 16-OWSG (Rev2) MWD									Rule Assigned:				Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,000.00	4,986.58	5,345.23	5,031.12	18.48	35.66	166.56	756.51	-542.28	1,255.33	1,202.15	53.18	23.607			
5,100.00	5,086.26	5,449.50	5,128.11	18.86	36.44	164.91	734.09	-573.30	1,260.23	1,205.83	54.40	23.166			
5,200.00	5,185.93	5,551.74	5,224.48	19.25	37.16	163.46	713.14	-600.26	1,265.10	1,209.56	55.54	22.779			
5,300.00	5,285.61	5,654.78	5,322.11	19.63	37.85	162.08	692.71	-626.10	1,270.58	1,213.95	56.63	22.436			
5,400.00	5,385.28	5,766.37	5,428.88	20.02	38.55	160.74	671.28	-650.44	1,275.34	1,217.61	57.73	22.093			
5,500.00	5,484.96	5,895.66	5,552.85	20.40	39.33	159.27	645.63	-676.61	1,279.34	1,220.47	58.87	21.732			
5,600.00	5,584.64	5,967.99	5,622.82	20.79	39.73	158.54	632.35	-689.27	1,283.23	1,223.57	59.66	21.508			
5,700.00	5,684.31	6,039.99	5,692.86	21.17	40.11	157.90	621.11	-701.55	1,289.33	1,228.93	60.41	21.343			
5,800.00	5,783.99	6,129.45	5,780.23	21.56	40.57	157.16	609.31	-716.77	1,297.47	1,236.25	61.22	21.194			
5,900.00	5,883.67	6,229.85	5,878.68	21.94	41.04	156.43	596.96	-731.99	1,305.37	1,243.32	62.05	21.036			
6,000.00	5,983.34	6,316.47	5,964.23	22.33	41.40	155.96	588.92	-742.98	1,314.09	1,251.33	62.76	20.938			
6,100.00	6,083.02	6,405.79	6,052.93	22.71	41.72	155.64	583.78	-752.02	1,323.82	1,260.39	63.43	20.872			
6,200.00	6,182.69	6,513.69	6,160.52	23.10	42.03	155.47	580.96	-759.56	1,333.86	1,269.74	64.12	20.804			
6,300.00	6,282.37	6,639.56	6,286.32	23.48	42.33	155.50	579.61	-763.13	1,342.26	1,277.45	64.81	20.712			
6,400.00	6,382.05	6,139.53	7,260.01	23.87	43.81	-165.29	570.15	104.43	1,326.06	1,271.97	54.09	24.515			
6,500.00	6,481.72	8,140.81	7,260.01	24.25	43.81	-165.23	570.19	105.70	1,268.88	1,212.65	56.24	22.563			
6,600.00	6,581.40	8,142.09	7,260.01	24.64	43.82	-165.16	570.23	106.98	1,217.25	1,158.87	58.38	20.850			
6,688.27	6,669.38	8,143.23	7,260.00	24.98	43.83	-165.09	570.27	108.13	1,176.86	1,116.64	60.22	19.543			
6,700.00	6,681.08	8,143.31	7,260.00	25.02	43.83	-179.24	570.27	108.20	1,171.88	1,111.43	60.46	19.384			
6,750.00	6,730.87	8,141.84	7,260.01	25.21	43.82	133.21	570.22	106.73	1,151.74	1,090.33	61.41	18.754			
6,800.00	6,780.30	8,137.47	7,260.02	25.38	43.80	116.76	570.08	102.36	1,133.48	1,071.21	62.27	18.203			
6,850.00	6,828.99	8,130.21	7,260.04	25.54	43.76	110.55	569.87	95.11	1,117.29	1,054.28	63.01	17.732			
6,900.00	6,876.56	8,120.10	7,260.07	25.69	43.71	107.53	569.61	85.00	1,103.30	1,039.68	63.62	17.342			
6,950.00	6,922.66	8,107.19	7,260.14	25.83	43.65	105.69	569.35	72.10	1,091.59	1,027.49	64.10	17.030			
7,000.00	6,966.93	8,083.00	7,260.31	25.96	43.53	103.92	569.05	47.91	1,082.23	1,017.79	64.44	16.796			
7,050.00	7,009.04	8,067.28	7,260.34	26.08	43.47	102.83	568.96	32.19	1,074.98	1,010.32	64.66	16.624			
7,100.00	7,048.66	8,035.59	7,259.70	26.19	43.34	101.16	568.86	0.50	1,069.68	1,004.89	64.79	16.509			
7,150.00	7,085.51	8,002.71	7,258.08	26.30	43.23	99.53	568.90	-32.34	1,066.10	1,001.25	64.85	16.440			
7,200.00	7,119.28	7,971.29	7,255.55	26.39	43.14	98.01	569.10	-63.65	1,064.09	999.26	64.83	16.413 SF			
7,240.76	7,144.37	7,947.08	7,252.66	26.47	43.07	96.82	569.46	-87.69	1,063.60	998.83	64.77	16.421 CC, ES			
7,250.00	7,149.73	7,941.59	7,251.89	26.49	43.06	96.56	569.57	-93.12	1,063.62	998.87	64.75	16.427			
7,300.00	7,176.63	7,911.91	7,246.97	26.60	42.98	95.09	570.34	-122.37	1,064.58	999.97	64.61	16.477			
7,350.00	7,199.77	7,879.88	7,240.27	26.76	42.91	93.54	571.47	-153.67	1,066.82	1,002.35	64.46	16.549			
7,400.00	7,218.98	7,843.63	7,231.23	26.99	42.84	91.87	572.93	-188.75	1,070.01	1,005.66	64.35	16.628			
7,450.00	7,234.10	7,807.31	7,220.69	27.33	42.77	90.24	574.53	-223.47	1,073.94	1,009.71	64.23	16.720			
7,500.00	7,245.03	7,765.93	7,206.89	27.75	42.72	88.54	576.42	-262.42	1,078.37	1,014.18	64.19	16.799			
7,550.00	7,251.68	7,722.95	7,190.48	28.25	42.68	86.89	578.24	-302.10	1,082.95	1,018.76	64.20	16.870			
7,600.00	7,254.00	7,677.88	7,170.96	28.79	42.64	85.30	579.93	-342.68	1,087.51	1,023.25	64.26	16.924			
7,601.67	7,254.00	7,676.32	7,170.24	28.81	42.64	85.25	579.98	-344.06	1,087.66	1,023.40	64.26	16.926			
7,700.00	7,254.00	7,589.56	7,124.69	30.03	42.61	82.87	581.93	-417.79	1,097.33	1,032.94	64.40	17.040			
7,800.00	7,254.00	7,511.00	7,074.97	31.47	42.62	80.30	581.79	-478.55	1,109.90	1,045.50	64.40	17.235			
7,900.00	7,254.00	7,444.03	7,027.92	33.06	42.64	77.89	580.44	-526.18	1,126.48	1,062.20	64.28	17.525			
8,000.00	7,254.00	7,390.98	6,988.66	34.80	42.67	75.90	578.93	-561.81	1,147.86	1,083.79	64.07	17.916			
8,100.00	7,254.00	7,348.39	6,955.75	36.66	42.70	74.26	577.75	-588.82	1,174.80	1,110.98	63.82	18.408			
8,200.00	7,254.00	7,321.00	6,933.97	38.62	42.72	73.19	577.03	-605.40	1,207.46	1,143.87	63.59	18.989			
8,300.00	7,254.00	7,285.43	6,904.83	40.66	42.74	71.77	576.27	-625.78	1,245.73	1,182.41	63.33	19.672			
8,400.00	7,254.00	7,261.28	6,884.46	42.78	42.76	70.79	575.94	-638.74	1,289.61	1,226.47	63.13	20.427			
8,500.00	7,254.00	7,226.00	6,853.91	44.97	42.78	69.36	575.71	-656.39	1,338.79	1,275.90	62.89	21.288			
8,600.00	7,254.00	7,226.00	6,853.91	47.21	42.78	69.36	575.71	-656.39	1,392.41	1,329.45	62.96	22.117			
8,700.00	7,254.00	7,192.30	6,824.09	49.50	42.80	67.99	575.69	-672.09	1,450.22	1,387.41	62.81	23.088			
8,800.00	7,254.00	7,168.78	6,803.05	51.83	42.81	67.03	575.74	-682.58	1,511.74	1,448.95	62.79	24.075			
8,900.00	7,254.00	7,130.00	6,767.92	54.20	42.83	65.48	575.95	-699.02	1,576.76	1,514.08	62.68	25.156			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ ENCORE 8C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,000.00	7,254.00	7,130.00	6,767.92	56.60	42.83	65.48	575.95	-699.02	1,644.41	1,581.45	62.96	26.119		
9,100.00	7,254.00	7,130.00	6,767.92	59.03	42.83	65.48	575.95	-699.02	1,715.23	1,651.97	63.26	27.114		
9,200.00	7,254.00	7,130.00	6,767.92	61.48	42.83	65.48	575.95	-699.02	1,788.83	1,725.26	63.57	28.138		
9,300.00	7,254.00	7,086.71	6,727.96	63.95	42.83	63.75	576.27	-715.63	1,863.39	1,799.86	63.53	29.332		
9,400.00	7,254.00	7,075.29	6,717.26	66.44	42.84	63.30	576.36	-719.63	1,940.72	1,876.95	63.77	30.435		
9,500.00	7,254.00	7,035.00	6,679.07	68.96	42.84	61.72	576.68	-732.45	2,020.57	1,956.82	63.75	31.695		
9,600.00	7,254.00	7,035.00	6,679.07	71.48	42.84	61.72	576.68	-732.45	2,100.93	2,036.84	64.10	32.777		
9,700.00	7,254.00	7,035.00	6,679.07	74.02	42.84	61.72	576.68	-732.45	2,182.92	2,118.49	64.43	33.880		
9,800.00	7,254.00	7,035.00	6,679.07	76.57	42.84	61.72	576.68	-732.45	2,266.36	2,201.61	64.75	35.002		
9,900.00	7,254.00	7,035.00	6,679.07	79.14	42.84	61.72	576.68	-732.45	2,351.09	2,286.04	65.05	36.142		
10,000.00	7,254.00	7,035.00	6,679.07	81.71	42.84	61.72	576.68	-732.45	2,436.97	2,371.64	65.34	37.299		
10,100.00	7,254.00	7,035.00	6,679.07	84.29	42.84	61.72	576.68	-732.45	2,523.90	2,458.29	65.61	38.470		
10,200.00	7,254.00	7,035.00	6,679.07	86.88	42.84	61.72	576.68	-732.45	2,611.76	2,545.90	65.86	39.656		
10,300.00	7,254.00	7,035.00	6,679.07	89.48	42.84	61.72	576.68	-732.45	2,700.47	2,634.37	66.10	40.854		
10,400.00	7,254.00	7,035.00	6,679.07	92.09	42.84	61.72	576.68	-732.45	2,789.94	2,723.61	66.33	42.063		
10,500.00	7,254.00	7,035.00	6,679.07	94.70	42.84	61.72	576.68	-732.45	2,880.10	2,813.56	66.54	43.283		
10,600.00	7,254.00	7,035.00	6,679.07	97.32	42.84	61.72	576.68	-732.45	2,970.89	2,904.15	66.74	44.513		
10,700.00	7,254.00	6,994.14	6,639.60	99.95	42.83	60.13	577.10	-742.98	3,060.56	2,993.83	66.73	45.868		
10,800.00	7,254.00	6,990.68	6,636.22	102.58	42.82	59.99	577.14	-743.73	3,152.15	3,085.25	66.90	47.118		
10,900.00	7,254.00	6,987.41	6,633.03	105.21	42.82	59.87	577.18	-744.43	3,244.22	3,177.16	67.07	48.374		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 13C-12HZ - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft		
Survey Program: 17-OWSG (Rev2) MWD										Rule Assigned:			Offset Well Error: 0.00 usft		
Reference				Offset				Semi Major Axis	Highside	Distance					Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S			+E/-W	Between	Between	Minimum	Separation	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor			
5,000.00	4,986.58	11,892.00	7,212.13	18.48	133.43	-4.00	-2,499.94	939.77	3,247.83	3,141.40	106.43	30.517			
5,100.00	5,086.26	11,892.00	7,212.13	18.86	133.43	-4.00	-2,499.94	939.77	3,173.46	3,065.02	108.44	29.265			
5,200.00	5,185.93	11,892.00	7,212.13	19.25	133.43	-4.00	-2,499.94	939.77	3,100.54	2,990.03	110.51	28.056			
5,300.00	5,285.61	11,892.00	7,212.13	19.63	133.43	-4.00	-2,499.94	939.77	3,029.16	2,916.53	112.64	26.893			
5,400.00	5,385.28	11,892.00	7,212.13	20.02	133.43	-4.00	-2,499.94	939.77	2,959.45	2,844.63	114.82	25.775			
5,500.00	5,484.96	11,892.00	7,212.13	20.40	133.43	-4.00	-2,499.94	939.77	2,891.51	2,774.46	117.05	24.704			
5,600.00	5,584.64	11,892.00	7,212.13	20.79	133.43	-4.00	-2,499.94	939.77	2,825.47	2,706.16	119.32	23.681			
5,700.00	5,684.31	11,892.00	7,212.13	21.17	133.43	-4.00	-2,499.94	939.77	2,761.48	2,639.86	121.62	22.706			
5,800.00	5,783.99	11,892.00	7,212.13	21.56	133.43	-4.00	-2,499.94	939.77	2,699.68	2,575.73	123.95	21.780			
5,900.00	5,883.67	11,892.00	7,212.13	21.94	133.43	-4.00	-2,499.94	939.77	2,640.22	2,513.92	126.30	20.905			
6,000.00	5,983.34	11,892.00	7,212.13	22.33	133.43	-4.00	-2,499.94	939.77	2,583.26	2,454.62	128.65	20.080			
6,100.00	6,083.02	11,892.00	7,212.13	22.71	133.43	-4.00	-2,499.94	939.77	2,528.98	2,397.99	130.98	19.308			
6,200.00	6,182.69	11,892.00	7,212.13	23.10	133.43	-4.00	-2,499.94	939.77	2,477.54	2,344.25	133.29	18.588			
6,300.00	6,282.37	11,892.00	7,212.13	23.48	133.43	-4.00	-2,499.94	939.77	2,429.13	2,293.58	135.55	17.921			
6,400.00	6,382.05	11,892.00	7,212.13	23.87	133.43	-4.00	-2,499.94	939.77	2,383.94	2,246.20	137.74	17.307			
6,500.00	6,481.72	11,892.00	7,212.13	24.25	133.43	-4.00	-2,499.94	939.77	2,342.15	2,202.31	139.84	16.749			
6,600.00	6,581.40	11,892.00	7,212.13	24.64	133.43	-4.00	-2,499.94	939.77	2,303.94	2,162.12	141.82	16.246			
6,688.27	6,669.38	11,892.00	7,212.13	24.98	133.43	-4.00	-2,499.94	939.77	2,273.34	2,129.90	143.45	15.848			
6,700.00	6,681.08	11,892.00	7,212.13	25.02	133.43	-19.08	-2,499.94	939.77	2,269.54	2,125.89	143.65	15.799			
6,750.00	6,730.87	11,892.00	7,212.13	25.21	133.43	-70.17	-2,499.94	939.77	2,254.91	2,110.47	144.44	15.611			
6,800.00	6,780.30	11,892.00	7,212.13	25.38	133.43	-89.47	-2,499.94	939.77	2,242.93	2,097.83	145.10	15.458			
6,850.00	6,828.99	11,892.00	7,212.13	25.54	133.43	-97.87	-2,499.94	939.77	2,233.73	2,088.13	145.60	15.341			
6,900.00	6,876.56	11,892.00	7,212.13	25.69	133.43	-102.41	-2,499.94	939.77	2,227.42	2,081.46	145.96	15.261			
6,950.00	6,922.66	11,892.00	7,212.13	25.83	133.43	-105.11	-2,499.94	939.77	2,224.07	2,077.91	146.16	15.217			
6,980.90	6,950.25	11,892.00	7,212.13	25.91	133.43	-106.22	-2,499.94	939.77	2,223.49	2,077.29	146.20	15.208 CC, ES, SF			
7,000.00	6,966.93	11,892.00	7,212.13	25.96	133.43	-106.74	-2,499.94	939.77	2,223.71	2,077.51	146.20	15.210			
7,050.00	7,009.04	11,892.00	7,212.13	26.08	133.43	-107.62	-2,499.94	939.77	2,226.36	2,080.26	146.10	15.239			
7,100.00	7,048.66	11,892.00	7,212.13	26.19	133.43	-107.94	-2,499.94	939.77	2,231.98	2,086.12	145.86	15.303			
7,150.00	7,085.51	11,892.00	7,212.13	26.30	133.43	-107.77	-2,499.94	939.77	2,240.51	2,095.02	145.49	15.400			
7,200.00	7,119.28	11,892.00	7,212.13	26.39	133.43	-107.18	-2,499.94	939.77	2,251.84	2,106.83	145.01	15.528			
7,250.00	7,149.73	11,892.00	7,212.13	26.49	133.43	-106.20	-2,499.94	939.77	2,265.86	2,121.41	144.45	15.686			
7,300.00	7,176.63	11,892.00	7,212.13	26.60	133.43	-104.86	-2,499.94	939.77	2,282.41	2,138.59	143.81	15.871			
7,350.00	7,199.77	11,892.00	7,212.13	26.76	133.43	-103.15	-2,499.94	939.77	2,301.30	2,158.18	143.12	16.080			
7,400.00	7,218.98	11,892.00	7,212.13	26.99	133.43	-101.11	-2,499.94	939.77	2,322.34	2,179.95	142.39	16.310			
7,450.00	7,234.10	11,892.00	7,212.13	27.33	133.43	-98.73	-2,499.94	939.77	2,345.32	2,203.68	141.63	16.559			
7,500.00	7,245.03	11,892.00	7,212.13	27.75	133.43	-96.04	-2,499.94	939.77	2,369.99	2,229.13	140.86	16.825			
7,550.00	7,251.68	11,892.00	7,212.13	28.25	133.43	-93.07	-2,499.94	939.77	2,396.14	2,256.05	140.09	17.104			
7,600.00	7,254.00	11,892.00	7,212.13	28.79	133.43	-89.83	-2,499.94	939.77	2,423.51	2,284.18	139.33	17.394			
7,601.67	7,254.00	11,892.00	7,212.13	28.81	133.43	-89.72	-2,499.94	939.77	2,424.44	2,285.14	139.30	17.404			
7,700.00	7,254.00	11,892.00	7,212.13	30.03	133.43	-89.72	-2,499.94	939.77	2,480.72	2,342.87	137.85	17.996			
7,800.00	7,254.00	11,892.00	7,212.13	31.47	133.43	-89.72	-2,499.94	939.77	2,540.57	2,404.15	136.43	18.622			
7,900.00	7,254.00	11,892.00	7,212.13	33.06	133.43	-89.72	-2,499.94	939.77	2,602.90	2,467.84	135.06	19.272			
8,000.00	7,254.00	11,892.00	7,212.13	34.80	133.43	-89.72	-2,499.94	939.77	2,667.51	2,533.78	133.74	19.946			
8,100.00	7,254.00	11,892.00	7,212.13	36.66	133.43	-89.72	-2,499.94	939.77	2,734.26	2,601.81	132.45	20.643			
8,200.00	7,254.00	11,892.00	7,212.13	38.62	133.43	-89.72	-2,499.94	939.77	2,802.99	2,671.78	131.21	21.363			
8,300.00	7,254.00	11,892.00	7,212.13	40.66	133.43	-89.72	-2,499.94	939.77	2,873.55	2,743.56	129.99	22.105			
8,400.00	7,254.00	11,892.00	7,212.13	42.78	133.43	-89.72	-2,499.94	939.77	2,945.82	2,817.01	128.81	22.869			
8,500.00	7,254.00	11,892.00	7,212.13	44.97	133.43	-89.72	-2,499.94	939.77	3,019.67	2,892.01	127.66	23.654			
8,600.00	7,254.00	11,892.00	7,212.13	47.21	133.43	-89.72	-2,499.94	939.77	3,094.99	2,968.44	126.54	24.458			
8,700.00	7,254.00	11,892.00	7,212.13	49.50	133.43	-89.72	-2,499.94	939.77	3,171.67	3,046.21	125.46	25.281			
8,800.00	7,254.00	11,892.00	7,212.13	51.83	133.43	-89.72	-2,499.94	939.77	3,249.62	3,125.22	124.40	26.122			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 33N-12HZ - Wellbore #1 - Wellbore #1											Offset Site Error:	0.00 usft	
Survey Program: 17-OWSG (Rev2) MWD								Rule Assigned:			Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,500.00	4,488.20	11,657.00	7,060.41	16.55	132.27	-9.46	-2,058.13	947.43	3,266.78	3,178.28	88.49	36.916	
4,600.00	4,587.87	11,657.00	7,060.41	16.94	132.27	-9.46	-2,058.13	947.43	3,182.97	3,092.81	90.15	35.306	
4,700.00	4,687.55	11,657.00	7,060.41	17.32	132.27	-9.46	-2,058.13	947.43	3,100.12	3,008.23	91.89	33.737	
4,800.00	4,787.23	11,657.00	7,060.41	17.71	132.27	-9.46	-2,058.13	947.43	3,018.32	2,924.62	93.70	32.212	
4,900.00	4,886.90	11,657.00	7,060.41	18.09	132.27	-9.46	-2,058.13	947.43	2,937.64	2,842.05	95.59	30.731	
5,000.00	4,986.58	11,657.00	7,060.41	18.48	132.27	-9.46	-2,058.13	947.43	2,858.18	2,760.62	97.56	29.297	
5,100.00	5,086.26	11,657.00	7,060.41	18.86	132.27	-9.46	-2,058.13	947.43	2,780.05	2,680.44	99.61	27.910	
5,200.00	5,185.93	11,657.00	7,060.41	19.25	132.27	-9.46	-2,058.13	947.43	2,703.36	2,601.62	101.73	26.573	
5,300.00	5,285.61	11,657.00	7,060.41	19.63	132.27	-9.46	-2,058.13	947.43	2,628.23	2,524.29	103.94	25.286	
5,400.00	5,385.28	11,657.00	7,060.41	20.02	132.27	-9.46	-2,058.13	947.43	2,554.82	2,448.59	106.23	24.050	
5,500.00	5,484.96	11,657.00	7,060.41	20.40	132.27	-9.46	-2,058.13	947.43	2,483.26	2,374.67	108.59	22.869	
5,600.00	5,584.64	11,657.00	7,060.41	20.79	132.27	-9.46	-2,058.13	947.43	2,413.72	2,302.70	111.01	21.742	
5,700.00	5,684.31	11,657.00	7,060.41	21.17	132.27	-9.46	-2,058.13	947.43	2,346.38	2,232.88	113.50	20.672	
5,800.00	5,783.99	11,657.00	7,060.41	21.56	132.27	-9.46	-2,058.13	947.43	2,281.44	2,165.40	116.04	19.661	
5,900.00	5,883.67	11,657.00	7,060.41	21.94	132.27	-9.46	-2,058.13	947.43	2,219.11	2,100.50	118.62	18.708	
6,000.00	5,983.34	11,657.00	7,060.41	22.33	132.27	-9.46	-2,058.13	947.43	2,159.61	2,038.40	121.21	17.817	
6,100.00	6,083.02	11,657.00	7,060.41	22.71	132.27	-9.46	-2,058.13	947.43	2,103.19	1,979.39	123.80	16.989	
6,200.00	6,182.69	11,657.00	7,060.41	23.10	132.27	-9.46	-2,058.13	947.43	2,050.09	1,923.73	126.36	16.224	
6,300.00	6,282.37	11,657.00	7,060.41	23.48	132.27	-9.46	-2,058.13	947.43	2,000.59	1,871.73	128.86	15.525	
6,400.00	6,382.05	11,657.00	7,060.41	23.87	132.27	-9.46	-2,058.13	947.43	1,954.95	1,823.68	131.26	14.893	
6,500.00	6,481.72	11,657.00	7,060.41	24.25	132.27	-9.46	-2,058.13	947.43	1,913.45	1,779.92	133.53	14.329	
6,600.00	6,581.40	11,657.00	7,060.41	24.64	132.27	-9.46	-2,058.13	947.43	1,876.37	1,740.74	135.63	13.835	
6,688.27	6,669.38	11,657.00	7,060.41	24.98	132.27	-9.46	-2,058.13	947.43	1,847.53	1,710.23	137.29	13.457	
6,700.00	6,681.08	11,657.00	7,060.41	25.02	132.27	-24.49	-2,058.13	947.43	1,844.03	1,706.53	137.50	13.411	
6,750.00	6,730.87	11,657.00	7,060.41	25.21	132.27	-75.36	-2,058.13	947.43	1,831.06	1,692.82	138.24	13.245	
6,800.00	6,780.30	11,657.00	7,060.41	25.38	132.27	-94.40	-2,058.13	947.43	1,821.38	1,682.60	138.78	13.124	
6,850.00	6,828.99	11,657.00	7,060.41	25.54	132.27	-102.49	-2,058.13	947.43	1,815.09	1,675.99	139.10	13.048	
6,900.00	6,876.56	11,657.00	7,060.41	25.69	132.27	-106.70	-2,058.13	947.43	1,812.30	1,673.09	139.20	13.019 SF	
6,914.70	6,890.28	11,657.00	7,060.41	25.73	132.27	-107.53	-2,058.13	947.43	1,812.14	1,672.96	139.19	13.019 CC, ES	
6,950.00	6,922.66	11,657.00	7,060.41	25.83	132.27	-109.03	-2,058.13	947.43	1,813.02	1,673.94	139.08	13.036	
7,000.00	6,966.93	11,657.00	7,060.41	25.96	132.27	-110.26	-2,058.13	947.43	1,817.27	1,678.52	138.74	13.098	
7,050.00	7,009.04	11,657.00	7,060.41	26.08	132.27	-110.70	-2,058.13	947.43	1,824.96	1,686.76	138.21	13.205	
7,100.00	7,048.66	11,657.00	7,060.41	26.19	132.27	-110.52	-2,058.13	947.43	1,836.02	1,698.53	137.49	13.354	
7,150.00	7,085.51	11,657.00	7,060.41	26.30	132.27	-109.81	-2,058.13	947.43	1,850.28	1,713.66	136.62	13.543	
7,200.00	7,119.28	11,657.00	7,060.41	26.39	132.27	-108.62	-2,058.13	947.43	1,867.58	1,731.96	135.62	13.771	
7,250.00	7,149.73	11,657.00	7,060.41	26.49	132.27	-106.98	-2,058.13	947.43	1,887.70	1,753.18	134.52	14.033	
7,300.00	7,176.63	11,657.00	7,060.41	26.60	132.27	-104.90	-2,058.13	947.43	1,910.39	1,777.05	133.34	14.327	
7,350.00	7,199.77	11,657.00	7,060.41	26.76	132.27	-102.38	-2,058.13	947.43	1,935.41	1,803.28	132.12	14.648	
7,400.00	7,218.98	11,657.00	7,060.41	26.99	132.27	-99.46	-2,058.13	947.43	1,962.47	1,831.58	130.88	14.994	
7,450.00	7,234.10	11,657.00	7,060.41	27.33	132.27	-96.14	-2,058.13	947.43	1,991.28	1,861.64	129.64	15.360	
7,500.00	7,245.03	11,657.00	7,060.41	27.75	132.27	-92.47	-2,058.13	947.43	2,021.57	1,893.16	128.41	15.743	
7,550.00	7,251.68	11,657.00	7,060.41	28.25	132.27	-88.49	-2,058.13	947.43	2,053.04	1,925.82	127.22	16.138	
7,600.00	7,254.00	11,657.00	7,060.41	28.79	132.27	-84.26	-2,058.13	947.43	2,085.39	1,959.33	126.06	16.543	
7,601.67	7,254.00	11,657.00	7,060.41	28.81	132.27	-84.12	-2,058.13	947.43	2,086.48	1,960.46	126.02	16.557	
7,700.00	7,254.00	11,657.00	7,060.41	30.03	132.27	-84.12	-2,058.13	947.43	2,152.13	2,028.28	123.86	17.376	
7,800.00	7,254.00	11,657.00	7,060.41	31.47	132.27	-84.12	-2,058.13	947.43	2,221.37	2,099.61	121.77	18.243	
7,900.00	7,254.00	11,657.00	7,060.41	33.06	132.27	-84.12	-2,058.13	947.43	2,292.88	2,173.10	119.79	19.141	
8,000.00	7,254.00	11,657.00	7,060.41	34.80	132.27	-84.12	-2,058.13	947.43	2,366.46	2,248.56	117.91	20.071	
8,100.00	7,254.00	11,657.00	7,060.41	36.66	132.27	-84.12	-2,058.13	947.43	2,441.92	2,325.80	116.12	21.029	
8,200.00	7,254.00	11,657.00	7,060.41	38.62	132.27	-84.12	-2,058.13	947.43	2,519.08	2,404.66	114.42	22.016	
8,300.00	7,254.00	11,657.00	7,060.41	40.66	132.27	-84.12	-2,058.13	947.43	2,597.81	2,485.00	112.81	23.028	
8,400.00	7,254.00	11,657.00	7,060.41	42.78	132.27	-84.12	-2,058.13	947.43	2,677.95	2,566.67	111.28	24.066	

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

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

<b>Offset Design:</b> SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 33N-12HZ - Wellbore #1 - Wellbore #1													<b>Offset Site Error:</b>	0.00 usft				
<b>Survey Program:</b> 17-OWSG (Rev2) MWD													<b>Offset Well Error:</b>	0.00 usft				
<b>Reference</b>				<b>Offset</b>			<b>Semi Major Axis</b>		<b>Highside</b>		<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>						
8,500.00	7,254.00	11,657.00	7,060.41	44.97	132.27	-84.12	-2,058.13	947.43	2,759.39	2,649.57	109.82	25.127						
8,600.00	7,254.00	11,657.00	7,060.41	47.21	132.27	-84.12	-2,058.13	947.43	2,842.02	2,733.58	108.44	26.209						
8,700.00	7,254.00	11,657.00	7,060.41	49.50	132.27	-84.12	-2,058.13	947.43	2,925.73	2,818.61	107.12	27.313						
8,800.00	7,254.00	11,657.00	7,060.41	51.83	132.27	-84.12	-2,058.13	947.43	3,010.43	2,904.56	105.87	28.435						
8,900.00	7,254.00	11,657.00	7,060.41	54.20	132.27	-84.12	-2,058.13	947.43	3,096.05	2,991.37	104.68	29.576						
9,000.00	7,254.00	11,657.00	7,060.41	56.60	132.27	-84.12	-2,058.13	947.43	3,182.50	3,078.95	103.55	30.734						
9,100.00	7,254.00	11,657.00	7,060.41	59.03	132.27	-84.12	-2,058.13	947.43	3,269.73	3,167.25	102.48	31.907						

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETRACK													Offset Site Error:	0.00 usft	
Survey Program:		16-OWSG (Rev2) MWD				Rule Assigned:							Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
4,000.00	3,989.82	13,562.92	7,212.85	14.63	174.43	143.50	-418.81	50.73	3,263.80	3,204.02	59.78	54.595			
4,100.00	4,089.49	13,558.12	7,212.87	15.01	174.30	144.71	-419.05	55.52	3,163.88	3,104.01	59.87	52.849			
4,200.00	4,189.17	13,553.45	7,212.89	15.40	174.18	145.96	-419.29	60.19	3,063.95	3,004.00	59.95	51.106			
4,300.00	4,288.84	13,548.91	7,212.91	15.78	174.06	147.25	-419.53	64.72	2,964.03	2,903.99	60.04	49.366			
4,400.00	4,388.52	13,544.49	7,212.92	16.17	173.94	148.58	-419.75	69.13	2,864.11	2,803.98	60.13	47.629			
4,500.00	4,488.20	13,540.19	7,212.94	16.55	173.82	149.96	-419.98	73.43	2,764.19	2,703.96	60.23	45.896			
4,600.00	4,587.87	13,536.00	7,212.95	16.94	173.71	151.38	-420.20	77.61	2,664.27	2,603.95	60.32	44.166			
4,700.00	4,687.55	13,531.92	7,212.96	17.32	173.60	152.85	-420.41	81.68	2,564.35	2,503.93	60.42	42.441			
4,800.00	4,787.23	13,527.95	7,212.96	17.71	173.49	154.37	-420.62	85.65	2,464.44	2,403.92	60.52	40.719			
4,900.00	4,886.90	13,524.08	7,212.97	18.09	173.39	155.93	-420.83	89.52	2,364.52	2,303.90	60.62	39.003			
5,000.00	4,986.58	13,520.30	7,212.97	18.48	173.29	157.53	-421.03	93.29	2,264.61	2,203.89	60.73	37.291			
5,100.00	5,086.26	13,516.61	7,212.98	18.86	173.19	159.18	-421.22	96.97	2,164.71	2,103.87	60.83	35.584			
5,200.00	5,185.93	13,513.02	7,212.98	19.25	173.09	160.87	-421.42	100.56	2,064.80	2,003.86	60.94	33.882			
5,300.00	5,285.61	13,509.51	7,212.98	19.63	173.00	162.61	-421.61	104.06	1,964.90	1,903.85	61.05	32.186			
5,400.00	5,385.28	13,507.00	7,212.98	20.02	172.93	163.90	-421.74	106.57	1,865.01	1,803.84	61.17	30.489			
5,500.00	5,484.96	13,507.00	7,212.98	20.40	172.93	163.90	-421.74	106.57	1,765.13	1,703.81	61.32	28.786			
5,600.00	5,584.64	13,501.25	7,212.97	20.79	172.78	167.04	-422.06	112.31	1,665.25	1,603.84	61.40	27.120			
5,700.00	5,684.31	13,498.67	7,212.97	21.17	172.71	168.52	-422.20	114.88	1,565.38	1,503.86	61.52	25.443			
5,800.00	5,783.99	13,496.07	7,212.97	21.56	172.64	170.07	-422.34	117.49	1,465.53	1,403.88	61.65	23.773			
5,900.00	5,883.67	13,493.43	7,212.97	21.94	172.57	171.69	-422.49	120.12	1,365.69	1,303.92	61.77	22.109			
6,000.00	5,983.34	13,490.77	7,212.97	22.33	172.49	173.38	-422.64	122.78	1,265.88	1,203.98	61.90	20.450			
6,100.00	6,083.02	13,488.08	7,212.98	22.71	172.42	175.14	-422.79	125.46	1,166.09	1,104.05	62.04	18.797			
6,200.00	6,182.69	13,485.35	7,212.98	23.10	172.35	176.97	-422.94	128.18	1,066.33	1,004.15	62.18	17.149			
6,300.00	6,282.37	13,482.60	7,212.98	23.48	172.27	178.87	-423.10	130.93	966.61	904.26	62.35	15.504			
6,400.00	6,382.05	13,479.82	7,212.98	23.87	172.20	-179.15	-423.26	133.71	866.95	804.40	62.55	13.861			
6,500.00	6,481.72	13,477.00	7,212.98	24.25	172.12	-177.09	-423.42	136.52	767.36	704.56	62.81	12.218			
6,600.00	6,581.40	13,474.16	7,212.99	24.64	172.05	-174.97	-423.58	139.36	667.89	604.71	63.18	10.571			
6,688.27	6,669.38	13,471.62	7,212.99	24.98	171.98	-173.03	-423.72	141.89	580.23	516.53	63.70	9.108			
6,700.00	6,681.08	13,471.40	7,212.99	25.02	171.97	-178.28	-423.74	142.12	568.59	504.80	63.79	8.913			
6,750.00	6,730.87	13,473.07	7,212.99	25.21	172.02	164.55	-423.64	140.45	519.08	454.79	64.29	8.074			
6,800.00	6,780.30	13,479.00	7,212.98	25.38	172.18	162.82	-423.30	134.53	470.06	405.03	65.02	7.229			
6,850.00	6,828.99	13,489.18	7,212.97	25.54	172.45	163.08	-422.73	124.36	421.92	355.82	66.10	6.383			
6,900.00	6,876.56	13,503.57	7,212.97	25.69	172.84	162.90	-421.93	109.99	375.12	307.41	67.71	5.540			
6,950.00	6,922.66	13,522.86	7,212.97	25.83	173.36	161.92	-420.89	90.73	330.08	259.93	70.15	4.706			
7,000.00	6,966.93	13,546.28	7,212.92	25.96	173.99	160.27	-419.66	67.35	287.21	213.40	73.82	3.891			
7,050.00	7,009.04	13,573.15	7,212.79	26.08	174.71	157.93	-418.30	40.50	246.99	167.67	79.32	3.114			
7,100.00	7,048.66	13,603.02	7,212.63	26.19	175.51	154.80	-416.79	10.68	210.02	122.48	87.53	2.399			
7,150.00	7,085.51	13,628.00	7,212.49	26.30	176.18	152.06	-415.53	-14.27	177.15	78.05	99.09	1.788			
7,200.00	7,119.28	13,628.00	7,212.49	26.39	176.18	152.96	-415.53	-14.27	155.13	43.98	111.14	1.396	Level 3		
7,235.03	7,140.98	13,628.00	7,212.49	26.46	176.18	152.96	-415.53	-14.27	150.22	33.48	116.74	1.287	Level 3, CC, ES		
7,250.00	7,149.73	13,628.00	7,212.49	26.49	176.18	152.81	-415.53	-14.27	151.12	33.49	117.63	1.285	Level 3, SF		
7,300.00	7,176.63	13,628.00	7,212.49	26.60	176.18	151.62	-415.53	-14.27	166.47	52.37	114.09	1.459	Level 3		
7,350.00	7,199.77	13,628.00	7,212.49	26.76	176.18	149.22	-415.53	-14.27	196.59	91.35	105.24	1.868			
7,400.00	7,218.98	13,628.00	7,212.49	26.99	176.18	145.16	-415.53	-14.27	235.71	139.41	96.31	2.448			
7,450.00	7,234.10	13,628.00	7,212.49	27.33	176.18	138.56	-415.53	-14.27	279.87	190.87	89.00	3.145			
7,500.00	7,245.03	13,628.00	7,212.49	27.75	176.18	127.83	-415.53	-14.27	326.75	243.45	83.30	3.923			
7,550.00	7,251.68	13,628.00	7,212.49	28.25	176.18	110.70	-415.53	-14.27	375.06	296.22	78.83	4.758			
7,600.00	7,254.00	13,628.00	7,212.49	28.79	176.18	86.98	-415.53	-14.27	424.00	348.74	75.26	5.634			
7,601.67	7,254.00	13,628.00	7,212.49	28.81	176.18	86.13	-415.53	-14.27	425.63	350.48	75.15	5.664			
7,700.00	7,254.00	13,628.00	7,212.49	30.03	176.18	86.13	-415.53	-14.27	522.48	452.36	70.12	7.451			
7,800.00	7,254.00	13,628.00	7,212.49	31.47	176.18	86.13	-415.53	-14.27	621.45	554.67	66.78	9.306			
7,900.00	7,254.00	13,628.00	7,212.49	33.06	176.18	86.13	-415.53	-14.27	720.70	656.23	64.47	11.179			

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETRACK													Offset Site Error:	0.00 usft
Survey Program: 16-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
8,000.00	7,254.00	13,628.00	7,212.49	34.80	176.18	86.13	-415.53	-14.27	820.14	757.34	62.80	13.059		
8,100.00	7,254.00	13,628.00	7,212.49	36.66	176.18	86.13	-415.53	-14.27	919.69	858.15	61.55	14.943		
8,200.00	7,254.00	13,628.00	7,212.49	38.62	176.18	86.13	-415.53	-14.27	1,019.34	958.76	60.58	16.826		
8,300.00	7,254.00	13,628.00	7,212.49	40.66	176.18	86.13	-415.53	-14.27	1,119.04	1,059.23	59.82	18.708		
8,400.00	7,254.00	13,628.00	7,212.49	42.78	176.18	86.13	-415.53	-14.27	1,218.80	1,159.60	59.20	20.587		
8,500.00	7,254.00	13,628.00	7,212.49	44.97	176.18	86.13	-415.53	-14.27	1,318.59	1,259.89	58.70	22.463		
8,600.00	7,254.00	13,628.00	7,212.49	47.21	176.18	86.13	-415.53	-14.27	1,418.41	1,360.13	58.28	24.336		
8,700.00	7,254.00	13,628.00	7,212.49	49.50	176.18	86.13	-415.53	-14.27	1,518.26	1,460.32	57.94	26.206		
8,800.00	7,254.00	13,628.00	7,212.49	51.83	176.18	86.13	-415.53	-14.27	1,618.12	1,560.48	57.64	28.073		
8,900.00	7,254.00	13,628.00	7,212.49	54.20	176.18	86.13	-415.53	-14.27	1,718.00	1,660.62	57.39	29.937		
9,000.00	7,254.00	13,628.00	7,212.49	56.60	176.18	86.13	-415.53	-14.27	1,817.90	1,760.73	57.17	31.797		
9,100.00	7,254.00	13,628.00	7,212.49	59.03	176.18	86.13	-415.53	-14.27	1,917.80	1,860.82	56.98	33.655		
9,200.00	7,254.00	13,628.00	7,212.49	61.48	176.18	86.13	-415.53	-14.27	2,017.72	1,960.89	56.82	35.509		
9,300.00	7,254.00	13,628.00	7,212.49	63.95	176.18	86.13	-415.53	-14.27	2,117.64	2,060.96	56.68	37.361		
9,400.00	7,254.00	13,628.00	7,212.49	66.44	176.18	86.13	-415.53	-14.27	2,217.57	2,161.01	56.56	39.209		
9,500.00	7,254.00	13,628.00	7,212.49	68.96	176.18	86.13	-415.53	-14.27	2,317.50	2,261.05	56.45	41.054		
9,600.00	7,254.00	13,628.00	7,212.49	71.48	176.18	86.13	-415.53	-14.27	2,417.44	2,361.09	56.35	42.897		
9,700.00	7,254.00	13,628.00	7,212.49	74.02	176.18	86.13	-415.53	-14.27	2,517.39	2,461.12	56.27	44.736		
9,800.00	7,254.00	13,628.00	7,212.49	76.57	176.18	86.13	-415.53	-14.27	2,617.34	2,561.14	56.20	46.572		
9,900.00	7,254.00	13,628.00	7,212.49	79.14	176.18	86.13	-415.53	-14.27	2,717.29	2,661.15	56.14	48.405		
10,000.00	7,254.00	13,628.00	7,212.49	81.71	176.18	86.13	-415.53	-14.27	2,817.25	2,761.16	56.08	50.235		
10,100.00	7,254.00	13,628.00	7,212.49	84.29	176.18	86.13	-415.53	-14.27	2,917.21	2,861.17	56.03	52.062		
10,200.00	7,254.00	13,628.00	7,212.49	86.88	176.18	86.13	-415.53	-14.27	3,017.17	2,961.18	55.99	53.885		
10,300.00	7,254.00	13,628.00	7,212.49	89.48	176.18	86.13	-415.53	-14.27	3,117.13	3,061.17	55.96	55.705		
10,400.00	7,254.00	13,628.00	7,212.49	92.09	176.18	86.13	-415.53	-14.27	3,217.10	3,161.17	55.93	57.522		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft				
Survey Program: 16-OWSG (Rev2) MWD										Rule Assigned:			Offset Well Error:		0.00 usft			
Reference				Offset			Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
3,900.00	3,890.14	13,495.00	7,081.36	14.25	173.71	36.50	-782.36	49.38	3,273.12	3,207.51	65.61	49.888						
4,000.00	3,989.82	13,495.00	7,081.36	14.63	173.71	36.50	-782.36	49.38	3,173.60	3,107.61	65.99	48.094						
4,100.00	4,089.49	13,479.75	7,081.40	15.01	173.30	33.83	-782.42	64.63	3,074.05	3,007.83	66.22	46.422						
4,200.00	4,189.17	13,477.92	7,081.41	15.40	173.25	33.50	-782.43	66.47	2,974.57	2,907.95	66.62	44.650						
4,300.00	4,288.84	13,476.05	7,081.41	15.78	173.20	33.17	-782.44	68.33	2,875.13	2,808.08	67.04	42.884						
4,400.00	4,388.52	13,474.14	7,081.42	16.17	173.15	32.83	-782.46	70.24	2,775.72	2,708.22	67.50	41.123						
4,500.00	4,488.20	13,472.19	7,081.43	16.55	173.10	32.47	-782.47	72.19	2,676.36	2,608.38	67.98	39.369						
4,600.00	4,587.87	13,470.20	7,081.44	16.94	173.05	32.11	-782.49	74.18	2,577.05	2,508.55	68.50	37.621						
4,700.00	4,687.55	13,468.17	7,081.45	17.32	172.99	31.75	-782.50	76.22	2,477.78	2,408.73	69.06	35.880						
4,800.00	4,787.23	13,466.09	7,081.46	17.71	172.94	31.37	-782.52	78.29	2,378.58	2,308.92	69.66	34.146						
4,900.00	4,886.90	13,463.96	7,081.47	18.09	172.88	30.98	-782.54	80.42	2,279.44	2,209.13	70.31	32.419						
5,000.00	4,986.58	13,461.79	7,081.49	18.48	172.82	30.58	-782.56	82.59	2,180.38	2,109.36	71.02	30.699						
5,100.00	5,086.26	13,459.57	7,081.50	18.86	172.76	30.18	-782.59	84.81	2,081.41	2,009.61	71.80	28.988						
5,200.00	5,185.93	13,457.30	7,081.52	19.25	172.70	29.76	-782.61	87.08	1,982.54	1,909.88	72.66	27.285						
5,300.00	5,285.61	13,454.97	7,081.53	19.63	172.64	29.33	-782.64	89.41	1,883.78	1,810.17	73.61	25.591						
5,400.00	5,385.28	13,452.59	7,081.55	20.02	172.57	28.89	-782.67	91.79	1,785.15	1,710.48	74.67	23.907						
5,500.00	5,484.96	13,450.16	7,081.57	20.40	172.51	28.43	-782.70	94.22	1,686.69	1,610.82	75.86	22.234						
5,600.00	5,584.64	13,447.67	7,081.59	20.79	172.44	27.97	-782.73	96.71	1,588.41	1,511.20	77.21	20.573						
5,700.00	5,684.31	13,445.11	7,081.61	21.17	172.37	27.49	-782.77	99.27	1,490.35	1,411.60	78.75	18.926						
5,800.00	5,783.99	13,442.49	7,081.63	21.56	172.30	27.00	-782.81	101.89	1,392.56	1,312.04	80.52	17.295						
5,900.00	5,883.67	13,439.81	7,081.66	21.94	172.23	26.49	-782.85	104.57	1,295.10	1,212.52	82.58	15.682						
6,000.00	5,983.34	13,437.06	7,081.68	22.33	172.16	25.98	-782.89	107.32	1,198.06	1,113.04	85.02	14.092						
6,100.00	6,083.02	13,434.24	7,081.71	22.71	172.08	25.44	-782.94	110.14	1,101.53	1,013.62	87.92	12.529						
6,200.00	6,182.69	13,431.35	7,081.74	23.10	172.00	24.89	-782.99	113.03	1,005.67	914.25	91.42	11.001						
6,300.00	6,282.37	13,428.38	7,081.77	23.48	171.92	24.33	-783.04	116.00	910.70	814.98	95.72	9.514						
6,400.00	6,382.05	13,425.33	7,081.81	23.87	171.84	23.75	-783.10	119.04	816.91	715.83	101.07	8.082						
6,500.00	6,481.72	13,422.20	7,081.84	24.25	171.76	23.15	-783.16	122.17	724.76	616.91	107.85	6.720						
6,600.00	6,581.40	13,418.99	7,081.88	24.64	171.67	22.54	-783.23	125.39	634.98	518.41	116.57	5.447						
6,688.27	6,669.38	13,416.08	7,081.92	24.98	171.59	21.98	-783.29	128.30	558.61	432.21	126.40	4.419						
6,700.00	6,681.08	13,415.79	7,081.92	25.02	171.59	5.39	-783.29	128.59	548.72	420.83	127.89	4.291						
6,750.00	6,730.87	13,416.92	7,081.91	25.21	171.62	-51.40	-783.27	127.45	507.42	372.63	134.78	3.765						
6,800.00	6,780.30	13,421.94	7,081.85	25.38	171.75	-75.01	-783.17	122.44	467.97	325.38	142.59	3.282						
6,850.00	6,828.99	13,430.86	7,081.75	25.54	171.99	-86.31	-783.00	113.51	431.07	279.81	151.26	2.850						
6,900.00	6,876.56	13,443.72	7,081.62	25.69	172.34	-92.47	-782.79	100.66	397.46	236.84	160.62	2.474						
6,950.00	6,922.66	13,460.48	7,081.50	25.83	172.79	-95.64	-782.58	83.90	367.88	197.56	170.32	2.160						
7,000.00	6,966.93	13,481.08	7,081.39	25.96	173.34	-96.73	-782.41	63.30	343.01	163.23	179.78	1.908						
7,050.00	7,009.04	13,506.36	7,081.34	26.08	174.02	-96.06	-782.34	38.02	323.37	135.07	188.30	1.717						
7,100.00	7,048.66	13,536.58	7,081.29	26.19	174.83	-93.91	-782.28	7.80	309.04	113.88	195.16	1.584						
7,150.00	7,085.51	13,558.00	7,081.26	26.30	175.40	-92.41	-782.23	-13.62	300.06	100.68	199.38	1.505						
7,179.99	7,106.15	13,558.00	7,081.26	26.35	175.40	-92.87	-782.23	-13.62	298.44	98.83	199.61	1.495	Level 3, CC, ES, SF					
7,200.00	7,119.28	13,558.00	7,081.26	26.39	175.40	-92.98	-782.23	-13.62	299.17	100.40	198.77	1.505						
7,250.00	7,149.73	13,558.00	7,081.26	26.49	175.40	-92.55	-782.23	-13.62	307.17	113.71	193.46	1.588						
7,300.00	7,176.63	13,558.00	7,081.26	26.60	175.40	-91.13	-782.23	-13.62	323.36	138.73	184.64	1.751						
7,350.00	7,199.77	13,558.00	7,081.26	26.76	175.40	-88.76	-782.23	-13.62	346.48	172.51	173.98	1.992						
7,400.00	7,218.98	13,558.00	7,081.26	26.99	175.40	-85.43	-782.23	-13.62	375.10	212.16	162.94	2.302						
7,450.00	7,234.10	13,558.00	7,081.26	27.33	175.40	-81.22	-782.23	-13.62	407.86	255.41	152.45	2.675						
7,500.00	7,245.03	13,558.00	7,081.26	27.75	175.40	-76.22	-782.23	-13.62	443.63	300.67	142.96	3.103						
7,550.00	7,251.68	13,558.00	7,081.26	28.25	175.40	-70.60	-782.23	-13.62	481.50	346.90	134.59	3.577						
7,600.00	7,254.00	13,558.00	7,081.26	28.79	175.40	-64.59	-782.23	-13.62	520.75	393.43	127.32	4.090						
7,601.67	7,254.00	13,558.00	7,081.26	28.81	175.40	-64.39	-782.23	-13.62	522.08	394.98	127.10	4.108						
7,700.00	7,254.00	13,558.00	7,081.26	30.03	175.40	-64.39	-782.23	-13.62	603.26	488.00	115.25	5.234						
7,800.00	7,254.00	13,558.00	7,081.26	31.47	175.40	-64.39	-782.23	-13.62	690.40	584.69	105.71	6.531						

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore #1											Offset Site Error:	0.00 usft	
Survey Program: 16-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,900.00	7,254.00	13,558.00	7,081.26	33.06	175.40	-64.39	-782.23	-13.62	780.63	682.47	98.17	7.952	
8,000.00	7,254.00	13,558.00	7,081.26	34.80	175.40	-64.39	-782.23	-13.62	873.00	780.85	92.14	9.474	
8,100.00	7,254.00	13,558.00	7,081.26	36.66	175.40	-64.39	-782.23	-13.62	966.88	879.60	87.28	11.078	
8,200.00	7,254.00	13,558.00	7,081.26	38.62	175.40	-64.39	-782.23	-13.62	1,061.88	978.57	83.31	12.746	
8,300.00	7,254.00	13,558.00	7,081.26	40.66	175.40	-64.39	-782.23	-13.62	1,157.72	1,077.69	80.03	14.466	
8,400.00	7,254.00	13,558.00	7,081.26	42.78	175.40	-64.39	-782.23	-13.62	1,254.22	1,176.92	77.30	16.226	
8,500.00	7,254.00	13,558.00	7,081.26	44.97	175.40	-64.39	-782.23	-13.62	1,351.22	1,276.22	74.99	18.018	
8,600.00	7,254.00	13,558.00	7,081.26	47.21	175.40	-64.39	-782.23	-13.62	1,448.63	1,375.59	73.04	19.833	
8,700.00	7,254.00	13,558.00	7,081.26	49.50	175.40	-64.39	-782.23	-13.62	1,546.37	1,475.00	71.37	21.667	
8,800.00	7,254.00	13,558.00	7,081.26	51.83	175.40	-64.39	-782.23	-13.62	1,644.38	1,574.45	69.93	23.514	
8,900.00	7,254.00	13,558.00	7,081.26	54.20	175.40	-64.39	-782.23	-13.62	1,742.62	1,673.94	68.69	25.371	
9,000.00	7,254.00	13,558.00	7,081.26	56.60	175.40	-64.39	-782.23	-13.62	1,841.05	1,773.45	67.60	27.234	
9,100.00	7,254.00	13,558.00	7,081.26	59.03	175.40	-64.39	-782.23	-13.62	1,939.64	1,872.99	66.65	29.102	
9,200.00	7,254.00	13,558.00	7,081.26	61.48	175.40	-64.39	-782.23	-13.62	2,038.37	1,972.55	65.81	30.972	
9,300.00	7,254.00	13,558.00	7,081.26	63.95	175.40	-64.39	-782.23	-13.62	2,137.21	2,072.13	65.08	32.842	
9,400.00	7,254.00	13,558.00	7,081.26	66.44	175.40	-64.39	-782.23	-13.62	2,236.16	2,171.74	64.42	34.711	
9,500.00	7,254.00	13,558.00	7,081.26	68.96	175.40	-64.39	-782.23	-13.62	2,335.20	2,271.36	63.84	36.579	
9,600.00	7,254.00	13,558.00	7,081.26	71.48	175.40	-64.39	-782.23	-13.62	2,434.31	2,370.99	63.32	38.445	
9,700.00	7,254.00	13,558.00	7,081.26	74.02	175.40	-64.39	-782.23	-13.62	2,533.50	2,470.64	62.85	40.307	
9,800.00	7,254.00	13,558.00	7,081.26	76.57	175.40	-64.39	-782.23	-13.62	2,632.74	2,570.31	62.44	42.166	
9,900.00	7,254.00	13,558.00	7,081.26	79.14	175.40	-64.39	-782.23	-13.62	2,732.05	2,669.98	62.06	44.021	
10,000.00	7,254.00	13,558.00	7,081.26	81.71	175.40	-64.39	-782.23	-13.62	2,831.40	2,769.67	61.72	45.872	
10,100.00	7,254.00	13,558.00	7,081.26	84.29	175.40	-64.39	-782.23	-13.62	2,930.79	2,869.37	61.42	47.718	
10,200.00	7,254.00	13,558.00	7,081.26	86.88	175.40	-64.39	-782.23	-13.62	3,030.23	2,969.08	61.14	49.560	
10,300.00	7,254.00	13,558.00	7,081.26	89.48	175.40	-64.39	-782.23	-13.62	3,129.70	3,068.81	60.89	51.397	
10,400.00	7,254.00	13,558.00	7,081.26	92.09	175.40	-64.39	-782.23	-13.62	3,229.20	3,168.54	60.67	53.229	



Anticollision Report



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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 9C-11HZ - Wellbore #1 - Wellbore #1											Offset Site Error:	0.00 usft	
Survey Program: 128-OWSG (Rev2) MWD								Rule Assigned:				Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,200.00	4,189.17	13,682.00	7,228.58	15.40	176.01	29.39	-1,340.76	-22.78	3,261.55	3,177.79	83.76	38.939	
4,300.00	4,288.84	13,682.00	7,228.58	15.78	176.01	29.39	-1,340.76	-22.78	3,165.21	3,080.30	84.91	37.277	
4,400.00	4,388.52	13,682.00	7,228.58	16.17	176.01	29.39	-1,340.76	-22.78	3,069.10	2,982.96	86.13	35.632	
4,500.00	4,488.20	13,682.00	7,228.58	16.55	176.01	29.39	-1,340.76	-22.78	2,973.24	2,885.80	87.44	34.003	
4,600.00	4,587.87	13,682.00	7,228.58	16.94	176.01	29.39	-1,340.76	-22.78	2,877.67	2,788.83	88.84	32.393	
4,700.00	4,687.55	13,682.00	7,228.58	17.32	176.01	29.39	-1,340.76	-22.78	2,782.41	2,692.08	90.33	30.802	
4,800.00	4,787.23	13,682.00	7,228.58	17.71	176.01	29.39	-1,340.76	-22.78	2,687.50	2,595.56	91.94	29.231	
4,900.00	4,886.90	13,682.00	7,228.58	18.09	176.01	29.39	-1,340.76	-22.78	2,592.96	2,499.30	93.67	27.683	
5,000.00	4,986.58	13,682.00	7,228.58	18.48	176.01	29.39	-1,340.76	-22.78	2,498.85	2,403.33	95.53	26.159	
5,100.00	5,086.26	13,682.00	7,228.58	18.86	176.01	29.39	-1,340.76	-22.78	2,405.22	2,307.69	97.53	24.660	
5,200.00	5,185.93	13,682.00	7,228.58	19.25	176.01	29.39	-1,340.76	-22.78	2,312.12	2,212.42	99.71	23.189	
5,300.00	5,285.61	13,680.08	7,228.67	19.63	175.96	29.26	-1,340.82	-20.86	2,219.62	2,117.59	102.03	21.754	
5,400.00	5,385.28	13,672.42	7,229.06	20.02	175.75	28.76	-1,341.04	-13.21	2,127.78	2,023.30	104.49	20.364	
5,500.00	5,484.96	13,664.76	7,229.45	20.40	175.55	28.26	-1,341.25	-5.57	2,036.68	1,929.52	107.16	19.006	
5,600.00	5,584.64	13,657.10	7,229.84	20.79	175.34	27.75	-1,341.47	2.08	1,946.43	1,836.35	110.08	17.682	
5,700.00	5,684.31	13,649.44	7,230.22	21.17	175.14	27.25	-1,341.69	9.73	1,857.14	1,743.86	113.28	16.395	
5,800.00	5,783.99	13,641.78	7,230.61	21.56	174.93	26.74	-1,341.90	17.37	1,768.96	1,652.18	116.78	15.148	
5,900.00	5,883.67	13,634.13	7,231.00	21.94	174.73	26.23	-1,342.12	25.02	1,682.07	1,561.45	120.62	13.945	
6,000.00	5,983.34	13,626.47	7,231.39	22.33	174.52	25.72	-1,342.34	32.66	1,596.69	1,471.85	124.84	12.790	
6,100.00	6,083.02	13,618.80	7,231.77	22.71	174.31	25.21	-1,342.56	40.31	1,513.05	1,383.59	129.46	11.688	
6,200.00	6,182.69	13,610.94	7,232.17	23.10	174.10	24.69	-1,342.78	48.17	1,431.47	1,296.96	134.52	10.642	
6,300.00	6,282.37	13,603.04	7,232.57	23.48	173.89	24.16	-1,343.00	56.05	1,352.32	1,212.29	140.04	9.657	
6,400.00	6,382.05	13,595.11	7,232.98	23.87	173.68	23.63	-1,343.21	63.97	1,276.06	1,130.03	146.03	8.738	
6,500.00	6,481.72	13,587.15	7,233.39	24.25	173.47	23.10	-1,343.42	71.92	1,203.23	1,050.75	152.48	7.891	
6,600.00	6,581.40	13,579.16	7,233.80	24.64	173.25	22.56	-1,343.64	79.89	1,134.49	975.15	159.34	7.120	
6,688.27	6,669.38	13,572.08	7,234.16	24.98	173.06	22.08	-1,343.82	86.96	1,077.84	912.19	165.65	6.507	
6,700.00	6,681.08	13,571.26	7,234.20	25.02	173.04	6.41	-1,343.84	87.78	1,070.62	904.12	166.50	6.430	
6,750.00	6,730.87	13,570.56	7,234.24	25.21	173.02	-47.05	-1,343.86	88.48	1,040.65	870.45	170.20	6.114	
6,800.00	6,780.30	13,574.39	7,234.04	25.38	173.12	-68.41	-1,343.76	84.66	1,012.23	838.25	173.98	5.818	
6,850.00	6,828.99	13,582.72	7,233.61	25.54	173.35	-78.53	-1,343.54	76.33	985.66	807.88	177.77	5.544	
6,900.00	6,876.56	13,595.52	7,232.96	25.69	173.69	-84.45	-1,343.20	63.56	961.19	779.67	181.52	5.295	
6,950.00	6,922.66	13,612.69	7,232.08	25.83	174.15	-88.23	-1,342.73	46.42	939.02	753.85	185.16	5.071	
7,000.00	6,966.93	13,633.48	7,231.03	25.96	174.71	-90.71	-1,342.14	25.66	919.25	730.61	188.63	4.873	
7,050.00	7,009.04	13,657.92	7,229.79	26.08	175.36	-92.25	-1,341.45	1.27	901.94	710.05	191.89	4.700	
7,100.00	7,048.66	13,682.00	7,228.58	26.19	176.01	-93.30	-1,340.76	-22.78	887.06	692.24	194.82	4.553	
7,150.00	7,085.51	13,682.00	7,228.58	26.30	176.01	-95.12	-1,340.76	-22.78	875.21	678.37	196.83	4.446	
7,200.00	7,119.28	13,682.00	7,228.58	26.39	176.01	-96.42	-1,340.76	-22.78	866.93	668.66	198.28	4.372	
7,250.00	7,149.73	13,682.00	7,228.58	26.49	176.01	-97.24	-1,340.76	-22.78	862.40	663.31	199.10	4.332	
7,283.98	7,168.42	13,682.00	7,228.58	26.56	176.01	-97.54	-1,340.76	-22.78	861.51	662.22	199.29	4.323 CC, ES, SF	
7,300.00	7,176.63	13,682.00	7,228.58	26.60	176.01	-97.60	-1,340.76	-22.78	861.71	662.44	199.27	4.324	
7,350.00	7,199.77	13,682.00	7,228.58	26.76	176.01	-97.52	-1,340.76	-22.78	864.87	666.08	198.79	4.351	
7,400.00	7,218.98	13,682.00	7,228.58	26.99	176.01	-97.01	-1,340.76	-22.78	871.81	674.12	197.70	4.410	
7,450.00	7,234.10	13,682.00	7,228.58	27.33	176.01	-96.07	-1,340.76	-22.78	882.40	686.36	196.05	4.501	
7,500.00	7,245.03	13,682.00	7,228.58	27.75	176.01	-94.72	-1,340.76	-22.78	896.43	702.52	193.91	4.623	
7,550.00	7,251.68	13,682.00	7,228.58	28.25	176.01	-92.96	-1,340.76	-22.78	913.63	722.25	191.38	4.774	
7,600.00	7,254.00	13,682.00	7,228.58	28.79	176.01	-90.80	-1,340.76	-22.78	933.70	745.17	188.53	4.952	
7,601.67	7,254.00	13,682.00	7,228.58	28.81	176.01	-90.72	-1,340.76	-22.78	934.42	745.99	188.43	4.959	
7,700.00	7,254.00	13,682.00	7,228.58	30.03	176.01	-90.72	-1,340.76	-22.78	980.70	798.44	182.27	5.381	
7,800.00	7,254.00	13,682.00	7,228.58	31.47	176.01	-90.72	-1,340.76	-22.78	1,035.26	859.65	175.61	5.895	
7,900.00	7,254.00	13,682.00	7,228.58	33.06	176.01	-90.72	-1,340.76	-22.78	1,096.23	927.37	168.87	6.492	
8,000.00	7,254.00	13,682.00	7,228.58	34.80	176.01	-90.72	-1,340.76	-22.78	1,162.63	1,000.36	162.27	7.165	
8,100.00	7,254.00	13,682.00	7,228.58	36.66	176.01	-90.72	-1,340.76	-22.78	1,233.56	1,077.61	155.95	7.910	

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ MIRACLE 9C-11HZ - Wellbore #1 - Wellbore #1											Offset Site Error:	0.00 usft		
Survey Program: 128-OWSG (Rev2) MWD											Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis				Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,200.00	7,254.00	13,682.00	7,228.58	38.62	176.01	-90.72	-1,340.76	-22.78	1,308.30	1,158.29	150.01	8.721		
8,300.00	7,254.00	13,682.00	7,228.58	40.66	176.01	-90.72	-1,340.76	-22.78	1,386.23	1,241.76	144.47	9.595		
8,400.00	7,254.00	13,682.00	7,228.58	42.78	176.01	-90.72	-1,340.76	-22.78	1,466.83	1,327.49	139.35	10.526		
8,500.00	7,254.00	13,682.00	7,228.58	44.97	176.01	-90.72	-1,340.76	-22.78	1,549.70	1,415.07	134.63	11.511		
8,600.00	7,254.00	13,682.00	7,228.58	47.21	176.01	-90.72	-1,340.76	-22.78	1,634.49	1,504.19	130.30	12.544		
8,700.00	7,254.00	13,682.00	7,228.58	49.50	176.01	-90.72	-1,340.76	-22.78	1,720.91	1,594.58	126.33	13.623		
8,800.00	7,254.00	13,682.00	7,228.58	51.83	176.01	-90.72	-1,340.76	-22.78	1,808.73	1,686.05	122.68	14.743		
8,900.00	7,254.00	13,682.00	7,228.58	54.20	176.01	-90.72	-1,340.76	-22.78	1,897.76	1,778.41	119.34	15.902		
9,000.00	7,254.00	13,682.00	7,228.58	56.60	176.01	-90.72	-1,340.76	-22.78	1,987.83	1,871.55	116.28	17.096		
9,100.00	7,254.00	13,682.00	7,228.58	59.03	176.01	-90.72	-1,340.76	-22.78	2,078.81	1,965.35	113.46	18.322		
9,200.00	7,254.00	13,682.00	7,228.58	61.48	176.01	-90.72	-1,340.76	-22.78	2,170.58	2,059.71	110.87	19.578		
9,300.00	7,254.00	13,682.00	7,228.58	63.95	176.01	-90.72	-1,340.76	-22.78	2,263.05	2,154.57	108.48	20.861		
9,400.00	7,254.00	13,682.00	7,228.58	66.44	176.01	-90.72	-1,340.76	-22.78	2,356.13	2,249.85	106.28	22.169		
9,500.00	7,254.00	13,682.00	7,228.58	68.96	176.01	-90.72	-1,340.76	-22.78	2,449.76	2,345.52	104.24	23.500		
9,600.00	7,254.00	13,682.00	7,228.58	71.48	176.01	-90.72	-1,340.76	-22.78	2,543.88	2,441.51	102.36	24.851		
9,700.00	7,254.00	13,682.00	7,228.58	74.02	176.01	-90.72	-1,340.76	-22.78	2,638.42	2,537.80	100.62	26.222		
9,800.00	7,254.00	13,682.00	7,228.58	76.57	176.01	-90.72	-1,340.76	-22.78	2,733.36	2,634.36	99.00	27.609		
9,900.00	7,254.00	13,682.00	7,228.58	79.14	176.01	-90.72	-1,340.76	-22.78	2,828.64	2,731.15	97.50	29.012		
10,000.00	7,254.00	13,682.00	7,228.58	81.71	176.01	-90.72	-1,340.76	-22.78	2,924.24	2,828.14	96.10	30.429		
10,100.00	7,254.00	13,682.00	7,228.58	84.29	176.01	-90.72	-1,340.76	-22.78	3,020.13	2,925.33	94.80	31.858		
10,200.00	7,254.00	13,682.00	7,228.58	86.88	176.01	-90.72	-1,340.76	-22.78	3,116.27	3,022.69	93.58	33.300		
10,300.00	7,254.00	13,682.00	7,228.58	89.48	176.01	-90.72	-1,340.76	-22.78	3,212.65	3,120.20	92.45	34.751		

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ PROWANT 18-1HZ - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft				
Survey Program: 18-OWSG (Rev2) MWD										Rule Assigned:		Offset Well Error:	0.00 usft				
Reference				Offset			Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
5,300.00	5,285.61	13,241.55	6,996.40	19.63	178.94	19.82	-3,107.03	41.56	3,278.61	3,108.34	170.27	19.256					
5,400.00	5,385.28	13,229.32	6,996.74	20.02	178.61	19.55	-3,107.09	53.79	3,219.55	3,046.99	172.56	18.658					
5,500.00	5,484.96	13,217.27	6,997.08	20.40	178.28	19.29	-3,107.11	65.82	3,162.53	2,987.69	174.84	18.088					
5,600.00	5,584.64	13,205.42	6,997.42	20.79	177.96	19.03	-3,107.11	77.67	3,107.67	2,930.56	177.11	17.546					
5,700.00	5,684.31	13,193.75	6,997.74	21.17	177.65	18.77	-3,107.08	89.34	3,055.07	2,875.72	179.35	17.034					
5,800.00	5,783.99	13,182.26	6,998.06	21.56	177.34	18.52	-3,107.03	100.82	3,004.87	2,823.32	181.54	16.552					
5,900.00	5,883.67	13,170.95	6,998.36	21.94	177.04	18.28	-3,106.95	112.13	2,957.17	2,773.49	183.68	16.100					
6,000.00	5,983.34	13,164.00	6,998.55	22.33	176.85	18.12	-3,106.89	119.08	2,912.11	2,726.25	185.86	15.668					
6,100.00	6,083.02	13,164.00	6,998.55	22.71	176.85	18.12	-3,106.89	119.08	2,869.82	2,681.68	188.15	15.253					
6,200.00	6,182.69	13,164.00	6,998.55	23.10	176.85	18.12	-3,106.89	119.08	2,830.44	2,640.11	190.33	14.871					
6,300.00	6,282.37	13,164.00	6,998.55	23.48	176.85	18.12	-3,106.89	119.08	2,794.08	2,601.70	192.38	14.524					
6,400.00	6,382.05	13,148.51	6,998.97	23.87	176.43	17.79	-3,106.76	134.56	2,760.81	2,566.97	193.84	14.243					
6,500.00	6,481.72	13,144.93	6,999.07	24.25	176.34	17.71	-3,106.74	138.14	2,730.82	2,535.35	195.47	13.970					
6,600.00	6,581.40	13,141.32	6,999.17	24.64	176.24	17.63	-3,106.72	141.74	2,704.20	2,507.28	196.92	13.732					
6,688.27	6,669.38	13,138.13	6,999.26	24.98	176.15	17.56	-3,106.70	144.94	2,683.57	2,485.53	198.04	13.551					
6,700.00	6,681.08	13,137.79	6,999.27	25.02	176.14	2.59	-3,106.70	145.28	2,681.04	2,482.86	198.18	13.529					
6,750.00	6,730.87	13,138.25	6,999.26	25.21	176.16	-48.12	-3,106.70	144.82	2,670.77	2,472.00	198.77	13.437					
6,800.00	6,780.30	13,141.80	6,999.16	25.38	176.25	-67.16	-3,106.72	141.27	2,661.44	2,462.07	199.37	13.349					
6,850.00	6,828.99	13,148.44	6,998.98	25.54	176.43	-75.41	-3,106.76	134.63	2,653.12	2,453.14	199.98	13.267					
6,900.00	6,876.56	13,164.00	6,998.55	25.69	176.85	-79.78	-3,106.89	119.08	2,645.86	2,445.08	200.78	13.178					
6,950.00	6,922.66	13,183.52	6,998.02	25.83	177.37	-82.41	-3,107.03	99.57	2,639.62	2,438.00	201.61	13.092					
7,000.00	6,966.93	13,228.08	6,996.78	25.96	178.57	-83.67	-3,107.09	55.03	2,634.24	2,431.11	203.13	12.968					
7,050.00	7,009.04	13,243.56	6,996.33	26.08	178.99	-84.96	-3,106.95	39.54	2,629.61	2,425.90	203.71	12.908					
7,100.00	7,048.66	13,282.50	6,995.23	26.19	180.04	-85.46	-3,106.79	0.63	2,625.85	2,420.90	204.95	12.812					
7,150.00	7,085.51	13,305.18	6,994.60	26.30	180.65	-85.99	-3,106.77	-22.05	2,622.97	2,417.30	205.67	12.753					
7,200.00	7,119.28	13,343.00	6,993.58	26.39	181.67	-86.11	-3,106.91	-59.85	2,620.94	2,414.12	206.82	12.672					
7,250.00	7,149.73	13,402.50	6,991.87	26.49	183.27	-85.84	-3,106.88	-119.33	2,619.38	2,410.77	208.61	12.556					
7,300.00	7,176.63	13,451.66	6,990.29	26.60	184.59	-85.68	-3,106.27	-168.46	2,617.70	2,407.59	210.11	12.459					
7,350.00	7,199.77	13,479.21	6,989.44	26.76	185.34	-85.72	-3,106.05	-195.99	2,616.55	2,405.53	211.02	12.400					
7,400.00	7,218.98	13,522.00	6,988.21	26.99	186.49	-85.58	-3,106.04	-238.77	2,615.99	2,403.57	212.42	12.315					
7,450.00	7,234.10	13,546.97	6,987.52	27.33	187.16	-85.57	-3,106.16	-263.73	2,615.72	2,402.37	213.35	12.260					
7,500.00	7,245.03	13,594.89	6,986.18	27.75	188.45	-85.41	-3,106.39	-311.63	2,615.65	2,400.62	215.03	12.164					
7,550.00	7,251.68	13,674.31	6,983.93	28.25	190.59	-85.21	-3,106.42	-391.02	2,615.43	2,397.74	217.69	12.014					
7,600.00	7,254.00	13,744.42	6,981.74	28.79	192.48	-85.19	-3,105.59	-461.09	2,614.55	2,394.42	220.13	11.877					
7,601.67	7,254.00	13,746.42	6,981.67	28.81	192.54	-85.19	-3,105.56	-463.09	2,614.52	2,394.31	220.21	11.873					
7,700.00	7,254.00	13,844.90	6,977.91	30.03	195.19	-85.10	-3,103.90	-561.48	2,612.37	2,388.31	224.06	11.659					
7,800.00	7,254.00	13,942.50	6,974.21	31.47	197.83	-85.01	-3,102.51	-659.00	2,610.45	2,382.36	228.09	11.445					
7,900.00	7,254.00	14,093.38	6,968.60	33.06	201.91	-84.88	-3,098.79	-809.72	2,607.48	2,373.76	233.72	11.157					
8,000.00	7,254.00	14,186.07	6,965.18	34.80	204.41	-84.80	-3,095.63	-902.30	2,603.60	2,365.68	237.92	10.943					
8,100.00	7,254.00	14,309.21	6,960.66	36.66	207.74	-84.69	-3,091.79	-1,025.29	2,600.10	2,357.07	243.03	10.699					
8,200.00	7,254.00	14,418.00	6,956.45	38.62	210.69	-84.59	-3,086.97	-1,133.89	2,595.20	2,347.35	247.86	10.471					
8,300.00	7,254.00	14,486.83	6,953.84	40.66	212.55	-84.52	-3,084.32	-1,202.62	2,590.92	2,339.16	251.76	10.291					
8,400.00	7,254.00	14,609.97	6,949.14	42.78	215.89	-84.41	-3,080.16	-1,325.60	2,587.16	2,330.04	257.12	10.062					
8,500.00	7,254.00	14,686.00	6,946.05	44.97	217.94	-84.33	-3,077.12	-1,401.51	2,582.83	2,321.49	261.34	9.883					
8,600.00	7,254.00	14,776.00	6,942.70	47.21	220.38	-84.25	-3,074.44	-1,491.40	2,579.41	2,313.44	265.97	9.698					
8,700.00	7,254.00	14,875.55	6,939.70	49.50	223.08	-84.18	-3,072.25	-1,590.88	2,576.70	2,305.79	270.90	9.512					
8,800.00	7,254.00	15,001.91	6,936.45	51.83	226.50	-84.09	-3,067.30	-1,717.10	2,572.04	2,295.47	276.56	9.300					
8,900.00	7,254.00	15,075.47	6,934.98	54.20	228.49	-84.05	-3,065.16	-1,790.61	2,568.48	2,287.56	280.92	9.143					
9,000.00	7,254.00	15,175.35	6,933.41	56.60	231.20	-84.01	-3,062.62	-1,890.45	2,565.28	2,279.30	285.98	8.970					
9,100.00	7,254.00	15,293.67	6,931.99	59.03	234.41	-83.97	-3,059.60	-2,008.72	2,561.90	2,270.35	291.54	8.787					
9,200.00	7,254.00	15,388.36	6,930.79	61.48	236.98	-83.93	-3,056.30	-2,103.35	2,557.97	2,261.44	296.53	8.626					
9,300.00	7,254.00	15,471.01	6,929.95	63.95	239.22	-83.91	-3,054.08	-2,185.97	2,554.58	2,253.35	301.22	8.481					

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ PROWANT 18-1HZ - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: Reference		18-OWSG (Rev2) MWD 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)		Offset Well Error:	0.00 usft
9,400.00	7,254.00	15,568.28	6,930.01	66.44	241.86	-83.90	-3,052.06	-2,283.21	2,551.68	2,245.35	306.33	8.330		
9,500.00	7,254.00	15,724.05	6,930.03	68.96	246.08	-83.88	-3,046.43	-2,438.87	2,547.04	2,234.13	312.91	8.140		
9,600.00	7,254.00	15,801.29	6,929.63	71.48	248.18	-83.87	-3,043.31	-2,516.05	2,542.28	2,224.71	317.56	8.006		
9,700.00	7,254.00	15,888.79	6,929.43	74.02	250.56	-83.85	-3,040.77	-2,603.51	2,538.56	2,216.09	322.47	7.872		
9,800.00	7,254.00	15,978.61	6,929.06	76.57	252.99	-83.84	-3,037.94	-2,693.29	2,534.67	2,207.24	327.43	7.741		
9,900.00	7,254.00	16,047.54	6,928.67	79.14	254.86	-83.82	-3,036.71	-2,762.20	2,532.07	2,200.22	331.85	7.630		
10,000.00	7,254.00	16,142.29	6,927.54	81.71	257.43	-83.79	-3,035.22	-2,856.94	2,529.83	2,192.88	336.95	7.508		
10,100.00	7,254.00	16,210.00	6,926.73	84.29	259.27	-83.77	-3,034.95	-2,924.64	2,528.68	2,187.39	341.29	7.409		
10,200.00	7,254.00	16,341.25	6,925.09	86.88	262.82	-83.73	-3,034.05	-3,055.87	2,527.28	2,179.85	347.42	7.274		
10,300.00	7,254.00	16,423.89	6,924.04	89.48	265.06	-83.70	-3,033.23	-3,138.50	2,525.63	2,173.42	352.20	7.171		
10,400.00	7,254.00	16,502.46	6,923.16	92.09	267.19	-83.68	-3,033.32	-3,217.07	2,525.01	2,168.15	356.86	7.076		
10,500.00	7,254.00	16,619.08	6,921.73	94.70	270.35	-83.65	-3,033.44	-3,333.68	2,524.42	2,161.81	362.61	6.962		
10,600.00	7,254.00	16,705.87	6,920.68	97.32	272.70	-83.62	-3,033.16	-3,420.46	2,523.46	2,155.94	367.51	6.866		
10,638.05	7,254.00	16,732.18	6,920.45	98.32	273.41	-83.62	-3,033.29	-3,446.77	2,523.37	2,154.18	369.18	6.835		
10,700.00	7,254.00	16,781.26	6,920.12	99.95	274.74	-83.61	-3,033.82	-3,495.84	2,523.55	2,151.48	372.07	6.782		
10,800.00	7,254.00	16,944.87	6,918.52	102.58	279.17	-83.57	-3,034.79	-3,659.43	2,523.82	2,144.64	379.19	6.656		
10,900.00	7,254.00	17,017.00	6,917.46	105.21	281.13	-83.55	-3,034.45	-3,731.56	2,522.61	2,138.90	383.71	6.574		
11,000.00	7,254.00	17,106.00	6,916.45	107.85	283.54	-83.52	-3,034.57	-3,820.55	2,522.03	2,133.33	388.69	6.488		
11,100.00	7,254.00	17,274.84	6,915.74	110.49	288.12	-83.50	-3,032.23	-3,989.36	2,519.65	2,123.78	395.87	6.365		
11,200.00	7,254.00	17,375.00	6,915.86	113.14	290.84	-83.49	-3,029.67	-4,089.49	2,516.28	2,115.08	401.20	6.272		
11,300.00	7,254.00	17,499.24	6,916.14	115.79	294.22	-83.48	-3,025.92	-4,213.67	2,512.39	2,105.27	407.12	6.171		
11,400.00	7,254.00	17,590.02	6,916.31	118.44	296.69	-83.48	-3,023.23	-4,304.41	2,508.58	2,096.35	412.23	6.085		
11,500.00	7,254.00	17,691.37	6,916.39	121.09	299.44	-83.47	-3,019.98	-4,405.70	2,504.56	2,086.96	417.60	5.998		
11,600.00	7,254.00	17,765.96	6,916.35	123.75	301.47	-83.46	-3,017.97	-4,480.27	2,501.10	2,078.79	422.30	5.922		
11,700.00	7,254.00	17,823.00	6,916.48	126.41	303.02	-83.46	-3,017.18	-4,537.31	2,498.97	2,072.47	426.49	5.859		
11,800.00	7,254.00	17,912.00	6,916.75	129.08	305.43	-83.47	-3,017.09	-4,626.31	2,498.01	2,066.48	431.53	5.789		
11,837.49	7,254.00	17,930.08	6,916.79	130.08	305.92	-83.47	-3,017.22	-4,644.38	2,497.93	2,064.97	432.96	5.769		
11,900.00	7,254.00	17,970.37	6,916.89	131.75	307.01	-83.47	-3,017.78	-4,684.67	2,498.26	2,062.65	435.61	5.735		
12,000.00	7,254.00	18,042.48	6,917.10	134.41	308.96	-83.48	-3,019.58	-4,756.76	2,499.86	2,059.81	440.05	5.681		
12,100.00	7,254.00	18,141.60	6,917.49	137.08	311.64	-83.49	-3,022.79	-4,855.83	2,502.20	2,056.83	445.37	5.618		
12,200.00	7,254.00	18,235.00	6,917.81	139.76	314.16	-83.50	-3,025.49	-4,949.18	2,504.23	2,053.72	450.51	5.559		
12,300.00	7,254.00	18,321.55	6,918.32	142.43	316.50	-83.52	-3,028.66	-5,035.68	2,506.96	2,051.56	455.40	5.505		
12,400.00	7,254.00	18,421.75	6,918.88	145.11	319.20	-83.54	-3,032.54	-5,135.79	2,509.92	2,049.15	460.78	5.447		
12,500.00	7,254.00	18,516.32	6,919.59	147.79	321.75	-83.57	-3,036.23	-5,230.29	2,512.89	2,046.93	465.95	5.393		
12,600.00	7,254.00	18,623.16	6,920.35	150.47	324.64	-83.59	-3,040.49	-5,337.05	2,515.95	2,044.38	471.57	5.335		
12,700.00	7,254.00	18,747.22	6,920.89	153.15	327.99	-83.61	-3,044.41	-5,461.04	2,518.20	2,040.43	477.77	5.271		
12,800.00	7,254.00	18,864.84	6,921.34	155.83	331.17	-83.63	-3,047.48	-5,578.62	2,519.95	2,036.24	483.72	5.210		
12,900.00	7,254.00	19,023.05	6,920.72	158.51	335.46	-83.61	-3,048.08	-5,736.82	2,519.29	2,028.48	490.82	5.133		
13,000.00	7,254.00	19,097.75	6,918.75	161.20	337.49	-83.57	-3,048.12	-5,811.49	2,518.78	2,023.37	495.41	5.084		
13,100.00	7,254.00	19,218.83	6,914.46	163.88	340.77	-83.47	-3,048.31	-5,932.49	2,518.56	2,017.27	501.30	5.024		
13,200.00	7,254.00	19,344.72	6,909.43	166.57	344.19	-83.35	-3,046.72	-6,058.26	2,516.90	2,009.65	507.25	4.962		
13,300.00	7,254.00	19,440.10	6,905.78	169.26	346.78	-83.26	-3,045.28	-6,153.57	2,515.02	2,002.61	512.42	4.908		
13,400.00	7,254.00	19,541.40	6,902.35	171.95	349.53	-83.17	-3,043.97	-6,254.80	2,513.32	1,995.58	517.74	4.854		
13,500.00	7,254.00	19,658.05	6,898.27	174.64	352.70	-83.07	-3,041.57	-6,371.36	2,510.82	1,987.39	523.43	4.797		
13,600.00	7,254.00	19,812.08	6,892.50	177.33	356.89	-82.93	-3,037.16	-6,525.20	2,507.80	1,977.93	529.87	4.733		
13,700.00	7,254.00	19,916.98	6,888.15	180.02	359.74	-82.81	-3,032.52	-6,629.91	2,503.10	1,967.88	535.22	4.677		
13,800.00	7,254.00	20,005.39	6,884.47	182.72	362.15	-82.71	-3,028.46	-6,718.15	2,498.27	1,958.03	540.25	4.624		
13,900.00	7,254.00	20,081.06	6,881.34	185.41	364.21	-82.63	-3,025.89	-6,793.71	2,494.56	1,949.56	544.99	4.577		
14,000.00	7,254.00	20,188.55	6,876.94	188.11	367.13	-82.52	-3,022.00	-6,901.04	2,490.64	1,940.24	550.40	4.525		
14,100.00	7,254.00	20,269.79	6,873.86	190.80	369.34	-82.44	-3,019.69	-6,982.19	2,487.46	1,932.22	555.24	4.480		
14,200.00	7,254.00	20,386.24	6,869.23	193.50	372.50	-82.32	-3,016.29	-7,098.50	2,484.28	1,923.44	560.85	4.430		
14,300.00	7,254.00	20,497.82	6,864.98	196.19	375.54	-82.21	-3,012.23	-7,209.93	2,480.36	1,914.03	566.33	4.380		

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

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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST HZ PROWANT 18-1HZ - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 18-OWSG (Rev2) MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,400.00	7,254.00	20,605.35	6,861.40	198.89	378.47	-82.11	-3,008.09	-7,317.31	2,476.18	1,904.44	571.73	4.331	
14,500.00	7,254.00	20,703.00	6,858.17	201.59	381.13	-82.02	-3,003.56	-7,414.80	2,471.23	1,894.30	576.93	4.283	
14,600.00	7,254.00	20,703.00	6,858.17	204.29	381.13	-82.02	-3,003.56	-7,414.80	2,468.97	1,889.21	579.76	4.259	
14,605.70	7,254.00	20,703.00	6,858.17	204.44	381.13	-82.02	-3,003.56	-7,414.80	2,468.97	1,889.07	579.90	4.258	CC, ES
14,700.00	7,254.00	20,703.00	6,858.17	206.99	381.13	-82.02	-3,003.56	-7,414.80	2,470.77	1,889.11	581.66	4.248	SF
14,800.00	7,254.00	20,703.00	6,858.17	209.69	381.13	-82.02	-3,003.56	-7,414.80	2,476.60	1,893.99	582.61	4.251	
14,900.00	7,254.00	20,703.00	6,858.17	212.39	381.13	-82.02	-3,003.56	-7,414.80	2,486.45	1,903.82	582.63	4.268	
15,000.00	7,254.00	20,703.00	6,858.17	215.09	381.13	-82.02	-3,003.56	-7,414.80	2,500.25	1,918.52	581.73	4.298	
15,100.00	7,254.00	20,703.00	6,858.17	217.79	381.13	-82.02	-3,003.56	-7,414.80	2,517.96	1,938.00	579.96	4.342	
15,200.00	7,254.00	20,703.00	6,858.17	220.50	381.13	-82.02	-3,003.56	-7,414.80	2,539.49	1,962.13	577.36	4.398	
15,300.00	7,254.00	20,703.00	6,858.17	223.20	381.13	-82.02	-3,003.56	-7,414.80	2,564.73	1,990.76	573.97	4.468	
15,400.00	7,254.00	20,703.00	6,858.17	225.90	381.13	-82.02	-3,003.56	-7,414.80	2,593.59	2,023.72	569.87	4.551	
15,500.00	7,254.00	20,703.00	6,858.17	228.61	381.13	-82.02	-3,003.56	-7,414.80	2,625.94	2,060.83	565.11	4.647	
15,600.00	7,254.00	20,703.00	6,858.17	231.31	381.13	-82.02	-3,003.56	-7,414.80	2,661.66	2,101.88	559.78	4.755	
15,602.20	7,254.00	20,703.00	6,858.17	231.37	381.13	-82.02	-3,003.56	-7,414.80	2,662.49	2,102.84	559.65	4.757	

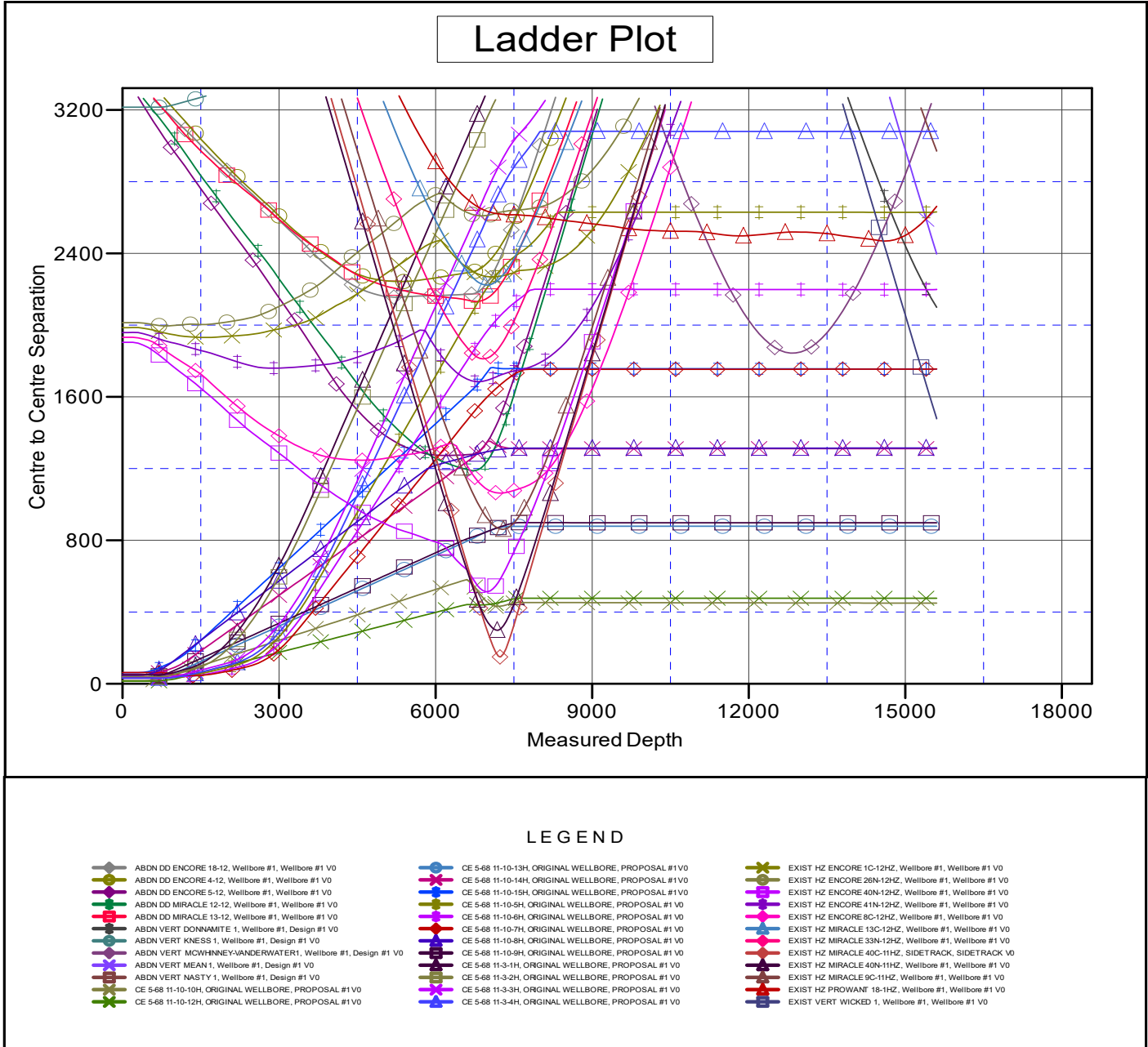
<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-11H
<b>Project:</b>	LARIMER COUNTY, COLORADO (NAD 83)	<b>TVD Reference:</b>	KBE @ 5000.00usft
<b>Reference Site:</b>	SEC. 11 T5N R68W 6th P.M.	<b>MD Reference:</b>	KBE @ 5000.00usft
<b>Site Error:</b>	0.00 usft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

Offset Design: SEC. 11 T5N R68W 6th P.M. - EXIST VERT WICKED 1 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 100-GYD_CT													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)				
13,800.00	7,254.00	6,927.23	6,910.86	182.72	4.55	-55.32	-1,030.85	-9,811.38	3,232.99	3,193.16	39.83	81.169		
13,900.00	7,254.00	6,937.11	6,920.69	185.41	4.56	-56.16	-1,030.79	-9,812.36	3,134.48	3,093.88	40.61	77.191		
14,000.00	7,254.00	6,946.98	6,930.51	188.11	4.57	-57.03	-1,030.73	-9,813.33	3,036.04	2,994.59	41.45	73.239		
14,100.00	7,254.00	6,956.86	6,940.34	190.80	4.59	-57.91	-1,030.67	-9,814.31	2,937.67	2,895.29	42.38	69.318		
14,200.00	7,254.00	6,966.73	6,950.17	193.50	4.60	-58.80	-1,030.62	-9,815.28	2,839.37	2,795.98	43.39	65.435		
14,300.00	7,254.00	6,976.61	6,959.99	196.19	4.62	-59.72	-1,030.56	-9,816.26	2,741.17	2,696.66	44.50	61.595		
14,400.00	7,254.00	6,986.48	6,969.82	198.89	4.63	-60.65	-1,030.50	-9,817.24	2,643.06	2,597.34	45.72	57.806		
14,500.00	7,254.00	6,996.36	6,979.64	201.59	4.64	-61.61	-1,030.44	-9,818.21	2,545.06	2,498.00	47.06	54.076		
14,600.00	7,254.00	7,006.23	6,989.47	204.29	4.66	-62.58	-1,030.39	-9,819.19	2,447.18	2,398.64	48.54	50.411		
14,700.00	7,254.00	7,016.11	6,999.30	206.99	4.67	-63.56	-1,030.33	-9,820.16	2,349.44	2,299.26	50.18	46.822		
14,800.00	7,254.00	7,025.99	7,009.12	209.69	4.68	-64.57	-1,030.27	-9,821.14	2,251.86	2,199.87	51.99	43.315		
14,900.00	7,254.00	7,035.86	7,018.95	212.39	4.70	-65.59	-1,030.21	-9,822.11	2,154.45	2,100.45	54.00	39.900		
15,000.00	7,254.00	7,045.74	7,028.78	215.09	4.71	-66.63	-1,030.16	-9,823.09	2,057.24	2,001.01	56.23	36.585		
15,100.00	7,254.00	7,055.61	7,038.60	217.79	4.72	-67.68	-1,030.10	-9,824.07	1,960.27	1,901.54	58.73	33.379		
15,200.00	7,254.00	7,065.49	7,048.43	220.50	4.74	-68.75	-1,030.04	-9,825.04	1,863.56	1,802.04	61.52	30.291		
15,300.00	7,254.00	7,075.36	7,058.26	223.20	4.75	-69.84	-1,029.99	-9,826.02	1,767.16	1,702.50	64.66	27.328		
15,400.00	7,254.00	7,085.24	7,068.08	225.90	4.76	-70.95	-1,029.93	-9,826.99	1,671.13	1,602.92	68.21	24.501		
15,500.00	7,254.00	7,095.11	7,077.91	228.61	4.78	-72.07	-1,029.87	-9,827.97	1,575.53	1,503.30	72.22	21.815		
15,600.00	7,254.00	7,104.99	7,087.74	231.31	4.79	-73.20	-1,029.81	-9,828.94	1,480.44	1,403.65	76.80	19.278		
15,602.20	7,254.00	7,105.20	7,087.95	231.37	4.79	-73.23	-1,029.81	-9,828.96	1,478.36	1,401.46	76.90	19.223	CC, ES, SF	

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

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

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

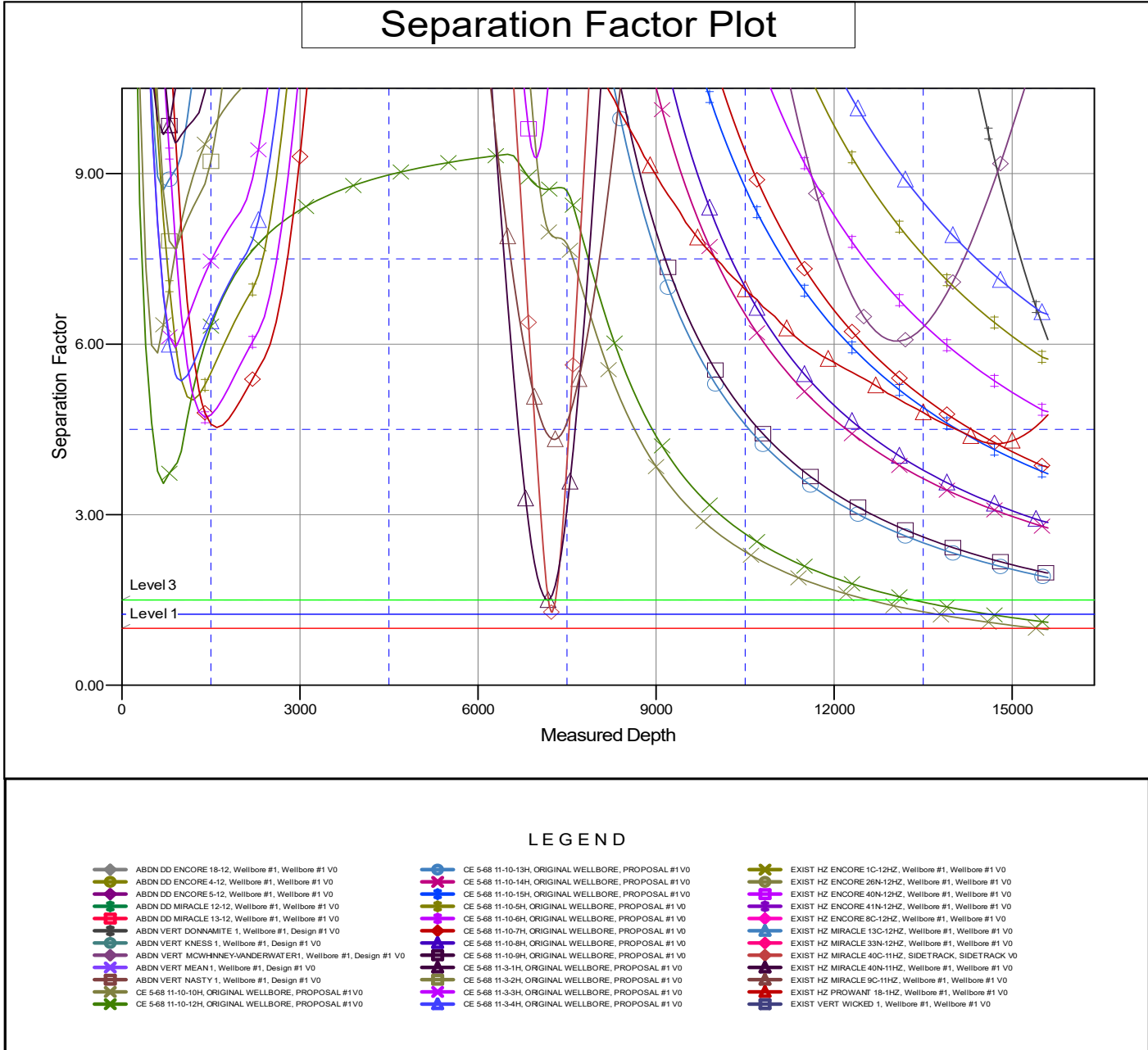


CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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

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

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



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