



# **BISON IV OPERATING**

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

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

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

**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 11-10-5H
<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 11-10-5H	<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	15,837.79	PROPOSAL #1 (ORIGINAL WELLBORE)	OWSG (Rev2) MWD	OWSG MWD - Standard

Site Name Offset Well - Wellbore - Design	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	5,414.06	5,428.00	1,863.19	1,811.23	35.857	CC, ES
ABDN DD ENCORE 18-12 - Wellbore #1 - Wellbore #1	7,200.00	6,981.63	2,059.96	1,988.98	29.020	SF
ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1	6,564.91	6,520.26	1,187.83	1,127.46	19.677	CC
ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1	6,600.00	6,552.63	1,187.92	1,127.12	19.540	ES
ABDN DD ENCORE 4-12 - Wellbore #1 - Wellbore #1	7,200.00	7,111.19	1,217.26	1,148.79	17.777	SF
ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1	5,031.77	5,529.08	1,460.07	1,398.73	23.801	CC
ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1	5,100.00	5,566.50	1,461.13	1,398.73	23.414	ES
ABDN DD ENCORE 5-12 - Wellbore #1 - Wellbore #1	5,800.00	6,065.18	1,555.65	1,484.57	21.885	SF
ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1	3,852.00	4,664.44	2,327.66	2,286.09	55.999	CC
ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1	3,900.00	4,701.00	2,327.91	2,285.66	55.096	ES
ABDN DD MIRACLE 12-12 - Wellbore #1 - Wellbore #1	6,000.00	6,263.44	2,699.44	2,630.99	39.439	SF
ABDN DD MIRACLE 13-12 - Wellbore #1 - Wellbore #1	3,034.86	3,765.57	2,791.93	2,753.66	72.946	CC, ES
ABDN DD MIRACLE 13-12 - Wellbore #1 - Wellbore #1	4,900.00	5,091.80	3,242.36	3,182.10	53.806	SF
ABDN VERT DONNAMITE 1 - Wellbore #1 - Design #1						Out of range
ABDN VERT KNESS 1 - Wellbore #1 - Design #1	8,878.23	7,264.00	772.02	580.33	4.027	CC
ABDN VERT KNESS 1 - Wellbore #1 - Design #1	8,900.00	7,264.00	772.32	579.67	4.009	ES
ABDN VERT KNESS 1 - Wellbore #1 - Design #1	9,000.00	7,264.00	781.56	584.57	3.968	SF
ABDN VERT MCWHINNEY-VANDERWATER1 - Wellbor						Out of range
ABDN VERT MEAN 1 - Wellbore #1 - Design #1						Out of range
ABDN VERT NASTY 1 - Wellbore #1 - Design #1						Out of range
ABDN VERT RAUSLER 1 - Wellbore #1 - Design #1						Out of range
CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOS	300.00	300.00	50.44	48.72	29.313	CC, ES
CE 5-68 11-10-10H - ORIGINAL WELLBORE - PROPOS	15,837.79	15,826.77	2,195.16	1,731.75	4.737	SF
CE 5-68 11-10-11H - ORIGINAL WELLBORE - PROPOS	960.51	960.85	35.76	29.36	5.586	CC
CE 5-68 11-10-11H - ORIGINAL WELLBORE - PROPOS	1,000.00	1,000.22	35.90	29.22	5.375	ES
CE 5-68 11-10-11H - ORIGINAL WELLBORE - PROPOS	1,200.00	1,199.57	40.62	32.52	5.019	SF
CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOS	600.00	600.00	31.48	27.61	8.132	CC
CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOS	700.00	699.84	31.73	27.16	6.941	ES
CE 5-68 11-10-12H - ORIGINAL WELLBORE - PROPOS	900.00	898.55	36.69	30.74	6.161	SF
CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOS	500.00	500.00	32.52	29.37	10.309	CC, ES
CE 5-68 11-10-13H - ORIGINAL WELLBORE - PROPOS	700.00	698.47	36.72	32.18	8.086	SF
CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOS	400.00	400.00	39.86	37.42	16.350	CC, ES
CE 5-68 11-10-14H - ORIGINAL WELLBORE - PROPOS	700.00	695.28	54.10	49.59	11.976	SF
CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOS	300.00	300.00	50.43	48.71	29.311	CC, ES
CE 5-68 11-10-15H - ORIGINAL WELLBORE - PROPOS	700.00	690.99	76.85	72.35	17.065	SF
<b>CE 5-68 11-10-6H - ORIGINAL WELLBORE - PROPOSA</b>	<b>2,200.00</b>	<b>2,200.00</b>	<b>18.22</b>	<b>2.88</b>	<b>1.187</b>	<b>Level 3, CC, ES</b>

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 11-10-5H
<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 11-10-5H	<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	15,837.79	15,478.31	484.75	72.77	1.177	Level 3, SF
CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSA	2,200.00	2,200.00	32.79	17.44	2.137	CC, ES
CE 5-68 11-10-7H - ORIGINAL WELLBORE - PROPOSA	15,837.79	15,423.00	883.97	435.00	1.969	SF
CE 5-68 11-10-8H - ORIGINAL WELLBORE - PROPOSA	4,178.90	4,102.22	39.20	5.12	1.150	Level 3, CC, ES, SF
CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSA	400.00	400.00	62.64	60.21	25.699	CC, ES
CE 5-68 11-10-9H - ORIGINAL WELLBORE - PROPOSA	15,837.79	15,427.56	1,762.35	1,307.70	3.876	SF
CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL	1,203.34	1,203.34	61.94	53.74	7.556	CC
CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL	1,300.00	1,298.96	62.35	53.47	7.018	ES
CE 5-68 11-3-1H - ORIGINAL WELLBORE - PROPOSAL	15,837.79	17,395.63	1,749.28	1,278.72	3.717	SF
CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL	1,303.35	1,303.35	47.36	38.44	5.313	CC
CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL	1,400.00	1,399.21	47.77	38.17	4.975	ES
CE 5-68 11-3-2H - ORIGINAL WELLBORE - PROPOSAL	15,837.79	17,011.19	1,327.13	859.26	2.837	SF
CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL	2,000.00	2,000.00	29.15	15.24	2.096	CC, ES
CE 5-68 11-3-3H - ORIGINAL WELLBORE - PROPOSAL	15,837.79	16,978.51	879.93	410.43	1.874	SF
CE 5-68 11-3-4H - ORIGINAL WELLBORE - PROPOSAL	2,100.00	2,100.00	14.57	-0.05	0.996	Level 3, CC, ES, SF
EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #	7,729.97	7,904.27	300.15	227.75	4.146	CC
EXIST HZ ENCORE 1C-12HZ - Wellbore #1 - Wellbore #	7,750.00	7,893.00	300.37	227.66	4.131	ES, SF
EXIST HZ ENCORE 26N-12HZ - Wellbore #1 - Wellbore #	7,691.89	7,814.53	66.11	-3.34	0.952	Level 3, CC, ES, SF
EXIST HZ ENCORE 40N-12HZ - Wellbore #1 - Wellbore #	4,620.02	4,666.98	142.17	95.97	3.077	CC, ES, SF
EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore #	7,037.31	7,878.97	676.07	609.53	10.161	CC, ES
EXIST HZ ENCORE 41N-12HZ - Wellbore #1 - Wellbore #	7,156.65	7,881.59	686.51	616.50	9.806	SF
EXIST HZ ENCORE 8C-12HZ - Wellbore #1 - Wellbore #	4,616.74	4,651.98	347.07	299.37	7.275	CC, ES, SF
EXIST HZ MIRACLE 13C-12HZ - Wellbore #1 - Wellbore #						Out of range
EXIST HZ MIRACLE 33N-12HZ - Wellbore #1 - Wellbore #						Out of range
EXIST HZ MIRACLE 40C-11HZ - ORIGINAL WELLBORE						Out of range
EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETR	6,603.90	13,628.00	2,284.16	2,099.07	12.340	CC
EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETR	6,700.00	13,628.00	2,286.19	2,097.74	12.132	ES
EXIST HZ MIRACLE 40C-11HZ - SIDETRACK - SIDETR	7,100.00	13,628.00	2,337.42	2,138.38	11.744	SF
EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore #	6,324.58	13,558.00	2,555.57	2,372.50	13.959	CC
EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore #	6,400.00	13,558.00	2,556.68	2,371.20	13.784	ES
EXIST HZ MIRACLE 40N-11HZ - Wellbore #1 - Wellbore #	6,900.00	13,557.14	2,619.55	2,421.92	13.254	SF
EXIST HZ MIRACLE 9C-11HZ - Wellbore #1 - Wellbore #	6,210.78	13,682.00	3,121.92	2,939.51	17.116	CC
EXIST HZ MIRACLE 9C-11HZ - Wellbore #1 - Wellbore #	6,300.00	13,682.00	3,123.19	2,938.34	16.895	ES
EXIST HZ MIRACLE 9C-11HZ - Wellbore #1 - Wellbore #	7,000.00	13,682.00	3,220.13	3,020.93	16.166	SF
EXIST HZ PROWANT 18-1HZ - Wellbore #1 - Wellbore #						Out of range
EXIST VERT JEFFERS 2-1 - Wellbore #1 - Design #1	10,340.16	7,290.00	2,123.97	1,896.94	9.356	CC
EXIST VERT JEFFERS 2-1 - Wellbore #1 - Design #1	10,400.00	7,290.00	2,124.81	1,895.68	9.273	ES
EXIST VERT JEFFERS 2-1 - Wellbore #1 - Design #1	10,900.00	7,290.00	2,196.51	1,952.18	8.990	SF
EXIST VERT JEFFERS 2-2 - Wellbore #1 - Design #1	11,412.40	7,257.00	777.86	523.76	3.061	CC, ES
EXIST VERT JEFFERS 2-2 - Wellbore #1 - Design #1	11,500.00	7,257.00	782.78	524.52	3.031	SF
EXIST VERT WICKED 1 - Wellbore #1 - Wellbore #1						Out of range

<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 Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</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>		<b>Minimum Separation (usft)</b>
700.00	700.00	1,691.00	1,652.78	2.29	8.05	59.87	1,566.77	2,699.44	3,264.82	3,256.24	8.59	380.246
800.00	800.00	1,760.61	1,719.26	2.65	8.48	59.94	1,553.42	2,683.70	3,235.68	3,226.47	9.21	351.339

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 11-10-5H
<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 11-10-5H	<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	900.00	1,832.82	1,788.44	3.01	8.92	60.01	1,539.65	2,668.24	3,207.53	3,197.68	9.85	325.695	
1,000.00	1,000.00	1,983.66	1,932.75	3.37	9.84	60.16	1,511.19	2,634.84	3,178.91	3,168.11	10.79	294.503	
1,100.00	1,100.00	2,061.46	2,007.12	3.73	10.32	60.21	1,497.76	2,616.39	3,149.72	3,138.26	11.46	274.851	
1,200.00	1,200.00	2,189.70	2,129.73	4.09	11.12	60.28	1,475.89	2,585.85	3,120.67	3,108.36	12.32	253.385	
1,300.00	1,300.00	2,283.24	2,218.82	4.45	11.72	60.35	1,458.89	2,562.95	3,090.39	3,077.34	13.05	236.892	
1,400.00	1,400.00	2,433.46	2,361.87	4.80	12.68	60.43	1,432.96	2,525.14	3,060.15	3,046.17	13.98	218.874	
1,500.00	1,500.00	2,548.36	2,470.70	5.16	13.44	60.45	1,413.96	2,493.58	3,028.07	3,013.29	14.79	204.787	
1,600.00	1,600.00	2,585.00	2,505.38	5.52	13.69	60.45	1,407.94	2,483.42	2,996.41	2,981.10	15.32	195.637	
1,700.00	1,700.00	2,676.00	2,592.10	5.88	14.27	60.46	1,393.79	2,459.74	2,966.10	2,950.06	16.04	184.966	
1,800.00	1,800.00	2,724.23	2,638.31	6.24	14.57	60.48	1,386.22	2,448.20	2,937.09	2,920.48	16.61	176.843	
1,900.00	1,900.00	2,849.09	2,757.59	6.60	15.35	60.61	1,362.91	2,419.60	2,907.93	2,890.47	17.46	166.592	
2,000.00	2,000.00	2,946.00	2,849.89	6.95	15.98	60.71	1,344.19	2,396.78	2,877.89	2,859.68	18.21	158.056	
2,100.00	2,100.00	3,014.00	2,914.80	7.31	16.41	60.77	1,332.07	2,380.51	2,848.39	2,829.54	18.86	151.050	
2,200.00	2,200.00	3,150.80	3,045.50	7.67	17.27	60.86	1,308.86	2,347.52	2,819.09	2,799.36	19.74	142.820	
2,300.00	2,299.98	3,211.00	3,102.86	8.03	17.66	60.72	1,297.73	2,332.99	2,788.36	2,767.99	20.37	136.893	
2,400.00	2,399.84	3,276.45	3,165.43	8.39	18.07	61.42	1,286.04	2,317.79	2,757.09	2,736.07	21.02	131.196	
2,500.00	2,499.45	3,411.03	3,294.44	8.75	18.90	62.38	1,263.36	2,286.90	2,724.99	2,703.10	21.89	124.496	
2,600.00	2,598.70	3,508.76	3,387.64	9.10	19.52	63.41	1,245.06	2,263.88	2,689.86	2,667.21	22.65	118.768	
2,700.00	2,697.47	3,567.00	3,443.25	9.47	19.89	64.37	1,233.92	2,250.63	2,653.95	2,630.66	23.29	113.963	
2,800.00	2,795.62	3,637.50	3,510.77	9.84	20.33	65.47	1,220.90	2,235.10	2,617.67	2,593.70	23.97	109.187	
2,900.00	2,893.06	3,829.65	3,694.04	10.23	21.56	67.44	1,186.97	2,188.49	2,578.42	2,553.38	25.05	102.949	
3,000.00	2,989.64	3,920.61	3,780.33	10.63	22.16	68.95	1,170.42	2,164.94	2,536.94	2,511.12	25.83	98.235	
3,100.00	3,085.27	3,992.97	3,848.99	11.05	22.64	70.44	1,157.10	2,146.43	2,494.82	2,468.24	26.58	93.875	
3,200.00	3,179.82	4,038.26	3,892.09	11.50	22.93	71.75	1,148.84	2,135.21	2,452.85	2,425.57	27.28	89.921	
3,300.00	3,273.17	4,096.00	3,947.43	11.98	23.30	73.24	1,138.98	2,122.01	2,412.07	2,384.02	28.05	85.996	
3,400.00	3,365.21	4,195.19	4,042.58	12.49	23.91	75.28	1,122.82	2,099.14	2,371.49	2,342.52	28.97	81.857	
3,500.00	3,455.84	4,315.31	4,157.01	13.04	24.68	77.75	1,102.74	2,068.61	2,328.60	2,298.61	29.99	77.635	
3,506.72	3,461.88	4,320.08	4,161.54	13.08	24.71	77.88	1,101.95	2,067.37	2,325.71	2,295.66	30.06	77.381	
3,600.00	3,545.62	4,398.83	4,236.47	13.62	25.23	78.98	1,088.96	2,046.91	2,285.99	2,255.02	30.97	73.816	
3,700.00	3,635.40	4,489.03	4,321.95	14.23	25.83	80.31	1,072.19	2,023.48	2,243.68	2,211.66	32.01	70.090	
3,800.00	3,725.17	4,555.12	4,384.61	14.85	26.27	81.32	1,060.10	2,006.32	2,202.54	2,169.50	33.04	66.658	
3,900.00	3,814.95	4,613.85	4,440.49	15.50	26.66	82.21	1,050.12	1,991.23	2,163.05	2,128.95	34.09	63.446	
4,000.00	3,904.73	4,668.08	4,492.27	16.15	27.00	83.04	1,041.54	1,977.61	2,125.41	2,090.24	35.17	60.437	
4,100.00	3,994.50	4,722.00	4,543.97	16.82	27.34	83.87	1,033.40	1,964.64	2,089.91	2,053.63	36.28	57.610	
4,200.00	4,084.28	4,775.41	4,595.37	17.51	27.66	84.70	1,025.64	1,952.37	2,056.57	2,019.16	37.41	54.967	
4,300.00	4,174.06	4,829.91	4,647.99	18.20	27.97	85.56	1,017.94	1,940.45	2,025.45	1,986.86	38.59	52.492	
4,400.00	4,263.83	4,883.01	4,699.44	18.90	28.27	86.41	1,010.71	1,929.49	1,996.70	1,956.92	39.78	50.194	
4,500.00	4,353.61	4,930.41	4,745.53	19.62	28.53	87.17	1,004.52	1,920.34	1,970.49	1,929.51	40.98	48.087	
4,600.00	4,443.38	4,987.00	4,800.83	20.33	28.82	88.08	997.58	1,910.53	1,947.21	1,905.00	42.22	46.125	
4,700.00	4,533.16	5,020.74	4,833.94	21.06	28.98	88.62	993.77	1,905.27	1,926.79	1,883.40	43.39	44.407	
4,800.00	4,622.94	5,076.00	4,888.40	21.79	29.24	89.50	988.31	1,897.69	1,909.54	1,864.92	44.63	42.789	
4,900.00	4,712.71	5,117.70	4,929.64	22.53	29.41	90.15	984.69	1,892.70	1,895.18	1,849.38	45.81	41.373	
5,000.00	4,802.49	5,164.00	4,975.53	23.27	29.60	90.87	980.99	1,887.77	1,883.68	1,836.69	46.99	40.084	
5,100.00	4,892.27	5,237.67	5,048.69	24.02	29.87	92.01	975.73	1,880.91	1,874.61	1,826.34	48.26	38.841	
5,200.00	4,982.04	5,292.02	5,102.77	24.77	30.06	92.84	972.36	1,876.62	1,868.08	1,818.64	49.44	37.781	
5,300.00	5,071.82	5,338.00	5,148.60	25.53	30.22	93.53	970.00	1,873.83	1,864.49	1,813.92	50.57	36.870	
5,400.00	5,161.59	5,418.00	5,228.46	26.29	30.46	94.70	967.14	1,870.11	1,863.21	1,811.42	51.80	35.972	
5,414.06	5,174.22	5,428.00	5,238.45	26.39	30.49	94.84	966.90	1,869.71	1,863.19	1,811.23	51.96	35.857 CC, ES	
5,500.00	5,251.37	5,476.79	5,287.21	27.05	30.62	95.53	965.94	1,868.16	1,864.17	1,811.27	52.91	35.236	
5,600.00	5,341.15	5,540.47	5,350.87	27.81	30.78	96.41	965.04	1,867.21	1,867.72	1,813.72	54.01	34.583	
5,700.00	5,430.92	5,618.12	5,428.51	28.58	30.97	97.48	964.12	1,866.71	1,873.13	1,817.99	55.14	33.968	
5,800.00	5,520.70	5,696.42	5,506.80	29.35	31.15	98.55	963.20	1,866.69	1,880.15	1,823.89	56.26	33.418	

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 11-10-5H
<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 11-10-5H	<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												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			
5,900.00	5,610.48	5,823.43	5,633.80	30.12	31.45	100.26	962.47	1,865.63	1,887.33	1,829.75	57.57	32.782			
6,000.00	5,700.25	5,919.10	5,729.46	30.90	31.70	101.54	962.12	1,863.89	1,894.69	1,835.95	58.74	32.256			
6,100.00	5,790.03	6,012.11	5,822.45	31.67	31.94	102.77	961.67	1,861.98	1,902.90	1,843.02	59.88	31.779			
6,200.00	5,879.81	6,100.37	5,910.68	32.45	32.17	103.94	961.28	1,860.06	1,911.99	1,851.00	60.99	31.351			
6,300.00	5,969.58	6,187.55	5,997.85	33.23	32.40	105.08	960.74	1,858.30	1,922.25	1,860.18	62.07	30.969			
6,400.00	6,059.36	6,273.41	6,083.70	34.01	32.63	106.20	960.21	1,856.63	1,933.54	1,870.41	63.13	30.627			
6,500.00	6,149.13	6,362.35	6,172.62	34.79	32.87	107.34	959.66	1,855.12	1,946.01	1,881.82	64.18	30.319			
6,600.00	6,238.91	6,455.34	6,265.59	35.58	33.12	108.53	959.21	1,853.39	1,959.23	1,894.00	65.23	30.034			
6,700.00	6,328.69	6,543.01	6,353.24	36.36	33.35	109.63	958.69	1,851.69	1,973.35	1,907.11	66.24	29.790			
6,800.00	6,418.46	6,627.70	6,437.92	37.15	33.58	110.68	958.28	1,850.26	1,988.53	1,921.31	67.22	29.583			
6,900.00	6,508.24	6,714.72	6,524.93	37.94	33.81	111.74	957.77	1,848.98	2,004.80	1,936.62	68.18	29.403			
7,000.00	6,598.02	6,807.20	6,617.39	38.73	34.07	112.86	957.23	1,847.58	2,021.89	1,952.74	69.15	29.238			
7,100.00	6,687.79	6,895.22	6,705.40	39.52	34.31	113.91	956.63	1,846.08	2,039.71	1,969.62	70.09	29.103			
7,156.65	6,738.65	6,942.77	6,752.94	39.96	34.44	114.47	956.30	1,845.37	2,050.26	1,979.66	70.59	29.043			
7,200.00	6,777.55	6,981.63	6,791.79	40.31	34.54	114.14	956.04	1,844.82	2,059.96	1,988.98	70.98	29.020 SF			
7,250.00	6,822.15	7,026.25	6,836.41	40.70	34.67	113.94	955.74	1,844.19	2,074.83	2,003.42	71.41	29.055			
7,300.00	6,866.16	7,080.04	6,890.19	41.09	34.82	114.01	955.30	1,843.25	2,093.35	2,021.50	71.85	29.134			
7,350.00	6,909.24	7,127.57	6,937.70	41.47	34.95	114.01	954.81	1,842.13	2,115.26	2,043.03	72.24	29.283			
7,400.00	6,951.05	7,163.25	6,973.38	41.83	35.05	114.94	954.55	1,841.40	2,140.59	2,068.05	72.53	29.511			
7,450.00	6,991.29	7,204.00	7,014.12	42.19	35.17	116.11	954.47	1,840.83	2,169.17	2,096.34	72.83	29.785			
7,500.00	7,029.64	7,233.19	7,043.31	42.53	35.24	117.68	954.47	1,840.54	2,200.70	2,127.66	73.03	30.133			
7,550.00	7,065.81	7,267.36	7,077.48	42.86	35.34	-178.02	954.45	1,840.21	2,234.90	2,161.67	73.23	30.517			
7,600.00	7,099.54	7,299.09	7,109.21	43.17	35.42	-171.77	954.41	1,839.93	2,271.49	2,198.10	73.39	30.949			
7,650.00	7,130.55	7,327.81	7,137.93	43.47	35.50	-165.34	954.34	1,839.70	2,310.20	2,236.69	73.51	31.426			
7,700.00	7,158.62	7,353.79	7,163.91	43.76	35.57	-158.47	954.25	1,839.50	2,350.74	2,277.14	73.59	31.942			
7,750.00	7,183.53	7,376.83	7,186.95	44.03	35.63	-150.93	954.14	1,839.33	2,392.82	2,319.18	73.64	32.494			
7,800.00	7,205.09	7,397.18	7,207.30	44.30	35.69	-142.54	954.02	1,839.20	2,436.13	2,362.48	73.65	33.078			
7,850.00	7,223.14	7,414.43	7,224.55	44.55	35.73	-133.22	953.92	1,839.08	2,480.38	2,406.75	73.62	33.690			
7,900.00	7,237.54	7,428.24	7,238.35	44.80	35.77	-123.07	953.82	1,838.99	2,525.25	2,451.68	73.57	34.325			
7,950.00	7,248.18	7,438.51	7,248.63	45.04	35.80	-112.49	953.75	1,838.93	2,570.45	2,496.96	73.48	34.980			
8,000.00	7,254.98	7,445.18	7,255.30	45.28	35.82	-102.07	953.70	1,838.89	2,615.66	2,542.29	73.37	35.649			
8,050.00	7,257.88	7,448.20	7,258.32	45.51	35.83	-92.43	953.67	1,838.87	2,660.57	2,587.34	73.24	36.329			
8,062.16	7,258.00	7,448.38	7,258.50	45.57	35.83	-90.26	953.67	1,838.87	2,671.42	2,598.22	73.20	36.495			
8,100.00	7,258.00	7,448.60	7,258.72	45.75	35.83	-90.27	953.67	1,838.87	2,705.16	2,632.07	73.09	37.012			
8,200.00	7,258.00	7,449.19	7,259.31	46.30	35.83	-90.30	953.67	1,838.86	2,794.84	2,722.02	72.82	38.382			
8,300.00	7,258.00	7,449.78	7,259.89	46.98	35.83	-90.32	953.66	1,838.86	2,885.19	2,812.62	72.57	39.757			
8,400.00	7,258.00	7,450.36	7,260.48	47.79	35.83	-90.35	953.66	1,838.86	2,976.16	2,903.81	72.35	41.135			
8,500.00	7,258.00	7,450.95	7,261.06	48.75	35.83	-90.38	953.65	1,838.85	3,067.70	2,995.54	72.15	42.516			
8,600.00	7,258.00	7,451.53	7,261.64	49.84	35.84	-90.41	953.65	1,838.85	3,159.75	3,087.77	71.98	43.900			
8,700.00	7,258.00	7,452.11	7,262.22	51.09	35.84	-90.43	953.64	1,838.85	3,252.26	3,180.45	71.82	45.286			

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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)				
900.00	900.00	2,122.13	2,055.50	3.01	11.11	54.89	1,756.70	2,498.65	3,267.06	3,255.24	11.82	276.456		
1,000.00	1,000.00	2,190.11	2,118.21	3.37	11.63	54.67	1,752.50	2,472.73	3,231.87	3,219.36	12.51	258.265		
1,100.00	1,100.00	2,261.10	2,183.92	3.73	12.18	54.44	1,748.46	2,446.18	3,197.58	3,184.34	13.23	241.639		
1,200.00	1,200.00	2,384.22	2,297.22	4.09	13.15	53.98	1,743.96	2,398.21	3,163.14	3,148.92	14.22	222.422		
1,300.00	1,300.00	2,551.37	2,448.55	4.45	14.59	53.22	1,740.11	2,327.38	3,126.19	3,110.70	15.49	201.809		
1,400.00	1,400.00	2,585.00	2,478.89	4.80	14.88	53.05	1,739.45	2,312.89	3,089.95	3,073.85	16.09	191.989		
1,500.00	1,500.00	2,651.21	2,539.03	5.16	15.44	52.74	1,738.26	2,285.25	3,054.80	3,037.94	16.87	181.127		
1,600.00	1,600.00	2,731.45	2,612.54	5.52	16.11	52.37	1,737.27	2,253.09	3,021.23	3,003.52	17.72	170.537		
1,700.00	1,700.00	2,860.63	2,730.12	5.88	17.21	51.71	1,736.43	2,199.58	2,987.10	2,968.26	18.84	158.572		
1,800.00	1,800.00	2,931.72	2,795.09	6.24	17.80	51.37	1,734.67	2,170.80	2,952.90	2,933.25	19.65	150.293		
1,900.00	1,900.00	3,011.15	2,868.17	6.60	18.45	51.02	1,731.65	2,139.83	2,919.35	2,898.86	20.49	142.475		
2,000.00	2,000.00	3,107.13	2,956.63	6.95	19.22	50.59	1,727.80	2,102.77	2,886.12	2,864.72	21.41	134.812		
2,100.00	2,100.00	3,206.25	3,047.83	7.31	20.03	50.13	1,723.85	2,064.16	2,852.79	2,830.43	22.35	127.615		
2,200.00	2,200.00	3,300.00	3,133.55	7.67	20.82	49.65	1,721.54	2,026.28	2,819.31	2,796.00	23.31	120.948		
2,300.00	2,299.98	3,357.24	3,186.06	8.03	21.29	49.14	1,720.12	2,003.54	2,785.53	2,761.44	24.08	115.672		
2,400.00	2,399.84	3,426.49	3,250.22	8.39	21.84	49.43	1,717.89	1,977.59	2,750.94	2,726.05	24.89	110.504		
2,500.00	2,499.45	3,537.37	3,353.01	8.75	22.71	49.65	1,714.02	1,936.19	2,714.36	2,688.48	25.88	104.873		
2,600.00	2,598.70	3,633.75	3,442.17	9.10	23.48	50.03	1,710.14	1,899.80	2,675.08	2,648.28	26.80	99.816		
2,700.00	2,697.47	3,726.85	3,528.15	9.47	24.23	50.50	1,706.98	1,864.22	2,633.81	2,606.10	27.70	95.075		
2,800.00	2,795.62	3,824.60	3,618.53	9.84	25.01	51.09	1,702.85	1,827.23	2,590.35	2,561.74	28.61	90.539		
2,900.00	2,893.06	4,013.88	3,792.67	10.23	26.55	51.76	1,692.92	1,753.75	2,544.27	2,514.39	29.88	85.155		
3,000.00	2,989.64	4,096.00	3,867.32	10.63	27.26	52.68	1,686.98	1,720.04	2,492.90	2,462.20	30.71	81.185		
3,100.00	3,085.27	4,159.24	3,924.92	11.05	27.80	53.71	1,682.51	1,694.34	2,440.26	2,408.81	31.45	77.586		
3,200.00	3,179.82	4,207.43	3,969.22	11.50	28.20	54.81	1,679.43	1,675.63	2,387.37	2,355.24	32.14	74.285		
3,300.00	3,273.17	4,277.00	4,033.28	11.98	28.77	56.03	1,676.64	1,648.62	2,334.05	2,301.14	32.91	70.924		
3,400.00	3,365.21	4,333.34	4,085.02	12.49	29.24	57.29	1,675.69	1,626.35	2,279.78	2,246.13	33.66	67.736		
3,500.00	3,455.84	4,441.14	4,183.25	13.04	30.16	58.83	1,675.01	1,581.96	2,223.45	2,188.81	34.64	64.182		
3,506.72	3,461.88	4,473.99	4,213.05	13.08	30.45	59.05	1,674.66	1,568.17	2,219.57	2,184.75	34.81	63.754		
3,600.00	3,545.62	4,544.00	4,276.42	13.62	31.07	59.37	1,673.57	1,538.42	2,165.06	2,129.45	35.61	60.803		
3,700.00	3,635.40	4,615.09	4,341.00	14.23	31.69	59.73	1,672.15	1,508.73	2,106.97	2,070.53	36.44	57.819		
3,800.00	3,725.17	4,671.88	4,392.98	14.85	32.17	60.06	1,670.61	1,485.92	2,049.73	2,012.52	37.22	55.072		
3,900.00	3,814.95	4,722.00	4,439.27	15.50	32.58	60.39	1,668.91	1,466.77	1,993.65	1,955.67	37.98	52.490		
4,000.00	3,904.73	4,787.37	4,500.08	16.15	33.08	60.88	1,666.36	1,442.92	1,938.66	1,899.89	38.77	50.000		
4,100.00	3,994.50	4,845.95	4,554.92	16.82	33.52	61.36	1,663.86	1,422.50	1,884.77	1,845.23	39.55	47.659		
4,200.00	4,084.28	4,916.82	4,621.76	17.51	34.03	62.01	1,660.41	1,399.19	1,832.15	1,791.81	40.34	45.419		
4,300.00	4,174.06	5,018.68	4,717.40	18.20	34.76	62.99	1,654.65	1,364.62	1,778.56	1,737.39	41.17	43.198		
4,400.00	4,263.83	5,076.00	4,771.51	18.90	35.17	63.60	1,651.41	1,345.98	1,726.32	1,684.37	41.95	41.148		
4,500.00	4,353.61	5,109.69	4,803.56	19.62	35.38	63.98	1,649.64	1,335.76	1,676.11	1,633.40	42.71	39.246		
4,600.00	4,443.38	5,164.00	4,855.72	20.33	35.72	64.62	1,647.20	1,320.83	1,628.60	1,585.12	43.48	37.458		
4,700.00	4,533.16	5,200.15	4,890.67	21.06	35.93	65.08	1,645.86	1,311.70	1,583.40	1,539.18	44.22	35.804		
4,800.00	4,622.94	5,252.00	4,940.97	21.79	36.21	65.74	1,644.37	1,299.21	1,540.47	1,495.49	44.99	34.244		
4,900.00	4,712.71	5,311.95	4,999.40	22.53	36.52	66.54	1,643.08	1,285.85	1,499.75	1,454.00	45.75	32.780		
5,000.00	4,802.49	5,368.67	5,054.95	23.27	36.79	67.33	1,642.04	1,274.46	1,461.43	1,414.92	46.51	31.423		
5,100.00	4,892.27	5,428.00	5,113.32	24.02	37.06	68.22	1,640.96	1,263.91	1,425.59	1,378.33	47.26	30.164		
5,200.00	4,982.04	5,487.98	5,172.55	24.77	37.30	69.16	1,639.88	1,254.54	1,392.25	1,344.25	48.00	29.004		
5,300.00	5,071.82	5,552.25	5,236.21	25.53	37.54	70.23	1,638.81	1,245.73	1,361.41	1,312.66	48.75	27.927		
5,400.00	5,161.59	5,619.21	5,302.69	26.29	37.78	71.38	1,637.66	1,237.77	1,333.01	1,283.50	49.51	26.926		
5,500.00	5,251.37	5,696.00	5,379.06	27.05	38.04	72.78	1,636.19	1,229.93	1,306.99	1,256.69	50.30	25.984		
5,600.00	5,341.15	5,760.59	5,443.39	27.81	38.23	74.01	1,634.58	1,224.41	1,283.33	1,232.28	51.06	25.136		
5,700.00	5,430.92	5,819.59	5,502.23	28.58	38.39	75.18	1,632.81	1,220.41	1,262.50	1,210.71	51.79	24.377		
5,800.00	5,520.70	5,874.00	5,556.58	29.35	38.53	76.28	1,631.74	1,218.16	1,245.51	1,193.01	52.50	23.726		
5,900.00	5,610.48	5,953.34	5,635.89	30.12	38.70	77.89	1,630.68	1,216.19	1,231.58	1,178.22	53.36	23.079		

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 11-10-5H
<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 11-10-5H	<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)				
6,000.00	5,700.25	6,037.32	5,719.85	30.90	38.88	79.63	1,629.60	1,214.58	1,219.69	1,165.39	54.30	22.463		
6,100.00	5,790.03	6,125.26	5,807.77	31.67	39.06	81.48	1,628.44	1,213.14	1,209.62	1,154.32	55.30	21.872		
6,200.00	5,879.81	6,215.22	5,897.70	32.45	39.25	83.39	1,627.40	1,211.66	1,201.18	1,144.81	56.37	21.309		
6,300.00	5,969.58	6,302.64	5,985.11	33.23	39.43	85.26	1,626.58	1,210.21	1,194.39	1,136.93	57.46	20.786		
6,400.00	6,059.36	6,376.00	6,058.46	34.01	39.58	86.83	1,625.89	1,209.48	1,189.88	1,131.41	58.47	20.350		
6,500.00	6,149.13	6,459.88	6,142.34	34.79	39.73	88.63	1,625.55	1,209.69	1,188.13	1,128.55	59.58	19.942		
6,564.91	6,207.41	6,520.26	6,202.72	35.30	39.84	89.92	1,625.25	1,209.77	1,187.83	1,127.46	60.37	19.677	CC	
6,600.00	6,238.91	6,552.63	6,235.09	35.58	39.90	90.62	1,625.03	1,209.77	1,187.92	1,127.12	60.80	19.540	ES	
6,700.00	6,328.69	6,645.03	6,327.49	36.36	40.07	92.62	1,624.23	1,209.63	1,189.17	1,127.13	62.04	19.168		
6,800.00	6,418.46	6,740.30	6,422.75	37.15	40.27	94.67	1,623.34	1,209.14	1,191.80	1,128.47	63.33	18.818		
6,900.00	6,508.24	6,835.02	6,517.47	37.94	40.47	96.70	1,622.63	1,208.18	1,195.65	1,131.01	64.64	18.498		
7,000.00	6,598.02	6,924.21	6,606.64	38.73	40.67	98.60	1,622.05	1,207.09	1,200.94	1,135.04	65.90	18.224		
7,100.00	6,687.79	7,020.78	6,703.20	39.52	40.88	100.64	1,621.39	1,205.70	1,207.69	1,140.47	67.22	17.966		
7,156.65	6,738.65	7,072.22	6,754.63	39.96	41.00	101.72	1,621.13	1,204.77	1,212.02	1,144.09	67.94	17.840		
7,200.00	6,777.55	7,111.19	6,793.60	40.31	41.09	111.42	1,621.03	1,204.08	1,217.26	1,148.79	68.47	17.777	SF	
7,250.00	6,822.15	7,152.87	6,835.28	40.70	41.19	122.12	1,620.93	1,203.40	1,227.57	1,158.53	69.05	17.779		
7,300.00	6,866.16	7,193.67	6,876.07	41.09	41.29	131.92	1,620.75	1,202.82	1,242.38	1,172.80	69.58	17.856		
7,350.00	6,909.24	7,235.00	6,917.39	41.47	41.38	140.62	1,620.50	1,202.30	1,261.48	1,191.40	70.08	18.001		
7,400.00	6,951.05	7,275.61	6,958.00	41.83	41.47	148.25	1,620.25	1,201.84	1,284.58	1,214.04	70.54	18.211		
7,450.00	6,991.29	7,313.20	6,995.59	42.19	41.56	154.93	1,620.01	1,201.46	1,311.45	1,240.52	70.93	18.489		
7,500.00	7,029.64	7,347.78	7,030.17	42.53	41.63	160.92	1,619.74	1,201.19	1,341.87	1,270.60	71.26	18.830		
7,550.00	7,065.81	7,384.00	7,066.38	42.86	41.71	166.50	1,619.41	1,201.01	1,375.55	1,303.97	71.57	19.219		
7,600.00	7,099.54	7,413.30	7,095.68	43.17	41.77	171.83	1,619.13	1,200.91	1,412.12	1,340.33	71.79	19.671		
7,650.00	7,130.55	7,444.06	7,126.44	43.47	41.84	177.25	1,618.85	1,200.81	1,451.25	1,379.27	71.99	20.160		
7,700.00	7,158.62	7,471.91	7,154.28	43.76	41.90	-176.98	1,618.61	1,200.74	1,492.62	1,420.49	72.13	20.693		
7,750.00	7,183.53	7,497.13	7,179.50	44.03	41.95	-170.50	1,618.41	1,200.67	1,535.89	1,463.66	72.23	21.264		
7,800.00	7,205.09	7,519.01	7,201.38	44.30	42.00	-162.80	1,618.26	1,200.62	1,580.76	1,508.48	72.28	21.869		
7,850.00	7,223.14	7,537.35	7,219.73	44.55	42.04	-153.27	1,618.15	1,200.58	1,626.89	1,554.60	72.29	22.505		
7,900.00	7,237.54	7,552.02	7,234.39	44.80	42.07	-141.23	1,618.07	1,200.54	1,673.97	1,601.71	72.25	23.168		
7,950.00	7,248.18	7,562.88	7,245.26	45.04	42.09	-126.42	1,618.01	1,200.52	1,721.66	1,649.48	72.18	23.852		
8,000.00	7,254.98	7,570.29	7,252.67	45.28	42.11	-109.86	1,617.98	1,200.50	1,769.64	1,697.57	72.08	24.552		
8,050.00	7,257.88	7,573.55	7,255.93	45.51	42.11	-93.79	1,617.96	1,200.49	1,817.58	1,745.64	71.94	25.265		
8,062.16	7,258.00	7,573.71	7,256.09	45.57	42.11	-90.22	1,617.96	1,200.49	1,829.20	1,757.30	71.90	25.440		
8,100.00	7,258.00	7,573.82	7,256.20	45.75	42.11	-90.23	1,617.96	1,200.49	1,865.34	1,793.56	71.78	25.985		
8,200.00	7,258.00	7,574.11	7,256.49	46.30	42.11	-90.26	1,617.96	1,200.49	1,961.16	1,889.67	71.50	27.429		
8,300.00	7,258.00	7,574.40	7,256.78	46.98	42.12	-90.29	1,617.96	1,200.49	2,057.38	1,986.14	71.25	28.877		
8,400.00	7,258.00	7,574.70	7,257.07	47.79	42.12	-90.32	1,617.96	1,200.49	2,153.95	2,082.93	71.02	30.328		
8,500.00	7,258.00	7,574.99	7,257.37	48.75	42.12	-90.35	1,617.96	1,200.49	2,250.81	2,179.99	70.82	31.782		
8,600.00	7,258.00	7,575.29	7,257.66	49.84	42.12	-90.38	1,617.96	1,200.49	2,347.94	2,277.30	70.64	33.238		
8,700.00	7,258.00	7,575.59	7,257.97	51.09	42.12	-90.42	1,617.95	1,200.49	2,445.30	2,374.82	70.48	34.697		
8,800.00	7,258.00	7,575.89	7,258.27	52.47	42.12	-90.45	1,617.95	1,200.49	2,542.86	2,472.53	70.33	36.156		
8,900.00	7,258.00	7,576.20	7,258.58	53.99	42.12	-90.48	1,617.95	1,200.48	2,640.61	2,570.41	70.20	37.617		
9,000.00	7,258.00	7,576.51	7,258.88	55.62	42.12	-90.51	1,617.95	1,200.48	2,738.52	2,668.44	70.08	39.078		
9,100.00	7,258.00	7,576.82	7,259.20	57.37	42.12	-90.54	1,617.95	1,200.48	2,836.57	2,766.60	69.97	40.540		
9,200.00	7,258.00	7,577.14	7,259.51	59.21	42.12	-90.58	1,617.95	1,200.48	2,934.76	2,864.89	69.87	42.003		
9,300.00	7,258.00	7,577.45	7,259.83	61.14	42.12	-90.61	1,617.95	1,200.48	3,033.06	2,963.28	69.78	43.466		
9,400.00	7,258.00	7,577.77	7,260.15	63.14	42.12	-90.64	1,617.94	1,200.48	3,131.47	3,061.77	69.70	44.929		
9,500.00	7,258.00	7,578.10	7,260.47	65.21	42.12	-90.68	1,617.94	1,200.48	3,229.98	3,160.36	69.62	46.391		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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: 16-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			
400.00	400.00	2,032.28	1,925.82	1.22	12.16	61.31	1,381.07	2,523.38	3,258.56	3,249.05	9.51	342.575			
500.00	500.00	2,081.61	1,969.20	1.58	12.60	61.42	1,365.18	2,506.07	3,212.07	3,202.06	10.01	320.872			
600.00	600.00	2,131.00	2,012.94	1.94	13.05	61.54	1,349.45	2,489.37	3,166.79	3,156.25	10.54	300.493			
700.00	700.00	2,192.24	2,067.44	2.29	13.59	61.69	1,330.07	2,469.27	3,122.49	3,111.34	11.14	280.204			
800.00	800.00	2,254.15	2,122.73	2.65	14.13	61.85	1,310.61	2,449.32	3,078.92	3,067.15	11.77	261.691			
900.00	900.00	2,311.00	2,173.77	3.01	14.62	61.99	1,293.25	2,431.30	3,036.27	3,023.90	12.37	245.367			
1,000.00	1,000.00	2,348.58	2,207.76	3.37	14.93	62.08	1,282.22	2,419.68	2,994.95	2,982.05	12.90	232.163			
1,100.00	1,100.00	2,401.00	2,255.69	3.73	15.36	62.20	1,267.74	2,404.16	2,955.39	2,941.89	13.50	218.934			
1,200.00	1,200.00	2,679.64	2,508.02	4.09	17.71	62.68	1,194.24	2,311.88	2,914.62	2,899.58	15.04	193.765			
1,300.00	1,300.00	2,713.04	2,537.96	4.45	18.00	62.74	1,185.30	2,300.07	2,870.58	2,855.01	15.57	184.353			
1,400.00	1,400.00	2,761.00	2,581.22	4.80	18.42	62.83	1,172.35	2,283.93	2,828.05	2,811.89	16.17	174.945			
1,500.00	1,500.00	2,837.01	2,650.08	5.16	19.07	62.99	1,151.79	2,259.16	2,786.51	2,769.63	16.88	165.084			
1,600.00	1,600.00	2,976.69	2,776.25	5.52	20.27	63.23	1,115.51	2,211.47	2,744.14	2,726.30	17.84	153.818			
1,700.00	1,700.00	3,052.18	2,844.22	5.88	20.92	63.36	1,096.17	2,184.93	2,701.15	2,682.60	18.55	145.621			
1,800.00	1,800.00	3,117.00	2,903.02	6.24	21.47	63.45	1,080.50	2,162.61	2,659.34	2,640.12	19.22	138.377			
1,900.00	1,900.00	3,173.58	2,954.61	6.60	21.94	63.54	1,067.13	2,143.63	2,618.53	2,598.67	19.86	131.865			
2,000.00	2,000.00	3,296.22	3,066.29	6.95	22.96	63.76	1,036.79	2,103.02	2,577.85	2,557.11	20.74	124.265			
2,100.00	2,100.00	3,368.66	3,132.09	7.31	23.57	63.90	1,018.50	2,078.87	2,536.65	2,515.19	21.46	118.223			
2,200.00	2,200.00	3,438.01	3,195.23	7.67	24.15	64.06	1,000.57	2,056.50	2,496.15	2,473.99	22.17	112.616			
2,300.00	2,299.98	3,517.19	3,267.46	8.03	24.80	64.34	979.14	2,032.14	2,455.71	2,432.79	22.92	107.133			
2,400.00	2,399.84	3,669.78	3,406.17	8.39	26.08	65.79	938.92	1,982.92	2,413.07	2,389.13	23.94	100.783			
2,500.00	2,499.45	3,739.00	3,468.93	8.75	26.67	67.05	921.06	1,959.82	2,368.41	2,343.73	24.68	95.967			
2,600.00	2,598.70	3,829.74	3,551.33	9.10	27.44	68.54	897.82	1,929.75	2,323.01	2,297.51	25.50	91.105			
2,700.00	2,697.47	3,968.49	3,676.16	9.47	28.65	70.57	861.43	1,881.33	2,274.60	2,248.12	26.49	85.877			
2,800.00	2,795.62	4,071.56	3,768.38	9.84	29.57	72.60	833.04	1,845.11	2,225.07	2,197.68	27.39	81.228			
2,900.00	2,893.06	4,144.13	3,833.05	10.23	30.23	74.52	812.41	1,819.44	2,174.45	2,146.20	28.25	76.981			
3,000.00	2,989.64	4,202.28	3,884.99	10.63	30.75	76.39	795.60	1,799.44	2,124.14	2,095.04	29.10	72.989			
3,100.00	3,085.27	4,253.03	3,930.55	11.05	31.19	78.23	780.90	1,782.60	2,074.71	2,044.73	29.99	69.187			
3,200.00	3,179.82	4,346.04	4,014.14	11.50	32.01	80.85	753.43	1,752.45	2,025.98	1,994.90	31.08	65.189			
3,300.00	3,273.17	4,412.63	4,073.68	11.98	32.60	83.17	733.12	1,730.61	1,977.19	1,945.03	32.17	61.470			
3,400.00	3,365.21	4,486.61	4,140.08	12.49	33.25	85.71	711.21	1,706.47	1,929.70	1,896.35	33.36	57.846			
3,500.00	3,455.84	4,581.13	4,224.69	13.04	34.09	88.79	683.98	1,674.30	1,882.65	1,847.95	34.70	54.251			
3,506.72	3,461.88	4,586.61	4,229.59	13.08	34.14	88.98	682.45	1,672.39	1,879.52	1,844.73	34.79	54.021			
3,600.00	3,545.62	4,661.98	4,296.97	13.62	34.82	90.67	661.68	1,645.75	1,836.63	1,800.54	36.09	50.891			
3,700.00	3,635.40	4,733.10	4,359.98	14.23	35.47	92.37	640.10	1,620.82	1,792.10	1,754.53	37.57	47.706			
3,800.00	3,725.17	4,791.59	4,411.65	14.85	36.01	93.82	621.57	1,600.62	1,749.80	1,710.69	39.11	44.738			
3,900.00	3,814.95	4,868.89	4,479.82	15.50	36.73	95.79	596.72	1,573.96	1,709.81	1,668.99	40.82	41.887			
4,000.00	3,904.73	4,949.33	4,550.51	16.15	37.49	97.90	571.01	1,545.49	1,671.71	1,629.09	42.62	39.226			
4,100.00	3,994.50	5,061.47	4,649.31	16.82	38.55	100.85	538.47	1,503.58	1,635.24	1,590.71	44.53	36.719			
4,200.00	4,084.28	5,138.04	4,716.45	17.51	39.28	102.89	517.43	1,473.39	1,599.93	1,553.52	46.40	34.478			
4,300.00	4,174.06	5,190.07	4,762.31	18.20	39.77	104.28	503.95	1,452.84	1,567.43	1,519.16	48.27	32.472			
4,400.00	4,263.83	5,247.00	4,813.13	18.90	40.30	105.80	490.07	1,431.27	1,538.82	1,488.65	50.17	30.671			
4,500.00	4,353.61	5,247.00	4,813.13	19.62	40.30	105.80	490.07	1,431.27	1,514.61	1,462.65	51.96	29.152			
4,600.00	4,443.38	5,303.26	4,864.31	20.33	40.75	107.29	477.32	1,411.70	1,494.42	1,440.59	53.83	27.761			
4,700.00	4,533.16	5,337.00	4,895.55	21.06	41.03	108.17	470.17	1,401.16	1,479.46	1,423.85	55.61	26.602			
4,800.00	4,622.94	5,386.79	4,942.06	21.79	41.39	109.46	459.83	1,386.70	1,469.05	1,411.67	57.38	25.603			
4,900.00	4,712.71	5,440.92	4,992.87	22.53	41.78	110.86	448.46	1,371.91	1,462.87	1,403.76	59.10	24.750			
5,000.00	4,802.49	5,514.00	5,061.75	23.27	42.29	112.74	433.53	1,352.58	1,460.22	1,399.37	60.84	23.999			
5,031.77	4,831.01	5,529.08	5,076.01	23.51	42.39	113.12	430.55	1,348.68	1,460.07	1,398.73	61.34	23.801 CC			
5,100.00	4,892.27	5,566.50	5,111.55	24.02	42.63	114.06	423.42	1,339.40	1,461.13	1,398.73	62.40	23.414 ES			
5,200.00	4,982.04	5,627.70	5,170.10	24.77	43.02	115.56	412.55	1,325.30	1,465.91	1,402.01	63.91	22.939			
5,300.00	5,071.82	5,693.00	5,232.84	25.53	43.41	117.13	401.52	1,310.94	1,473.84	1,408.51	65.33	22.561			

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 11-10-5H
<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 11-10-5H	<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: 16-OWSG (Rev2) MWD											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,400.00	5,161.59	5,755.15	5,292.95	26.29	43.75	118.57	391.88	1,298.44	1,485.08	1,418.46	66.62	22.292		
5,500.00	5,251.37	5,822.26	5,358.40	27.05	44.09	120.05	382.77	1,286.78	1,499.69	1,431.86	67.83	22.111		
5,600.00	5,341.15	5,905.66	5,440.08	27.81	44.48	121.81	372.51	1,273.36	1,516.72	1,447.71	69.01	21.979		
5,700.00	5,430.92	5,992.48	5,525.41	28.58	44.86	123.55	363.68	1,260.06	1,535.14	1,465.03	70.11	21.895		
5,800.00	5,520.70	6,065.18	5,597.15	29.35	45.16	124.94	357.34	1,250.12	1,555.65	1,484.57	71.08	21.885 SF		
5,900.00	5,610.48	6,139.89	5,671.09	30.12	45.45	126.29	351.51	1,241.11	1,578.28	1,506.30	71.98	21.926		
6,000.00	5,700.25	6,229.35	5,759.87	30.90	45.76	127.81	345.93	1,231.71	1,602.42	1,529.55	72.87	21.990		
6,100.00	5,790.03	6,315.00	5,845.06	31.67	46.03	129.17	342.06	1,223.77	1,627.58	1,553.89	73.68	22.089		
6,200.00	5,879.81	6,399.74	5,929.50	32.45	46.27	130.42	339.40	1,217.15	1,653.88	1,579.45	74.43	22.220		
6,300.00	5,969.58	6,478.40	6,007.99	33.23	46.47	131.51	337.77	1,212.33	1,681.52	1,606.40	75.12	22.385		
6,400.00	6,059.36	6,559.04	6,088.54	34.01	46.66	132.55	336.66	1,208.60	1,710.43	1,634.67	75.77	22.575		
6,500.00	6,149.13	6,645.60	6,175.05	34.79	46.85	133.60	336.12	1,205.71	1,740.35	1,663.94	76.41	22.777		
6,600.00	6,238.91	6,728.81	6,258.23	35.58	47.02	134.57	335.85	1,203.42	1,771.05	1,694.04	77.01	22.998		
6,700.00	6,328.69	6,812.68	6,342.07	36.36	47.19	135.50	335.64	1,201.69	1,802.67	1,725.07	77.60	23.231		
6,800.00	6,418.46	6,904.05	6,433.43	37.15	47.37	136.47	335.50	1,200.13	1,834.96	1,756.76	78.19	23.466		
6,900.00	6,508.24	6,992.13	6,521.51	37.94	47.54	137.36	335.70	1,198.85	1,867.61	1,788.84	78.77	23.711		
7,000.00	6,598.02	7,076.12	6,605.49	38.73	47.70	138.18	335.92	1,198.02	1,900.95	1,821.64	79.31	23.969		
7,100.00	6,687.79	7,162.46	6,691.83	39.52	47.86	138.99	336.04	1,197.43	1,934.96	1,855.11	79.85	24.232		
7,156.65	6,738.65	7,213.67	6,743.03	39.96	47.96	139.46	336.12	1,197.16	1,954.44	1,874.27	80.16	24.380		
7,200.00	6,777.55	7,255.82	6,785.19	40.31	48.04	149.92	336.20	1,196.86	1,970.34	1,889.92	80.41	24.502		
7,250.00	6,822.15	7,302.87	6,832.23	40.70	48.12	161.65	336.30	1,196.42	1,990.94	1,910.25	80.69	24.674		
7,300.00	6,866.16	7,345.31	6,874.67	41.09	48.21	172.55	336.40	1,196.05	2,013.86	1,932.92	80.94	24.881		
7,350.00	6,909.24	7,386.60	6,915.96	41.47	48.29	-177.59	336.51	1,195.75	2,038.93	1,957.75	81.18	25.116		
7,400.00	6,951.05	7,425.06	6,954.42	41.83	48.36	-168.73	336.58	1,195.54	2,065.97	1,984.57	81.40	25.380		
7,450.00	6,991.29	7,462.00	6,991.36	42.19	48.43	-160.73	336.61	1,195.38	2,094.79	2,013.19	81.61	25.670		
7,500.00	7,029.64	7,501.32	7,030.68	42.53	48.50	-153.44	336.65	1,195.26	2,125.18	2,043.37	81.81	25.977		
7,550.00	7,065.81	7,539.74	7,069.10	42.86	48.57	-146.71	336.79	1,195.24	2,156.87	2,074.87	82.00	26.303		
7,600.00	7,099.54	7,575.17	7,104.53	43.17	48.63	-140.36	337.02	1,195.30	2,189.71	2,107.54	82.17	26.649		
7,650.00	7,130.55	7,607.28	7,136.64	43.47	48.68	-134.27	337.30	1,195.41	2,223.52	2,141.20	82.31	27.013		
7,700.00	7,158.62	7,636.24	7,165.59	43.76	48.73	-128.37	337.61	1,195.55	2,258.13	2,175.70	82.43	27.393		
7,750.00	7,183.53	7,662.17	7,191.53	44.03	48.77	-122.62	337.92	1,195.72	2,293.38	2,210.84	82.54	27.786		
7,800.00	7,205.09	7,684.98	7,214.33	44.30	48.81	-116.99	338.20	1,195.84	2,329.06	2,246.44	82.62	28.190		
7,850.00	7,223.14	7,704.11	7,233.46	44.55	48.84	-111.49	338.43	1,195.93	2,365.01	2,282.32	82.69	28.603		
7,900.00	7,237.54	7,719.38	7,248.73	44.80	48.86	-106.15	338.61	1,195.99	2,401.01	2,318.28	82.73	29.022		
7,950.00	7,248.18	7,730.67	7,260.02	45.04	48.88	-101.02	338.75	1,196.03	2,436.87	2,354.11	82.76	29.447		
8,000.00	7,254.98	7,737.86	7,267.21	45.28	48.89	-96.15	338.84	1,196.05	2,472.38	2,389.62	82.76	29.873		
8,050.00	7,257.88	7,740.87	7,270.21	45.51	48.90	-91.59	338.87	1,196.05	2,507.33	2,424.57	82.76	30.298		
8,062.16	7,258.00	7,740.96	7,270.30	45.57	48.90	-90.54	338.87	1,196.05	2,515.71	2,432.96	82.75	30.401		
8,100.00	7,258.00	7,740.85	7,270.20	45.75	48.90	-90.54	338.87	1,196.05	2,541.89	2,459.15	82.74	30.722		
8,200.00	7,258.00	7,740.57	7,269.91	46.30	48.90	-90.53	338.87	1,196.05	2,612.44	2,529.71	82.73	31.580		
8,300.00	7,258.00	7,740.28	7,269.63	46.98	48.90	-90.52	338.87	1,196.05	2,684.86	2,602.13	82.73	32.454		
8,400.00	7,258.00	7,739.99	7,269.34	47.79	48.90	-90.51	338.86	1,196.05	2,759.00	2,676.26	82.75	33.343		
8,500.00	7,258.00	7,739.70	7,269.05	48.75	48.90	-90.50	338.86	1,196.05	2,834.74	2,751.96	82.78	34.246		
8,600.00	7,258.00	7,739.41	7,268.76	49.84	48.90	-90.49	338.85	1,196.05	2,911.94	2,829.12	82.82	35.161		
8,700.00	7,258.00	7,739.11	7,268.46	51.09	48.89	-90.49	338.85	1,196.05	2,990.48	2,907.62	82.86	36.089		
8,800.00	7,258.00	7,738.81	7,268.16	52.47	48.89	-90.48	338.85	1,196.05	3,070.28	2,987.36	82.92	37.028		
8,900.00	7,258.00	7,738.51	7,267.86	53.99	48.89	-90.47	338.84	1,196.05	3,151.23	3,068.26	82.97	37.978		
9,000.00	7,258.00	7,738.20	7,267.55	55.62	48.89	-90.46	338.84	1,196.05	3,233.25	3,150.21	83.04	38.938		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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
Measured Reference		Measured Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
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)				
500.00	500.00	1,693.00	1,640.06	1.58	8.61	101.41	-601.20	2,977.81	3,252.21	3,243.84	8.38	388.261		
600.00	600.00	1,769.24	1,710.07	1.94	9.21	101.68	-609.74	2,948.86	3,216.66	3,207.57	9.08	354.162		
700.00	700.00	1,888.80	1,819.95	2.29	10.15	102.11	-622.92	2,903.61	3,181.32	3,171.29	10.02	317.418		
800.00	800.00	2,028.99	1,948.28	2.65	11.29	102.60	-636.66	2,848.89	3,144.63	3,133.56	11.07	283.996		
900.00	900.00	2,108.45	2,020.98	3.01	11.94	102.87	-643.58	2,817.57	3,107.58	3,095.75	11.83	262.742		
1,000.00	1,000.00	2,185.26	2,091.51	3.37	12.56	103.12	-649.80	2,787.79	3,071.11	3,058.53	12.58	244.212		
1,100.00	1,100.00	2,291.65	2,189.24	3.73	13.42	103.48	-658.55	2,746.69	3,034.90	3,021.44	13.47	225.339		
1,200.00	1,200.00	2,440.89	2,325.89	4.09	14.66	103.97	-668.52	2,687.52	2,997.51	2,982.95	14.56	205.887		
1,300.00	1,300.00	2,552.21	2,426.97	4.45	15.61	104.37	-676.95	2,641.66	2,958.79	2,943.30	15.49	190.977		
1,400.00	1,400.00	2,609.62	2,479.15	4.80	16.10	104.58	-681.19	2,618.09	2,920.40	2,904.22	16.18	180.466		
1,500.00	1,500.00	2,667.00	2,531.68	5.16	16.58	104.80	-685.82	2,595.49	2,883.58	2,866.70	16.88	170.849		
1,600.00	1,600.00	2,702.27	2,564.16	5.52	16.86	104.94	-688.88	2,582.08	2,848.20	2,830.72	17.47	162.991		
1,700.00	1,700.00	2,756.00	2,613.85	5.88	17.29	105.15	-693.87	2,562.26	2,814.35	2,796.19	18.16	154.956		
1,800.00	1,800.00	2,908.72	2,754.38	6.24	18.53	105.83	-709.96	2,504.71	2,780.10	2,760.75	19.35	143.693		
1,900.00	1,900.00	3,020.00	2,855.88	6.60	19.47	106.36	-722.35	2,460.81	2,744.39	2,724.04	20.36	134.812		
2,000.00	2,000.00	3,088.71	2,918.72	6.95	20.04	106.69	-729.92	2,434.05	2,709.33	2,688.17	21.16	128.032		
2,100.00	2,100.00	3,165.76	2,989.40	7.31	20.68	107.07	-738.21	2,404.53	2,674.98	2,652.97	22.01	121.536		
2,200.00	2,200.00	3,246.44	3,063.59	7.67	21.33	107.46	-746.81	2,374.01	2,641.24	2,618.36	22.88	115.444		
2,300.00	2,299.98	3,322.00	3,133.32	8.03	21.94	107.74	-754.25	2,345.88	2,608.54	2,584.82	23.72	109.955		
2,400.00	2,399.84	3,396.39	3,202.45	8.39	22.52	108.78	-760.38	2,319.10	2,577.79	2,553.23	24.56	104.953		
2,500.00	2,499.45	3,484.98	3,285.21	8.75	23.19	109.88	-765.66	2,287.94	2,548.54	2,523.09	25.45	100.120		
2,600.00	2,598.70	3,554.18	3,349.97	9.10	23.70	110.88	-770.03	2,263.95	2,521.28	2,494.99	26.29	95.916		
2,700.00	2,697.47	3,663.82	3,452.66	9.47	24.52	112.22	-777.22	2,226.22	2,495.91	2,468.59	27.32	91.371		
2,800.00	2,795.62	3,859.95	3,634.66	9.84	26.04	114.37	-785.74	2,153.69	2,468.62	2,439.92	28.70	86.022		
2,900.00	2,893.06	3,992.96	3,757.21	10.23	27.12	116.13	-790.59	2,102.23	2,442.31	2,412.44	29.87	81.773		
3,000.00	2,989.64	4,081.00	3,837.51	10.63	27.87	117.55	-794.66	2,066.37	2,416.36	2,385.41	30.95	78.084		
3,100.00	3,085.27	4,123.28	3,876.18	11.05	28.22	118.44	-796.86	2,049.42	2,393.68	2,361.79	31.89	75.065		
3,200.00	3,179.82	4,171.00	3,920.29	11.50	28.61	119.36	-799.65	2,031.43	2,375.43	2,342.54	32.89	72.221		
3,300.00	3,273.17	4,214.88	3,961.05	11.98	28.95	120.17	-802.55	2,015.47	2,361.30	2,327.38	33.92	69.623		
3,400.00	3,365.21	4,319.35	4,057.61	12.49	29.79	121.82	-811.18	1,976.53	2,350.23	2,314.95	35.29	66.607		
3,500.00	3,455.84	4,433.00	4,161.46	13.04	30.75	123.68	-821.87	1,931.65	2,340.99	2,304.19	36.80	63.609		
3,506.72	3,461.88	4,433.00	4,161.46	13.08	30.75	123.69	-821.87	1,931.65	2,340.50	2,303.63	36.87	63.485		
3,600.00	3,545.62	4,500.35	4,222.84	13.62	31.33	124.73	-828.59	1,904.76	2,334.53	2,296.40	38.14	61.216		
3,700.00	3,635.40	4,566.43	4,283.06	14.23	31.90	125.77	-835.68	1,878.49	2,330.19	2,290.69	39.49	59.005		
3,800.00	3,725.17	4,631.46	4,342.30	14.85	32.45	126.80	-843.08	1,852.73	2,327.95	2,287.09	40.86	56.977		
3,852.00	3,771.86	4,664.44	4,372.46	15.19	32.72	127.32	-846.74	1,839.88	2,327.66	2,286.09	41.57	55.999 CC		
3,900.00	3,814.95	4,701.00	4,406.00	15.50	33.03	127.89	-850.61	1,825.86	2,327.91	2,285.66	42.25	55.096 ES		
4,000.00	3,904.73	4,762.60	4,462.62	16.15	33.54	128.84	-857.13	1,802.48	2,329.97	2,286.37	43.59	53.447		
4,100.00	3,994.50	4,842.94	4,536.50	16.82	34.19	130.09	-865.78	1,772.14	2,333.95	2,288.91	45.05	51.813		
4,200.00	4,084.28	5,067.91	4,741.53	17.51	36.12	133.57	-886.41	1,681.98	2,337.98	2,290.65	47.34	49.390		
4,300.00	4,174.06	5,100.15	4,770.74	18.20	36.41	134.07	-889.02	1,668.59	2,341.33	2,292.77	48.56	48.218		
4,400.00	4,263.83	5,149.92	4,815.99	18.90	36.84	134.84	-893.29	1,648.31	2,347.39	2,297.53	49.85	47.086		
4,500.00	4,353.61	5,228.00	4,887.10	19.62	37.52	136.03	-900.01	1,616.76	2,355.38	2,304.08	51.30	45.914		
4,600.00	4,443.38	5,292.76	4,945.90	20.33	38.09	137.03	-906.12	1,590.34	2,365.24	2,312.57	52.67	44.909		
4,700.00	4,533.16	5,364.16	5,010.42	21.06	38.72	138.15	-914.04	1,560.79	2,377.30	2,323.22	54.08	43.963		
4,800.00	4,622.94	5,430.67	5,070.49	21.79	39.31	139.18	-921.42	1,533.23	2,391.07	2,335.64	55.43	43.135		
4,900.00	4,712.71	5,493.00	5,127.20	22.53	39.85	140.13	-928.35	1,508.29	2,407.23	2,350.50	56.73	42.436		
5,000.00	4,802.49	5,536.62	5,167.10	23.27	40.22	140.79	-933.28	1,491.37	2,425.66	2,367.81	57.84	41.937		
5,100.00	4,892.27	5,594.62	5,220.32	24.02	40.69	141.65	-940.01	1,469.33	2,446.30	2,387.29	59.02	41.449		
5,200.00	4,982.04	5,664.34	5,285.14	24.77	41.23	142.63	-947.08	1,444.65	2,468.81	2,408.59	60.22	40.996		
5,300.00	5,071.82	5,725.47	5,342.67	25.53	41.67	143.44	-952.36	1,424.67	2,493.00	2,431.70	61.30	40.670		
5,400.00	5,161.59	5,780.69	5,394.85	26.29	42.06	144.16	-957.22	1,407.28	2,519.04	2,456.74	62.30	40.436		

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 11-10-5H
<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 11-10-5H	<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													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				
5,500.00	5,251.37	5,829.48	5,441.12	27.05	42.39	144.78	-961.81	1,392.51	2,547.13	2,483.92	63.21	40.296				
5,600.00	5,341.15	5,970.51	5,575.49	27.81	43.30	146.49	-973.00	1,351.20	2,575.59	2,510.90	64.69	39.814				
5,700.00	5,430.92	6,025.00	5,627.81	28.58	43.64	147.11	-976.23	1,336.33	2,604.61	2,539.04	65.58	39.718				
5,800.00	5,520.70	6,096.53	5,696.70	29.35	44.07	147.90	-980.64	1,317.61	2,635.09	2,568.56	66.53	39.609				
5,900.00	5,610.48	6,168.54	5,766.22	30.12	44.48	148.67	-985.24	1,299.40	2,666.85	2,599.40	67.45	39.539				
6,000.00	5,700.25	6,263.44	5,858.63	30.90	44.97	149.60	-989.78	1,278.32	2,699.44	2,630.99	68.45	39.439 SF				
6,100.00	5,790.03	6,337.88	5,931.73	31.67	45.31	150.25	-991.67	1,264.41	2,732.35	2,663.08	69.27	39.446				
6,200.00	5,879.81	6,401.66	5,994.73	32.45	45.57	150.75	-992.81	1,254.59	2,766.45	2,696.46	69.99	39.524				
6,300.00	5,969.58	6,467.00	6,059.54	33.23	45.80	151.22	-993.71	1,246.28	2,801.68	2,730.99	70.69	39.634				
6,400.00	6,059.36	6,533.13	6,125.30	34.01	46.01	151.67	-994.46	1,239.40	2,837.94	2,766.59	71.35	39.777				
6,500.00	6,149.13	6,604.32	6,196.23	34.79	46.22	152.11	-995.18	1,233.41	2,875.12	2,803.12	72.00	39.931				
6,600.00	6,238.91	6,680.20	6,271.93	35.58	46.43	152.54	-995.81	1,228.27	2,913.00	2,840.35	72.65	40.094				
6,700.00	6,328.69	6,759.48	6,351.11	36.36	46.63	152.96	-996.22	1,224.16	2,951.43	2,878.13	73.30	40.265				
6,800.00	6,418.46	6,840.64	6,432.20	37.15	46.81	153.36	-996.49	1,220.91	2,990.30	2,916.36	73.94	40.444				
6,900.00	6,508.24	6,913.18	6,504.71	37.94	46.97	153.70	-996.71	1,218.72	3,029.66	2,955.13	74.52	40.653				
7,000.00	6,598.02	6,981.54	6,573.05	38.73	47.12	154.00	-997.19	1,217.21	3,069.76	2,994.67	75.08	40.884				
7,100.00	6,687.79	7,058.68	6,650.17	39.52	47.27	154.33	-997.99	1,216.03	3,110.50	3,034.83	75.67	41.106				
7,156.65	6,738.65	7,103.95	6,695.44	39.96	47.36	154.52	-998.52	1,215.49	3,133.75	3,057.75	76.00	41.231				
7,200.00	6,777.55	7,138.89	6,730.37	40.31	47.43	165.29	-998.95	1,215.14	3,152.22	3,075.96	76.26	41.337				
7,250.00	6,822.15	7,180.57	6,772.05	40.70	47.51	177.37	-999.50	1,214.78	3,174.96	3,098.43	76.53	41.485				
7,300.00	6,866.16	7,221.68	6,813.16	41.09	47.59	-171.42	-1,000.05	1,214.46	3,199.06	3,122.27	76.79	41.662				
7,350.00	6,909.24	7,263.00	6,854.47	41.47	47.67	-161.32	-1,000.63	1,214.17	3,224.32	3,147.30	77.02	41.862				
7,400.00	6,951.05	7,310.98	6,902.45	41.83	47.75	-152.40	-1,001.15	1,214.14	3,250.51	3,173.25	77.26	42.074				
7,450.00	6,991.29	7,358.23	6,949.69	42.19	47.83	-144.53	-1,001.32	1,214.64	3,277.40	3,199.93	77.47	42.305				

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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)				
700.00	700.00	1,865.00	1,762.68	2.29	11.41	105.85	-837.97	2,951.78	3,254.49	3,242.36	12.13	268.316		
800.00	800.00	1,935.11	1,824.47	2.65	12.06	106.32	-856.17	2,924.09	3,221.56	3,208.54	13.02	247.345		
900.00	900.00	1,997.39	1,879.49	3.01	12.64	106.74	-872.48	2,899.88	3,189.59	3,175.71	13.88	229.801		
1,000.00	1,000.00	2,040.00	1,917.09	3.37	13.03	107.05	-884.08	2,883.55	3,158.85	3,144.25	14.60	216.302		
1,100.00	1,100.00	2,109.06	1,978.25	3.73	13.67	107.54	-903.11	2,857.73	3,129.33	3,113.79	15.53	201.453		
1,200.00	1,200.00	2,160.52	2,024.12	4.09	14.13	107.90	-917.20	2,839.15	3,101.28	3,084.95	16.34	189.828		
1,300.00	1,300.00	2,218.00	2,075.61	4.45	14.64	108.31	-933.08	2,819.14	3,074.79	3,057.60	17.19	178.873		
1,400.00	1,400.00	2,285.67	2,136.28	4.80	15.23	108.81	-952.19	2,796.06	3,049.53	3,031.40	18.13	168.223		
1,500.00	1,500.00	2,350.72	2,194.47	5.16	15.81	109.30	-971.19	2,774.03	3,025.19	3,006.13	19.06	158.726		
1,600.00	1,600.00	2,413.97	2,251.07	5.52	16.36	109.78	-990.17	2,753.11	3,002.18	2,982.19	19.99	150.205		
1,700.00	1,700.00	2,496.06	2,324.40	5.88	17.09	110.43	-1,015.47	2,726.28	2,980.20	2,959.13	21.08	141.404		
1,800.00	1,800.00	2,637.82	2,450.32	6.24	18.37	111.58	-1,059.66	2,678.47	2,957.88	2,935.22	22.67	130.494		
1,900.00	1,900.00	2,704.89	2,509.74	6.60	18.97	112.14	-1,080.52	2,655.38	2,935.59	2,911.92	23.67	124.040		
2,000.00	2,000.00	2,750.00	2,550.01	6.95	19.38	112.51	-1,094.31	2,640.45	2,914.90	2,890.42	24.49	119.030		
2,100.00	2,100.00	2,822.15	2,614.66	7.31	20.01	113.10	-1,116.46	2,617.31	2,895.65	2,870.13	25.52	113.453		
2,200.00	2,200.00	2,937.91	2,718.01	7.67	21.03	114.08	-1,152.99	2,580.08	2,877.11	2,850.18	26.93	106.832		
2,300.00	2,299.98	3,017.00	2,788.04	8.03	21.75	114.36	-1,178.92	2,554.05	2,859.57	2,831.51	28.07	101.879		
2,400.00	2,399.84	3,106.81	2,867.33	8.39	22.57	115.53	-1,208.89	2,524.39	2,844.30	2,814.98	29.32	97.015		
2,500.00	2,499.45	3,199.67	2,949.37	8.75	23.42	116.74	-1,239.64	2,493.59	2,831.16	2,800.56	30.61	92.501		
2,600.00	2,598.70	3,338.28	3,071.86	9.10	24.70	118.46	-1,283.71	2,445.98	2,818.94	2,786.64	32.30	87.280		
2,700.00	2,697.47	3,446.29	3,167.38	9.47	25.70	119.88	-1,317.22	2,408.34	2,809.07	2,775.34	33.74	83.267		
2,800.00	2,795.62	3,541.57	3,252.06	9.84	26.57	121.13	-1,345.27	2,374.86	2,801.24	2,766.17	35.07	79.881		
2,900.00	2,893.06	3,670.92	3,366.94	10.23	27.76	122.82	-1,382.16	2,328.25	2,795.38	2,758.69	36.69	76.184		
3,000.00	2,989.64	3,746.04	3,433.47	10.63	28.46	123.83	-1,403.42	2,300.59	2,792.17	2,754.27	37.90	73.670		
3,034.86	3,023.09	3,765.57	3,450.75	10.78	28.64	124.09	-1,409.03	2,293.43	2,791.93	2,753.66	38.27	72.946	CC, ES	
3,100.00	3,085.27	3,811.00	3,490.92	11.05	29.07	124.69	-1,422.29	2,276.86	2,792.81	2,753.76	39.05	71.527		
3,200.00	3,179.82	3,921.40	3,587.31	11.50	30.14	126.19	-1,455.74	2,234.74	2,796.45	2,755.82	40.63	68.822		
3,300.00	3,273.17	3,975.77	3,634.38	11.98	30.68	126.87	-1,472.74	2,213.46	2,803.70	2,761.94	41.76	67.144		
3,400.00	3,365.21	4,030.89	3,682.07	12.49	31.23	127.52	-1,490.21	2,192.07	2,815.24	2,772.35	42.89	65.631		
3,500.00	3,455.84	4,076.00	3,721.13	13.04	31.68	127.96	-1,504.61	2,174.68	2,831.10	2,787.16	43.94	64.426		
3,506.72	3,461.88	4,087.85	3,731.40	13.08	31.80	128.13	-1,508.41	2,170.14	2,832.31	2,788.21	44.10	64.231		
3,600.00	3,545.62	4,135.36	3,772.62	13.62	32.27	128.87	-1,523.61	2,152.08	2,850.38	2,805.26	45.12	63.177		
3,700.00	3,635.40	4,183.79	3,814.79	14.23	32.74	129.63	-1,539.08	2,133.96	2,871.91	2,825.74	46.17	62.203		
3,800.00	3,725.17	4,229.77	3,855.10	14.85	33.18	130.33	-1,553.61	2,117.27	2,895.70	2,848.53	47.17	61.382		
3,900.00	3,814.95	4,289.40	3,907.75	15.50	33.74	131.22	-1,572.16	2,096.30	2,921.62	2,873.34	48.28	60.513		
4,000.00	3,904.73	4,357.05	3,967.68	16.15	34.36	132.22	-1,592.87	2,072.73	2,949.18	2,899.74	49.44	59.652		
4,100.00	3,994.50	4,413.23	4,017.23	16.82	34.89	133.06	-1,610.44	2,052.93	2,978.51	2,928.03	50.48	59.009		
4,200.00	4,084.28	4,549.63	4,136.75	17.51	36.19	135.07	-1,652.91	2,002.78	3,008.66	2,956.40	52.27	57.564		
4,300.00	4,174.06	4,656.45	4,230.99	18.20	37.21	136.59	-1,684.21	1,963.42	3,039.71	2,985.97	53.74	56.562		
4,400.00	4,263.83	4,771.72	4,333.00	18.90	38.28	138.20	-1,715.69	1,919.98	3,070.64	3,015.40	55.25	55.581		
4,500.00	4,353.61	4,893.90	4,441.69	19.62	39.41	139.86	-1,746.74	1,873.62	3,101.90	3,045.13	56.78	54.631		
4,600.00	4,443.38	4,942.15	4,484.19	20.33	39.87	140.52	-1,759.36	1,854.58	3,134.45	3,076.78	57.67	54.352		
4,700.00	4,533.16	4,994.74	4,530.37	21.06	40.38	141.24	-1,773.53	1,833.78	3,168.77	3,110.19	58.58	54.093		
4,800.00	4,622.94	5,049.00	4,577.80	21.79	40.90	141.98	-1,788.53	1,812.11	3,204.72	3,145.23	59.49	53.874		
4,900.00	4,712.71	5,091.80	4,615.19	22.53	41.32	142.55	-1,800.58	1,795.12	3,242.36	3,182.10	60.26	53.806	SF	

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	6.00	6.00	0.00	0.07	-25.20	2,915.52	-1,372.03	3,222.22					
100.00	100.00	106.00	106.00	0.14	1.34	-25.20	2,915.52	-1,372.03	3,222.22	3,220.74	1.48	2,178.663		
200.00	200.00	206.00	206.00	0.50	3.61	-25.20	2,915.52	-1,372.03	3,222.22	3,218.11	4.11	783.151		
300.00	300.00	306.00	306.00	0.86	5.69	-25.20	2,915.52	-1,372.03	3,222.22	3,215.67	6.55	492.013		
400.00	400.00	406.00	406.00	1.22	7.73	-25.20	2,915.52	-1,372.03	3,222.22	3,213.27	8.95	360.068		
500.00	500.00	506.00	506.00	1.58	9.76	-25.20	2,915.52	-1,372.03	3,222.22	3,210.88	11.34	284.245		
600.00	600.00	606.00	606.00	1.94	11.78	-25.20	2,915.52	-1,372.03	3,222.22	3,208.50	13.72	234.905		
700.00	700.00	706.00	706.00	2.29	13.80	-25.20	2,915.52	-1,372.03	3,222.22	3,206.13	16.09	200.203		
800.00	800.00	806.00	806.00	2.65	15.82	-25.20	2,915.52	-1,372.03	3,222.22	3,203.75	18.47	174.454		
900.00	900.00	906.00	906.00	3.01	17.83	-25.20	2,915.52	-1,372.03	3,222.22	3,201.38	20.84	154.584		
1,000.00	1,000.00	1,006.00	1,006.00	3.37	19.85	-25.20	2,915.52	-1,372.03	3,222.22	3,199.00	23.22	138.783		
1,100.00	1,100.00	1,106.00	1,106.00	3.73	21.86	-25.20	2,915.52	-1,372.03	3,222.22	3,196.63	25.59	125.917		
1,200.00	1,200.00	1,206.00	1,206.00	4.09	23.88	-25.20	2,915.52	-1,372.03	3,222.22	3,194.26	27.96	115.235		
1,300.00	1,300.00	1,306.00	1,306.00	4.45	25.89	-25.20	2,915.52	-1,372.03	3,222.22	3,191.89	30.33	106.226		
1,400.00	1,400.00	1,406.00	1,406.00	4.80	27.90	-25.20	2,915.52	-1,372.03	3,222.22	3,189.52	32.70	98.524		
1,500.00	1,500.00	1,506.00	1,506.00	5.16	29.91	-25.20	2,915.52	-1,372.03	3,222.22	3,187.14	35.08	91.864		
1,600.00	1,600.00	1,606.00	1,606.00	5.52	31.93	-25.20	2,915.52	-1,372.03	3,222.22	3,184.77	37.45	86.048		
1,700.00	1,700.00	1,706.00	1,706.00	5.88	33.94	-25.20	2,915.52	-1,372.03	3,222.22	3,182.40	39.82	80.925		
1,800.00	1,800.00	1,806.00	1,806.00	6.24	35.95	-25.20	2,915.52	-1,372.03	3,222.22	3,180.03	42.19	76.378		
1,900.00	1,900.00	1,906.00	1,906.00	6.60	37.96	-25.20	2,915.52	-1,372.03	3,222.22	3,177.66	44.56	72.315		
2,000.00	2,000.00	2,006.00	2,006.00	6.95	39.97	-25.20	2,915.52	-1,372.03	3,222.22	3,175.29	46.93	68.662		
2,100.00	2,100.00	2,106.00	2,106.00	7.31	41.99	-25.20	2,915.52	-1,372.03	3,222.22	3,172.92	49.30	65.361		
2,200.00	2,200.00	2,206.00	2,206.00	7.67	44.00	-25.20	2,915.52	-1,372.03	3,222.22	3,170.55	51.67	62.363		
2,300.00	2,299.98	2,305.98	2,305.98	8.03	46.01	-26.00	2,915.52	-1,372.03	3,220.65	3,166.61	54.04	59.599		
2,400.00	2,399.84	2,405.84	2,405.84	8.39	48.02	-26.08	2,915.52	-1,372.03	3,215.95	3,159.54	56.41	57.015		
2,500.00	2,499.45	2,505.45	2,505.45	8.75	50.02	-26.22	2,915.52	-1,372.03	3,208.12	3,149.35	58.77	54.591		
2,600.00	2,598.70	2,604.70	2,604.70	9.10	52.02	-26.41	2,915.52	-1,372.03	3,197.18	3,136.06	61.12	52.310		
2,700.00	2,697.47	2,703.47	2,703.47	9.47	54.00	-26.66	2,915.52	-1,372.03	3,183.15	3,119.69	63.46	50.156		
2,800.00	2,795.62	2,801.62	2,801.62	9.84	55.98	-26.98	2,915.52	-1,372.03	3,166.06	3,100.26	65.80	48.119		
2,900.00	2,893.06	2,899.06	2,899.06	10.23	57.94	-27.35	2,915.52	-1,372.03	3,145.94	3,077.82	68.12	46.185		
3,000.00	2,989.64	2,995.64	2,995.64	10.63	59.88	-27.79	2,915.52	-1,372.03	3,122.83	3,052.41	70.42	44.345		
3,100.00	3,085.27	3,091.27	3,091.27	11.05	61.80	-28.29	2,915.52	-1,372.03	3,096.78	3,024.06	72.71	42.590		
3,200.00	3,179.82	3,185.82	3,185.82	11.50	63.71	-28.87	2,915.52	-1,372.03	3,067.83	2,992.85	74.99	40.913		
3,300.00	3,273.17	3,279.17	3,279.17	11.98	65.58	-29.52	2,915.52	-1,372.03	3,036.06	2,958.82	77.24	39.306		
3,400.00	3,365.21	3,371.21	3,371.21	12.49	67.43	-30.24	2,915.52	-1,372.03	3,001.52	2,922.04	79.48	37.764		
3,500.00	3,455.84	3,461.84	3,461.84	13.04	69.26	-31.06	2,915.52	-1,372.03	2,964.29	2,882.59	81.70	36.282		
3,506.72	3,461.88	3,467.88	3,467.88	13.08	69.38	-31.12	2,915.52	-1,372.03	2,961.69	2,879.84	81.85	36.185		
3,600.00	3,545.62	3,551.62	3,551.62	13.62	71.06	-31.52	2,915.52	-1,372.03	2,925.63	2,841.72	83.91	34.864		
3,700.00	3,635.40	3,641.40	3,641.40	14.23	72.87	-31.96	2,915.52	-1,372.03	2,887.12	2,800.98	86.14	33.517		
3,800.00	3,725.17	3,731.17	3,731.17	14.85	74.67	-32.42	2,915.52	-1,372.03	2,848.78	2,760.40	88.38	32.234		
3,900.00	3,814.95	3,820.95	3,820.95	15.50	76.48	-32.89	2,915.52	-1,372.03	2,810.60	2,719.97	90.63	31.012		
4,000.00	3,904.73	3,910.73	3,910.73	16.15	78.29	-33.37	2,915.52	-1,372.03	2,772.59	2,679.70	92.89	29.847		
4,100.00	3,994.50	4,000.50	4,000.50	16.82	80.09	-33.86	2,915.52	-1,372.03	2,734.77	2,639.60	95.17	28.736		
4,200.00	4,084.28	4,090.28	4,090.28	17.51	81.90	-34.36	2,915.52	-1,372.03	2,697.13	2,599.67	97.46	27.675		
4,300.00	4,174.06	4,180.06	4,180.06	18.20	83.70	-34.88	2,915.52	-1,372.03	2,659.69	2,559.93	99.76	26.662		
4,400.00	4,263.83	4,269.83	4,269.83	18.90	85.51	-35.42	2,915.52	-1,372.03	2,622.46	2,520.39	102.07	25.693		
4,500.00	4,353.61	4,359.61	4,359.61	19.62	87.31	-35.96	2,915.52	-1,372.03	2,585.44	2,481.04	104.39	24.766		
4,600.00	4,443.38	4,449.38	4,449.38	20.33	89.12	-36.52	2,915.52	-1,372.03	2,548.64	2,441.91	106.73	23.879		
4,700.00	4,533.16	4,539.16	4,539.16	21.06	90.92	-37.10	2,915.52	-1,372.03	2,512.08	2,403.00	109.08	23.030		
4,800.00	4,622.94	4,628.94	4,628.94	21.79	92.73	-37.69	2,915.52	-1,372.03	2,475.76	2,364.32	111.44	22.216		
4,900.00	4,712.71	4,718.71	4,718.71	22.53	94.53	-38.30	2,915.52	-1,372.03	2,439.70	2,325.88	113.82	21.435		
5,000.00	4,802.49	4,808.49	4,808.49	23.27	96.34	-38.92	2,915.52	-1,372.03	2,403.90	2,287.70	116.20	20.687		

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 11-10-5H
<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 11-10-5H	<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		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,892.27	4,898.27	4,898.27	24.02	98.15	-39.57	2,915.52	-1,372.03	2,368.38	2,249.78	118.60	19.969		
5,200.00	4,982.04	4,988.04	4,988.04	24.77	99.95	-40.23	2,915.52	-1,372.03	2,333.15	2,212.14	121.02	19.280		
5,300.00	5,071.82	5,077.82	5,077.82	25.53	101.76	-40.91	2,915.52	-1,372.03	2,298.23	2,174.78	123.44	18.618		
5,400.00	5,161.59	5,167.59	5,167.59	26.29	103.56	-41.61	2,915.52	-1,372.03	2,263.62	2,137.74	125.88	17.982		
5,500.00	5,251.37	5,257.37	5,257.37	27.05	105.37	-42.32	2,915.52	-1,372.03	2,229.35	2,101.01	128.34	17.371		
5,600.00	5,341.15	5,347.15	5,347.15	27.81	107.17	-43.06	2,915.52	-1,372.03	2,195.42	2,064.62	130.81	16.784		
5,700.00	5,430.92	5,436.92	5,436.92	28.58	108.98	-43.82	2,915.52	-1,372.03	2,161.87	2,028.57	133.29	16.219		
5,800.00	5,520.70	5,526.70	5,526.70	29.35	110.78	-44.60	2,915.52	-1,372.03	2,128.69	1,992.90	135.79	15.676		
5,900.00	5,610.48	5,616.48	5,616.48	30.12	112.59	-45.40	2,915.52	-1,372.03	2,095.91	1,957.61	138.30	15.154		
6,000.00	5,700.25	5,706.25	5,706.25	30.90	114.39	-46.23	2,915.52	-1,372.03	2,063.56	1,922.72	140.84	14.652		
6,100.00	5,790.03	5,796.03	5,796.03	31.67	116.20	-47.08	2,915.52	-1,372.03	2,031.64	1,888.26	143.38	14.169		
6,200.00	5,879.81	5,885.81	5,885.81	32.45	118.01	-47.95	2,915.52	-1,372.03	2,000.18	1,854.24	145.94	13.705		
6,300.00	5,969.58	5,975.58	5,975.58	33.23	119.81	-48.85	2,915.52	-1,372.03	1,969.21	1,820.69	148.52	13.259		
6,400.00	6,059.36	6,065.36	6,065.36	34.01	121.62	-49.77	2,915.52	-1,372.03	1,938.74	1,787.62	151.12	12.829		
6,500.00	6,149.13	6,155.13	6,155.13	34.79	123.42	-50.72	2,915.52	-1,372.03	1,908.81	1,755.07	153.73	12.416		
6,600.00	6,238.91	6,244.91	6,244.91	35.58	125.23	-51.70	2,915.52	-1,372.03	1,879.42	1,723.06	156.37	12.019		
6,700.00	6,328.69	6,334.69	6,334.69	36.36	127.03	-52.70	2,915.52	-1,372.03	1,850.63	1,691.61	159.01	11.638		
6,800.00	6,418.46	6,424.46	6,424.46	37.15	128.84	-53.73	2,915.52	-1,372.03	1,822.44	1,660.76	161.68	11.272		
6,900.00	6,508.24	6,514.24	6,514.24	37.94	130.64	-54.79	2,915.52	-1,372.03	1,794.88	1,630.52	164.36	10.920		
7,000.00	6,598.02	6,604.02	6,604.02	38.73	132.45	-55.87	2,915.52	-1,372.03	1,768.00	1,600.94	167.06	10.583		
7,100.00	6,687.79	6,693.79	6,693.79	39.52	134.25	-56.99	2,915.52	-1,372.03	1,741.82	1,572.04	169.78	10.259		
7,156.65	6,738.65	6,744.65	6,744.65	39.96	135.28	-57.63	2,915.52	-1,372.03	1,727.31	1,555.98	171.32	10.082		
7,200.00	6,777.55	6,783.55	6,783.55	40.31	136.06	-48.62	2,915.52	-1,372.03	1,715.04	1,542.55	172.49	9.943		
7,250.00	6,822.15	6,828.15	6,828.15	40.70	136.96	-38.46	2,915.52	-1,372.03	1,697.82	1,524.02	173.80	9.769		
7,300.00	6,866.16	6,872.16	6,872.16	41.09	137.84	-28.99	2,915.52	-1,372.03	1,677.37	1,502.32	175.05	9.582		
7,350.00	6,909.24	6,915.24	6,915.24	41.47	138.71	-20.41	2,915.52	-1,372.03	1,653.78	1,477.56	176.22	9.385		
7,400.00	6,951.05	6,957.05	6,957.05	41.83	139.55	-12.64	2,915.52	-1,372.03	1,627.19	1,449.87	177.32	9.177		
7,450.00	6,991.29	6,997.29	6,997.29	42.19	140.36	-5.47	2,915.52	-1,372.03	1,597.77	1,419.45	178.32	8.960		
7,500.00	7,029.64	7,035.64	7,035.64	42.53	141.13	1.37	2,915.52	-1,372.03	1,565.73	1,386.50	179.23	8.736		
7,550.00	7,065.81	7,071.81	7,071.81	42.86	141.86	8.16	2,915.52	-1,372.03	1,531.30	1,351.27	180.03	8.506		
7,600.00	7,099.54	7,105.54	7,105.54	43.17	142.53	15.17	2,915.52	-1,372.03	1,494.75	1,314.05	180.70	8.272		
7,650.00	7,130.55	7,136.55	7,136.55	43.47	143.16	22.65	2,915.52	-1,372.03	1,456.40	1,275.15	181.26	8.035		
7,700.00	7,158.62	7,164.62	7,164.62	43.76	143.72	30.78	2,915.52	-1,372.03	1,416.60	1,234.93	181.67	7.798		
7,750.00	7,183.53	7,189.53	7,189.53	44.03	144.22	39.60	2,915.52	-1,372.03	1,375.70	1,193.76	181.94	7.561		
7,800.00	7,205.09	7,211.09	7,211.09	44.30	144.66	48.97	2,915.52	-1,372.03	1,334.13	1,152.06	182.07	7.328		
7,850.00	7,223.14	7,229.14	7,229.14	44.55	145.02	58.50	2,915.52	-1,372.03	1,292.32	1,110.27	182.05	7.099		
7,900.00	7,237.54	7,243.54	7,243.54	44.80	145.31	67.67	2,915.52	-1,372.03	1,250.73	1,068.86	181.87	6.877		
7,950.00	7,248.18	7,254.18	7,254.18	45.04	145.52	75.97	2,915.52	-1,372.03	1,209.86	1,028.30	181.56	6.664		
8,000.00	7,254.98	7,260.98	7,260.98	45.28	145.66	83.06	2,915.52	-1,372.03	1,170.20	989.09	181.11	6.461		
8,050.00	7,257.88	7,263.88	7,263.88	45.51	145.72	88.81	2,915.52	-1,372.03	1,132.28	951.73	180.55	6.271		
8,062.16	7,258.00	7,264.00	7,264.00	45.57	145.72	90.00	2,915.52	-1,372.03	1,123.38	942.98	180.40	6.227		
8,100.00	7,258.00	7,264.00	7,264.00	45.75	145.72	90.00	2,915.52	-1,372.03	1,096.20	916.27	179.93	6.092		
8,200.00	7,258.00	7,264.00	7,264.00	46.30	145.72	90.00	2,915.52	-1,372.03	1,027.62	848.77	178.85	5.746		
8,300.00	7,258.00	7,264.00	7,264.00	46.98	145.72	90.00	2,915.52	-1,372.03	964.55	786.39	178.16	5.414		
8,400.00	7,258.00	7,264.00	7,264.00	47.79	145.72	90.00	2,915.52	-1,372.03	908.14	730.01	178.13	5.098		
8,500.00	7,258.00	7,264.00	7,264.00	48.75	145.72	90.00	2,915.52	-1,372.03	859.69	680.64	179.05	4.801		
8,600.00	7,258.00	7,264.00	7,264.00	49.84	145.72	90.00	2,915.52	-1,372.03	820.62	639.52	181.10	4.531		
8,700.00	7,258.00	7,264.00	7,264.00	51.09	145.72	90.00	2,915.52	-1,372.03	792.32	608.06	184.26	4.300		
8,800.00	7,258.00	7,264.00	7,264.00	52.47	145.72	90.00	2,915.52	-1,372.03	775.97	587.72	188.25	4.122		
8,878.23	7,258.00	7,264.00	7,264.00	53.65	145.72	90.00	2,915.52	-1,372.03	772.02	580.33	191.69	4.027 CC		
8,900.00	7,258.00	7,264.00	7,264.00	53.99	145.72	90.00	2,915.52	-1,372.03	772.32	579.67	192.65	4.009 ES		
9,000.00	7,258.00	7,264.00	7,264.00	55.62	145.72	90.00	2,915.52	-1,372.03	781.56	584.57	196.99	3.968 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 11-10-5H
<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 11-10-5H	<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		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	7,258.00	7,264.00	7,264.00	57.37	145.72	90.00	2,915.52	-1,372.03	803.24	602.33	200.91	3.998		
9,200.00	7,258.00	7,264.00	7,264.00	59.21	145.72	90.00	2,915.52	-1,372.03	836.39	632.19	204.20	4.096		
9,300.00	7,258.00	7,264.00	7,264.00	61.14	145.72	90.00	2,915.52	-1,372.03	879.71	672.92	206.79	4.254		
9,400.00	7,258.00	7,264.00	7,264.00	63.14	145.72	90.00	2,915.52	-1,372.03	931.80	723.05	208.75	4.464		
9,500.00	7,258.00	7,264.00	7,264.00	65.21	145.72	90.00	2,915.52	-1,372.03	991.26	781.11	210.15	4.717		
9,600.00	7,258.00	7,264.00	7,264.00	67.33	145.72	90.00	2,915.52	-1,372.03	1,056.86	845.74	211.12	5.006		
9,700.00	7,258.00	7,264.00	7,264.00	69.51	145.72	90.00	2,915.52	-1,372.03	1,127.52	915.77	211.76	5.325		
9,800.00	7,258.00	7,264.00	7,264.00	71.73	145.72	90.00	2,915.52	-1,372.03	1,202.36	990.22	212.14	5.668		
9,900.00	7,258.00	7,264.00	7,264.00	74.00	145.72	90.00	2,915.52	-1,372.03	1,280.63	1,068.28	212.35	6.031		
10,000.00	7,258.00	7,264.00	7,264.00	76.30	145.72	90.00	2,915.52	-1,372.03	1,361.75	1,149.33	212.43	6.411		
10,100.00	7,258.00	7,264.00	7,264.00	78.63	145.72	90.00	2,915.52	-1,372.03	1,445.24	1,232.83	212.41	6.804		
10,200.00	7,258.00	7,264.00	7,264.00	80.99	145.72	90.00	2,915.52	-1,372.03	1,530.71	1,318.38	212.34	7.209		
10,300.00	7,258.00	7,264.00	7,264.00	83.37	145.72	90.00	2,915.52	-1,372.03	1,617.85	1,405.63	212.22	7.624		
10,400.00	7,258.00	7,264.00	7,264.00	85.78	145.72	90.00	2,915.52	-1,372.03	1,706.40	1,494.33	212.07	8.046		
10,500.00	7,258.00	7,264.00	7,264.00	88.21	145.72	90.00	2,915.52	-1,372.03	1,796.15	1,584.24	211.91	8.476		
10,600.00	7,258.00	7,264.00	7,264.00	90.65	145.72	90.00	2,915.52	-1,372.03	1,886.93	1,675.20	211.73	8.912		
10,700.00	7,258.00	7,264.00	7,264.00	93.12	145.72	90.00	2,915.52	-1,372.03	1,978.60	1,767.04	211.55	9.353		
10,800.00	7,258.00	7,264.00	7,264.00	95.59	145.72	90.00	2,915.52	-1,372.03	2,071.04	1,859.67	211.37	9.798		
10,900.00	7,258.00	7,264.00	7,264.00	98.09	145.72	90.00	2,915.52	-1,372.03	2,164.15	1,952.96	211.20	10.247		
11,000.00	7,258.00	7,264.00	7,264.00	100.59	145.72	90.00	2,915.52	-1,372.03	2,257.86	2,046.83	211.02	10.700		
11,100.00	7,258.00	7,264.00	7,264.00	103.11	145.72	90.00	2,915.52	-1,372.03	2,352.08	2,141.22	210.85	11.155		
11,200.00	7,258.00	7,264.00	7,264.00	105.64	145.72	90.00	2,915.52	-1,372.03	2,446.76	2,236.07	210.69	11.613		
11,300.00	7,258.00	7,264.00	7,264.00	108.18	145.72	90.00	2,915.52	-1,372.03	2,541.84	2,331.31	210.53	12.073		
11,400.00	7,258.00	7,264.00	7,264.00	110.73	145.72	90.00	2,915.52	-1,372.03	2,637.30	2,426.92	210.38	12.536		
11,500.00	7,258.00	7,264.00	7,264.00	113.29	145.72	90.00	2,915.52	-1,372.03	2,733.07	2,522.84	210.24	13.000		
11,600.00	7,258.00	7,264.00	7,264.00	115.85	145.72	90.00	2,915.52	-1,372.03	2,829.14	2,619.04	210.10	13.466		
11,700.00	7,258.00	7,264.00	7,264.00	118.43	145.72	90.00	2,915.52	-1,372.03	2,925.47	2,715.51	209.97	13.933		
11,800.00	7,258.00	7,264.00	7,264.00	121.01	145.72	90.00	2,915.52	-1,372.03	3,022.04	2,812.20	209.84	14.402		
11,900.00	7,258.00	7,264.00	7,264.00	123.59	145.72	90.00	2,915.52	-1,372.03	3,118.83	2,909.11	209.72	14.871		
12,000.00	7,258.00	7,264.00	7,264.00	126.18	145.72	90.00	2,915.52	-1,372.03	3,215.81	3,006.20	209.61	15.342		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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		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	37.39	40.07	30.63	50.44	50.44				
100.00	100.00	100.00	100.00	0.14	0.14	37.39	40.07	30.63	50.44	50.15	0.29	175.878		
200.00	200.00	200.00	200.00	0.50	0.50	37.39	40.07	30.63	50.44	49.43	1.00	50.251		
300.00	300.00	300.00	300.00	0.86	0.86	37.39	40.07	30.63	50.44	48.72	1.72	29.313	CC, ES	
400.00	400.00	399.06	399.04	1.22	1.21	39.03	39.88	32.33	51.35	48.92	2.43	21.158		
500.00	500.00	497.89	497.73	1.58	1.56	43.58	39.32	37.42	54.32	51.19	3.13	17.339		
600.00	600.00	596.70	596.19	1.94	1.92	49.97	38.40	45.70	59.81	55.97	3.85	15.550		
700.00	700.00	696.28	695.34	2.29	2.29	55.71	37.38	54.81	66.51	61.95	4.57	14.569		
800.00	800.00	795.86	794.50	2.65	2.67	60.36	36.37	63.93	73.75	68.47	5.28	13.957		
900.00	900.00	895.43	893.65	3.01	3.05	64.17	35.35	73.04	81.39	75.39	6.00	13.559		
1,000.00	1,000.00	995.01	992.80	3.37	3.43	67.31	34.34	82.15	89.33	82.61	6.72	13.290		
1,100.00	1,100.00	1,094.58	1,091.95	3.73	3.81	69.94	33.33	91.26	97.49	90.05	7.44	13.104		
1,200.00	1,200.00	1,194.16	1,191.11	4.09	4.20	72.16	32.31	100.37	105.82	97.66	8.16	12.971		
1,300.00	1,300.00	1,293.73	1,290.26	4.45	4.59	74.05	31.30	109.49	114.29	105.41	8.88	12.876		
1,400.00	1,400.00	1,393.31	1,389.41	4.80	4.97	75.67	30.29	118.60	122.86	113.27	9.59	12.805		
1,500.00	1,500.00	1,492.88	1,488.56	5.16	5.36	77.09	29.27	127.71	131.52	121.21	10.31	12.753		
1,600.00	1,600.00	1,592.46	1,587.72	5.52	5.75	78.33	28.26	136.82	140.25	129.22	11.03	12.714		
1,700.00	1,700.00	1,692.03	1,686.87	5.88	6.13	79.43	27.24	145.93	149.03	137.29	11.75	12.684		
1,800.00	1,800.00	1,791.61	1,786.02	6.24	6.52	80.40	26.23	155.05	157.87	145.40	12.47	12.662		
1,900.00	1,900.00	1,891.18	1,885.17	6.60	6.91	81.27	25.22	164.16	166.74	153.56	13.19	12.645		
2,000.00	2,000.00	1,990.76	1,984.32	6.95	7.30	82.05	24.20	173.27	175.65	161.75	13.91	12.632		
2,100.00	2,100.00	2,090.33	2,083.48	7.31	7.68	82.75	23.19	182.38	184.59	169.97	14.62	12.622		
2,200.00	2,200.00	2,189.91	2,182.63	7.67	8.07	83.39	22.18	191.49	193.55	178.21	15.34	12.615		
2,300.00	2,299.98	2,289.45	2,281.75	8.03	8.46	83.52	21.16	200.60	202.34	186.28	16.06	12.600		
2,400.00	2,399.84	2,388.84	2,380.71	8.39	8.85	85.28	20.15	209.70	210.89	194.12	16.77	12.576		
2,500.00	2,499.45	2,487.95	2,479.40	8.75	9.23	87.79	19.14	218.77	219.50	202.02	17.48	12.560		
2,600.00	2,598.70	2,586.67	2,577.70	9.10	9.62	90.93	18.14	227.80	228.60	210.42	18.18	12.572		
2,700.00	2,697.47	2,684.87	2,675.49	9.47	10.00	94.60	17.14	236.79	238.68	219.79	18.90	12.632		
2,800.00	2,795.62	2,782.44	2,772.65	9.84	10.38	98.67	16.14	245.71	250.30	230.68	19.62	12.758		
2,900.00	2,893.06	2,879.26	2,869.05	10.23	10.76	103.00	15.16	254.57	263.99	243.64	20.36	12.970		
3,000.00	2,989.64	2,975.20	2,964.59	10.63	11.14	107.45	14.18	263.35	280.30	259.19	21.11	13.279		
3,100.00	3,085.27	3,070.16	3,059.14	11.05	11.51	111.89	13.21	272.04	299.66	277.78	21.88	13.696		
3,200.00	3,179.82	3,164.02	3,152.60	11.50	11.87	116.20	12.26	280.63	322.42	299.76	22.66	14.227		
3,300.00	3,273.17	3,256.65	3,244.84	11.98	12.23	120.28	11.32	289.11	348.84	325.38	23.46	14.872		
3,400.00	3,365.21	3,347.96	3,335.76	12.49	12.59	124.08	10.39	297.46	379.05	354.80	24.25	15.630		
3,500.00	3,455.84	3,437.82	3,425.24	13.04	12.94	127.56	9.47	305.69	413.11	388.06	25.04	16.495		
3,506.72	3,461.88	3,443.80	3,431.20	13.08	12.97	127.78	9.41	306.23	415.53	390.44	25.10	16.557		
3,600.00	3,545.62	3,526.82	3,513.87	13.62	13.29	131.17	8.57	313.83	450.08	424.25	25.83	17.425		
3,700.00	3,635.40	3,615.83	3,602.49	14.23	13.64	134.30	7.66	321.97	488.52	461.91	26.61	18.360		
3,800.00	3,725.17	3,704.83	3,691.11	14.85	13.98	137.00	6.75	330.12	528.09	500.71	27.38	19.287		
3,900.00	3,814.95	3,793.83	3,779.73	15.50	14.33	139.33	5.85	338.26	568.57	540.42	28.15	20.198		
4,000.00	3,904.73	3,882.83	3,868.36	16.15	14.68	141.37	4.94	346.41	609.77	580.86	28.91	21.089		
4,100.00	3,994.50	3,971.83	3,956.98	16.82	15.03	143.16	4.04	354.55	651.56	621.88	29.68	21.955		
4,200.00	4,084.28	4,060.83	4,045.60	17.51	15.38	144.74	3.13	362.70	693.83	663.39	30.44	22.794		
4,300.00	4,174.06	4,149.83	4,134.23	18.20	15.72	146.14	2.22	370.84	736.49	705.29	31.20	23.606		
4,400.00	4,263.83	4,238.83	4,222.85	18.90	16.07	147.39	1.32	378.98	779.49	747.53	31.96	24.389		
4,500.00	4,353.61	4,327.83	4,311.47	19.62	16.42	148.52	0.41	387.13	822.76	790.04	32.72	25.145		
4,600.00	4,443.38	4,416.83	4,400.09	20.33	16.77	149.53	-0.50	395.27	866.27	832.79	33.48	25.874		
4,700.00	4,533.16	4,505.83	4,488.72	21.06	17.11	150.45	-1.40	403.42	909.99	875.75	34.24	26.576		
4,800.00	4,622.94	4,594.83	4,577.34	21.79	17.46	151.29	-2.31	411.56	953.89	918.88	35.00	27.252		
4,900.00	4,712.71	4,683.83	4,665.96	22.53	17.81	152.05	-3.21	419.71	997.93	962.17	35.76	27.904		
5,000.00	4,802.49	4,772.84	4,754.58	23.27	18.16	152.75	-4.12	427.85	1,042.11	1,005.58	36.53	28.531		

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 11-10-5H
<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 11-10-5H	<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		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,100.00	4,892.27	4,861.84	4,843.21	24.02	18.50	153.40	-5.03	435.99	1,086.41	1,049.12	37.29	29.135			
5,200.00	4,982.04	4,950.84	4,931.83	24.77	18.85	153.99	-5.93	444.14	1,130.80	1,092.75	38.05	29.717			
5,300.00	5,071.82	5,039.84	5,020.45	25.53	19.20	154.54	-6.84	452.28	1,175.29	1,136.48	38.82	30.277			
5,400.00	5,161.59	5,128.84	5,109.08	26.29	19.55	155.05	-7.74	460.43	1,219.87	1,180.28	39.58	30.818			
5,500.00	5,251.37	5,217.84	5,197.70	27.05	19.90	155.53	-8.65	468.57	1,264.51	1,224.16	40.35	31.339			
5,600.00	5,341.15	5,306.84	5,286.32	27.81	20.24	155.97	-9.56	476.71	1,309.22	1,268.11	41.12	31.841			
5,700.00	5,430.92	5,395.84	5,374.94	28.58	20.59	156.38	-10.46	484.86	1,353.99	1,312.11	41.89	32.326			
5,800.00	5,520.70	5,484.84	5,463.57	29.35	20.94	156.77	-11.37	493.00	1,398.81	1,356.16	42.65	32.794			
5,900.00	5,610.48	5,573.84	5,552.19	30.12	21.29	157.13	-12.27	501.15	1,443.69	1,400.26	43.42	33.246			
6,000.00	5,700.25	5,662.84	5,640.81	30.90	21.63	157.48	-13.18	509.29	1,488.60	1,444.41	44.19	33.683			
6,100.00	5,790.03	5,751.84	5,729.43	31.67	21.98	157.80	-14.09	517.44	1,533.56	1,488.59	44.97	34.105			
6,200.00	5,879.81	5,840.84	5,818.06	32.45	22.33	158.10	-14.99	525.58	1,578.55	1,532.81	45.74	34.513			
6,300.00	5,969.58	5,929.85	5,906.68	33.23	22.68	158.39	-15.90	533.72	1,623.57	1,577.06	46.51	34.908			
6,400.00	6,059.36	6,018.85	5,995.30	34.01	23.03	158.66	-16.80	541.87	1,668.63	1,621.35	47.28	35.289			
6,500.00	6,149.13	6,107.85	6,083.93	34.79	23.37	158.92	-17.71	550.01	1,713.71	1,665.66	48.06	35.659			
6,600.00	6,238.91	6,196.85	6,172.55	35.58	23.72	159.16	-18.62	558.16	1,758.83	1,709.99	48.83	36.017			
6,700.00	6,328.69	6,285.85	6,261.17	36.36	24.07	159.39	-19.52	566.30	1,803.96	1,754.35	49.61	36.363			
6,800.00	6,418.46	6,374.85	6,349.79	37.15	24.42	159.61	-20.43	574.45	1,849.12	1,798.73	50.39	36.699			
6,900.00	6,508.24	6,463.85	6,438.42	37.94	24.77	159.82	-21.33	582.59	1,894.30	1,843.13	51.16	37.025			
7,000.00	6,598.02	6,552.85	6,529.43	38.73	25.12	160.04	-22.24	590.73	1,939.47	1,887.64	51.93	37.349			
7,100.00	6,687.79	6,642.85	6,619.06	39.52	25.47	160.25	-23.16	598.87	1,984.64	1,931.13	52.70	37.664			
7,156.65	6,738.65	6,693.85	6,670.06	39.96	27.35	175.91	-32.94	135.95	1,976.79	1,922.31	54.48	36.284			
7,200.00	6,777.55	6,733.85	6,710.06	40.31	27.70	-172.68	-33.46	87.22	1,988.05	1,933.01	55.04	36.120			
7,250.00	6,822.15	6,778.85	6,754.28	40.70	27.74	-161.43	-33.51	81.67	2,001.94	1,946.62	55.32	36.189			
7,300.00	6,866.16	6,822.85	6,798.85	41.09	28.15	-149.86	-33.98	33.04	2,016.73	1,960.81	55.93	36.061			
7,350.00	6,909.24	6,865.85	6,841.00	41.47	28.34	-140.28	-34.17	12.05	2,032.16	1,975.87	56.30	36.097			
7,400.00	6,951.05	6,907.85	6,883.00	41.83	28.52	-131.97	-34.32	-6.09	2,048.10	1,991.46	56.64	36.123			
7,450.00	6,991.29	6,947.85	6,923.00	42.19	28.74	-124.66	-34.52	-28.22	2,064.31	2,007.32	56.99	36.260			
7,500.00	7,029.64	6,985.85	6,961.00	42.53	29.00	-118.24	-34.75	-54.16	2,080.54	2,023.17	57.38	36.261			
7,550.00	7,065.81	7,023.85	7,000.00	42.86	29.31	-112.58	-35.01	-83.74	2,096.54	2,038.74	57.80	36.272			
7,600.00	7,099.54	7,059.85	7,036.00	43.17	29.71	-107.61	-35.30	-116.71	2,112.04	2,053.72	58.32	36.213			
7,650.00	7,130.55	7,089.85	7,066.00	43.47	30.14	-103.25	-35.61	-152.83	2,126.78	2,067.89	58.90	36.110			
7,700.00	7,158.62	7,117.85	7,094.00	43.76	30.64	-99.47	-35.95	-191.82	2,140.52	2,080.97	59.56	35.941			
7,750.00	7,183.53	7,142.85	7,119.00	44.03	31.22	-96.23	-36.32	-233.39	2,153.02	2,092.69	60.33	35.685			
7,800.00	7,205.09	7,167.85	7,144.00	44.30	31.84	-93.51	-36.70	-277.22	2,164.08	2,102.89	61.19	35.368			
7,850.00	7,223.14	7,192.85	7,169.00	44.55	32.55	-91.29	-37.10	-322.98	2,173.49	2,111.30	62.19	34.948			
7,900.00	7,237.54	7,217.85	7,194.00	44.80	33.29	-89.55	-37.52	-370.32	2,181.11	2,117.83	63.28	34.467			
7,950.00	7,248.18	7,242.85	7,219.00	45.04	34.11	-88.28	-37.95	-418.87	2,186.81	2,122.31	64.50	33.902			
8,000.00	7,254.98	7,267.85	7,244.00	45.28	34.95	-87.48	-38.38	-468.28	2,190.48	2,124.67	65.81	33.283			
8,050.00	7,257.88	7,292.85	7,269.00	45.51	35.85	-87.14	-38.82	-518.15	2,192.07	2,124.84	67.23	32.603			
8,062.16	7,258.00	7,317.85	7,294.00	45.57	36.07	-87.12	-38.92	-530.31	2,192.14	2,124.55	67.59	32.432			
8,100.00	7,258.00	7,342.85	7,319.00	45.75	36.76	-87.12	-39.25	-568.15	2,192.15	2,123.43	68.72	31.898			
8,200.00	7,258.00	7,367.85	7,344.00	46.30	38.69	-87.12	-40.13	-668.14	2,192.19	2,120.26	71.93	30.475			
8,300.00	7,258.00	7,392.85	7,369.00	46.98	40.70	-87.12	-41.01	-768.14	2,192.23	2,116.83	75.40	29.074			
8,400.00	7,258.00	7,417.85	7,394.00	47.79	42.79	-87.12	-41.89	-868.14	2,192.27	2,113.18	79.09	27.718			
8,500.00	7,258.00	7,442.85	7,419.00	48.75	44.95	-87.12	-42.76	-968.13	2,192.31	2,109.33	82.98	26.421			
8,600.00	7,258.00	7,467.85	7,444.00	49.84	47.17	-87.12	-43.64	-1,068.13	2,192.35	2,105.32	87.03	25.190			
8,700.00	7,258.00	7,492.85	7,469.00	51.09	49.44	-87.12	-44.52	-1,168.13	2,192.39	2,101.16	91.23	24.031			
8,800.00	7,258.00	7,517.85	7,494.00	52.47	51.75	-87.12	-45.39	-1,268.12	2,192.43	2,096.87	95.56	22.943			
8,900.00	7,258.00	7,542.85	7,519.00	53.99	54.10	-87.12	-46.27	-1,368.12	2,192.46	2,092.47	100.00	21.926			
9,000.00	7,258.00	7,567.85	7,544.00	55.62	56.48	-87.12	-47.15	-1,468.11	2,192.50	2,087.97	104.53	20.975			
9,100.00	7,258.00	7,592.85	7,569.00	57.37	58.90	-87.12	-48.03	-1,568.11	2,192.54	2,083.40	109.15	20.088			

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 11-10-5H
<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 11-10-5H	<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				Rule Assigned:					Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,258.00	9,188.98	7,148.00	59.21	61.34	-87.12	-48.90	-1,668.11	2,192.58	2,078.74	113.84	19.261	
9,300.00	7,258.00	9,288.98	7,148.00	61.14	63.80	-87.12	-49.78	-1,768.10	2,192.62	2,074.03	118.59	18.488	
9,400.00	7,258.00	9,388.98	7,148.00	63.14	66.28	-87.12	-50.66	-1,868.10	2,192.66	2,069.25	123.41	17.768	
9,500.00	7,258.00	9,488.98	7,148.00	65.21	68.78	-87.12	-51.53	-1,968.09	2,192.70	2,064.43	128.27	17.094	
9,600.00	7,258.00	9,588.98	7,148.00	67.33	71.30	-87.12	-52.41	-2,068.09	2,192.74	2,059.56	133.18	16.464	
9,700.00	7,258.00	9,688.98	7,148.00	69.51	73.83	-87.12	-53.29	-2,168.09	2,192.77	2,054.65	138.13	15.875	
9,800.00	7,258.00	9,788.98	7,148.00	71.73	76.37	-87.12	-54.16	-2,268.08	2,192.81	2,049.70	143.11	15.322	
9,900.00	7,258.00	9,888.98	7,148.00	74.00	78.93	-87.12	-55.04	-2,368.08	2,192.85	2,044.72	148.13	14.803	
10,000.00	7,258.00	9,988.98	7,148.00	76.30	81.49	-87.12	-55.92	-2,468.08	2,192.89	2,039.71	153.18	14.316	
10,100.00	7,258.00	10,088.98	7,148.00	78.63	84.07	-87.12	-56.80	-2,568.07	2,192.93	2,034.68	158.25	13.857	
10,200.00	7,258.00	10,188.98	7,148.00	80.99	86.65	-87.12	-57.67	-2,668.07	2,192.97	2,029.62	163.35	13.425	
10,300.00	7,258.00	10,288.98	7,148.00	83.37	89.25	-87.12	-58.55	-2,768.06	2,193.01	2,024.54	168.47	13.018	
10,400.00	7,258.00	10,388.98	7,148.00	85.78	91.85	-87.12	-59.43	-2,868.06	2,193.05	2,019.44	173.60	12.633	
10,500.00	7,258.00	10,488.98	7,148.00	88.21	94.46	-87.12	-60.30	-2,968.06	2,193.09	2,014.33	178.76	12.268	
10,600.00	7,258.00	10,588.98	7,148.00	90.65	97.07	-87.13	-61.18	-3,068.05	2,193.12	2,009.19	183.93	11.924	
10,700.00	7,258.00	10,688.98	7,148.00	93.12	99.69	-87.13	-62.06	-3,168.05	2,193.16	2,004.05	189.12	11.597	
10,800.00	7,258.00	10,788.98	7,148.00	95.59	102.31	-87.13	-62.93	-3,268.04	2,193.20	1,998.88	194.32	11.287	
10,900.00	7,258.00	10,888.98	7,148.00	98.09	104.94	-87.13	-63.81	-3,368.04	2,193.24	1,993.71	199.53	10.992	
11,000.00	7,258.00	10,988.98	7,148.00	100.59	107.58	-87.13	-64.69	-3,468.04	2,193.28	1,988.52	204.76	10.712	
11,100.00	7,258.00	11,088.98	7,148.00	103.11	110.22	-87.13	-65.57	-3,568.03	2,193.32	1,983.33	209.99	10.445	
11,200.00	7,258.00	11,188.98	7,148.00	105.64	112.86	-87.13	-66.44	-3,668.03	2,193.36	1,978.12	215.24	10.190	
11,300.00	7,258.00	11,288.98	7,148.00	108.18	115.51	-87.13	-67.32	-3,768.03	2,193.40	1,972.90	220.49	9.948	
11,400.00	7,258.00	11,388.98	7,148.00	110.73	118.16	-87.13	-68.20	-3,868.02	2,193.43	1,967.68	225.76	9.716	
11,500.00	7,258.00	11,488.98	7,148.00	113.29	120.81	-87.13	-69.07	-3,968.02	2,193.47	1,962.44	231.03	9.494	
11,600.00	7,258.00	11,588.98	7,148.00	115.85	123.46	-87.13	-69.95	-4,068.01	2,193.51	1,957.20	236.31	9.282	
11,700.00	7,258.00	11,688.98	7,148.00	118.43	126.12	-87.13	-70.83	-4,168.01	2,193.55	1,951.96	241.60	9.079	
11,800.00	7,258.00	11,788.98	7,148.00	121.01	128.78	-87.13	-71.71	-4,268.01	2,193.59	1,946.70	246.89	8.885	
11,900.00	7,258.00	11,888.98	7,148.00	123.59	131.45	-87.13	-72.58	-4,368.00	2,193.63	1,941.44	252.19	8.698	
12,000.00	7,258.00	11,988.98	7,148.00	126.18	134.11	-87.13	-73.46	-4,468.00	2,193.67	1,936.17	257.49	8.519	
12,100.00	7,258.00	12,088.98	7,148.00	128.78	136.78	-87.13	-74.34	-4,567.99	2,193.71	1,930.90	262.80	8.347	
12,200.00	7,258.00	12,188.98	7,148.00	131.39	139.45	-87.13	-75.21	-4,667.99	2,193.75	1,925.63	268.12	8.182	
12,300.00	7,258.00	12,288.98	7,148.00	133.99	142.13	-87.13	-76.09	-4,767.99	2,193.78	1,920.34	273.44	8.023	
12,400.00	7,258.00	12,388.98	7,148.00	136.61	144.80	-87.13	-76.97	-4,867.98	2,193.82	1,915.06	278.77	7.870	
12,500.00	7,258.00	12,488.98	7,148.00	139.22	147.48	-87.13	-77.84	-4,967.98	2,193.86	1,909.77	284.09	7.722	
12,600.00	7,258.00	12,588.98	7,148.00	141.84	150.15	-87.13	-78.72	-5,067.98	2,193.90	1,904.47	289.43	7.580	
12,700.00	7,258.00	12,688.98	7,148.00	144.47	152.83	-87.13	-79.60	-5,167.97	2,193.94	1,899.18	294.76	7.443	
12,800.00	7,258.00	12,788.98	7,148.00	147.10	155.51	-87.13	-80.48	-5,267.97	2,193.98	1,893.87	300.11	7.311	
12,900.00	7,258.00	12,888.98	7,148.00	149.73	158.20	-87.13	-81.35	-5,367.96	2,194.02	1,888.57	305.45	7.183	
13,000.00	7,258.00	12,988.98	7,148.00	152.37	160.88	-87.13	-82.23	-5,467.96	2,194.06	1,883.26	310.80	7.059	
13,100.00	7,258.00	13,088.98	7,148.00	155.01	163.56	-87.13	-83.11	-5,567.96	2,194.10	1,877.95	316.15	6.940	
13,200.00	7,258.00	13,188.98	7,148.00	157.65	166.25	-87.13	-83.98	-5,667.95	2,194.13	1,872.63	321.50	6.825	
13,300.00	7,258.00	13,288.98	7,148.00	160.29	168.94	-87.13	-84.86	-5,767.95	2,194.17	1,867.32	326.86	6.713	
13,400.00	7,258.00	13,388.98	7,148.00	162.94	171.62	-87.13	-85.74	-5,867.94	2,194.21	1,862.00	332.21	6.605	
13,500.00	7,258.00	13,488.98	7,148.00	165.59	174.31	-87.13	-86.62	-5,967.94	2,194.25	1,856.68	337.58	6.500	
13,600.00	7,258.00	13,588.98	7,148.00	168.24	177.00	-87.13	-87.49	-6,067.94	2,194.29	1,851.35	342.94	6.398	
13,700.00	7,258.00	13,688.98	7,148.00	170.89	179.69	-87.13	-88.37	-6,167.93	2,194.33	1,846.02	348.30	6.300	
13,800.00	7,258.00	13,788.98	7,148.00	173.55	182.39	-87.13	-89.25	-6,267.93	2,194.37	1,840.69	353.67	6.205	
13,900.00	7,258.00	13,888.98	7,148.00	176.21	185.08	-87.13	-90.12	-6,367.93	2,194.41	1,835.36	359.04	6.112	
14,000.00	7,258.00	13,988.98	7,148.00	178.87	187.77	-87.13	-91.00	-6,467.92	2,194.44	1,830.03	364.41	6.022	
14,100.00	7,258.00	14,088.98	7,148.00	181.53	190.47	-87.13	-91.88	-6,567.92	2,194.48	1,824.69	369.79	5.934	
14,200.00	7,258.00	14,188.98	7,148.00	184.19	193.16	-87.13	-92.75	-6,667.91	2,194.52	1,819.36	375.16	5.849	
14,300.00	7,258.00	14,288.98	7,148.00	186.86	195.86	-87.13	-93.63	-6,767.91	2,194.56	1,814.02	380.54	5.767	

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 11-10-5H
<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 11-10-5H	<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			
14,400.00	7,258.00	14,388.98	7,148.00	189.53	198.55	-87.13	-94.51	-6,867.91	2,194.60	1,808.68	385.92	5.687			
14,500.00	7,258.00	14,488.98	7,148.00	192.20	201.25	-87.13	-95.39	-6,967.90	2,194.64	1,803.34	391.30	5.609			
14,600.00	7,258.00	14,588.98	7,148.00	194.87	203.95	-87.13	-96.26	-7,067.90	2,194.68	1,797.99	396.68	5.533			
14,700.00	7,258.00	14,688.98	7,148.00	197.54	206.65	-87.13	-97.14	-7,167.89	2,194.72	1,792.65	402.07	5.459			
14,800.00	7,258.00	14,788.98	7,148.00	200.21	209.35	-87.13	-98.02	-7,267.89	2,194.76	1,787.30	407.45	5.387			
14,900.00	7,258.00	14,888.98	7,148.00	202.89	212.05	-87.13	-98.89	-7,367.89	2,194.79	1,781.95	412.84	5.316			
15,000.00	7,258.00	14,988.98	7,148.00	205.56	214.75	-87.13	-99.77	-7,467.88	2,194.83	1,776.61	418.23	5.248			
15,100.00	7,258.00	15,088.98	7,148.00	208.24	217.45	-87.13	-100.65	-7,567.88	2,194.87	1,771.26	423.62	5.181			
15,200.00	7,258.00	15,188.98	7,148.00	210.92	220.15	-87.13	-101.53	-7,667.88	2,194.91	1,765.90	429.01	5.116			
15,300.00	7,258.00	15,288.98	7,148.00	213.60	222.85	-87.13	-102.40	-7,767.87	2,194.95	1,760.55	434.40	5.053			
15,400.00	7,258.00	15,388.98	7,148.00	216.28	225.55	-87.13	-103.28	-7,867.87	2,194.99	1,755.20	439.79	4.991			
15,500.00	7,258.00	15,488.98	7,148.00	218.96	228.26	-87.13	-104.16	-7,967.86	2,195.03	1,749.84	445.18	4.931			
15,600.00	7,258.00	15,588.98	7,148.00	221.64	230.96	-87.13	-105.03	-8,067.86	2,195.07	1,744.49	450.58	4.872			
15,700.00	7,258.00	15,688.98	7,148.00	224.32	233.66	-87.13	-105.91	-8,167.86	2,195.11	1,739.13	455.97	4.814			
15,800.00	7,258.00	15,788.98	7,148.00	227.01	236.37	-87.13	-106.79	-8,267.85	2,195.14	1,733.77	461.37	4.758			
15,837.79	7,258.00	15,826.77	7,148.00	228.02	237.39	-87.13	-107.12	-8,305.64	2,195.16	1,731.75	463.41	4.737 SF			

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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 11-10-11H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft			
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft			
Reference				Offset		Semi Major Axis		Highside		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	54.49	21.86	30.63	37.63								
100.00	100.00	100.00	100.00	0.14	0.14	54.49	21.86	30.63	37.63	37.34	0.29	131.212					
200.00	200.00	200.00	200.00	0.50	0.50	54.49	21.86	30.63	37.63	36.62	1.00	37.489					
300.00	300.00	300.00	300.00	0.86	0.86	54.49	21.86	30.63	37.63	35.91	1.72	21.869					
400.00	400.00	400.00	400.00	1.22	1.22	54.49	21.86	30.63	37.63	35.19	2.44	15.437					
500.00	500.00	500.00	500.00	1.58	1.58	54.49	21.86	30.63	37.63	34.47	3.15	11.928					
600.00	600.00	600.00	600.00	1.94	1.94	54.49	21.86	30.63	37.63	33.76	3.87	9.719					
700.00	700.00	700.00	700.00	2.29	2.29	54.49	21.86	30.63	37.63	33.04	4.59	8.201					
800.00	800.00	800.37	800.35	2.65	2.64	57.07	20.18	31.15	37.12	31.83	5.29	7.018					
900.00	900.00	900.49	900.33	3.01	2.97	65.14	15.17	32.72	36.07	30.09	5.98	6.032					
960.51	960.51	960.85	960.51	3.23	3.18	72.62	10.68	34.13	35.76	29.36	6.40	5.586 CC					
1,000.00	1,000.00	1,000.22	999.74	3.37	3.31	77.67	7.66	35.07	35.90	29.22	6.68	5.375 ES					
1,100.00	1,100.00	1,099.90	1,099.10	3.73	3.66	89.97	0.02	37.47	37.48	30.09	7.38	5.075					
1,200.00	1,200.00	1,199.57	1,198.45	4.09	4.02	100.84	-7.63	39.86	40.62	32.52	8.09	5.019 SF					
1,300.00	1,300.00	1,299.25	1,297.81	4.45	4.38	109.88	-15.28	42.26	44.99	36.19	8.80	5.112					
1,400.00	1,400.00	1,398.92	1,397.16	4.80	4.74	117.18	-22.92	44.65	50.27	40.77	9.51	5.287					
1,500.00	1,500.00	1,498.60	1,496.51	5.16	5.11	123.02	-30.57	47.05	56.22	46.00	10.22	5.502					
1,600.00	1,600.00	1,598.28	1,595.87	5.52	5.48	127.70	-38.22	49.44	62.63	51.70	10.93	5.732					
1,700.00	1,700.00	1,697.95	1,695.22	5.88	5.85	131.50	-45.87	51.84	69.38	57.74	11.64	5.963					
1,800.00	1,800.00	1,797.63	1,794.57	6.24	6.23	134.62	-53.51	54.23	76.38	64.04	12.35	6.187					
1,900.00	1,900.00	1,897.31	1,893.93	6.60	6.60	137.20	-61.16	56.63	83.57	70.51	13.06	6.400					
2,000.00	2,000.00	1,996.98	1,993.28	6.95	6.98	139.38	-68.81	59.02	90.90	77.13	13.77	6.601					
2,100.00	2,100.00	2,096.66	2,092.64	7.31	7.35	141.23	-76.45	61.42	98.34	83.86	14.48	6.790					
2,200.00	2,200.00	2,196.33	2,191.99	7.67	7.73	142.81	-84.10	63.81	105.87	90.68	15.20	6.967					
2,300.00	2,299.98	2,295.86	2,291.19	8.03	8.11	143.83	-91.74	66.20	114.87	98.96	15.91	7.221					
2,400.00	2,399.84	2,394.99	2,390.00	8.39	8.49	146.20	-99.34	68.58	126.85	110.24	16.62	7.634					
2,500.00	2,499.45	2,493.62	2,488.31	8.75	8.86	148.86	-106.91	70.95	141.98	124.66	17.32	8.197					
2,600.00	2,598.70	2,591.62	2,585.99	9.10	9.24	151.56	-114.43	73.31	160.41	142.39	18.02	8.900					
2,700.00	2,697.47	2,688.87	2,682.93	9.47	9.61	154.13	-121.89	75.64	182.22	163.50	18.72	9.732					
2,800.00	2,795.62	2,785.25	2,779.00	9.84	9.97	156.49	-129.28	77.96	207.46	188.04	19.42	10.683					
2,900.00	2,893.06	2,880.65	2,874.09	10.23	10.34	158.60	-136.60	80.25	236.15	216.03	20.11	11.740					
3,000.00	2,989.64	2,974.94	2,968.08	10.63	10.70	160.46	-143.84	82.52	268.24	247.44	20.80	12.895					
3,100.00	3,085.27	3,068.03	3,060.86	11.05	11.06	162.08	-150.98	84.75	303.72	282.24	21.49	14.136					
3,200.00	3,179.82	3,159.78	3,152.32	11.50	11.41	163.48	-158.02	86.96	342.53	320.37	22.16	15.455					
3,300.00	3,273.17	3,250.09	3,242.34	11.98	11.75	164.69	-164.95	89.13	384.61	361.78	22.83	16.844					
3,400.00	3,365.21	3,338.86	3,330.81	12.49	12.09	165.74	-171.76	91.26	429.91	406.41	23.50	18.295					
3,500.00	3,455.84	3,425.96	3,417.64	13.04	12.43	166.64	-178.44	93.35	478.34	454.19	24.15	19.804					
3,506.72	3,461.88	3,431.75	3,423.41	13.08	12.45	166.69	-178.88	93.49	481.71	457.51	24.20	19.907					
3,600.00	3,545.62	3,512.09	3,503.48	13.62	12.76	167.63	-185.05	95.42	528.58	503.77	24.81	21.309					
3,700.00	3,635.40	3,598.21	3,589.32	14.23	13.09	168.46	-191.65	97.49	578.93	553.47	25.46	22.741					
3,800.00	3,725.17	3,684.33	3,675.17	14.85	13.42	169.16	-198.26	99.56	629.35	603.23	26.11	24.100					
3,900.00	3,814.95	3,770.45	3,761.01	15.50	13.75	169.75	-204.87	101.63	679.83	653.06	26.77	25.391					
4,000.00	3,904.73	3,856.57	3,846.85	16.15	14.08	170.27	-211.48	103.70	730.36	702.92	27.44	26.618					
4,100.00	3,994.50	3,942.69	3,932.69	16.82	14.41	170.72	-218.08	105.77	780.93	752.82	28.11	27.785					
4,200.00	4,084.28	4,028.81	4,018.54	17.51	14.74	171.11	-224.69	107.83	831.53	802.75	28.78	28.895					
4,300.00	4,174.06	4,114.93	4,104.38	18.20	15.07	171.46	-231.30	109.90	882.16	852.70	29.45	29.952					
4,400.00	4,263.83	4,201.05	4,190.22	18.90	15.40	171.77	-237.90	111.97	932.80	902.67	30.13	30.960					
4,500.00	4,353.61	4,287.18	4,276.06	19.62	15.73	172.05	-244.51	114.04	983.47	952.66	30.81	31.921					
4,600.00	4,443.38	4,373.30	4,361.90	20.33	16.07	172.30	-251.12	116.11	1,034.15	1,002.66	31.49	32.838					
4,700.00	4,533.16	4,459.42	4,447.75	21.06	16.40	172.53	-257.73	118.18	1,084.84	1,052.67	32.18	33.715					
4,800.00	4,622.94	4,545.54	4,533.59	21.79	16.73	172.73	-264.33	120.25	1,135.55	1,102.69	32.86	34.553					
4,900.00	4,712.71	4,631.66	4,619.43	22.53	17.06	172.92	-270.94	122.32	1,186.27	1,152.71	33.55	35.354					

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 11-10-5H
<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 11-10-5H	<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 11-10-11H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		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	4,802.49	4,717.78	4,705.27	23.27	17.39	173.10	-277.55	124.39	1,236.99	1,202.75	34.25	36.121				
5,100.00	4,892.27	4,803.90	4,791.11	24.02	17.72	173.26	-284.16	126.46	1,287.73	1,252.79	34.94	36.856				
5,200.00	4,982.04	4,890.02	4,876.96	24.77	18.05	173.41	-290.76	128.52	1,338.47	1,302.83	35.63	37.561				
5,300.00	5,071.82	4,976.14	4,962.80	25.53	18.38	173.54	-297.37	130.59	1,389.21	1,352.88	36.33	38.237				
5,400.00	5,161.59	5,062.26	5,048.64	26.29	18.72	173.67	-303.98	132.66	1,439.97	1,402.93	37.03	38.886				
5,500.00	5,251.37	5,148.38	5,134.48	27.05	19.05	173.79	-310.58	134.73	1,490.72	1,452.99	37.73	39.509				
5,600.00	5,341.15	5,234.51	5,220.33	27.81	19.38	173.90	-317.19	136.80	1,541.48	1,503.05	38.43	40.108				
5,700.00	5,430.92	5,320.63	5,306.17	28.58	19.71	174.01	-323.80	138.87	1,592.25	1,553.11	39.14	40.684				
5,800.00	5,520.70	5,406.75	5,392.01	29.35	20.04	174.11	-330.41	140.94	1,643.02	1,603.18	39.84	41.239				
5,900.00	5,610.48	5,492.87	5,477.85	30.12	20.37	174.20	-337.01	143.01	1,693.79	1,653.24	40.55	41.773				
6,000.00	5,700.25	5,578.99	5,563.69	30.90	20.71	174.28	-343.62	145.08	1,744.57	1,703.31	41.26	42.287				
6,100.00	5,790.03	5,665.11	5,649.54	31.67	21.04	174.37	-350.23	147.15	1,795.35	1,753.38	41.96	42.783				
6,200.00	5,879.81	5,751.23	5,735.38	32.45	21.37	174.44	-356.83	149.21	1,846.13	1,803.45	42.67	43.262				
6,300.00	5,969.58	5,837.35	5,821.22	33.23	21.70	174.52	-363.44	151.28	1,896.91	1,853.53	43.38	43.723				
6,400.00	6,059.36	5,923.47	5,907.06	34.01	22.03	174.59	-370.05	153.35	1,947.70	1,903.60	44.10	44.169				
6,500.00	6,149.13	6,009.59	5,992.90	34.79	22.36	174.65	-376.66	155.42	1,998.48	1,953.67	44.81	44.600				
6,600.00	6,238.91	6,095.71	6,078.75	35.58	22.70	174.71	-383.26	157.49	2,049.27	2,003.75	45.52	45.016				
6,700.00	6,328.69	6,181.84	6,164.59	36.36	23.03	174.77	-389.87	159.56	2,100.06	2,053.83	46.24	45.418				
6,800.00	6,418.46	6,267.96	6,250.43	37.15	23.36	174.83	-396.48	161.63	2,150.86	2,103.90	46.95	45.807				
6,900.00	6,508.24	6,354.08	6,336.27	37.94	23.69	174.88	-403.09	163.70	2,201.65	2,153.98	47.67	46.184				
7,000.00	6,598.02	6,440.20	6,422.12	38.73	24.02	174.94	-409.69	165.77	2,252.45	2,204.06	48.39	46.549				
7,100.00	6,687.79	6,526.32	6,507.96	39.52	24.36	174.99	-416.30	167.84	2,303.24	2,254.14	49.11	46.902				
7,156.65	6,738.65	6,575.11	6,556.59	39.96	24.54	175.01	-420.04	169.01	2,332.02	2,282.51	49.52	47.097				
7,200.00	6,777.55	6,612.38	6,593.74	40.31	24.69	-173.66	-422.90	169.90	2,354.12	2,304.29	49.83	47.247				
7,250.00	6,822.15	6,655.03	6,636.25	40.70	24.85	-161.20	-426.17	170.93	2,379.68	2,329.50	50.18	47.424				
7,300.00	6,866.16	6,699.93	6,681.01	41.09	25.02	-149.90	-429.62	171.89	2,405.16	2,354.62	50.55	47.583				
7,350.00	6,909.24	6,756.69	6,737.51	41.47	25.23	-140.02	-434.00	169.29	2,430.24	2,379.26	50.98	47.666				
7,400.00	6,951.05	6,815.70	6,795.68	41.83	25.43	-131.48	-438.56	160.66	2,454.66	2,403.24	51.42	47.742				
7,450.00	6,991.29	6,877.28	6,855.10	42.19	25.62	-124.19	-443.28	145.30	2,478.20	2,426.36	51.84	47.803				
7,500.00	7,029.64	6,941.72	6,915.14	42.53	25.81	-117.97	-448.10	122.49	2,500.68	2,448.41	52.27	47.843				
7,550.00	7,065.81	7,009.24	6,974.89	42.86	25.99	-112.68	-452.97	91.49	2,521.90	2,469.19	52.71	47.849				
7,600.00	7,099.54	7,079.94	7,033.08	43.17	26.15	-108.16	-457.79	51.72	2,541.65	2,488.48	53.17	47.802				
7,650.00	7,130.55	7,153.71	7,088.12	43.47	26.30	-104.31	-462.44	2.89	2,559.76	2,506.07	53.69	47.679				
7,700.00	7,158.62	7,230.23	7,138.11	43.76	26.45	-101.03	-466.78	-54.81	2,576.03	2,521.73	54.30	47.442				
7,750.00	7,183.53	7,308.91	7,181.04	44.03	26.62	-98.23	-470.64	-120.55	2,590.32	2,535.28	55.04	47.064				
7,800.00	7,205.09	7,388.89	7,215.06	44.30	26.93	-95.87	-473.86	-192.79	2,602.47	2,546.53	55.94	46.519				
7,850.00	7,223.14	7,469.14	7,238.79	44.55	27.49	-93.88	-476.33	-269.34	2,612.39	2,555.36	57.03	45.806				
7,900.00	7,237.54	7,548.54	7,251.55	44.80	28.23	-92.25	-477.96	-347.63	2,620.01	2,561.73	58.28	44.955				
7,950.00	7,248.18	7,617.22	7,254.00	45.04	29.00	-91.00	-478.72	-416.23	2,625.30	2,565.75	59.55	44.084				
8,000.00	7,254.98	7,666.63	7,254.00	45.28	29.61	-90.25	-479.13	-465.64	2,628.63	2,567.97	60.66	43.333				
8,050.00	7,257.88	7,716.51	7,254.00	45.51	30.27	-89.93	-479.55	-515.52	2,630.05	2,568.20	61.85	42.521				
8,062.16	7,258.00	7,728.66	7,254.00	45.57	30.44	-89.91	-479.65	-527.67	2,630.11	2,567.95	62.16	42.309				
8,100.00	7,258.00	7,766.51	7,254.00	45.75	30.99	-89.91	-479.96	-565.51	2,630.11	2,566.96	63.15	41.647				
8,200.00	7,258.00	7,866.51	7,254.00	46.30	32.53	-89.91	-480.79	-665.51	2,630.10	2,564.10	66.00	39.850				
8,300.00	7,258.00	7,966.51	7,254.00	46.98	34.22	-89.91	-481.62	-765.51	2,630.09	2,560.93	69.16	38.031				
8,400.00	7,258.00	8,066.51	7,254.00	47.79	36.03	-89.91	-482.45	-865.50	2,630.08	2,557.50	72.59	36.234				
8,500.00	7,258.00	8,166.51	7,254.00	48.75	37.96	-89.91	-483.28	-965.50	2,630.08	2,553.83	76.25	34.494				
8,600.00	7,258.00	8,266.51	7,254.00	49.84	39.98	-89.91	-484.11	-1,065.50	2,630.07	2,549.96	80.11	32.830				
8,700.00	7,258.00	8,366.51	7,254.00	51.09	42.07	-89.91	-484.94	-1,165.49	2,630.06	2,545.91	84.15	31.254				
8,800.00	7,258.00	8,466.51	7,254.00	52.47	44.24	-89.91	-485.77	-1,265.49	2,630.05	2,541.71	88.34	29.772				
8,900.00	7,258.00	8,566.51	7,254.00	53.99	46.46	-89.91	-486.60	-1,365.48	2,630.05	2,537.39	92.66	28.384				
9,000.00	7,258.00	8,666.51	7,254.00	55.62	48.73	-89.91	-487.43	-1,465.48	2,630.04	2,532.95	97.09	27.088				

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 11-10-5H
<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 11-10-5H	<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 11-10-11H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft		
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
9,100.00	7,258.00	8,766.51	7,254.00	57.37	51.05	-89.91	-488.26	-1,565.48	2,630.03	2,528.41	101.62	25.880				
9,200.00	7,258.00	8,866.51	7,254.00	59.21	53.41	-89.91	-489.09	-1,665.47	2,630.02	2,523.78	106.24	24.756				
9,300.00	7,258.00	8,966.51	7,254.00	61.14	55.79	-89.91	-489.93	-1,765.47	2,630.01	2,519.08	110.93	23.709				
9,400.00	7,258.00	9,066.51	7,254.00	63.14	58.21	-89.91	-490.76	-1,865.47	2,630.01	2,514.32	115.69	22.734				
9,500.00	7,258.00	9,166.51	7,254.00	65.21	60.66	-89.91	-491.59	-1,965.46	2,630.00	2,509.50	120.50	21.825				
9,600.00	7,258.00	9,266.51	7,254.00	67.33	63.12	-89.91	-492.42	-2,065.46	2,629.99	2,504.62	125.37	20.978				
9,700.00	7,258.00	9,366.51	7,254.00	69.51	65.61	-89.91	-493.25	-2,165.46	2,629.98	2,499.70	130.28	20.187				
9,800.00	7,258.00	9,466.51	7,254.00	71.73	68.11	-89.91	-494.08	-2,265.45	2,629.97	2,494.74	135.24	19.447				
9,900.00	7,258.00	9,566.51	7,254.00	74.00	70.63	-89.91	-494.91	-2,365.45	2,629.97	2,489.74	140.22	18.755				
10,000.00	7,258.00	9,666.51	7,254.00	76.30	73.17	-89.91	-495.74	-2,465.45	2,629.96	2,484.71	145.25	18.107				
10,100.00	7,258.00	9,766.51	7,254.00	78.63	75.72	-89.91	-496.57	-2,565.44	2,629.95	2,479.65	150.30	17.498				
10,200.00	7,258.00	9,866.51	7,254.00	80.99	78.28	-89.91	-497.40	-2,665.44	2,629.94	2,474.57	155.38	16.926				
10,300.00	7,258.00	9,966.51	7,254.00	83.37	80.85	-89.91	-498.23	-2,765.44	2,629.94	2,469.46	160.48	16.388				
10,400.00	7,258.00	10,066.51	7,254.00	85.78	83.43	-89.91	-499.06	-2,865.43	2,629.93	2,464.33	165.60	15.881				
10,500.00	7,258.00	10,166.51	7,254.00	88.21	86.02	-89.91	-499.89	-2,965.43	2,629.92	2,459.17	170.75	15.403				
10,600.00	7,258.00	10,266.51	7,254.00	90.65	88.61	-89.91	-500.72	-3,065.43	2,629.91	2,454.01	175.91	14.951				
10,700.00	7,258.00	10,366.51	7,254.00	93.12	91.22	-89.91	-501.55	-3,165.42	2,629.90	2,448.82	181.08	14.523				
10,800.00	7,258.00	10,466.51	7,254.00	95.59	93.83	-89.91	-502.38	-3,265.42	2,629.90	2,443.62	186.28	14.118				
10,900.00	7,258.00	10,566.51	7,254.00	98.09	96.44	-89.91	-503.21	-3,365.42	2,629.89	2,438.40	191.49	13.734				
11,000.00	7,258.00	10,666.51	7,254.00	100.59	99.07	-89.91	-504.04	-3,465.41	2,629.88	2,433.18	196.71	13.370				
11,100.00	7,258.00	10,766.51	7,254.00	103.11	101.69	-89.91	-504.87	-3,565.41	2,629.87	2,427.94	201.94	13.023				
11,200.00	7,258.00	10,866.51	7,254.00	105.64	104.33	-89.91	-505.70	-3,665.41	2,629.86	2,422.69	207.18	12.694				
11,300.00	7,258.00	10,966.51	7,254.00	108.18	106.96	-89.91	-506.53	-3,765.40	2,629.86	2,417.42	212.43	12.380				
11,400.00	7,258.00	11,066.51	7,254.00	110.73	109.60	-89.91	-507.36	-3,865.40	2,629.85	2,412.15	217.69	12.080				
11,500.00	7,258.00	11,166.51	7,254.00	113.29	112.25	-89.91	-508.19	-3,965.40	2,629.84	2,406.88	222.97	11.795				
11,600.00	7,258.00	11,266.51	7,254.00	115.85	114.90	-89.91	-509.02	-4,065.39	2,629.83	2,401.59	228.24	11.522				
11,700.00	7,258.00	11,366.51	7,254.00	118.43	117.55	-89.91	-509.85	-4,165.39	2,629.83	2,396.30	233.53	11.261				
11,800.00	7,258.00	11,466.51	7,254.00	121.01	120.20	-89.91	-510.68	-4,265.38	2,629.82	2,390.99	238.82	11.012				
11,900.00	7,258.00	11,566.51	7,254.00	123.59	122.86	-89.91	-511.51	-4,365.38	2,629.81	2,385.69	244.12	10.772				
12,000.00	7,258.00	11,666.51	7,254.00	126.18	125.52	-89.91	-512.34	-4,465.38	2,629.80	2,380.37	249.43	10.543				
12,100.00	7,258.00	11,766.51	7,254.00	128.78	128.19	-89.91	-513.17	-4,565.37	2,629.79	2,375.05	254.74	10.323				
12,200.00	7,258.00	11,866.51	7,254.00	131.39	130.85	-89.91	-514.00	-4,665.37	2,629.79	2,369.73	260.06	10.112				
12,300.00	7,258.00	11,966.51	7,254.00	133.99	133.52	-89.91	-514.84	-4,765.37	2,629.78	2,364.40	265.38	9.909				
12,400.00	7,258.00	12,066.51	7,254.00	136.61	136.19	-89.91	-515.67	-4,865.36	2,629.77	2,359.06	270.71	9.714				
12,500.00	7,258.00	12,166.51	7,254.00	139.22	138.86	-89.91	-516.50	-4,965.36	2,629.76	2,353.72	276.04	9.527				
12,600.00	7,258.00	12,266.51	7,254.00	141.84	141.54	-89.91	-517.33	-5,065.36	2,629.76	2,348.38	281.38	9.346				
12,700.00	7,258.00	12,366.51	7,254.00	144.47	144.21	-89.91	-518.16	-5,165.35	2,629.75	2,343.03	286.72	9.172				
12,800.00	7,258.00	12,466.51	7,254.00	147.10	146.89	-89.91	-518.99	-5,265.35	2,629.74	2,337.68	292.06	9.004				
12,900.00	7,258.00	12,566.51	7,254.00	149.73	149.57	-89.91	-519.82	-5,365.35	2,629.73	2,332.32	297.41	8.842				
13,000.00	7,258.00	12,666.51	7,254.00	152.37	152.25	-89.91	-520.65	-5,465.34	2,629.72	2,326.96	302.76	8.686				
13,100.00	7,258.00	12,766.51	7,254.00	155.01	154.93	-89.91	-521.48	-5,565.34	2,629.72	2,321.60	308.12	8.535				
13,200.00	7,258.00	12,866.51	7,254.00	157.65	157.61	-89.91	-522.31	-5,665.34	2,629.71	2,316.23	313.47	8.389				
13,300.00	7,258.00	12,966.51	7,254.00	160.29	160.30	-89.91	-523.14	-5,765.33	2,629.70	2,310.87	318.83	8.248				
13,400.00	7,258.00	13,066.51	7,254.00	162.94	162.98	-89.91	-523.97	-5,865.33	2,629.69	2,305.49	324.20	8.111				
13,500.00	7,258.00	13,166.51	7,254.00	165.59	165.67	-89.91	-524.80	-5,965.33	2,629.68	2,300.12	329.56	7.979				
13,600.00	7,258.00	13,266.51	7,254.00	168.24	168.36	-89.91	-525.63	-6,065.32	2,629.68	2,294.74	334.93	7.851				
13,700.00	7,258.00	13,366.51	7,254.00	170.89	171.05	-89.91	-526.46	-6,165.32	2,629.67	2,289.37	340.30	7.727				
13,800.00	7,258.00	13,466.51	7,254.00	173.55	173.74	-89.91	-527.29	-6,265.32	2,629.66	2,283.99	345.68	7.607				
13,900.00	7,258.00	13,566.51	7,254.00	176.21	176.43	-89.91	-528.12	-6,365.31	2,629.65	2,278.60	351.05	7.491				
14,000.00	7,258.00	13,666.51	7,254.00	178.87	179.12	-89.91	-528.95	-6,465.31	2,629.65	2,273.22	356.43	7.378				
14,100.00	7,258.00	13,766.51	7,254.00	181.53	181.81	-89.91	-529.78	-6,565.31	2,629.64	2,267.83	361.81	7.268				
14,200.00	7,258.00	13,866.51	7,254.00	184.19	184.51	-89.91	-530.61	-6,665.30	2,629.63	2,262.44	367.19	7.162				

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 11-10-5H
<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 11-10-5H	<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 11-10-11H - ORIGINAL WELLBORE - PROPOSAL #1													Offset Site Error:	0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance			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	7,258.00	13,966.51	7,254.00	186.86	187.20	-89.91	-531.44	-6,765.30	2,629.62	2,257.05	372.57	7.058			
14,400.00	7,258.00	14,066.51	7,254.00	189.53	189.90	-89.91	-532.27	-6,865.30	2,629.61	2,251.66	377.96	6.957			
14,500.00	7,258.00	14,166.51	7,254.00	192.20	192.59	-89.91	-533.10	-6,965.29	2,629.61	2,246.26	383.34	6.860			
14,600.00	7,258.00	14,266.51	7,254.00	194.87	195.29	-89.91	-533.93	-7,065.29	2,629.60	2,240.87	388.73	6.765			
14,700.00	7,258.00	14,366.51	7,254.00	197.54	197.99	-89.91	-534.76	-7,165.29	2,629.59	2,235.47	394.12	6.672			
14,800.00	7,258.00	14,466.51	7,254.00	200.21	200.69	-89.91	-535.59	-7,265.28	2,629.58	2,230.07	399.51	6.582			
14,900.00	7,258.00	14,566.51	7,254.00	202.89	203.39	-89.91	-536.42	-7,365.28	2,629.58	2,224.67	404.90	6.494			
15,000.00	7,258.00	14,666.51	7,254.00	205.56	206.08	-89.91	-537.25	-7,465.27	2,629.57	2,219.27	410.30	6.409			
15,100.00	7,258.00	14,766.51	7,254.00	208.24	208.78	-89.91	-538.08	-7,565.27	2,629.56	2,213.87	415.69	6.326			
15,200.00	7,258.00	14,866.51	7,254.00	210.92	211.49	-89.91	-538.91	-7,665.27	2,629.55	2,208.46	421.09	6.245			
15,300.00	7,258.00	14,966.51	7,254.00	213.60	214.19	-89.91	-539.74	-7,765.26	2,629.54	2,203.06	426.48	6.166			
15,400.00	7,258.00	15,066.51	7,254.00	216.28	216.89	-89.91	-540.58	-7,865.26	2,629.54	2,197.65	431.88	6.089			
15,500.00	7,258.00	15,166.51	7,254.00	218.96	219.59	-89.91	-541.41	-7,965.26	2,629.53	2,192.24	437.28	6.013			
15,600.00	7,258.00	15,266.51	7,254.00	221.64	222.29	-89.91	-542.24	-8,065.25	2,629.52	2,186.84	442.68	5.940			
15,700.00	7,258.00	15,366.51	7,254.00	224.32	225.00	-89.91	-543.07	-8,165.25	2,629.51	2,181.43	448.09	5.868			
15,800.00	7,258.00	15,466.51	7,254.00	227.01	227.70	-89.91	-543.90	-8,265.25	2,629.50	2,176.02	453.49	5.798			
15,837.79	7,258.00	15,504.64	7,254.00	228.02	228.73	-89.91	-544.21	-8,303.38	2,629.50	2,173.96	455.54	5.772			

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	76.62	7.29	30.63	31.48						
100.00	100.00	100.00	100.00	0.14	0.14	76.62	7.29	30.63	31.48	31.20	0.29	109.785			
200.00	200.00	200.00	200.00	0.50	0.50	76.62	7.29	30.63	31.48	30.48	1.00	31.367			
300.00	300.00	300.00	300.00	0.86	0.86	76.62	7.29	30.63	31.48	29.76	1.72	18.297			
400.00	400.00	400.00	400.00	1.22	1.22	76.62	7.29	30.63	31.48	29.05	2.44	12.916			
500.00	500.00	500.00	500.00	1.58	1.58	76.62	7.29	30.63	31.48	28.33	3.15	9.980			
600.00	600.00	600.00	600.00	1.94	1.94	76.62	7.29	30.63	31.48	27.61	3.87	8.132	CC		
700.00	700.00	699.84	699.82	2.29	2.28	79.74	5.65	31.22	31.73	27.16	4.57	6.941	ES		
800.00	800.00	799.43	799.27	2.65	2.61	88.68	0.76	32.98	33.00	27.74	5.26	6.273			
900.00	900.00	898.55	898.01	3.01	2.95	101.55	-7.34	35.89	36.69	30.74	5.96	6.161	SF		
1,000.00	1,000.00	996.95	995.68	3.37	3.31	114.91	-18.55	39.93	44.24	37.59	6.65	6.654			
1,100.00	1,100.00	1,095.24	1,092.86	3.73	3.68	125.84	-32.46	44.94	55.89	48.56	7.34	7.615			
1,200.00	1,200.00	1,194.05	1,190.48	4.09	4.08	133.04	-46.80	50.10	69.22	61.18	8.04	8.607			
1,300.00	1,300.00	1,292.85	1,288.10	4.45	4.48	137.89	-61.14	55.27	83.27	74.52	8.75	9.521			
1,400.00	1,400.00	1,391.65	1,385.72	4.80	4.89	141.32	-75.47	60.43	97.74	88.28	9.45	10.338			
1,500.00	1,500.00	1,490.46	1,483.34	5.16	5.30	143.86	-89.81	65.59	112.46	102.29	10.16	11.064			
1,600.00	1,600.00	1,589.26	1,580.96	5.52	5.72	145.81	-104.15	70.76	127.35	116.47	10.88	11.708			
1,700.00	1,700.00	1,688.06	1,678.58	5.88	6.14	147.35	-118.49	75.92	142.35	130.76	11.59	12.281			
1,800.00	1,800.00	1,786.87	1,776.20	6.24	6.57	148.60	-132.83	81.08	157.43	145.13	12.31	12.794			
1,900.00	1,900.00	1,885.67	1,873.82	6.60	6.99	149.63	-147.17	86.25	172.58	159.55	13.02	13.253			
2,000.00	2,000.00	1,984.47	1,971.44	6.95	7.42	150.49	-161.51	91.41	187.77	174.03	13.74	13.667			
2,100.00	2,100.00	2,083.28	2,069.06	7.31	7.85	151.22	-175.85	96.57	202.99	188.53	14.46	14.041			
2,200.00	2,200.00	2,182.08	2,166.68	7.67	8.28	151.86	-190.18	101.74	218.24	203.07	15.18	14.381			
2,300.00	2,299.98	2,280.61	2,264.04	8.03	8.71	151.68	-204.48	106.89	235.04	219.14	15.89	14.788			
2,400.00	2,399.84	2,378.52	2,360.77	8.39	9.14	152.51	-218.69	112.00	254.91	238.30	16.61	15.348			
2,500.00	2,499.45	2,475.68	2,456.77	8.75	9.57	153.50	-232.79	117.08	277.89	260.58	17.32	16.047			
2,600.00	2,598.70	2,571.98	2,551.92	9.10	10.00	154.57	-246.77	122.11	304.04	286.02	18.02	16.871			
2,700.00	2,697.47	2,667.31	2,646.10	9.47	10.42	155.68	-260.60	127.10	333.37	314.64	18.72	17.807			
2,800.00	2,795.62	2,761.53	2,739.20	9.84	10.83	156.76	-274.28	132.02	365.89	346.47	19.42	18.846			
2,900.00	2,893.06	2,854.55	2,831.11	10.23	11.24	157.81	-287.78	136.88	401.61	381.51	20.10	19.976			
3,000.00	2,989.64	2,946.25	2,921.71	10.63	11.65	158.79	-301.08	141.67	440.51	419.73	20.79	21.191			
3,100.00	3,085.27	3,036.51	3,010.88	11.05	12.05	159.71	-314.18	146.39	482.57	461.11	21.47	22.481			
3,200.00	3,179.82	3,125.22	3,098.54	11.50	12.44	160.54	-327.06	151.03	527.76	505.62	22.14	23.841			
3,300.00	3,273.17	3,212.28	3,184.56	11.98	12.83	161.31	-339.69	155.58	576.02	553.22	22.80	25.263			
3,400.00	3,365.21	3,297.58	3,268.84	12.49	13.21	161.99	-352.07	160.03	627.31	603.85	23.46	26.743			
3,500.00	3,455.84	3,381.02	3,351.28	13.04	13.58	162.60	-364.18	164.39	681.56	657.45	24.10	28.275			
3,506.72	3,461.88	3,386.56	3,356.75	13.08	13.60	162.64	-364.98	164.68	685.31	661.16	24.15	28.380			
3,600.00	3,545.62	3,463.37	3,432.64	13.62	13.94	163.48	-376.13	168.70	737.52	712.77	24.75	29.803			
3,700.00	3,635.40	3,545.71	3,513.99	14.23	14.31	164.26	-388.08	173.00	793.60	768.21	25.39	31.258			
3,800.00	3,725.17	3,628.05	3,595.35	14.85	14.68	164.94	-400.03	177.30	849.76	823.73	26.04	32.639			
3,900.00	3,814.95	3,710.39	3,676.70	15.50	15.04	165.53	-411.98	181.61	906.00	879.31	26.69	33.951			
4,000.00	3,904.73	3,792.73	3,758.06	16.15	15.41	166.06	-423.93	185.91	962.30	934.96	27.34	35.198			
4,100.00	3,994.50	3,875.07	3,839.42	16.82	15.78	166.53	-435.88	190.21	1,018.65	990.65	28.00	36.384			
4,200.00	4,084.28	3,957.41	3,920.77	17.51	16.14	166.94	-447.83	194.52	1,075.03	1,046.38	28.66	37.513			
4,300.00	4,174.06	4,039.75	4,002.13	18.20	16.51	167.32	-459.78	198.82	1,131.46	1,102.14	29.32	38.589			
4,400.00	4,263.83	4,122.10	4,083.48	18.90	16.88	167.66	-471.73	203.12	1,187.91	1,157.93	29.99	39.614			
4,500.00	4,353.61	4,204.44	4,164.84	19.62	17.24	167.98	-483.68	207.42	1,244.39	1,213.74	30.66	40.593			
4,600.00	4,443.38	4,286.78	4,246.19	20.33	17.61	168.26	-495.63	211.73	1,300.90	1,269.57	31.33	41.527			
4,700.00	4,533.16	4,369.12	4,327.55	21.06	17.98	168.52	-507.58	216.03	1,357.42	1,325.42	32.00	42.419			
4,800.00	4,622.94	4,451.46	4,408.91	21.79	18.34	168.76	-519.53	220.33	1,413.97	1,381.29	32.68	43.272			
4,900.00	4,712.71	4,533.80	4,490.26	22.53	18.71	168.98	-531.48	224.64	1,470.52	1,437.17	33.35	44.089			
5,000.00	4,802.49	4,616.14	4,571.62	23.27	19.08	169.19	-543.43	228.94	1,527.09	1,493.06	34.03	44.870			

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 11-10-5H
<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 11-10-5H	<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		Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,100.00	4,892.27	4,698.48	4,652.97	24.02	19.45	169.38	-555.38	233.24	1,583.68	1,548.96	34.71	45.619			
5,200.00	4,982.04	4,780.82	4,734.33	24.77	19.81	169.56	-567.32	237.55	1,640.27	1,604.87	35.40	46.338			
5,300.00	5,071.82	4,863.17	4,815.68	25.53	20.18	169.72	-579.27	241.85	1,696.88	1,660.79	36.08	47.027			
5,400.00	5,161.59	4,945.51	4,897.04	26.29	20.55	169.88	-591.22	246.15	1,753.49	1,716.72	36.77	47.688			
5,500.00	5,251.37	5,027.85	4,978.39	27.05	20.92	170.02	-603.17	250.46	1,810.11	1,772.66	37.46	48.323			
5,600.00	5,341.15	5,110.19	5,059.75	27.81	21.28	170.16	-615.12	254.76	1,866.74	1,828.60	38.15	48.934			
5,700.00	5,430.92	5,192.53	5,141.11	28.58	21.65	170.29	-627.07	259.06	1,923.38	1,884.54	38.84	49.522			
5,800.00	5,520.70	5,274.87	5,222.46	29.35	22.02	170.41	-639.02	263.36	1,980.02	1,940.49	39.53	50.087			
5,900.00	5,610.48	5,357.21	5,303.82	30.12	22.39	170.52	-650.97	267.67	2,036.67	1,996.45	40.23	50.631			
6,000.00	5,700.25	5,439.55	5,385.17	30.90	22.75	170.63	-662.92	271.97	2,093.32	2,052.40	40.92	51.156			
6,100.00	5,790.03	5,521.89	5,466.53	31.67	23.12	170.73	-674.87	276.27	2,149.98	2,108.37	41.62	51.661			
6,200.00	5,879.81	5,604.23	5,547.88	32.45	23.49	170.83	-686.82	280.58	2,206.65	2,164.33	42.31	52.149			
6,300.00	5,969.58	5,686.58	5,629.24	33.23	23.86	170.92	-698.77	284.88	2,263.31	2,220.30	43.01	52.619			
6,400.00	6,059.36	5,768.92	5,710.60	34.01	24.23	171.01	-710.72	289.18	2,319.98	2,276.27	43.71	53.073			
6,500.00	6,149.13	5,851.26	5,791.95	34.79	24.59	171.09	-722.67	293.49	2,376.66	2,332.24	44.41	53.512			
6,600.00	6,238.91	5,933.60	5,873.31	35.58	24.96	171.17	-734.62	297.79	2,433.33	2,388.22	45.12	53.936			
6,700.00	6,328.69	6,015.94	5,954.66	36.36	25.33	171.25	-746.57	302.09	2,490.01	2,444.20	45.82	54.346			
6,800.00	6,418.46	6,098.28	6,036.02	37.15	25.70	171.32	-758.52	306.40	2,546.70	2,500.18	46.52	54.742			
6,900.00	6,508.24	6,180.62	6,117.37	37.94	26.07	171.39	-770.47	310.70	2,603.38	2,556.16	47.23	55.125			
7,000.00	6,598.02	6,262.96	6,198.73	38.73	26.44	171.46	-782.42	315.00	2,660.07	2,612.14	47.93	55.496			
7,100.00	6,687.79	6,345.30	6,280.08	39.52	26.80	171.52	-794.37	319.31	2,716.76	2,668.12	48.64	55.856			
7,156.65	6,738.65	6,391.95	6,326.17	39.96	27.01	171.56	-801.14	321.74	2,748.88	2,699.84	49.04	56.054			
7,200.00	6,777.55	6,427.54	6,361.34	40.31	27.17	-176.68	-806.30	323.60	2,773.61	2,724.26	49.34	56.210			
7,250.00	6,822.15	6,468.15	6,401.46	40.70	27.35	-163.65	-812.20	325.72	2,802.37	2,752.69	49.69	56.402			
7,300.00	6,866.16	6,507.99	6,440.82	41.09	27.53	-151.72	-817.98	327.81	2,831.21	2,781.20	50.01	56.608			
7,350.00	6,909.24	6,561.20	6,493.42	41.47	27.76	-141.26	-825.71	329.98	2,859.92	2,809.49	50.44	56.705			
7,400.00	6,951.05	6,650.98	6,581.91	41.83	28.12	-132.42	-838.80	323.50	2,887.85	2,836.77	51.08	56.537			
7,450.00	6,991.29	6,749.67	6,676.68	42.19	28.44	-124.79	-852.95	300.38	2,914.55	2,862.85	51.70	56.377			
7,500.00	7,029.64	6,857.25	6,773.81	42.53	28.71	-118.20	-867.62	256.89	2,939.70	2,887.41	52.29	56.221			
7,550.00	7,065.81	6,972.24	6,866.75	42.86	28.93	-112.44	-881.86	191.03	2,962.97	2,910.09	52.88	56.032			
7,600.00	7,099.54	7,091.40	6,947.32	43.17	29.08	-107.33	-894.45	104.45	2,984.10	2,930.55	53.55	55.729			
7,650.00	7,130.55	7,210.18	7,008.30	43.47	29.18	-102.78	-904.28	3.24	3,002.88	2,948.48	54.40	55.205			
7,700.00	7,158.62	7,323.95	7,046.16	43.76	29.29	-98.73	-910.75	-103.65	3,019.20	2,963.72	55.48	54.424			
7,750.00	7,183.53	7,429.28	7,061.96	44.03	29.51	-95.17	-913.94	-207.59	3,033.03	2,976.29	56.75	53.449			
7,800.00	7,205.09	7,492.62	7,063.00	44.30	29.81	-92.41	-914.62	-270.91	3,044.58	2,986.86	57.72	52.752			
7,850.00	7,223.14	7,538.39	7,063.00	44.55	30.14	-90.29	-915.00	-316.67	3,054.31	2,995.71	58.60	52.122			
7,900.00	7,237.54	7,585.73	7,063.00	44.80	30.59	-88.65	-915.39	-364.01	3,062.15	3,002.58	59.57	51.408			
7,950.00	7,248.18	7,634.29	7,063.00	45.04	31.15	-87.45	-915.79	-412.57	3,067.98	3,007.32	60.66	50.574			
8,000.00	7,254.98	7,683.70	7,063.00	45.28	31.79	-86.70	-916.21	-461.97	3,071.72	3,009.87	61.85	49.664			
8,050.00	7,257.88	7,733.58	7,063.00	45.51	32.51	-86.37	-916.62	-511.85	3,073.33	3,010.18	63.15	48.669			
8,062.16	7,258.00	7,745.73	7,063.00	45.57	32.69	-86.36	-916.72	-524.01	3,073.39	3,009.91	63.48	48.418			
8,100.00	7,258.00	7,783.57	7,063.00	45.75	33.27	-86.36	-917.04	-561.85	3,073.39	3,008.87	64.52	47.636			
8,200.00	7,258.00	7,883.57	7,063.00	46.30	34.93	-86.36	-917.87	-661.85	3,073.38	3,005.86	67.52	45.520			
8,300.00	7,258.00	7,983.57	7,063.00	46.98	36.73	-86.36	-918.70	-761.84	3,073.37	3,002.57	70.81	43.406			
8,400.00	7,258.00	8,083.57	7,063.00	47.79	38.64	-86.36	-919.53	-861.84	3,073.37	2,999.02	74.34	41.340			
8,500.00	7,258.00	8,183.57	7,063.00	48.75	40.65	-86.36	-920.36	-961.84	3,073.36	2,995.26	78.10	39.351			
8,600.00	7,258.00	8,283.57	7,063.00	49.84	42.74	-86.36	-921.19	-1,061.83	3,073.35	2,991.31	82.05	37.459			
8,700.00	7,258.00	8,383.57	7,063.00	51.09	44.89	-86.36	-922.02	-1,161.83	3,073.35	2,987.19	86.15	35.673			
8,800.00	7,258.00	8,483.57	7,063.00	52.47	47.10	-86.36	-922.86	-1,261.83	3,073.34	2,982.94	90.40	33.997			
8,900.00	7,258.00	8,583.57	7,063.00	53.99	49.37	-86.36	-923.69	-1,361.82	3,073.33	2,978.57	94.77	32.430			
9,000.00	7,258.00	8,683.57	7,063.00	55.62	51.68	-86.36	-924.52	-1,461.82	3,073.33	2,974.08	99.24	30.968			
9,100.00	7,258.00	8,783.57	7,063.00	57.37	54.02	-86.36	-925.35	-1,561.82	3,073.32	2,969.51	103.81	29.606			

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 11-10-5H
<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 11-10-5H	<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: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Warning	
9,200.00	7,258.00	8,883.57	7,063.00	59.21	56.40	-86.36	-926.18	-1,661.81	3,073.31	2,964.86	108.45	28.337		
9,300.00	7,258.00	8,983.57	7,063.00	61.14	58.81	-86.36	-927.01	-1,761.81	3,073.31	2,960.14	113.17	27.156		
9,400.00	7,258.00	9,083.57	7,063.00	63.14	61.25	-86.36	-927.84	-1,861.80	3,073.30	2,955.35	117.95	26.056		
9,500.00	7,258.00	9,183.57	7,063.00	65.21	63.71	-86.36	-928.68	-1,961.80	3,073.29	2,950.51	122.78	25.030		
9,600.00	7,258.00	9,283.57	7,063.00	67.33	66.19	-86.36	-929.51	-2,061.80	3,073.29	2,945.62	127.66	24.073		
9,700.00	7,258.00	9,383.57	7,063.00	69.51	68.69	-86.36	-930.34	-2,161.79	3,073.28	2,940.69	132.59	23.179		
9,800.00	7,258.00	9,483.57	7,063.00	71.73	71.20	-86.36	-931.17	-2,261.79	3,073.27	2,935.72	137.55	22.343		
9,900.00	7,258.00	9,583.57	7,063.00	74.00	73.73	-86.36	-932.00	-2,361.79	3,073.27	2,930.72	142.55	21.559		
10,000.00	7,258.00	9,683.57	7,063.00	76.30	76.27	-86.36	-932.83	-2,461.78	3,073.26	2,925.68	147.58	20.825		
10,100.00	7,258.00	9,783.57	7,063.00	78.63	78.82	-86.36	-933.66	-2,561.78	3,073.25	2,920.62	152.64	20.135		
10,200.00	7,258.00	9,883.57	7,063.00	80.99	81.39	-86.36	-934.50	-2,661.78	3,073.25	2,915.53	157.72	19.486		
10,300.00	7,258.00	9,983.57	7,063.00	83.37	83.96	-86.36	-935.33	-2,761.77	3,073.24	2,910.42	162.82	18.875		
10,400.00	7,258.00	10,083.57	7,063.00	85.78	86.54	-86.36	-936.16	-2,861.77	3,073.23	2,905.29	167.95	18.299		
10,500.00	7,258.00	10,183.57	7,063.00	88.21	89.14	-86.36	-936.99	-2,961.77	3,073.23	2,900.14	173.09	17.755		
10,600.00	7,258.00	10,283.57	7,063.00	90.65	91.73	-86.36	-937.82	-3,061.76	3,073.22	2,894.97	178.25	17.241		
10,700.00	7,258.00	10,383.57	7,063.00	93.12	94.34	-86.36	-938.65	-3,161.76	3,073.21	2,889.79	183.43	16.754		
10,800.00	7,258.00	10,483.57	7,063.00	95.59	96.95	-86.36	-939.48	-3,261.76	3,073.21	2,884.59	188.62	16.293		
10,900.00	7,258.00	10,583.57	7,063.00	98.09	99.57	-86.36	-940.32	-3,361.75	3,073.20	2,879.38	193.82	15.856		
11,000.00	7,258.00	10,683.57	7,063.00	100.59	102.19	-86.36	-941.15	-3,461.75	3,073.19	2,874.15	199.04	15.440		
11,100.00	7,258.00	10,783.57	7,063.00	103.11	104.82	-86.36	-941.98	-3,561.75	3,073.19	2,868.92	204.27	15.045		
11,200.00	7,258.00	10,883.57	7,063.00	105.64	107.45	-86.36	-942.81	-3,661.74	3,073.18	2,863.67	209.51	14.669		
11,300.00	7,258.00	10,983.57	7,063.00	108.18	110.09	-86.36	-943.64	-3,761.74	3,073.17	2,858.42	214.75	14.310		
11,400.00	7,258.00	11,083.57	7,063.00	110.73	112.73	-86.36	-944.47	-3,861.74	3,073.17	2,853.15	220.01	13.968		
11,500.00	7,258.00	11,183.57	7,063.00	113.29	115.38	-86.36	-945.30	-3,961.73	3,073.16	2,847.88	225.28	13.642		
11,600.00	7,258.00	11,283.57	7,063.00	115.85	118.03	-86.36	-946.14	-4,061.73	3,073.15	2,842.60	230.55	13.330		
11,700.00	7,258.00	11,383.57	7,063.00	118.43	120.68	-86.36	-946.97	-4,161.73	3,073.15	2,837.31	235.83	13.031		
11,800.00	7,258.00	11,483.57	7,063.00	121.01	123.33	-86.36	-947.80	-4,261.72	3,073.14	2,832.02	241.12	12.745		
11,900.00	7,258.00	11,583.57	7,063.00	123.59	125.99	-86.36	-948.63	-4,361.72	3,073.13	2,826.72	246.41	12.472		
12,000.00	7,258.00	11,683.57	7,063.00	126.18	128.65	-86.36	-949.46	-4,461.71	3,073.12	2,821.41	251.71	12.209		
12,100.00	7,258.00	11,783.57	7,063.00	128.78	131.31	-86.36	-950.29	-4,561.71	3,073.12	2,816.10	257.02	11.957		
12,200.00	7,258.00	11,883.57	7,063.00	131.39	133.98	-86.36	-951.12	-4,661.71	3,073.11	2,810.78	262.33	11.715		
12,300.00	7,258.00	11,983.57	7,063.00	133.99	136.65	-86.36	-951.96	-4,761.70	3,073.10	2,805.46	267.64	11.482		
12,400.00	7,258.00	12,083.57	7,063.00	136.61	139.32	-86.36	-952.79	-4,861.70	3,073.10	2,800.14	272.96	11.258		
12,500.00	7,258.00	12,183.57	7,063.00	139.22	141.99	-86.36	-953.62	-4,961.70	3,073.09	2,794.80	278.29	11.043		
12,600.00	7,258.00	12,283.57	7,063.00	141.84	144.66	-86.36	-954.45	-5,061.69	3,073.08	2,789.47	283.62	10.835		
12,700.00	7,258.00	12,383.57	7,063.00	144.47	147.33	-86.36	-955.28	-5,161.69	3,073.08	2,784.13	288.95	10.635		
12,800.00	7,258.00	12,483.57	7,063.00	147.10	150.01	-86.36	-956.11	-5,261.69	3,073.07	2,778.79	294.28	10.443		
12,900.00	7,258.00	12,583.57	7,063.00	149.73	152.69	-86.36	-956.94	-5,361.68	3,073.06	2,773.44	299.62	10.256		
13,000.00	7,258.00	12,683.57	7,063.00	152.37	155.37	-86.36	-957.78	-5,461.68	3,073.06	2,768.09	304.97	10.077		
13,100.00	7,258.00	12,783.57	7,063.00	155.01	158.05	-86.36	-958.61	-5,561.68	3,073.05	2,762.74	310.31	9.903		
13,200.00	7,258.00	12,883.57	7,063.00	157.65	160.73	-86.36	-959.44	-5,661.67	3,073.04	2,757.38	315.66	9.735		
13,300.00	7,258.00	12,983.57	7,063.00	160.29	163.42	-86.36	-960.27	-5,761.67	3,073.04	2,752.02	321.01	9.573		
13,400.00	7,258.00	13,083.57	7,063.00	162.94	166.10	-86.36	-961.10	-5,861.67	3,073.03	2,746.66	326.37	9.416		
13,500.00	7,258.00	13,183.57	7,063.00	165.59	168.79	-86.36	-961.93	-5,961.66	3,073.02	2,741.30	331.72	9.264		
13,600.00	7,258.00	13,283.57	7,063.00	168.24	171.48	-86.36	-962.76	-6,061.66	3,073.02	2,735.93	337.08	9.116		
13,700.00	7,258.00	13,383.57	7,063.00	170.89	174.16	-86.36	-963.60	-6,161.66	3,073.01	2,730.57	342.45	8.974		
13,800.00	7,258.00	13,483.57	7,063.00	173.55	176.85	-86.36	-964.43	-6,261.65	3,073.00	2,725.19	347.81	8.835		
13,900.00	7,258.00	13,583.57	7,063.00	176.21	179.54	-86.36	-965.26	-6,361.65	3,073.00	2,719.82	353.17	8.701		
14,000.00	7,258.00	13,683.57	7,063.00	178.87	182.24	-86.36	-966.09	-6,461.65	3,072.99	2,714.45	358.54	8.571		
14,100.00	7,258.00	13,783.57	7,063.00	181.53	184.93	-86.36	-966.92	-6,561.64	3,072.98	2,709.07	363.91	8.444		
14,200.00	7,258.00	13,883.57	7,063.00	184.19	187.62	-86.36	-967.75	-6,661.64	3,072.98	2,703.69	369.28	8.321		
14,300.00	7,258.00	13,983.57	7,063.00	186.86	190.31	-86.36	-968.58	-6,761.64	3,072.97	2,698.31	374.66	8.202		

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 11-10-5H
<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 11-10-5H	<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		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	7,258.00	14,083.57	7,063.00	189.53	193.01	-86.36	-969.42	-6,861.63	3,072.96	2,692.93	380.03	8.086			
14,500.00	7,258.00	14,183.57	7,063.00	192.20	195.70	-86.36	-970.25	-6,961.63	3,072.96	2,687.55	385.41	7.973			
14,600.00	7,258.00	14,283.57	7,063.00	194.87	198.40	-86.36	-971.08	-7,061.63	3,072.95	2,682.16	390.79	7.863			
14,700.00	7,258.00	14,383.57	7,063.00	197.54	201.10	-86.36	-971.91	-7,161.62	3,072.94	2,676.77	396.17	7.757			
14,800.00	7,258.00	14,483.57	7,063.00	200.21	203.79	-86.36	-972.74	-7,261.62	3,072.94	2,671.39	401.55	7.653			
14,900.00	7,258.00	14,583.57	7,063.00	202.89	206.49	-86.36	-973.57	-7,361.61	3,072.93	2,666.00	406.93	7.551			
15,000.00	7,258.00	14,683.57	7,063.00	205.56	209.19	-86.36	-974.40	-7,461.61	3,072.92	2,660.61	412.32	7.453			
15,100.00	7,258.00	14,783.57	7,063.00	208.24	211.89	-86.36	-975.24	-7,561.61	3,072.92	2,655.21	417.70	7.357			
15,200.00	7,258.00	14,883.57	7,063.00	210.92	214.59	-86.36	-976.07	-7,661.60	3,072.91	2,649.82	423.09	7.263			
15,300.00	7,258.00	14,983.57	7,063.00	213.60	217.29	-86.36	-976.90	-7,761.60	3,072.90	2,644.43	428.48	7.172			
15,400.00	7,258.00	15,083.57	7,063.00	216.28	219.99	-86.36	-977.73	-7,861.60	3,072.90	2,639.03	433.87	7.083			
15,500.00	7,258.00	15,183.57	7,063.00	218.96	222.69	-86.36	-978.56	-7,961.59	3,072.89	2,633.63	439.26	6.996			
15,600.00	7,258.00	15,283.57	7,063.00	221.64	225.40	-86.36	-979.39	-8,061.59	3,072.88	2,628.24	444.65	6.911			
15,700.00	7,258.00	15,383.57	7,063.00	224.32	228.10	-86.36	-980.22	-8,161.59	3,072.88	2,622.84	450.04	6.828			
15,800.00	7,258.00	15,483.57	7,063.00	227.01	230.80	-86.36	-981.06	-8,261.58	3,072.87	2,617.44	455.43	6.747			
15,837.79	7,258.00	15,521.36	7,063.00	228.02	231.82	-86.36	-981.37	-8,299.37	3,072.87	2,615.40	457.47	6.717			

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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		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	109.64	-10.93	30.63	32.52							
100.00	100.00	100.00	100.00	0.14	0.14	109.64	-10.93	30.63	32.52	32.23	0.29	113.400				
200.00	200.00	200.00	200.00	0.50	0.50	109.64	-10.93	30.63	32.52	31.52	1.00	32.400				
300.00	300.00	300.00	300.00	0.86	0.86	109.64	-10.93	30.63	32.52	30.80	1.72	18.900				
400.00	400.00	400.00	400.00	1.22	1.22	109.64	-10.93	30.63	32.52	30.08	2.44	13.341				
500.00	500.00	500.00	500.00	1.58	1.58	109.64	-10.93	30.63	32.52	29.37	3.15	10.309	CC, ES			
600.00	600.00	599.35	599.33	1.94	1.92	112.12	-12.61	31.01	33.49	29.63	3.85	8.692				
700.00	700.00	698.47	698.31	2.29	2.25	118.72	-17.63	32.16	36.72	32.18	4.54	8.086	SF			
800.00	800.00	797.11	796.58	2.65	2.59	127.28	-25.93	34.07	42.95	37.72	5.23	8.207				
900.00	900.00	895.05	893.80	3.01	2.95	135.57	-37.44	36.71	52.79	46.87	5.92	8.911				
1,000.00	1,000.00	992.07	989.65	3.37	3.33	142.41	-52.02	40.05	66.46	59.85	6.61	10.058				
1,100.00	1,100.00	1,087.96	1,083.84	3.73	3.73	147.64	-69.53	44.06	83.89	76.61	7.28	11.522				
1,200.00	1,200.00	1,185.17	1,178.89	4.09	4.16	151.47	-89.42	48.62	103.95	95.97	7.98	13.032				
1,300.00	1,300.00	1,282.93	1,274.46	4.45	4.61	154.08	-109.48	53.22	124.38	115.70	8.68	14.330				
1,400.00	1,400.00	1,380.69	1,370.02	4.80	5.06	155.95	-129.54	57.82	144.99	135.60	9.39	15.436				
1,500.00	1,500.00	1,478.45	1,465.59	5.16	5.53	157.35	-149.60	62.42	165.71	155.61	10.11	16.396				
1,600.00	1,600.00	1,576.21	1,561.16	5.52	6.00	158.45	-169.66	67.01	186.51	175.69	10.82	17.233				
1,700.00	1,700.00	1,673.97	1,656.73	5.88	6.47	159.32	-189.73	71.61	207.36	195.82	11.54	17.967				
1,800.00	1,800.00	1,771.73	1,752.29	6.24	6.95	160.03	-209.79	76.21	228.24	215.98	12.26	18.616				
1,900.00	1,900.00	1,869.48	1,847.86	6.60	7.43	160.63	-229.85	80.81	249.16	236.17	12.98	19.193				
2,000.00	2,000.00	1,967.24	1,943.43	6.95	7.92	161.13	-249.91	85.41	270.09	256.39	13.70	19.710				
2,100.00	2,100.00	2,065.00	2,039.00	7.31	8.40	161.56	-269.97	90.01	291.04	276.62	14.43	20.174				
2,200.00	2,200.00	2,162.76	2,134.56	7.67	8.89	161.93	-290.03	94.61	312.01	296.86	15.15	20.594				
2,300.00	2,299.98	2,260.14	2,229.76	8.03	9.38	161.44	-310.02	99.19	334.60	318.73	15.87	21.079				
2,400.00	2,399.84	2,356.69	2,324.15	8.39	9.86	161.82	-329.83	103.73	360.43	343.83	16.59	21.720				
2,500.00	2,499.45	2,452.29	2,417.60	8.75	10.34	162.27	-349.45	108.23	389.48	372.17	17.31	22.504				
2,600.00	2,598.70	2,546.82	2,510.02	9.10	10.81	162.76	-368.85	112.67	421.74	403.73	18.01	23.412				
2,700.00	2,697.47	2,640.17	2,601.28	9.47	11.28	163.27	-388.00	117.06	457.20	438.49	18.71	24.433				
2,800.00	2,795.62	2,732.23	2,691.27	9.84	11.75	163.78	-406.89	121.39	495.83	476.42	19.40	25.553				
2,900.00	2,893.06	2,822.87	2,779.88	10.23	12.21	164.27	-425.50	125.66	537.60	517.51	20.09	26.763				
3,000.00	2,989.64	2,912.00	2,867.01	10.63	12.66	164.74	-443.79	129.85	582.47	561.70	20.76	28.053				
3,100.00	3,085.27	2,999.50	2,952.55	11.05	13.10	165.18	-461.74	133.97	630.39	608.96	21.43	29.416				
3,200.00	3,179.82	3,085.27	3,036.40	11.50	13.53	165.59	-479.34	138.00	681.33	659.24	22.09	30.846				
3,300.00	3,273.17	3,169.20	3,118.45	11.98	13.96	165.96	-496.57	141.95	735.21	712.48	22.74	32.336				
3,400.00	3,365.21	3,251.19	3,198.60	12.49	14.37	166.29	-513.39	145.81	791.99	768.62	23.37	33.882				
3,500.00	3,455.84	3,331.14	3,276.76	13.04	14.78	166.58	-529.80	149.57	851.59	827.59	24.00	35.479				
3,506.72	3,461.88	3,336.44	3,281.94	13.08	14.81	166.59	-530.89	149.82	855.70	831.65	24.04	35.588				
3,600.00	3,545.62	3,409.90	3,353.75	13.62	15.18	167.14	-545.96	153.27	912.79	888.17	24.62	37.069				
3,700.00	3,635.40	3,488.65	3,430.74	14.23	15.58	167.66	-562.12	156.98	974.05	948.80	25.25	38.584				
3,800.00	3,725.17	3,567.41	3,507.73	14.85	15.98	168.11	-578.29	160.68	1,035.35	1,009.48	25.87	40.020				
3,900.00	3,814.95	3,646.16	3,584.72	15.50	16.38	168.52	-594.45	164.38	1,096.68	1,070.18	26.50	41.384				
4,000.00	3,904.73	3,724.92	3,661.71	16.15	16.78	168.88	-610.61	168.09	1,158.05	1,130.92	27.13	42.680				
4,100.00	3,994.50	3,803.67	3,738.69	16.82	17.18	169.21	-626.77	171.79	1,219.45	1,191.68	27.77	43.913				
4,200.00	4,084.28	3,882.42	3,815.68	17.51	17.58	169.50	-642.93	175.50	1,280.86	1,252.45	28.41	45.086				
4,300.00	4,174.06	3,961.18	3,892.67	18.20	17.98	169.77	-659.09	179.20	1,342.30	1,313.25	29.05	46.203				
4,400.00	4,263.83	4,039.93	3,969.66	18.90	18.38	170.02	-675.25	182.91	1,403.75	1,374.05	29.70	47.267				
4,500.00	4,353.61	4,118.68	4,046.65	19.62	18.78	170.24	-691.41	186.61	1,465.22	1,434.87	30.35	48.283				
4,600.00	4,443.38	4,197.44	4,123.64	20.33	19.18	170.45	-707.58	190.32	1,526.70	1,495.70	31.00	49.252				
4,700.00	4,533.16	4,276.19	4,200.62	21.06	19.58	170.64	-723.74	194.02	1,588.19	1,556.54	31.65	50.179				
4,800.00	4,622.94	4,354.94	4,277.61	21.79	19.99	170.81	-739.90	197.73	1,649.69	1,617.39	32.31	51.064				
4,900.00	4,712.71	4,433.70	4,354.60	22.53	20.39	170.98	-756.06	201.43	1,711.20	1,678.24	32.96	51.911				
5,000.00	4,802.49	4,512.45	4,431.59	23.27	20.79	171.13	-772.22	205.13	1,772.72	1,739.10	33.62	52.723				

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 11-10-5H
<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 11-10-5H	<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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	4,892.27	4,591.20	4,508.58	24.02	21.19	171.27	-788.38	208.84	1,834.25	1,799.96	34.29	53.500			
5,200.00	4,982.04	4,669.96	4,585.57	24.77	21.59	171.40	-804.54	212.54	1,895.78	1,860.83	34.95	54.245			
5,300.00	5,071.82	4,748.71	4,662.55	25.53	21.99	171.53	-820.71	216.25	1,957.32	1,921.70	35.61	54.959			
5,400.00	5,161.59	4,827.46	4,739.54	26.29	22.39	171.65	-836.87	219.95	2,018.86	1,982.58	36.28	55.645			
5,500.00	5,251.37	4,906.22	4,816.53	27.05	22.79	171.76	-853.03	223.66	2,080.41	2,043.46	36.95	56.304			
5,600.00	5,341.15	4,984.97	4,893.52	27.81	23.20	171.86	-869.19	227.36	2,141.96	2,104.34	37.62	56.938			
5,700.00	5,430.92	5,063.73	4,970.51	28.58	23.60	171.96	-885.35	231.07	2,203.52	2,165.23	38.29	57.547			
5,800.00	5,520.70	5,142.48	5,047.50	29.35	24.00	172.05	-901.51	234.77	2,265.08	2,226.12	38.96	58.133			
5,900.00	5,610.48	5,221.23	5,124.48	30.12	24.40	172.14	-917.67	238.48	2,326.65	2,287.01	39.64	58.697			
6,000.00	5,700.25	5,299.99	5,201.47	30.90	24.80	172.22	-933.83	242.18	2,388.21	2,347.90	40.31	59.240			
6,100.00	5,790.03	5,378.74	5,278.46	31.67	25.21	172.30	-950.00	245.88	2,449.78	2,408.79	40.99	59.764			
6,200.00	5,879.81	5,457.49	5,355.45	32.45	25.61	172.38	-966.16	249.59	2,511.36	2,469.69	41.67	60.269			
6,300.00	5,969.58	5,536.25	5,432.44	33.23	26.01	172.45	-982.32	253.29	2,572.93	2,530.59	42.35	60.756			
6,400.00	6,059.36	5,615.00	5,509.43	34.01	26.41	172.52	-998.48	257.00	2,634.51	2,591.48	43.03	61.226			
6,500.00	6,149.13	5,693.75	5,586.41	34.79	26.81	172.58	-1,014.64	260.70	2,696.09	2,652.38	43.71	61.680			
6,600.00	6,238.91	5,772.51	5,663.40	35.58	27.21	172.64	-1,030.80	264.41	2,757.68	2,713.28	44.39	62.118			
6,700.00	6,328.69	5,851.26	5,740.39	36.36	27.62	172.70	-1,046.96	268.11	2,819.26	2,774.18	45.08	62.542			
6,800.00	6,418.46	5,930.01	5,817.38	37.15	28.02	172.76	-1,063.13	271.82	2,880.85	2,835.08	45.76	62.951			
6,900.00	6,508.24	6,008.77	5,894.37	37.94	28.42	172.81	-1,079.29	275.52	2,942.44	2,895.99	46.45	63.347			
7,000.00	6,598.02	6,087.52	5,971.36	38.73	28.82	172.87	-1,095.45	279.23	3,004.03	2,956.89	47.14	63.731			
7,100.00	6,687.79	6,166.27	6,048.34	39.52	29.23	172.92	-1,111.61	282.93	3,065.62	3,017.79	47.82	64.102			
7,156.65	6,738.65	6,210.89	6,091.96	39.96	29.45	172.94	-1,120.76	285.03	3,100.51	3,052.30	48.21	64.307			
7,200.00	6,777.55	6,244.93	6,125.24	40.31	29.63	-174.89	-1,127.75	286.63	3,127.32	3,078.81	48.51	64.467			
7,250.00	6,822.15	6,283.79	6,163.23	40.70	29.83	-161.41	-1,135.73	288.46	3,158.37	3,109.53	48.84	64.663			
7,300.00	6,866.16	6,321.93	6,200.52	41.09	30.02	-149.05	-1,143.55	290.25	3,189.37	3,140.21	49.16	64.872			
7,350.00	6,909.24	6,359.07	6,236.81	41.47	30.21	-138.09	-1,151.17	292.00	3,220.11	3,170.64	49.47	65.091			
7,400.00	6,951.05	6,394.90	6,271.85	41.83	30.39	-128.55	-1,158.53	293.68	3,250.40	3,200.64	49.76	65.320			
7,450.00	6,991.29	6,429.18	6,305.35	42.19	30.57	-120.31	-1,165.56	295.30	3,280.08	3,230.04	50.04	65.555			

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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		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	129.78	-25.50	30.63	39.86							
100.00	100.00	100.00	100.00	0.14	0.14	129.78	-25.50	30.63	39.86	39.57	0.29	138.976				
200.00	200.00	200.00	200.00	0.50	0.50	129.78	-25.50	30.63	39.86	38.85	1.00	39.708				
300.00	300.00	300.00	300.00	0.86	0.86	129.78	-25.50	30.63	39.86	38.13	1.72	23.163				
400.00	400.00	400.00	400.00	1.22	1.22	129.78	-25.50	30.63	39.86	37.42	2.44	16.350	CC, ES			
500.00	500.00	498.74	498.72	1.58	1.56	130.85	-27.06	31.30	41.40	38.26	3.14	13.204				
600.00	600.00	597.24	597.08	1.94	1.89	133.61	-31.74	33.31	46.10	42.28	3.82	12.052				
700.00	700.00	695.28	694.75	2.29	2.24	137.13	-39.47	36.63	54.10	49.59	4.52	11.976	SF			
800.00	800.00	792.62	791.40	2.65	2.60	140.59	-50.18	41.24	65.52	60.31	5.21	12.580				
900.00	900.00	889.07	886.70	3.01	2.98	143.56	-63.76	47.08	80.37	74.47	5.89	13.636				
1,000.00	1,000.00	984.41	980.36	3.37	3.39	145.96	-80.07	54.09	98.61	92.03	6.57	15.006				
1,100.00	1,100.00	1,078.45	1,072.13	3.73	3.82	147.85	-98.96	62.21	120.17	112.93	7.24	16.599				
1,200.00	1,200.00	1,171.03	1,161.75	4.09	4.28	149.31	-120.25	71.36	144.97	137.07	7.89	18.365				
1,300.00	1,300.00	1,264.15	1,251.18	4.45	4.77	150.48	-144.11	81.62	172.66	164.10	8.57	20.157				
1,400.00	1,400.00	1,360.02	1,343.09	4.80	5.30	151.36	-169.15	92.38	200.96	191.69	9.28	21.661				
1,500.00	1,500.00	1,455.89	1,435.01	5.16	5.84	152.03	-194.20	103.15	229.30	219.30	9.99	22.944				
1,600.00	1,600.00	1,551.76	1,526.92	5.52	6.39	152.54	-219.24	113.91	257.65	246.94	10.71	24.051				
1,700.00	1,700.00	1,647.64	1,618.84	5.88	6.94	152.96	-244.29	124.68	286.02	274.59	11.43	25.014				
1,800.00	1,800.00	1,743.51	1,710.75	6.24	7.50	153.30	-269.33	135.45	314.40	302.24	12.16	25.859				
1,900.00	1,900.00	1,839.38	1,802.67	6.60	8.06	153.59	-294.37	146.21	342.79	329.91	12.88	26.605				
2,000.00	2,000.00	1,935.25	1,894.58	6.95	8.63	153.83	-319.42	156.98	371.19	357.58	13.61	27.269				
2,100.00	2,100.00	2,031.13	1,986.50	7.31	9.20	154.04	-344.46	167.74	399.59	385.25	14.34	27.864				
2,200.00	2,200.00	2,127.00	2,078.41	7.67	9.77	154.21	-369.51	178.51	428.00	412.93	15.07	28.399				
2,300.00	2,299.98	2,222.40	2,169.87	8.03	10.34	153.42	-394.43	189.22	457.90	442.10	15.80	28.980				
2,400.00	2,399.84	2,316.78	2,260.36	8.39	10.91	153.53	-419.08	199.82	490.79	474.26	16.53	29.698				
2,500.00	2,499.45	2,410.02	2,349.75	8.75	11.47	153.73	-443.44	210.29	526.63	509.39	17.24	30.541				
2,600.00	2,598.70	2,502.00	2,437.94	9.10	12.02	154.00	-467.47	220.62	565.44	547.48	17.95	31.496				
2,700.00	2,697.47	2,592.63	2,524.82	9.47	12.57	154.31	-491.14	230.80	607.18	588.52	18.65	32.549				
2,800.00	2,795.62	2,681.78	2,610.30	9.84	13.11	154.64	-514.43	240.81	651.83	632.49	19.35	33.691				
2,900.00	2,893.06	2,769.35	2,694.25	10.23	13.64	154.98	-537.30	250.64	699.39	679.35	20.03	34.911				
3,000.00	2,989.64	2,855.23	2,776.59	10.63	14.16	155.31	-559.74	260.28	749.81	729.10	20.71	36.203				
3,100.00	3,085.27	2,939.32	2,857.20	11.05	14.67	155.63	-581.70	269.73	803.05	781.67	21.38	37.559				
3,200.00	3,179.82	3,021.51	2,936.00	11.50	15.16	155.92	-603.17	278.96	859.09	837.04	22.04	38.973				
3,300.00	3,273.17	3,101.70	3,012.88	11.98	15.65	156.17	-624.12	287.96	917.86	895.16	22.70	40.441				
3,400.00	3,365.21	3,179.80	3,087.76	12.49	16.12	156.39	-644.52	296.73	979.31	955.97	23.34	41.958				
3,500.00	3,455.84	3,255.71	3,160.54	13.04	16.59	156.56	-664.35	305.26	1,043.38	1,019.40	23.97	43.521				
3,506.72	3,461.88	3,260.73	3,165.35	13.08	16.62	156.57	-665.66	305.82	1,047.77	1,023.76	24.02	43.627				
3,600.00	3,545.62	3,330.35	3,232.09	13.62	17.04	157.30	-683.85	313.64	1,108.95	1,084.35	24.60	45.076				
3,700.00	3,635.40	3,404.98	3,303.65	14.23	17.49	158.01	-703.34	322.02	1,174.64	1,149.41	25.23	46.558				
3,800.00	3,725.17	3,479.61	3,375.20	14.85	17.95	158.64	-722.84	330.40	1,240.43	1,214.57	25.86	47.963				
3,900.00	3,814.95	3,554.24	3,446.75	15.50	18.40	159.21	-742.34	338.78	1,306.29	1,279.79	26.50	49.297				
4,000.00	3,904.73	3,628.88	3,518.30	16.15	18.86	159.73	-761.83	347.16	1,372.22	1,345.08	27.14	50.564				
4,100.00	3,994.50	3,703.51	3,589.85	16.82	19.31	160.20	-781.33	355.54	1,438.21	1,410.43	27.78	51.769				
4,200.00	4,084.28	3,778.14	3,661.40	17.51	19.76	160.62	-800.82	363.92	1,504.25	1,475.82	28.43	52.915				
4,300.00	4,174.06	3,852.77	3,732.95	18.20	20.22	161.02	-820.32	372.30	1,570.33	1,541.25	29.08	54.006				
4,400.00	4,263.83	3,927.40	3,804.51	18.90	20.67	161.38	-839.81	380.68	1,636.45	1,606.72	29.73	55.046				
4,500.00	4,353.61	4,002.04	3,876.06	19.62	21.13	161.71	-859.31	389.06	1,702.60	1,672.22	30.38	56.038				
4,600.00	4,443.38	4,076.67	3,947.61	20.33	21.58	162.02	-878.80	397.44	1,768.79	1,737.75	31.04	56.985				
4,700.00	4,533.16	4,151.30	4,019.16	21.06	22.04	162.31	-898.30	405.82	1,835.00	1,803.30	31.70	57.889				
4,800.00	4,622.94	4,225.93	4,090.71	21.79	22.49	162.57	-917.80	414.20	1,901.24	1,868.88	32.36	58.754				
4,900.00	4,712.71	4,300.56	4,162.26	22.53	22.95	162.82	-937.29	422.59	1,967.50	1,934.47	33.02	59.581				
5,000.00	4,802.49	4,375.20	4,233.82	23.27	23.40	163.06	-956.79	430.97	2,033.77	2,000.09	33.69	60.372				

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 11-10-5H
<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 11-10-5H	<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		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,100.00	4,892.27	4,449.83	4,305.37	24.02	23.86	163.27	-976.28	439.35	2,100.07	2,065.72	34.35	61.130				
5,200.00	4,982.04	4,524.46	4,376.92	24.77	24.32	163.48	-995.78	447.73	2,166.38	2,131.36	35.02	61.857				
5,300.00	5,071.82	4,599.09	4,448.47	25.53	24.77	163.67	-1,015.27	456.11	2,232.71	2,197.02	35.69	62.554				
5,400.00	5,161.59	4,673.72	4,520.02	26.29	25.23	163.85	-1,034.77	464.49	2,299.05	2,262.68	36.36	63.223				
5,500.00	5,251.37	4,748.36	4,591.57	27.05	25.68	164.03	-1,054.26	472.87	2,365.40	2,328.36	37.04	63.865				
5,600.00	5,341.15	4,822.99	4,663.12	27.81	26.14	164.19	-1,073.76	481.25	2,431.76	2,394.05	37.71	64.482				
5,700.00	5,430.92	4,897.62	4,734.68	28.58	26.59	164.34	-1,093.26	489.63	2,498.14	2,459.75	38.39	65.076				
5,800.00	5,520.70	4,972.25	4,806.23	29.35	27.05	164.49	-1,112.75	498.01	2,564.52	2,525.46	39.07	65.646				
5,900.00	5,610.48	5,046.88	4,877.78	30.12	27.51	164.63	-1,132.25	506.39	2,630.91	2,591.17	39.74	66.196				
6,000.00	5,700.25	5,121.52	4,949.33	30.90	27.96	164.76	-1,151.74	514.77	2,697.31	2,656.89	40.42	66.724				
6,100.00	5,790.03	5,196.15	5,020.88	31.67	28.42	164.88	-1,171.24	523.15	2,763.72	2,722.62	41.11	67.234				
6,200.00	5,879.81	5,270.78	5,092.43	32.45	28.87	165.00	-1,190.73	531.53	2,830.14	2,788.35	41.79	67.725				
6,300.00	5,969.58	5,345.41	5,163.99	33.23	29.33	165.12	-1,210.23	539.91	2,896.56	2,854.09	42.47	68.198				
6,400.00	6,059.36	5,420.04	5,235.54	34.01	29.79	165.23	-1,229.72	548.30	2,962.99	2,919.83	43.16	68.655				
6,500.00	6,149.13	5,494.68	5,307.09	34.79	30.24	165.33	-1,249.22	556.68	3,029.42	2,985.58	43.84	69.096				
6,600.00	6,238.91	5,569.31	5,378.64	35.58	30.70	165.43	-1,268.72	565.06	3,095.86	3,051.33	44.53	69.522				
6,700.00	6,328.69	5,643.94	5,450.19	36.36	31.16	165.53	-1,288.21	573.44	3,162.30	3,117.08	45.22	69.933				
6,800.00	6,418.46	5,718.57	5,521.74	37.15	31.61	165.62	-1,307.71	581.82	3,228.75	3,182.84	45.91	70.330				

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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 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	142.61	-40.07	30.63	50.43					
100.00	100.00	100.00	100.00	0.14	0.14	142.61	-40.07	30.63	50.43	50.15	0.29	175.867		
200.00	200.00	200.00	200.00	0.50	0.50	142.61	-40.07	30.63	50.43	49.43	1.00	50.248		
300.00	300.00	300.00	300.00	0.86	0.86	142.61	-40.07	30.63	50.43	48.71	1.72	29.311	CC, ES	
400.00	400.00	398.32	398.30	1.22	1.20	143.19	-41.66	31.18	52.06	49.65	2.42	21.526		
500.00	500.00	496.41	496.25	1.58	1.54	144.76	-46.44	32.81	56.98	53.87	3.11	18.312		
600.00	600.00	594.04	593.52	1.94	1.88	146.83	-54.33	35.51	65.23	61.42	3.81	17.128		
700.00	700.00	690.99	689.77	2.29	2.25	148.98	-65.27	39.26	76.85	72.35	4.50	17.065	SF	
800.00	800.00	787.04	784.70	2.65	2.64	150.93	-79.14	44.00	91.84	86.64	5.19	17.681		
900.00	900.00	882.01	878.01	3.01	3.05	152.58	-95.81	49.71	110.16	104.28	5.88	18.741		
1,000.00	1,000.00	975.69	969.44	3.37	3.49	153.93	-115.11	56.31	131.74	125.19	6.55	20.104		
1,100.00	1,100.00	1,067.93	1,058.76	3.73	3.96	155.02	-136.86	63.76	156.52	149.30	7.22	21.678		
1,200.00	1,200.00	1,158.56	1,145.76	4.09	4.45	155.90	-160.88	71.98	184.40	176.54	7.87	23.434		
1,300.00	1,300.00	1,247.45	1,230.28	4.45	4.97	156.60	-186.95	80.90	215.31	206.80	8.51	25.292		
1,400.00	1,400.00	1,336.62	1,314.18	4.80	5.52	157.18	-215.47	90.67	249.03	239.86	9.17	27.166		
1,500.00	1,500.00	1,430.46	1,402.26	5.16	6.13	157.66	-246.13	101.16	283.49	273.61	9.88	28.687		
1,600.00	1,600.00	1,524.31	1,490.34	5.52	6.74	158.03	-276.80	111.66	317.98	307.38	10.60	29.992		
1,700.00	1,700.00	1,618.16	1,578.41	5.88	7.36	158.33	-307.46	122.15	352.47	341.14	11.33	31.122		
1,800.00	1,800.00	1,712.01	1,666.49	6.24	7.99	158.58	-338.12	132.65	386.97	374.92	12.05	32.109		
1,900.00	1,900.00	1,805.86	1,754.56	6.60	8.63	158.79	-368.78	143.14	421.47	408.69	12.78	32.978		
2,000.00	2,000.00	1,899.71	1,842.64	6.95	9.26	158.96	-399.44	153.64	455.98	442.47	13.51	33.748		
2,100.00	2,100.00	1,993.56	1,930.71	7.31	9.91	159.11	-430.10	164.13	490.49	476.25	14.24	34.435		
2,200.00	2,200.00	2,087.40	2,018.79	7.67	10.55	159.24	-460.76	174.63	525.01	510.03	14.98	35.052		
2,300.00	2,299.98	2,180.67	2,106.31	8.03	11.19	158.37	-491.23	185.05	561.04	545.33	15.71	35.707		
2,400.00	2,399.84	2,272.68	2,192.67	8.39	11.82	158.36	-521.29	195.34	600.09	583.65	16.44	36.499		
2,500.00	2,499.45	2,363.33	2,277.74	8.75	12.45	158.40	-550.91	205.48	642.13	624.97	17.16	37.419		
2,600.00	2,598.70	2,452.51	2,361.44	9.10	13.06	158.48	-580.05	215.45	687.11	669.24	17.87	38.451		
2,700.00	2,697.47	2,540.12	2,443.65	9.47	13.67	158.59	-608.67	225.25	735.01	716.44	18.57	39.584		
2,800.00	2,795.62	2,626.03	2,524.28	9.84	14.27	158.71	-636.74	234.86	785.78	766.53	19.26	40.805		
2,900.00	2,893.06	2,710.16	2,603.23	10.23	14.85	158.83	-664.22	244.27	839.39	819.45	19.93	42.107		
3,000.00	2,989.64	2,792.39	2,680.41	10.63	15.42	158.94	-691.09	253.46	895.77	875.17	20.60	43.480		
3,100.00	3,085.27	2,872.62	2,755.71	11.05	15.98	159.04	-717.30	262.43	954.89	933.63	21.26	44.919		
3,200.00	3,179.82	2,950.77	2,829.04	11.50	16.52	159.12	-742.83	271.17	1,016.67	994.77	21.90	46.416		
3,300.00	3,273.17	3,026.73	2,900.33	11.98	17.05	159.17	-767.65	279.67	1,081.06	1,058.52	22.54	47.969		
3,400.00	3,365.21	3,100.40	2,969.48	12.49	17.57	159.18	-791.72	287.91	1,147.99	1,124.83	23.16	49.572		
3,500.00	3,455.84	3,171.71	3,036.40	13.04	18.06	159.15	-815.02	295.88	1,217.39	1,193.63	23.77	51.223		
3,506.72	3,461.88	3,176.42	3,040.81	13.08	18.10	159.15	-816.55	296.41	1,222.14	1,198.34	23.81	51.335		
3,600.00	3,545.62	3,241.65	3,102.03	13.62	18.55	159.73	-837.87	303.70	1,288.19	1,263.82	24.37	52.866		
3,700.00	3,635.40	3,311.58	3,167.66	14.23	19.04	160.30	-860.71	311.52	1,359.07	1,334.10	24.97	54.433		
3,800.00	3,725.17	3,381.51	3,233.29	14.85	19.53	160.81	-883.56	319.34	1,430.00	1,404.43	25.57	55.920		
3,900.00	3,814.95	3,451.44	3,298.92	15.50	20.02	161.27	-906.41	327.16	1,500.99	1,474.81	26.18	57.331		
4,000.00	3,904.73	3,521.37	3,364.55	16.15	20.50	161.69	-929.25	334.98	1,572.02	1,545.23	26.79	58.672		
4,100.00	3,994.50	3,591.30	3,430.18	16.82	20.99	162.08	-952.10	342.80	1,643.09	1,615.68	27.41	59.948		
4,200.00	4,084.28	3,661.23	3,495.81	17.51	21.48	162.43	-974.95	350.62	1,714.20	1,686.17	28.03	61.161		
4,300.00	4,174.06	3,731.16	3,561.43	18.20	21.97	162.76	-997.79	358.44	1,785.33	1,756.69	28.65	62.317		
4,400.00	4,263.83	3,801.09	3,627.06	18.90	22.46	163.06	-1,020.64	366.26	1,856.50	1,827.22	29.27	63.419		
4,500.00	4,353.61	3,871.02	3,692.69	19.62	22.95	163.34	-1,043.49	374.08	1,927.68	1,897.78	29.90	64.470		
4,600.00	4,443.38	3,940.95	3,758.32	20.33	23.44	163.60	-1,066.34	381.90	1,998.89	1,968.36	30.53	65.473		
4,700.00	4,533.16	4,010.89	3,823.95	21.06	23.93	163.84	-1,089.18	389.72	2,070.12	2,038.95	31.16	66.432		
4,800.00	4,622.94	4,080.82	3,889.58	21.79	24.42	164.07	-1,112.03	397.54	2,141.36	2,109.56	31.80	67.348		
4,900.00	4,712.71	4,150.75	3,955.21	22.53	24.91	164.28	-1,134.88	405.36	2,212.62	2,180.19	32.43	68.225		
5,000.00	4,802.49	4,220.68	4,020.84	23.27	25.39	164.48	-1,157.72	413.18	2,283.89	2,250.82	33.07	69.064		

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 11-10-5H
<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 11-10-5H	<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		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			
5,100.00	4,892.27	4,290.61	4,086.46	24.02	25.88	164.66	-1,180.57	421.00	2,355.18	2,321.47	33.71	69.868			
5,200.00	4,982.04	4,360.54	4,152.09	24.77	26.37	164.84	-1,203.42	428.82	2,426.47	2,392.12	34.35	70.638			
5,300.00	5,071.82	4,430.47	4,217.72	25.53	26.86	165.00	-1,226.26	436.64	2,497.78	2,462.79	34.99	71.377			
5,400.00	5,161.59	4,500.40	4,283.35	26.29	27.35	165.16	-1,249.11	444.46	2,569.10	2,533.46	35.64	72.086			
5,500.00	5,251.37	4,570.33	4,348.98	27.05	27.84	165.31	-1,271.96	452.28	2,640.42	2,604.14	36.29	72.767			
5,600.00	5,341.15	4,640.26	4,414.61	27.81	28.33	165.45	-1,294.80	460.10	2,711.76	2,674.82	36.93	73.421			
5,700.00	5,430.92	4,710.19	4,480.24	28.58	28.82	165.58	-1,317.65	467.92	2,783.10	2,745.52	37.58	74.050			
5,800.00	5,520.70	4,780.12	4,545.87	29.35	29.31	165.71	-1,340.50	475.74	2,854.45	2,816.21	38.24	74.655			
5,900.00	5,610.48	4,850.05	4,611.50	30.12	29.80	165.83	-1,363.35	483.56	2,925.80	2,886.92	38.89	75.237			
6,000.00	5,700.25	4,919.98	4,677.12	30.90	30.29	165.94	-1,386.19	491.38	2,997.17	2,957.62	39.54	75.797			
6,100.00	5,790.03	4,989.91	4,742.75	31.67	30.78	166.05	-1,409.04	499.20	3,068.53	3,028.34	40.20	76.336			
6,200.00	5,879.81	5,059.84	4,808.38	32.45	31.27	166.16	-1,431.89	507.02	3,139.91	3,099.05	40.85	76.856			
6,300.00	5,969.58	5,129.77	4,874.01	33.23	31.76	166.26	-1,454.73	514.84	3,211.28	3,169.77	41.51	77.357			

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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		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	180.00	-18.22	0.00	18.22					
100.00	100.00	100.00	100.00	0.14	0.14	180.00	-18.22	0.00	18.22	17.93	0.29	63.530		
200.00	200.00	200.00	200.00	0.50	0.50	180.00	-18.22	0.00	18.22	17.22	1.00	18.151		
300.00	300.00	300.00	300.00	0.86	0.86	180.00	-18.22	0.00	18.22	16.50	1.72	10.588		
400.00	400.00	400.00	400.00	1.22	1.22	180.00	-18.22	0.00	18.22	15.78	2.44	7.474		
500.00	500.00	500.00	500.00	1.58	1.58	180.00	-18.22	0.00	18.22	15.06	3.15	5.775		
600.00	600.00	600.00	600.00	1.94	1.94	180.00	-18.22	0.00	18.22	14.35	3.87	4.706		
700.00	700.00	700.00	700.00	2.29	2.29	180.00	-18.22	0.00	18.22	13.63	4.59	3.971		
800.00	800.00	800.00	800.00	2.65	2.65	180.00	-18.22	0.00	18.22	12.91	5.31	3.434		
900.00	900.00	900.00	900.00	3.01	3.01	180.00	-18.22	0.00	18.22	12.20	6.02	3.025		
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	180.00	-18.22	0.00	18.22	11.48	6.74	2.703		
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	180.00	-18.22	0.00	18.22	10.76	7.46	2.443		
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	180.00	-18.22	0.00	18.22	10.05	8.17	2.229		
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	180.00	-18.22	0.00	18.22	9.33	8.89	2.049		
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	180.00	-18.22	0.00	18.22	8.61	9.61	1.896		
1,500.00	1,500.00	1,500.00	1,500.00	5.16	5.16	180.00	-18.22	0.00	18.22	7.90	10.32	1.765		
1,600.00	1,600.00	1,600.00	1,600.00	5.52	5.52	180.00	-18.22	0.00	18.22	7.18	11.04	1.650		
1,700.00	1,700.00	1,700.00	1,700.00	5.88	5.88	180.00	-18.22	0.00	18.22	6.46	11.76	1.550		
1,800.00	1,800.00	1,800.00	1,800.00	6.24	6.24	180.00	-18.22	0.00	18.22	5.74	12.47	1.460	Level 3	
1,900.00	1,900.00	1,900.00	1,900.00	6.60	6.60	180.00	-18.22	0.00	18.22	5.03	13.19	1.381	Level 3	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	180.00	-18.22	0.00	18.22	4.31	13.91	1.310	Level 3	
2,100.00	2,100.00	2,100.00	2,100.00	7.31	7.31	180.00	-18.22	0.00	18.22	3.59	14.63	1.246	Level 3	
2,200.00	2,200.00	2,200.00	2,200.00	7.67	7.67	180.00	-18.22	0.00	18.22	2.88	15.34	1.187	Level 3, CC, ES	
2,300.00	2,299.98	2,299.98	2,299.98	8.03	8.03	179.30	-18.22	0.00	19.96	3.90	16.06	1.243	Level 3	
2,400.00	2,399.84	2,400.68	2,400.66	8.39	8.39	179.41	-16.45	0.02	23.44	6.67	16.77	1.398	Level 3	
2,500.00	2,499.45	2,501.51	2,501.34	8.75	8.75	179.50	-11.14	0.08	26.89	9.43	17.46	1.540		
2,600.00	2,598.70	2,602.46	2,601.90	9.10	9.11	179.58	-2.27	0.19	30.32	12.18	18.14	1.672		
2,700.00	2,697.47	2,703.53	2,702.20	9.47	9.47	179.65	10.15	0.34	33.70	14.91	18.79	1.794		
2,800.00	2,795.62	2,804.72	2,802.12	9.84	9.84	179.72	26.12	0.53	37.05	17.62	19.42	1.907		
2,900.00	2,893.06	2,906.04	2,901.53	10.23	10.22	179.79	45.64	0.76	40.35	20.31	20.04	2.014		
3,000.00	2,989.64	3,007.47	3,000.30	10.63	10.61	179.85	68.69	1.04	43.60	22.97	20.63	2.113		
3,100.00	3,085.27	3,109.02	3,098.31	11.05	11.02	179.91	95.25	1.36	46.81	25.60	21.21	2.207		
3,200.00	3,179.82	3,210.69	3,195.43	11.50	11.45	179.96	125.31	1.72	49.95	28.18	21.77	2.294		
3,300.00	3,273.17	3,312.47	3,291.53	11.98	11.91	-179.98	158.83	2.12	53.04	30.72	22.31	2.377		
3,400.00	3,365.21	3,414.37	3,386.48	12.49	12.40	-179.93	195.78	2.56	56.06	33.22	22.84	2.454		
3,500.00	3,455.84	3,514.49	3,478.98	13.04	12.90	-179.88	234.10	3.02	60.42	36.85	23.57	2.564		
3,506.72	3,461.88	3,521.20	3,485.17	13.08	12.94	-179.88	236.67	3.05	60.83	37.22	23.62	2.576		
3,600.00	3,545.62	3,614.29	3,571.17	13.62	13.43	-179.84	272.32	3.47	66.72	42.39	24.33	2.742		
3,700.00	3,635.40	3,714.09	3,663.36	14.23	13.97	-179.81	310.53	3.93	73.03	47.93	25.10	2.910		
3,800.00	3,725.17	3,813.89	3,755.56	14.85	14.53	-179.78	348.74	4.39	79.35	53.47	25.88	3.066		
3,900.00	3,814.95	3,913.69	3,847.75	15.50	15.11	-179.76	386.96	4.85	85.66	58.99	26.67	3.212		
4,000.00	3,904.73	4,013.49	3,939.94	16.15	15.69	-179.74	425.17	5.30	91.97	64.50	27.47	3.348		
4,100.00	3,994.50	4,113.30	4,032.14	16.82	16.29	-179.73	463.39	5.76	98.28	70.01	28.28	3.476		
4,200.00	4,084.28	4,213.10	4,124.33	17.51	16.90	-179.71	501.60	6.22	104.60	75.51	29.09	3.596		
4,300.00	4,174.06	4,312.90	4,216.52	18.20	17.52	-179.70	539.82	6.67	110.91	81.00	29.91	3.708		
4,400.00	4,263.83	4,412.70	4,308.72	18.90	18.14	-179.69	578.03	7.13	117.22	86.49	30.73	3.814		
4,500.00	4,353.61	4,512.50	4,400.91	19.62	18.77	-179.68	616.24	7.59	123.53	91.97	31.57	3.914		
4,600.00	4,443.38	4,612.30	4,493.10	20.33	19.41	-179.67	654.46	8.04	129.84	97.44	32.40	4.007		
4,700.00	4,533.16	4,712.10	4,585.30	21.06	20.06	-179.66	692.67	8.50	136.16	102.91	33.24	4.096		
4,800.00	4,622.94	4,811.90	4,677.49	21.79	20.71	-179.65	730.89	8.96	142.47	108.38	34.09	4.180		
4,900.00	4,712.71	4,911.70	4,769.68	22.53	21.36	-179.65	769.10	9.41	148.78	113.85	34.94	4.259		
5,000.00	4,802.49	5,011.50	4,861.88	23.27	22.02	-179.64	807.32	9.87	155.09	119.31	35.79	4.334		

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 11-10-5H
<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 11-10-5H	<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											Rule Assigned:		Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,100.00	4,892.27	5,111.30	4,954.07	24.02	22.69	-179.63	845.53	10.33	161.41	124.76	36.64	4.405			
5,200.00	4,982.04	5,211.10	5,046.26	24.77	23.35	-179.63	883.74	10.79	167.72	130.22	37.50	4.472			
5,300.00	5,071.82	5,310.90	5,138.46	25.53	24.02	-179.62	921.96	11.24	174.03	135.67	38.36	4.536			
5,400.00	5,161.59	5,410.70	5,230.65	26.29	24.70	-179.62	960.17	11.70	180.34	141.11	39.23	4.597			
5,500.00	5,251.37	5,510.50	5,322.85	27.05	25.37	-179.61	998.39	12.16	186.65	146.56	40.10	4.655			
5,600.00	5,341.15	5,610.30	5,415.04	27.81	26.05	-179.61	1,036.60	12.61	192.97	152.00	40.97	4.710			
5,700.00	5,430.92	5,710.10	5,507.23	28.58	26.73	-179.60	1,074.81	13.07	199.28	157.44	41.84	4.763			
5,800.00	5,520.70	5,809.91	5,599.43	29.35	27.42	-179.60	1,113.03	13.53	205.59	162.88	42.71	4.813			
5,900.00	5,610.48	5,909.71	5,691.62	30.12	28.10	-179.60	1,151.24	13.98	211.90	168.31	43.59	4.861			
6,000.00	5,700.25	6,009.51	5,783.81	30.90	28.79	-179.59	1,189.46	14.44	218.22	173.75	44.47	4.907			
6,100.00	5,790.03	6,109.31	5,876.01	31.67	29.48	-179.59	1,227.67	14.90	224.53	179.18	45.35	4.951			
6,200.00	5,879.81	6,209.11	5,968.20	32.45	30.17	-179.59	1,265.89	15.36	230.84	184.61	46.23	4.993			
6,300.00	5,969.58	6,308.91	6,060.39	33.23	30.87	-179.59	1,304.10	15.81	237.15	190.04	47.11	5.034			
6,400.00	6,059.36	6,408.71	6,152.59	34.01	31.56	-179.58	1,342.31	16.27	243.46	195.47	48.00	5.072			
6,500.00	6,149.13	6,508.51	6,244.78	34.79	32.26	-179.58	1,380.53	16.73	249.78	200.89	48.88	5.110			
6,600.00	6,238.91	6,608.31	6,336.97	35.58	32.95	-179.58	1,418.74	17.18	256.09	206.32	49.77	5.145			
6,700.00	6,328.69	6,708.11	6,429.17	36.36	33.65	-179.58	1,456.96	17.64	262.40	211.74	50.66	5.180			
6,800.00	6,418.46	6,807.91	6,521.36	37.15	34.35	-179.57	1,495.17	18.10	268.71	217.16	51.55	5.213			
6,900.00	6,508.24	6,905.49	6,611.14	37.94	35.03	-177.89	1,532.32	18.56	275.02	222.86	52.44	5.243			
7,000.00	6,598.02	6,997.72	6,693.80	38.73	35.66	-173.32	1,566.38	-11.79	281.33	228.30	53.33	5.275			
7,100.00	6,687.79	7,080.82	6,764.63	39.52	36.19	-167.13	1,595.46	-43.90	287.64	233.74	54.22	5.307			
7,156.65	6,738.65	7,123.15	6,798.88	39.96	36.45	-163.41	1,609.48	-64.43	310.44	253.45	56.99	5.447			
7,200.00	6,777.55	7,150.00	6,819.85	40.31	36.61	-151.20	1,618.04	-78.84	321.36	263.78	57.58	5.581			
7,250.00	6,822.15	7,188.70	6,848.92	40.70	36.84	-137.24	1,629.90	-101.45	334.81	276.34	58.46	5.727			
7,300.00	6,866.16	7,222.87	6,873.38	41.09	37.03	-124.97	1,639.85	-123.14	348.87	290.00	58.87	5.926			
7,350.00	6,909.24	7,256.51	6,896.25	41.47	37.22	-114.30	1,649.13	-145.98	363.18	304.16	59.01	6.154			
7,400.00	6,951.05	7,289.69	6,917.56	41.83	37.41	-105.19	1,657.75	-169.90	377.42	318.51	58.91	6.407			
7,450.00	6,991.29	7,322.47	6,937.33	42.19	37.58	-97.52	1,665.73	-194.79	391.35	332.75	58.60	6.678			
7,500.00	7,029.64	7,350.00	6,952.90	42.53	37.73	-91.25	1,671.99	-216.62	404.79	347.10	57.69	7.016			
7,550.00	7,065.81	7,387.04	6,972.29	42.86	37.92	-85.69	1,679.77	-247.20	417.44	359.94	57.51	7.259			
7,600.00	7,099.54	7,418.92	6,987.48	43.17	38.09	-81.19	1,685.83	-274.56	429.29	372.49	56.80	7.557			
7,650.00	7,130.55	7,450.00	7,000.93	43.47	38.25	-77.45	1,691.16	-302.06	440.16	384.17	55.99	7.862			
7,700.00	7,158.62	7,482.06	7,013.33	43.76	38.42	-74.33	1,696.05	-331.21	449.95	394.69	55.26	8.143			
7,750.00	7,183.53	7,513.38	7,023.98	44.03	38.58	-71.77	1,700.21	-360.36	458.58	404.09	54.49	8.416			
7,800.00	7,205.09	7,550.00	7,034.55	44.30	38.77	-69.64	1,704.29	-389.19	466.02	411.82	54.20	8.598			
7,850.00	7,223.14	7,575.65	7,040.71	44.55	38.91	-68.08	1,706.63	-419.97	472.08	418.97	53.11	8.889			
7,900.00	7,237.54	7,600.00	7,045.61	44.80	39.04	-66.88	1,708.45	-443.75	476.93	424.86	52.07	9.159			
7,950.00	7,248.18	7,637.59	7,051.34	45.04	39.24	-65.97	1,710.51	-480.84	480.27	428.13	52.13	9.212			
8,000.00	7,254.98	7,668.49	7,054.35	45.28	39.42	-65.45	1,711.49	-511.57	482.29	430.44	51.85	9.301			
8,050.00	7,257.88	7,700.00	7,055.85	45.51	39.60	-65.26	1,711.84	-543.04	482.91	431.15	51.76	9.329			
8,062.16	7,258.00	7,706.89	7,055.96	45.57	39.64	-65.26	1,711.82	-549.92	482.85	431.13	51.72	9.335			
8,073.16	7,258.00	7,713.69	7,056.00	45.62	39.68	-65.27	1,711.78	-556.73	482.80	431.08	51.72	9.334			
8,100.00	7,258.00	7,740.52	7,056.00	45.75	39.84	-65.27	1,711.55	-583.55	482.81	430.49	52.32	9.228			
8,200.00	7,258.00	7,840.52	7,056.00	46.30	40.53	-65.27	1,710.68	-683.55	482.83	428.09	54.74	8.821			
8,300.00	7,258.00	7,940.52	7,056.00	46.98	41.39	-65.27	1,709.82	-783.55	482.86	425.38	57.48	8.400			
8,400.00	7,258.00	8,040.52	7,056.00	47.79	42.41	-65.27	1,708.95	-883.54	482.88	422.37	60.51	7.980			
8,500.00	7,258.00	8,140.52	7,056.00	48.75	43.61	-65.27	1,708.09	-983.54	482.91	419.12	63.79	7.570			
8,600.00	7,258.00	8,240.52	7,056.00	49.84	44.97	-65.27	1,707.22	-1,083.54	482.93	415.66	67.28	7.178			
8,700.00	7,258.00	8,340.52	7,056.00	51.09	46.48	-65.28	1,706.35	-1,183.53	482.96	412.02	70.94	6.808			
8,800.00	7,258.00	8,440.52	7,056.00	52.47	48.13	-65.28	1,705.49	-1,283.53	482.98	408.23	74.76	6.461			
8,900.00	7,258.00	8,540.52	7,056.00	53.99	49.90	-65.28	1,704.62	-1,383.52	483.01	404.30	78.71	6.137			
9,000.00	7,258.00	8,640.52	7,056.00	55.62	51.77	-65.28	1,703.76	-1,483.52	483.03	400.27	82.77	5.836			

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 11-10-5H
<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 11-10-5H	<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				
9,100.00	7,258.00	8,740.52	7,056.00	57.37	53.73	-65.28	1,702.89	-1,583.52	483.06	396.13	86.93	5.557				
9,200.00	7,258.00	8,840.52	7,056.00	59.21	55.77	-65.28	1,702.03	-1,683.51	483.08	391.92	91.17	5.299				
9,300.00	7,258.00	8,940.52	7,056.00	61.14	57.88	-65.28	1,701.16	-1,783.51	483.11	387.63	95.48	5.060				
9,400.00	7,258.00	9,040.52	7,056.00	63.14	60.05	-65.29	1,700.29	-1,883.51	483.13	383.28	99.85	4.838				
9,500.00	7,258.00	9,140.52	7,056.00	65.21	62.26	-65.29	1,699.43	-1,983.50	483.16	378.88	104.28	4.633				
9,600.00	7,258.00	9,240.52	7,056.00	67.33	64.53	-65.29	1,698.56	-2,083.50	483.18	374.42	108.76	4.443				
9,700.00	7,258.00	9,340.52	7,056.00	69.51	66.83	-65.29	1,697.70	-2,183.49	483.21	369.93	113.28	4.266				
9,800.00	7,258.00	9,440.52	7,056.00	71.73	69.16	-65.29	1,696.83	-2,283.49	483.24	365.40	117.84	4.101				
9,900.00	7,258.00	9,540.52	7,056.00	74.00	71.53	-65.29	1,695.96	-2,383.49	483.26	360.83	122.43	3.947				
10,000.00	7,258.00	9,640.52	7,056.00	76.30	73.92	-65.29	1,695.10	-2,483.48	483.29	356.23	127.05	3.804				
10,100.00	7,258.00	9,740.52	7,056.00	78.63	76.34	-65.29	1,694.23	-2,583.48	483.31	351.61	131.70	3.670				
10,200.00	7,258.00	9,840.52	7,056.00	80.99	78.78	-65.30	1,693.37	-2,683.48	483.34	346.96	136.37	3.544				
10,300.00	7,258.00	9,940.52	7,056.00	83.37	81.23	-65.30	1,692.50	-2,783.47	483.36	342.30	141.06	3.427				
10,400.00	7,258.00	10,040.52	7,056.00	85.78	83.71	-65.30	1,691.64	-2,883.47	483.39	337.61	145.78	3.316				
10,500.00	7,258.00	10,140.52	7,056.00	88.21	86.20	-65.30	1,690.77	-2,983.46	483.41	332.90	150.51	3.212				
10,600.00	7,258.00	10,240.52	7,056.00	90.65	88.71	-65.30	1,689.90	-3,083.46	483.44	328.18	155.25	3.114				
10,700.00	7,258.00	10,340.52	7,056.00	93.12	91.22	-65.30	1,689.04	-3,183.46	483.46	323.45	160.01	3.021				
10,800.00	7,258.00	10,440.52	7,056.00	95.59	93.76	-65.30	1,688.17	-3,283.45	483.49	318.70	164.79	2.934				
10,900.00	7,258.00	10,540.52	7,056.00	98.09	96.30	-65.31	1,687.31	-3,383.45	483.51	313.93	169.58	2.851				
11,000.00	7,258.00	10,640.52	7,056.00	100.59	98.85	-65.31	1,686.44	-3,483.45	483.54	309.16	174.37	2.773				
11,100.00	7,258.00	10,740.52	7,056.00	103.11	101.41	-65.31	1,685.58	-3,583.44	483.56	304.38	179.18	2.699				
11,200.00	7,258.00	10,840.52	7,056.00	105.64	103.98	-65.31	1,684.71	-3,683.44	483.59	299.59	184.00	2.628				
11,300.00	7,258.00	10,940.52	7,056.00	108.18	106.56	-65.31	1,683.84	-3,783.43	483.61	294.78	188.83	2.561				
11,400.00	7,258.00	11,040.52	7,056.00	110.73	109.14	-65.31	1,682.98	-3,883.43	483.64	289.97	193.66	2.497				
11,500.00	7,258.00	11,140.52	7,056.00	113.29	111.74	-65.31	1,682.11	-3,983.43	483.66	285.16	198.51	2.437				
11,600.00	7,258.00	11,240.52	7,056.00	115.85	114.33	-65.32	1,681.25	-4,083.42	483.69	280.33	203.35	2.379				
11,700.00	7,258.00	11,340.52	7,056.00	118.43	116.94	-65.32	1,680.38	-4,183.42	483.71	275.50	208.21	2.323				
11,800.00	7,258.00	11,440.52	7,056.00	121.01	119.55	-65.32	1,679.51	-4,283.42	483.74	270.66	213.07	2.270				
11,900.00	7,258.00	11,540.52	7,056.00	123.59	122.16	-65.32	1,678.65	-4,383.41	483.76	265.82	217.94	2.220				
12,000.00	7,258.00	11,640.52	7,056.00	126.18	124.78	-65.32	1,677.78	-4,483.41	483.79	260.97	222.81	2.171				
12,100.00	7,258.00	11,740.52	7,056.00	128.78	127.40	-65.32	1,676.92	-4,583.40	483.81	256.12	227.69	2.125				
12,200.00	7,258.00	11,840.52	7,056.00	131.39	130.03	-65.32	1,676.05	-4,683.40	483.84	251.26	232.58	2.080				
12,300.00	7,258.00	11,940.52	7,056.00	133.99	132.66	-65.32	1,675.19	-4,783.40	483.86	246.40	237.46	2.038				
12,400.00	7,258.00	12,040.52	7,056.00	136.61	135.30	-65.33	1,674.32	-4,883.39	483.89	241.53	242.36	1.997				
12,500.00	7,258.00	12,140.52	7,056.00	139.22	137.94	-65.33	1,673.45	-4,983.39	483.91	236.66	247.25	1.957				
12,600.00	7,258.00	12,240.52	7,056.00	141.84	140.58	-65.33	1,672.59	-5,083.39	483.94	231.79	252.15	1.919				
12,700.00	7,258.00	12,340.52	7,056.00	144.47	143.22	-65.33	1,671.72	-5,183.38	483.96	226.91	257.05	1.883				
12,800.00	7,258.00	12,440.52	7,056.00	147.10	145.87	-65.33	1,670.86	-5,283.38	483.99	222.03	261.96	1.848				
12,900.00	7,258.00	12,540.52	7,056.00	149.73	148.52	-65.33	1,669.99	-5,383.37	484.01	217.14	266.87	1.814				
13,000.00	7,258.00	12,640.52	7,056.00	152.37	151.17	-65.33	1,669.13	-5,483.37	484.04	212.26	271.78	1.781				
13,100.00	7,258.00	12,740.52	7,056.00	155.01	153.83	-65.34	1,668.26	-5,583.37	484.06	207.37	276.70	1.749				
13,200.00	7,258.00	12,840.52	7,056.00	157.65	156.49	-65.34	1,667.39	-5,683.36	484.09	202.47	281.61	1.719				
13,300.00	7,258.00	12,940.52	7,056.00	160.29	159.15	-65.34	1,666.53	-5,783.36	484.11	197.58	286.53	1.690				
13,400.00	7,258.00	13,040.52	7,056.00	162.94	161.81	-65.34	1,665.66	-5,883.36	484.14	192.68	291.46	1.661				
13,500.00	7,258.00	13,140.52	7,056.00	165.59	164.47	-65.34	1,664.80	-5,983.35	484.16	187.78	296.38	1.634				
13,600.00	7,258.00	13,240.52	7,056.00	168.24	167.14	-65.34	1,663.93	-6,083.35	484.19	182.88	301.31	1.607				
13,700.00	7,258.00	13,340.52	7,056.00	170.89	169.81	-65.34	1,663.07	-6,183.34	484.21	177.98	306.24	1.581				
13,800.00	7,258.00	13,440.52	7,056.00	173.55	172.48	-65.35	1,662.20	-6,283.34	484.24	173.07	311.17	1.556				
13,900.00	7,258.00	13,540.52	7,056.00	176.21	175.15	-65.35	1,661.33	-6,383.34	484.26	168.16	316.10	1.532				
14,000.00	7,258.00	13,640.52	7,056.00	178.87	177.82	-65.35	1,660.47	-6,483.33	484.29	163.25	321.04	1.509				
14,100.00	7,258.00	13,740.52	7,056.00	181.53	180.50	-65.35	1,659.60	-6,583.33	484.31	158.34	325.97	1.486 Level 3				
14,200.00	7,258.00	13,840.52	7,056.00	184.19	183.17	-65.35	1,658.74	-6,683.33	484.34	153.43	330.91	1.464 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 11-10-5H
<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 11-10-5H	<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		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	7,258.00	13,940.52	7,056.00	186.86	185.85	-65.35	1,657.87	-6,783.32	484.36	148.51	335.85	1.442	Level 3	
14,400.00	7,258.00	14,040.52	7,056.00	189.53	188.53	-65.35	1,657.00	-6,883.32	484.39	143.59	340.79	1.421	Level 3	
14,500.00	7,258.00	14,140.52	7,056.00	192.20	191.21	-65.35	1,656.14	-6,983.31	484.41	138.68	345.74	1.401	Level 3	
14,600.00	7,258.00	14,240.52	7,056.00	194.87	193.89	-65.36	1,655.27	-7,083.31	484.44	133.76	350.68	1.381	Level 3	
14,700.00	7,258.00	14,340.52	7,056.00	197.54	196.57	-65.36	1,654.41	-7,183.31	484.46	128.84	355.63	1.362	Level 3	
14,800.00	7,258.00	14,440.52	7,056.00	200.21	199.25	-65.36	1,653.54	-7,283.30	484.49	123.91	360.57	1.344	Level 3	
14,900.00	7,258.00	14,540.52	7,056.00	202.89	201.94	-65.36	1,652.68	-7,383.30	484.51	118.99	365.52	1.326	Level 3	
15,000.00	7,258.00	14,640.52	7,056.00	205.56	204.62	-65.36	1,651.81	-7,483.30	484.54	114.07	370.47	1.308	Level 3	
15,100.00	7,258.00	14,740.52	7,056.00	208.24	207.31	-65.36	1,650.94	-7,583.29	484.57	109.14	375.42	1.291	Level 3	
15,200.00	7,258.00	14,840.52	7,056.00	210.92	209.99	-65.36	1,650.08	-7,683.29	484.59	104.21	380.38	1.274	Level 3	
15,300.00	7,258.00	14,940.52	7,056.00	213.60	212.68	-65.37	1,649.21	-7,783.28	484.62	99.29	385.33	1.258	Level 3	
15,400.00	7,258.00	15,040.52	7,056.00	216.28	215.37	-65.37	1,648.35	-7,883.28	484.64	94.36	390.28	1.242	Level 3	
15,500.00	7,258.00	15,140.52	7,056.00	218.96	218.06	-65.37	1,647.48	-7,983.28	484.67	89.43	395.24	1.226	Level 3	
15,600.00	7,258.00	15,240.52	7,056.00	221.64	220.75	-65.37	1,646.62	-8,083.27	484.69	84.50	400.19	1.211	Level 3	
15,700.00	7,258.00	15,340.52	7,056.00	224.32	223.44	-65.37	1,645.75	-8,183.27	484.72	79.57	405.15	1.196	Level 3	
15,800.00	7,258.00	15,440.52	7,056.00	227.01	226.13	-65.37	1,644.88	-8,283.27	484.74	74.63	410.11	1.182	Level 3	
15,837.79	7,258.00	15,478.31	7,056.00	228.02	227.15	-65.37	1,644.56	-8,321.05	484.75	72.77	411.98	1.177	Level 3, SF	

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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 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	-180.00	-32.79	0.00	32.79	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		
600.00	600.00	600.00	600.00	1.94	1.94	-180.00	-32.79	0.00	32.79	28.92	3.87	8.469		
700.00	700.00	700.00	700.00	2.29	2.29	-180.00	-32.79	0.00	32.79	28.20	4.59	7.146		
800.00	800.00	800.00	800.00	2.65	2.65	-180.00	-32.79	0.00	32.79	27.48	5.31	6.180		
900.00	900.00	900.00	900.00	3.01	3.01	-180.00	-32.79	0.00	32.79	26.76	6.02	5.444		
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	-180.00	-32.79	0.00	32.79	26.05	6.74	4.865		
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	-180.00	-32.79	0.00	32.79	25.33	7.46	4.397		
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	-180.00	-32.79	0.00	32.79	24.61	8.17	4.012		
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	-180.00	-32.79	0.00	32.79	23.90	8.89	3.688		
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	-180.00	-32.79	0.00	32.79	23.18	9.61	3.413		
1,500.00	1,500.00	1,500.00	1,500.00	5.16	5.16	-180.00	-32.79	0.00	32.79	22.46	10.32	3.176		
1,600.00	1,600.00	1,600.00	1,600.00	5.52	5.52	-180.00	-32.79	0.00	32.79	21.75	11.04	2.970		
1,700.00	1,700.00	1,700.00	1,700.00	5.88	5.88	-180.00	-32.79	0.00	32.79	21.03	11.76	2.789		
1,800.00	1,800.00	1,800.00	1,800.00	6.24	6.24	-180.00	-32.79	0.00	32.79	20.31	12.47	2.628		
1,900.00	1,900.00	1,900.00	1,900.00	6.60	6.60	-180.00	-32.79	0.00	32.79	19.60	13.19	2.485		
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-180.00	-32.79	0.00	32.79	18.88	13.91	2.357		
2,100.00	2,100.00	2,100.00	2,100.00	7.31	7.31	-180.00	-32.79	0.00	32.79	18.16	14.63	2.242		
2,200.00	2,200.00	2,200.00	2,200.00	7.67	7.67	-180.00	-32.79	0.00	32.79	17.44	15.34	2.137 CC, ES		
2,300.00	2,299.98	2,299.98	2,299.98	8.03	8.03	179.27	-32.79	0.00	34.53	18.47	16.06	2.150		
2,400.00	2,399.84	2,399.84	2,399.84	8.39	8.39	179.36	-32.79	0.00	39.76	22.99	16.78	2.370		
2,500.00	2,499.45	2,501.12	2,501.10	8.75	8.75	179.46	-31.00	0.02	46.72	29.24	17.49	2.672		
2,600.00	2,598.70	2,602.66	2,602.49	9.10	9.11	179.55	-25.62	0.08	53.63	35.45	18.18	2.950		
2,700.00	2,697.47	2,704.45	2,703.88	9.47	9.48	179.63	-16.63	0.17	60.49	41.63	18.86	3.208		
2,800.00	2,795.62	2,806.50	2,805.14	9.84	9.84	179.70	-4.00	0.30	67.27	47.76	19.51	3.448		
2,900.00	2,893.06	2,908.80	2,906.13	10.23	10.21	179.76	12.27	0.47	73.98	53.84	20.15	3.672		
3,000.00	2,989.64	3,011.34	3,006.71	10.63	10.60	179.82	32.19	0.68	80.61	59.85	20.76	3.882		
3,100.00	3,085.27	3,114.14	3,106.77	11.05	10.99	179.88	55.76	0.93	87.14	65.78	21.36	4.080		
3,200.00	3,179.82	3,217.18	3,206.15	11.50	11.41	179.94	82.97	1.21	93.57	71.63	21.94	4.265		
3,300.00	3,273.17	3,317.69	3,302.38	11.98	11.83	179.99	111.95	1.52	100.96	78.33	22.63	4.461		
3,400.00	3,365.21	3,417.10	3,397.54	12.49	12.26	-179.96	140.71	1.82	111.73	88.36	23.36	4.782		
3,500.00	3,455.84	3,516.08	3,492.28	13.04	12.70	-179.93	169.35	2.12	125.96	101.86	24.10	5.226		
3,506.72	3,461.88	3,522.71	3,498.63	13.08	12.74	-179.93	171.26	2.14	127.04	102.89	24.15	5.260		
3,600.00	3,545.62	3,614.76	3,586.75	13.62	13.16	-179.90	197.90	2.42	142.14	117.29	24.85	5.720		
3,700.00	3,635.40	3,713.44	3,681.21	14.23	13.62	-179.88	226.44	2.72	158.33	132.73	25.60	6.185		
3,800.00	3,725.17	3,812.12	3,775.67	14.85	14.10	-179.86	254.99	3.02	174.52	148.16	26.36	6.620		
3,900.00	3,814.95	3,910.80	3,870.13	15.50	14.58	-179.85	283.54	3.32	190.71	163.59	27.13	7.030		
4,000.00	3,904.73	4,009.48	3,964.59	16.15	15.07	-179.84	312.09	3.62	206.90	179.00	27.90	7.415		
4,100.00	3,994.50	4,108.16	4,059.05	16.82	15.56	-179.83	340.64	3.92	223.10	194.41	28.68	7.778		
4,200.00	4,084.28	4,206.84	4,153.51	17.51	16.06	-179.82	369.19	4.22	239.29	209.82	29.47	8.120		
4,300.00	4,174.06	4,305.52	4,247.97	18.20	16.57	-179.81	397.74	4.51	255.48	225.22	30.26	8.443		
4,400.00	4,263.83	4,404.20	4,342.43	18.90	17.08	-179.80	426.28	4.81	271.67	240.61	31.06	8.748		
4,500.00	4,353.61	4,502.88	4,436.89	19.62	17.60	-179.80	454.83	5.11	287.86	256.00	31.86	9.036		
4,600.00	4,443.38	4,601.56	4,531.35	20.33	18.12	-179.79	483.38	5.41	304.05	271.39	32.66	9.310		
4,700.00	4,533.16	4,700.24	4,625.81	21.06	18.65	-179.79	511.93	5.71	320.24	286.77	33.47	9.569		
4,800.00	4,622.94	4,798.93	4,720.27	21.79	19.18	-179.78	540.48	6.01	336.43	302.15	34.28	9.815		
4,900.00	4,712.71	4,897.61	4,814.73	22.53	19.71	-179.78	569.03	6.31	352.62	317.53	35.09	10.048		
5,000.00	4,802.49	4,996.29	4,909.19	23.27	20.25	-179.78	597.58	6.61	368.81	332.90	35.91	10.270		

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 11-10-5H
<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 11-10-5H	<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 Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,892.27	5,094.97	5,003.65	24.02	20.78	-179.77	626.12	6.91	385.00	348.27	36.73	10.482		
5,200.00	4,982.04	5,193.65	5,098.11	24.77	21.32	-179.77	654.67	7.21	401.19	363.64	37.55	10.683		
5,300.00	5,071.82	5,292.33	5,192.57	25.53	21.87	-179.77	683.22	7.51	417.38	379.00	38.38	10.875		
5,400.00	5,161.59	5,391.01	5,287.03	26.29	22.41	-179.76	711.77	7.81	433.57	394.36	39.21	11.059		
5,500.00	5,251.37	5,489.69	5,381.49	27.05	22.96	-179.76	740.32	8.11	449.76	409.72	40.04	11.234		
5,600.00	5,341.15	5,588.37	5,475.95	27.81	23.51	-179.76	768.87	8.41	465.95	425.08	40.87	11.402		
5,700.00	5,430.92	5,687.05	5,570.41	28.58	24.06	-179.76	797.42	8.71	482.14	440.44	41.70	11.562		
5,800.00	5,520.70	5,785.73	5,664.87	29.35	24.62	-179.76	825.96	9.01	498.33	455.79	42.54	11.715		
5,900.00	5,610.48	5,884.41	5,759.33	30.12	25.17	-179.75	854.51	9.30	514.52	471.15	43.37	11.862		
6,000.00	5,700.25	5,983.09	5,853.79	30.90	25.73	-179.75	883.06	9.60	530.71	486.50	44.21	12.004		
6,100.00	5,790.03	6,081.77	5,948.25	31.67	26.28	-179.75	911.61	9.90	546.90	501.85	45.05	12.139		
6,200.00	5,879.81	6,180.45	6,042.71	32.45	26.84	-179.75	940.16	10.20	563.09	517.20	45.89	12.269		
6,300.00	5,969.58	6,279.14	6,137.18	33.23	27.40	-179.75	968.71	10.50	579.28	532.54	46.74	12.394		
6,400.00	6,059.36	6,377.82	6,231.64	34.01	27.96	-179.75	997.26	10.80	595.47	547.89	47.58	12.515		
6,500.00	6,149.13	6,476.50	6,326.10	34.79	28.53	-179.75	1,025.80	11.10	611.66	563.23	48.43	12.630		
6,600.00	6,238.91	6,575.18	6,420.56	35.58	29.09	-179.74	1,054.35	11.40	627.85	578.58	49.27	12.742		
6,700.00	6,328.69	6,673.86	6,515.02	36.36	29.65	-179.74	1,082.90	11.70	644.04	593.92	50.12	12.849		
6,800.00	6,418.46	6,772.31	6,609.25	37.15	30.22	-179.74	1,111.38	11.94	660.24	609.26	50.97	12.953		
6,900.00	6,508.24	6,867.02	6,699.44	37.94	30.75	-178.95	1,138.56	3.10	676.73	624.91	51.83	13.058		
7,000.00	6,598.02	6,956.30	6,782.12	38.73	31.24	-177.06	1,163.37	-19.33	694.36	641.63	52.73	13.169		
7,100.00	6,687.79	7,036.79	6,853.03	39.52	31.66	-174.51	1,184.54	-50.82	714.48	660.78	53.70	13.306		
7,156.65	6,738.65	7,077.87	6,887.42	39.96	31.86	-172.93	1,194.77	-70.81	727.58	673.33	54.25	13.411		
7,200.00	6,777.55	7,107.78	6,911.55	40.31	32.01	-161.87	1,201.93	-86.96	738.38	683.72	54.67	13.507		
7,250.00	6,822.15	7,141.71	6,937.91	40.70	32.17	-149.71	1,209.73	-106.84	751.23	696.12	55.11	13.631		
7,300.00	6,866.16	7,175.11	6,962.72	41.09	32.33	-138.67	1,217.06	-127.96	764.29	708.77	55.52	13.765		
7,350.00	6,909.24	7,208.07	6,986.01	41.47	32.48	-129.01	1,223.91	-150.25	777.37	721.48	55.89	13.910		
7,400.00	6,951.05	7,240.65	7,007.79	41.83	32.64	-120.72	1,230.30	-173.62	790.28	734.07	56.21	14.060		
7,450.00	6,991.29	7,272.91	7,028.07	42.19	32.78	-113.68	1,236.23	-197.99	802.85	746.36	56.49	14.212		
7,500.00	7,029.64	7,300.00	7,044.06	42.53	32.91	-107.83	1,240.89	-219.34	814.95	758.35	56.60	14.399		
7,550.00	7,065.81	7,336.65	7,064.14	42.86	33.08	-102.71	1,246.71	-249.45	826.38	769.43	56.95	14.510		
7,600.00	7,099.54	7,368.21	7,079.92	43.17	33.23	-98.48	1,251.26	-276.39	837.07	779.92	57.15	14.646		
7,650.00	7,130.55	7,400.00	7,094.36	43.47	33.39	-94.91	1,255.39	-304.40	846.91	789.55	57.36	14.765		
7,700.00	7,158.62	7,430.85	7,106.92	43.76	33.55	-91.94	1,258.96	-332.34	855.78	798.22	57.56	14.869		
7,750.00	7,183.53	7,461.98	7,118.13	44.03	33.71	-89.48	1,262.11	-361.22	863.61	805.83	57.78	14.947		
7,800.00	7,205.09	7,500.00	7,129.76	44.30	33.93	-87.43	1,265.33	-397.26	870.38	812.12	58.26	14.939		
7,850.00	7,223.14	7,524.00	7,135.92	44.55	34.06	-85.89	1,267.00	-420.40	875.89	817.55	58.33	15.015		
7,900.00	7,237.54	7,550.00	7,141.53	44.80	34.22	-84.71	1,268.49	-445.74	880.25	821.73	58.51	15.044		
7,950.00	7,248.18	7,585.80	7,147.45	45.04	34.45	-83.84	1,269.99	-481.01	883.31	824.23	59.08	14.951		
8,000.00	7,254.98	7,616.66	7,150.85	45.28	34.66	-83.34	1,270.77	-511.67	885.12	825.57	59.54	14.865		
8,050.00	7,257.88	7,650.00	7,152.75	45.51	34.90	-83.17	1,271.07	-544.94	885.64	825.50	60.14	14.726		
8,062.16	7,258.00	7,655.02	7,152.87	45.57	34.94	-83.18	1,271.07	-549.97	885.57	825.37	60.20	14.711		
8,100.00	7,258.00	7,685.21	7,153.00	45.75	35.17	-83.19	1,270.86	-580.15	885.47	824.62	60.85	14.551		
8,106.77	7,258.00	7,691.99	7,153.00	45.78	35.23	-83.19	1,270.80	-586.93	885.47	824.45	61.02	14.511		
8,200.00	7,258.00	7,785.21	7,153.00	46.30	36.07	-83.19	1,270.04	-680.15	885.45	821.98	63.47	13.951		
8,300.00	7,258.00	7,885.21	7,153.00	46.98	37.17	-83.19	1,269.22	-780.15	885.43	819.02	66.42	13.331		
8,400.00	7,258.00	7,985.21	7,153.00	47.79	38.46	-83.19	1,268.40	-880.14	885.41	815.75	69.66	12.710		
8,500.00	7,258.00	8,085.21	7,153.00	48.75	39.94	-83.19	1,267.58	-980.14	885.40	812.23	73.16	12.102		
8,600.00	7,258.00	8,185.21	7,153.00	49.84	41.56	-83.19	1,266.76	-1,080.14	885.38	808.49	76.88	11.516		
8,700.00	7,258.00	8,285.21	7,153.00	51.09	43.32	-83.19	1,265.95	-1,180.13	885.36	804.56	80.79	10.958		
8,800.00	7,258.00	8,385.21	7,153.00	52.47	45.19	-83.19	1,265.13	-1,280.13	885.34	800.47	84.87	10.432		
8,900.00	7,258.00	8,485.21	7,153.00	53.99	47.16	-83.19	1,264.31	-1,380.13	885.32	796.23	89.09	9.938		
9,000.00	7,258.00	8,585.21	7,153.00	55.62	49.20	-83.19	1,263.49	-1,480.12	885.30	791.87	93.43	9.476		

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 11-10-5H
<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 11-10-5H	<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		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
9,100.00	7,258.00	8,685.21	7,153.00	57.37	51.32	-83.19	1,262.67	-1,580.12	885.28	787.40	97.88	9.045				
9,200.00	7,258.00	8,785.21	7,153.00	59.21	53.50	-83.19	1,261.85	-1,680.12	885.26	782.84	102.41	8.644				
9,300.00	7,258.00	8,885.21	7,153.00	61.14	55.73	-83.19	1,261.03	-1,780.11	885.24	778.21	107.03	8.271				
9,400.00	7,258.00	8,985.21	7,153.00	63.14	58.00	-83.19	1,260.22	-1,880.11	885.22	773.50	111.72	7.923				
9,500.00	7,258.00	9,085.21	7,153.00	65.21	60.32	-83.19	1,259.40	-1,980.11	885.20	768.72	116.48	7.600				
9,600.00	7,258.00	9,185.21	7,153.00	67.33	62.67	-83.19	1,258.58	-2,080.10	885.18	763.90	121.28	7.298				
9,700.00	7,258.00	9,285.21	7,153.00	69.51	65.05	-83.19	1,257.76	-2,180.10	885.16	759.02	126.14	7.017				
9,800.00	7,258.00	9,385.21	7,153.00	71.73	67.45	-83.19	1,256.94	-2,280.10	885.14	754.10	131.04	6.755				
9,900.00	7,258.00	9,485.21	7,153.00	74.00	69.88	-83.19	1,256.12	-2,380.09	885.12	749.15	135.98	6.509				
10,000.00	7,258.00	9,585.21	7,153.00	76.30	72.34	-83.19	1,255.30	-2,480.09	885.10	744.15	140.95	6.280				
10,100.00	7,258.00	9,685.21	7,153.00	78.63	74.81	-83.19	1,254.48	-2,580.09	885.08	739.13	145.95	6.064				
10,200.00	7,258.00	9,785.21	7,153.00	80.99	77.30	-83.19	1,253.67	-2,680.08	885.07	734.08	150.98	5.862				
10,300.00	7,258.00	9,885.21	7,153.00	83.37	79.80	-83.19	1,252.85	-2,780.08	885.05	729.01	156.04	5.672				
10,400.00	7,258.00	9,985.21	7,153.00	85.78	82.32	-83.19	1,252.03	-2,880.08	885.03	723.91	161.12	5.493				
10,500.00	7,258.00	10,085.21	7,153.00	88.21	84.85	-83.19	1,251.21	-2,980.07	885.01	718.79	166.22	5.324				
10,600.00	7,258.00	10,185.21	7,153.00	90.65	87.40	-83.19	1,250.39	-3,080.07	884.99	713.65	171.34	5.165				
10,700.00	7,258.00	10,285.21	7,153.00	93.12	89.95	-83.19	1,249.57	-3,180.07	884.97	708.50	176.47	5.015				
10,800.00	7,258.00	10,385.21	7,153.00	95.59	92.51	-83.19	1,248.75	-3,280.06	884.95	703.33	181.62	4.872				
10,900.00	7,258.00	10,485.21	7,153.00	98.09	95.09	-83.19	1,247.94	-3,380.06	884.93	698.14	186.79	4.738				
11,000.00	7,258.00	10,585.21	7,153.00	100.59	97.67	-83.19	1,247.12	-3,480.06	884.91	692.94	191.97	4.610				
11,100.00	7,258.00	10,685.21	7,153.00	103.11	100.26	-83.19	1,246.30	-3,580.05	884.89	687.73	197.16	4.488				
11,200.00	7,258.00	10,785.21	7,153.00	105.64	102.85	-83.19	1,245.48	-3,680.05	884.87	682.51	202.36	4.373				
11,300.00	7,258.00	10,885.21	7,153.00	108.18	105.46	-83.18	1,244.66	-3,780.05	884.85	677.28	207.57	4.263				
11,400.00	7,258.00	10,985.21	7,153.00	110.73	108.06	-83.18	1,243.84	-3,880.04	884.83	672.04	212.80	4.158				
11,500.00	7,258.00	11,085.21	7,153.00	113.29	110.68	-83.18	1,243.02	-3,980.04	884.81	666.79	218.03	4.058				
11,600.00	7,258.00	11,185.21	7,153.00	115.85	113.30	-83.18	1,242.21	-4,080.04	884.79	661.53	223.27	3.963				
11,700.00	7,258.00	11,285.21	7,153.00	118.43	115.92	-83.18	1,241.39	-4,180.03	884.77	656.26	228.52	3.872				
11,800.00	7,258.00	11,385.21	7,153.00	121.01	118.55	-83.18	1,240.57	-4,280.03	884.75	650.98	233.77	3.785				
11,900.00	7,258.00	11,485.21	7,153.00	123.59	121.18	-83.18	1,239.75	-4,380.03	884.74	645.70	239.03	3.701				
12,000.00	7,258.00	11,585.21	7,153.00	126.18	123.82	-83.18	1,238.93	-4,480.02	884.72	640.42	244.30	3.621				
12,100.00	7,258.00	11,685.21	7,153.00	128.78	126.46	-83.18	1,238.11	-4,580.02	884.70	635.12	249.57	3.545				
12,200.00	7,258.00	11,785.21	7,153.00	131.39	129.10	-83.18	1,237.29	-4,680.02	884.68	629.82	254.85	3.471				
12,300.00	7,258.00	11,885.21	7,153.00	133.99	131.75	-83.18	1,236.48	-4,780.01	884.66	624.52	260.14	3.401				
12,400.00	7,258.00	11,985.21	7,153.00	136.61	134.40	-83.18	1,235.66	-4,880.01	884.64	619.21	265.43	3.333				
12,500.00	7,258.00	12,085.21	7,153.00	139.22	137.05	-83.18	1,234.84	-4,980.01	884.62	613.90	270.72	3.268				
12,600.00	7,258.00	12,185.21	7,153.00	141.84	139.71	-83.18	1,234.02	-5,080.00	884.60	608.58	276.02	3.205				
12,700.00	7,258.00	12,285.21	7,153.00	144.47	142.36	-83.18	1,233.20	-5,180.00	884.58	603.26	281.32	3.144				
12,800.00	7,258.00	12,385.21	7,153.00	147.10	145.02	-83.18	1,232.38	-5,280.00	884.56	597.93	286.63	3.086				
12,900.00	7,258.00	12,485.21	7,153.00	149.73	147.69	-83.18	1,231.56	-5,379.99	884.54	592.60	291.94	3.030				
13,000.00	7,258.00	12,585.21	7,153.00	152.37	150.35	-83.18	1,230.74	-5,479.99	884.52	587.27	297.25	2.976				
13,100.00	7,258.00	12,685.21	7,153.00	155.01	153.02	-83.18	1,229.93	-5,579.99	884.50	581.93	302.57	2.923				
13,200.00	7,258.00	12,785.21	7,153.00	157.65	155.69	-83.18	1,229.11	-5,679.98	884.48	576.59	307.89	2.873				
13,300.00	7,258.00	12,885.21	7,153.00	160.29	158.36	-83.18	1,228.29	-5,779.98	884.46	571.25	313.22	2.824				
13,400.00	7,258.00	12,985.21	7,153.00	162.94	161.03	-83.18	1,227.47	-5,879.98	884.44	565.90	318.54	2.777				
13,500.00	7,258.00	13,085.21	7,153.00	165.59	163.70	-83.18	1,226.65	-5,979.97	884.42	560.55	323.87	2.731				
13,600.00	7,258.00	13,185.21	7,153.00	168.24	166.38	-83.18	1,225.83	-6,079.97	884.41	555.20	329.20	2.687				
13,700.00	7,258.00	13,285.21	7,153.00	170.89	169.06	-83.18	1,225.01	-6,179.97	884.39	549.85	334.53	2.644				
13,800.00	7,258.00	13,385.21	7,153.00	173.55	171.73	-83.18	1,224.20	-6,279.96	884.37	544.50	339.87	2.602				
13,900.00	7,258.00	13,485.21	7,153.00	176.21	174.41	-83.18	1,223.38	-6,379.96	884.35	539.14	345.21	2.562				
14,000.00	7,258.00	13,585.21	7,153.00	178.87	177.09	-83.18	1,222.56	-6,479.96	884.33	533.78	350.55	2.523				
14,100.00	7,258.00	13,685.21	7,153.00	181.53	179.78	-83.18	1,221.74	-6,579.95	884.31	528.42	355.89	2.485				
14,200.00	7,258.00	13,785.21	7,153.00	184.19	182.46	-83.18	1,220.92	-6,679.95	884.29	523.05	361.24	2.448				

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 11-10-5H
<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 11-10-5H	<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 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	7,258.00	13,885.21	7,153.00	186.86	185.14	-83.18	1,220.10	-6,779.95	884.27	517.69	366.58	2.412		
14,400.00	7,258.00	13,985.21	7,153.00	189.53	187.83	-83.18	1,219.28	-6,879.94	884.25	512.32	371.93	2.377		
14,500.00	7,258.00	14,085.21	7,153.00	192.20	190.52	-83.18	1,218.47	-6,979.94	884.23	506.95	377.28	2.344		
14,600.00	7,258.00	14,185.21	7,153.00	194.87	193.20	-83.18	1,217.65	-7,079.94	884.21	501.58	382.63	2.311		
14,700.00	7,258.00	14,285.21	7,153.00	197.54	195.89	-83.18	1,216.83	-7,179.93	884.19	496.21	387.98	2.279		
14,800.00	7,258.00	14,385.21	7,153.00	200.21	198.58	-83.18	1,216.01	-7,279.93	884.17	490.84	393.34	2.248		
14,900.00	7,258.00	14,485.21	7,153.00	202.89	201.27	-83.18	1,215.19	-7,379.93	884.15	485.46	398.69	2.218		
15,000.00	7,258.00	14,585.21	7,153.00	205.56	203.96	-83.18	1,214.37	-7,479.92	884.13	480.08	404.05	2.188		
15,100.00	7,258.00	14,685.21	7,153.00	208.24	206.66	-83.18	1,213.55	-7,579.92	884.11	474.71	409.41	2.159		
15,200.00	7,258.00	14,785.21	7,153.00	210.92	209.35	-83.18	1,212.73	-7,679.92	884.09	469.33	414.77	2.132		
15,300.00	7,258.00	14,885.21	7,153.00	213.60	212.04	-83.18	1,211.92	-7,779.91	884.08	463.95	420.13	2.104		
15,400.00	7,258.00	14,985.21	7,153.00	216.28	214.74	-83.18	1,211.10	-7,879.91	884.06	458.57	425.49	2.078		
15,500.00	7,258.00	15,085.21	7,153.00	218.96	217.43	-83.18	1,210.28	-7,979.91	884.04	453.18	430.85	2.052		
15,600.00	7,258.00	15,185.21	7,153.00	221.64	220.13	-83.18	1,209.46	-8,079.90	884.02	447.80	436.22	2.027		
15,700.00	7,258.00	15,285.21	7,153.00	224.32	222.82	-83.18	1,208.64	-8,179.90	884.00	442.42	441.58	2.002		
15,800.00	7,258.00	15,385.21	7,153.00	227.01	225.52	-83.18	1,207.82	-8,279.90	883.98	437.03	446.95	1.978		
15,837.79	7,258.00	15,423.00	7,153.00	228.02	226.54	-83.18	1,207.51	-8,317.68	883.97	435.00	448.97	1.969 SF		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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		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			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.87	69.22	30.63	75.69	75.40	0.29	263.935			
100.00	100.00	100.00	100.00	0.14	0.14	0.14	0.14	23.87	69.22	30.63	75.69	74.69	1.00	75.410			
200.00	200.00	200.00	200.00	0.50	0.50	0.50	0.50	23.87	69.22	30.63	75.69	74.69	1.00	75.410			
300.00	300.00	300.00	300.00	0.86	0.86	0.86	0.86	23.87	69.22	30.63	75.69	73.97	1.72	43.989			
400.00	400.00	397.57	397.55	1.22	1.21	1.21	1.21	23.41	70.88	30.68	77.27	74.84	2.43	31.784			
500.00	500.00	494.92	494.77	1.58	1.57	1.57	1.57	22.13	75.84	30.84	82.04	78.90	3.14	26.114			
600.00	600.00	591.82	591.31	1.94	1.92	1.92	1.92	20.30	84.06	31.10	90.05	86.20	3.85	23.399			
700.00	700.00	688.05	686.86	2.29	2.28	2.28	2.28	18.24	95.44	31.46	101.35	96.80	4.55	22.274			
800.00	800.00	786.06	783.86	2.65	2.67	2.67	2.67	16.25	109.48	31.91	115.17	109.91	5.26	21.896			
900.00	900.00	885.01	881.77	3.01	3.07	3.07	3.07	14.65	123.78	32.36	129.23	123.25	5.98	21.623			
1,000.00	1,000.00	983.96	979.68	3.37	3.48	3.48	3.48	13.37	138.07	32.81	143.37	136.67	6.69	21.416			
1,100.00	1,100.00	1,082.91	1,077.59	3.73	3.89	3.89	3.89	12.32	152.37	33.27	157.56	150.15	7.41	21.257			
1,200.00	1,200.00	1,181.86	1,175.50	4.09	4.30	4.30	4.30	11.44	166.67	33.72	171.81	163.67	8.13	21.126			
1,300.00	1,300.00	1,280.81	1,273.41	4.45	4.71	4.71	4.71	10.69	180.97	34.17	186.08	177.23	8.85	21.019			
1,400.00	1,400.00	1,379.76	1,371.32	4.80	5.13	5.13	5.13	10.06	195.27	34.63	200.38	190.81	9.57	20.930			
1,500.00	1,500.00	1,478.71	1,469.23	5.16	5.55	5.55	5.55	9.50	209.57	35.08	214.70	204.41	10.30	20.854			
1,600.00	1,600.00	1,577.65	1,567.14	5.52	5.96	5.96	5.96	9.02	223.87	35.54	229.04	218.02	11.02	20.790			
1,700.00	1,700.00	1,676.60	1,665.05	5.88	6.38	6.38	6.38	8.59	238.17	35.99	243.39	231.65	11.74	20.734			
1,800.00	1,800.00	1,775.55	1,762.96	6.24	6.80	6.80	6.80	8.21	252.47	36.44	257.76	245.30	12.46	20.685			
1,900.00	1,900.00	1,874.50	1,860.87	6.60	7.22	7.22	7.22	7.87	266.77	36.90	272.13	258.95	13.18	20.642			
2,000.00	2,000.00	1,973.45	1,958.78	6.95	7.64	7.64	7.64	7.57	281.06	37.35	286.52	272.61	13.91	20.604			
2,100.00	2,100.00	2,072.40	2,056.69	7.31	8.06	8.06	8.06	7.29	295.36	37.80	300.91	286.28	14.63	20.570			
2,200.00	2,200.00	2,171.35	2,154.60	7.67	8.48	8.48	8.48	7.04	309.66	38.26	315.30	299.95	15.35	20.539			
2,300.00	2,299.98	2,270.53	2,252.74	8.03	8.90	8.90	8.90	6.05	323.99	38.71	327.98	311.91	16.07	20.404			
2,400.00	2,399.84	2,370.10	2,351.26	8.39	9.33	9.33	9.33	5.91	338.38	39.17	337.22	320.42	16.80	20.073			
2,500.00	2,499.45	2,469.93	2,450.04	8.75	9.75	9.75	9.75	5.84	352.81	39.63	342.99	325.46	17.53	19.569			
2,600.00	2,598.70	2,569.89	2,548.95	9.10	10.18	10.18	10.18	5.84	367.25	40.08	345.30	327.04	18.26	18.914			
2,700.00	2,697.47	2,669.88	2,647.89	9.47	10.60	10.60	10.60	5.91	381.70	40.54	344.13	325.14	18.99	18.125			
2,800.00	2,795.62	2,769.77	2,746.73	9.84	11.03	11.03	11.03	6.04	396.14	41.00	339.49	319.77	19.72	17.217			
2,900.00	2,893.06	2,869.43	2,845.34	10.23	11.45	11.45	11.45	6.26	410.54	41.46	331.39	310.94	20.45	16.206			
3,000.00	2,989.64	2,968.74	2,943.61	10.63	11.88	11.88	11.88	6.56	424.89	41.91	319.85	298.66	21.18	15.101			
3,100.00	3,085.27	3,067.59	3,041.42	11.05	12.30	12.30	12.30	6.97	439.18	42.37	304.87	282.96	21.91	13.913			
3,200.00	3,179.82	3,165.85	3,138.65	11.50	12.72	12.72	12.72	7.52	453.37	42.82	286.50	263.86	22.65	12.651			
3,300.00	3,273.17	3,263.40	3,235.17	11.98	13.13	13.13	13.13	8.26	467.47	43.26	264.77	241.39	23.38	11.325			
3,400.00	3,365.21	3,360.13	3,330.88	12.49	13.55	13.55	13.55	9.27	481.45	43.71	239.73	215.61	24.12	9.940			
3,500.00	3,455.84	3,455.91	3,425.66	13.04	13.95	13.95	13.95	10.71	495.29	44.15	211.46	186.59	24.86	8.505			
3,506.72	3,461.88	3,462.31	3,431.99	13.08	13.98	13.98	13.98	10.82	496.22	44.18	209.44	184.53	24.91	8.407			
3,600.00	3,545.62	3,551.11	3,519.86	13.62	14.36	14.36	14.36	12.59	509.05	44.58	181.47	155.85	25.62	7.083			
3,700.00	3,635.40	3,646.31	3,614.06	14.23	14.77	14.77	14.77	15.19	522.81	45.02	151.73	125.32	26.42	5.744			
3,800.00	3,725.17	3,741.51	3,708.26	14.85	15.17	15.17	15.17	19.05	536.56	45.46	122.42	95.14	27.28	4.488			
3,900.00	3,814.95	3,836.71	3,802.46	15.50	15.58	15.58	15.58	25.25	550.32	45.89	93.93	65.64	28.29	3.320			
4,000.00	3,904.73	3,931.91	3,896.66	16.15	15.98	15.98	15.98	36.45	564.08	46.33	67.34	37.63	29.71	2.267			
4,100.00	3,994.50	4,027.11	3,990.86	16.82	16.39	16.39	16.39	59.11	577.83	46.76	46.04	13.92	32.12	1.433 Level 3			
4,178.90	4,065.33	4,102.22	4,065.18	17.36	16.71	16.71	16.71	89.51	588.69	47.11	39.20	5.12	34.07	1.150 Level 3, CC, ES, SF			
4,200.00	4,084.28	4,122.31	4,085.06	17.51	16.80	16.80	16.80	98.42	591.59	47.20	39.73	5.52	34.21	1.161 Level 3			
4,300.00	4,174.06	4,217.51	4,179.26	18.20	17.20	17.20	17.20	131.50	605.35	47.64	53.95	20.64	33.31	1.620			
4,400.00	4,263.83	4,312.71	4,273.46	18.90	17.61	17.61	17.61	148.19	619.11	48.07	78.21	45.37	32.83	2.382			
4,500.00	4,353.61	4,407.92	4,367.66	19.62	18.02	18.02	18.02	156.78	632.86	48.51	105.81	72.78	33.03	3.203			
4,600.00	4,443.38	4,503.12	4,461.86	20.33	18.42	18.42	18.42	161.79	646.62	48.95	134.72	101.20	33.52	4.019			
4,700.00	4,533.16	4,598.32	4,556.06	21.06	18.83	18.83	18.83	165.03	660.38	49.38	164.25	130.12	34.13	4.812			
4,800.00	4,622.94	4,693.52	4,650.26	21.79	19.24	19.24	19.24	167.29	674.14	49.82	194.11	159.31	34.80	5.578			
4,900.00	4,712.71	4,788.72	4,744.46	22.53	19.64	19.64	19.64	168.94	687.89	50.26	224.17	188.67	35.51	6.314			

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 11-10-5H
<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 11-10-5H	<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)	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	4,802.49	4,883.92	4,838.66	23.27	20.05	170.20		701.65	50.69	254.37	218.13	36.23	7.021					
5,100.00	4,892.27	4,979.12	4,932.87	24.02	20.46	171.20		715.41	51.13	284.65	247.68	36.97	7.699					
5,200.00	4,982.04	5,074.32	5,027.07	24.77	20.86	172.00		729.16	51.57	314.99	277.27	37.72	8.351					
5,300.00	5,071.82	5,169.52	5,121.27	25.53	21.27	172.66		742.92	52.00	345.38	306.91	38.48	8.977					
5,400.00	5,161.59	5,264.72	5,215.47	26.29	21.68	173.22		756.68	52.44	375.81	336.57	39.24	9.578					
5,500.00	5,251.37	5,359.92	5,309.67	27.05	22.08	173.69		770.44	52.87	406.26	366.26	40.00	10.156					
5,600.00	5,341.15	5,455.12	5,403.87	27.81	22.49	174.10		784.19	53.31	436.74	395.97	40.77	10.711					
5,700.00	5,430.92	5,550.32	5,498.07	28.58	22.90	174.45		797.95	53.75	467.23	425.69	41.55	11.246					
5,800.00	5,520.70	5,642.63	5,589.41	29.35	23.29	174.75		811.24	54.17	497.80	455.50	42.30	11.769					
5,900.00	5,610.48	5,722.88	5,669.04	30.12	23.62	175.01		821.26	54.49	530.19	487.26	42.93	12.349					
6,000.00	5,700.25	5,800.00	5,745.78	30.90	23.92	175.25		828.78	54.73	565.20	521.69	43.51	12.989					
6,100.00	5,790.03	5,878.58	5,824.16	31.67	24.20	175.49		834.32	54.90	602.74	558.65	44.09	13.672					
6,200.00	5,879.81	5,953.89	5,899.40	32.45	24.45	175.72		837.62	55.01	642.73	598.13	44.60	14.411					
6,300.00	5,969.58	6,027.45	5,972.94	33.23	24.69	175.93		838.92	55.05	685.09	640.01	45.08	15.198					
6,400.00	6,059.36	6,113.86	6,059.36	34.01	24.96	176.17		838.96	55.05	729.01	683.27	45.74	15.937					
6,500.00	6,149.13	6,203.64	6,149.13	34.79	25.23	176.39		838.96	55.05	772.98	726.52	46.46	16.638					
6,600.00	6,238.91	6,293.42	6,238.91	35.58	25.50	176.58		838.96	55.05	816.96	769.78	47.18	17.317					
6,700.00	6,328.69	6,383.19	6,328.69	36.36	25.78	176.75		838.96	55.05	860.95	813.05	47.90	17.974					
6,800.00	6,418.46	6,472.97	6,418.46	37.15	26.06	176.91		838.96	55.05	904.94	856.32	48.62	18.612					
6,900.00	6,508.24	6,562.75	6,508.24	37.94	26.33	177.06		838.96	55.05	948.94	899.60	49.35	19.231					
7,000.00	6,598.02	6,652.52	6,598.02	38.73	26.61	177.19		838.96	55.05	992.94	942.87	50.07	19.831					
7,100.00	6,687.79	6,742.71	6,688.21	39.52	26.89	177.31		838.96	54.94	1,036.95	986.15	50.80	20.412					
7,156.65	6,738.65	6,795.22	6,740.58	39.96	27.05	177.58		838.93	51.51	1,061.82	1,010.60	51.22	20.731					
7,200.00	6,777.55	6,834.93	6,779.87	40.31	27.17	-171.23		838.88	45.75	1,080.83	1,029.31	51.53	20.976					
7,250.00	6,822.15	6,880.52	6,824.35	40.70	27.30	-158.90		838.80	35.79	1,102.67	1,050.79	51.88	21.256					
7,300.00	6,866.16	6,926.00	6,867.79	41.09	27.43	-147.69		838.69	22.37	1,124.23	1,072.01	52.22	21.529					
7,350.00	6,909.24	6,971.49	6,910.04	41.47	27.55	-137.84		838.55	5.54	1,145.35	1,092.79	52.56	21.791					
7,400.00	6,951.05	7,017.10	6,950.92	41.83	27.67	-129.36		838.38	-14.65	1,165.86	1,112.95	52.91	22.036					
7,450.00	6,991.29	7,062.92	6,990.25	42.19	27.79	-122.13		838.19	-38.13	1,185.59	1,132.33	53.26	22.261					
7,500.00	7,029.64	7,109.04	7,027.81	42.53	27.91	-116.00		837.97	-64.87	1,204.40	1,150.77	53.63	22.459					
7,550.00	7,065.81	7,155.51	7,063.36	42.86	28.02	-110.79		837.73	-94.77	1,222.14	1,168.12	54.02	22.624					
7,600.00	7,099.54	7,202.38	7,096.64	43.17	28.14	-106.38		837.46	-127.75	1,238.68	1,184.23	54.45	22.750					
7,650.00	7,130.55	7,249.68	7,127.38	43.47	28.26	-102.66		837.16	-163.68	1,253.88	1,198.96	54.92	22.829					
7,700.00	7,158.62	7,297.41	7,155.30	43.76	28.40	-99.52		836.84	-202.38	1,267.65	1,212.18	55.46	22.856					
7,750.00	7,183.53	7,345.56	7,180.10	44.03	28.56	-96.89		836.51	-243.64	1,279.86	1,223.78	56.07	22.825					
7,800.00	7,205.09	7,394.10	7,201.50	44.30	28.76	-94.73		836.15	-287.19	1,290.42	1,233.66	56.76	22.734					
7,850.00	7,223.14	7,442.97	7,219.24	44.55	29.01	-92.99		835.78	-332.70	1,299.27	1,241.73	57.54	22.579					
7,900.00	7,237.54	7,492.09	7,233.11	44.80	29.33	-91.64		835.39	-379.81	1,306.33	1,247.91	58.41	22.364					
7,950.00	7,248.18	7,541.39	7,242.92	45.04	29.71	-90.64		834.99	-428.11	1,311.54	1,252.17	59.37	22.090					
8,000.00	7,254.98	7,590.76	7,248.55	45.28	30.17	-89.99		834.59	-477.14	1,314.87	1,254.46	60.41	21.766					
8,050.00	7,257.88	7,640.21	7,250.00	45.51	30.69	-89.67		834.19	-526.56	1,316.30	1,254.78	61.52	21.396					
8,062.16	7,258.00	7,652.37	7,250.00	45.57	30.83	-89.65		834.09	-538.71	1,316.35	1,254.54	61.81	21.296					
8,100.00	7,258.00	7,690.21	7,250.00	45.75	31.27	-89.65		833.78	-576.55	1,316.35	1,253.61	62.74	20.982					
8,200.00	7,258.00	7,790.21	7,250.00	46.30	32.59	-89.65		832.95	-676.55	1,316.33	1,250.88	65.44	20.114					
8,300.00	7,258.00	7,890.21	7,250.00	46.98	34.10	-89.65		832.13	-776.55	1,316.31	1,247.84	68.48	19.223					
8,400.00	7,258.00	7,990.21	7,250.00	47.79	35.76	-89.65		831.31	-876.54	1,316.29	1,244.50	71.79	18.335					
8,500.00	7,258.00	8,090.21	7,250.00	48.75	37.55	-89.65		830.49	-976.54	1,316.27	1,240.92	75.36	17.467					
8,600.00	7,258.00	8,190.21	7,250.00	49.84	39.45	-89.65		829.67	-1,076.54	1,316.26	1,237.12	79.13	16.633					
8,700.00	7,258.00	8,290.21	7,250.00	51.09	41.44	-89.65		828.85	-1,176.53	1,316.24	1,233.14	83.10	15.840					
8,800.00	7,258.00	8,390.21	7,250.00	52.47	43.51	-89.65		828.03	-1,276.53	1,316.22	1,229.00	87.22	15.091					
8,900.00	7,258.00	8,490.21	7,250.00	53.99	45.66	-89.65		827.21	-1,376.53	1,316.20	1,224.72	91.48	14.388					
9,000.00	7,258.00	8,590.21	7,250.00	55.62	47.86	-89.65		826.39	-1,476.52	1,316.19	1,220.32	95.86	13.730					

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 11-10-5H
<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 11-10-5H	<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: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,100.00	7,258.00	8,690.21	7,250.00	57.37	50.11	-89.65	825.57	-1,576.52	1,316.17	1,215.82	100.35	13.116			
9,200.00	7,258.00	8,790.21	7,250.00	59.21	52.41	-89.65	824.75	-1,676.52	1,316.15	1,211.23	104.92	12.544			
9,300.00	7,258.00	8,890.21	7,250.00	61.14	54.75	-89.65	823.93	-1,776.51	1,316.13	1,206.56	109.57	12.011			
9,400.00	7,258.00	8,990.21	7,250.00	63.14	57.12	-89.65	823.11	-1,876.51	1,316.11	1,201.82	114.30	11.515			
9,500.00	7,258.00	9,090.21	7,250.00	65.21	59.52	-89.65	822.29	-1,976.51	1,316.10	1,197.01	119.08	11.052			
9,600.00	7,258.00	9,190.21	7,250.00	67.33	61.95	-89.65	821.47	-2,076.50	1,316.08	1,192.15	123.92	10.620			
9,700.00	7,258.00	9,290.21	7,250.00	69.51	64.40	-89.65	820.65	-2,176.50	1,316.06	1,187.25	128.81	10.217			
9,800.00	7,258.00	9,390.21	7,250.00	71.73	66.88	-89.65	819.83	-2,276.50	1,316.04	1,182.30	133.74	9.840			
9,900.00	7,258.00	9,490.21	7,249.99	74.00	69.37	-89.65	819.01	-2,376.49	1,316.03	1,177.31	138.71	9.487			
10,000.00	7,258.00	9,590.21	7,249.99	76.30	71.88	-89.65	818.19	-2,476.49	1,316.01	1,172.29	143.72	9.157			
10,100.00	7,258.00	9,690.21	7,249.99	78.63	74.40	-89.65	817.37	-2,576.49	1,315.99	1,167.24	148.75	8.847			
10,200.00	7,258.00	9,790.21	7,249.99	80.99	76.94	-89.65	816.55	-2,676.48	1,315.97	1,162.16	153.81	8.556			
10,300.00	7,258.00	9,890.21	7,249.99	83.37	79.49	-89.65	815.73	-2,776.48	1,315.95	1,157.05	158.90	8.282			
10,400.00	7,258.00	9,990.21	7,249.99	85.78	82.05	-89.65	814.91	-2,876.48	1,315.94	1,151.93	164.01	8.024			
10,500.00	7,258.00	10,090.21	7,249.99	88.21	84.62	-89.65	814.09	-2,976.47	1,315.92	1,146.78	169.14	7.780			
10,600.00	7,258.00	10,190.21	7,249.99	90.65	87.20	-89.65	813.27	-3,076.47	1,315.90	1,141.61	174.29	7.550			
10,700.00	7,258.00	10,290.21	7,249.99	93.12	89.79	-89.65	812.45	-3,176.47	1,315.88	1,136.43	179.46	7.333			
10,800.00	7,258.00	10,390.21	7,249.99	95.59	92.38	-89.65	811.63	-3,276.46	1,315.86	1,131.22	184.64	7.127			
10,900.00	7,258.00	10,490.21	7,249.99	98.09	94.99	-89.65	810.81	-3,376.46	1,315.85	1,126.01	189.84	6.931			
11,000.00	7,258.00	10,590.21	7,249.99	100.59	97.59	-89.65	809.99	-3,476.46	1,315.83	1,120.78	195.05	6.746			
11,100.00	7,258.00	10,690.21	7,249.99	103.11	100.21	-89.65	809.17	-3,576.45	1,315.81	1,115.54	200.27	6.570			
11,200.00	7,258.00	10,790.21	7,249.99	105.64	102.83	-89.65	808.35	-3,676.45	1,315.79	1,110.29	205.51	6.403			
11,300.00	7,258.00	10,890.21	7,249.99	108.18	105.46	-89.65	807.52	-3,776.45	1,315.78	1,105.02	210.75	6.243			
11,400.00	7,258.00	10,990.21	7,249.99	110.73	108.09	-89.65	806.70	-3,876.44	1,315.76	1,099.75	216.01	6.091			
11,500.00	7,258.00	11,090.21	7,249.99	113.29	110.72	-89.65	805.88	-3,976.44	1,315.74	1,094.47	221.27	5.946			
11,600.00	7,258.00	11,190.21	7,249.99	115.85	113.36	-89.65	805.06	-4,076.44	1,315.72	1,089.18	226.55	5.808			
11,700.00	7,258.00	11,290.21	7,249.99	118.43	116.01	-89.65	804.24	-4,176.43	1,315.70	1,083.88	231.83	5.675			
11,800.00	7,258.00	11,390.21	7,249.99	121.01	118.65	-89.65	803.42	-4,276.43	1,315.69	1,078.57	237.11	5.549			
11,900.00	7,258.00	11,490.21	7,249.99	123.59	121.30	-89.65	802.60	-4,376.42	1,315.67	1,073.26	242.41	5.427			
12,000.00	7,258.00	11,590.21	7,249.99	126.18	123.95	-89.65	801.78	-4,476.42	1,315.65	1,067.94	247.71	5.311			
12,100.00	7,258.00	11,690.21	7,249.99	128.78	126.61	-89.65	800.96	-4,576.42	1,315.63	1,062.62	253.02	5.200			
12,200.00	7,258.00	11,790.21	7,249.99	131.39	129.27	-89.65	800.14	-4,676.41	1,315.62	1,057.28	258.33	5.093			
12,300.00	7,258.00	11,890.21	7,249.99	133.99	131.93	-89.65	799.32	-4,776.41	1,315.60	1,051.95	263.65	4.990			
12,400.00	7,258.00	11,990.21	7,249.99	136.61	134.59	-89.65	798.50	-4,876.41	1,315.58	1,046.61	268.97	4.891			
12,500.00	7,258.00	12,090.21	7,249.99	139.22	137.26	-89.65	797.68	-4,976.40	1,315.56	1,041.26	274.30	4.796			
12,600.00	7,258.00	12,190.21	7,249.99	141.84	139.93	-89.65	796.86	-5,076.40	1,315.54	1,035.91	279.63	4.705			
12,700.00	7,258.00	12,290.21	7,249.99	144.47	142.60	-89.65	796.04	-5,176.40	1,315.53	1,030.56	284.97	4.616			
12,800.00	7,258.00	12,390.21	7,249.99	147.10	145.27	-89.65	795.22	-5,276.39	1,315.51	1,025.20	290.31	4.531			
12,900.00	7,258.00	12,490.21	7,249.99	149.73	147.94	-89.65	794.40	-5,376.39	1,315.49	1,019.84	295.65	4.449			
13,000.00	7,258.00	12,590.21	7,249.99	152.37	150.62	-89.65	793.58	-5,476.39	1,315.47	1,014.47	301.00	4.370			
13,100.00	7,258.00	12,690.21	7,249.99	155.01	153.30	-89.65	792.76	-5,576.38	1,315.45	1,009.10	306.35	4.294			
13,200.00	7,258.00	12,790.21	7,249.99	157.65	155.98	-89.65	791.94	-5,676.38	1,315.44	1,003.73	311.71	4.220			
13,300.00	7,258.00	12,890.21	7,249.98	160.29	158.66	-89.65	791.12	-5,776.38	1,315.42	998.35	317.07	4.149			
13,400.00	7,258.00	12,990.21	7,249.98	162.94	161.34	-89.65	790.30	-5,876.37	1,315.40	992.97	322.43	4.080			
13,500.00	7,258.00	13,090.21	7,249.98	165.59	164.02	-89.65	789.48	-5,976.37	1,315.38	987.59	327.79	4.013			
13,600.00	7,258.00	13,190.21	7,249.98	168.24	166.71	-89.65	788.66	-6,076.37	1,315.37	982.21	333.16	3.948			
13,700.00	7,258.00	13,290.21	7,249.98	170.89	169.39	-89.65	787.84	-6,176.36	1,315.35	976.82	338.52	3.886			
13,800.00	7,258.00	13,390.21	7,249.98	173.55	172.08	-89.65	787.02	-6,276.36	1,315.33	971.44	343.89	3.825			
13,900.00	7,258.00	13,490.21	7,249.98	176.21	174.77	-89.65	786.20	-6,376.36	1,315.31	966.05	349.27	3.766			
14,000.00	7,258.00	13,590.21	7,249.98	178.87	177.45	-89.65	785.38	-6,476.35	1,315.29	960.65	354.64	3.709			
14,100.00	7,258.00	13,690.21	7,249.98	181.53	180.14	-89.65	784.56	-6,576.35	1,315.28	955.26	360.02	3.653			
14,200.00	7,258.00	13,790.21	7,249.98	184.19	182.83	-89.65	783.74	-6,676.35	1,315.26	949.86	365.40	3.600			

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 11-10-5H
<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 11-10-5H	<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		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	7,258.00	13,890.21	7,249.98	186.86	185.53	-89.65	782.91	-6,776.34	1,315.24	944.46	370.78	3.547		
14,400.00	7,258.00	13,990.21	7,249.98	189.53	188.22	-89.65	782.09	-6,876.34	1,315.22	939.06	376.16	3.496		
14,500.00	7,258.00	14,090.21	7,249.98	192.20	190.91	-89.65	781.27	-6,976.34	1,315.20	933.66	381.55	3.447		
14,600.00	7,258.00	14,190.21	7,249.98	194.87	193.61	-89.65	780.45	-7,076.33	1,315.19	928.26	386.93	3.399		
14,700.00	7,258.00	14,290.21	7,249.98	197.54	196.30	-89.65	779.63	-7,176.33	1,315.17	922.85	392.32	3.352		
14,800.00	7,258.00	14,390.21	7,249.98	200.21	199.00	-89.65	778.81	-7,276.33	1,315.15	917.44	397.71	3.307		
14,900.00	7,258.00	14,490.21	7,249.98	202.89	201.69	-89.65	777.99	-7,376.32	1,315.13	912.03	403.10	3.263		
15,000.00	7,258.00	14,590.21	7,249.98	205.56	204.39	-89.65	777.17	-7,476.32	1,315.12	906.62	408.49	3.219		
15,100.00	7,258.00	14,690.21	7,249.98	208.24	207.09	-89.65	776.35	-7,576.32	1,315.10	901.21	413.88	3.177		
15,200.00	7,258.00	14,790.21	7,249.98	210.92	209.78	-89.65	775.53	-7,676.31	1,315.08	895.80	419.28	3.137		
15,300.00	7,258.00	14,890.21	7,249.98	213.60	212.48	-89.65	774.71	-7,776.31	1,315.06	890.39	424.67	3.097		
15,400.00	7,258.00	14,990.21	7,249.98	216.28	215.18	-89.65	773.89	-7,876.31	1,315.04	884.97	430.07	3.058		
15,500.00	7,258.00	15,090.21	7,249.98	218.96	217.88	-89.65	773.07	-7,976.30	1,315.03	879.56	435.47	3.020		
15,600.00	7,258.00	15,190.21	7,249.98	221.64	220.58	-89.65	772.25	-8,076.30	1,315.01	874.14	440.87	2.983		
15,700.00	7,258.00	15,290.21	7,249.98	224.32	223.28	-89.65	771.43	-8,176.30	1,314.99	868.72	446.27	2.947		
15,800.00	7,258.00	15,390.21	7,249.98	227.01	225.99	-89.65	770.61	-8,276.29	1,314.97	863.30	451.67	2.911		
15,837.79	7,258.00	15,431.47	7,249.99	228.02	227.10	-89.65	770.35	-8,317.55	1,314.89	861.01	453.88	2.897		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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)				
0.00	0.00	0.00	0.00	0.00	0.00	29.27	54.64	30.63	62.64	62.64	0.29	218.439		
100.00	100.00	100.00	100.00	0.14	0.14	29.27	54.64	30.63	62.64	62.36	1.00	62.411		
200.00	200.00	200.00	200.00	0.50	0.50	29.27	54.64	30.63	62.64	61.64	1.00	62.411		
300.00	300.00	300.00	300.00	0.86	0.86	29.27	54.64	30.63	62.64	60.92	1.72	36.407		
400.00	400.00	400.00	400.00	1.22	1.22	29.27	54.64	30.63	62.64	60.21	2.44	25.699	CC, ES	
500.00	500.00	497.85	497.83	1.58	1.57	29.51	55.96	31.67	64.33	61.18	3.15	20.445		
600.00	600.00	595.48	595.33	1.94	1.92	30.14	59.87	34.76	69.39	65.54	3.85	18.009		
700.00	700.00	695.25	694.87	2.29	2.28	30.87	65.20	38.97	76.13	71.56	4.57	16.670		
800.00	800.00	795.02	794.40	2.65	2.64	31.48	70.52	43.18	82.88	77.60	5.28	15.691		
900.00	900.00	894.79	893.94	3.01	3.01	32.00	75.84	47.39	89.63	83.64	6.00	14.945		
1,000.00	1,000.00	994.55	993.48	3.37	3.38	32.45	81.16	51.60	96.39	89.68	6.71	14.357		
1,100.00	1,100.00	1,094.32	1,093.02	3.73	3.75	32.84	86.48	55.81	103.16	95.73	7.43	13.883		
1,200.00	1,200.00	1,194.09	1,192.55	4.09	4.12	33.18	91.80	60.02	109.93	101.78	8.15	13.492		
1,300.00	1,300.00	1,293.86	1,292.09	4.45	4.49	33.48	97.12	64.23	116.71	107.84	8.87	13.165		
1,400.00	1,400.00	1,393.63	1,391.63	4.80	4.86	33.74	102.44	68.44	123.48	113.90	9.58	12.886		
1,500.00	1,500.00	1,493.40	1,491.17	5.16	5.23	33.98	107.77	72.64	130.26	119.96	10.30	12.646		
1,600.00	1,600.00	1,593.17	1,590.70	5.52	5.60	34.20	113.09	76.85	137.05	126.03	11.02	12.438		
1,700.00	1,700.00	1,692.93	1,690.24	5.88	5.97	34.40	118.41	81.06	143.83	132.09	11.74	12.255		
1,800.00	1,800.00	1,792.70	1,789.78	6.24	6.35	34.57	123.73	85.27	150.61	138.16	12.45	12.093		
1,900.00	1,900.00	1,892.47	1,889.32	6.60	6.72	34.74	129.05	89.48	157.40	144.23	13.17	11.949		
2,000.00	2,000.00	1,992.24	1,988.85	6.95	7.09	34.89	134.37	93.69	164.19	150.30	13.89	11.820		
2,100.00	2,100.00	2,092.01	2,088.39	7.31	7.46	35.02	139.69	97.90	170.98	156.37	14.61	11.704		
2,200.00	2,200.00	2,191.78	2,187.93	7.67	7.83	35.15	145.02	102.11	177.77	162.44	15.33	11.598		
2,300.00	2,299.98	2,291.62	2,287.54	8.03	8.21	34.75	150.34	106.32	183.12	167.08	16.04	11.413		
2,400.00	2,399.84	2,391.53	2,387.22	8.39	8.58	35.74	155.67	110.53	185.65	168.89	16.76	11.076		
2,500.00	2,499.45	2,491.38	2,486.84	8.75	8.95	37.38	161.00	114.74	185.45	167.97	17.48	10.610		
2,600.00	2,598.70	2,591.06	2,586.29	9.10	9.32	39.74	166.31	118.95	182.70	164.50	18.20	10.040		
2,700.00	2,697.47	2,690.44	2,685.44	9.47	9.70	42.94	171.61	123.14	177.69	158.77	18.92	9.393		
2,800.00	2,795.62	2,789.40	2,784.17	9.84	10.06	47.16	176.89	127.32	170.85	151.21	19.64	8.698		
2,900.00	2,893.06	2,887.81	2,882.36	10.23	10.43	52.65	182.14	131.47	162.84	142.46	20.38	7.989		
3,000.00	2,989.64	2,985.57	2,979.89	10.63	10.80	59.67	187.35	135.59	154.64	133.49	21.15	7.311		
3,100.00	3,085.27	3,082.55	3,076.64	11.05	11.16	68.43	192.53	139.68	147.65	125.69	21.96	6.723		
3,200.00	3,179.82	3,178.64	3,172.50	11.50	11.52	78.90	197.65	143.74	143.78	120.95	22.82	6.299		
3,228.46	3,206.51	3,205.80	3,199.60	11.64	11.62	82.13	199.10	144.88	143.55	120.47	23.08	6.219		
3,300.00	3,273.17	3,273.71	3,267.35	11.98	11.87	90.57	202.72	147.75	145.18	121.46	23.72	6.120		
3,400.00	3,365.21	3,367.64	3,361.07	12.49	12.22	102.48	207.73	151.71	153.71	129.11	24.61	6.247		
3,500.00	3,455.84	3,460.34	3,453.55	13.04	12.57	113.55	212.68	155.62	170.27	144.83	25.43	6.694		
3,506.72	3,461.88	3,466.52	3,459.72	13.08	12.59	114.24	213.01	155.88	171.66	146.18	25.49	6.736		
3,600.00	3,545.62	3,552.28	3,545.29	13.62	12.91	123.20	217.58	159.50	193.83	167.64	26.19	7.402		
3,700.00	3,635.40	3,644.23	3,637.02	14.23	13.26	130.79	222.49	163.38	221.91	195.01	26.89	8.251		
3,800.00	3,725.17	3,736.17	3,728.75	14.85	13.60	136.72	227.39	167.26	253.00	225.42	27.58	9.172		
3,900.00	3,814.95	3,828.11	3,820.48	15.50	13.94	141.38	232.29	171.14	286.13	257.86	28.27	10.122		
4,000.00	3,904.73	3,920.05	3,912.21	16.15	14.29	145.10	237.20	175.01	320.66	291.70	28.96	11.074		
4,100.00	3,994.50	4,012.00	4,003.94	16.82	14.63	148.11	242.10	178.89	356.18	326.53	29.65	12.014		
4,200.00	4,084.28	4,103.94	4,095.67	17.51	14.98	150.58	247.01	182.77	392.43	362.09	30.35	12.932		
4,300.00	4,174.06	4,195.88	4,187.40	18.20	15.32	152.64	251.91	186.65	429.23	398.18	31.05	13.824		
4,400.00	4,263.83	4,287.82	4,279.13	18.90	15.66	154.38	256.81	190.53	466.43	434.68	31.76	14.687		
4,500.00	4,353.61	4,379.77	4,370.86	19.62	16.01	155.87	261.72	194.41	503.96	471.49	32.47	15.520		
4,600.00	4,443.38	4,471.71	4,462.59	20.33	16.35	157.15	266.62	198.29	541.75	508.56	33.19	16.323		
4,700.00	4,533.16	4,563.65	4,554.32	21.06	16.69	158.27	271.53	202.17	579.74	545.82	33.91	17.095		
4,800.00	4,622.94	4,655.60	4,646.04	21.79	17.04	159.25	276.43	206.04	617.89	583.25	34.64	17.838		
4,900.00	4,712.71	4,747.54	4,737.77	22.53	17.38	160.11	281.33	209.92	656.19	620.82	35.37	18.553		

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 11-10-5H
<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 11-10-5H	<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													Rule Assigned:		Warning	
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	Warning			
5,000.00	4,802.49	4,839.48	4,829.50	23.27	17.72	160.89	286.24	213.80	694.60	658.49	36.10	19.240				
5,100.00	4,892.27	4,931.42	4,921.23	24.02	18.07	161.58	291.14	217.68	733.10	696.27	36.84	19.901				
5,200.00	4,982.04	5,023.37	5,012.96	24.77	18.41	162.20	296.05	221.56	771.69	734.12	37.58	20.536				
5,300.00	5,071.82	5,115.31	5,104.69	25.53	18.75	162.77	300.95	225.44	810.35	772.04	38.32	21.148				
5,400.00	5,161.59	5,207.25	5,196.42	26.29	19.10	163.28	305.85	229.32	849.07	810.01	39.06	21.737				
5,500.00	5,251.37	5,299.19	5,288.15	27.05	19.44	163.75	310.76	233.19	887.85	848.04	39.81	22.304				
5,600.00	5,341.15	5,391.14	5,379.88	27.81	19.79	164.18	315.66	237.07	926.67	886.12	40.55	22.850				
5,700.00	5,430.92	5,483.08	5,471.61	28.58	20.13	164.57	320.57	240.95	965.53	924.23	41.30	23.376				
5,800.00	5,520.70	5,575.02	5,563.34	29.35	20.47	164.94	325.47	244.83	1,004.43	962.38	42.05	23.884				
5,900.00	5,610.48	5,666.96	5,655.07	30.12	20.82	165.28	330.37	248.71	1,043.36	1,000.55	42.81	24.373				
6,000.00	5,700.25	5,758.91	5,746.80	30.90	21.16	165.59	335.28	252.59	1,082.32	1,038.76	43.56	24.846				
6,100.00	5,790.03	5,850.85	5,838.53	31.67	21.50	165.88	340.18	256.47	1,121.30	1,076.99	44.32	25.302				
6,200.00	5,879.81	5,942.79	5,930.26	32.45	21.85	166.15	345.08	260.35	1,160.31	1,115.24	45.07	25.742				
6,300.00	5,969.58	6,034.74	6,021.99	33.23	22.19	166.41	349.99	264.22	1,199.34	1,153.51	45.83	26.168				
6,400.00	6,059.36	6,126.68	6,113.72	34.01	22.53	166.65	354.89	268.10	1,238.39	1,191.80	46.59	26.579				
6,500.00	6,149.13	6,218.62	6,205.45	34.79	22.88	166.87	359.80	271.98	1,277.45	1,230.10	47.35	26.977				
6,600.00	6,238.91	6,310.56	6,297.18	35.58	23.22	167.08	364.70	275.86	1,316.53	1,268.42	48.12	27.362				
6,700.00	6,328.69	6,402.51	6,388.91	36.36	23.57	167.28	369.60	279.74	1,355.63	1,306.75	48.88	27.735				
6,800.00	6,418.46	6,503.82	6,490.00	37.15	23.94	167.50	375.01	283.61	1,394.69	1,344.98	49.71	28.057				
6,900.00	6,508.24	6,661.97	6,646.04	37.94	24.43	168.95	383.12	282.63	1,431.05	1,380.35	50.70	28.223				
7,000.00	6,598.02	6,798.76	6,772.06	38.73	24.74	171.47	389.37	286.64	1,464.39	1,413.03	51.36	28.513				
7,100.00	6,687.79	6,906.51	6,860.50	39.52	24.93	174.14	393.56	289.91	1,497.12	1,445.22	51.90	28.849				
7,156.65	6,738.65	6,955.60	6,896.67	39.96	25.00	175.53	395.20	291.38	1,516.22	1,464.04	52.18	29.055				
7,200.00	6,777.55	6,989.59	6,919.99	40.31	25.05	-173.09	396.23	292.68	1,531.40	1,478.99	52.41	29.220				
7,250.00	6,822.15	7,027.46	6,944.20	40.70	25.13	-160.47	397.27	293.97	1,549.50	1,496.82	52.67	29.416				
7,300.00	6,866.16	7,064.19	6,965.80	41.09	25.25	-148.89	398.17	295.22	1,568.02	1,515.08	52.95	29.616				
7,350.00	6,909.24	7,100.00	6,984.98	41.47	25.42	-138.61	398.94	296.47	1,586.74	1,533.52	53.22	29.814				
7,400.00	6,951.05	7,135.15	7,001.95	41.83	25.63	-129.64	399.58	297.72	1,605.44	1,551.92	53.52	29.999				
7,450.00	6,991.29	7,169.69	7,016.75	42.19	25.85	-121.88	400.11	298.97	1,623.90	1,570.08	53.82	30.174				
7,500.00	7,029.64	7,203.75	7,029.49	42.53	26.09	-115.19	400.52	299.97	1,641.94	1,587.81	54.13	30.333				
7,550.00	7,065.81	7,237.40	7,040.21	42.86	26.36	-109.41	400.82	300.97	1,659.35	1,604.89	54.46	30.466				
7,600.00	7,099.54	7,270.70	7,048.97	43.17	26.65	-104.42	401.02	301.97	1,675.97	1,621.15	54.82	30.572				
7,650.00	7,130.55	7,300.00	7,055.11	43.47	26.91	-100.17	401.10	302.97	1,691.64	1,636.50	55.15	30.676				
7,700.00	7,158.62	7,336.41	7,060.70	43.76	27.27	-96.40	401.10	303.97	1,706.20	1,650.59	55.61	30.683				
7,750.00	7,183.53	7,368.87	7,063.76	44.03	27.60	-93.22	400.99	304.97	1,719.52	1,663.47	56.05	30.678				
7,800.00	7,205.09	7,401.08	7,064.97	44.30	27.95	-90.53	400.78	305.97	1,731.48	1,674.95	56.53	30.631				
7,850.00	7,223.14	7,444.58	7,065.00	44.55	28.47	-88.17	400.42	306.97	1,741.84	1,684.58	57.26	30.419				
7,900.00	7,237.54	7,491.92	7,065.00	44.80	29.05	-86.31	400.02	307.97	1,750.24	1,692.11	58.12	30.112				
7,950.00	7,248.18	7,540.48	7,065.00	45.04	29.71	-84.95	399.62	308.97	1,756.51	1,697.36	59.15	29.696				
8,000.00	7,254.98	7,589.89	7,065.00	45.28	30.41	-84.09	399.20	309.97	1,760.55	1,700.27	60.27	29.209				
8,050.00	7,257.88	7,639.77	7,065.00	45.51	31.17	-83.73	398.78	310.97	1,762.28	1,700.74	61.54	28.635				
8,062.16	7,258.00	7,651.93	7,065.00	45.57	31.36	-83.71	398.68	311.97	1,762.35	1,700.48	61.87	28.487				
8,100.00	7,258.00	7,689.77	7,065.00	45.75	31.96	-83.71	398.37	312.97	1,762.35	1,699.46	62.89	28.022				
8,200.00	7,258.00	7,789.77	7,065.00	46.30	33.65	-83.71	397.53	313.97	1,762.35	1,696.48	65.86	26.757				
8,300.00	7,258.00	7,889.77	7,065.00	46.98	35.48	-83.71	396.69	314.97	1,762.35	1,693.22	69.13	25.492				
8,400.00	7,258.00	7,989.77	7,065.00	47.79	37.41	-83.71	395.85	315.97	1,762.35	1,689.69	72.66	24.256				
8,500.00	7,258.00	8,089.77	7,065.00	48.75	39.44	-83.71	395.01	316.97	1,762.35	1,685.95	76.40	23.067				
8,600.00	7,258.00	8,189.77	7,065.00	49.84	41.54	-83.71	394.17	317.97	1,762.35	1,682.01	80.33	21.938				
8,700.00	7,258.00	8,289.77	7,065.00	51.09	43.72	-83.71	393.34	318.97	1,762.35	1,677.92	84.43	20.873				
8,800.00	7,258.00	8,389.77	7,065.00	52.47	45.95	-83.71	392.50	319.97	1,762.35	1,673.68	88.67	19.875				
8,900.00	7,258.00	8,489.77	7,065.00	53.99	48.23	-83.71	391.66	320.97	1,762.35	1,669.32	93.03	18.943				
9,000.00	7,258.00	8,589.77	7,065.00	55.62	50.55	-83.71	390.82	321.97	1,762.35	1,664.85	97.50	18.075				

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 11-10-5H
<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 11-10-5H	<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: Reference		0-OWSG (Rev2) MWD Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,100.00	7,258.00	8,689.77	7,065.00	57.37	52.92	-83.71	389.98	-1,572.63	1,762.35	1,660.29	102.06	17.268			
9,200.00	7,258.00	8,789.77	7,065.00	59.21	55.31	-83.71	389.15	-1,672.63	1,762.35	1,655.65	106.70	16.517			
9,300.00	7,258.00	8,889.77	7,065.00	61.14	57.74	-83.71	388.31	-1,772.63	1,762.35	1,650.94	111.41	15.819			
9,400.00	7,258.00	8,989.77	7,065.00	63.14	60.19	-83.71	387.47	-1,872.62	1,762.35	1,646.17	116.18	15.170			
9,500.00	7,258.00	9,089.77	7,065.00	65.21	62.66	-83.71	386.63	-1,972.62	1,762.35	1,641.35	121.00	14.565			
9,600.00	7,258.00	9,189.77	7,065.00	67.33	65.15	-83.71	385.79	-2,072.62	1,762.35	1,636.48	125.87	14.001			
9,700.00	7,258.00	9,289.77	7,065.00	69.51	67.66	-83.71	384.96	-2,172.61	1,762.35	1,631.56	130.79	13.475			
9,800.00	7,258.00	9,389.77	7,065.00	71.73	70.19	-83.71	384.12	-2,272.61	1,762.35	1,626.61	135.74	12.983			
9,900.00	7,258.00	9,489.77	7,065.00	74.00	72.73	-83.71	383.28	-2,372.61	1,762.35	1,621.62	140.73	12.523			
10,000.00	7,258.00	9,589.77	7,065.00	76.30	75.28	-83.71	382.44	-2,472.60	1,762.35	1,616.60	145.74	12.092			
10,100.00	7,258.00	9,689.77	7,065.00	78.63	77.84	-83.71	381.60	-2,572.60	1,762.35	1,611.56	150.79	11.688			
10,200.00	7,258.00	9,789.77	7,065.00	80.99	80.42	-83.71	380.76	-2,672.60	1,762.35	1,606.49	155.86	11.307			
10,300.00	7,258.00	9,889.77	7,065.00	83.37	83.00	-83.71	379.93	-2,772.59	1,762.35	1,601.40	160.95	10.950			
10,400.00	7,258.00	9,989.77	7,065.00	85.78	85.59	-83.71	379.09	-2,872.59	1,762.35	1,596.29	166.06	10.613			
10,500.00	7,258.00	10,089.77	7,065.00	88.21	88.19	-83.71	378.25	-2,972.58	1,762.35	1,591.16	171.19	10.295			
10,600.00	7,258.00	10,189.77	7,065.00	90.65	90.80	-83.71	377.41	-3,072.58	1,762.35	1,586.01	176.34	9.994			
10,700.00	7,258.00	10,289.77	7,065.00	93.12	93.42	-83.71	376.57	-3,172.58	1,762.35	1,580.84	181.50	9.710			
10,800.00	7,258.00	10,389.77	7,065.00	95.59	96.03	-83.71	375.74	-3,272.57	1,762.35	1,575.67	186.68	9.440			
10,900.00	7,258.00	10,489.77	7,065.00	98.09	98.66	-83.71	374.90	-3,372.57	1,762.35	1,570.48	191.87	9.185			
11,000.00	7,258.00	10,589.77	7,065.00	100.59	101.29	-83.71	374.06	-3,472.57	1,762.35	1,565.28	197.07	8.943			
11,100.00	7,258.00	10,689.77	7,065.00	103.11	103.93	-83.71	373.22	-3,572.56	1,762.35	1,560.06	202.29	8.712			
11,200.00	7,258.00	10,789.77	7,065.00	105.64	106.56	-83.71	372.38	-3,672.56	1,762.35	1,554.84	207.51	8.493			
11,300.00	7,258.00	10,889.77	7,065.00	108.18	109.21	-83.71	371.54	-3,772.56	1,762.35	1,549.61	212.74	8.284			
11,400.00	7,258.00	10,989.77	7,065.00	110.73	111.86	-83.71	370.71	-3,872.55	1,762.35	1,544.36	217.98	8.085			
11,500.00	7,258.00	11,089.77	7,065.00	113.29	114.51	-83.71	369.87	-3,972.55	1,762.35	1,539.11	223.23	7.895			
11,600.00	7,258.00	11,189.77	7,065.00	115.85	117.16	-83.71	369.03	-4,072.55	1,762.35	1,533.86	228.49	7.713			
11,700.00	7,258.00	11,289.77	7,065.00	118.43	119.82	-83.71	368.19	-4,172.54	1,762.35	1,528.59	233.76	7.539			
11,800.00	7,258.00	11,389.77	7,065.00	121.01	122.48	-83.71	367.35	-4,272.54	1,762.35	1,523.32	239.03	7.373			
11,900.00	7,258.00	11,489.77	7,065.00	123.59	125.14	-83.71	366.52	-4,372.54	1,762.35	1,518.04	244.31	7.214			
12,000.00	7,258.00	11,589.77	7,065.00	126.18	127.80	-83.71	365.68	-4,472.53	1,762.35	1,512.76	249.59	7.061			
12,100.00	7,258.00	11,689.77	7,065.00	128.78	130.47	-83.71	364.84	-4,572.53	1,762.35	1,507.47	254.88	6.915			
12,200.00	7,258.00	11,789.77	7,065.00	131.39	133.14	-83.71	364.00	-4,672.53	1,762.35	1,502.18	260.17	6.774			
12,300.00	7,258.00	11,889.77	7,065.00	133.99	135.81	-83.71	363.16	-4,772.52	1,762.35	1,496.88	265.47	6.639			
12,400.00	7,258.00	11,989.77	7,065.00	136.61	138.49	-83.71	362.33	-4,872.52	1,762.35	1,491.58	270.77	6.509			
12,500.00	7,258.00	12,089.77	7,065.00	139.22	141.16	-83.71	361.49	-4,972.51	1,762.35	1,486.27	276.08	6.383			
12,600.00	7,258.00	12,189.77	7,065.00	141.84	143.84	-83.71	360.65	-5,072.51	1,762.35	1,480.96	281.39	6.263			
12,700.00	7,258.00	12,289.77	7,065.00	144.47	146.52	-83.71	359.81	-5,172.51	1,762.35	1,475.64	286.71	6.147			
12,800.00	7,258.00	12,389.77	7,065.00	147.10	149.20	-83.71	358.97	-5,272.50	1,762.35	1,470.32	292.02	6.035			
12,900.00	7,258.00	12,489.77	7,065.00	149.73	151.88	-83.71	358.13	-5,372.50	1,762.35	1,465.00	297.35	5.927			
13,000.00	7,258.00	12,589.77	7,065.00	152.37	154.56	-83.71	357.30	-5,472.50	1,762.35	1,459.68	302.67	5.823			
13,100.00	7,258.00	12,689.77	7,065.00	155.01	157.25	-83.71	356.46	-5,572.49	1,762.35	1,454.35	308.00	5.722			
13,200.00	7,258.00	12,789.77	7,065.00	157.65	159.93	-83.71	355.62	-5,672.49	1,762.35	1,449.02	313.33	5.625			
13,300.00	7,258.00	12,889.77	7,065.00	160.29	162.62	-83.71	354.78	-5,772.49	1,762.35	1,443.68	318.66	5.530			
13,400.00	7,258.00	12,989.77	7,065.00	162.94	165.31	-83.71	353.94	-5,872.48	1,762.35	1,438.35	324.00	5.439			
13,500.00	7,258.00	13,089.77	7,065.00	165.59	168.00	-83.71	353.11	-5,972.48	1,762.35	1,433.01	329.34	5.351			
13,600.00	7,258.00	13,189.77	7,065.00	168.24	170.69	-83.71	352.27	-6,072.48	1,762.35	1,427.67	334.68	5.266			
13,700.00	7,258.00	13,289.77	7,065.00	170.89	173.38	-83.71	351.43	-6,172.47	1,762.35	1,422.32	340.02	5.183			
13,800.00	7,258.00	13,389.77	7,065.00	173.55	176.07	-83.71	350.59	-6,272.47	1,762.35	1,416.98	345.37	5.103			
13,900.00	7,258.00	13,489.77	7,065.00	176.21	178.76	-83.71	349.75	-6,372.47	1,762.35	1,411.63	350.72	5.025			
14,000.00	7,258.00	13,589.77	7,065.00	178.87	181.46	-83.71	348.92	-6,472.46	1,762.35	1,406.28	356.07	4.949			
14,100.00	7,258.00	13,689.77	7,065.00	181.53	184.15	-83.71	348.08	-6,572.46	1,762.35	1,400.93	361.42	4.876			
14,200.00	7,258.00	13,789.77	7,065.00	184.19	186.85	-83.71	347.24	-6,672.45	1,762.35	1,395.57	366.77	4.805			

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 11-10-5H
<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 11-10-5H	<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		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	7,258.00	13,889.77	7,065.00	186.86	189.54	-83.71	346.40	-6,772.45	1,762.35	1,390.22	372.13	4.736			
14,400.00	7,258.00	13,989.77	7,065.00	189.53	192.24	-83.71	345.56	-6,872.45	1,762.35	1,384.86	377.48	4.669			
14,500.00	7,258.00	14,089.77	7,065.00	192.20	194.94	-83.71	344.72	-6,972.44	1,762.35	1,379.50	382.84	4.603			
14,600.00	7,258.00	14,189.77	7,065.00	194.87	197.64	-83.71	343.89	-7,072.44	1,762.35	1,374.14	388.20	4.540			
14,700.00	7,258.00	14,289.77	7,065.00	197.54	200.34	-83.71	343.05	-7,172.44	1,762.35	1,368.78	393.56	4.478			
14,800.00	7,258.00	14,389.77	7,065.00	200.21	203.03	-83.71	342.21	-7,272.43	1,762.35	1,363.42	398.93	4.418			
14,900.00	7,258.00	14,489.77	7,065.00	202.89	205.73	-83.71	341.37	-7,372.43	1,762.35	1,358.06	404.29	4.359			
15,000.00	7,258.00	14,589.77	7,065.00	205.56	208.44	-83.71	340.53	-7,472.43	1,762.35	1,352.69	409.66	4.302			
15,100.00	7,258.00	14,689.77	7,065.00	208.24	211.14	-83.71	339.70	-7,572.42	1,762.35	1,347.32	415.02	4.246			
15,200.00	7,258.00	14,789.77	7,065.00	210.92	213.84	-83.71	338.86	-7,672.42	1,762.35	1,341.96	420.39	4.192			
15,300.00	7,258.00	14,889.77	7,065.00	213.60	216.54	-83.71	338.02	-7,772.42	1,762.35	1,336.59	425.76	4.139			
15,400.00	7,258.00	14,989.77	7,065.00	216.28	219.24	-83.71	337.18	-7,872.41	1,762.35	1,331.22	431.13	4.088			
15,500.00	7,258.00	15,089.77	7,065.00	218.96	221.95	-83.71	336.34	-7,972.41	1,762.35	1,325.85	436.50	4.037			
15,600.00	7,258.00	15,189.77	7,065.00	221.64	224.65	-83.71	335.51	-8,072.41	1,762.35	1,320.48	441.87	3.988			
15,700.00	7,258.00	15,289.77	7,065.00	224.32	227.35	-83.71	334.67	-8,172.40	1,762.35	1,315.10	447.24	3.940			
15,800.00	7,258.00	15,389.77	7,065.00	227.01	230.06	-83.71	333.83	-8,272.40	1,762.35	1,309.73	452.62	3.894			
15,818.99	7,258.00	15,408.76	7,065.00	227.52	230.57	-83.71	333.67	-8,291.39	1,762.35	1,308.71	453.64	3.885			
15,837.79	7,258.00	15,427.56	7,065.00	228.02	231.08	-83.71	333.51	-8,310.19	1,762.35	1,307.70	454.65	3.876 SF			

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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 Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	0.01	61.94	0.00	61.94	61.65	0.29	215.982		
100.00	100.00	100.00	100.00	0.14	0.14	0.01	61.94	0.00	61.94	60.94	1.00	61.709		
200.00	200.00	200.00	200.00	0.50	0.50	0.01	61.94	0.00	61.94	60.22	1.72	35.997		
300.00	300.00	300.00	300.00	0.86	0.86	0.01	61.94	0.00	61.94	59.50	2.44	25.410		
400.00	400.00	400.00	400.00	1.22	1.22	0.01	61.94	0.00	61.94	58.78	3.15	19.635		
500.00	500.00	500.00	500.00	1.58	1.58	0.01	61.94	0.00	61.94	58.07	3.87	15.999		
600.00	600.00	600.00	600.00	1.94	1.94	0.01	61.94	0.00	61.94	57.35	4.59	13.499		
700.00	700.00	700.00	700.00	2.29	2.29	0.01	61.94	0.00	61.94	56.63	5.31	11.675		
800.00	800.00	800.00	800.00	2.65	2.65	0.01	61.94	0.00	61.94	55.92	6.02	10.285		
900.00	900.00	900.00	900.00	3.01	3.01	0.01	61.94	0.00	61.94	55.20	6.74	9.191		
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	0.01	61.94	0.00	61.94	54.48	7.46	8.307		
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	0.01	61.94	0.00	61.94	53.77	8.17	7.578		
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	0.01	61.94	0.00	61.94	53.04	8.89	7.018 ES		
1,203.34	1,203.34	1,203.34	1,203.34	4.10	4.10	0.01	61.94	0.00	61.94	52.32	9.59	6.852		
1,300.00	1,300.00	1,298.96	1,298.96	4.45	4.44	0.09	62.35	0.10	62.35	51.60	10.28	7.041		
1,400.00	1,400.00	1,396.78	1,396.72	4.80	4.79	0.75	65.60	0.86	65.69	50.88	10.95	7.521		
1,500.00	1,500.00	1,494.25	1,493.96	5.16	5.14	1.90	72.07	2.39	72.36	50.16	11.62	8.244		
1,600.00	1,600.00	1,591.17	1,590.36	5.52	5.49	3.27	81.69	4.66	82.39	49.44	12.26	9.172		
1,700.00	1,700.00	1,687.30	1,685.60	5.88	5.84	4.64	94.36	7.66	95.76	48.72	12.89	10.272		
1,800.00	1,800.00	1,782.45	1,779.39	6.24	6.20	5.89	109.96	11.34	112.44	48.00	13.50	11.523		
1,900.00	1,900.00	1,876.43	1,871.45	6.60	6.57	6.97	128.33	15.68	132.40	47.28	14.09	12.904		
2,000.00	2,000.00	1,969.05	1,961.53	6.95	6.96	7.87	149.30	20.63	155.55	46.56	14.67	14.398		
2,100.00	2,100.00	2,060.17	2,049.41	7.31	7.35	8.61	172.69	26.16	181.84	45.84	15.22	15.888		
2,200.00	2,200.00	2,149.63	2,134.92	7.67	7.77	9.22	198.29	32.20	211.16	45.12	15.76	17.268		
2,300.00	2,299.98	2,237.83	2,218.37	8.03	8.20	8.92	226.05	38.76	241.82	44.40	16.29	18.548		
2,400.00	2,399.84	2,325.26	2,300.19	8.39	8.66	9.40	256.03	45.84	272.12	43.68	16.84	19.690		
2,500.00	2,499.45	2,411.94	2,380.34	8.75	9.14	9.89	288.14	53.42	302.07	42.96	17.31	20.849		
2,600.00	2,598.70	2,500.00	2,460.71	9.10	9.67	10.40	323.16	61.70	331.65	42.24	17.80	21.883		
2,700.00	2,697.47	2,583.16	2,535.56	9.47	10.20	10.88	358.42	70.02	360.83	41.52	18.30	22.847		
2,800.00	2,795.62	2,667.75	2,610.58	9.84	10.77	11.38	396.45	79.00	389.62	40.80	18.80	23.744		
2,900.00	2,893.06	2,751.68	2,683.85	10.23	11.37	11.88	436.29	88.42	418.00	40.08	19.26	24.578		
3,000.00	2,989.64	2,835.00	2,755.36	10.63	12.00	12.37	477.89	98.24	445.96	39.36	19.75	25.344		
3,100.00	3,085.27	2,917.70	2,825.09	11.05	12.66	12.87	521.17	108.46	473.48	38.64	20.23	26.056		
3,200.00	3,179.82	3,000.00	2,893.18	11.50	13.34	13.37	566.16	119.09	500.56	37.92	20.82	26.578		
3,300.00	3,273.17	3,081.40	2,959.18	11.98	14.06	13.86	612.51	130.04	527.19	37.20	21.56	26.801		
3,400.00	3,365.21	3,166.85	3,026.99	12.49	14.84	14.39	663.11	141.99	553.38	36.48	22.45	26.799		
3,500.00	3,455.84	3,258.25	3,098.68	13.04	15.71	14.98	718.29	155.02	577.85	35.76	23.36	26.692		
3,506.72	3,461.88	3,264.77	3,103.79	13.08	15.77	15.02	722.23	155.95	579.39	35.04	24.29	26.613		
3,600.00	3,545.62	3,355.34	3,174.83	13.62	16.65	15.72	776.90	168.86	600.59	34.32	25.24	26.523		
3,700.00	3,635.40	3,452.43	3,250.99	14.23	17.60	16.41	835.51	182.70	623.42	33.60	26.208	26.095		
3,800.00	3,725.17	3,549.52	3,327.14	14.85	18.57	17.06	894.12	196.55	646.32	32.88	27.18	26.208		
3,900.00	3,814.95	3,646.61	3,403.30	15.50	19.54	17.66	952.74	210.39	669.30	32.16	28.18	26.095		
4,000.00	3,904.73	3,743.70	3,479.46	16.15	20.52	18.22	1,011.35	224.23	692.34	31.44	29.19	25.980		
4,100.00	3,994.50	3,840.79	3,555.61	16.82	21.51	18.75	1,069.96	238.08	715.44	30.72	30.15	25.863		
4,200.00	4,084.28	3,937.88	3,631.77	17.51	22.51	19.24	1,128.57	251.92	738.60	29.99	31.15	25.746		
4,300.00	4,174.06	4,034.97	3,707.92	18.20	23.52	19.70	1,187.18	265.76	761.80	29.27	32.15	25.630		
4,400.00	4,263.83	4,132.06	3,784.08	18.90	24.52	20.14	1,245.79	279.61	785.05	28.55	33.15	25.514		
4,500.00	4,353.61	4,229.16	3,860.23	19.62	25.54	20.55	1,304.40	293.45	808.34	27.83	34.15	25.400		
4,600.00	4,443.38	4,326.25	3,936.39	20.33	26.55	20.93	1,363.02	307.29	831.67	27.11	35.15	25.286		
4,700.00	4,533.16	4,423.34	4,012.55	21.06	27.58	21.30	1,421.63	321.13	855.03	26.39	36.15	25.172		
4,800.00	4,622.94	4,520.43	4,088.70	21.79	28.60	21.65	1,480.24	334.98	878.42	25.67	37.15	25.058		
4,900.00	4,712.71	4,617.52	4,164.86	22.53	29.63	21.98	1,538.85	348.82	901.84	24.95	38.15	24.944		

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 11-10-5H
<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 11-10-5H	<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 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	4,802.49	4,714.61	4,241.01	23.27	30.65	22.29	1,597.46	362.66	925.29	888.70	36.59	25.288		
5,100.00	4,892.27	4,811.70	4,317.17	24.02	31.69	22.59	1,656.07	376.51	948.76	911.08	37.68	25.177		
5,200.00	4,982.04	4,908.79	4,393.33	24.77	32.72	22.87	1,714.69	390.35	972.26	933.48	38.78	25.068		
5,300.00	5,071.82	5,005.88	4,469.48	25.53	33.75	23.14	1,773.30	404.19	995.78	955.89	39.89	24.962		
5,400.00	5,161.59	5,102.97	4,545.64	26.29	34.79	23.40	1,831.91	418.04	1,019.31	978.31	41.01	24.858		
5,500.00	5,251.37	5,200.07	4,621.79	27.05	35.83	23.64	1,890.52	431.88	1,042.87	1,000.74	42.12	24.757		
5,600.00	5,341.15	5,297.16	4,697.95	27.81	36.87	23.88	1,949.13	445.72	1,066.44	1,023.19	43.25	24.658		
5,700.00	5,430.92	5,394.25	4,774.11	28.58	37.91	24.10	2,007.74	459.56	1,090.03	1,045.65	44.38	24.561		
5,800.00	5,520.70	5,491.34	4,850.26	29.35	38.95	24.32	2,066.36	473.41	1,113.64	1,068.12	45.52	24.467		
5,900.00	5,610.48	5,588.43	4,926.42	30.12	40.00	24.52	2,124.97	487.25	1,137.25	1,090.60	46.66	24.375		
6,000.00	5,700.25	5,685.52	5,002.57	30.90	41.04	24.72	2,183.58	501.09	1,160.89	1,113.08	47.80	24.286		
6,100.00	5,790.03	5,782.61	5,078.73	31.67	42.09	24.91	2,242.19	514.94	1,184.53	1,135.58	48.95	24.199		
6,200.00	5,879.81	5,879.70	5,154.89	32.45	43.13	25.09	2,300.80	528.78	1,208.19	1,158.08	50.10	24.114		
6,300.00	5,969.58	5,976.79	5,231.04	33.23	44.18	25.27	2,359.41	542.62	1,231.85	1,180.59	51.26	24.032		
6,400.00	6,059.36	6,073.89	5,307.20	34.01	45.23	25.44	2,418.02	556.47	1,255.53	1,203.11	52.42	23.952		
6,500.00	6,149.13	6,170.98	5,383.35	34.79	46.28	25.60	2,476.64	570.31	1,279.22	1,225.64	53.58	23.874		
6,600.00	6,238.91	6,268.07	5,459.51	35.58	47.33	25.76	2,535.25	584.15	1,302.92	1,248.17	54.75	23.799		
6,700.00	6,328.69	6,365.16	5,535.67	36.36	48.38	25.91	2,593.86	597.99	1,326.62	1,270.70	55.92	23.725		
6,800.00	6,418.46	6,462.25	5,611.82	37.15	49.43	26.05	2,652.47	611.84	1,350.34	1,293.25	57.09	23.653		
6,900.00	6,508.24	6,559.34	5,687.98	37.94	50.48	26.19	2,711.08	625.68	1,374.06	1,315.79	58.26	23.584		
7,000.00	6,598.02	6,656.43	5,764.13	38.73	51.53	26.33	2,769.69	639.52	1,397.79	1,338.35	59.44	23.516		
7,100.00	6,687.79	6,753.52	5,840.29	39.52	52.58	26.46	2,828.31	653.37	1,421.53	1,360.91	60.62	23.450		
7,156.65	6,738.65	6,808.53	5,883.43	39.96	53.18	26.53	2,861.51	661.21	1,434.98	1,373.69	61.29	23.413		
7,200.00	6,777.55	6,850.35	5,916.24	40.31	53.63	34.42	2,886.76	667.17	1,446.00	1,384.17	61.84	23.385		
7,250.00	6,822.15	6,897.71	5,953.39	40.70	54.15	42.96	2,915.35	673.92	1,460.50	1,397.95	62.55	23.351		
7,300.00	6,866.16	6,943.79	5,989.53	41.09	54.65	50.43	2,943.17	680.49	1,476.84	1,413.50	63.34	23.316		
7,350.00	6,909.24	6,988.24	6,024.39	41.47	55.13	56.57	2,970.00	686.83	1,494.98	1,430.76	64.22	23.279		
7,400.00	6,951.05	7,030.72	6,057.71	41.83	55.59	61.38	2,995.64	692.89	1,514.89	1,449.71	65.18	23.242		
7,450.00	6,991.29	7,070.90	6,089.23	42.19	56.02	64.94	3,019.90	698.62	1,536.51	1,470.30	66.21	23.205		
7,500.00	7,029.64	7,108.48	6,118.71	42.53	56.43	67.40	3,042.59	703.98	1,559.81	1,492.48	67.32	23.169		
7,550.00	7,065.81	7,143.18	6,145.93	42.86	56.81	68.89	3,063.53	708.92	1,584.72	1,516.22	68.50	23.134		
7,600.00	7,099.54	7,174.73	6,170.67	43.17	57.15	69.51	3,082.58	713.42	1,611.20	1,541.46	69.74	23.103		
7,650.00	7,130.55	7,202.88	6,192.76	43.47	57.46	69.34	3,099.57	717.44	1,639.15	1,568.12	71.03	23.077		
7,700.00	7,158.62	7,227.44	6,212.02	43.76	57.72	68.43	3,114.40	720.94	1,668.46	1,596.11	72.36	23.059		
7,750.00	7,183.53	7,248.20	6,228.30	44.03	57.95	66.83	3,126.93	723.90	1,699.02	1,625.31	73.71	23.051		
7,800.00	7,205.09	7,265.01	6,241.49	44.30	58.13	64.58	3,137.08	726.29	1,730.66	1,655.60	75.07	23.054		
7,850.00	7,223.14	7,277.75	6,251.48	44.55	58.27	61.73	3,144.77	728.11	1,763.22	1,686.80	76.42	23.072		
7,900.00	7,237.54	9,523.33	7,252.00	44.80	69.83	88.61	3,903.20	-404.96	1,761.66	1,687.95	73.71	23.899		
7,950.00	7,248.18	9,571.88	7,252.00	45.04	69.89	89.25	3,902.78	-453.51	1,756.36	1,681.24	75.12	23.381		
8,000.00	7,254.98	9,621.29	7,252.00	45.28	69.97	89.63	3,902.34	-502.92	1,753.00	1,676.46	76.54	22.903		
8,050.00	7,257.88	9,671.17	7,252.00	45.51	70.06	89.80	3,901.90	-552.79	1,751.56	1,673.59	77.98	22.462		
8,062.16	7,258.00	9,683.33	7,252.00	45.57	70.09	89.80	3,901.79	-564.95	1,751.50	1,673.18	78.32	22.362		
8,100.00	7,258.00	9,721.17	7,252.00	45.75	70.17	89.80	3,901.46	-602.79	1,751.49	1,672.06	79.43	22.051		
8,200.00	7,258.00	9,821.17	7,252.00	46.30	70.43	89.80	3,900.58	-702.78	1,751.44	1,668.90	82.54	21.219		
8,300.00	7,258.00	9,921.17	7,252.00	46.98	70.78	89.80	3,899.70	-802.78	1,751.40	1,665.51	85.89	20.390		
8,400.00	7,258.00	10,021.17	7,252.00	47.79	71.21	89.80	3,898.82	-902.78	1,751.36	1,661.89	89.46	19.576		
8,500.00	7,258.00	10,121.17	7,252.00	48.75	71.74	89.80	3,897.93	-1,002.77	1,751.31	1,658.09	93.22	18.786		
8,600.00	7,258.00	10,221.17	7,252.00	49.84	72.40	89.80	3,897.05	-1,102.77	1,751.27	1,654.12	97.15	18.026		
8,700.00	7,258.00	10,321.17	7,252.00	51.09	73.19	89.80	3,896.17	-1,202.77	1,751.23	1,650.00	101.23	17.300		
8,800.00	7,258.00	10,421.17	7,252.00	52.47	74.13	89.80	3,895.29	-1,302.76	1,751.18	1,645.75	105.43	16.610		
8,900.00	7,258.00	10,521.17	7,252.00	53.99	75.23	89.80	3,894.41	-1,402.76	1,751.14	1,641.39	109.75	15.956		
9,000.00	7,258.00	10,621.17	7,252.00	55.62	76.48	89.80	3,893.53	-1,502.75	1,751.10	1,636.93	114.16	15.338		

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 11-10-5H
<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 11-10-5H	<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: Reference		0-OWSG (Rev2) MWD Offset				Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,100.00	7,258.00	10,721.17	7,252.00	57.37	77.89	89.80	3,892.65	-1,602.75	1,751.05	1,632.38	118.67	14.756			
9,200.00	7,258.00	10,821.17	7,252.00	59.21	79.45	89.80	3,891.76	-1,702.75	1,751.01	1,627.76	123.25	14.207			
9,300.00	7,258.00	10,921.17	7,252.00	61.14	81.14	89.80	3,890.88	-1,802.74	1,750.97	1,623.06	127.91	13.689			
9,400.00	7,258.00	11,021.17	7,252.00	63.14	82.94	89.80	3,890.00	-1,902.74	1,750.92	1,618.30	132.62	13.202			
9,500.00	7,258.00	11,121.17	7,252.00	65.21	84.84	89.80	3,889.12	-2,002.73	1,750.88	1,613.49	137.39	12.744			
9,600.00	7,258.00	11,221.17	7,252.00	67.33	86.83	89.80	3,888.24	-2,102.73	1,750.84	1,608.63	142.21	12.311			
9,700.00	7,258.00	11,321.17	7,252.00	69.51	88.89	89.80	3,887.36	-2,202.73	1,750.79	1,603.72	147.08	11.904			
9,800.00	7,258.00	11,421.17	7,252.00	71.73	91.02	89.80	3,886.48	-2,302.72	1,750.75	1,598.77	151.98	11.520			
9,900.00	7,258.00	11,521.17	7,252.00	74.00	93.20	89.80	3,885.59	-2,402.72	1,750.71	1,593.79	156.92	11.157			
10,000.00	7,258.00	11,621.17	7,252.00	76.30	95.43	89.80	3,884.71	-2,502.71	1,750.66	1,588.77	161.89	10.814			
10,100.00	7,258.00	11,721.17	7,252.00	78.63	97.69	89.80	3,883.83	-2,602.71	1,750.62	1,583.73	166.90	10.489			
10,200.00	7,258.00	11,821.17	7,252.00	80.99	100.00	89.80	3,882.95	-2,702.71	1,750.58	1,578.65	171.93	10.182			
10,300.00	7,258.00	11,921.17	7,252.00	83.37	102.33	89.80	3,882.07	-2,802.70	1,750.53	1,573.55	176.98	9.891			
10,400.00	7,258.00	12,021.17	7,252.00	85.78	104.69	89.80	3,881.19	-2,902.70	1,750.49	1,568.43	182.06	9.615			
10,500.00	7,258.00	12,121.17	7,252.00	88.21	107.08	89.80	3,880.31	-3,002.70	1,750.45	1,563.29	187.15	9.353			
10,600.00	7,258.00	12,221.17	7,252.00	90.65	109.48	89.80	3,879.42	-3,102.69	1,750.40	1,558.13	192.27	9.104			
10,700.00	7,258.00	12,321.17	7,252.00	93.12	111.91	89.80	3,878.54	-3,202.69	1,750.36	1,552.96	197.41	8.867			
10,800.00	7,258.00	12,421.17	7,252.00	95.59	114.35	89.80	3,877.66	-3,302.68	1,750.32	1,547.76	202.56	8.641			
10,900.00	7,258.00	12,521.17	7,252.00	98.09	116.81	89.80	3,876.78	-3,402.68	1,750.27	1,542.55	207.72	8.426			
11,000.00	7,258.00	12,621.17	7,252.00	100.59	119.29	89.80	3,875.90	-3,502.68	1,750.23	1,537.33	212.90	8.221			
11,100.00	7,258.00	12,721.17	7,252.00	103.11	121.77	89.80	3,875.02	-3,602.67	1,750.19	1,532.09	218.10	8.025			
11,200.00	7,258.00	12,821.17	7,252.00	105.64	124.27	89.80	3,874.14	-3,702.67	1,750.14	1,526.85	223.30	7.838			
11,300.00	7,258.00	12,921.17	7,252.00	108.18	126.78	89.80	3,873.26	-3,802.66	1,750.10	1,521.59	228.52	7.659			
11,400.00	7,258.00	13,021.17	7,252.00	110.73	129.30	89.80	3,872.37	-3,902.66	1,750.06	1,516.32	233.74	7.487			
11,500.00	7,258.00	13,121.17	7,252.00	113.29	131.83	89.80	3,871.49	-4,002.66	1,750.02	1,511.04	238.98	7.323			
11,600.00	7,258.00	13,221.17	7,252.00	115.85	134.37	89.80	3,870.61	-4,102.65	1,749.97	1,505.75	244.22	7.165			
11,700.00	7,258.00	13,321.17	7,252.00	118.43	136.92	89.80	3,869.73	-4,202.65	1,749.93	1,500.45	249.48	7.014			
11,800.00	7,258.00	13,421.17	7,252.00	121.01	139.47	89.80	3,868.85	-4,302.64	1,749.89	1,495.15	254.74	6.869			
11,900.00	7,258.00	13,521.17	7,252.00	123.59	142.03	89.80	3,867.97	-4,402.64	1,749.84	1,489.84	260.01	6.730			
12,000.00	7,258.00	13,621.17	7,252.00	126.18	144.60	89.80	3,867.09	-4,502.64	1,749.80	1,484.52	265.28	6.596			
12,100.00	7,258.00	13,721.17	7,252.00	128.78	147.17	89.80	3,866.20	-4,602.63	1,749.76	1,479.19	270.56	6.467			
12,200.00	7,258.00	13,821.17	7,252.00	131.39	149.75	89.80	3,865.32	-4,702.63	1,749.71	1,473.86	275.85	6.343			
12,300.00	7,258.00	13,921.17	7,252.00	133.99	152.33	89.80	3,864.44	-4,802.63	1,749.67	1,468.52	281.15	6.223			
12,400.00	7,258.00	14,021.17	7,252.00	136.61	154.92	89.80	3,863.56	-4,902.62	1,749.63	1,463.18	286.45	6.108			
12,500.00	7,258.00	14,121.17	7,252.00	139.22	157.52	89.80	3,862.68	-5,002.62	1,749.58	1,457.83	291.75	5.997			
12,600.00	7,258.00	14,221.17	7,252.00	141.84	160.12	89.80	3,861.80	-5,102.61	1,749.54	1,452.48	297.06	5.889			
12,700.00	7,258.00	14,321.17	7,252.00	144.47	162.72	89.80	3,860.92	-5,202.61	1,749.50	1,447.12	302.38	5.786			
12,800.00	7,258.00	14,421.17	7,252.00	147.10	165.33	89.80	3,860.03	-5,302.61	1,749.45	1,441.75	307.70	5.686			
12,900.00	7,258.00	14,521.17	7,252.00	149.73	167.94	89.80	3,859.15	-5,402.60	1,749.41	1,436.39	313.02	5.589			
13,000.00	7,258.00	14,621.17	7,252.00	152.37	170.55	89.80	3,858.27	-5,502.60	1,749.37	1,431.02	318.35	5.495			
13,100.00	7,258.00	14,721.17	7,252.00	155.01	173.17	89.80	3,857.39	-5,602.59	1,749.32	1,425.64	323.68	5.404			
13,200.00	7,258.00	14,821.17	7,252.00	157.65	175.79	89.80	3,856.51	-5,702.59	1,749.28	1,420.26	329.02	5.317			
13,300.00	7,258.00	14,921.17	7,252.00	160.29	178.42	89.80	3,855.63	-5,802.59	1,749.24	1,414.88	334.36	5.232			
13,400.00	7,258.00	15,021.17	7,252.00	162.94	181.04	89.80	3,854.75	-5,902.58	1,749.19	1,409.49	339.70	5.149			
13,500.00	7,258.00	15,121.17	7,252.00	165.59	183.67	89.80	3,853.86	-6,002.58	1,749.15	1,404.10	345.05	5.069			
13,600.00	7,258.00	15,221.17	7,252.00	168.24	186.31	89.80	3,852.98	-6,102.57	1,749.11	1,398.71	350.39	4.992			
13,700.00	7,258.00	15,321.17	7,252.00	170.89	188.94	89.80	3,852.10	-6,202.57	1,749.06	1,393.32	355.75	4.917			
13,800.00	7,258.00	15,421.17	7,252.00	173.55	191.58	89.80	3,851.22	-6,302.57	1,749.02	1,387.92	361.10	4.844			
13,900.00	7,258.00	15,521.17	7,252.00	176.21	194.22	89.80	3,850.34	-6,402.56	1,748.98	1,382.52	366.46	4.773			
14,000.00	7,258.00	15,621.17	7,252.00	178.87	196.86	89.80	3,849.46	-6,502.56	1,748.93	1,377.12	371.82	4.704			
14,100.00	7,258.00	15,721.17	7,252.00	181.53	199.51	89.80	3,848.58	-6,602.56	1,748.89	1,371.71	377.18	4.637			
14,200.00	7,258.00	15,821.17	7,252.00	184.19	202.16	89.80	3,847.69	-6,702.55	1,748.85	1,366.31	382.54	4.572			

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 11-10-5H
<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 11-10-5H	<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		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	7,258.00	15,921.17	7,252.00	186.86	204.80	89.80	3,846.81	-6,802.55	1,748.80	1,360.90	387.91	4.508		
14,400.00	7,258.00	16,021.17	7,252.00	189.53	207.46	89.80	3,845.93	-6,902.54	1,748.76	1,355.49	393.27	4.447		
14,500.00	7,258.00	16,121.17	7,252.00	192.20	210.11	89.80	3,845.05	-7,002.54	1,748.72	1,350.07	398.65	4.387		
14,600.00	7,258.00	16,221.17	7,252.00	194.87	212.76	89.80	3,844.17	-7,102.54	1,748.67	1,344.66	404.02	4.328		
14,700.00	7,258.00	16,321.17	7,252.00	197.54	215.42	89.80	3,843.29	-7,202.53	1,748.63	1,339.24	409.39	4.271		
14,800.00	7,258.00	16,421.17	7,252.00	200.21	218.08	89.80	3,842.41	-7,302.53	1,748.59	1,333.82	414.77	4.216		
14,900.00	7,258.00	16,521.17	7,252.00	202.89	220.73	89.80	3,841.52	-7,402.52	1,748.54	1,328.40	420.15	4.162		
15,000.00	7,258.00	16,621.17	7,252.00	205.56	223.40	89.80	3,840.64	-7,502.52	1,748.50	1,322.98	425.52	4.109		
15,100.00	7,258.00	16,721.17	7,252.00	208.24	226.06	89.80	3,839.76	-7,602.52	1,748.46	1,317.55	430.91	4.058		
15,200.00	7,258.00	16,821.17	7,252.00	210.92	228.72	89.80	3,838.88	-7,702.51	1,748.41	1,312.13	436.29	4.007		
15,300.00	7,258.00	16,921.17	7,252.00	213.60	231.39	89.80	3,838.00	-7,802.51	1,748.37	1,306.70	441.67	3.959		
15,400.00	7,258.00	17,021.17	7,252.00	216.28	234.05	89.80	3,837.12	-7,902.50	1,748.33	1,301.27	447.06	3.911		
15,500.00	7,258.00	17,121.17	7,252.00	218.96	236.72	89.80	3,836.24	-8,002.50	1,748.29	1,295.84	452.44	3.864		
15,600.00	7,258.00	17,221.17	7,252.00	221.64	239.39	89.80	3,835.35	-8,102.50	1,748.24	1,290.41	457.83	3.819		
15,700.00	7,258.00	17,321.17	7,252.00	224.32	242.06	89.80	3,834.47	-8,202.49	1,748.20	1,284.98	463.22	3.774		
15,775.22	7,258.00	17,395.63	7,252.00	226.34	244.05	89.80	3,833.82	-8,276.95	1,748.17	1,280.89	467.28	3.741		
15,800.00	7,258.00	17,395.63	7,252.00	227.01	244.05	89.80	3,833.82	-8,276.95	1,748.34	1,279.69	468.65	3.731		
15,837.79	7,258.00	17,395.63	7,252.00	228.02	244.05	89.80	3,833.82	-8,276.95	1,749.28	1,278.72	470.57	3.717 SF		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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		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			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.36	0.00	47.36						
100.00	100.00	100.00	100.00	0.14	0.14	0.00	0.00	0.00	47.36	0.00	47.36	47.07	0.29	165.141			
200.00	200.00	200.00	200.00	0.50	0.50	0.00	0.00	0.00	47.36	0.00	47.36	46.36	1.00	47.183			
300.00	300.00	300.00	300.00	0.86	0.86	0.00	0.00	0.00	47.36	0.00	47.36	45.64	1.72	27.524			
400.00	400.00	400.00	400.00	1.22	1.22	0.00	0.00	0.00	47.36	0.00	47.36	44.92	2.44	19.428			
500.00	500.00	500.00	500.00	1.58	1.58	0.00	0.00	0.00	47.36	0.00	47.36	44.20	3.15	15.013			
600.00	600.00	600.00	600.00	1.94	1.94	0.00	0.00	0.00	47.36	0.00	47.36	43.49	3.87	12.233			
700.00	700.00	700.00	700.00	2.29	2.29	0.00	0.00	0.00	47.36	0.00	47.36	42.77	4.59	10.321			
800.00	800.00	800.00	800.00	2.65	2.65	0.00	0.00	0.00	47.36	0.00	47.36	42.05	5.31	8.927			
900.00	900.00	900.00	900.00	3.01	3.01	0.00	0.00	0.00	47.36	0.00	47.36	41.34	6.02	7.864			
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	0.00	0.00	0.00	47.36	0.00	47.36	40.62	6.74	7.027			
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	0.00	0.00	0.00	47.36	0.00	47.36	39.90	7.46	6.352			
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	0.00	0.00	0.00	47.36	0.00	47.36	39.19	8.17	5.794			
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	0.00	0.00	0.00	47.36	0.00	47.36	38.47	8.89	5.327			
1,303.35	1,303.35	1,303.35	1,303.35	4.46	4.46	0.00	0.00	0.00	47.36	0.00	47.36	38.44	8.91	5.313 CC			
1,400.00	1,400.00	1,399.21	1,399.21	4.80	4.80	0.13	0.13	47.77	47.77	0.11	47.77	38.17	9.60	4.975 ES			
1,500.00	1,500.00	1,497.51	1,497.44	5.16	5.15	1.09	1.09	51.03	51.03	0.97	51.10	40.80	10.30	4.959			
1,600.00	1,600.00	1,595.46	1,595.16	5.52	5.50	2.67	2.67	57.52	57.52	2.68	57.79	46.79	10.99	5.256			
1,700.00	1,700.00	1,692.85	1,692.03	5.88	5.85	4.45	4.45	67.17	67.17	5.23	67.84	56.17	11.67	5.813			
1,800.00	1,800.00	1,789.44	1,787.72	6.24	6.21	6.13	6.13	79.88	79.88	8.59	81.28	68.95	12.33	6.591			
1,900.00	1,900.00	1,885.04	1,881.93	6.60	6.57	7.58	7.58	95.53	95.53	12.72	98.05	85.08	12.97	7.559			
2,000.00	2,000.00	1,979.45	1,974.39	6.95	6.94	8.77	8.77	113.95	113.95	17.58	118.11	104.51	13.60	8.687			
2,100.00	2,100.00	2,072.48	2,064.85	7.31	7.32	9.72	9.72	134.98	134.98	23.13	141.39	127.18	14.20	9.955			
2,200.00	2,200.00	2,163.99	2,153.08	7.67	7.72	10.48	10.48	158.42	158.42	29.32	167.80	153.01	14.79	11.347			
2,300.00	2,299.98	2,254.30	2,239.35	8.03	8.13	10.31	10.31	184.21	184.21	36.13	195.64	180.28	15.35	12.741			
2,400.00	2,399.84	2,343.84	2,324.03	8.39	8.57	10.93	10.93	212.37	212.37	43.56	223.21	207.31	15.90	14.035			
2,500.00	2,499.45	2,432.65	2,407.06	8.75	9.03	11.56	11.56	242.82	242.82	51.60	250.52	234.08	16.44	15.239			
2,600.00	2,598.70	2,520.74	2,488.43	9.10	9.52	12.20	12.20	275.46	275.46	60.21	277.55	260.59	16.96	16.362			
2,700.00	2,697.47	2,608.14	2,568.08	9.47	10.04	12.85	12.85	310.21	310.21	69.39	304.30	286.83	17.48	17.413			
2,800.00	2,795.62	2,700.00	2,650.59	9.84	10.62	13.53	13.53	349.26	349.26	79.70	330.80	312.70	18.10	18.280			
2,900.00	2,893.06	2,780.91	2,722.15	10.23	11.16	14.13	14.13	385.76	385.76	89.33	356.91	338.44	18.48	19.317			
3,000.00	2,989.64	2,866.34	2,796.52	10.63	11.77	14.77	14.77	426.39	426.39	100.06	382.76	363.79	18.97	20.179			
3,100.00	3,085.27	2,951.15	2,869.08	11.05	12.41	15.41	15.41	468.84	468.84	111.26	408.29	388.84	19.46	20.983			
3,200.00	3,179.82	3,035.36	2,939.81	11.50	13.08	16.05	16.05	513.02	513.02	122.92	433.51	413.56	19.95	21.731			
3,300.00	3,273.17	3,118.99	3,008.69	11.98	13.78	16.68	16.68	558.87	558.87	135.03	458.40	437.96	20.44	22.422			
3,400.00	3,365.21	3,204.81	3,077.95	12.49	14.53	17.34	17.34	607.87	607.87	147.96	482.91	461.89	21.01	22.980			
3,500.00	3,455.84	3,301.97	3,155.83	13.04	15.41	18.14	18.14	664.03	664.03	162.79	505.19	483.31	21.88	23.089			
3,506.72	3,461.88	3,308.52	3,161.09	13.08	15.47	18.19	18.19	667.82	667.82	163.79	506.58	484.64	21.94	23.090			
3,600.00	3,545.62	3,399.48	3,234.01	13.62	16.32	19.06	19.06	720.40	720.40	177.67	525.78	503.00	22.78	23.081			
3,700.00	3,635.40	3,497.00	3,312.18	14.23	17.23	19.92	19.92	776.76	776.76	192.55	546.48	522.77	23.71	23.051			
3,800.00	3,725.17	3,594.51	3,390.35	14.85	18.16	20.71	20.71	833.13	833.13	207.43	567.28	542.63	24.66	23.006			
3,900.00	3,814.95	3,692.03	3,468.52	15.50	19.10	21.45	21.45	889.49	889.49	222.31	588.19	562.56	25.63	22.948			
4,000.00	3,904.73	3,789.55	3,546.69	16.15	20.05	22.14	22.14	945.86	945.86	237.19	609.19	582.56	26.63	22.880			
4,100.00	3,994.50	3,887.06	3,624.87	16.82	21.01	22.78	22.78	1,002.23	1,002.23	252.06	630.26	602.62	27.64	22.804			
4,200.00	4,084.28	3,984.58	3,703.04	17.51	21.97	23.39	23.39	1,058.59	1,058.59	266.94	651.41	622.74	28.67	22.722			
4,300.00	4,174.06	4,082.09	3,781.21	18.20	22.94	23.95	23.95	1,114.96	1,114.96	281.82	672.62	642.90	29.72	22.635			
4,400.00	4,263.83	4,179.61	3,859.38	18.90	23.92	24.48	24.48	1,171.32	1,171.32	296.70	693.89	663.11	30.78	22.544			
4,500.00	4,353.61	4,277.13	3,937.55	19.62	24.90	24.98	24.98	1,227.69	1,227.69	311.58	715.21	683.35	31.86	22.451			
4,600.00	4,443.38	4,374.64	4,015.72	20.33	25.89	25.45	25.45	1,284.06	1,284.06	326.46	736.58	703.63	32.95	22.357			
4,700.00	4,533.16	4,472.16	4,093.90	21.06	26.88	25.89	25.89	1,340.42	1,340.42	341.34	758.00	723.95	34.05	22.262			
4,800.00	4,622.94	4,569.67	4,172.07	21.79	27.87	26.31	26.31	1,396.79	1,396.79	356.22	779.45	744.29	35.16	22.167			
4,900.00	4,712.71	4,667.19	4,250.24	22.53	28.86	26.71	26.71	1,453.15	1,453.15	371.10	800.95	764.66	36.29	22.072			

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 11-10-5H
<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 11-10-5H	<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										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	4,802.49	4,764.71	4,328.41	23.27	29.86	27.08	1,509.52	385.98	822.48	785.06	37.42	21.978		
5,100.00	4,892.27	4,862.22	4,406.58	24.02	30.86	27.44	1,565.89	400.86	844.04	805.47	38.57	21.886		
5,200.00	4,982.04	4,959.74	4,484.76	24.77	31.86	27.78	1,622.25	415.74	865.63	825.91	39.72	21.794		
5,300.00	5,071.82	5,057.25	4,562.93	25.53	32.87	28.10	1,678.62	430.62	887.25	846.37	40.88	21.705		
5,400.00	5,161.59	5,154.77	4,641.10	26.29	33.87	28.41	1,734.98	445.50	908.90	866.85	42.05	21.617		
5,500.00	5,251.37	5,252.29	4,719.27	27.05	34.88	28.70	1,791.35	460.38	930.56	887.34	43.22	21.531		
5,600.00	5,341.15	5,349.80	4,797.44	27.81	35.89	28.98	1,847.72	475.26	952.25	907.85	44.40	21.446		
5,700.00	5,430.92	5,447.32	4,875.62	28.58	36.90	29.25	1,904.08	490.14	973.97	928.38	45.59	21.364		
5,800.00	5,520.70	5,544.83	4,953.79	29.35	37.91	29.50	1,960.45	505.02	995.70	948.91	46.78	21.284		
5,900.00	5,610.48	5,642.35	5,031.96	30.12	38.93	29.75	2,016.81	519.89	1,017.45	969.46	47.98	21.205		
6,000.00	5,700.25	5,739.87	5,110.13	30.90	39.94	29.98	2,073.18	534.77	1,039.21	990.03	49.18	21.129		
6,100.00	5,790.03	5,837.38	5,188.30	31.67	40.96	30.21	2,129.55	549.65	1,060.99	1,010.60	50.39	21.055		
6,200.00	5,879.81	5,934.90	5,266.47	32.45	41.97	30.42	2,185.91	564.53	1,082.79	1,031.18	51.61	20.982		
6,300.00	5,969.58	6,032.41	5,344.65	33.23	42.99	30.63	2,242.28	579.41	1,104.60	1,051.78	52.82	20.912		
6,400.00	6,059.36	6,129.93	5,422.82	34.01	44.01	30.83	2,298.64	594.29	1,126.42	1,072.38	54.04	20.843		
6,500.00	6,149.13	6,227.45	5,500.99	34.79	45.03	31.02	2,355.01	609.17	1,148.26	1,092.99	55.27	20.776		
6,600.00	6,238.91	6,324.96	5,579.16	35.58	46.04	31.21	2,411.38	624.05	1,170.11	1,113.61	56.50	20.711		
6,700.00	6,328.69	6,422.48	5,657.33	36.36	47.06	31.38	2,467.74	638.93	1,191.97	1,134.24	57.73	20.648		
6,800.00	6,418.46	6,519.99	5,735.51	37.15	48.09	31.55	2,524.11	653.81	1,213.84	1,154.88	58.96	20.587		
6,900.00	6,508.24	6,617.51	5,813.68	37.94	49.11	31.72	2,580.47	668.69	1,235.72	1,175.52	60.20	20.527		
7,000.00	6,598.02	6,715.03	5,891.85	38.73	50.13	31.88	2,636.84	683.57	1,257.61	1,196.17	61.44	20.469		
7,100.00	6,687.79	6,812.54	5,970.02	39.52	51.15	32.03	2,693.21	698.45	1,279.51	1,216.82	62.68	20.412		
7,156.65	6,738.65	6,867.79	6,014.31	39.96	51.73	32.12	2,725.14	706.88	1,291.92	1,228.53	63.39	20.381		
7,200.00	6,777.55	6,909.77	6,047.97	40.31	52.17	40.13	2,749.41	713.28	1,302.28	1,238.32	63.97	20.359		
7,250.00	6,822.15	6,957.29	6,086.06	40.70	52.67	48.81	2,776.87	720.53	1,316.37	1,251.64	64.73	20.338		
7,300.00	6,866.16	7,003.48	6,123.08	41.09	53.15	56.39	2,803.57	727.58	1,332.68	1,267.10	65.58	20.322		
7,350.00	6,909.24	7,047.99	6,158.76	41.47	53.62	62.63	2,829.30	734.37	1,351.16	1,284.64	66.52	20.312		
7,400.00	6,951.05	7,090.48	6,192.83	41.83	54.07	67.49	2,853.86	740.86	1,371.78	1,304.23	67.55	20.308		
7,450.00	6,991.29	7,130.63	6,225.01	42.19	54.49	71.07	2,877.07	746.98	1,394.48	1,325.82	68.65	20.312		
7,500.00	7,029.64	7,168.14	6,255.08	42.53	54.88	73.51	2,898.75	752.71	1,419.20	1,349.37	69.83	20.324		
7,550.00	7,065.81	7,203.48	6,283.08	42.86	55.27	75.87	2,919.98	758.14	1,443.94	1,372.63	71.06	20.341		
7,600.00	7,099.54	7,237.99	6,308.00	43.17	55.66	78.09	2,940.77	763.27	1,468.26	1,395.54	72.33	20.361		
7,650.00	7,130.55	7,272.26	6,328.00	43.47	56.02	74.68	2,961.09	768.00	1,493.14	1,418.00	73.64	20.383		
7,700.00	7,158.62	7,306.26	6,343.00	43.76	56.37	76.66	2,980.87	772.43	1,517.57	1,441.00	75.00	19.529		
7,750.00	7,183.53	7,339.99	6,353.00	44.03	56.75	78.17	3,000.13	776.56	1,541.56	1,463.66	76.41	19.039		
7,800.00	7,205.09	7,372.46	6,358.00	44.30	57.18	79.28	3,018.87	780.39	1,566.10	1,485.98	77.88	18.580		
7,850.00	7,223.14	7,404.79	6,358.00	44.55	57.65	80.09	3,037.11	783.92	1,591.29	1,507.97	79.41	18.154		
7,900.00	7,237.54	7,436.99	6,353.00	44.80	58.16	80.66	3,054.94	787.25	1,617.04	1,529.63	81.00	17.757		
7,950.00	7,248.18	7,468.16	6,343.00	45.04	58.71	81.03	3,072.27	790.38	1,642.79	1,550.96	82.64	17.386		
8,000.00	7,254.98	7,499.31	6,328.00	45.28	59.30	81.25	3,089.11	793.31	1,668.14	1,571.97	84.33	17.041		
8,050.00	7,257.88	7,530.46	6,308.00	45.51	59.93	81.34	3,105.46	796.04	1,693.63	1,592.66	86.06	16.722		
8,062.16	7,258.00	7,561.61	6,283.00	45.73	60.60	81.35	3,121.31	798.57	1,719.34	1,613.04	87.83	16.422		
8,100.00	7,258.00	7,592.76	6,253.00	45.95	61.31	81.35	3,136.66	800.90	1,746.12	1,632.08	89.64	16.127		
8,200.00	7,258.00	7,623.91	6,218.00	46.17	62.06	81.35	3,151.51	803.13	1,773.00	1,650.78	91.49	15.817		
8,300.00	7,258.00	7,655.06	6,178.00	46.38	62.84	81.35	3,165.86	805.26	1,800.00	1,669.14	93.37	15.515		
8,400.00	7,258.00	7,686.21	6,133.00	46.59	63.65	81.35	3,180.71	807.29	1,827.14	1,687.16	95.28	15.215		
8,500.00	7,258.00	7,717.36	6,083.00	46.79	64.49	81.35	3,196.06	809.22	1,854.43	1,704.84	97.21	14.918		
8,600.00	7,258.00	7,748.51	6,028.00	46.99	65.36	81.35	3,211.91	811.05	1,881.97	1,722.18	99.16	14.624		
8,700.00	7,258.00	7,779.66	5,968.00	47.19	66.26	81.35	3,228.26	812.78	1,909.76	1,739.18	101.13	14.334		
8,800.00	7,258.00	7,810.81	5,903.00	47.39	67.19	81.35	3,245.11	814.41	1,937.80	1,755.84	103.12	14.048		
8,900.00	7,258.00	7,841.96	5,833.00	47.59	68.14	81.35	3,262.46	815.94	1,966.09	1,772.16	105.13	13.766		
9,000.00	7,258.00	7,873.11	5,758.00	47.79	69.11	81.35	3,280.31	817.47	1,994.63	1,788.14	107.16	13.488		

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 11-10-5H
<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 11-10-5H	<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										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	7,258.00	10,321.60	7,058.00	57.37	73.41	81.35	3,455.62	-1,598.90	1,329.13	1,209.39	119.74	11.100		
9,200.00	7,258.00	10,421.60	7,058.00	59.21	75.30	81.35	3,454.74	-1,698.89	1,329.09	1,204.83	124.26	10.696		
9,300.00	7,258.00	10,521.60	7,058.00	61.14	77.28	81.35	3,453.86	-1,798.89	1,329.05	1,200.20	128.85	10.315		
9,400.00	7,258.00	10,621.60	7,058.00	63.14	79.35	81.34	3,452.98	-1,898.89	1,329.01	1,195.50	133.50	9.955		
9,500.00	7,258.00	10,721.60	7,058.00	65.21	81.48	81.34	3,452.10	-1,998.88	1,328.96	1,190.75	138.21	9.616		
9,600.00	7,258.00	10,821.60	7,058.00	67.33	83.68	81.34	3,451.21	-2,098.88	1,328.92	1,185.96	142.96	9.296		
9,700.00	7,258.00	10,921.60	7,058.00	69.51	85.93	81.34	3,450.33	-2,198.87	1,328.88	1,181.11	147.76	8.993		
9,800.00	7,258.00	11,021.60	7,058.00	71.73	88.21	81.34	3,449.45	-2,298.87	1,328.83	1,176.23	152.60	8.708		
9,900.00	7,258.00	11,121.60	7,058.00	74.00	90.53	81.34	3,448.57	-2,398.87	1,328.79	1,171.31	157.48	8.438		
10,000.00	7,258.00	11,221.60	7,058.00	76.30	92.89	81.34	3,447.69	-2,498.86	1,328.75	1,166.36	162.39	8.183		
10,100.00	7,258.00	11,321.60	7,058.00	78.63	95.27	81.34	3,446.81	-2,598.86	1,328.71	1,161.38	167.33	7.941		
10,200.00	7,258.00	11,421.60	7,058.00	80.99	97.67	81.34	3,445.93	-2,698.85	1,328.66	1,156.37	172.29	7.712		
10,300.00	7,258.00	11,521.60	7,058.00	83.37	100.10	81.34	3,445.04	-2,798.85	1,328.62	1,151.34	177.28	7.494		
10,400.00	7,258.00	11,621.60	7,058.00	85.78	102.54	81.34	3,444.16	-2,898.85	1,328.58	1,146.28	182.30	7.288		
10,500.00	7,258.00	11,721.60	7,058.00	88.21	105.00	81.34	3,443.28	-2,998.84	1,328.54	1,141.20	187.33	7.092		
10,600.00	7,258.00	11,821.60	7,058.00	90.65	107.48	81.34	3,442.40	-3,098.84	1,328.49	1,136.11	192.39	6.905		
10,700.00	7,258.00	11,921.60	7,058.00	93.12	109.97	81.34	3,441.52	-3,198.83	1,328.45	1,130.99	197.46	6.728		
10,800.00	7,258.00	12,021.60	7,058.00	95.59	112.47	81.34	3,440.64	-3,298.83	1,328.41	1,125.86	202.55	6.559		
10,900.00	7,258.00	12,121.60	7,058.00	98.09	114.98	81.34	3,439.76	-3,398.83	1,328.37	1,120.72	207.65	6.397		
11,000.00	7,258.00	12,221.60	7,058.00	100.59	117.51	81.34	3,438.87	-3,498.82	1,328.32	1,115.56	212.77	6.243		
11,100.00	7,258.00	12,321.60	7,058.00	103.11	120.04	81.34	3,437.99	-3,598.82	1,328.28	1,110.38	217.90	6.096		
11,200.00	7,258.00	12,421.60	7,058.00	105.64	122.58	81.34	3,437.11	-3,698.82	1,328.24	1,105.20	223.04	5.955		
11,300.00	7,258.00	12,521.60	7,058.00	108.18	125.13	81.34	3,436.23	-3,798.81	1,328.19	1,100.00	228.20	5.820		
11,400.00	7,258.00	12,621.60	7,058.00	110.73	127.69	81.34	3,435.35	-3,898.81	1,328.15	1,094.79	233.36	5.691		
11,500.00	7,258.00	12,721.60	7,058.00	113.29	130.26	81.34	3,434.47	-3,998.80	1,328.11	1,089.57	238.53	5.568		
11,600.00	7,258.00	12,821.60	7,058.00	115.85	132.83	81.34	3,433.59	-4,098.80	1,328.07	1,084.35	243.72	5.449		
11,700.00	7,258.00	12,921.60	7,058.00	118.43	135.41	81.34	3,432.71	-4,198.80	1,328.02	1,079.11	248.91	5.335		
11,800.00	7,258.00	13,021.60	7,058.00	121.01	137.99	81.34	3,431.82	-4,298.79	1,327.98	1,073.87	254.11	5.226		
11,900.00	7,258.00	13,121.60	7,058.00	123.59	140.58	81.34	3,430.94	-4,398.79	1,327.94	1,068.62	259.32	5.121		
12,000.00	7,258.00	13,221.60	7,058.00	126.18	143.18	81.34	3,430.06	-4,498.78	1,327.90	1,063.36	264.54	5.020		
12,100.00	7,258.00	13,321.60	7,058.00	128.78	145.78	81.34	3,429.18	-4,598.78	1,327.85	1,058.09	269.76	4.922		
12,200.00	7,258.00	13,421.60	7,058.00	131.39	148.38	81.34	3,428.30	-4,698.78	1,327.81	1,052.82	274.99	4.829		
12,300.00	7,258.00	13,521.60	7,058.00	133.99	150.99	81.34	3,427.42	-4,798.77	1,327.77	1,047.54	280.22	4.738		
12,400.00	7,258.00	13,621.60	7,058.00	136.61	153.60	81.34	3,426.54	-4,898.77	1,327.72	1,042.26	285.46	4.651		
12,500.00	7,258.00	13,721.60	7,058.00	139.22	156.22	81.34	3,425.65	-4,998.76	1,327.68	1,036.97	290.71	4.567		
12,600.00	7,258.00	13,821.60	7,058.00	141.84	158.84	81.34	3,424.77	-5,098.76	1,327.64	1,031.68	295.96	4.486		
12,700.00	7,258.00	13,921.60	7,058.00	144.47	161.46	81.34	3,423.89	-5,198.76	1,327.60	1,026.38	301.22	4.407		
12,800.00	7,258.00	14,021.60	7,058.00	147.10	164.09	81.34	3,423.01	-5,298.75	1,327.55	1,021.08	306.48	4.332		
12,900.00	7,258.00	14,121.60	7,058.00	149.73	166.72	81.33	3,422.13	-5,398.75	1,327.51	1,015.77	311.74	4.258		
13,000.00	7,258.00	14,221.60	7,058.00	152.37	169.35	81.33	3,421.25	-5,498.75	1,327.47	1,010.46	317.01	4.187		
13,100.00	7,258.00	14,321.60	7,058.00	155.01	171.99	81.33	3,420.37	-5,598.74	1,327.43	1,005.14	322.28	4.119		
13,200.00	7,258.00	14,421.60	7,058.00	157.65	174.63	81.33	3,419.49	-5,698.74	1,327.38	999.82	327.56	4.052		
13,300.00	7,258.00	14,521.60	7,058.00	160.29	177.27	81.33	3,418.60	-5,798.73	1,327.34	994.50	332.84	3.988		
13,400.00	7,258.00	14,621.60	7,058.00	162.94	179.91	81.33	3,417.72	-5,898.73	1,327.30	989.17	338.12	3.925		
13,500.00	7,258.00	14,721.60	7,058.00	165.59	182.56	81.33	3,416.84	-5,998.73	1,327.26	983.84	343.41	3.865		
13,600.00	7,258.00	14,821.60	7,058.00	168.24	185.20	81.33	3,415.96	-6,098.72	1,327.21	978.51	348.70	3.806		
13,700.00	7,258.00	14,921.60	7,058.00	170.89	187.85	81.33	3,415.08	-6,198.72	1,327.17	973.18	353.99	3.749		
13,800.00	7,258.00	15,021.60	7,058.00	173.55	190.51	81.33	3,414.20	-6,298.71	1,327.13	967.84	359.29	3.694		
13,900.00	7,258.00	15,121.60	7,058.00	176.21	193.16	81.33	3,413.32	-6,398.71	1,327.08	962.50	364.59	3.640		
14,000.00	7,258.00	15,221.60	7,058.00	178.87	195.82	81.33	3,412.43	-6,498.71	1,327.04	957.15	369.89	3.588		
14,100.00	7,258.00	15,321.60	7,058.00	181.53	198.47	81.33	3,411.55	-6,598.70	1,327.00	951.81	375.19	3.537		
14,200.00	7,258.00	15,421.60	7,058.00	184.19	201.13	81.33	3,410.67	-6,698.70	1,326.96	946.46	380.50	3.487		

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 11-10-5H
<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 11-10-5H	<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			
14,300.00	7,258.00	15,521.60	7,058.00	186.86	203.79	81.33	3,409.79	-6,798.69	1,326.91	941.11	385.81	3.439			
14,400.00	7,258.00	15,621.60	7,058.00	189.53	206.46	81.33	3,408.91	-6,898.69	1,326.87	935.75	391.12	3.393			
14,500.00	7,258.00	15,721.60	7,058.00	192.20	209.12	81.33	3,408.03	-6,998.69	1,326.83	930.40	396.43	3.347			
14,600.00	7,258.00	15,821.60	7,058.00	194.87	211.78	81.33	3,407.15	-7,098.68	1,326.79	925.04	401.74	3.303			
14,700.00	7,258.00	15,921.60	7,058.00	197.54	214.45	81.33	3,406.26	-7,198.68	1,326.74	919.68	407.06	3.259			
14,800.00	7,258.00	16,021.60	7,058.00	200.21	217.12	81.33	3,405.38	-7,298.68	1,326.70	914.32	412.38	3.217			
14,900.00	7,258.00	16,121.60	7,058.00	202.89	219.79	81.33	3,404.50	-7,398.67	1,326.66	908.96	417.70	3.176			
15,000.00	7,258.00	16,221.60	7,058.00	205.56	222.46	81.33	3,403.62	-7,498.67	1,326.61	903.60	423.02	3.136			
15,100.00	7,258.00	16,321.60	7,058.00	208.24	225.13	81.33	3,402.74	-7,598.66	1,326.57	898.23	428.34	3.097			
15,200.00	7,258.00	16,421.60	7,058.00	210.92	227.80	81.33	3,401.86	-7,698.66	1,326.53	892.86	433.67	3.059			
15,300.00	7,258.00	16,521.60	7,058.00	213.60	230.48	81.33	3,400.98	-7,798.66	1,326.49	887.49	438.99	3.022			
15,400.00	7,258.00	16,621.60	7,058.00	216.28	233.15	81.33	3,400.10	-7,898.65	1,326.44	882.12	444.32	2.985			
15,500.00	7,258.00	16,721.60	7,058.00	218.96	235.83	81.33	3,399.21	-7,998.65	1,326.40	876.75	449.65	2.950			
15,600.00	7,258.00	16,821.60	7,058.00	221.64	238.51	81.33	3,398.33	-8,098.64	1,326.36	871.38	454.98	2.915			
15,700.00	7,258.00	16,921.60	7,058.00	224.32	241.18	81.33	3,397.45	-8,198.64	1,326.32	866.00	460.31	2.881			
15,789.87	7,258.00	17,011.19	7,058.00	226.74	243.58	81.33	3,396.66	-8,288.23	1,326.28	861.17	465.11	2.852			
15,800.00	7,258.00	17,011.19	7,058.00	227.01	243.58	81.33	3,396.66	-8,288.23	1,326.31	860.57	465.74	2.848			
15,837.79	7,258.00	17,011.19	7,058.00	228.02	243.58	81.33	3,396.66	-8,288.23	1,327.13	859.26	467.87	2.837 SF			

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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	
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	29.15	0.00	29.15	29.15					
100.00	100.00	100.00	100.00	0.14	0.14	0.00	29.15	0.00	29.15	28.86	0.29	101.640			
200.00	200.00	200.00	200.00	0.50	0.50	0.00	29.15	0.00	29.15	28.14	1.00	29.040			
300.00	300.00	300.00	300.00	0.86	0.86	0.00	29.15	0.00	29.15	27.43	1.72	16.940			
400.00	400.00	400.00	400.00	1.22	1.22	0.00	29.15	0.00	29.15	26.71	2.44	11.958			
500.00	500.00	500.00	500.00	1.58	1.58	0.00	29.15	0.00	29.15	25.99	3.15	9.240			
600.00	600.00	600.00	600.00	1.94	1.94	0.00	29.15	0.00	29.15	25.28	3.87	7.529			
700.00	700.00	700.00	700.00	2.29	2.29	0.00	29.15	0.00	29.15	24.56	4.59	6.352			
800.00	800.00	800.00	800.00	2.65	2.65	0.00	29.15	0.00	29.15	23.84	5.31	5.494			
900.00	900.00	900.00	900.00	3.01	3.01	0.00	29.15	0.00	29.15	23.13	6.02	4.840			
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	0.00	29.15	0.00	29.15	22.41	6.74	4.325			
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	0.00	29.15	0.00	29.15	21.69	7.46	3.909			
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	0.00	29.15	0.00	29.15	20.97	8.17	3.566			
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	0.00	29.15	0.00	29.15	20.26	8.89	3.279			
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	0.00	29.15	0.00	29.15	19.54	9.61	3.034			
1,500.00	1,500.00	1,500.00	1,500.00	5.16	5.16	0.00	29.15	0.00	29.15	18.82	10.32	2.823			
1,600.00	1,600.00	1,600.00	1,600.00	5.52	5.52	0.00	29.15	0.00	29.15	18.11	11.04	2.640			
1,700.00	1,700.00	1,700.00	1,700.00	5.88	5.88	0.00	29.15	0.00	29.15	17.39	11.76	2.479			
1,800.00	1,800.00	1,800.00	1,800.00	6.24	6.24	0.00	29.15	0.00	29.15	16.67	12.47	2.337			
1,900.00	1,900.00	1,900.00	1,900.00	6.60	6.60	0.00	29.15	0.00	29.15	15.96	13.19	2.210			
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	0.00	29.15	0.00	29.15	15.24	13.91	2.096 CC, ES			
2,100.00	2,100.00	2,099.00	2,098.98	7.31	7.31	0.92	30.79	0.49	30.81	16.19	14.62	2.108			
2,200.00	2,200.00	2,197.76	2,197.60	7.67	7.66	3.16	35.68	1.97	35.81	20.51	15.31	2.340			
2,300.00	2,299.98	2,296.20	2,295.67	8.03	8.02	5.19	43.79	4.42	42.50	26.52	15.98	2.660			
2,400.00	2,399.84	2,394.39	2,393.15	8.39	8.37	8.31	55.09	7.84	49.19	32.57	16.63	2.959			
2,500.00	2,499.45	2,492.32	2,489.90	8.75	8.72	11.64	69.55	12.20	55.99	38.73	17.26	3.244			
2,600.00	2,598.70	2,589.99	2,585.82	9.10	9.09	15.07	87.10	17.50	62.98	45.11	17.87	3.524			
2,700.00	2,697.47	2,687.37	2,680.79	9.47	9.47	18.54	107.71	23.73	70.24	51.78	18.47	3.804			
2,800.00	2,795.62	2,784.47	2,774.70	9.84	9.86	22.01	131.33	30.86	77.86	58.81	19.05	4.087			
2,900.00	2,893.06	2,881.28	2,867.45	10.23	10.27	25.43	157.89	38.88	85.91	66.28	19.63	4.376			
3,000.00	2,989.64	2,977.79	2,958.92	10.63	10.71	28.76	187.34	47.78	94.45	74.22	20.22	4.671			
3,100.00	3,085.27	3,074.00	3,049.02	11.05	11.17	31.97	219.62	57.53	103.53	82.70	20.83	4.970			
3,200.00	3,179.82	3,169.90	3,137.66	11.50	11.67	35.05	254.66	68.11	113.21	91.73	21.47	5.272			
3,300.00	3,273.17	3,265.49	3,224.74	11.98	12.19	37.98	292.40	79.51	123.51	101.35	22.16	5.574			
3,400.00	3,365.21	3,360.77	3,310.18	12.49	12.75	40.75	332.75	91.70	134.47	111.56	22.91	5.869			
3,500.00	3,455.84	3,455.74	3,393.89	13.04	13.35	43.37	375.66	104.66	146.10	122.36	23.74	6.155			
3,506.72	3,461.88	3,462.11	3,399.46	13.08	13.39	43.54	378.64	105.56	146.90	123.11	23.79	6.174			
3,600.00	3,545.62	3,550.31	3,475.74	13.62	13.99	45.61	421.01	118.35	159.47	134.85	24.61	6.479			
3,700.00	3,635.40	3,644.26	3,555.46	14.23	14.66	46.95	468.59	132.73	175.77	150.27	25.49	6.895			
3,800.00	3,725.17	3,737.38	3,632.82	14.85	15.37	47.55	518.20	147.71	194.82	168.46	26.35	7.393			
3,900.00	3,814.95	3,829.51	3,707.66	15.50	16.11	47.59	569.63	163.24	216.51	189.34	27.17	7.968			
4,000.00	3,904.73	3,926.35	3,785.29	16.15	16.93	47.38	625.06	179.98	239.69	211.45	28.24	8.489			
4,100.00	3,994.50	4,023.62	3,863.25	16.82	17.77	47.21	680.74	196.80	262.88	233.54	29.34	8.960			
4,200.00	4,084.28	4,120.90	3,941.22	17.51	18.63	47.06	736.42	213.62	286.07	255.60	30.47	9.389			
4,300.00	4,174.06	4,218.17	4,019.18	18.20	19.52	46.93	792.11	230.44	309.26	277.64	31.61	9.782			
4,400.00	4,263.83	4,315.44	4,097.15	18.90	20.41	46.83	847.79	247.26	332.45	299.67	32.78	10.143			
4,500.00	4,353.61	4,412.71	4,175.11	19.62	21.32	46.73	903.47	264.07	355.65	321.69	33.96	10.474			
4,600.00	4,443.38	4,509.98	4,253.07	20.33	22.24	46.65	959.15	280.89	378.84	343.69	35.15	10.778			
4,700.00	4,533.16	4,607.25	4,331.04	21.06	23.16	46.58	1,014.83	297.71	402.04	365.68	36.35	11.059			
4,800.00	4,622.94	4,704.52	4,409.00	21.79	24.10	46.52	1,070.52	314.53	425.23	387.66	37.57	11.319			
4,900.00	4,712.71	4,801.80	4,486.97	22.53	25.05	46.46	1,126.20	331.34	448.43	409.63	38.79	11.559			
5,000.00	4,802.49	4,899.07	4,564.93	23.27	26.00	46.41	1,181.88	348.16	471.63	431.60	40.03	11.782			

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 11-10-5H
<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 11-10-5H	<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	
Reference				Offset			Semi Major Axis		Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)				
5,100.00	4,892.27	4,996.34	4,642.89	24.02	26.96	46.36	1,237.56	364.98	494.82	453.55	41.27	11.989			
5,200.00	4,982.04	5,093.61	4,720.86	24.77	27.92	46.32	1,293.25	381.80	518.02	475.50	42.52	12.182			
5,300.00	5,071.82	5,190.88	4,798.82	25.53	28.89	46.28	1,348.93	398.62	541.22	497.44	43.78	12.362			
5,400.00	5,161.59	5,288.15	4,876.79	26.29	29.86	46.24	1,404.61	415.43	564.42	519.37	45.04	12.531			
5,500.00	5,251.37	5,385.42	4,954.75	27.05	30.84	46.21	1,460.29	432.25	587.62	541.30	46.31	12.688			
5,600.00	5,341.15	5,482.70	5,032.71	27.81	31.82	46.18	1,515.97	449.07	610.81	563.23	47.59	12.836			
5,700.00	5,430.92	5,579.97	5,110.68	28.58	32.81	46.15	1,571.66	465.89	634.01	585.15	48.87	12.975			
5,800.00	5,520.70	5,677.24	5,188.64	29.35	33.79	46.12	1,627.34	482.71	657.21	607.06	50.15	13.105			
5,900.00	5,610.48	5,774.51	5,266.60	30.12	34.78	46.10	1,683.02	499.52	680.41	628.97	51.44	13.228			
6,000.00	5,700.25	5,871.78	5,344.57	30.90	35.78	46.07	1,738.70	516.34	703.61	650.88	52.73	13.344			
6,100.00	5,790.03	5,969.05	5,422.53	31.67	36.77	46.05	1,794.39	533.16	726.81	672.79	54.02	13.454			
6,200.00	5,879.81	6,066.32	5,500.50	32.45	37.77	46.03	1,850.07	549.98	750.01	694.69	55.32	13.557			
6,300.00	5,969.58	6,163.60	5,578.46	33.23	38.77	46.01	1,905.75	566.79	773.21	716.58	56.62	13.655			
6,400.00	6,059.36	6,260.87	5,656.42	34.01	39.77	45.99	1,961.43	583.61	796.41	738.48	57.93	13.748			
6,500.00	6,149.13	6,358.14	5,734.39	34.79	40.77	45.98	2,017.11	600.43	819.61	760.37	59.23	13.837			
6,600.00	6,238.91	6,455.41	5,812.35	35.58	41.78	45.96	2,072.80	617.25	842.81	782.26	60.54	13.921			
6,700.00	6,328.69	6,552.68	5,890.32	36.36	42.78	45.95	2,128.48	634.07	866.01	804.15	61.85	14.001			
6,800.00	6,418.46	6,649.95	5,968.28	37.15	43.79	45.93	2,184.16	650.88	889.21	826.04	63.17	14.077			
6,900.00	6,508.24	6,747.22	6,046.24	37.94	44.80	45.92	2,239.84	667.70	912.41	847.92	64.48	14.149			
7,000.00	6,598.02	6,844.50	6,124.21	38.73	45.81	45.91	2,295.53	684.52	935.60	869.80	65.80	14.218			
7,100.00	6,687.79	6,941.77	6,202.17	39.52	46.82	45.89	2,351.21	701.34	958.80	891.68	67.12	14.284			
7,156.65	6,738.65	6,996.87	6,246.34	39.96	47.39	45.89	2,382.75	710.86	971.95	904.08	67.87	14.321			
7,200.00	6,777.55	7,038.72	6,279.88	40.31	47.83	45.94	2,406.71	718.10	983.16	914.68	68.49	14.356			
7,250.00	6,822.15	7,086.00	6,317.77	40.70	48.32	62.65	2,433.77	726.27	998.92	929.63	69.29	14.416			
7,300.00	6,866.16	7,131.86	6,354.53	41.09	48.80	70.24	2,460.02	734.20	1,017.62	947.42	70.20	14.496			
7,350.00	6,909.24	7,175.96	6,389.88	41.47	49.26	76.46	2,485.27	741.83	1,039.18	967.98	71.19	14.597			
7,400.00	6,951.05	7,211.27	7,162.00	41.83	56.30	56.77	3,028.83	-32.56	1,046.15	987.97	58.18	17.981			
7,450.00	6,991.29	7,233.40	7,162.00	42.19	56.29	63.60	3,028.65	-54.70	1,019.32	959.66	59.66	17.085			
7,500.00	7,029.64	7,259.36	7,162.00	42.53	56.29	68.98	3,028.43	-80.65	994.96	933.80	61.15	16.270			
7,550.00	7,065.81	7,288.94	7,162.00	42.86	56.29	73.16	3,028.18	-110.23	973.13	910.49	62.65	15.533			
7,600.00	7,099.54	7,321.92	7,162.00	43.17	56.28	76.35	3,027.90	-143.21	953.88	889.71	64.16	14.867			
7,650.00	7,130.55	7,358.04	7,162.00	43.47	56.29	78.74	3,027.60	-179.33	937.14	871.47	65.67	14.270			
7,700.00	7,158.62	7,397.04	7,162.00	43.76	56.30	80.47	3,027.27	-218.33	922.85	855.70	67.16	13.742			
7,750.00	7,183.53	7,438.62	7,162.00	44.03	56.32	81.70	3,026.93	-259.91	910.88	842.21	68.67	13.265			
7,800.00	7,205.09	7,482.46	7,162.00	44.30	56.36	82.54	3,026.56	-303.74	901.08	830.92	70.16	12.843			
7,850.00	7,223.14	7,528.22	7,162.00	44.55	56.41	83.08	3,026.17	-349.50	893.29	821.64	71.65	12.467			
7,900.00	7,237.54	7,575.56	7,162.00	44.80	56.47	83.41	3,025.78	-396.84	887.36	814.21	73.15	12.131			
7,950.00	7,248.18	7,624.12	7,162.00	45.04	56.56	83.60	3,025.37	-445.40	883.13	808.50	74.63	11.833			
8,000.00	7,254.98	7,673.53	7,162.00	45.28	56.67	83.70	3,024.96	-494.81	880.50	804.38	76.12	11.567			
8,050.00	7,257.88	7,723.41	7,162.00	45.51	56.81	83.73	3,024.54	-544.68	879.40	801.80	77.59	11.333			
8,062.16	7,258.00	7,773.56	7,162.00	45.75	56.84	83.73	3,024.12	-594.84	879.35	801.40	77.95	11.281			
8,100.00	7,258.00	7,823.41	7,162.00	45.98	56.97	83.73	3,023.70	-645.68	879.35	797.12	82.23	10.694			
8,200.00	7,258.00	7,873.41	7,162.00	46.21	57.11	83.73	3,023.28	-697.67	879.35	793.73	85.62	10.270			
8,300.00	7,258.00	7,923.41	7,162.00	46.44	57.25	83.73	3,022.86	-750.67	879.35	790.13	89.22	9.856			
8,400.00	7,258.00	7,973.41	7,162.00	46.67	57.39	83.73	3,022.44	-804.67	879.35	786.35	93.00	9.455			
8,500.00	7,258.00	8,023.41	7,162.00	46.90	57.53	83.73	3,022.02	-859.67	879.35	782.40	96.95	9.070			
8,600.00	7,258.00	8,073.41	7,162.00	47.13	57.67	83.73	3,021.60	-915.67	879.35	778.31	101.03	8.703			
8,700.00	7,258.00	8,123.41	7,162.00	47.36	57.81	83.73	3,021.18	-972.67	879.35	774.10	105.25	8.355			
8,800.00	7,258.00	8,173.41	7,162.00	47.59	57.95	83.73	3,020.76	-1,030.67	879.35	769.78	109.57	8.026			
8,900.00	7,258.00	8,223.41	7,162.00	47.82	58.09	83.73	3,020.34	-1,089.67	879.35	765.36	113.99	7.715			
9,000.00	7,258.00	8,273.41	7,162.00	48.05	58.23	83.73	3,019.92	-1,149.67	879.35	760.86	118.49	7.421			
9,100.00	7,258.00	8,323.41	7,162.00	48.28	58.37	83.73	3,019.50	-1,210.67	879.35	756.24	123.00	7.130			

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 11-10-5H
<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 11-10-5H	<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		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:			Offset Well Error:		0.00 usft
Reference		Offset		Reference		Highside			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,200.00	7,258.00	10,373.41	7,162.00	59.21	72.37	83.73	3,014.89	-1,694.64	879.35	756.28	123.07	7.145		
9,300.00	7,258.00	10,473.41	7,162.00	61.14	74.57	83.73	3,014.06	-1,794.64	879.35	751.63	127.72	6.885		
9,400.00	7,258.00	10,573.41	7,162.00	63.14	76.83	83.73	3,013.22	-1,894.64	879.35	746.92	132.42	6.640		
9,500.00	7,258.00	10,673.41	7,162.00	65.21	79.13	83.73	3,012.38	-1,994.63	879.35	742.16	137.19	6.410		
9,600.00	7,258.00	10,773.41	7,162.00	67.33	81.46	83.73	3,011.54	-2,094.63	879.35	737.35	141.99	6.193		
9,700.00	7,258.00	10,873.41	7,162.00	69.51	83.83	83.73	3,010.70	-2,194.62	879.35	732.50	146.85	5.988		
9,800.00	7,258.00	10,973.41	7,162.00	71.73	86.22	83.73	3,009.86	-2,294.62	879.35	727.61	151.74	5.795		
9,900.00	7,258.00	11,073.41	7,162.00	74.00	88.64	83.73	3,009.02	-2,394.62	879.34	722.68	156.66	5.613		
10,000.00	7,258.00	11,173.41	7,162.00	76.30	91.08	83.73	3,008.19	-2,494.61	879.34	717.72	161.62	5.441		
10,100.00	7,258.00	11,273.41	7,162.00	78.63	93.53	83.73	3,007.35	-2,594.61	879.34	712.73	166.61	5.278		
10,200.00	7,258.00	11,373.41	7,162.00	80.99	96.00	83.73	3,006.51	-2,694.61	879.34	707.72	171.62	5.124		
10,300.00	7,258.00	11,473.41	7,162.00	83.37	98.49	83.73	3,005.67	-2,794.60	879.34	702.68	176.66	4.978		
10,400.00	7,258.00	11,573.41	7,162.00	85.78	100.99	83.73	3,004.83	-2,894.60	879.34	697.62	181.72	4.839		
10,500.00	7,258.00	11,673.41	7,162.00	88.21	103.50	83.73	3,003.99	-2,994.60	879.34	692.54	186.80	4.707		
10,600.00	7,258.00	11,773.41	7,162.00	90.65	106.02	83.73	3,003.15	-3,094.59	879.34	687.44	191.90	4.582		
10,700.00	7,258.00	11,873.41	7,162.00	93.12	108.56	83.73	3,002.32	-3,194.59	879.34	682.33	197.01	4.463		
10,800.00	7,258.00	11,973.41	7,162.00	95.59	111.10	83.73	3,001.48	-3,294.59	879.34	677.20	202.14	4.350		
10,900.00	7,258.00	12,073.41	7,162.00	98.09	113.65	83.73	3,000.64	-3,394.58	879.34	672.05	207.29	4.242		
11,000.00	7,258.00	12,173.41	7,162.00	100.59	116.21	83.73	2,999.80	-3,494.58	879.34	666.89	212.45	4.139		
11,100.00	7,258.00	12,273.41	7,162.00	103.11	118.78	83.73	2,998.96	-3,594.58	879.34	661.72	217.62	4.041		
11,200.00	7,258.00	12,373.41	7,162.00	105.64	121.35	83.73	2,998.12	-3,694.57	879.34	656.54	222.80	3.947		
11,300.00	7,258.00	12,473.41	7,162.00	108.18	123.93	83.73	2,997.28	-3,794.57	879.34	651.34	228.00	3.857		
11,400.00	7,258.00	12,573.41	7,162.00	110.73	126.52	83.73	2,996.45	-3,894.56	879.34	646.14	233.20	3.771		
11,500.00	7,258.00	12,673.41	7,162.00	113.29	129.11	83.73	2,995.61	-3,994.56	879.34	640.92	238.42	3.688		
11,600.00	7,258.00	12,773.41	7,162.00	115.85	131.71	83.73	2,994.77	-4,094.56	879.34	635.70	243.64	3.609		
11,700.00	7,258.00	12,873.41	7,162.00	118.43	134.31	83.73	2,993.93	-4,194.55	879.34	630.47	248.87	3.533		
11,800.00	7,258.00	12,973.41	7,162.00	121.01	136.92	83.73	2,993.09	-4,294.55	879.34	625.23	254.11	3.460		
11,900.00	7,258.00	13,073.41	7,162.00	123.59	139.53	83.73	2,992.25	-4,394.55	879.34	619.98	259.35	3.390		
12,000.00	7,258.00	13,173.41	7,162.00	126.18	142.15	83.73	2,991.41	-4,494.54	879.34	614.73	264.61	3.323		
12,100.00	7,258.00	13,273.41	7,162.00	128.78	144.77	83.73	2,990.58	-4,594.54	879.34	609.47	269.87	3.258		
12,200.00	7,258.00	13,373.41	7,162.00	131.39	147.39	83.73	2,989.74	-4,694.54	879.34	604.20	275.13	3.196		
12,300.00	7,258.00	13,473.41	7,162.00	133.99	150.02	83.73	2,988.90	-4,794.53	879.34	598.93	280.40	3.136		
12,400.00	7,258.00	13,573.41	7,162.00	136.61	152.65	83.73	2,988.06	-4,894.53	879.34	593.66	285.68	3.078		
12,500.00	7,258.00	13,673.41	7,162.00	139.22	155.28	83.73	2,987.22	-4,994.53	879.33	588.37	290.96	3.022		
12,600.00	7,258.00	13,773.41	7,162.00	141.84	157.92	83.73	2,986.38	-5,094.52	879.33	583.09	296.25	2.968		
12,700.00	7,258.00	13,873.41	7,162.00	144.47	160.55	83.73	2,985.54	-5,194.52	879.33	577.80	301.54	2.916		
12,800.00	7,258.00	13,973.41	7,162.00	147.10	163.20	83.73	2,984.71	-5,294.52	879.33	572.50	306.83	2.866		
12,900.00	7,258.00	14,073.41	7,162.00	149.73	165.84	83.73	2,983.87	-5,394.51	879.33	567.20	312.13	2.817		
13,000.00	7,258.00	14,173.41	7,162.00	152.37	168.49	83.73	2,983.03	-5,494.51	879.33	561.90	317.43	2.770		
13,100.00	7,258.00	14,273.41	7,162.00	155.01	171.14	83.73	2,982.19	-5,594.51	879.33	556.59	322.74	2.725		
13,200.00	7,258.00	14,373.41	7,162.00	157.65	173.79	83.73	2,981.35	-5,694.50	879.33	551.28	328.05	2.680		
13,300.00	7,258.00	14,473.41	7,162.00	160.29	176.44	83.73	2,980.51	-5,794.50	879.33	545.97	333.37	2.638		
13,400.00	7,258.00	14,573.41	7,162.00	162.94	179.10	83.73	2,979.67	-5,894.49	879.33	540.65	338.68	2.596		
13,500.00	7,258.00	14,673.41	7,162.00	165.59	181.75	83.73	2,978.84	-5,994.49	879.33	535.33	344.00	2.556		
13,600.00	7,258.00	14,773.41	7,162.00	168.24	184.41	83.73	2,978.00	-6,094.49	879.33	530.00	349.33	2.517		
13,700.00	7,258.00	14,873.41	7,162.00	170.89	187.07	83.73	2,977.16	-6,194.48	879.33	524.68	354.65	2.479		
13,800.00	7,258.00	14,973.41	7,162.00	173.55	189.73	83.73	2,976.32	-6,294.48	879.33	519.35	359.98	2.443		
13,900.00	7,258.00	15,073.41	7,162.00	176.21	192.40	83.73	2,975.48	-6,394.48	879.33	514.02	365.31	2.407		
14,000.00	7,258.00	15,173.41	7,162.00	178.87	195.06	83.73	2,974.64	-6,494.47	879.33	508.68	370.64	2.372		
14,100.00	7,258.00	15,273.41	7,162.00	181.53	197.73	83.73	2,973.80	-6,594.47	879.33	503.35	375.98	2.339		
14,200.00	7,258.00	15,373.41	7,162.00	184.19	200.40	83.73	2,972.97	-6,694.47	879.33	498.01	381.32	2.306		
14,300.00	7,258.00	15,473.41	7,162.00	186.86	203.07	83.73	2,972.13	-6,794.46	879.33	492.67	386.66	2.274		

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 11-10-5H
<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 11-10-5H	<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
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		
14,400.00	7,258.00	15,573.41	7,162.00	189.53	205.74	83.73	2,971.29	-6,894.46	879.33	487.33	392.00	2.243		
14,500.00	7,258.00	15,673.41	7,162.00	192.20	208.41	83.73	2,970.45	-6,994.46	879.33	481.98	397.34	2.213		
14,600.00	7,258.00	15,773.41	7,162.00	194.87	211.09	83.73	2,969.61	-7,094.45	879.33	476.64	402.69	2.184		
14,700.00	7,258.00	15,873.41	7,162.00	197.54	213.76	83.73	2,968.77	-7,194.45	879.33	471.29	408.04	2.155		
14,800.00	7,258.00	15,973.41	7,162.00	200.21	216.44	83.73	2,967.94	-7,294.45	879.33	465.94	413.39	2.127		
14,900.00	7,258.00	16,073.41	7,162.00	202.89	219.12	83.73	2,967.10	-7,394.44	879.33	460.59	418.74	2.100		
15,000.00	7,258.00	16,173.41	7,162.00	205.56	221.79	83.73	2,966.26	-7,494.44	879.33	455.23	424.09	2.073		
15,100.00	7,258.00	16,273.41	7,162.00	208.24	224.47	83.73	2,965.42	-7,594.43	879.32	449.88	429.45	2.048		
15,200.00	7,258.00	16,373.41	7,162.00	210.92	227.15	83.73	2,964.58	-7,694.43	879.32	444.52	434.80	2.022		
15,300.00	7,258.00	16,473.41	7,162.00	213.60	229.83	83.73	2,963.74	-7,794.43	879.32	439.16	440.16	1.998		
15,400.00	7,258.00	16,573.41	7,162.00	216.28	232.52	83.73	2,962.90	-7,894.42	879.32	433.81	445.52	1.974		
15,500.00	7,258.00	16,673.41	7,162.00	218.96	235.20	83.73	2,962.07	-7,994.42	879.32	428.45	450.88	1.950		
15,600.00	7,258.00	16,773.41	7,162.00	221.64	237.88	83.73	2,961.23	-8,094.42	879.32	423.08	456.24	1.927		
15,700.00	7,258.00	16,873.41	7,162.00	224.32	240.57	83.73	2,960.39	-8,194.41	879.32	417.72	461.60	1.905		
15,800.00	7,258.00	16,973.41	7,162.00	227.01	243.25	83.73	2,959.55	-8,294.41	879.32	412.36	466.97	1.883		
15,804.92	7,258.00	16,978.33	7,162.00	227.14	243.39	83.73	2,959.51	-8,299.33	879.32	412.09	467.23	1.882		
15,837.79	7,258.00	16,978.51	7,162.00	228.02	243.39	83.73	2,959.51	-8,299.52	879.93	410.43	469.49	1.874 SF		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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										Rule Assigned:		Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.57	0.00	14.57				
100.00	100.00	100.00	100.00	0.14	0.14	0.00	14.57	0.00	14.57	14.29	0.29	50.813	
200.00	200.00	200.00	200.00	0.50	0.50	0.00	14.57	0.00	14.57	13.57	1.00	14.518	
300.00	300.00	300.00	300.00	0.86	0.86	0.00	14.57	0.00	14.57	12.85	1.72	8.469	
400.00	400.00	400.00	400.00	1.22	1.22	0.00	14.57	0.00	14.57	12.13	2.44	5.978	
500.00	500.00	500.00	500.00	1.58	1.58	0.00	14.57	0.00	14.57	11.42	3.15	4.619	
600.00	600.00	600.00	600.00	1.94	1.94	0.00	14.57	0.00	14.57	10.70	3.87	3.764	
700.00	700.00	700.00	700.00	2.29	2.29	0.00	14.57	0.00	14.57	9.98	4.59	3.176	
800.00	800.00	800.00	800.00	2.65	2.65	0.00	14.57	0.00	14.57	9.27	5.31	2.747	
900.00	900.00	900.00	900.00	3.01	3.01	0.00	14.57	0.00	14.57	8.55	6.02	2.420	
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	0.00	14.57	0.00	14.57	7.83	6.74	2.162	
1,100.00	1,100.00	1,100.00	1,100.00	3.73	3.73	0.00	14.57	0.00	14.57	7.12	7.46	1.954	
1,200.00	1,200.00	1,200.00	1,200.00	4.09	4.09	0.00	14.57	0.00	14.57	6.40	8.17	1.783	
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	0.00	14.57	0.00	14.57	5.68	8.89	1.639	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	0.00	14.57	0.00	14.57	4.96	9.61	1.517	
1,500.00	1,500.00	1,500.00	1,500.00	5.16	5.16	0.00	14.57	0.00	14.57	4.25	10.32	1.411	Level 3
1,600.00	1,600.00	1,600.00	1,600.00	5.52	5.52	0.00	14.57	0.00	14.57	3.53	11.04	1.320	Level 3
1,700.00	1,700.00	1,700.00	1,700.00	5.88	5.88	0.00	14.57	0.00	14.57	2.81	11.76	1.239	Level 3
1,800.00	1,800.00	1,800.00	1,800.00	6.24	6.24	0.00	14.57	0.00	14.57	2.10	12.47	1.168	Level 3
1,900.00	1,900.00	1,900.00	1,900.00	6.60	6.60	0.00	14.57	0.00	14.57	1.38	13.19	1.105	Level 3
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	0.00	14.57	0.00	14.57	0.66	13.91	1.048	Level 3
2,100.00	2,100.00	2,100.00	2,100.00	7.31	7.31	0.00	14.57	0.00	14.57	-0.05	14.63	0.996	Level 3, CC, ES, SF
2,200.00	2,200.00	2,199.48	2,199.46	7.67	7.67	2.02	16.20	0.57	16.22	0.89	15.33	1.058	Level 3
2,300.00	2,299.98	2,298.82	2,298.66	8.03	8.02	5.87	21.08	2.28	19.51	3.49	16.02	1.218	Level 3
2,400.00	2,399.84	2,398.01	2,397.48	8.39	8.38	11.91	29.19	5.12	22.89	6.20	16.69	1.371	Level 3
2,500.00	2,499.45	2,497.05	2,495.78	8.75	8.73	18.72	40.50	9.07	26.60	9.26	17.34	1.534	
2,600.00	2,598.70	2,595.91	2,593.43	9.10	9.09	25.78	54.98	14.14	30.86	12.88	17.98	1.716	
2,700.00	2,697.47	2,694.57	2,690.31	9.47	9.46	32.68	72.60	20.31	35.86	17.25	18.61	1.927	
2,800.00	2,795.62	2,793.03	2,786.29	9.84	9.84	39.13	93.31	27.56	41.76	22.51	19.25	2.170	
2,900.00	2,893.06	2,891.27	2,881.25	10.23	10.24	44.97	117.06	35.87	48.66	28.75	19.91	2.444	
3,000.00	2,989.64	2,989.28	2,975.07	10.63	10.66	50.14	143.80	45.23	56.60	35.99	20.61	2.746	
3,100.00	3,085.27	3,087.04	3,067.63	11.05	11.10	54.65	173.48	55.62	65.62	44.26	21.37	3.071	
3,200.00	3,179.82	3,184.54	3,158.82	11.50	11.57	58.56	206.04	67.01	75.72	53.54	22.18	3.414	
3,300.00	3,273.17	3,281.78	3,248.54	11.98	12.07	61.93	241.40	79.38	86.88	63.82	23.06	3.768	
3,400.00	3,365.21	3,378.74	3,336.70	12.49	12.60	64.84	279.50	92.72	99.09	75.08	24.01	4.126	
3,500.00	3,455.84	3,475.42	3,423.18	13.04	13.17	67.35	320.27	106.99	112.33	87.28	25.05	4.484	
3,506.72	3,461.88	3,481.90	3,428.93	13.08	13.21	67.50	323.11	107.98	113.25	88.13	25.12	4.508	
3,600.00	3,545.62	3,571.77	3,507.88	13.62	13.78	69.14	363.63	122.16	127.10	100.97	26.13	4.865	
3,700.00	3,635.40	3,667.62	3,590.55	14.23	14.43	69.52	409.39	138.18	143.92	116.75	27.18	5.296	
3,800.00	3,725.17	3,762.75	3,670.95	14.85	15.11	68.90	457.38	154.97	162.73	134.54	28.19	5.773	
3,900.00	3,814.95	3,858.06	3,749.85	15.50	15.84	67.65	507.84	172.64	183.47	154.27	29.20	6.284	
4,000.00	3,904.73	3,955.68	3,830.21	16.15	16.61	66.44	560.16	190.95	204.81	174.47	30.34	6.751	
4,100.00	3,994.50	4,053.29	3,910.56	16.82	17.41	65.47	612.47	209.25	226.21	194.71	31.51	7.180	
4,200.00	4,084.28	4,150.91	3,990.92	17.51	18.23	64.66	664.78	227.56	247.67	214.96	32.70	7.573	
4,300.00	4,174.06	4,248.53	4,071.28	18.20	19.07	63.98	717.10	245.87	269.16	235.24	33.93	7.934	
4,400.00	4,263.83	4,346.14	4,151.63	18.90	19.92	63.40	769.41	264.18	290.69	255.52	35.17	8.265	
4,500.00	4,353.61	4,443.76	4,231.99	19.62	20.78	62.90	821.72	282.49	312.24	275.81	36.43	8.570	
4,600.00	4,443.38	4,541.38	4,312.34	20.33	21.66	62.47	874.03	300.80	333.81	296.10	37.71	8.852	
4,700.00	4,533.16	4,638.99	4,392.70	21.06	22.54	62.08	926.35	319.11	355.40	316.39	39.00	9.112	
4,800.00	4,622.94	4,736.61	4,473.06	21.79	23.43	61.75	978.66	337.42	377.00	336.69	40.31	9.352	
4,900.00	4,712.71	4,834.23	4,553.41	22.53	24.33	61.44	1,030.97	355.72	398.61	356.98	41.63	9.575	
5,000.00	4,802.49	4,931.84	4,633.77	23.27	25.24	61.17	1,083.29	374.03	420.23	377.27	42.96	9.783	

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 11-10-5H
<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 11-10-5H	<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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Warning			
5,100.00	4,892.27	5,029.46	4,714.13	24.02	26.16	60.93	1,135.60	392.34	441.86	397.56	44.29	9.976				
5,200.00	4,982.04	5,127.08	4,794.48	24.77	27.08	60.71	1,187.91	410.65	463.49	417.85	45.64	10.156				
5,300.00	5,071.82	5,224.69	4,874.84	25.53	28.00	60.51	1,240.23	428.96	485.13	438.14	46.99	10.324				
5,400.00	5,161.59	5,322.31	4,955.19	26.29	28.93	60.32	1,292.54	447.27	506.78	458.43	48.35	10.481				
5,500.00	5,251.37	5,419.93	5,035.55	27.05	29.87	60.15	1,344.85	465.58	528.43	478.71	49.72	10.628				
5,600.00	5,341.15	5,517.54	5,115.91	27.81	30.81	60.00	1,397.17	483.88	550.09	499.00	51.09	10.767				
5,700.00	5,430.92	5,615.16	5,196.26	28.58	31.75	59.85	1,449.48	502.19	571.75	519.28	52.47	10.897				
5,800.00	5,520.70	5,712.77	5,276.62	29.35	32.69	59.72	1,501.79	520.50	593.41	539.56	53.85	11.019				
5,900.00	5,610.48	5,810.39	5,356.98	30.12	33.64	59.60	1,554.10	538.81	615.07	559.83	55.24	11.135				
6,000.00	5,700.25	5,908.01	5,437.33	30.90	34.59	59.48	1,606.42	557.12	636.74	580.11	56.63	11.244				
6,100.00	5,790.03	6,005.62	5,517.69	31.67	35.55	59.37	1,658.73	575.43	658.41	600.39	58.02	11.347				
6,200.00	5,879.81	6,103.24	5,598.05	32.45	36.50	59.27	1,711.04	593.74	680.08	620.66	59.42	11.445				
6,300.00	5,969.58	6,200.86	5,678.40	33.23	37.46	59.17	1,763.36	612.05	701.76	640.93	60.82	11.537				
6,400.00	6,059.36	6,298.47	5,758.76	34.01	38.42	59.09	1,815.67	630.35	723.43	661.20	62.23	11.625				
6,500.00	6,149.13	6,396.09	5,839.11	34.79	39.38	59.00	1,867.98	648.66	745.11	681.47	63.64	11.709				
6,600.00	6,238.91	6,493.71	5,919.47	35.58	40.34	58.92	1,920.30	666.97	766.79	701.74	65.05	11.788				
6,700.00	6,328.69	6,591.32	5,999.83	36.36	41.31	58.85	1,972.61	685.28	788.47	722.01	66.46	11.864				
6,800.00	6,418.46	6,688.94	6,080.18	37.15	42.27	58.78	2,024.92	703.59	810.15	742.27	67.88	11.936				
6,900.00	6,508.24	6,786.56	6,160.54	37.94	43.24	58.71	2,077.24	721.90	831.83	762.54	69.29	12.005				
7,000.00	6,598.02	6,884.18	6,240.90	38.73	44.21	-1.82	2,129.55	740.21	853.51	782.81	70.70	12.074				
7,100.00	6,687.79	6,981.80	6,321.26	39.52	45.18	-1.72	2,181.86	758.52	875.19	803.09	72.11	12.143				
7,156.65	6,738.65	6,265.25	6,963.00	39.96	49.64	-1.66	2,592.23	19.74	727.29	674.83	52.46	13.865				
7,200.00	6,777.55	6,266.47	6,963.00	40.31	49.64	11.01	2,592.22	18.51	697.84	643.84	54.00	12.924				
7,250.00	6,822.15	6,271.94	6,963.00	40.70	49.63	24.18	2,592.17	13.04	665.93	610.06	55.87	11.920				
7,300.00	6,866.16	6,281.72	6,963.00	41.09	49.63	35.34	2,592.09	3.26	636.69	578.90	57.79	11.018				
7,350.00	6,909.24	6,295.74	6,963.00	41.47	49.62	44.31	2,591.97	-10.75	610.52	550.81	59.71	10.224				
7,400.00	6,951.05	6,313.88	6,963.00	41.83	49.60	51.18	2,591.82	-28.90	587.76	526.16	61.60	9.541				
7,450.00	6,991.29	6,336.01	6,963.00	42.19	49.59	56.17	2,591.64	-51.03	568.60	505.22	63.38	8.971				
7,500.00	7,029.64	6,361.97	6,963.00	42.53	49.58	59.55	2,591.42	-76.99	553.12	488.12	65.00	8.510				
7,550.00	7,065.81	6,391.55	6,963.00	42.86	49.58	61.58	2,591.17	-106.56	541.20	474.79	66.40	8.150				
7,600.00	7,099.54	6,424.53	6,963.00	43.17	49.57	62.52	2,590.89	-139.54	532.60	464.97	67.63	7.875				
7,650.00	7,130.55	6,460.66	6,963.00	43.47	49.57	62.62	2,590.59	-175.67	526.94	458.28	68.66	7.675				
7,700.00	7,158.62	6,499.66	6,963.00	43.76	49.59	62.09	2,590.26	-214.67	523.72	454.22	69.51	7.535				
7,750.00	7,183.53	6,541.23	6,963.00	44.03	49.61	61.16	2,589.91	-256.24	522.43	452.15	70.28	7.433				
7,771.08	7,193.03	6,559.45	6,963.00	44.14	49.63	60.69	2,589.76	-274.46	522.32	451.73	70.59	7.400				
7,800.00	7,205.09	6,585.07	6,963.00	44.30	49.65	60.01	2,589.55	-300.08	522.49	451.51	70.98	7.361				
7,850.00	7,223.14	6,630.83	6,963.00	44.55	49.71	58.82	2,589.16	-345.84	523.40	451.70	71.70	7.300				
7,900.00	7,237.54	6,678.17	6,963.00	44.80	49.80	57.73	2,588.77	-393.18	524.67	452.21	72.46	7.241				
7,950.00	7,248.18	6,726.73	6,963.00	45.04	49.92	56.85	2,588.36	-441.74	525.92	452.59	73.33	7.172				
8,000.00	7,254.98	6,776.14	6,963.00	45.28	50.07	56.26	2,587.94	-491.14	526.86	452.54	74.32	7.089				
8,050.00	7,257.88	6,826.02	6,963.00	45.51	50.27	55.99	2,587.53	-541.02	527.29	451.83	75.47	6.987				
8,062.16	7,258.00	6,838.18	6,963.00	45.57	50.33	55.98	2,587.42	-553.17	527.31	451.54	75.77	6.959				
8,100.00	7,258.00	6,876.02	6,963.00	45.75	50.53	55.98	2,587.11	-591.02	527.31	450.57	76.74	6.871				
8,200.00	7,258.00	6,976.02	6,963.00	46.30	51.24	55.98	2,586.27	-691.01	527.31	447.86	79.45	6.637				
8,300.00	7,258.00	9,076.02	6,963.00	46.98	52.25	55.98	2,585.43	-791.01	527.31	444.97	82.34	6.404				
8,400.00	7,258.00	9,176.02	6,963.00	47.79	53.58	55.98	2,584.59	-891.01	527.31	441.93	85.37	6.176				
8,500.00	7,258.00	9,276.02	6,963.00	48.75	55.18	55.98	2,583.75	-991.00	527.31	438.75	88.55	5.955				
8,600.00	7,258.00	9,376.02	6,963.00	49.84	56.99	55.98	2,582.91	-1,091.00	527.31	435.45	91.86	5.741				
8,700.00	7,258.00	9,476.02	6,963.00	51.09	58.95	55.98	2,582.08	-1,190.99	527.31	432.03	95.27	5.535				
8,800.00	7,258.00	9,576.02	6,963.00	52.47	61.02	55.98	2,581.24	-1,290.99	527.31	428.52	98.79	5.338				
8,900.00	7,258.00	9,676.02	6,963.00	53.99	63.18	55.98	2,580.40	-1,390.99	527.31	424.91	102.39	5.150				
9,000.00	7,258.00	9,776.02	6,963.00	55.62	65.39	55.98	2,579.56	-1,490.98	527.31	421.23	106.08	4.971				

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 11-10-5H
<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 11-10-5H	<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														Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Offset				Semi Major Axis		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					
9,100.00	7,258.00	9,876.02	6,963.00	57.37	67.66	55.98	2,578.72	-1,590.98	527.31	417.47	109.83	4.801					
9,200.00	7,258.00	9,976.02	6,963.00	59.21	69.97	55.98	2,577.88	-1,690.98	527.31	413.65	113.65	4.640					
9,300.00	7,258.00	10,076.02	6,963.00	61.14	72.32	55.98	2,577.05	-1,790.97	527.31	409.78	117.53	4.487					
9,400.00	7,258.00	10,176.02	6,963.00	63.14	74.70	55.98	2,576.21	-1,890.97	527.31	405.85	121.46	4.341					
9,500.00	7,258.00	10,276.02	6,963.00	65.21	77.10	55.98	2,575.37	-1,990.97	527.31	401.87	125.44	4.204					
9,600.00	7,258.00	10,376.02	6,963.00	67.33	79.53	55.98	2,574.53	-2,090.96	527.31	397.85	129.46	4.073					
9,700.00	7,258.00	10,476.02	6,963.00	69.51	81.97	55.98	2,573.69	-2,190.96	527.30	393.79	133.51	3.949					
9,800.00	7,258.00	10,576.02	6,963.00	71.73	84.44	55.98	2,572.85	-2,290.96	527.30	389.70	137.61	3.832					
9,900.00	7,258.00	10,676.02	6,963.00	74.00	86.92	55.98	2,572.01	-2,390.95	527.30	385.57	141.73	3.720					
10,000.00	7,258.00	10,776.02	6,963.00	76.30	89.41	55.98	2,571.18	-2,490.95	527.30	381.42	145.88	3.615					
10,100.00	7,258.00	10,876.02	6,963.00	78.63	91.92	55.98	2,570.34	-2,590.95	527.30	377.24	150.07	3.514					
10,200.00	7,258.00	10,976.02	6,963.00	80.99	94.44	55.98	2,569.50	-2,690.94	527.30	373.03	154.27	3.418					
10,300.00	7,258.00	11,076.02	6,963.00	83.37	96.97	55.98	2,568.66	-2,790.94	527.30	368.81	158.50	3.327					
10,400.00	7,258.00	11,176.02	6,963.00	85.78	99.51	55.98	2,567.82	-2,890.93	527.30	364.56	162.75	3.240					
10,500.00	7,258.00	11,276.02	6,963.00	88.21	102.06	55.98	2,566.98	-2,990.93	527.30	360.29	167.01	3.157					
10,600.00	7,258.00	11,376.02	6,963.00	90.65	104.62	55.98	2,566.15	-3,090.93	527.30	356.01	171.30	3.078					
10,700.00	7,258.00	11,476.02	6,963.00	93.12	107.19	55.98	2,565.31	-3,190.92	527.30	351.70	175.60	3.003					
10,800.00	7,258.00	11,576.02	6,963.00	95.59	109.77	55.98	2,564.47	-3,290.92	527.30	347.39	179.91	2.931					
10,900.00	7,258.00	11,676.02	6,963.00	98.09	112.35	55.98	2,563.63	-3,390.92	527.30	343.06	184.24	2.862					
11,000.00	7,258.00	11,776.02	6,963.00	100.59	114.94	55.98	2,562.79	-3,490.91	527.30	338.71	188.59	2.796					
11,100.00	7,258.00	11,876.02	6,963.00	103.11	117.53	55.98	2,561.95	-3,590.91	527.30	334.36	192.94	2.733					
11,200.00	7,258.00	11,976.02	6,963.00	105.64	120.13	55.98	2,561.11	-3,690.91	527.30	329.99	197.31	2.672					
11,300.00	7,258.00	12,076.02	6,963.00	108.18	122.73	55.98	2,560.28	-3,790.90	527.30	325.61	201.69	2.614					
11,400.00	7,258.00	12,176.02	6,963.00	110.73	125.34	55.98	2,559.44	-3,890.90	527.30	321.23	206.07	2.559					
11,500.00	7,258.00	12,276.02	6,963.00	113.29	127.96	55.98	2,558.60	-3,990.90	527.30	316.83	210.47	2.505					
11,600.00	7,258.00	12,376.02	6,963.00	115.85	130.58	55.98	2,557.76	-4,090.89	527.30	312.42	214.88	2.454					
11,700.00	7,258.00	12,476.02	6,963.00	118.43	133.20	55.98	2,556.92	-4,190.89	527.30	308.01	219.29	2.405					
11,800.00	7,258.00	12,576.02	6,963.00	121.01	135.82	55.98	2,556.08	-4,290.89	527.30	303.59	223.71	2.357					
11,900.00	7,258.00	12,676.02	6,963.00	123.59	138.45	55.98	2,555.25	-4,390.88	527.30	299.16	228.14	2.311					
12,000.00	7,258.00	12,776.02	6,963.00	126.18	141.09	55.98	2,554.41	-4,490.88	527.30	294.73	232.57	2.267					
12,100.00	7,258.00	12,876.02	6,963.00	128.78	143.72	55.98	2,553.57	-4,590.88	527.30	290.28	237.01	2.225					
12,200.00	7,258.00	12,976.02	6,963.00	131.39	146.36	55.98	2,552.73	-4,690.87	527.30	285.84	241.46	2.184					
12,300.00	7,258.00	13,076.02	6,963.00	133.99	149.01	55.98	2,551.89	-4,790.87	527.30	281.38	245.91	2.144					
12,400.00	7,258.00	13,176.02	6,963.00	136.61	151.65	55.98	2,551.05	-4,890.86	527.30	276.92	250.37	2.106					
12,500.00	7,258.00	13,276.02	6,963.00	139.22	154.30	55.98	2,550.21	-4,990.86	527.30	272.46	254.84	2.069					
12,600.00	7,258.00	13,376.02	6,963.00	141.84	156.95	55.98	2,549.38	-5,090.86	527.30	267.99	259.31	2.034					
12,700.00	7,258.00	13,476.02	6,963.00	144.47	159.60	55.98	2,548.54	-5,190.85	527.30	263.52	263.78	1.999					
12,800.00	7,258.00	13,576.02	6,963.00	147.10	162.26	55.98	2,547.70	-5,290.85	527.30	259.04	268.26	1.966					
12,900.00	7,258.00	13,676.02	6,963.00	149.73	164.91	55.98	2,546.86	-5,390.85	527.30	254.56	272.74	1.933					
13,000.00	7,258.00	13,776.02	6,963.00	152.37	167.57	55.98	2,546.02	-5,490.84	527.30	250.07	277.22	1.902					
13,100.00	7,258.00	13,876.02	6,963.00	155.01	170.23	55.98	2,545.18	-5,590.84	527.30	245.58	281.71	1.872					
13,200.00	7,258.00	13,976.02	6,963.00	157.65	172.89	55.98	2,544.34	-5,690.84	527.30	241.09	286.21	1.842					
13,300.00	7,258.00	14,076.02	6,963.00	160.29	175.56	55.98	2,543.51	-5,790.83	527.30	236.59	290.70	1.814					
13,400.00	7,258.00	14,176.02	6,963.00	162.94	178.22	55.98	2,542.67	-5,890.83	527.30	232.09	295.20	1.786					
13,500.00	7,258.00	14,276.02	6,963.00	165.59	180.89	55.98	2,541.83	-5,990.83	527.30	227.59	299.71	1.759					
13,600.00	7,258.00	14,376.02	6,963.00	168.24	183.56	55.98	2,540.99	-6,090.82	527.29	223.08	304.21	1.733					
13,700.00	7,258.00	14,476.02	6,963.00	170.89	186.23	55.98	2,540.15	-6,190.82	527.29	218.57	308.72	1.708					
13,800.00	7,258.00	14,576.02	6,963.00	173.55	188.90	55.98	2,539.31	-6,290.82	527.29	214.06	313.23	1.683					
13,900.00	7,258.00	14,676.02	6,963.00	176.21	191.58	55.98	2,538.48	-6,390.81	527.29	209.55	317.75	1.659					
14,000.00	7,258.00	14,776.02	6,963.00	178.87	194.25	55.98	2,537.64	-6,490.81	527.29	205.03	322.26	1.636					
14,100.00	7,258.00	14,876.02	6,963.00	181.53	196.93	55.98	2,536.80	-6,590.80	527.29	200.51	326.78	1.614					
14,200.00	7,258.00	14,976.02	6,963.00	184.19	199.61	55.98	2,535.96	-6,690.80	527.29	195.99	331.30	1.592					

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 11-10-5H
<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 11-10-5H	<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				
14,300.00	7,258.00	15,076.02	6,963.00	186.86	202.28	55.98	2,535.12	-6,790.80	527.29	191.47	335.83	1.570				
14,400.00	7,258.00	15,176.02	6,963.00	189.53	204.96	55.98	2,534.28	-6,890.79	527.29	186.94	340.35	1.549				
14,500.00	7,258.00	15,276.02	6,963.00	192.20	207.64	55.98	2,533.44	-6,990.79	527.29	182.41	344.88	1.529				
14,600.00	7,258.00	15,376.02	6,963.00	194.87	210.32	55.98	2,532.61	-7,090.79	527.29	177.88	349.41	1.509				
14,700.00	7,258.00	15,476.02	6,963.00	197.54	213.01	55.98	2,531.77	-7,190.78	527.29	173.35	353.94	1.490	Level 3			
14,800.00	7,258.00	15,576.02	6,963.00	200.21	215.69	55.98	2,530.93	-7,290.78	527.29	168.82	358.48	1.471	Level 3			
14,900.00	7,258.00	15,676.02	6,963.00	202.89	218.37	55.98	2,530.09	-7,390.78	527.29	164.28	363.01	1.453	Level 3			
15,000.00	7,258.00	15,776.02	6,963.00	205.56	221.06	55.98	2,529.25	-7,490.77	527.29	159.74	367.55	1.435	Level 3			
15,100.00	7,258.00	15,876.02	6,963.00	208.24	223.75	55.98	2,528.41	-7,590.77	527.29	155.21	372.09	1.417	Level 3			
15,200.00	7,258.00	15,976.02	6,963.00	210.92	226.43	55.98	2,527.58	-7,690.77	527.29	150.67	376.63	1.400	Level 3			
15,300.00	7,258.00	16,076.02	6,963.00	213.60	229.12	55.98	2,526.74	-7,790.76	527.29	146.12	381.17	1.383	Level 3			
15,400.00	7,258.00	16,176.02	6,963.00	216.28	231.81	55.98	2,525.90	-7,890.76	527.29	141.58	385.71	1.367	Level 3			
15,500.00	7,258.00	16,276.02	6,963.00	218.96	234.50	55.98	2,525.06	-7,990.76	527.29	137.04	390.25	1.351	Level 3			
15,600.00	7,258.00	16,376.02	6,963.00	221.64	237.19	55.98	2,524.22	-8,090.75	527.29	132.49	394.80	1.336	Level 3			
15,700.00	7,258.00	16,476.02	6,963.00	224.32	239.88	55.98	2,523.38	-8,190.75	527.29	127.94	399.35	1.320	Level 3			
15,800.00	7,258.00	16,576.02	6,963.00	227.01	242.57	55.98	2,522.54	-8,290.75	527.29	123.39	403.89	1.306	Level 3			
15,822.67	7,258.00	16,598.69	6,963.00	227.62	243.18	55.98	2,522.35	-8,313.41	527.29	122.36	404.93	1.302	Level 3			
15,837.79	7,258.00	16,598.86	6,963.00	228.02	243.19	55.98	2,522.35	-8,313.58	527.50	121.21	406.29	1.298	Level 3			

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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											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	24.11	1,841.91	824.42	2,017.99					
100.00	100.00	90.85	90.85	0.14	0.27	24.11	1,842.15	824.56	2,018.33	2,017.91	0.41	4,863.602		
200.00	200.00	189.33	189.33	0.50	0.62	24.11	1,843.12	824.71	2,019.28	2,018.16	1.12	1,798.502		
300.00	300.00	343.26	343.18	0.86	1.16	23.98	1,844.55	820.58	2,019.18	2,017.16	2.03	996.997		
400.00	400.00	500.33	499.82	1.22	1.73	23.70	1,843.39	809.28	2,015.39	2,012.44	2.95	682.515		
500.00	500.00	618.11	616.84	1.58	2.19	23.36	1,842.67	796.00	2,010.30	2,006.55	3.76	535.153		
600.00	600.00	749.27	746.66	1.94	2.73	22.88	1,841.86	777.32	2,004.11	1,999.47	4.64	432.080		
700.00	700.00	884.83	880.04	2.29	3.33	22.26	1,840.39	753.21	1,996.16	1,990.58	5.58	357.844		
800.00	800.00	1,010.29	1,002.47	2.65	3.93	21.54	1,838.99	725.89	1,986.80	1,980.30	6.50	305.457		
900.00	900.00	1,135.07	1,123.73	3.01	4.56	20.77	1,836.73	696.57	1,976.41	1,968.95	7.46	264.769		
1,000.00	1,000.00	1,255.75	1,240.33	3.37	5.21	19.95	1,833.37	665.62	1,964.48	1,956.05	8.44	232.881		
1,100.00	1,100.00	1,342.23	1,323.33	3.73	5.72	19.30	1,831.35	641.45	1,952.57	1,943.29	9.28	210.480		
1,200.00	1,200.00	1,421.37	1,398.97	4.09	6.19	18.66	1,830.97	618.18	1,942.12	1,932.03	10.09	192.396		
1,300.00	1,300.00	1,512.38	1,485.69	4.45	6.75	17.87	1,831.33	590.56	1,932.57	1,921.56	11.00	175.647		
1,400.00	1,400.00	1,609.43	1,577.94	4.80	7.36	17.01	1,831.93	560.41	1,923.43	1,911.46	11.97	160.723		
1,500.00	1,500.00	1,704.70	1,668.09	5.16	7.98	16.12	1,832.87	529.63	1,914.73	1,901.79	12.94	147.934		
1,600.00	1,600.00	1,801.68	1,759.88	5.52	8.62	15.20	1,833.74	498.37	1,906.48	1,892.54	13.94	136.753		
1,700.00	1,700.00	1,875.04	1,829.43	5.88	9.10	14.52	1,834.61	475.03	1,899.13	1,884.34	14.79	128.389		
1,800.00	1,800.00	1,974.64	1,924.24	6.24	9.74	13.61	1,836.21	444.57	1,892.96	1,877.16	15.80	119.818		
1,900.00	1,900.00	2,068.83	2,013.93	6.60	10.35	12.75	1,837.36	415.82	1,886.91	1,870.14	16.78	112.466		
2,000.00	2,000.00	2,200.64	2,138.29	6.95	11.25	11.44	1,838.65	372.17	1,880.59	1,862.56	18.04	104.256		
2,100.00	2,100.00	2,307.51	2,238.93	7.31	12.00	10.37	1,838.24	336.22	1,873.45	1,854.30	19.16	97.798		
2,200.00	2,200.00	2,404.65	2,329.60	7.67	12.71	9.31	1,837.96	301.38	1,866.60	1,846.36	20.24	92.234		
2,300.00	2,299.98	2,504.08	2,421.95	8.03	13.46	7.45	1,837.62	264.53	1,858.46	1,837.09	21.36	86.995		
2,400.00	2,399.84	2,600.53	2,511.60	8.39	14.19	6.40	1,836.93	228.99	1,847.24	1,824.78	22.46	82.238		
2,500.00	2,499.45	2,689.05	2,594.69	8.75	14.83	5.50	1,836.01	198.47	1,833.26	1,809.78	23.48	78.088		
2,600.00	2,598.70	2,771.23	2,672.46	9.10	15.40	4.72	1,835.34	171.93	1,816.85	1,792.42	24.42	74.389		
2,700.00	2,697.47	2,850.19	2,746.89	9.47	15.95	3.93	1,835.37	145.56	1,798.23	1,772.88	25.35	70.938		
2,800.00	2,795.62	2,950.01	2,841.07	9.84	16.65	2.91	1,835.63	112.50	1,776.99	1,750.57	26.42	67.262		
2,900.00	2,893.06	3,080.91	2,964.44	10.23	17.57	1.50	1,833.95	68.79	1,751.39	1,723.70	27.69	63.247		
3,000.00	2,989.64	3,173.24	3,051.71	10.63	18.22	0.49	1,831.60	38.74	1,721.95	1,693.25	28.70	59.993		
3,100.00	3,085.27	3,254.89	3,128.45	11.05	18.80	-0.49	1,829.98	10.88	1,690.21	1,660.56	29.65	57.006		
3,200.00	3,179.82	3,347.86	3,215.73	11.50	19.47	-1.69	1,828.07	-21.05	1,655.75	1,625.07	30.68	53.971		
3,300.00	3,273.17	3,435.58	3,298.42	11.98	20.09	-2.87	1,826.12	-50.28	1,618.52	1,586.86	31.66	51.125		
3,400.00	3,365.21	3,514.00	3,372.43	12.49	20.64	-4.00	1,824.51	-76.14	1,578.86	1,546.29	32.57	48.481		
3,500.00	3,455.84	3,590.02	3,444.03	13.04	21.19	-5.21	1,823.30	-101.66	1,537.13	1,503.66	33.47	45.931		
3,506.72	3,461.88	3,594.92	3,448.64	13.08	21.22	-5.29	1,823.24	-103.33	1,534.26	1,500.74	33.52	45.765		
3,600.00	3,545.62	3,652.17	3,502.35	13.62	21.64	-6.21	1,822.87	-123.15	1,495.19	1,460.92	34.28	43.621		
3,700.00	3,635.40	3,705.00	3,551.73	14.23	22.03	-7.10	1,823.30	-141.92	1,455.53	1,420.51	35.02	41.568		
3,800.00	3,725.17	3,773.64	3,615.44	14.85	22.57	-8.35	1,824.82	-167.41	1,418.15	1,382.26	35.89	39.513		
3,900.00	3,814.95	3,851.97	3,687.51	15.50	23.20	-9.87	1,827.35	-197.97	1,382.96	1,346.11	36.86	37.524		
4,000.00	3,904.73	3,939.90	3,768.29	16.15	23.91	-11.67	1,829.90	-232.61	1,348.87	1,310.96	37.91	35.584		
4,100.00	3,994.50	4,040.83	3,861.22	16.82	24.72	-13.82	1,832.41	-271.91	1,315.81	1,276.76	39.05	33.694		
4,200.00	4,084.28	4,189.72	4,000.41	17.51	25.85	-16.99	1,832.54	-324.72	1,281.56	1,241.06	40.50	31.644		
4,300.00	4,174.06	4,255.01	4,061.72	18.20	26.32	-18.43	1,831.63	-347.12	1,247.07	1,205.75	41.32	30.181		
4,400.00	4,263.83	4,325.40	4,127.68	18.90	26.84	-20.05	1,831.22	-371.72	1,214.99	1,172.82	42.17	28.813		
4,500.00	4,353.61	4,397.22	4,194.85	19.62	27.38	-21.77	1,831.51	-397.15	1,185.47	1,142.46	43.01	27.560		
4,600.00	4,443.38	4,471.76	4,264.44	20.33	27.94	-23.61	1,832.40	-423.83	1,158.52	1,114.66	43.87	26.411		
4,700.00	4,533.16	4,551.30	4,338.67	21.06	28.54	-25.63	1,833.85	-452.37	1,134.02	1,089.28	44.74	25.346		
4,800.00	4,622.94	4,631.52	4,413.59	21.79	29.14	-27.71	1,835.78	-480.97	1,111.90	1,066.30	45.60	24.383		
4,900.00	4,712.71	4,731.30	4,507.03	22.53	29.88	-30.35	1,838.27	-515.90	1,091.72	1,045.10	46.62	23.418		
5,000.00	4,802.49	4,809.58	4,580.43	23.27	30.47	-32.48	1,839.57	-543.07	1,072.99	1,025.57	47.43	22.624		

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 11-10-5H
<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 11-10-5H	<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											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,892.27	4,891.76	4,657.09	24.02	31.08	-34.81	1,841.13	-572.63	1,057.43	1,009.18	48.25	21.916		
5,200.00	4,982.04	4,992.88	4,751.55	24.77	31.85	-37.75	1,842.22	-608.72	1,043.74	994.49	49.25	21.194		
5,300.00	5,071.82	5,098.31	4,850.57	25.53	32.61	-40.88	1,841.86	-644.89	1,030.95	980.70	50.25	20.516		
5,400.00	5,161.59	5,193.84	4,941.02	26.29	33.28	-43.69	1,841.42	-675.62	1,019.44	968.31	51.13	19.937		
5,500.00	5,251.37	5,282.30	5,025.11	27.05	33.87	-46.30	1,841.25	-703.09	1,010.04	958.12	51.92	19.453		
5,600.00	5,341.15	5,364.71	5,103.60	27.81	34.42	-48.72	1,841.59	-728.19	1,003.22	950.58	52.64	19.058		
5,700.00	5,430.92	5,441.58	5,176.67	28.58	34.93	-51.00	1,842.09	-752.06	999.60	946.32	53.28	18.761		
5,752.14	5,477.73	5,480.58	5,213.71	28.98	35.20	-52.15	1,842.73	-764.26	999.12	945.52	53.60	18.641		
5,800.00	5,520.70	5,518.91	5,250.10	29.35	35.46	-53.27	1,843.71	-776.25	999.52	945.60	53.91	18.540		
5,900.00	5,610.48	5,641.59	5,367.21	30.12	36.25	-56.81	1,846.10	-812.69	1,000.74	945.73	55.01	18.192		
6,000.00	5,700.25	5,757.51	5,478.94	30.90	36.94	-60.13	1,846.67	-843.56	1,001.39	945.39	56.00	17.882		
6,100.00	5,790.03	5,877.48	5,595.70	31.67	37.58	-63.46	1,847.00	-871.03	1,001.25	944.26	56.99	17.569		
6,130.13	5,817.08	5,927.17	5,644.33	31.91	37.83	-64.84	1,846.70	-881.18	1,000.91	943.54	57.36	17.448		
6,164.89	5,848.28	5,955.92	5,672.50	32.18	37.97	-65.65	1,846.33	-886.96	1,000.74	943.12	57.62	17.369		
6,200.00	5,879.81	5,984.84	5,700.80	32.45	38.11	-66.46	1,845.87	-892.86	1,000.92	943.04	57.87	17.295		
6,300.00	5,969.58	6,095.68	5,809.40	33.23	38.64	-69.64	1,842.62	-914.81	1,002.21	943.43	58.78	17.050		
6,400.00	6,059.36	6,224.05	5,935.71	34.01	39.20	-73.39	1,835.84	-936.59	1,003.04	943.28	59.75	16.787		
6,500.00	6,149.13	6,375.27	6,085.48	34.79	39.75	-77.79	1,826.29	-954.92	1,002.39	941.71	60.68	16.520		
6,600.00	6,238.91	6,499.40	6,209.21	35.58	40.08	-81.25	1,820.16	-962.58	999.17	937.68	61.49	16.250		
6,700.00	6,328.69	6,223.60	7,259.27	36.36	45.79	175.55	1,801.05	48.76	930.53	901.88	28.65	32.481		
6,800.00	6,418.46	8,221.41	7,259.33	37.15	45.77	175.95	1,801.10	46.57	837.18	808.24	28.94	28.926		
6,900.00	6,508.24	8,219.12	7,259.39	37.94	45.74	176.36	1,801.15	44.28	745.55	715.97	29.59	25.199		
7,000.00	6,598.02	8,216.71	7,259.46	38.73	45.71	176.80	1,801.20	41.87	656.36	625.50	30.86	21.270		
7,100.00	6,687.79	8,214.18	7,259.53	39.52	45.69	177.25	1,801.25	39.34	570.76	537.52	33.23	17.175		
7,156.65	6,738.65	8,212.68	7,259.57	39.96	45.67	177.53	1,801.29	37.85	524.52	489.20	35.32	14.850		
7,200.00	6,777.55	8,210.00	7,259.64	40.31	45.64	-178.62	1,801.35	35.17	490.66	453.27	37.39	13.123		
7,250.00	6,822.15	8,203.05	7,259.85	40.70	45.56	-173.16	1,801.51	28.22	453.88	413.55	40.33	11.254		
7,300.00	6,866.16	8,191.86	7,260.20	41.09	45.43	-167.13	1,801.80	17.05	420.22	376.35	43.87	9.579		
7,350.00	6,909.24	8,176.13	7,260.75	41.47	45.26	-160.84	1,802.24	1.33	390.39	342.47	47.93	8.145		
7,400.00	6,951.05	8,154.43	7,261.55	41.83	45.04	-154.20	1,803.00	-20.34	364.99	312.70	52.29	6.980		
7,450.00	6,991.29	8,128.00	7,262.59	42.19	44.78	-147.42	1,804.19	-46.73	344.37	287.65	56.72	6.071		
7,500.00	7,029.64	8,100.15	7,263.66	42.53	44.48	-140.94	1,805.79	-74.51	328.57	267.59	60.98	5.389		
7,550.00	7,065.81	8,056.44	7,265.45	42.86	44.10	-132.79	1,808.98	-118.06	317.30	252.84	64.47	4.922		
7,600.00	7,099.54	8,010.08	7,266.06	43.17	43.70	-124.82	1,813.47	-164.20	309.17	241.74	67.43	4.585		
7,650.00	7,130.55	7,966.20	7,265.20	43.47	43.35	-117.66	1,818.51	-207.78	303.53	233.69	69.84	4.346		
7,700.00	7,158.62	7,927.06	7,262.09	43.76	43.05	-111.30	1,822.38	-246.59	300.61	228.95	71.66	4.195		
7,729.97	7,173.94	7,904.27	7,259.17	43.92	42.88	-107.65	1,824.25	-269.11	300.15	227.75	72.40	4.146	CC	
7,750.00	7,183.53	7,893.00	7,257.44	44.03	42.79	-105.72	1,825.07	-280.22	300.37	227.66	72.71	4.131	ES, SF	
7,800.00	7,205.09	7,856.00	7,250.21	44.30	42.55	-99.97	1,827.03	-316.45	302.73	229.65	73.08	4.142		
7,850.00	7,223.14	7,823.53	7,241.92	44.55	42.33	-94.93	1,827.72	-347.83	307.61	234.84	72.77	4.227		
7,900.00	7,237.54	7,790.16	7,231.57	44.80	42.12	-90.04	1,827.45	-379.55	314.61	242.66	71.95	4.372		
7,950.00	7,248.18	7,747.23	7,216.83	45.04	41.88	-84.74	1,826.83	-419.86	322.34	251.47	70.87	4.549		
8,000.00	7,254.98	7,703.36	7,200.70	45.28	41.66	-80.10	1,826.45	-460.66	329.63	260.01	69.61	4.735		
8,050.00	7,257.88	7,661.56	7,184.02	45.51	41.50	-76.28	1,826.24	-498.98	336.07	267.76	68.31	4.920		
8,062.16	7,258.00	7,651.43	7,179.73	45.57	41.46	-75.44	1,826.19	-508.16	337.49	269.51	67.99	4.964		
8,100.00	7,258.00	7,620.40	7,166.01	45.75	41.33	-73.19	1,826.08	-535.99	342.34	275.43	66.92	5.116		
8,200.00	7,258.00	7,543.40	7,127.76	46.30	41.11	-67.18	1,826.18	-602.78	360.64	296.99	63.65	5.666		
8,300.00	7,258.00	7,476.77	7,089.47	46.98	40.96	-61.59	1,826.86	-657.27	388.27	327.99	60.28	6.441		
8,400.00	7,258.00	7,416.00	7,050.70	47.79	40.87	-56.46	1,827.28	-704.05	426.21	368.78	57.44	7.421		
8,500.00	7,258.00	7,370.81	7,019.46	48.75	40.83	-52.74	1,827.37	-736.70	473.91	417.91	56.00	8.463		
8,600.00	7,258.00	7,321.00	6,982.56	49.84	40.80	-48.78	1,827.21	-770.13	530.44	475.56	54.88	9.666		
8,700.00	7,258.00	7,287.45	6,956.49	51.09	40.80	-46.25	1,827.06	-791.24	593.76	538.76	55.00	10.795		

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 11-10-5H
<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 11-10-5H	<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											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)				
8,800.00	7,258.00	7,249.23	6,925.88	52.47	40.80	-43.53	1,826.97	-814.11	662.48	607.41	55.07	12.030		
8,900.00	7,258.00	7,226.00	6,906.81	53.99	40.79	-41.95	1,826.97	-827.39	735.67	679.79	55.87	13.167		
9,000.00	7,258.00	7,177.00	6,865.44	55.62	40.80	-38.84	1,826.91	-853.64	812.40	756.76	55.64	14.601		
9,100.00	7,258.00	7,162.16	6,852.61	57.37	40.81	-37.95	1,826.86	-861.09	892.05	835.37	56.68	15.739		
9,200.00	7,258.00	7,130.00	6,824.35	59.21	40.81	-36.13	1,826.69	-876.43	974.43	917.39	57.04	17.083		
9,300.00	7,258.00	7,130.00	6,824.35	61.14	40.81	-36.13	1,826.69	-876.43	1,058.85	1,000.59	58.26	18.175		
9,400.00	7,258.00	7,097.28	6,795.04	63.14	40.82	-34.40	1,826.36	-890.97	1,144.75	1,086.27	58.48	19.574		
9,500.00	7,258.00	7,078.51	6,778.01	65.21	40.83	-33.47	1,826.07	-898.86	1,232.23	1,173.22	59.01	20.882		
9,600.00	7,258.00	7,035.00	6,737.98	67.33	40.84	-31.49	1,825.12	-915.89	1,321.54	1,262.57	58.97	22.412		
9,700.00	7,258.00	7,035.00	6,737.98	69.51	40.84	-31.49	1,825.12	-915.89	1,410.75	1,350.98	59.77	23.602		
9,800.00	7,258.00	7,035.00	6,737.98	71.73	40.84	-31.49	1,825.12	-915.89	1,501.32	1,440.86	60.46	24.830		
9,900.00	7,258.00	7,035.00	6,737.98	74.00	40.84	-31.49	1,825.12	-915.89	1,593.02	1,531.96	61.07	26.087		
10,000.00	7,258.00	7,035.00	6,737.98	76.30	40.84	-31.49	1,825.12	-915.89	1,685.67	1,624.07	61.59	27.369		
10,100.00	7,258.00	6,994.12	6,699.68	78.63	40.84	-29.79	1,824.14	-930.13	1,777.69	1,716.19	61.50	28.904		
10,200.00	7,258.00	6,983.66	6,689.78	80.99	40.84	-29.37	1,823.92	-933.47	1,871.03	1,809.21	61.82	30.264		
10,300.00	7,258.00	6,973.93	6,680.52	83.37	40.84	-29.00	1,823.73	-936.48	1,964.86	1,902.74	62.12	31.630		
10,400.00	7,258.00	6,940.00	6,648.00	85.78	40.84	-27.74	1,823.14	-946.14	2,059.63	1,997.51	62.12	33.154		
10,500.00	7,258.00	6,940.00	6,648.00	88.21	40.84	-27.74	1,823.14	-946.14	2,154.02	2,091.53	62.49	34.472		
10,600.00	7,258.00	6,940.00	6,648.00	90.65	40.84	-27.74	1,823.14	-946.14	2,248.89	2,186.07	62.81	35.803		
10,700.00	7,258.00	6,940.00	6,648.00	93.12	40.84	-27.74	1,823.14	-946.14	2,344.18	2,281.07	63.11	37.144		
10,800.00	7,258.00	6,940.00	6,648.00	95.59	40.84	-27.74	1,823.14	-946.14	2,439.85	2,376.47	63.38	38.494		
10,900.00	7,258.00	6,940.00	6,648.00	98.09	40.84	-27.74	1,823.14	-946.14	2,535.86	2,472.23	63.63	39.853		
11,000.00	7,258.00	6,940.00	6,648.00	100.59	40.84	-27.74	1,823.14	-946.14	2,632.16	2,568.30	63.86	41.218		
11,100.00	7,258.00	6,940.00	6,648.00	103.11	40.84	-27.74	1,823.14	-946.14	2,728.73	2,664.66	64.07	42.589		
11,200.00	7,258.00	6,940.00	6,648.00	105.64	40.84	-27.74	1,823.14	-946.14	2,825.54	2,761.27	64.27	43.965		
11,300.00	7,258.00	6,940.00	6,648.00	108.18	40.84	-27.74	1,823.14	-946.14	2,922.56	2,858.11	64.45	45.346		
11,400.00	7,258.00	6,940.00	6,648.00	110.73	40.84	-27.74	1,823.14	-946.14	3,019.78	2,955.16	64.62	46.731		
11,500.00	7,258.00	6,940.00	6,648.00	113.29	40.84	-27.74	1,823.14	-946.14	3,117.17	3,052.39	64.78	48.118		
11,600.00	7,258.00	6,940.00	6,648.00	115.85	40.84	-27.74	1,823.14	-946.14	3,214.72	3,149.79	64.93	49.509		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	6.00	6.00	0.00	0.00	23.77	1,872.51	824.70	2,046.07					
100.00	100.00	100.58	100.58	0.14	0.31	23.76	1,872.68	824.58	2,046.19	2,045.74	0.45	4,543.745		
200.00	200.00	203.24	203.24	0.50	0.67	23.74	1,873.29	823.86	2,046.45	2,045.27	1.18	1,739.845		
300.00	300.00	324.35	324.27	0.86	1.11	23.63	1,874.58	820.14	2,046.22	2,044.25	1.97	1,037.838		
400.00	400.00	490.38	489.76	1.22	1.73	23.28	1,875.78	806.98	2,043.71	2,040.77	2.94	694.192		
500.00	500.00	606.24	604.80	1.58	2.18	22.92	1,875.91	793.33	2,039.15	2,035.40	3.75	543.167		
600.00	600.00	704.78	702.44	1.94	2.59	22.57	1,876.35	780.07	2,034.33	2,029.82	4.51	451.373		
700.00	700.00	798.58	795.18	2.29	2.99	22.20	1,877.52	766.02	2,029.74	2,024.48	5.26	385.755		
800.00	800.00	889.95	885.12	2.65	3.40	21.75	1,879.89	750.16	2,025.58	2,019.56	6.02	336.379		
900.00	900.00	986.49	979.69	3.01	3.84	21.21	1,883.63	731.11	2,021.88	2,015.06	6.82	296.418		
1,000.00	1,000.00	1,111.23	1,101.41	3.37	4.45	20.45	1,888.63	704.30	2,017.93	2,010.15	7.79	259.197		
1,100.00	1,100.00	1,205.58	1,192.99	3.73	4.94	19.82	1,892.26	681.88	2,013.24	2,004.62	8.63	233.315		
1,200.00	1,200.00	1,309.39	1,293.30	4.09	5.50	19.06	1,897.02	655.60	2,009.00	1,999.45	9.55	210.400		
1,300.00	1,300.00	1,471.13	1,448.36	4.45	6.45	17.77	1,903.14	610.08	2,003.60	1,992.76	10.84	184.889		
1,400.00	1,400.00	1,631.73	1,600.72	4.80	7.46	16.36	1,904.89	559.33	1,994.83	1,982.66	12.17	163.860		
1,500.00	1,500.00	1,700.54	1,665.53	5.16	7.92	15.72	1,905.45	536.23	1,985.88	1,972.88	13.00	152.765		
1,600.00	1,600.00	1,768.73	1,729.78	5.52	8.38	15.07	1,906.97	513.44	1,978.76	1,964.93	13.83	143.115		
1,700.00	1,700.00	1,844.90	1,801.56	5.88	8.89	14.34	1,909.60	488.11	1,973.31	1,958.60	14.71	134.158		
1,800.00	1,800.00	1,949.39	1,900.07	6.24	9.61	13.33	1,913.46	453.48	1,968.71	1,952.93	15.78	124.736		
1,900.00	1,900.00	2,045.88	1,990.91	6.60	10.28	12.39	1,916.34	421.07	1,963.89	1,947.08	16.82	116.769		
2,000.00	2,000.00	2,137.02	2,076.13	6.95	10.93	11.45	1,919.85	388.96	1,960.11	1,942.27	17.84	109.876		
2,100.00	2,100.00	2,260.53	2,191.50	7.31	11.83	10.17	1,923.75	345.03	1,956.31	1,937.21	19.10	102.425		
2,200.00	2,200.00	2,353.54	2,278.15	7.67	12.52	9.18	1,925.78	311.32	1,952.12	1,931.96	20.16	96.820		
2,300.00	2,299.98	2,441.34	2,359.23	8.03	13.21	7.44	1,928.30	277.69	1,947.19	1,925.98	21.21	91.790		
2,400.00	2,399.84	2,568.39	2,476.25	8.39	14.21	6.02	1,931.33	228.32	1,939.11	1,916.54	22.58	85.884		
2,500.00	2,499.45	2,618.27	2,522.22	8.75	14.61	5.48	1,932.52	209.02	1,928.24	1,904.89	23.35	82.594		
2,600.00	2,598.70	2,674.84	2,574.45	9.10	15.05	4.87	1,935.04	187.44	1,916.55	1,892.40	24.15	79.354		
2,700.00	2,697.47	2,754.89	2,648.45	9.47	15.68	3.99	1,939.43	157.22	1,903.17	1,878.03	25.13	75.720		
2,800.00	2,795.62	2,834.99	2,722.58	9.84	16.31	3.12	1,944.31	127.28	1,887.61	1,861.50	26.11	72.293		
2,900.00	2,893.06	2,924.92	2,806.05	10.23	17.00	2.13	1,950.13	94.33	1,869.68	1,842.53	27.15	68.870		
3,000.00	2,989.64	3,040.82	2,914.55	10.63	17.86	0.89	1,956.94	54.14	1,848.50	1,820.15	28.35	65.195		
3,100.00	3,085.27	3,136.34	3,004.47	11.05	18.54	-0.13	1,961.68	22.29	1,823.67	1,794.29	29.37	62.083		
3,200.00	3,179.82	3,210.41	3,073.99	11.50	19.08	-0.98	1,965.60	-2.98	1,796.34	1,766.10	30.25	59.393		
3,300.00	3,273.17	3,328.77	3,184.95	11.98	19.94	-2.41	1,971.80	-43.70	1,766.34	1,734.90	31.44	56.178		
3,400.00	3,365.21	3,396.36	3,248.72	12.49	20.42	-3.25	1,975.04	-65.83	1,733.10	1,700.87	32.24	53.763		
3,500.00	3,455.84	3,478.75	3,326.64	13.04	20.99	-4.31	1,979.79	-92.19	1,698.01	1,664.88	33.13	51.260		
3,506.72	3,461.88	3,484.91	3,332.46	13.08	21.03	-4.39	1,980.15	-94.16	1,695.55	1,662.36	33.19	51.088		
3,600.00	3,545.62	3,554.75	3,398.51	13.62	21.52	-5.29	1,984.24	-116.50	1,661.79	1,627.83	33.96	48.929		
3,700.00	3,635.40	3,615.00	3,455.30	14.23	21.94	-6.09	1,988.47	-136.19	1,627.34	1,592.66	34.68	46.922		
3,800.00	3,725.17	3,676.69	3,513.10	14.85	22.40	-6.96	1,993.71	-157.08	1,595.06	1,559.64	35.42	45.035		
3,900.00	3,814.95	3,738.05	3,570.15	15.50	22.86	-7.88	1,999.95	-178.77	1,565.22	1,529.07	36.14	43.305		
4,000.00	3,904.73	3,805.00	3,632.14	16.15	23.38	-8.92	2,007.67	-202.87	1,537.62	1,500.70	36.91	41.657		
4,100.00	3,994.50	3,906.06	3,725.50	16.82	24.17	-10.54	2,019.48	-239.72	1,511.25	1,473.27	37.98	39.790		
4,200.00	4,084.28	3,994.24	3,806.93	17.51	24.87	-12.02	2,029.31	-272.07	1,485.53	1,446.60	38.93	38.161		
4,300.00	4,174.06	4,107.80	3,912.55	18.20	25.73	-13.91	2,041.52	-311.95	1,460.24	1,420.17	40.07	36.444		
4,400.00	4,263.83	4,222.98	4,020.41	18.90	26.59	-15.88	2,051.62	-351.07	1,433.92	1,392.72	41.20	34.808		
4,500.00	4,353.61	4,311.04	4,102.29	19.62	27.26	-17.51	2,058.26	-382.79	1,408.45	1,366.34	42.11	33.449		
4,600.00	4,443.38	4,416.88	4,200.84	20.33	28.07	-19.54	2,065.49	-420.70	1,383.68	1,340.52	43.16	32.057		
4,700.00	4,533.16	4,515.20	4,292.89	21.06	28.80	-21.46	2,071.09	-454.81	1,358.96	1,314.83	44.14	30.791		
4,800.00	4,622.94	4,603.93	4,376.27	21.79	29.45	-23.21	2,076.43	-484.67	1,335.60	1,290.58	45.02	29.670		
4,900.00	4,712.71	4,697.07	4,464.09	22.53	30.11	-25.07	2,081.89	-515.20	1,313.19	1,267.27	45.91	28.601		
5,000.00	4,802.49	4,779.34	4,541.65	23.27	30.70	-26.76	2,086.64	-542.23	1,292.25	1,245.53	46.73	27.656		

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 11-10-5H
<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 11-10-5H	<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											Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,892.27	4,854.01	4,611.60	24.02	31.25	-28.38	2,090.88	-567.99	1,273.56	1,226.09	47.47	26.829		
5,200.00	4,982.04	4,942.61	4,694.46	24.77	31.92	-30.34	2,096.05	-598.93	1,256.95	1,208.62	48.33	26.009		
5,300.00	5,071.82	5,055.58	4,801.04	25.53	32.72	-32.81	2,102.86	-635.76	1,241.07	1,191.71	49.37	25.141		
5,400.00	5,161.59	5,148.52	4,889.36	26.29	33.34	-34.82	2,108.50	-664.15	1,225.86	1,175.64	50.22	24.412		
5,500.00	5,251.37	5,240.64	4,976.98	27.05	33.96	-36.85	2,113.71	-692.10	1,211.93	1,160.88	51.06	23.737		
5,600.00	5,341.15	5,318.38	5,050.97	27.81	34.47	-38.56	2,118.66	-715.41	1,200.04	1,148.26	51.77	23.179		
5,700.00	5,430.92	5,443.03	5,170.06	28.58	35.27	-41.34	2,125.99	-751.48	1,188.93	1,136.07	52.86	22.490		
5,800.00	5,520.70	5,552.29	5,275.04	29.35	35.94	-43.81	2,130.65	-781.42	1,177.62	1,123.79	53.82	21.880		
5,900.00	5,610.48	5,677.39	5,395.90	30.12	36.66	-46.71	2,133.54	-813.56	1,165.78	1,110.92	54.86	21.249		
6,000.00	5,700.25	5,819.61	5,534.24	30.90	37.42	-50.12	2,132.74	-846.46	1,152.50	1,096.56	55.95	20.600		
6,100.00	5,790.03	5,891.45	5,604.34	31.67	37.78	-51.86	2,131.99	-862.10	1,139.88	1,083.18	56.70	20.105		
6,200.00	5,879.81	6,021.69	5,732.37	32.45	38.37	-54.87	2,132.71	-885.91	1,127.49	1,069.81	57.68	19.548		
6,300.00	5,969.58	6,142.31	5,851.62	33.23	38.85	-57.58	2,134.40	-903.87	1,115.08	1,056.51	58.58	19.036		
6,400.00	6,059.36	6,256.90	5,965.57	34.01	39.25	-60.11	2,135.61	-915.92	1,100.46	1,041.02	59.45	18.512		
6,500.00	6,149.13	6,359.67	6,067.86	34.79	39.59	-62.42	2,136.44	-925.74	1,086.75	1,026.44	60.31	18.019		
6,600.00	6,238.91	6,069.87	7,119.47	35.58	45.08	16.77	2,162.84	50.38	1,011.57	974.31	37.26	27.152		
6,700.00	6,328.69	8,068.13	7,119.48	36.36	45.06	15.46	2,162.91	48.65	911.86	874.13	37.74	24.164		
6,800.00	6,418.46	8,066.33	7,119.50	37.15	45.04	14.09	2,162.98	46.84	812.23	773.93	38.30	21.208		
6,900.00	6,508.24	8,064.45	7,119.52	37.94	45.02	12.65	2,163.06	44.97	712.69	673.71	38.97	18.286		
7,000.00	6,598.02	8,062.50	7,119.54	38.73	45.00	11.14	2,163.13	43.02	613.29	573.47	39.82	15.401		
7,100.00	6,687.79	8,060.48	7,119.56	39.52	44.98	9.55	2,163.20	41.00	514.12	473.17	40.94	12.557		
7,156.65	6,738.65	8,059.29	7,119.58	39.96	44.97	8.61	2,163.24	39.81	458.09	416.32	41.77	10.967		
7,200.00	6,777.55	8,056.76	7,119.62	40.31	44.94	38.42	2,163.33	37.29	415.42	372.89	42.53	9.768		
7,250.00	6,822.15	8,049.77	7,119.74	40.70	44.87	61.24	2,163.54	30.30	366.79	323.21	43.59	8.415		
7,300.00	6,866.16	8,038.35	7,120.00	41.09	44.75	76.22	2,163.80	18.88	319.25	274.35	44.90	7.110		
7,350.00	6,909.24	8,022.44	7,120.50	41.47	44.58	86.25	2,164.00	2.99	273.25	226.69	46.56	5.869		
7,400.00	6,951.05	8,002.07	7,121.36	41.83	44.36	92.68	2,163.99	-17.37	229.28	180.60	48.68	4.710		
7,450.00	6,991.29	7,978.09	7,122.65	42.19	44.13	96.21	2,163.65	-41.31	187.91	136.39	51.52	3.647		
7,500.00	7,029.64	7,950.59	7,124.26	42.53	43.88	96.78	2,163.24	-68.76	149.94	94.49	55.45	2.704		
7,550.00	7,065.81	7,919.30	7,126.26	42.86	43.60	93.81	2,162.78	-99.99	116.47	55.68	60.78	1.916		
7,600.00	7,099.54	7,884.27	7,128.61	43.17	43.30	86.26	2,162.28	-134.92	89.21	21.94	67.27	1.326	Level 3	
7,650.00	7,130.55	7,846.90	7,130.38	43.47	43.01	73.03	2,161.90	-172.25	71.15	-0.99	72.14	0.986	Level 3	
<b>7,691.89</b>	<b>7,154.27</b>	<b>7,814.53</b>	<b>7,131.11</b>	<b>43.71</b>	<b>42.76</b>	<b>58.37</b>	<b>2,161.71</b>	<b>-204.61</b>	<b>66.11</b>	<b>-3.34</b>	<b>69.45</b>	<b>0.952</b>	<b>Level 3, CC, ES, SF</b>	
7,700.00	7,158.62	7,808.17	7,131.16	43.76	42.71	55.38	2,161.68	-210.98	66.29	-1.70	67.99	0.975	Level 3	
7,750.00	7,183.53	7,771.15	7,129.99	44.03	42.46	38.66	2,161.49	-247.96	74.85	19.30	55.54	1.348	Level 3	
7,800.00	7,205.09	7,736.73	7,125.70	44.30	42.23	25.82	2,161.01	-282.10	93.16	48.76	44.39	2.098		
7,850.00	7,223.14	7,703.77	7,118.70	44.55	42.02	16.89	2,160.29	-314.29	116.64	78.21	38.43	3.035		
7,900.00	7,237.54	7,665.19	7,108.65	44.80	41.79	10.36	2,159.55	-351.53	141.24	105.84	35.40	3.990		
7,950.00	7,248.18	7,625.60	7,097.40	45.04	41.56	6.44	2,159.19	-389.48	164.61	130.28	34.33	4.795		
8,000.00	7,254.98	7,589.78	7,086.13	45.28	41.39	4.18	2,159.14	-423.48	186.44	151.54	34.90	5.342		
8,050.00	7,257.88	7,557.05	7,073.91	45.51	41.25	2.66	2,159.09	-453.84	207.70	171.15	36.55	5.682		
8,062.16	7,258.00	7,549.19	7,070.70	45.57	41.21	2.36	2,159.07	-461.00	212.78	175.74	37.04	5.745		
8,100.00	7,258.00	7,516.00	7,055.92	45.75	41.07	2.23	2,158.95	-490.72	229.60	192.38	37.22	6.168		
8,200.00	7,258.00	7,469.22	7,031.72	46.30	40.92	1.88	2,158.15	-530.72	280.30	237.26	43.04	6.513		
8,300.00	7,258.00	7,421.00	7,002.73	46.98	40.79	1.28	2,156.03	-569.17	340.47	293.40	47.07	7.234		
8,400.00	7,258.00	7,358.56	6,961.85	47.79	40.67	0.66	2,153.30	-616.27	405.96	357.53	48.44	8.381		
8,500.00	7,258.00	7,299.86	6,921.94	48.75	40.58	0.47	2,152.28	-659.31	473.96	424.10	49.86	9.506		
8,600.00	7,258.00	7,245.25	6,883.52	49.84	40.52	0.55	2,152.76	-698.11	544.35	493.02	51.32	10.606		
8,700.00	7,258.00	7,213.00	6,860.22	51.09	40.50	0.66	2,153.60	-720.39	617.37	563.50	53.87	11.460		
8,800.00	7,258.00	7,158.56	6,819.42	52.47	40.48	0.80	2,154.81	-756.40	692.57	637.91	54.66	12.670		
8,900.00	7,258.00	7,135.00	6,801.20	53.99	40.47	0.83	2,155.21	-771.33	770.57	713.84	56.73	13.582		
9,000.00	7,258.00	7,091.05	6,766.22	55.62	40.47	0.81	2,155.33	-797.93	850.42	792.90	57.52	14.786		

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 11-10-5H
<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 11-10-5H	<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										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	7,258.00	7,040.00	6,724.00	57.37	40.48	0.64	2,154.08	-826.58	932.99	875.13	57.86	16.125	
9,200.00	7,258.00	7,040.00	6,724.00	59.21	40.48	0.64	2,154.08	-826.58	1,016.19	956.31	59.88	16.971	
9,300.00	7,258.00	7,007.04	6,696.00	61.14	40.49	0.48	2,152.63	-843.91	1,101.26	1,040.76	60.51	18.201	
9,400.00	7,258.00	6,980.33	6,672.99	63.14	40.50	0.33	2,151.23	-857.42	1,187.48	1,126.27	61.20	19.403	
9,500.00	7,258.00	6,945.00	6,642.16	65.21	40.51	0.13	2,149.06	-874.52	1,274.78	1,213.22	61.57	20.706	
9,600.00	7,258.00	6,945.00	6,642.16	67.33	40.51	0.13	2,149.06	-874.52	1,362.95	1,300.25	62.70	21.737	
9,700.00	7,258.00	6,945.00	6,642.16	69.51	40.51	0.13	2,149.06	-874.52	1,452.65	1,389.00	63.66	22.820	
9,800.00	7,258.00	6,945.00	6,642.16	71.73	40.51	0.13	2,149.06	-874.52	1,543.62	1,479.16	64.46	23.946	
9,900.00	7,258.00	6,900.37	6,602.16	74.00	40.52	-0.11	2,146.25	-894.08	1,633.35	1,568.98	64.37	25.375	
10,000.00	7,258.00	6,890.06	6,592.71	76.30	40.53	-0.15	2,145.65	-898.16	1,725.13	1,660.27	64.86	26.598	
10,100.00	7,258.00	6,850.00	6,555.36	78.63	40.54	-0.31	2,143.46	-912.45	1,818.61	1,753.77	64.84	28.048	
10,200.00	7,258.00	6,850.00	6,555.36	80.99	40.54	-0.31	2,143.46	-912.45	1,911.10	1,845.70	65.40	29.222	
10,300.00	7,258.00	6,850.00	6,555.36	83.37	40.54	-0.31	2,143.46	-912.45	2,004.31	1,938.42	65.89	30.418	
10,400.00	7,258.00	6,850.00	6,555.36	85.78	40.54	-0.31	2,143.46	-912.45	2,098.15	2,031.83	66.33	31.634	
10,500.00	7,258.00	6,850.00	6,555.36	88.21	40.54	-0.31	2,143.46	-912.45	2,192.54	2,125.82	66.71	32.865	
10,600.00	7,258.00	6,850.00	6,555.36	90.65	40.54	-0.31	2,143.46	-912.45	2,287.40	2,220.34	67.06	34.109	
10,700.00	7,258.00	6,850.00	6,555.36	93.12	40.54	-0.31	2,143.46	-912.45	2,382.68	2,315.31	67.37	35.366	
10,800.00	7,258.00	6,850.00	6,555.36	95.59	40.54	-0.31	2,143.46	-912.45	2,478.33	2,410.68	67.65	36.632	
10,900.00	7,258.00	6,850.00	6,555.36	98.09	40.54	-0.31	2,143.46	-912.45	2,574.32	2,506.41	67.91	37.908	
11,000.00	7,258.00	6,850.00	6,555.36	100.59	40.54	-0.31	2,143.46	-912.45	2,670.59	2,602.45	68.14	39.191	
11,100.00	7,258.00	6,850.00	6,555.36	103.11	40.54	-0.31	2,143.46	-912.45	2,767.14	2,698.78	68.36	40.480	
11,200.00	7,258.00	6,850.00	6,555.36	105.64	40.54	-0.31	2,143.46	-912.45	2,863.92	2,795.36	68.55	41.776	
11,300.00	7,258.00	6,850.00	6,555.36	108.18	40.54	-0.31	2,143.46	-912.45	2,960.91	2,892.17	68.74	43.076	
11,400.00	7,258.00	6,850.00	6,555.36	110.73	40.54	-0.31	2,143.46	-912.45	3,058.10	2,989.19	68.91	44.381	
11,500.00	7,258.00	6,850.00	6,555.36	113.29	40.54	-0.31	2,143.46	-912.45	3,155.46	3,086.40	69.06	45.689	
11,600.00	7,258.00	6,850.00	6,555.36	115.85	40.54	-0.31	2,143.46	-912.45	3,252.98	3,183.77	69.21	47.001	

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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		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	25.18	1,753.38	824.15	1,937.41					
100.00	100.00	105.32	105.32	0.14	0.32	25.18	1,753.35	824.26	1,937.43	1,936.96	0.46	4,179.081		
200.00	200.00	242.63	242.62	0.50	0.80	25.19	1,752.37	824.13	1,936.83	1,935.53	1.31	1,480.745		
300.00	300.00	411.70	411.51	0.86	1.41	25.19	1,745.62	821.04	1,931.95	1,929.68	2.27	851.005		
400.00	400.00	646.50	646.05	1.22	2.31	25.08	1,725.99	807.82	1,920.62	1,917.13	3.48	551.239		
500.00	500.00	818.79	815.60	1.58	3.02	24.95	1,706.21	793.79	1,907.12	1,902.65	4.47	426.551		
600.00	600.00	1,016.48	1,009.52	1.94	3.92	24.79	1,674.03	772.99	1,887.52	1,881.97	5.54	340.442		
700.00	700.00	1,135.31	1,125.44	2.29	4.51	24.70	1,651.63	759.51	1,865.65	1,859.32	6.33	294.561		
800.00	800.00	1,345.95	1,329.22	2.65	5.62	24.61	1,604.51	734.91	1,840.74	1,833.28	7.45	246.979		
900.00	900.00	1,449.00	1,427.90	3.01	6.21	24.57	1,578.05	721.41	1,811.92	1,803.73	8.19	221.187		
1,000.00	1,000.00	1,537.24	1,512.41	3.37	6.72	24.51	1,555.74	709.34	1,783.24	1,774.35	8.88	200.708		
1,100.00	1,100.00	1,627.72	1,599.18	3.73	7.25	24.44	1,533.41	696.73	1,755.00	1,745.41	9.59	183.018		
1,200.00	1,200.00	1,718.74	1,686.54	4.09	7.78	24.35	1,511.28	683.94	1,727.04	1,716.74	10.30	167.696		
1,300.00	1,300.00	1,830.26	1,793.44	4.45	8.43	24.23	1,483.83	667.94	1,698.67	1,687.59	11.08	153.345		
1,400.00	1,400.00	1,940.92	1,899.39	4.80	9.10	24.14	1,455.85	652.53	1,669.95	1,658.09	11.85	140.883		
1,500.00	1,500.00	2,060.45	2,013.14	5.16	9.84	23.98	1,424.41	633.62	1,639.39	1,626.74	12.66	129.505		
1,600.00	1,600.00	2,150.46	2,098.63	5.52	10.40	23.80	1,401.02	617.92	1,608.52	1,595.14	13.38	120.223		
1,700.00	1,700.00	2,266.64	2,208.89	5.88	11.14	23.54	1,370.82	597.22	1,577.57	1,563.39	14.18	111.265		
1,800.00	1,800.00	2,367.25	2,303.95	6.24	11.80	23.27	1,344.01	578.06	1,545.47	1,530.53	14.94	103.465		
1,900.00	1,900.00	2,477.84	2,408.17	6.60	12.53	22.95	1,313.98	556.48	1,512.75	1,497.02	15.73	96.198		
2,000.00	2,000.00	2,576.52	2,500.90	6.95	13.20	22.65	1,286.51	536.88	1,479.28	1,462.80	16.49	89.735		
2,100.00	2,100.00	2,656.00	2,575.77	7.31	13.73	22.41	1,264.64	521.59	1,446.40	1,429.20	17.20	84.095		
2,200.00	2,200.00	2,738.60	2,653.85	7.67	14.28	22.17	1,242.43	506.32	1,414.41	1,396.49	17.92	78.918		
2,300.00	2,299.98	2,843.71	2,753.18	8.03	14.97	21.35	1,214.33	486.52	1,380.96	1,362.25	18.70	73.842		
2,400.00	2,399.84	2,924.80	2,829.74	8.39	15.51	21.41	1,192.82	470.69	1,344.39	1,324.96	19.43	69.199		
2,500.00	2,499.45	2,995.01	2,896.31	8.75	15.97	21.56	1,174.83	457.51	1,305.95	1,285.83	20.12	64.903		
2,600.00	2,598.70	3,074.59	2,972.22	9.10	16.47	21.77	1,155.50	443.46	1,266.06	1,245.24	20.83	60.786		
2,700.00	2,697.47	3,168.75	3,061.96	9.47	17.06	22.03	1,132.75	426.28	1,223.17	1,201.62	21.56	56.736		
2,800.00	2,795.62	3,258.04	3,147.06	9.84	17.63	22.39	1,111.10	410.10	1,177.36	1,155.09	22.27	52.864		
2,900.00	2,893.06	3,348.43	3,233.20	10.23	18.20	22.92	1,088.72	394.28	1,128.49	1,105.52	22.97	49.122		
3,000.00	2,989.64	3,435.57	3,316.24	10.63	18.76	23.62	1,066.77	379.64	1,076.73	1,053.08	23.66	45.516		
3,100.00	3,085.27	3,524.58	3,400.97	11.05	19.32	24.52	1,044.04	364.56	1,021.95	997.62	24.33	42.007		
3,200.00	3,179.82	3,607.90	3,480.13	11.50	19.86	25.54	1,022.91	349.42	964.29	939.31	24.99	38.593		
3,300.00	3,273.17	3,704.34	3,571.27	11.98	20.50	26.75	998.49	329.48	903.32	877.69	25.64	35.236		
3,400.00	3,365.21	3,788.75	3,650.53	12.49	21.09	28.12	976.65	310.34	838.87	812.60	26.27	31.934		
3,500.00	3,455.84	3,867.19	3,723.95	13.04	21.64	29.84	955.85	292.22	771.57	744.68	26.88	28.700		
3,506.72	3,461.88	3,872.32	3,728.75	13.08	21.67	29.97	954.48	291.03	766.95	740.03	26.92	28.486		
3,600.00	3,545.62	3,941.47	3,793.39	13.62	22.16	30.99	935.77	275.07	702.76	675.27	27.49	25.565		
3,700.00	3,635.40	4,009.51	3,857.01	14.23	22.64	32.26	917.10	259.80	634.04	605.92	28.12	22.547		
3,800.00	3,725.17	4,069.55	3,913.55	14.85	23.05	33.76	900.92	247.73	566.73	537.91	28.82	19.665		
3,900.00	3,814.95	4,131.01	3,971.91	15.50	23.44	35.78	884.93	237.01	501.47	471.90	29.56	16.962		
4,000.00	3,904.73	4,198.17	4,036.17	16.15	23.87	38.65	868.33	226.76	438.65	408.29	30.36	14.449		
4,100.00	3,994.50	4,277.18	4,111.77	16.82	24.35	42.97	848.87	214.56	377.00	345.81	31.19	12.088		
4,200.00	4,084.28	4,353.33	4,184.48	17.51	24.83	48.52	829.92	202.17	316.63	284.36	32.27	9.812		
4,300.00	4,174.06	4,432.71	4,260.04	18.20	25.34	56.59	809.69	188.63	258.52	224.76	33.76	7.657		
4,400.00	4,263.83	4,506.38	4,329.79	18.90	25.83	67.36	790.06	175.40	204.88	168.51	36.37	5.633		
4,500.00	4,353.61	4,578.23	4,398.09	19.62	26.29	81.81	771.61	162.84	163.10	122.41	40.69	4.008		
4,600.00	4,443.38	4,652.02	4,468.51	20.33	26.76	100.31	753.47	150.35	142.79	97.26	45.53	3.136		
4,620.02	4,461.36	4,666.98	4,482.81	20.48	26.85	104.28	749.86	147.87	142.17	95.97	46.21	3.077 CC, ES, SF		
4,700.00	4,533.16	4,726.30	4,539.48	21.06	27.23	119.74	735.32	138.03	151.81	104.70	47.11	3.222		
4,800.00	4,622.94	4,799.78	4,609.51	21.79	27.69	136.13	716.70	125.87	186.24	140.63	45.61	4.083		
4,900.00	4,712.71	4,872.98	4,679.08	22.53	28.17	148.34	697.57	113.52	235.58	191.71	43.88	5.369		

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 11-10-5H
<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 11-10-5H	<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)				
5,000.00	4,802.49	4,947.41	4,749.75	23.27	28.65	157.19	678.05	100.69	292.30	249.47	42.83	6.825		
5,100.00	4,892.27	5,025.64	4,824.32	24.02	29.15	163.63	658.26	87.71	352.31	309.86	42.45	8.299		
5,200.00	4,982.04	5,104.25	4,899.65	24.77	29.63	168.13	639.38	75.57	413.55	371.10	42.45	9.743		
5,300.00	5,071.82	5,181.75	4,974.09	25.53	30.10	171.42	621.30	63.83	475.46	432.83	42.64	11.152		
5,400.00	5,161.59	5,258.63	5,047.82	26.29	30.57	174.08	603.46	51.32	538.02	495.09	42.93	12.532		
5,500.00	5,251.37	5,335.76	5,121.73	27.05	31.04	176.28	585.76	38.14	600.95	557.63	43.33	13.870		
5,600.00	5,341.15	5,410.19	5,192.96	27.81	31.50	178.06	568.67	24.95	664.35	620.61	43.74	15.188		
5,700.00	5,430.92	5,488.98	5,268.40	28.58	31.99	179.62	550.63	11.14	728.03	683.75	44.28	16.440		
5,800.00	5,520.70	5,567.82	5,344.10	29.35	32.46	-179.15	532.88	-1.90	791.62	746.75	44.87	17.643		
5,900.00	5,610.48	5,648.52	5,421.69	30.12	32.95	-178.10	514.98	-15.02	855.11	809.60	45.51	18.790		
6,000.00	5,700.25	5,730.93	5,500.97	30.90	33.44	-177.14	497.27	-28.86	918.24	872.05	46.19	19.880		
6,100.00	5,790.03	5,796.00	5,563.37	31.67	33.83	-176.36	483.73	-41.37	981.23	934.59	46.63	21.041		
6,200.00	5,879.81	5,861.61	5,625.83	32.45	34.25	-175.53	469.57	-55.63	1,045.19	998.07	47.11	22.185		
6,300.00	5,969.58	5,924.97	5,685.62	33.23	34.67	-174.75	454.72	-70.43	1,110.78	1,063.21	47.57	23.350		
6,400.00	6,059.36	6,001.59	5,758.24	34.01	35.18	-174.00	436.49	-86.68	1,176.60	1,128.35	48.25	24.388		
6,500.00	6,149.13	6,075.36	5,828.53	34.79	35.65	-173.49	418.65	-100.24	1,242.47	1,193.58	48.89	25.414		
6,600.00	6,238.91	6,141.94	5,892.07	35.58	36.07	-173.14	402.18	-111.34	1,308.64	1,259.20	49.44	26.468		
6,700.00	6,328.69	6,214.10	5,960.85	36.36	36.53	-172.81	383.91	-123.24	1,375.26	1,325.18	50.08	27.461		
6,800.00	6,418.46	6,295.04	6,038.09	37.15	37.04	-172.48	363.62	-136.43	1,441.70	1,390.85	50.84	28.357		
6,900.00	6,508.24	6,368.00	6,107.83	37.94	37.49	-172.22	345.57	-148.00	1,507.84	1,456.35	51.50	29.280		
7,000.00	6,598.02	6,438.35	6,175.08	38.73	37.93	-172.01	327.99	-158.84	1,574.16	1,522.03	52.12	30.200		
7,100.00	6,687.79	6,503.38	6,237.19	39.52	38.34	-171.86	311.22	-168.33	1,640.99	1,588.31	52.68	31.149		
7,156.65	6,738.65	6,540.65	6,272.82	39.96	38.57	-171.81	301.35	-173.07	1,679.03	1,626.02	53.01	31.675		
7,200.00	6,777.55	6,559.00	6,290.36	40.31	38.68	-159.21	296.42	-175.20	1,708.02	1,654.89	53.14	32.144		
7,250.00	6,822.15	6,584.82	6,315.02	40.70	38.83	-145.49	289.26	-177.84	1,741.03	1,687.68	53.36	32.630		
7,300.00	6,866.16	6,603.95	6,333.25	41.09	38.95	-133.07	283.69	-179.46	1,773.50	1,719.98	53.51	33.140		
7,350.00	6,909.24	6,622.33	6,350.73	41.47	39.06	-122.21	278.13	-180.75	1,805.21	1,751.53	53.69	33.625		
7,400.00	6,951.05	6,654.00	6,380.72	41.83	39.25	-113.20	268.09	-182.34	1,836.12	1,782.06	54.06	33.966		
7,450.00	6,991.29	6,654.00	6,380.72	42.19	39.25	-104.94	268.09	-182.34	1,865.75	1,811.72	54.03	34.532		
7,500.00	7,029.64	6,654.00	6,380.72	42.53	39.25	-97.85	268.09	-182.34	1,894.47	1,840.45	54.02	35.070		
7,550.00	7,065.81	6,654.00	6,380.72	42.86	39.25	-91.78	268.09	-182.34	1,922.09	1,868.06	54.03	35.574		
7,600.00	7,099.54	6,688.36	6,413.00	43.17	39.44	-87.55	256.36	-182.49	1,947.64	1,893.10	54.54	35.710		
7,650.00	7,130.55	6,696.44	6,420.54	43.47	39.48	-83.36	253.45	-182.19	1,972.16	1,917.43	54.74	36.031		
7,700.00	7,158.62	6,703.17	6,426.79	43.76	39.52	-79.79	250.99	-181.84	1,995.13	1,940.18	54.95	36.305		
7,750.00	7,183.53	6,708.61	6,431.84	44.03	39.55	-76.74	248.97	-181.50	2,016.46	1,961.26	55.20	36.528		
7,800.00	7,205.09	6,712.85	6,435.75	44.30	39.57	-74.16	247.39	-181.19	2,036.07	1,980.58	55.49	36.696		
7,850.00	7,223.14	6,715.96	6,438.62	44.55	39.59	-71.99	246.21	-180.94	2,053.87	1,998.07	55.81	36.803		
7,900.00	7,237.54	6,749.00	6,468.78	44.80	39.77	-71.09	233.28	-177.15	2,070.57	2,013.94	56.63	36.562		
7,950.00	7,248.18	6,749.00	6,468.78	45.04	39.77	-69.60	233.28	-177.15	2,084.53	2,027.50	57.03	36.553		
8,000.00	7,254.98	6,749.00	6,468.78	45.28	39.77	-68.46	233.28	-177.15	2,096.52	2,039.04	57.48	36.473		
8,050.00	7,257.88	6,749.00	6,468.78	45.51	39.77	-67.65	233.28	-177.15	2,106.50	2,048.51	57.99	36.327		
8,062.16	7,258.00	6,749.00	6,468.78	45.57	39.77	-67.50	233.28	-177.15	2,108.62	2,050.50	58.12	36.282		
8,100.00	7,258.00	6,749.00	6,468.78	45.75	39.77	-67.50	233.28	-177.15	2,115.34	2,056.80	58.54	36.136		
8,200.00	7,258.00	6,749.00	6,468.78	46.30	39.77	-67.50	233.28	-177.15	2,136.23	2,076.51	59.72	35.770		
8,300.00	7,258.00	6,749.00	6,468.78	46.98	39.77	-67.50	233.28	-177.15	2,161.55	2,100.57	60.98	35.448		
8,400.00	7,258.00	6,711.82	6,434.81	47.79	39.56	-66.48	247.77	-181.27	2,189.80	2,128.10	61.70	35.493		
8,500.00	7,258.00	6,710.23	6,433.33	48.75	39.56	-66.44	248.37	-181.39	2,223.34	2,160.34	62.99	35.294		
8,600.00	7,258.00	6,708.76	6,431.98	49.84	39.55	-66.40	248.92	-181.49	2,260.80	2,196.50	64.29	35.163		
8,700.00	7,258.00	6,707.42	6,430.73	51.09	39.54	-66.36	249.42	-181.58	2,302.00	2,236.42	65.58	35.104		
8,800.00	7,258.00	6,706.17	6,429.58	52.47	39.53	-66.33	249.88	-181.66	2,346.73	2,279.90	66.83	35.117		
8,900.00	7,258.00	6,705.02	6,428.51	53.99	39.53	-66.30	250.31	-181.73	2,394.80	2,326.77	68.03	35.200		
9,000.00	7,258.00	6,703.95	6,427.51	55.62	39.52	-66.27	250.71	-181.80	2,446.02	2,376.83	69.19	35.352		

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 11-10-5H
<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 11-10-5H	<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		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	7,258.00	6,702.95	6,426.59	57.37	39.52	-66.24	251.07	-181.86	2,500.19	2,429.90	70.29	35.569		
9,200.00	7,258.00	6,702.01	6,425.72	59.21	39.51	-66.21	251.42	-181.91	2,557.12	2,485.79	71.33	35.849		
9,300.00	7,258.00	6,701.14	6,424.91	61.14	39.51	-66.19	251.74	-181.96	2,616.63	2,544.32	72.31	36.186		
9,400.00	7,258.00	6,700.32	6,424.15	63.14	39.50	-66.17	252.04	-182.00	2,678.55	2,605.32	73.23	36.578		
9,500.00	7,258.00	6,699.56	6,423.44	65.21	39.50	-66.15	252.32	-182.04	2,742.72	2,668.63	74.09	37.020		
9,600.00	7,258.00	6,698.83	6,422.77	67.33	39.49	-66.13	252.58	-182.08	2,808.98	2,734.09	74.89	37.508		
9,700.00	7,258.00	6,698.15	6,422.13	69.51	39.49	-66.11	252.83	-182.11	2,877.20	2,801.56	75.64	38.040		
9,800.00	7,258.00	6,697.51	6,421.53	71.73	39.49	-66.09	253.07	-182.14	2,947.22	2,870.89	76.33	38.612		
9,900.00	7,258.00	6,696.90	6,420.96	74.00	39.48	-66.07	253.29	-182.17	3,018.94	2,941.96	76.97	39.220		
10,000.00	7,258.00	6,696.32	6,420.43	76.30	39.48	-66.06	253.50	-182.19	3,092.22	3,014.65	77.57	39.862		
10,100.00	7,258.00	6,695.77	6,419.92	78.63	39.48	-66.04	253.70	-182.22	3,166.97	3,088.84	78.13	40.536		
10,200.00	7,258.00	6,654.00	6,380.72	80.99	39.25	-64.90	268.09	-182.34	3,245.11	3,167.07	78.04	41.583		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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 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	24.48	1,812.03	824.98	1,990.99					
100.00	100.00	89.64	89.64	0.14	0.26	24.48	1,812.31	825.10	1,991.36	1,990.95	0.41	4,866.857		
200.00	200.00	188.64	188.63	0.50	0.62	24.48	1,813.29	825.45	1,992.41	1,991.29	1.12	1,777.200		
300.00	300.00	392.60	392.53	0.86	1.33	24.44	1,810.90	822.87	1,990.97	1,988.78	2.19	908.572		
400.00	400.00	558.58	558.09	1.22	1.92	24.27	1,804.11	813.35	1,984.82	1,981.68	3.13	633.294		
500.00	500.00	687.41	686.18	1.58	2.41	24.03	1,797.53	801.29	1,976.27	1,972.31	3.95	499.696		
600.00	600.00	814.74	812.23	1.94	2.92	23.65	1,791.39	784.46	1,966.46	1,961.67	4.80	410.074		
700.00	700.00	933.14	928.73	2.29	3.43	23.16	1,786.07	764.08	1,955.37	1,949.75	5.62	347.872		
800.00	800.00	1,034.36	1,027.94	2.65	3.89	22.67	1,782.29	744.37	1,944.20	1,937.79	6.40	303.591		
900.00	900.00	1,165.48	1,155.92	3.01	4.52	21.96	1,776.52	716.42	1,931.77	1,924.43	7.34	263.331		
1,000.00	1,000.00	1,267.46	1,255.06	3.37	5.03	21.36	1,771.79	693.01	1,918.73	1,910.57	8.17	234.982		
1,100.00	1,100.00	1,415.27	1,398.11	3.73	5.82	20.42	1,763.90	656.69	1,904.71	1,895.48	9.23	206.382		
1,200.00	1,200.00	1,521.78	1,500.47	4.09	6.42	19.67	1,757.05	628.07	1,889.02	1,878.89	10.13	186.434		
1,300.00	1,300.00	1,624.44	1,598.88	4.45	7.02	18.90	1,750.82	599.51	1,873.65	1,862.61	11.04	169.764		
1,400.00	1,400.00	1,718.73	1,689.43	4.80	7.57	18.22	1,744.09	574.10	1,857.90	1,845.99	11.90	156.093		
1,500.00	1,500.00	1,810.11	1,777.51	5.16	8.10	17.58	1,737.93	550.55	1,843.16	1,830.40	12.75	144.535		
1,600.00	1,600.00	1,910.43	1,874.16	5.52	8.68	16.86	1,731.10	524.54	1,828.59	1,814.94	13.65	133.920		
1,700.00	1,700.00	2,058.45	2,015.33	5.88	9.60	15.64	1,719.77	481.59	1,812.51	1,797.67	14.84	122.121		
1,800.00	1,800.00	2,187.93	2,136.61	6.24	10.50	14.36	1,708.90	437.57	1,794.75	1,778.73	16.01	112.079		
1,900.00	1,900.00	2,285.73	2,227.85	6.60	11.20	13.35	1,699.88	403.53	1,776.52	1,759.49	17.04	104.272		
2,000.00	2,000.00	2,384.67	2,320.55	6.95	11.90	12.36	1,690.10	370.35	1,758.56	1,740.50	18.06	97.364		
2,100.00	2,100.00	2,493.59	2,422.69	7.31	12.66	11.27	1,678.47	334.38	1,740.50	1,721.36	19.14	90.929		
2,200.00	2,200.00	2,589.38	2,512.67	7.67	13.33	10.31	1,667.42	303.44	1,722.32	1,702.18	20.15	85.492		
2,300.00	2,299.98	2,668.38	2,587.40	8.03	13.86	8.86	1,658.41	279.47	1,703.48	1,682.43	21.05	80.926		
2,400.00	2,399.84	2,751.00	2,666.08	8.39	14.40	8.19	1,649.36	255.93	1,682.44	1,660.49	21.95	76.641		
2,500.00	2,499.45	2,846.00	2,756.43	8.75	15.02	7.40	1,638.38	228.72	1,657.81	1,634.89	22.92	72.336		
2,600.00	2,598.70	2,916.62	2,823.36	9.10	15.49	6.79	1,630.82	207.52	1,631.00	1,607.22	23.78	68.585		
2,700.00	2,697.47	2,981.75	2,885.02	9.47	15.94	6.17	1,625.76	187.17	1,603.51	1,578.88	24.63	65.103		
2,800.00	2,795.62	3,059.83	2,958.21	9.84	16.49	5.30	1,620.90	160.41	1,574.26	1,548.68	25.58	61.545		
2,900.00	2,893.06	3,150.03	3,042.81	10.23	17.14	4.25	1,615.58	129.58	1,542.59	1,515.96	26.62	57.945		
3,000.00	2,989.64	3,242.60	3,129.61	10.63	17.80	3.11	1,609.95	97.90	1,508.04	1,480.36	27.68	54.484		
3,100.00	3,085.27	3,330.45	3,212.00	11.05	18.43	1.96	1,604.54	67.90	1,470.79	1,442.08	28.71	51.229		
3,200.00	3,179.82	3,423.86	3,299.20	11.50	19.12	0.59	1,598.56	34.97	1,430.69	1,400.89	29.80	48.017		
3,300.00	3,273.17	3,508.25	3,377.96	11.98	19.75	-0.75	1,593.00	5.16	1,387.94	1,357.11	30.83	45.023		
3,400.00	3,365.21	3,614.85	3,477.48	12.49	20.54	-2.60	1,585.07	-32.18	1,342.10	1,310.10	32.00	41.939		
3,500.00	3,455.84	3,698.21	3,555.07	13.04	21.17	-4.26	1,578.07	-61.84	1,293.20	1,260.16	33.04	39.142		
3,506.72	3,461.88	3,703.82	3,560.29	13.08	21.21	-4.37	1,577.59	-63.84	1,289.83	1,256.72	33.11	38.957		
3,600.00	3,545.62	3,777.29	3,628.70	13.62	21.76	-5.89	1,571.31	-89.90	1,243.35	1,209.30	34.05	36.512		
3,700.00	3,635.40	3,865.08	3,710.48	14.23	22.43	-7.82	1,563.65	-120.86	1,194.33	1,159.20	35.13	33.998		
3,800.00	3,725.17	3,950.51	3,790.16	14.85	23.07	-9.83	1,555.56	-150.63	1,145.77	1,109.57	36.20	31.652		
3,900.00	3,814.95	4,037.21	3,871.19	15.50	23.70	-12.00	1,547.05	-180.26	1,098.10	1,060.82	37.28	29.459		
4,000.00	3,904.73	4,126.72	3,955.55	16.15	24.33	-14.29	1,537.79	-208.71	1,050.99	1,012.65	38.35	27.406		
4,100.00	3,994.50	4,205.90	4,030.69	16.82	24.88	-16.39	1,529.41	-232.21	1,004.72	965.36	39.36	25.523		
4,200.00	4,084.28	4,276.00	4,096.84	17.51	25.36	-18.45	1,522.55	-254.36	960.88	920.52	40.36	23.809		
4,300.00	4,174.06	4,350.34	4,166.71	18.20	25.89	-20.83	1,515.64	-278.80	919.57	878.16	41.40	22.209		
4,400.00	4,263.83	4,424.77	4,236.70	18.90	26.43	-23.35	1,508.83	-303.20	880.50	838.04	42.46	20.739		
4,500.00	4,353.61	4,497.51	4,304.89	19.62	26.96	-26.00	1,502.62	-327.74	844.60	801.10	43.50	19.416		
4,600.00	4,443.38	4,572.65	4,375.02	20.33	27.52	-28.94	1,496.40	-353.99	812.17	767.62	44.55	18.229		
4,700.00	4,533.16	4,657.17	4,454.03	21.06	28.15	-32.40	1,489.56	-383.20	782.98	737.32	45.66	17.147		
4,800.00	4,622.94	4,732.53	4,524.35	21.79	28.72	-35.67	1,483.22	-409.57	757.39	710.73	46.66	16.233		
4,900.00	4,712.71	4,810.24	4,596.35	22.53	29.32	-39.27	1,476.23	-437.95	736.32	688.69	47.62	15.461		
5,000.00	4,802.49	4,895.97	4,675.78	23.27	29.99	-43.38	1,468.30	-469.20	719.70	671.10	48.60	14.809		

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 11-10-5H
<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 11-10-5H	<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 Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,892.27	4,988.16	4,761.69	24.02	30.69	-47.88	1,459.21	-501.40	706.75	657.20	49.55	14.262		
5,200.00	4,982.04	5,075.49	4,843.62	24.77	31.32	-52.19	1,450.31	-530.28	697.51	647.16	50.35	13.854		
5,300.00	5,071.82	5,159.59	4,922.77	25.53	31.92	-56.35	1,441.94	-557.45	693.02	642.03	50.99	13.591		
5,360.48	5,126.12	5,215.20	4,975.39	25.99	32.31	-59.07	1,436.72	-574.67	692.35	640.96	51.39	13.472		
5,400.00	5,161.59	5,247.70	5,006.24	26.29	32.53	-60.65	1,433.80	-584.44	692.69	641.10	51.59	13.427		
5,500.00	5,251.37	5,322.00	5,076.75	27.05	33.03	-64.23	1,427.30	-606.98	697.28	645.34	51.93	13.426		
5,600.00	5,341.15	5,392.06	5,143.03	27.81	33.52	-67.54	1,421.72	-628.96	707.72	655.57	52.15	13.571		
5,700.00	5,430.92	5,464.27	5,211.04	28.58	34.03	-70.86	1,416.68	-652.70	724.10	671.74	52.36	13.830		
5,800.00	5,520.70	5,558.87	5,300.02	29.35	34.70	-75.07	1,409.99	-684.14	745.09	692.16	52.93	14.076		
5,900.00	5,610.48	5,651.59	5,388.16	30.12	35.34	-78.99	1,403.11	-712.05	767.07	713.57	53.50	14.337		
6,000.00	5,700.25	5,718.76	5,451.75	30.90	35.79	-81.75	1,397.69	-732.99	793.63	739.91	53.72	14.774		
6,100.00	5,790.03	5,785.77	5,514.78	31.67	36.28	-84.40	1,391.88	-754.97	824.88	770.90	53.98	15.282		
6,200.00	5,879.81	5,855.89	5,580.37	32.45	36.80	-87.08	1,385.30	-778.88	860.29	805.94	54.35	15.828		
6,300.00	5,969.58	5,925.26	5,644.97	33.23	37.33	-89.61	1,378.12	-803.12	899.24	844.46	54.78	16.417		
6,400.00	6,059.36	7,864.43	6,935.04	34.01	44.61	-179.16	1,240.88	6.80	928.99	892.15	36.84	25.218		
6,500.00	6,149.13	7,866.78	6,935.09	34.79	44.63	-179.36	1,240.89	9.15	863.49	822.86	40.63	21.254		
6,600.00	6,238.91	7,869.10	6,935.13	35.58	44.65	-179.56	1,240.90	11.47	805.11	760.02	45.09	17.856		
6,700.00	6,328.69	7,871.40	6,935.17	36.36	44.68	-179.75	1,240.91	13.76	755.50	705.41	50.09	15.082		
6,800.00	6,418.46	7,873.67	6,935.21	37.15	44.70	-179.95	1,240.91	16.04	716.49	661.11	55.38	12.937		
6,900.00	6,508.24	7,875.92	6,935.25	37.94	44.72	-179.86	1,240.92	18.29	689.86	629.32	60.54	11.395		
7,000.00	6,598.02	7,878.15	6,935.28	38.73	44.74	-179.67	1,240.93	20.51	677.09	612.00	65.09	10.402		
7,037.31	6,631.51	7,878.97	6,935.30	39.02	44.75	-179.60	1,240.93	21.34	676.07	609.53	66.54	10.161	CC, ES	
7,100.00	6,687.79	7,880.35	6,935.32	39.52	44.76	-179.49	1,240.93	22.72	678.96	610.37	68.59	9.899		
7,156.65	6,738.65	7,881.59	6,935.34	39.96	44.77	-179.38	1,240.93	23.95	686.51	616.50	70.01	9.806	SF	
7,200.00	6,777.55	7,880.94	6,935.33	40.31	44.77	-170.88	1,240.93	23.31	695.33	624.53	70.80	9.821		
7,250.00	6,822.15	7,876.27	6,935.25	40.70	44.72	-159.48	1,240.92	18.63	708.55	637.18	71.37	9.928		
7,300.00	6,866.16	7,867.45	6,935.10	41.09	44.64	-148.44	1,240.89	9.81	724.68	653.08	71.60	10.121		
7,350.00	6,909.24	7,854.58	6,934.87	41.47	44.51	-138.04	1,240.85	-3.05	743.26	671.72	71.54	10.389		
7,400.00	6,951.05	7,837.79	6,934.56	41.83	44.35	-128.39	1,240.77	-19.84	763.78	692.54	71.24	10.721		
7,450.00	6,991.29	7,817.23	6,934.17	42.19	44.15	-119.51	1,240.66	-40.40	785.66	714.91	70.75	11.105		
7,500.00	7,029.64	7,797.00	6,933.78	42.53	43.96	-111.62	1,240.53	-60.62	808.35	738.16	70.19	11.517		
7,550.00	7,065.81	7,766.98	6,933.34	42.86	43.71	-104.07	1,240.24	-90.63	831.30	761.81	69.49	11.963		
7,600.00	7,099.54	7,737.08	6,933.21	43.17	43.47	-97.50	1,239.79	-120.53	854.02	785.22	68.80	12.413		
7,650.00	7,130.55	7,702.00	6,933.47	43.47	43.18	-91.63	1,239.05	-155.60	875.98	807.88	68.10	12.864		
7,700.00	7,158.62	7,673.97	6,933.26	43.76	42.98	-86.84	1,238.38	-183.62	896.85	829.31	67.54	13.280		
7,750.00	7,183.53	7,644.24	6,931.77	44.03	42.77	-82.65	1,237.69	-213.31	916.50	849.50	67.00	13.680		
7,800.00	7,205.09	7,614.38	6,928.94	44.30	42.57	-79.04	1,237.01	-243.02	934.71	868.21	66.51	14.055		
7,850.00	7,223.14	7,577.59	6,923.83	44.55	42.34	-75.80	1,236.30	-279.44	951.21	885.20	66.01	14.411		
7,900.00	7,237.54	7,537.90	6,916.73	44.80	42.11	-73.04	1,235.91	-318.49	965.53	899.98	65.55	14.729		
7,950.00	7,248.18	7,511.00	6,910.99	45.04	41.97	-71.05	1,235.87	-344.77	977.59	912.30	65.29	14.972		
8,000.00	7,254.98	7,468.48	6,900.15	45.28	41.78	-69.17	1,236.02	-385.87	987.31	922.34	64.97	15.196		
8,050.00	7,257.88	7,436.45	6,890.41	45.51	41.63	-67.90	1,236.22	-416.39	994.92	930.12	64.80	15.354		
8,062.16	7,258.00	7,416.00	6,883.51	45.57	41.54	-67.42	1,236.39	-435.63	996.54	931.92	64.62	15.421		
8,100.00	7,258.00	7,410.00	6,881.38	45.75	41.52	-67.30	1,236.45	-441.24	1,001.21	936.48	64.73	15.468		
8,200.00	7,258.00	7,346.24	6,855.90	46.30	41.31	-65.93	1,237.14	-499.67	1,016.69	952.19	64.49	15.764		
8,300.00	7,258.00	7,287.73	6,828.16	46.98	41.16	-64.47	1,237.97	-551.16	1,036.62	972.34	64.28	16.127		
8,400.00	7,258.00	7,225.00	6,794.87	47.79	41.03	-62.75	1,239.16	-604.30	1,060.83	996.85	63.97	16.583		
8,500.00	7,258.00	7,185.59	6,771.99	48.75	40.99	-61.59	1,239.94	-636.37	1,089.71	1,025.72	63.99	17.028		
8,600.00	7,258.00	7,130.00	6,736.83	49.84	40.93	-59.87	1,240.81	-679.40	1,124.03	1,060.30	63.72	17.640		
8,700.00	7,258.00	7,130.00	6,736.83	51.09	40.93	-59.87	1,240.81	-679.40	1,163.40	1,099.07	64.34	18.083		
8,800.00	7,258.00	7,074.88	6,698.99	52.47	40.92	-58.10	1,241.23	-719.47	1,207.07	1,143.02	64.06	18.844		
8,900.00	7,258.00	7,035.00	6,669.99	53.99	40.91	-56.79	1,241.15	-746.83	1,255.80	1,191.80	63.99	19.624		

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 11-10-5H
<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 11-10-5H	<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	7,258.00	7,006.89	6,648.83	55.62	40.91	-55.87	1,241.08	-765.34	1,308.54	1,244.42	64.11	20.410		
9,100.00	7,258.00	6,970.38	6,620.61	57.37	40.92	-54.65	1,241.26	-788.51	1,364.84	1,300.76	64.07	21.301		
9,200.00	7,258.00	6,940.00	6,596.53	59.21	40.93	-53.64	1,241.65	-807.02	1,424.42	1,360.30	64.11	22.217		
9,300.00	7,258.00	6,901.85	6,565.43	61.14	40.95	-52.34	1,242.90	-829.07	1,486.94	1,422.95	64.00	23.234		
9,400.00	7,258.00	6,871.36	6,539.87	63.14	40.97	-51.28	1,244.79	-845.58	1,552.24	1,488.26	63.98	24.262		
9,500.00	7,258.00	6,844.00	6,516.45	65.21	40.98	-50.30	1,247.16	-859.53	1,620.14	1,556.16	63.98	25.321		
9,600.00	7,258.00	6,844.00	6,516.45	67.33	40.98	-50.30	1,247.16	-859.53	1,690.83	1,626.44	64.39	26.258		
9,700.00	7,258.00	6,803.87	6,481.32	69.51	41.00	-48.86	1,251.68	-878.37	1,763.25	1,699.10	64.15	27.487		
9,800.00	7,258.00	6,786.62	6,465.94	71.73	41.01	-48.23	1,253.96	-885.85	1,838.09	1,773.84	64.25	28.610		
9,900.00	7,258.00	6,749.00	6,431.92	74.00	41.03	-46.85	1,259.67	-900.84	1,915.21	1,851.18	64.03	29.913		
10,000.00	7,258.00	6,749.00	6,431.92	76.30	41.03	-46.85	1,259.67	-900.84	1,993.45	1,929.10	64.35	30.978		
10,100.00	7,258.00	6,749.00	6,431.92	78.63	41.03	-46.85	1,259.67	-900.84	2,073.56	2,008.92	64.64	32.080		
10,200.00	7,258.00	6,749.00	6,431.92	80.99	41.03	-46.85	1,259.67	-900.84	2,155.33	2,090.44	64.89	33.214		
10,300.00	7,258.00	6,749.00	6,431.92	83.37	41.03	-46.85	1,259.67	-900.84	2,238.58	2,173.47	65.12	34.377		
10,400.00	7,258.00	6,749.00	6,431.92	85.78	41.03	-46.85	1,259.67	-900.84	2,323.16	2,257.84	65.32	35.566		
10,500.00	7,258.00	6,711.35	6,397.18	88.21	41.03	-45.47	1,266.00	-913.88	2,407.63	2,342.55	65.08	36.995		
10,600.00	7,258.00	6,704.33	6,390.62	90.65	41.03	-45.22	1,267.21	-916.08	2,493.93	2,428.74	65.19	38.257		
10,700.00	7,258.00	6,697.76	6,384.47	93.12	41.03	-44.98	1,268.35	-918.06	2,581.14	2,515.84	65.29	39.532		
10,800.00	7,258.00	6,654.00	6,343.00	95.59	41.02	-43.40	1,276.14	-929.64	2,670.44	2,605.43	65.01	41.077		
10,900.00	7,258.00	6,654.00	6,343.00	98.09	41.02	-43.40	1,276.14	-929.64	2,758.87	2,693.69	65.18	42.328		
11,000.00	7,258.00	6,654.00	6,343.00	100.59	41.02	-43.40	1,276.14	-929.64	2,848.06	2,782.73	65.33	43.594		
11,100.00	7,258.00	6,654.00	6,343.00	103.11	41.02	-43.40	1,276.14	-929.64	2,937.94	2,872.47	65.47	44.873		
11,200.00	7,258.00	6,654.00	6,343.00	105.64	41.02	-43.40	1,276.14	-929.64	3,028.46	2,962.86	65.60	46.164		
11,300.00	7,258.00	6,654.00	6,343.00	108.18	41.02	-43.40	1,276.14	-929.64	3,119.56	3,053.84	65.72	47.466		
11,400.00	7,258.00	6,654.00	6,343.00	110.73	41.02	-43.40	1,276.14	-929.64	3,211.19	3,145.36	65.83	48.776		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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	24.82	1,783.25	824.70	1,964.72						
100.00	100.00	99.35	99.35	0.14	0.30	24.81	1,783.48	824.55	1,964.87	1,964.43	0.44	4,440.702			
200.00	200.00	215.92	215.92	0.50	0.71	24.78	1,783.96	823.71	1,964.97	1,963.76	1.22	1,616.056			
300.00	300.00	423.66	423.43	0.86	1.46	24.63	1,779.91	816.00	1,961.56	1,959.24	2.32	844.263			
400.00	400.00	521.29	520.77	1.22	1.82	24.49	1,776.51	809.12	1,955.46	1,952.43	3.03	644.984			
500.00	500.00	666.99	665.76	1.58	2.39	24.18	1,772.10	795.54	1,949.04	1,945.10	3.93	495.597			
600.00	600.00	937.99	933.27	1.94	3.54	23.41	1,751.22	758.29	1,936.20	1,930.86	5.34	362.727			
700.00	700.00	1,149.64	1,139.00	2.29	4.58	22.62	1,722.82	717.67	1,915.89	1,909.35	6.53	293.231			
800.00	800.00	1,311.30	1,294.51	2.65	5.47	21.97	1,694.67	683.70	1,891.56	1,884.02	7.55	250.585			
900.00	900.00	1,407.48	1,386.63	3.01	6.02	21.57	1,676.54	662.82	1,865.78	1,857.47	8.31	224.483			
1,000.00	1,000.00	1,501.35	1,476.52	3.37	6.56	21.17	1,658.83	642.37	1,840.04	1,830.97	9.07	202.784			
1,100.00	1,100.00	1,584.97	1,556.69	3.73	7.05	20.80	1,643.42	624.28	1,814.85	1,805.05	9.80	185.133			
1,200.00	1,200.00	1,676.03	1,644.06	4.09	7.59	20.38	1,627.18	604.44	1,790.24	1,779.67	10.57	169.385			
1,300.00	1,300.00	1,800.08	1,762.74	4.45	8.33	19.76	1,604.55	576.34	1,765.04	1,753.56	11.47	153.823			
1,400.00	1,400.00	1,891.76	1,850.17	4.80	8.90	19.26	1,587.50	554.65	1,739.28	1,727.01	12.27	141.783			
1,500.00	1,500.00	2,069.10	2,017.67	5.16	10.07	18.12	1,552.67	508.07	1,711.94	1,698.51	13.43	127.484			
1,600.00	1,600.00	2,243.50	2,177.85	5.52	11.39	16.61	1,513.37	451.51	1,679.63	1,664.97	14.66	114.547			
1,700.00	1,700.00	2,344.96	2,269.37	5.88	12.21	15.58	1,488.99	415.11	1,645.23	1,629.59	15.64	105.219			
1,800.00	1,800.00	2,442.25	2,357.17	6.24	13.01	14.56	1,465.22	380.60	1,611.06	1,594.45	16.61	96.994			
1,900.00	1,900.00	2,540.81	2,446.05	6.60	13.83	13.50	1,440.51	345.90	1,576.82	1,559.22	17.60	89.569			
2,000.00	2,000.00	2,626.33	2,523.33	6.95	14.54	12.58	1,418.67	316.49	1,542.86	1,524.31	18.55	83.168			
2,100.00	2,100.00	2,710.69	2,600.00	7.31	15.22	11.67	1,397.13	288.67	1,509.75	1,490.26	19.49	77.452			
2,200.00	2,200.00	2,796.46	2,678.33	7.67	15.91	10.76	1,375.23	261.45	1,477.40	1,456.96	20.45	72.258			
2,300.00	2,299.98	2,901.07	2,774.09	8.03	16.75	8.99	1,348.35	229.04	1,443.93	1,422.44	21.49	67.200			
2,400.00	2,399.84	2,994.85	2,859.15	8.39	17.51	8.01	1,323.47	198.40	1,406.41	1,383.90	22.50	62.500			
2,500.00	2,499.45	3,072.55	2,930.02	8.75	18.14	7.20	1,303.09	173.88	1,366.68	1,343.22	23.46	58.256			
2,600.00	2,598.70	3,149.97	3,001.08	9.10	18.76	6.39	1,283.12	150.55	1,324.88	1,300.47	24.41	54.272			
2,700.00	2,697.47	3,228.00	3,073.17	9.47	19.36	5.57	1,263.40	128.14	1,281.04	1,255.69	25.35	50.538			
2,800.00	2,795.62	3,302.61	3,142.57	9.84	19.91	4.80	1,244.91	107.93	1,235.14	1,208.89	26.25	47.048			
2,900.00	2,893.06	3,382.52	3,217.34	10.23	20.47	3.95	1,225.43	87.54	1,187.08	1,159.92	27.16	43.711			
3,000.00	2,989.64	3,462.94	3,292.82	10.63	21.04	3.03	1,206.01	67.72	1,136.58	1,108.52	28.06	40.507			
3,100.00	3,085.27	3,543.27	3,368.40	11.05	21.60	2.05	1,186.79	48.46	1,083.66	1,054.69	28.96	37.417			
3,200.00	3,179.82	3,627.69	3,447.67	11.50	22.20	0.80	1,166.72	27.47	1,028.19	998.29	29.89	34.397			
3,300.00	3,273.17	3,719.56	3,532.89	11.98	22.89	-1.01	1,144.03	1.78	969.24	938.34	30.90	31.366			
3,400.00	3,365.21	3,785.79	3,593.77	12.49	23.41	-2.71	1,127.80	-18.67	908.11	876.20	31.92	28.452			
3,500.00	3,455.84	3,859.47	3,661.21	13.04	24.00	-5.06	1,110.19	-42.52	845.44	812.43	33.01	25.611			
3,506.72	3,461.88	3,864.50	3,665.81	13.08	24.05	-5.23	1,108.98	-44.16	841.15	808.07	33.09	25.423			
3,600.00	3,545.62	3,933.31	3,728.70	13.62	24.60	-7.68	1,092.29	-66.55	781.98	747.82	34.16	22.892			
3,700.00	3,635.40	4,004.41	3,793.65	14.23	25.18	-10.58	1,074.88	-89.66	719.60	684.22	35.38	20.341			
3,800.00	3,725.17	4,069.59	3,853.41	14.85	25.70	-13.57	1,059.31	-110.52	659.22	622.56	36.66	17.981			
3,900.00	3,814.95	4,139.49	3,917.93	15.50	26.24	-17.14	1,043.23	-132.05	601.37	563.33	38.04	15.811			
4,000.00	3,904.73	4,209.70	3,983.31	16.15	26.77	-21.09	1,027.53	-152.26	546.17	506.68	39.49	13.830			
4,100.00	3,994.50	4,277.52	4,046.59	16.82	27.27	-25.47	1,013.06	-171.89	494.84	453.80	41.05	12.056			
4,200.00	4,084.28	4,350.36	4,114.21	17.51	27.83	-30.98	997.61	-194.11	448.28	405.53	42.75	10.486			
4,300.00	4,174.06	4,420.27	4,178.56	18.20	28.38	-37.18	982.45	-216.87	408.15	363.66	44.49	9.173			
4,400.00	4,263.83	4,491.36	4,243.85	18.90	28.95	-44.20	967.34	-240.58	376.91	330.83	46.08	8.180			
4,500.00	4,353.61	4,566.37	4,312.95	19.62	29.54	-52.16	951.66	-265.18	356.06	308.80	47.26	7.534			
4,600.00	4,443.38	4,639.76	4,380.63	20.33	30.12	-60.30	936.26	-289.02	347.26	299.55	47.71	7.278			
4,616.74	4,458.42	4,651.98	4,391.89	20.46	30.21	-61.68	933.67	-293.01	347.07	299.37	47.71	7.275 CC, ES, SF			
4,700.00	4,533.16	4,713.19	4,448.18	21.06	30.70	-68.57	920.37	-313.04	351.66	304.30	47.37	7.424			
4,800.00	4,622.94	4,786.21	4,515.14	21.79	31.29	-76.62	903.79	-336.98	369.00	322.58	46.42	7.949			
4,900.00	4,712.71	4,860.28	4,583.18	22.53	31.88	-84.22	887.07	-361.00	397.50	352.18	45.32	8.771			

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 11-10-5H
<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 11-10-5H	<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	4,802.49	4,933.75	4,650.77	23.27	32.47	-91.04	870.50	-384.58	434.94	390.57	44.37	9.802		
5,100.00	4,892.27	5,011.40	4,722.35	24.02	33.08	-97.42	852.96	-409.03	478.98	435.13	43.85	10.924		
5,200.00	4,982.04	5,084.06	4,789.53	24.77	33.64	-102.64	836.62	-431.37	527.77	484.22	43.55	12.119		
5,300.00	5,071.82	5,157.19	4,857.02	25.53	34.21	-107.23	820.01	-454.10	580.85	537.29	43.56	13.334		
5,400.00	5,161.59	5,237.61	4,931.56	26.29	34.83	-111.58	802.06	-478.40	636.16	592.21	43.95	14.474		
5,500.00	5,251.37	5,303.00	4,992.12	27.05	35.34	-114.63	787.65	-498.38	693.87	649.67	44.21	15.696		
5,600.00	5,341.15	5,385.55	5,068.49	27.81	35.97	-117.95	769.60	-524.00	753.54	708.61	44.93	16.772		
5,700.00	5,430.92	5,487.99	5,164.26	28.58	36.72	-121.52	747.94	-553.19	812.66	766.61	46.05	17.649		
5,800.00	5,520.70	5,573.90	5,245.43	29.35	37.31	-124.16	730.55	-575.30	870.71	823.82	46.89	18.569		
5,900.00	5,610.48	5,676.89	5,343.20	30.12	37.99	-126.93	710.30	-600.55	928.83	880.84	48.00	19.352		
6,000.00	5,700.25	5,758.45	5,421.30	30.90	38.50	-128.96	694.68	-618.11	985.68	936.88	48.80	20.198		
6,100.00	5,790.03	5,844.06	5,503.23	31.67	39.02	-130.89	677.74	-636.27	1,043.54	993.88	49.67	21.011		
6,200.00	5,879.81	5,966.40	5,621.27	32.45	39.72	-133.45	654.48	-658.37	1,099.98	1,049.03	50.95	21.589		
6,300.00	5,969.58	6,083.57	5,735.38	33.23	40.34	-135.46	637.05	-678.43	1,153.82	1,101.69	52.13	22.134		
6,400.00	6,059.36	6,184.79	5,834.42	34.01	40.84	-136.98	624.10	-694.84	1,206.33	1,153.20	53.13	22.707		
6,500.00	6,149.13	6,349.06	5,996.59	34.79	41.52	-139.21	608.83	-715.72	1,254.44	1,199.88	54.56	22.994		
6,600.00	6,238.91	6,562.47	6,209.25	35.58	42.16	-141.79	602.13	-730.93	1,295.23	1,239.31	55.92	23.162		
6,700.00	6,328.69	6,683.59	6,330.35	36.36	42.42	-143.28	601.29	-732.69	1,332.84	1,276.06	56.78	23.473		
6,800.00	6,418.46	6,792.94	6,439.69	37.15	42.61	-144.59	601.32	-732.12	1,369.42	1,311.83	57.59	23.781		
6,900.00	6,508.24	7,475.65	7,050.49	37.94	42.63	-159.75	603.03	-473.41	1,392.02	1,336.55	55.47	25.095		
7,000.00	6,598.02	7,655.66	7,160.32	38.73	42.63	-165.91	602.46	-331.55	1,395.24	1,338.25	56.99	24.481		
7,100.00	6,687.79	7,766.04	7,206.93	39.52	42.72	-170.12	598.27	-231.69	1,400.20	1,340.87	59.33	23.601		
7,156.65	6,738.65	7,807.55	7,220.77	39.96	42.78	-171.75	596.38	-192.60	1,405.29	1,344.67	60.61	23.184		
7,200.00	6,777.55	7,839.61	7,230.13	40.31	42.83	-163.76	594.96	-161.98	1,410.13	1,348.50	61.64	22.878		
7,250.00	6,822.15	7,856.04	7,234.49	40.70	42.86	-154.15	594.28	-146.16	1,416.61	1,354.01	62.59	22.631		
7,300.00	6,866.16	7,857.90	7,234.96	41.09	42.87	-144.86	594.20	-144.36	1,424.14	1,360.78	63.36	22.477		
7,350.00	6,909.24	7,849.96	7,232.91	41.47	42.85	-136.31	594.53	-152.02	1,432.67	1,368.70	63.97	22.395		
7,400.00	6,951.05	7,835.20	7,228.91	41.83	42.82	-128.64	595.15	-166.21	1,442.07	1,377.61	64.46	22.370		
7,450.00	6,991.29	7,815.56	7,223.21	42.19	42.79	-121.81	596.01	-184.99	1,452.15	1,387.29	64.86	22.389		
7,500.00	7,029.64	7,793.69	7,216.36	42.53	42.75	-115.81	597.02	-205.74	1,462.68	1,397.48	65.19	22.435		
7,550.00	7,065.81	7,774.94	7,210.06	42.86	42.73	-110.69	597.87	-223.37	1,473.49	1,407.93	65.56	22.476		
7,600.00	7,099.54	7,754.22	7,202.62	43.17	42.71	-106.15	598.79	-242.69	1,484.40	1,418.53	65.87	22.534		
7,650.00	7,130.55	7,731.90	7,194.07	43.47	42.69	-102.10	599.73	-263.28	1,495.22	1,429.07	66.15	22.602		
7,700.00	7,158.62	7,708.29	7,184.41	43.76	42.66	-98.50	600.68	-284.81	1,505.74	1,439.33	66.41	22.673		
7,750.00	7,183.53	7,686.48	7,174.90	44.03	42.65	-95.39	601.49	-304.41	1,515.80	1,449.10	66.71	22.724		
7,800.00	7,205.09	7,665.11	7,164.93	44.30	42.64	-92.69	602.19	-323.30	1,525.29	1,458.27	67.02	22.759		
7,850.00	7,223.14	7,643.33	7,154.12	44.55	42.63	-90.33	602.79	-342.19	1,534.05	1,466.71	67.34	22.781		
7,900.00	7,237.54	7,606.00	7,134.09	44.80	42.61	-87.89	603.57	-373.69	1,542.08	1,474.54	67.54	22.832		
7,950.00	7,248.18	7,606.00	7,134.09	45.04	42.61	-86.80	603.57	-373.69	1,548.92	1,480.83	68.09	22.748		
8,000.00	7,254.98	7,578.82	7,118.35	45.28	42.61	-85.28	603.89	-395.83	1,554.78	1,486.33	68.46	22.712		
8,050.00	7,257.88	7,557.93	7,105.60	45.51	42.61	-84.24	603.98	-412.38	1,559.53	1,490.64	68.90	22.636		
8,062.16	7,258.00	7,552.82	7,102.40	45.57	42.61	-84.04	603.98	-416.36	1,560.51	1,491.50	69.00	22.615		
8,100.00	7,258.00	7,537.23	7,092.42	45.75	42.62	-83.67	603.92	-428.35	1,563.73	1,494.37	69.35	22.547		
8,200.00	7,258.00	7,511.00	7,074.97	46.30	42.62	-83.04	603.65	-447.92	1,575.38	1,504.96	70.42	22.371		
8,300.00	7,258.00	7,449.64	7,031.98	46.98	42.64	-81.48	602.44	-491.67	1,590.97	1,519.70	71.26	22.325		
8,400.00	7,258.00	7,416.00	7,007.40	47.79	42.66	-80.59	601.53	-514.63	1,610.87	1,538.57	72.30	22.279		
8,500.00	7,258.00	7,361.43	6,965.96	48.75	42.69	-79.12	599.96	-550.08	1,634.76	1,561.58	73.18	22.339		
8,600.00	7,258.00	7,321.00	6,933.97	49.84	42.72	-77.99	598.88	-574.77	1,662.76	1,588.65	74.11	22.436		
8,700.00	7,258.00	7,284.77	6,904.28	51.09	42.74	-76.95	598.12	-595.51	1,694.86	1,619.84	75.02	22.592		
8,800.00	7,258.00	7,253.19	6,877.53	52.47	42.76	-76.02	597.71	-612.30	1,731.07	1,655.18	75.89	22.811		
8,900.00	7,258.00	7,226.00	6,853.91	53.99	42.78	-75.20	597.57	-625.76	1,771.33	1,694.62	76.71	23.091		
9,000.00	7,258.00	7,195.98	6,827.37	55.62	42.79	-74.29	597.55	-639.79	1,815.45	1,738.03	77.42	23.449		

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 11-10-5H
<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 11-10-5H	<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)			
9,100.00	7,258.00	7,168.69	6,802.96	57.37	42.81	-73.45	597.60	-651.99	1,863.21	1,785.13	78.08	23.864	
9,200.00	7,258.00	7,130.00	6,767.92	59.21	42.83	-72.27	597.80	-668.39	1,914.48	1,835.93	78.55	24.374	
9,300.00	7,258.00	7,130.00	6,767.92	61.14	42.83	-72.27	597.80	-668.39	1,968.86	1,889.59	79.28	24.835	
9,400.00	7,258.00	7,130.00	6,767.92	63.14	42.83	-72.27	597.80	-668.39	2,026.72	1,946.81	79.91	25.362	
9,500.00	7,258.00	7,094.98	6,735.66	65.21	42.83	-71.19	598.06	-682.01	2,086.94	2,006.75	80.20	26.023	
9,600.00	7,258.00	7,082.55	6,724.07	67.33	42.84	-70.81	598.16	-686.48	2,150.19	2,069.60	80.59	26.679	
9,700.00	7,258.00	7,071.12	6,713.34	69.51	42.84	-70.45	598.24	-690.43	2,215.97	2,135.03	80.94	27.378	
9,800.00	7,258.00	7,035.00	6,679.07	71.73	42.84	-69.33	598.54	-701.83	2,284.52	2,203.48	81.04	28.189	
9,900.00	7,258.00	7,035.00	6,679.07	74.00	42.84	-69.33	598.54	-701.83	2,354.47	2,273.09	81.38	28.933	
10,000.00	7,258.00	7,035.00	6,679.07	76.30	42.84	-69.33	598.54	-701.83	2,426.53	2,344.87	81.66	29.715	
10,100.00	7,258.00	7,035.00	6,679.07	78.63	42.84	-69.33	598.54	-701.83	2,500.51	2,418.61	81.90	30.531	
10,200.00	7,258.00	7,035.00	6,679.07	80.99	42.84	-69.33	598.54	-701.83	2,576.25	2,494.15	82.10	31.380	
10,300.00	7,258.00	7,035.00	6,679.07	83.37	42.84	-69.33	598.54	-701.83	2,653.59	2,571.33	82.26	32.257	
10,400.00	7,258.00	7,035.00	6,679.07	85.78	42.84	-69.33	598.54	-701.83	2,732.41	2,650.01	82.40	33.161	
10,500.00	7,258.00	7,035.00	6,679.07	88.21	42.84	-69.33	598.54	-701.83	2,812.57	2,730.06	82.51	34.088	
10,600.00	7,258.00	7,035.00	6,679.07	90.65	42.84	-69.33	598.54	-701.83	2,893.97	2,811.38	82.59	35.038	
10,700.00	7,258.00	7,035.00	6,679.07	93.12	42.84	-69.33	598.54	-701.83	2,976.50	2,893.84	82.66	36.008	
10,800.00	7,258.00	7,035.00	6,679.07	95.59	42.84	-69.33	598.54	-701.83	3,060.08	2,977.36	82.71	36.996	
10,900.00	7,258.00	6,993.60	6,639.07	98.09	42.82	-68.04	598.96	-712.47	3,143.03	3,060.48	82.55	38.075	
11,000.00	7,258.00	6,989.91	6,635.47	100.59	42.82	-67.93	599.01	-713.27	3,228.15	3,145.58	82.56	39.099	

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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)				
4,300.00	4,174.06	13,628.00	7,212.49	18.20	176.18	179.46	-393.68	16.36	3,244.28	3,159.08	85.20	38.078		
4,400.00	4,263.83	13,628.00	7,212.49	18.90	176.18	179.46	-393.68	16.36	3,174.05	3,085.79	88.26	35.963		
4,500.00	4,353.61	13,628.00	7,212.49	19.62	176.18	179.46	-393.68	16.36	3,105.45	3,013.94	91.51	33.935		
4,600.00	4,443.38	13,628.00	7,212.49	20.33	176.18	179.46	-393.68	16.36	3,038.59	2,943.64	94.96	32.000		
4,700.00	4,533.16	13,628.00	7,212.49	21.06	176.18	179.46	-393.68	16.36	2,973.59	2,875.00	98.59	30.161		
4,800.00	4,622.94	13,628.00	7,212.49	21.79	176.18	179.46	-393.68	16.36	2,910.58	2,808.16	102.42	28.418		
4,900.00	4,712.71	13,628.00	7,212.49	22.53	176.18	179.46	-393.68	16.36	2,849.68	2,743.25	106.43	26.775		
5,000.00	4,802.49	13,628.00	7,212.49	23.27	176.18	179.46	-393.68	16.36	2,791.04	2,680.42	110.62	25.231		
5,100.00	4,892.27	13,628.00	7,212.49	24.02	176.18	179.46	-393.68	16.36	2,734.80	2,619.82	114.98	23.785		
5,200.00	4,982.04	13,628.00	7,212.49	24.77	176.18	179.46	-393.68	16.36	2,681.11	2,561.62	119.49	22.437		
5,300.00	5,071.82	13,628.00	7,212.49	25.53	176.18	179.46	-393.68	16.36	2,630.13	2,505.98	124.15	21.185		
5,400.00	5,161.59	13,628.00	7,212.49	26.29	176.18	179.46	-393.68	16.36	2,582.01	2,453.08	128.93	20.027		
5,500.00	5,251.37	13,628.00	7,212.49	27.05	176.18	179.46	-393.68	16.36	2,536.93	2,403.12	133.81	18.959		
5,600.00	5,341.15	13,628.00	7,212.49	27.81	176.18	179.46	-393.68	16.36	2,495.04	2,356.28	138.76	17.980		
5,700.00	5,430.92	13,628.00	7,212.49	28.58	176.18	179.46	-393.68	16.36	2,456.51	2,312.75	143.77	17.087		
5,800.00	5,520.70	13,628.00	7,212.49	29.35	176.18	179.46	-393.68	16.36	2,421.50	2,272.72	148.78	16.276		
5,900.00	5,610.48	13,628.00	7,212.49	30.12	176.18	179.46	-393.68	16.36	2,390.16	2,236.39	153.78	15.543		
6,000.00	5,700.25	13,628.00	7,212.49	30.90	176.18	179.46	-393.68	16.36	2,362.65	2,203.93	158.71	14.886		
6,100.00	5,790.03	13,628.00	7,212.49	31.67	176.18	179.46	-393.68	16.36	2,339.09	2,175.53	163.55	14.302		
6,200.00	5,879.81	13,628.00	7,212.49	32.45	176.18	179.46	-393.68	16.36	2,319.60	2,151.34	168.26	13.786		
6,300.00	5,969.58	13,628.00	7,212.49	33.23	176.18	179.46	-393.68	16.36	2,304.29	2,131.51	172.79	13.336		
6,400.00	6,059.36	13,628.00	7,212.49	34.01	176.18	179.46	-393.68	16.36	2,293.25	2,116.15	177.10	12.949		
6,500.00	6,149.13	13,628.00	7,212.49	34.79	176.18	179.46	-393.68	16.36	2,286.53	2,105.36	181.17	12.621		
6,600.00	6,238.91	13,628.00	7,212.49	35.58	176.18	179.46	-393.68	16.36	2,284.17	2,099.21	184.96	12.350		
6,603.90	6,242.41	13,628.00	7,212.49	35.61	176.18	179.46	-393.68	16.36	2,284.16	2,099.07	185.10	12.340	CC	
6,700.00	6,328.69	13,628.00	7,212.49	36.36	176.18	179.46	-393.68	16.36	2,286.16	2,097.74	188.44	12.132	ES	
6,800.00	6,418.46	13,628.00	7,212.49	37.15	176.18	179.46	-393.68	16.36	2,292.57	2,100.96	191.60	11.965		
6,900.00	6,508.24	13,628.00	7,212.49	37.94	176.18	179.46	-393.68	16.36	2,303.28	2,108.85	194.43	11.846		
7,000.00	6,598.02	13,628.00	7,212.49	38.73	176.18	179.46	-393.68	16.36	2,318.25	2,121.35	196.90	11.773		
7,100.00	6,687.79	13,628.00	7,212.49	39.52	176.18	179.46	-393.68	16.36	2,337.42	2,138.38	199.03	11.744	SF	
7,156.65	6,738.65	13,628.00	7,212.49	39.96	176.18	179.46	-393.68	16.36	2,350.09	2,150.00	200.09	11.745		
7,200.00	6,777.55	13,628.00	7,212.49	40.31	176.18	-170.67	-393.68	16.36	2,360.64	2,159.82	200.82	11.755		
7,250.00	6,822.15	13,628.00	7,212.49	40.70	176.18	-159.70	-393.68	16.36	2,373.61	2,172.05	201.56	11.776		
7,300.00	6,866.16	13,628.00	7,212.49	41.09	176.18	-149.66	-393.68	16.36	2,387.34	2,185.13	202.21	11.806		
7,350.00	6,909.24	13,628.00	7,212.49	41.47	176.18	-140.79	-393.68	16.36	2,401.71	2,198.95	202.75	11.845		
7,400.00	6,951.05	13,628.00	7,212.49	41.83	176.18	-133.10	-393.68	16.36	2,416.59	2,213.40	203.19	11.893		
7,450.00	6,991.29	13,628.00	7,212.49	42.19	176.18	-126.47	-393.68	16.36	2,431.88	2,228.36	203.52	11.949		
7,500.00	7,029.64	13,628.00	7,212.49	42.53	176.18	-120.74	-393.68	16.36	2,447.45	2,243.69	203.76	12.012		
7,550.00	7,065.81	13,628.00	7,212.49	42.86	176.18	-115.76	-393.68	16.36	2,463.16	2,259.27	203.89	12.081		
7,600.00	7,099.54	13,628.00	7,212.49	43.17	176.18	-111.42	-393.68	16.36	2,478.91	2,274.98	203.94	12.155		
7,650.00	7,130.55	13,628.00	7,212.49	43.47	176.18	-107.60	-393.68	16.36	2,494.57	2,290.68	203.89	12.235		
7,700.00	7,158.62	13,628.00	7,212.49	43.76	176.18	-104.23	-393.68	16.36	2,510.03	2,306.26	203.77	12.318		
7,750.00	7,183.53	13,628.00	7,212.49	44.03	176.18	-101.25	-393.68	16.36	2,525.17	2,321.60	203.58	12.404		
7,800.00	7,205.09	13,628.00	7,212.49	44.30	176.18	-98.63	-393.68	16.36	2,539.89	2,336.57	203.32	12.492		
7,850.00	7,223.14	13,628.00	7,212.49	44.55	176.18	-96.33	-393.68	16.36	2,554.08	2,351.07	203.01	12.581		
7,900.00	7,237.54	13,628.00	7,212.49	44.80	176.18	-94.33	-393.68	16.36	2,567.64	2,365.00	202.64	12.671		
7,950.00	7,248.18	13,628.00	7,212.49	45.04	176.18	-92.62	-393.68	16.36	2,580.48	2,378.25	202.23	12.760		
8,000.00	7,254.98	13,628.00	7,212.49	45.28	176.18	-91.19	-393.68	16.36	2,592.52	2,390.74	201.78	12.848		
8,050.00	7,257.88	13,628.00	7,212.49	45.51	176.18	-90.03	-393.68	16.36	2,603.67	2,402.38	201.29	12.935		
8,062.16	7,258.00	13,628.00	7,212.49	45.57	176.18	-89.79	-393.68	16.36	2,606.24	2,405.07	201.16	12.956		
8,100.00	7,258.00	13,628.00	7,212.49	45.75	176.18	-89.79	-393.68	16.36	2,614.40	2,413.64	200.76	13.022		
8,200.00	7,258.00	13,628.00	7,212.49	46.30	176.18	-89.79	-393.68	16.36	2,638.48	2,438.84	199.64	13.216		

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 11-10-5H
<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 11-10-5H	<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)				
8,300.00	7,258.00	13,628.00	7,212.49	46.98	176.18	-89.79	-393.68	16.36	2,666.09	2,467.68	198.41	13.437		
8,400.00	7,258.00	13,628.00	7,212.49	47.79	176.18	-89.79	-393.68	16.36	2,697.13	2,500.05	197.08	13.685		
8,500.00	7,258.00	13,628.00	7,212.49	48.75	176.18	-89.79	-393.68	16.36	2,731.48	2,535.83	195.65	13.961		
8,600.00	7,258.00	13,628.00	7,212.49	49.84	176.18	-89.79	-393.68	16.36	2,769.02	2,574.89	194.14	14.263		
8,700.00	7,258.00	13,628.00	7,212.49	51.09	176.18	-89.79	-393.68	16.36	2,809.62	2,617.08	192.53	14.593		
8,800.00	7,258.00	13,628.00	7,212.49	52.47	176.18	-89.79	-393.68	16.36	2,853.14	2,662.28	190.86	14.949		
8,900.00	7,258.00	13,628.00	7,212.49	53.99	176.18	-89.79	-393.68	16.36	2,899.47	2,710.35	189.12	15.331		
9,000.00	7,258.00	13,628.00	7,212.49	55.62	176.18	-89.79	-393.68	16.36	2,948.45	2,761.13	187.32	15.740		
9,100.00	7,258.00	13,628.00	7,212.49	57.37	176.18	-89.79	-393.68	16.36	2,999.97	2,814.49	185.48	16.174		
9,200.00	7,258.00	13,628.00	7,212.49	59.21	176.18	-89.79	-393.68	16.36	3,053.90	2,870.30	183.60	16.633		
9,300.00	7,258.00	13,628.00	7,212.49	61.14	176.18	-89.79	-393.68	16.36	3,110.11	2,928.42	181.70	17.117		
9,400.00	7,258.00	13,628.00	7,212.49	63.14	176.18	-89.79	-393.68	16.36	3,168.48	2,988.71	179.77	17.625		
9,500.00	7,258.00	13,628.00	7,212.49	65.21	176.18	-89.79	-393.68	16.36	3,228.89	3,051.06	177.84	18.156		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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 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)				
4,300.00	4,174.06	13,558.00	7,081.26	18.20	175.40	179.39	-760.37	17.01	3,260.35	3,160.47	99.88	32.644		
4,400.00	4,263.83	13,558.00	7,081.26	18.90	175.40	179.39	-760.37	17.01	3,199.21	3,095.78	103.43	30.931		
4,500.00	4,353.61	13,558.00	7,081.26	19.62	175.40	179.39	-760.37	17.01	3,140.07	3,032.94	107.13	29.310		
4,600.00	4,443.38	13,558.00	7,081.26	20.33	175.40	179.39	-760.37	17.01	3,083.04	2,972.07	110.97	27.782		
4,700.00	4,533.16	13,558.00	7,081.26	21.06	175.40	179.39	-760.37	17.01	3,028.24	2,913.29	114.94	26.345		
4,800.00	4,622.94	13,558.00	7,081.26	21.79	175.40	179.39	-760.37	17.01	2,975.78	2,856.75	119.04	24.999		
4,900.00	4,712.71	13,558.00	7,081.26	22.53	175.40	179.39	-760.37	17.01	2,925.81	2,802.57	123.24	23.740		
5,000.00	4,802.49	13,558.00	7,081.26	23.27	175.40	179.39	-760.37	17.01	2,878.45	2,750.91	127.54	22.569		
5,100.00	4,892.27	13,558.00	7,081.26	24.02	175.40	179.39	-760.37	17.01	2,833.82	2,701.90	131.92	21.481		
5,200.00	4,982.04	13,558.00	7,081.26	24.77	175.40	179.39	-760.37	17.01	2,792.07	2,655.71	136.36	20.476		
5,300.00	5,071.82	13,558.00	7,081.26	25.53	175.40	179.39	-760.37	17.01	2,753.31	2,612.47	140.84	19.549		
5,400.00	5,161.59	13,558.00	7,081.26	26.29	175.40	179.39	-760.37	17.01	2,717.68	2,572.34	145.34	18.699		
5,500.00	5,251.37	13,558.00	7,081.26	27.05	175.40	179.39	-760.37	17.01	2,685.31	2,535.48	149.83	17.922		
5,600.00	5,341.15	13,558.00	7,081.26	27.81	175.40	179.39	-760.37	17.01	2,656.31	2,502.02	154.29	17.217		
5,700.00	5,430.92	13,558.00	7,081.26	28.58	175.40	179.39	-760.37	17.01	2,630.79	2,472.10	158.68	16.579		
5,800.00	5,520.70	13,558.00	7,081.26	29.35	175.40	179.39	-760.37	17.01	2,608.86	2,445.86	162.99	16.006		
5,900.00	5,610.48	13,558.00	7,081.26	30.12	175.40	179.39	-760.37	17.01	2,590.60	2,423.42	167.19	15.495		
6,000.00	5,700.25	13,558.00	7,081.26	30.90	175.40	179.39	-760.37	17.01	2,576.10	2,404.87	171.23	15.044		
6,100.00	5,790.03	13,558.00	7,081.26	31.67	175.40	179.39	-760.37	17.01	2,565.42	2,390.31	175.11	14.650		
6,200.00	5,879.81	13,558.00	7,081.26	32.45	175.40	179.39	-760.37	17.01	2,558.61	2,379.82	178.79	14.311		
6,300.00	5,969.58	13,558.00	7,081.26	33.23	175.40	179.39	-760.37	17.01	2,555.69	2,373.43	182.26	14.023		
6,324.58	5,991.65	13,558.00	7,081.26	33.42	175.40	179.39	-760.37	17.01	2,555.57	2,372.50	183.07	13.959	CC	
6,400.00	6,059.36	13,558.00	7,081.26	34.01	175.40	179.39	-760.37	17.01	2,556.68	2,371.20	185.48	13.784	ES	
6,500.00	6,149.13	13,558.00	7,081.26	34.79	175.40	179.39	-760.37	17.01	2,561.59	2,373.13	188.46	13.592		
6,600.00	6,238.91	13,558.00	7,081.26	35.58	175.40	179.39	-760.37	17.01	2,570.37	2,379.20	191.17	13.446		
6,700.00	6,328.69	13,558.00	7,081.26	36.36	175.40	179.39	-760.37	17.01	2,583.00	2,389.39	193.61	13.341		
6,800.00	6,418.46	13,557.79	7,081.26	37.15	175.40	179.38	-760.37	17.23	2,599.42	2,403.65	195.77	13.278		
6,900.00	6,508.24	13,557.14	7,081.26	37.94	175.38	179.37	-760.38	17.87	2,619.55	2,421.92	197.64	13.254	SF	
7,000.00	6,598.02	13,556.50	7,081.26	38.73	175.36	179.36	-760.38	18.51	2,643.32	2,444.08	199.24	13.267		
7,100.00	6,687.79	13,555.86	7,081.26	39.52	175.35	179.34	-760.38	19.16	2,670.62	2,470.05	200.57	13.315		
7,156.65	6,738.65	13,555.49	7,081.26	39.96	175.34	179.33	-760.38	19.52	2,687.62	2,486.40	201.21	13.357		
7,200.00	6,777.55	13,556.85	7,081.26	40.31	175.37	-170.41	-760.38	18.16	2,701.33	2,499.63	201.70	13.393		
7,250.00	6,822.15	13,558.00	7,081.26	40.70	175.40	-159.01	-760.37	17.01	2,717.77	2,515.59	202.18	13.442		
7,300.00	6,866.16	13,558.00	7,081.26	41.09	175.40	-148.59	-760.37	17.01	2,734.77	2,532.20	202.57	13.500		
7,350.00	6,909.24	13,558.00	7,081.26	41.47	175.40	-139.37	-760.37	17.01	2,752.19	2,549.28	202.90	13.564		
7,400.00	6,951.05	13,558.00	7,081.26	41.83	175.40	-131.36	-760.37	17.01	2,769.87	2,566.70	203.17	13.633		
7,450.00	6,991.29	13,558.00	7,081.26	42.19	175.40	-124.44	-760.37	17.01	2,787.70	2,584.32	203.37	13.707		
7,500.00	7,029.64	13,558.00	7,081.26	42.53	175.40	-118.46	-760.37	17.01	2,805.52	2,602.00	203.52	13.785		
7,550.00	7,065.81	13,558.00	7,081.26	42.86	175.40	-113.27	-760.37	17.01	2,823.20	2,619.60	203.61	13.866		
7,600.00	7,099.54	13,558.00	7,081.26	43.17	175.40	-108.75	-760.37	17.01	2,840.62	2,636.98	203.64	13.949		
7,650.00	7,130.55	13,558.00	7,081.26	43.47	175.40	-104.80	-760.37	17.01	2,857.65	2,654.01	203.63	14.033		
7,700.00	7,158.62	13,558.00	7,081.26	43.76	175.40	-101.34	-760.37	17.01	2,874.16	2,670.58	203.58	14.118		
7,750.00	7,183.53	13,558.00	7,081.26	44.03	175.40	-98.31	-760.37	17.01	2,890.04	2,686.54	203.49	14.202		
7,800.00	7,205.09	13,558.00	7,081.26	44.30	175.40	-95.67	-760.37	17.01	2,905.18	2,701.80	203.38	14.284		
7,850.00	7,223.14	13,558.00	7,081.26	44.55	175.40	-93.39	-760.37	17.01	2,919.48	2,716.24	203.24	14.365		
7,900.00	7,237.54	13,558.00	7,081.26	44.80	175.40	-91.44	-760.37	17.01	2,932.84	2,729.75	203.09	14.441		
7,950.00	7,248.18	13,558.00	7,081.26	45.04	175.40	-89.80	-760.37	17.01	2,945.17	2,742.26	202.91	14.514		
8,000.00	7,254.98	13,558.00	7,081.26	45.28	175.40	-88.47	-760.37	17.01	2,956.40	2,753.67	202.73	14.583		
8,050.00	7,257.88	13,558.00	7,081.26	45.51	175.40	-87.44	-760.37	17.01	2,966.44	2,763.92	202.53	14.647		
8,062.16	7,258.00	13,558.00	7,081.26	45.57	175.40	-87.24	-760.37	17.01	2,968.70	2,766.22	202.48	14.662		
8,100.00	7,258.00	13,558.00	7,081.26	45.75	175.40	-87.24	-760.37	17.01	2,975.84	2,773.53	202.32	14.709		
8,200.00	7,258.00	13,558.00	7,081.26	46.30	175.40	-87.24	-760.37	17.01	2,996.94	2,795.08	201.85	14.847		

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 11-10-5H
<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 11-10-5H	<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 40N-11HZ - 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</b>	<b>Vertical</b>	<b>Measured</b>	<b>Vertical</b>	<b>Reference</b>	<b>Offset</b>	<b>Reference</b>	<b>Offset</b>	<b>Toolface</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Between</b>	<b>Between</b>	<b>Minimum</b>	<b>Separation</b>						
<b>Depth</b>	<b>Depth</b>	<b>Depth</b>	<b>Depth</b>	<b>(usft)</b>	<b>(usft)</b>	<b>(usft)</b>	<b>(usft)</b>	<b>(°)</b>	<b>(usft)</b>	<b>(usft)</b>	<b>(usft)</b>	<b>(usft)</b>	<b>(usft)</b>	<b>(usft)</b>	<b>Factor</b>					
8,300.00	7,258.00	13,558.00	7,081.26	46.98	175.40	-87.24	-760.37	17.01	3,021.20	2,819.87	201.32	15.007								
8,400.00	7,258.00	13,558.00	7,081.26	47.79	175.40	-87.24	-760.37	17.01	3,048.54	2,847.82	200.72	15.188								
8,500.00	7,258.00	13,558.00	7,081.26	48.75	175.40	-87.24	-760.37	17.01	3,078.90	2,878.85	200.05	15.391								
8,600.00	7,258.00	13,558.00	7,081.26	49.84	175.40	-87.24	-760.37	17.01	3,112.17	2,912.87	199.29	15.616								
8,700.00	7,258.00	13,558.00	7,081.26	51.09	175.40	-87.24	-760.37	17.01	3,148.27	2,949.80	198.47	15.863								
8,800.00	7,258.00	13,558.00	7,081.26	52.47	175.40	-87.24	-760.37	17.01	3,187.10	2,989.53	197.57	16.132								
8,900.00	7,258.00	13,558.00	7,081.26	53.99	175.40	-87.24	-760.37	17.01	3,228.55	3,031.96	196.59	16.422								
9,000.00	7,258.00	13,558.00	7,081.26	55.62	175.40	-87.24	-760.37	17.01	3,272.55	3,076.99	195.55	16.735								

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset 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	
5,300.00	5,071.82	13,682.00	7,228.58	25.53	176.01	179.53	-1,318.91	7.85	3,252.06	3,100.43	151.63	21.447		
5,400.00	5,161.59	13,682.00	7,228.58	26.29	176.01	179.53	-1,318.91	7.85	3,225.48	3,070.13	155.35	20.763		
5,500.00	5,251.37	13,682.00	7,228.58	27.05	176.01	179.53	-1,318.91	7.85	3,201.81	3,042.79	159.02	20.135		
5,600.00	5,341.15	13,682.00	7,228.58	27.81	176.01	179.53	-1,318.91	7.85	3,181.10	3,018.48	162.62	19.561		
5,700.00	5,430.92	13,682.00	7,228.58	28.58	176.01	179.53	-1,318.91	7.85	3,163.43	2,997.27	166.15	19.039		
5,800.00	5,520.70	13,682.00	7,228.58	29.35	176.01	179.53	-1,318.91	7.85	3,148.83	2,979.24	169.59	18.568		
5,900.00	5,610.48	13,682.00	7,228.58	30.12	176.01	179.53	-1,318.91	7.85	3,137.35	2,964.44	172.91	18.144		
6,000.00	5,700.25	13,682.00	7,228.58	30.90	176.01	179.53	-1,318.91	7.85	3,129.02	2,952.91	176.11	17.767		
6,100.00	5,790.03	13,682.00	7,228.58	31.67	176.01	179.53	-1,318.91	7.85	3,123.88	2,944.70	179.18	17.434		
6,200.00	5,879.81	13,682.00	7,228.58	32.45	176.01	179.53	-1,318.91	7.85	3,121.93	2,939.84	182.10	17.144		
6,210.78	5,889.49	13,682.00	7,228.58	32.54	176.01	179.53	-1,318.91	7.85	3,121.92	2,939.51	182.40	17.116 CC		
6,300.00	5,969.58	13,682.00	7,228.58	33.23	176.01	179.53	-1,318.91	7.85	3,123.19	2,938.34	184.85	16.895 ES		
6,400.00	6,059.36	13,682.00	7,228.58	34.01	176.01	179.53	-1,318.91	7.85	3,127.65	2,940.20	187.45	16.686		
6,500.00	6,149.13	13,682.00	7,228.58	34.79	176.01	179.53	-1,318.91	7.85	3,135.28	2,945.42	189.86	16.514		
6,600.00	6,238.91	13,682.00	7,228.58	35.58	176.01	179.53	-1,318.91	7.85	3,146.09	2,953.99	192.10	16.378		
6,700.00	6,328.69	13,682.00	7,228.58	36.36	176.01	179.53	-1,318.91	7.85	3,160.01	2,965.87	194.15	16.276		
6,800.00	6,418.46	13,682.00	7,228.58	37.15	176.01	179.53	-1,318.91	7.85	3,177.03	2,981.02	196.02	16.208		
6,900.00	6,508.24	13,682.00	7,228.58	37.94	176.01	179.53	-1,318.91	7.85	3,197.09	2,999.39	197.70	16.172		
7,000.00	6,598.02	13,682.00	7,228.58	38.73	176.01	179.53	-1,318.91	7.85	3,220.13	3,020.93	199.20	16.166 SF		
7,100.00	6,687.79	13,682.00	7,228.58	39.52	176.01	179.53	-1,318.91	7.85	3,246.09	3,045.57	200.51	16.189		
7,156.65	6,738.65	13,682.00	7,228.58	39.96	176.01	179.53	-1,318.91	7.85	3,262.06	3,060.88	201.18	16.214		
7,200.00	6,777.55	13,682.00	7,228.58	40.31	176.01	-170.34	-1,318.91	7.85	3,274.86	3,073.20	201.66	16.240		

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 11-10-5H
<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 11-10-5H	<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 JEFFERS 2-1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,850.00	7,223.14	7,255.14	7,255.14	44.55	145.54	61.64	4,255.17	-2,845.24	3,280.42	3,098.67	181.75	18.049		
7,900.00	7,237.54	7,269.54	7,269.54	44.80	145.83	69.54	4,255.17	-2,845.24	3,240.04	3,058.31	181.74	17.828		
7,950.00	7,248.18	7,280.18	7,280.18	45.04	146.05	76.82	4,255.17	-2,845.24	3,200.19	3,018.57	181.62	17.620		
8,000.00	7,254.98	7,286.98	7,286.98	45.28	146.18	83.28	4,255.17	-2,845.24	3,161.23	2,979.81	181.41	17.426		
8,050.00	7,257.88	7,289.88	7,289.88	45.51	146.24	88.80	4,255.17	-2,845.24	3,123.51	2,942.40	181.11	17.246		
8,062.16	7,258.00	7,290.00	7,290.00	45.57	146.24	90.00	4,255.17	-2,845.24	3,114.57	2,933.55	181.03	17.205		
8,100.00	7,258.00	7,290.00	7,290.00	45.75	146.24	90.00	4,255.17	-2,845.24	3,087.00	2,906.24	180.77	17.077		
8,200.00	7,258.00	7,290.00	7,290.00	46.30	146.24	90.00	4,255.17	-2,845.24	3,015.22	2,835.05	180.17	16.735		
8,300.00	7,258.00	7,290.00	7,290.00	46.98	146.24	90.00	4,255.17	-2,845.24	2,945.08	2,765.34	179.75	16.385		
8,400.00	7,258.00	7,290.00	7,290.00	47.79	146.24	90.00	4,255.17	-2,845.24	2,876.71	2,697.20	179.52	16.025		
8,500.00	7,258.00	7,290.00	7,290.00	48.75	146.24	90.00	4,255.17	-2,845.24	2,810.24	2,630.72	179.52	15.654		
8,600.00	7,258.00	7,290.00	7,290.00	49.84	146.24	90.00	4,255.17	-2,845.24	2,745.80	2,566.00	179.80	15.271		
8,700.00	7,258.00	7,290.00	7,290.00	51.09	146.24	90.00	4,255.17	-2,845.24	2,683.54	2,503.16	180.38	14.877		
8,800.00	7,258.00	7,290.00	7,290.00	52.47	146.24	90.00	4,255.17	-2,845.24	2,623.62	2,442.32	181.29	14.472		
8,900.00	7,258.00	7,290.00	7,290.00	53.99	146.24	90.00	4,255.17	-2,845.24	2,566.19	2,383.65	182.54	14.058		
9,000.00	7,258.00	7,290.00	7,290.00	55.62	146.24	90.00	4,255.17	-2,845.24	2,511.43	2,327.30	184.13	13.640		
9,100.00	7,258.00	7,290.00	7,290.00	57.37	146.24	90.00	4,255.17	-2,845.24	2,459.52	2,273.46	186.06	13.219		
9,200.00	7,258.00	7,290.00	7,290.00	59.21	146.24	90.00	4,255.17	-2,845.24	2,410.65	2,222.33	188.31	12.801		
9,300.00	7,258.00	7,290.00	7,290.00	61.14	146.24	90.00	4,255.17	-2,845.24	2,364.99	2,174.12	190.87	12.390		
9,400.00	7,258.00	7,290.00	7,290.00	63.14	146.24	90.00	4,255.17	-2,845.24	2,322.75	2,129.04	193.70	11.991		
9,500.00	7,258.00	7,290.00	7,290.00	65.21	146.24	90.00	4,255.17	-2,845.24	2,284.10	2,087.32	196.78	11.607		
9,600.00	7,258.00	7,290.00	7,290.00	67.33	146.24	90.00	4,255.17	-2,845.24	2,249.24	2,049.18	200.06	11.243		
9,700.00	7,258.00	7,290.00	7,290.00	69.51	146.24	90.00	4,255.17	-2,845.24	2,218.35	2,014.83	203.52	10.900		
9,800.00	7,258.00	7,290.00	7,290.00	71.73	146.24	90.00	4,255.17	-2,845.24	2,191.58	1,984.47	207.11	10.582		
9,900.00	7,258.00	7,290.00	7,290.00	74.00	146.24	90.00	4,255.17	-2,845.24	2,169.10	1,958.32	210.78	10.291		
10,000.00	7,258.00	7,290.00	7,290.00	76.30	146.24	90.00	4,255.17	-2,845.24	2,151.04	1,936.53	214.51	10.028		
10,100.00	7,258.00	7,290.00	7,290.00	78.63	146.24	90.00	4,255.17	-2,845.24	2,137.50	1,919.26	218.25	9.794		
10,200.00	7,258.00	7,290.00	7,290.00	80.99	146.24	90.00	4,255.17	-2,845.24	2,128.59	1,906.64	221.95	9.590		
10,300.00	7,258.00	7,290.00	7,290.00	83.37	146.24	90.00	4,255.17	-2,845.24	2,124.35	1,898.76	225.59	9.417		
10,340.16	7,258.00	7,290.00	7,290.00	84.33	146.24	90.00	4,255.17	-2,845.24	2,123.97	1,896.94	227.03	9.356 CC		
10,400.00	7,258.00	7,290.00	7,290.00	85.78	146.24	90.00	4,255.17	-2,845.24	2,124.81	1,895.68	229.13	9.273 ES		
10,500.00	7,258.00	7,290.00	7,290.00	88.21	146.24	90.00	4,255.17	-2,845.24	2,129.98	1,897.45	232.53	9.160		
10,600.00	7,258.00	7,290.00	7,290.00	90.65	146.24	90.00	4,255.17	-2,845.24	2,139.80	1,904.03	235.77	9.076		
10,700.00	7,258.00	7,290.00	7,290.00	93.12	146.24	90.00	4,255.17	-2,845.24	2,154.24	1,915.41	238.83	9.020		
10,800.00	7,258.00	7,290.00	7,290.00	95.59	146.24	90.00	4,255.17	-2,845.24	2,173.18	1,931.49	241.68	8.992		
10,900.00	7,258.00	7,290.00	7,290.00	98.09	146.24	90.00	4,255.17	-2,845.24	2,196.51	1,952.18	244.33	8.990 SF		
11,000.00	7,258.00	7,290.00	7,290.00	100.59	146.24	90.00	4,255.17	-2,845.24	2,224.10	1,977.34	246.76	9.013		
11,100.00	7,258.00	7,290.00	7,290.00	103.11	146.24	90.00	4,255.17	-2,845.24	2,255.79	2,006.82	248.97	9.061		
11,200.00	7,258.00	7,290.00	7,290.00	105.64	146.24	90.00	4,255.17	-2,845.24	2,291.41	2,040.45	250.96	9.131		
11,300.00	7,258.00	7,290.00	7,290.00	108.18	146.24	90.00	4,255.17	-2,845.24	2,330.78	2,078.04	252.74	9.222		
11,400.00	7,258.00	7,290.00	7,290.00	110.73	146.24	90.00	4,255.17	-2,845.24	2,373.71	2,119.39	254.32	9.334		
11,500.00	7,258.00	7,290.00	7,290.00	113.29	146.24	90.00	4,255.17	-2,845.24	2,420.01	2,164.31	255.71	9.464		
11,600.00	7,258.00	7,290.00	7,290.00	115.85	146.24	90.00	4,255.17	-2,845.24	2,469.50	2,212.59	256.92	9.612		
11,700.00	7,258.00	7,290.00	7,290.00	118.43	146.24	90.00	4,255.17	-2,845.24	2,521.98	2,264.03	257.96	9.777		
11,800.00	7,258.00	7,290.00	7,290.00	121.01	146.24	90.00	4,255.17	-2,845.24	2,577.28	2,318.43	258.84	9.957		
11,900.00	7,258.00	7,290.00	7,290.00	123.59	146.24	90.00	4,255.17	-2,845.24	2,635.21	2,375.62	259.59	10.151		
12,000.00	7,258.00	7,290.00	7,290.00	126.18	146.24	90.00	4,255.17	-2,845.24	2,695.61	2,435.39	260.22	10.359		
12,100.00	7,258.00	7,290.00	7,290.00	128.78	146.24	90.00	4,255.17	-2,845.24	2,758.31	2,497.58	260.73	10.579		
12,200.00	7,258.00	7,290.00	7,290.00	131.39	146.24	90.00	4,255.17	-2,845.24	2,823.16	2,562.03	261.13	10.811		
12,300.00	7,258.00	7,290.00	7,290.00	133.99	146.24	90.00	4,255.17	-2,845.24	2,890.02	2,628.57	261.45	11.054		
12,400.00	7,258.00	7,290.00	7,290.00	136.61	146.24	90.00	4,255.17	-2,845.24	2,958.74	2,697.06	261.69	11.306		
12,500.00	7,258.00	7,290.00	7,290.00	139.22	146.24	90.00	4,255.17	-2,845.24	3,029.21	2,767.36	261.85	11.568		

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 11-10-5H
<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 11-10-5H	<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 VERT JEFFERS 2-1 - 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
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)				
12,600.00	7,258.00	7,290.00	7,290.00	141.84	146.24	90.00	4,255.17	-2,845.24	3,101.31	2,839.35	261.95	11.839		
12,700.00	7,258.00	7,290.00	7,290.00	144.47	146.24	90.00	4,255.17	-2,845.24	3,174.91	2,912.91	262.00	12.118		
12,800.00	7,258.00	7,290.00	7,290.00	147.10	146.24	90.00	4,255.17	-2,845.24	3,249.93	2,987.92	262.01	12.404		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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 JEFFERS 2-2 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
8,300.00	7,258.00	7,257.00	7,257.00	46.98	145.58	90.00	2,900.12	-3,906.16	3,208.13	3,021.18	186.95	17.160		
8,400.00	7,258.00	7,257.00	7,257.00	47.79	145.58	90.00	2,900.12	-3,906.16	3,111.21	2,924.64	186.57	16.676		
8,500.00	7,258.00	7,257.00	7,257.00	48.75	145.58	90.00	2,900.12	-3,906.16	3,014.49	2,828.31	186.18	16.191		
8,600.00	7,258.00	7,257.00	7,257.00	49.84	145.58	90.00	2,900.12	-3,906.16	2,917.99	2,732.21	185.78	15.707		
8,700.00	7,258.00	7,257.00	7,257.00	51.09	145.58	90.00	2,900.12	-3,906.16	2,821.73	2,636.36	185.38	15.222		
8,800.00	7,258.00	7,257.00	7,257.00	52.47	145.58	90.00	2,900.12	-3,906.16	2,725.75	2,540.78	184.97	14.736		
8,900.00	7,258.00	7,257.00	7,257.00	53.99	145.58	90.00	2,900.12	-3,906.16	2,630.06	2,445.50	184.56	14.250		
9,000.00	7,258.00	7,257.00	7,257.00	55.62	145.58	90.00	2,900.12	-3,906.16	2,534.71	2,350.55	184.16	13.764		
9,100.00	7,258.00	7,257.00	7,257.00	57.37	145.58	90.00	2,900.12	-3,906.16	2,439.73	2,255.95	183.77	13.276		
9,200.00	7,258.00	7,257.00	7,257.00	59.21	145.58	90.00	2,900.12	-3,906.16	2,345.16	2,161.76	183.41	12.787		
9,300.00	7,258.00	7,257.00	7,257.00	61.14	145.58	90.00	2,900.12	-3,906.16	2,251.07	2,067.99	183.07	12.296		
9,400.00	7,258.00	7,257.00	7,257.00	63.14	145.58	90.00	2,900.12	-3,906.16	2,157.50	1,974.72	182.79	11.803		
9,500.00	7,258.00	7,257.00	7,257.00	65.21	145.58	90.00	2,900.12	-3,906.16	2,064.55	1,881.97	182.57	11.308		
9,600.00	7,258.00	7,257.00	7,257.00	67.33	145.58	90.00	2,900.12	-3,906.16	1,972.27	1,789.82	182.45	10.810		
9,700.00	7,258.00	7,257.00	7,257.00	69.51	145.58	90.00	2,900.12	-3,906.16	1,880.79	1,698.33	182.46	10.308		
9,800.00	7,258.00	7,257.00	7,257.00	71.73	145.58	90.00	2,900.12	-3,906.16	1,790.23	1,607.58	182.64	9.802		
9,900.00	7,258.00	7,257.00	7,257.00	74.00	145.58	90.00	2,900.12	-3,906.16	1,700.71	1,517.67	183.05	9.291		
10,000.00	7,258.00	7,257.00	7,257.00	76.30	145.58	90.00	2,900.12	-3,906.16	1,612.43	1,428.70	183.74	8.776		
10,100.00	7,258.00	7,257.00	7,257.00	78.63	145.58	90.00	2,900.12	-3,906.16	1,525.60	1,340.82	184.79	8.256		
10,200.00	7,258.00	7,257.00	7,257.00	80.99	145.58	90.00	2,900.12	-3,906.16	1,440.48	1,254.20	186.28	7.733		
10,300.00	7,258.00	7,257.00	7,257.00	83.37	145.58	90.00	2,900.12	-3,906.16	1,357.39	1,169.08	188.31	7.208		
10,400.00	7,258.00	7,257.00	7,257.00	85.78	145.58	90.00	2,900.12	-3,906.16	1,276.72	1,085.75	190.98	6.685		
10,500.00	7,258.00	7,257.00	7,257.00	88.21	145.58	90.00	2,900.12	-3,906.16	1,198.98	1,004.61	194.37	6.169		
10,600.00	7,258.00	7,257.00	7,257.00	90.65	145.58	90.00	2,900.12	-3,906.16	1,124.75	926.18	198.57	5.664		
10,700.00	7,258.00	7,257.00	7,257.00	93.12	145.58	90.00	2,900.12	-3,906.16	1,054.79	851.16	203.64	5.180		
10,800.00	7,258.00	7,257.00	7,257.00	95.59	145.58	90.00	2,900.12	-3,906.16	990.00	780.41	209.59	4.724		
10,900.00	7,258.00	7,257.00	7,257.00	98.09	145.58	90.00	2,900.12	-3,906.16	931.46	715.09	216.38	4.305		
11,000.00	7,258.00	7,257.00	7,257.00	100.59	145.58	90.00	2,900.12	-3,906.16	880.42	656.56	223.86	3.933		
11,100.00	7,258.00	7,257.00	7,257.00	103.11	145.58	90.00	2,900.12	-3,906.16	838.25	606.48	231.77	3.617		
11,200.00	7,258.00	7,257.00	7,257.00	105.64	145.58	90.00	2,900.12	-3,906.16	806.34	566.66	239.68	3.364		
11,300.00	7,258.00	7,257.00	7,257.00	108.18	145.58	90.00	2,900.12	-3,906.16	785.94	538.87	247.07	3.181		
11,400.00	7,258.00	7,257.00	7,257.00	110.73	145.58	90.00	2,900.12	-3,906.16	777.96	524.55	253.41	3.070		
11,412.40	7,258.00	7,257.00	7,257.00	111.05	145.58	90.00	2,900.12	-3,906.16	777.86	523.76	254.10	3.061 CC, ES		
11,500.00	7,258.00	7,257.00	7,257.00	113.29	145.58	90.00	2,900.12	-3,906.16	782.78	524.52	258.26	3.031 SF		
11,600.00	7,258.00	7,257.00	7,257.00	115.85	145.58	90.00	2,900.12	-3,906.16	800.16	538.75	261.41	3.061		
11,700.00	7,258.00	7,257.00	7,257.00	118.43	145.58	90.00	2,900.12	-3,906.16	829.33	566.40	262.92	3.154		
11,800.00	7,258.00	7,257.00	7,257.00	121.01	145.58	90.00	2,900.12	-3,906.16	869.08	606.05	263.03	3.304		
11,900.00	7,258.00	7,257.00	7,257.00	123.59	145.58	90.00	2,900.12	-3,906.16	918.05	655.99	262.07	3.503		
12,000.00	7,258.00	7,257.00	7,257.00	126.18	145.58	90.00	2,900.12	-3,906.16	974.86	714.48	260.38	3.744		
12,100.00	7,258.00	7,257.00	7,257.00	128.78	145.58	90.00	2,900.12	-3,906.16	1,038.20	779.97	258.24	4.020		
12,200.00	7,258.00	7,257.00	7,257.00	131.39	145.58	90.00	2,900.12	-3,906.16	1,106.97	851.10	255.87	4.326		
12,300.00	7,258.00	7,257.00	7,257.00	133.99	145.58	90.00	2,900.12	-3,906.16	1,180.21	926.79	253.43	4.657		
12,400.00	7,258.00	7,257.00	7,257.00	136.61	145.58	90.00	2,900.12	-3,906.16	1,257.15	1,006.14	251.00	5.008		
12,500.00	7,258.00	7,257.00	7,257.00	139.22	145.58	90.00	2,900.12	-3,906.16	1,337.14	1,088.47	248.67	5.377		
12,600.00	7,258.00	7,257.00	7,257.00	141.84	145.58	90.00	2,900.12	-3,906.16	1,419.67	1,173.22	246.45	5.761		
12,700.00	7,258.00	7,257.00	7,257.00	144.47	145.58	90.00	2,900.12	-3,906.16	1,504.32	1,259.96	244.36	6.156		
12,800.00	7,258.00	7,257.00	7,257.00	147.10	145.58	90.00	2,900.12	-3,906.16	1,590.76	1,348.35	242.41	6.562		
12,900.00	7,258.00	7,257.00	7,257.00	149.73	145.58	90.00	2,900.12	-3,906.16	1,678.70	1,438.10	240.60	6.977		
13,000.00	7,258.00	7,257.00	7,257.00	152.37	145.58	90.00	2,900.12	-3,906.16	1,767.92	1,529.00	238.92	7.400		
13,100.00	7,258.00	7,257.00	7,257.00	155.01	145.58	90.00	2,900.12	-3,906.16	1,858.24	1,620.88	237.36	7.829		
13,200.00	7,258.00	7,257.00	7,257.00	157.65	145.58	90.00	2,900.12	-3,906.16	1,949.51	1,713.59	235.92	8.263		
13,300.00	7,258.00	7,257.00	7,257.00	160.29	145.58	90.00	2,900.12	-3,906.16	2,041.59	1,807.01	234.58	8.703		

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

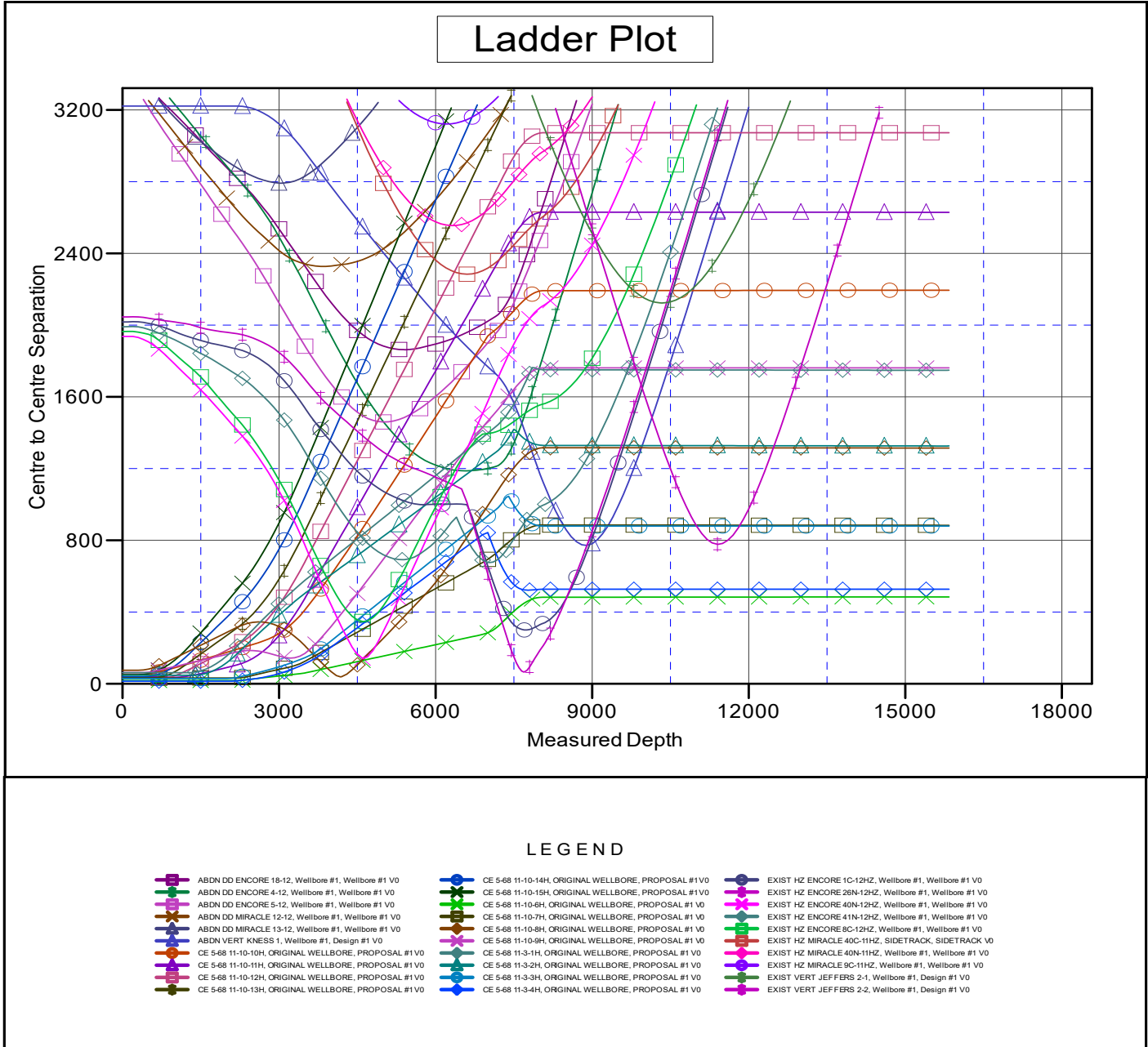
<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<b>Project:</b>	LARIMER COUNTY, COLORADO (NAD 83)	<b>TVD Reference:</b>	KBE @ 5000.00usft
<b>Reference Site:</b>	SEC. 11 T5N R68W 6th P.M.	<b>MD Reference:</b>	KBE @ 5000.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	CE 5-68 11-10-5H	<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 JEFFERS 2-2 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
13,400.00	7,258.00	7,257.00	7,257.00	162.94	145.58	90.00	2,900.12	-3,906.16	2,134.39	1,901.04	233.35	9.147		
13,500.00	7,258.00	7,257.00	7,257.00	165.59	145.58	90.00	2,900.12	-3,906.16	2,227.81	1,995.61	232.20	9.594		
13,600.00	7,258.00	7,257.00	7,257.00	168.24	145.58	90.00	2,900.12	-3,906.16	2,321.78	2,090.65	231.13	10.045		
13,700.00	7,258.00	7,257.00	7,257.00	170.89	145.58	90.00	2,900.12	-3,906.16	2,416.23	2,186.09	230.14	10.499		
13,800.00	7,258.00	7,257.00	7,257.00	173.55	145.58	90.00	2,900.12	-3,906.16	2,511.12	2,281.90	229.22	10.955		
13,900.00	7,258.00	7,257.00	7,257.00	176.21	145.58	90.00	2,900.12	-3,906.16	2,606.38	2,378.03	228.35	11.414		
14,000.00	7,258.00	7,257.00	7,257.00	178.87	145.58	90.00	2,900.12	-3,906.16	2,701.99	2,474.44	227.55	11.874		
14,100.00	7,258.00	7,257.00	7,257.00	181.53	145.58	90.00	2,900.12	-3,906.16	2,797.90	2,571.11	226.80	12.337		
14,200.00	7,258.00	7,257.00	7,257.00	184.19	145.58	90.00	2,900.12	-3,906.16	2,894.09	2,668.00	226.09	12.801		
14,300.00	7,258.00	7,257.00	7,257.00	186.86	145.58	90.00	2,900.12	-3,906.16	2,990.54	2,765.11	225.43	13.266		
14,400.00	7,258.00	7,257.00	7,257.00	189.53	145.58	90.00	2,900.12	-3,906.16	3,087.20	2,862.39	224.81	13.733		
14,500.00	7,258.00	7,257.00	7,257.00	192.20	145.58	90.00	2,900.12	-3,906.16	3,184.08	2,959.85	224.22	14.200		

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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 11-10-5H  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.35°

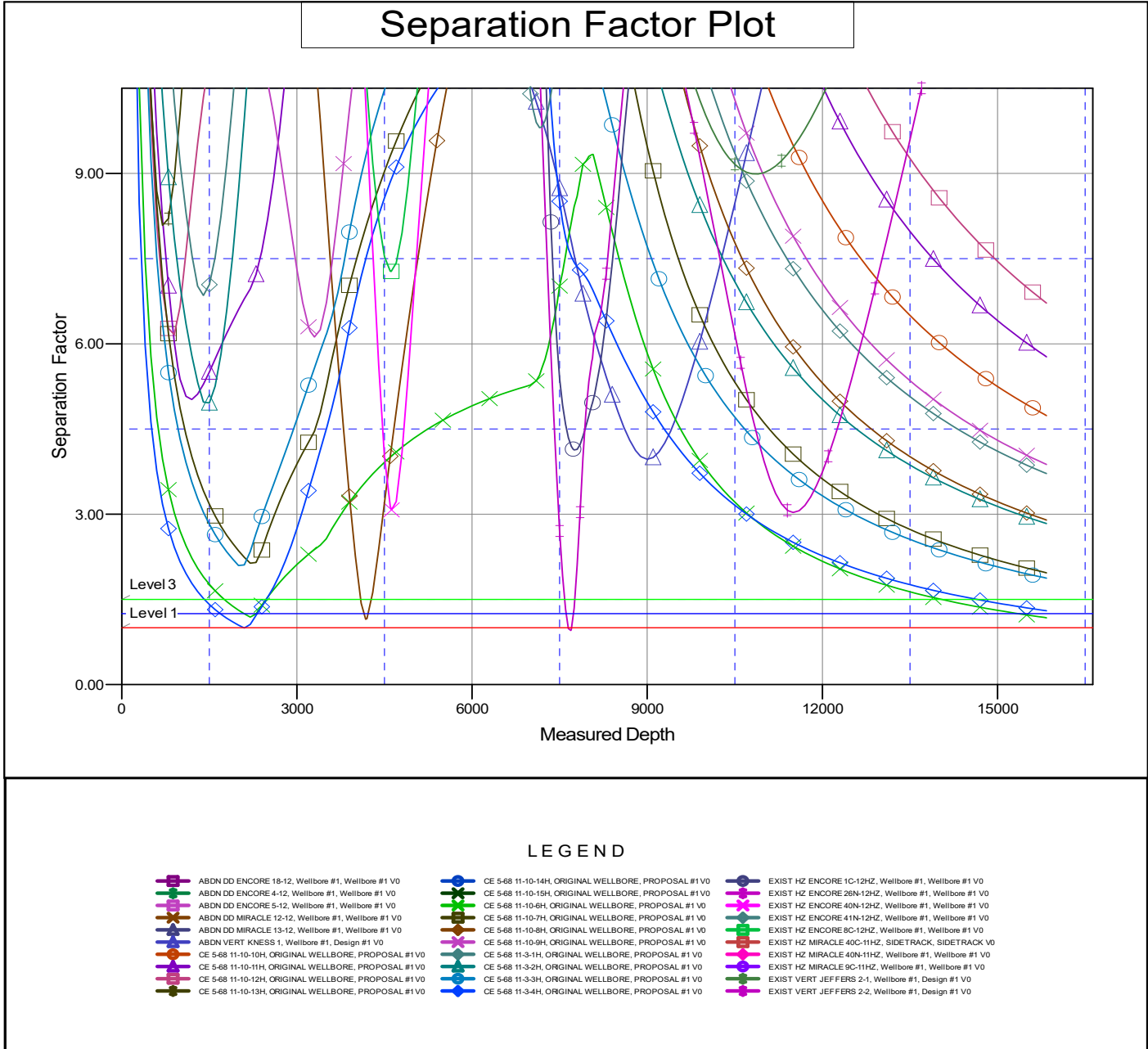


CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	BISON IV OPERATING	<b>Local Co-ordinate Reference:</b>	Well CE 5-68 11-10-5H
<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 11-10-5H	<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 11-10-5H  
 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