



## **Bison Oil & Gas II, LLC**

**Weld Co., CO (NAD-83)**

**Tatanka Pads**

**Tatanka Federal LD13-625**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**13 January, 2022**



## Plan #1



Project: Weld Co., CO (NAD-83)  
 Site: Tatanka Pads  
 Well: Tatanka Federal LD13-625  
 Wellbore: OH  
 Design: Plan #1  
 Lat: 40.749354  
 Long: -103.841815  
 GL: 4661.00  
 KB: KB=23' @ 4684.00usft

## WELL DETAILS: Tatanka Federal LD13-625

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1520130.18	3459414.94	40.749354	-103.841815

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Tatanka Federal LD13-625 PBHL	5587.00	-901.92	10734.84	1519429.15	3470164.77	Point
Tatanka Federal LD13-625 LP	5627.00	-963.64	553.62	1519177.06	3459986.48	Point

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	Build 1.75°/100'
1279.87	11.90	191.46	1275.00	-68.93	-13.98	1.75	191.46	-8.16	3700' Hold
4980.47	11.90	191.46	4896.09	-816.65	-165.60	0.00	0.00	-96.65	Build 8°/100'
6138.45	90.23	89.65	5627.00	-963.64	553.62	8.00	-101.52	632.35	10181' Hold
16319.94	90.23	89.65	5587.00	-901.92	10734.84	0.00	0.00	10772.66	TD at 16319.94

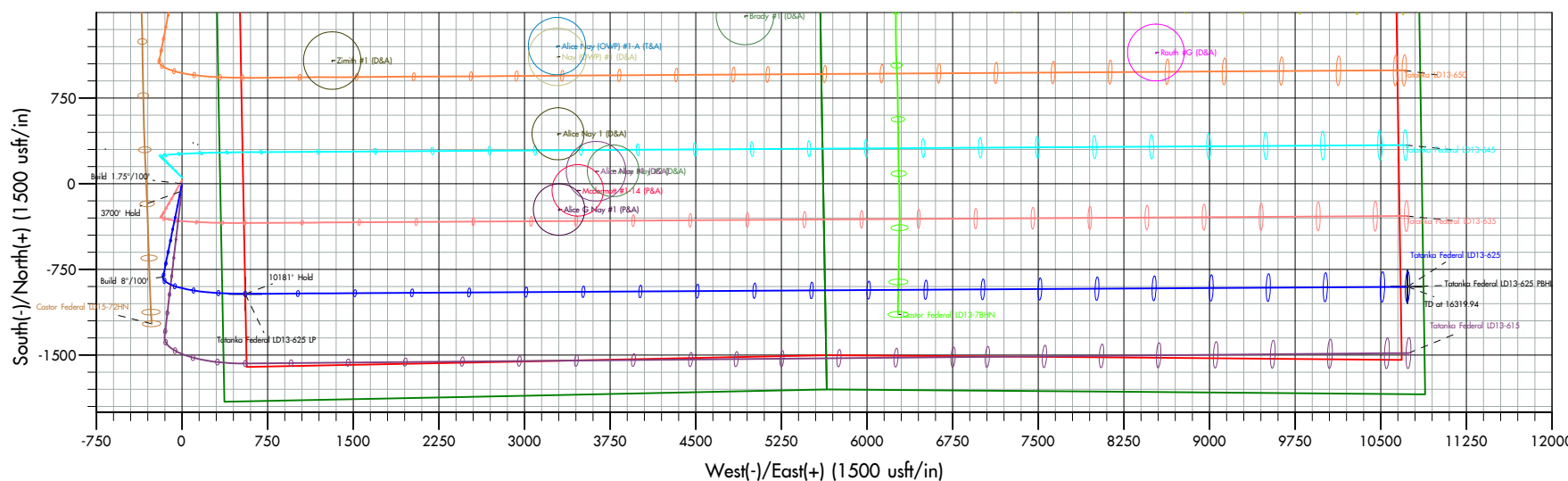
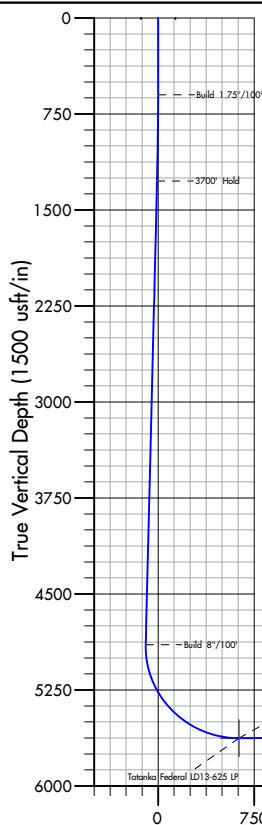
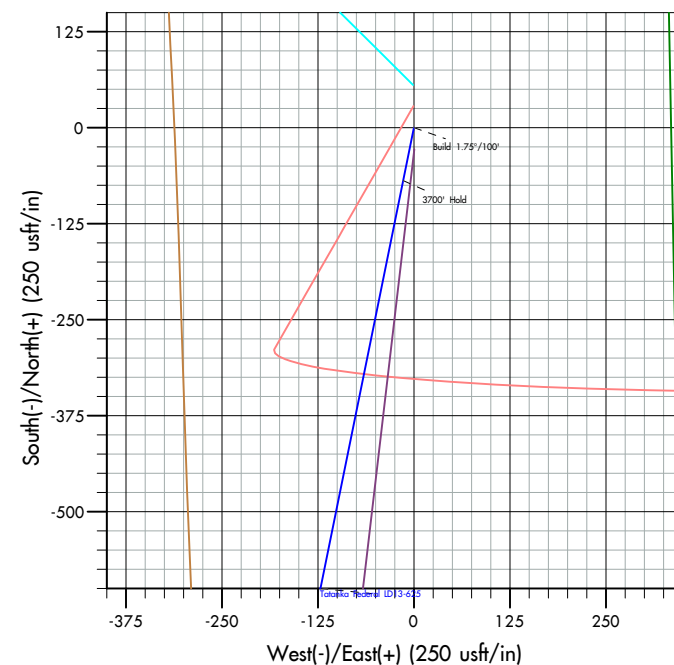
## FORMATION TOPS

TVDPath	MDPath	Formation
340.00	340.00	Pierre Shale (Base of Fox Hills)
3164.00	3210.35	Parkman
3661.00	3718.26	Sussex
4261.00	4331.43	Shannon
5354.00	5481.16	Sharon Springs
5434.00	5591.27	Sharon Springs Hot Marker
5454.00	5621.60	Niobrara A Chalk
5529.00	5752.43	Niobrara B Chalk
5615.00	6002.88	Niobrara C Chalk



Azimuths to True North  
 Magnetic North: 7.23°

Magnetic Field  
 Strength: 52151.4nT  
 Dip Angle: 66.97°  
 Date: 1/11/2022  
 Model: HDGM2022



Vertical Section at 94.80° (1500 usft/in)

Plan: Plan #1 (Tatanka Federal LD13-625/OH)

Created By: Dusty Moyer

Date: 11-24 January 13, 2022



# Altitude Energy Partners

## Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Company:</b>	Bison Oil & Gas II, LLC	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site:</b>	Tatanka Pads	<b>North Reference:</b>	True
<b>Well:</b>	Tatanka Federal LD13-625	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

<b>Project</b>	Weld Co., CO (NAD-83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		Tatanka Pads				
Site Position:		Northing:	1,522,139.55	usft	Latitude:	40.754872
From:	Lat/Long	Easting:	3,459,341.34	usft	Longitude:	-103.841945
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"

Well	Tatanka Federal LD13-625					
Well Position	+N/-S	0.00 usft	Northing:	1,520,130.18 usft	Latitude:	40.749354
	+E/-W	0.00 usft	Easting:	3,459,414.94 usft	Longitude:	-103.841815
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,661.00 usft
Grid Convergence:		1.07 °				

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2022	1/11/2022	7.23	66.97	52,151.40000000

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	94.80

<b>Plan Survey Tool Program</b>	<b>Date</b>	1/13/2022		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	16,319.94 Plan #1 (OH)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Mult	

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,279.87	11.90	191.46	1,275.00	-68.93	-13.98	1.75	1.75	0.00	191.46	
4,980.47	11.90	191.46	4,896.09	-816.65	-165.60	0.00	0.00	0.00	0.00	
6,138.45	90.23	89.65	5,627.00	-963.64	553.62	8.00	6.76	-8.79	-101.52	Tatanka Federal LD
16,319.94	90.23	89.65	5,587.00	-901.92	10,734.84	0.00	0.00	0.00	0.00	Tatanka Federal LD

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<b>Project:</b>	Weld Co., CO (NAD-83)	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site:</b>	Tatanka Pads	<b>North Reference:</b>	True
<b>Well:</b>	Tatanka Federal LD13-625	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
340.00	0.00	0.00	340.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Pierre Shale (Base of Fox Hills)</b>									
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Build 1.75°/100'</b>									
700.00	1.75	191.46	699.98	-1.50	-0.30	-0.18	1.75	1.75	0.00
800.00	3.50	191.46	799.88	-5.98	-1.21	-0.71	1.75	1.75	0.00
900.00	5.25	191.46	899.58	-13.46	-2.73	-1.59	1.75	1.75	0.00
1,000.00	7.00	191.46	999.01	-23.92	-4.85	-2.83	1.75	1.75	0.00
1,100.00	8.75	191.46	1,098.06	-37.34	-7.57	-4.42	1.75	1.75	0.00
1,200.00	10.50	191.46	1,196.65	-53.73	-10.90	-6.36	1.75	1.75	0.00
1,279.87	11.90	191.46	1,275.00	-68.93	-13.98	-8.16	1.75	1.75	0.00
<b>3700' Hold</b>									
1,300.00	11.90	191.46	1,294.69	-73.00	-14.80	-8.64	0.00	0.00	0.00
1,400.00	11.90	191.46	1,392.54	-93.21	-18.90	-11.03	0.00	0.00	0.00
1,500.00	11.90	191.46	1,490.40	-113.41	-23.00	-13.42	0.00	0.00	0.00
1,600.00	11.90	191.46	1,588.25	-133.62	-27.09	-15.81	0.00	0.00	0.00
1,700.00	11.90	191.46	1,686.10	-153.82	-31.19	-18.20	0.00	0.00	0.00
1,800.00	11.90	191.46	1,783.95	-174.03	-35.29	-20.60	0.00	0.00	0.00
1,900.00	11.90	191.46	1,881.80	-194.23	-39.39	-22.99	0.00	0.00	0.00
2,000.00	11.90	191.46	1,979.65	-214.44	-43.48	-25.38	0.00	0.00	0.00
2,100.00	11.90	191.46	2,077.51	-234.64	-47.58	-27.77	0.00	0.00	0.00
2,200.00	11.90	191.46	2,175.36	-254.85	-51.68	-30.16	0.00	0.00	0.00
2,300.00	11.90	191.46	2,273.21	-275.05	-55.78	-32.55	0.00	0.00	0.00
2,400.00	11.90	191.46	2,371.06	-295.26	-59.87	-34.94	0.00	0.00	0.00
2,500.00	11.90	191.46	2,468.91	-315.47	-63.97	-37.33	0.00	0.00	0.00
2,600.00	11.90	191.46	2,566.76	-335.67	-68.07	-39.73	0.00	0.00	0.00
2,700.00	11.90	191.46	2,664.62	-355.88	-72.16	-42.12	0.00	0.00	0.00
2,800.00	11.90	191.46	2,762.47	-376.08	-76.26	-44.51	0.00	0.00	0.00
2,900.00	11.90	191.46	2,860.32	-396.29	-80.36	-46.90	0.00	0.00	0.00
3,000.00	11.90	191.46	2,958.17	-416.49	-84.46	-49.29	0.00	0.00	0.00
3,100.00	11.90	191.46	3,056.02	-436.70	-88.55	-51.68	0.00	0.00	0.00
3,200.00	11.90	191.46	3,153.87	-456.90	-92.65	-54.07	0.00	0.00	0.00
3,210.35	11.90	191.46	3,164.00	-458.99	-93.08	-54.32	0.00	0.00	0.00
<b>Parkman</b>									
3,300.00	11.90	191.46	3,251.73	-477.11	-96.75	-56.46	0.00	0.00	0.00
3,400.00	11.90	191.46	3,349.58	-497.31	-100.85	-58.85	0.00	0.00	0.00
3,500.00	11.90	191.46	3,447.43	-517.52	-104.94	-61.25	0.00	0.00	0.00
3,600.00	11.90	191.46	3,545.28	-537.73	-109.04	-63.64	0.00	0.00	0.00
3,700.00	11.90	191.46	3,643.13	-557.93	-113.14	-66.03	0.00	0.00	0.00
3,718.26	11.90	191.46	3,661.00	-561.62	-113.89	-66.47	0.00	0.00	0.00
<b>Sussex</b>									
3,800.00	11.90	191.46	3,740.98	-578.14	-117.23	-68.42	0.00	0.00	0.00
3,900.00	11.90	191.46	3,838.84	-598.34	-121.33	-70.81	0.00	0.00	0.00
4,000.00	11.90	191.46	3,936.69	-618.55	-125.43	-73.20	0.00	0.00	0.00
4,100.00	11.90	191.46	4,034.54	-638.75	-129.53	-75.59	0.00	0.00	0.00
4,200.00	11.90	191.46	4,132.39	-658.96	-133.62	-77.98	0.00	0.00	0.00
4,300.00	11.90	191.46	4,230.24	-679.16	-137.72	-80.38	0.00	0.00	0.00

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<b>Site:</b>	Tatanka Pads	<b>North Reference:</b>	True
<b>Well:</b>	Tatanka Federal LD13-625	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,331.43	11.90	191.46	4,261.00	-685.51	-139.01	-81.13	0.00	0.00	0.00
<b>Shannon</b>									
4,400.00	11.90	191.46	4,328.09	-699.37	-141.82	-82.77	0.00	0.00	0.00
4,500.00	11.90	191.46	4,425.95	-719.57	-145.92	-85.16	0.00	0.00	0.00
4,600.00	11.90	191.46	4,523.80	-739.78	-150.01	-87.55	0.00	0.00	0.00
4,700.00	11.90	191.46	4,621.65	-759.99	-154.11	-89.94	0.00	0.00	0.00
4,800.00	11.90	191.46	4,719.50	-780.19	-158.21	-92.33	0.00	0.00	0.00
4,900.00	11.90	191.46	4,817.35	-800.40	-162.30	-94.72	0.00	0.00	0.00
4,980.47	11.90	191.46	4,896.09	-816.65	-165.60	-96.65	0.00	0.00	0.00
<b>Build 8°/100'</b>									
5,000.00	11.69	183.88	4,915.21	-820.60	-166.14	-96.85	8.00	-1.09	-38.81
5,050.00	12.07	164.44	4,964.16	-830.69	-165.08	-94.95	8.00	0.77	-38.88
5,100.00	13.65	147.85	5,012.92	-840.73	-160.53	-89.58	8.00	3.16	-33.19
5,150.00	16.08	135.40	5,061.26	-850.66	-152.53	-80.77	8.00	4.86	-24.90
5,200.00	19.03	126.42	5,108.93	-860.43	-141.10	-68.57	8.00	5.91	-17.95
5,250.00	22.31	119.88	5,155.72	-870.00	-126.31	-53.02	8.00	6.55	-13.07
5,300.00	25.78	114.98	5,201.38	-879.32	-108.22	-34.22	8.00	6.94	-9.80
5,350.00	29.37	111.20	5,245.69	-888.35	-86.92	-12.24	8.00	7.19	-7.58
5,400.00	33.06	108.18	5,288.45	-897.05	-62.52	12.80	8.00	7.36	-6.04
5,450.00	36.80	105.71	5,329.44	-905.36	-35.14	40.78	8.00	7.48	-4.94
5,481.16	39.15	104.37	5,354.00	-910.33	-16.62	59.65	8.00	7.56	-4.27
<b>Sharon Springs</b>									
5,500.00	40.58	103.63	5,368.46	-913.25	-4.91	71.57	8.00	7.59	-3.93
5,550.00	44.40	101.86	5,405.32	-920.68	28.03	105.01	8.00	7.63	-3.55
5,591.27	47.57	100.57	5,434.00	-926.44	57.14	134.51	8.00	7.68	-3.13
<b>Sharon Springs Hot Marker</b>									
5,600.00	48.24	100.31	5,439.85	-927.61	63.51	140.95	8.00	7.70	-2.94
5,621.60	49.90	99.70	5,454.00	-930.45	79.58	157.20	8.00	7.71	-2.83
<b>Niobrara A Chalk</b>									
5,650.00	52.10	98.94	5,471.87	-934.02	101.36	179.20	8.00	7.72	-2.68
5,700.00	55.97	97.71	5,501.23	-939.86	141.39	219.59	8.00	7.75	-2.47
5,750.00	59.86	96.58	5,527.78	-945.12	183.42	261.90	8.00	7.77	-2.25
5,752.43	60.05	96.53	5,529.00	-945.36	185.51	264.00	8.00	7.78	-2.16
<b>Niobrara B Chalk</b>									
5,800.00	63.75	95.54	5,551.41	-949.76	227.23	305.95	8.00	7.79	-2.08
5,850.00	67.65	94.56	5,571.98	-953.77	272.62	351.51	8.00	7.80	-1.95
5,900.00	71.56	93.64	5,589.40	-957.12	319.35	398.36	8.00	7.81	-1.84
5,950.00	75.47	92.76	5,603.59	-959.79	367.21	446.28	8.00	7.82	-1.76
6,000.00	79.38	91.92	5,614.47	-961.78	415.96	495.02	8.00	7.83	-1.70
6,002.88	79.61	91.87	5,615.00	-961.88	418.79	497.85	8.00	7.83	-1.67
<b>Niobrara C Chalk</b>									
6,050.00	83.30	91.09	5,622.00	-963.08	465.36	544.36	8.00	7.83	-1.65
6,100.00	87.21	90.27	5,626.14	-963.67	515.18	594.05	8.00	7.83	-1.63
6,138.45	90.23	89.65	5,627.00	-963.64	553.62	632.35	8.00	7.83	-1.62
<b>10181' Hold</b>									
6,200.00	90.23	89.65	5,626.76	-963.27	615.16	693.65	0.00	0.00	0.00
6,300.00	90.23	89.65	5,626.37	-962.66	715.16	793.25	0.00	0.00	0.00
6,400.00	90.23	89.65	5,625.97	-962.06	815.16	892.84	0.00	0.00	0.00
6,500.00	90.23	89.65	5,625.58	-961.45	915.16	992.44	0.00	0.00	0.00
6,600.00	90.23	89.65	5,625.19	-960.84	1,015.15	1,092.03	0.00	0.00	0.00
6,700.00	90.23	89.65	5,624.79	-960.24	1,115.15	1,191.63	0.00	0.00	0.00
6,800.00	90.23	89.65	5,624.40	-959.63	1,215.15	1,291.22	0.00	0.00	0.00
6,900.00	90.23	89.65	5,624.01	-959.03	1,315.14	1,390.82	0.00	0.00	0.00

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<b>Project:</b>	Weld Co., CO (NAD-83)	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site:</b>	Tatanka Pads	<b>North Reference:</b>	True
<b>Well:</b>	Tatanka Federal LD13-625	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,000.00	90.23	89.65	5,623.62	-958.42	1,415.14	1,490.42	0.00	0.00	0.00
7,100.00	90.23	89.65	5,623.22	-957.81	1,515.14	1,590.01	0.00	0.00	0.00
7,200.00	90.23	89.65	5,622.83	-957.21	1,615.14	1,689.61	0.00	0.00	0.00
7,300.00	90.23	89.65	5,622.44	-956.60	1,715.13	1,789.20	0.00	0.00	0.00
7,400.00	90.23	89.65	5,622.04	-955.99	1,815.13	1,888.80	0.00	0.00	0.00
7,500.00	90.23	89.65	5,621.65	-955.39	1,915.13	1,988.39	0.00	0.00	0.00
7,600.00	90.23	89.65	5,621.26	-954.78	2,015.13	2,087.99	0.00	0.00	0.00
7,700.00	90.23	89.65	5,620.87	-954.18	2,115.12	2,187.58	0.00	0.00	0.00
7,800.00	90.23	89.65	5,620.47	-953.57	2,215.12	2,287.18	0.00	0.00	0.00
7,900.00	90.23	89.65	5,620.08	-952.96	2,315.12	2,386.78	0.00	0.00	0.00
8,000.00	90.23	89.65	5,619.69	-952.36	2,415.12	2,486.37	0.00	0.00	0.00
8,100.00	90.23	89.65	5,619.29	-951.75	2,515.11	2,585.97	0.00	0.00	0.00
8,200.00	90.23	89.65	5,618.90	-951.14	2,615.11	2,685.56	0.00	0.00	0.00
8,300.00	90.23	89.65	5,618.51	-950.54	2,715.11	2,785.16	0.00	0.00	0.00
8,400.00	90.23	89.65	5,618.12	-949.93	2,815.11	2,884.75	0.00	0.00	0.00
8,500.00	90.23	89.65	5,617.72	-949.33	2,915.10	2,984.35	0.00	0.00	0.00
8,600.00	90.23	89.65	5,617.33	-948.72	3,015.10	3,083.94	0.00	0.00	0.00
8,700.00	90.23	89.65	5,616.94	-948.11	3,115.10	3,183.54	0.00	0.00	0.00
8,800.00	90.23	89.65	5,616.54	-947.51	3,215.10	3,283.14	0.00	0.00	0.00
8,900.00	90.23	89.65	5,616.15	-946.90	3,315.09	3,382.73	0.00	0.00	0.00
9,000.00	90.23	89.65	5,615.76	-946.29	3,415.09	3,482.33	0.00	0.00	0.00
9,100.00	90.23	89.65	5,615.37	-945.69	3,515.09	3,581.92	0.00	0.00	0.00
9,200.00	90.23	89.65	5,614.97	-945.08	3,615.08	3,681.52	0.00	0.00	0.00
9,300.00	90.23	89.65	5,614.58	-944.48	3,715.08	3,781.11	0.00	0.00	0.00
9,400.00	90.23	89.65	5,614.19	-943.87	3,815.08	3,880.71	0.00	0.00	0.00
9,500.00	90.23	89.65	5,613.79	-943.26	3,915.08	3,980.30	0.00	0.00	0.00
9,600.00	90.23	89.65	5,613.40	-942.66	4,015.07	4,079.90	0.00	0.00	0.00
9,700.00	90.23	89.65	5,613.01	-942.05	4,115.07	4,179.50	0.00	0.00	0.00
9,800.00	90.23	89.65	5,612.62	-941.44	4,215.07	4,279.09	0.00	0.00	0.00
9,900.00	90.23	89.65	5,612.22	-940.84	4,315.07	4,378.69	0.00	0.00	0.00
10,000.00	90.23	89.65	5,611.83	-940.23	4,415.06	4,478.28	0.00	0.00	0.00
10,100.00	90.23	89.65	5,611.44	-939.63	4,515.06	4,577.88	0.00	0.00	0.00
10,200.00	90.23	89.65	5,611.04	-939.02	4,615.06	4,677.47	0.00	0.00	0.00
10,300.00	90.23	89.65	5,610.65	-938.41	4,715.06	4,777.07	0.00	0.00	0.00
10,400.00	90.23	89.65	5,610.26	-937.81	4,815.05	4,876.66	0.00	0.00	0.00
10,500.00	90.23	89.65	5,609.86	-937.20	4,915.05	4,976.26	0.00	0.00	0.00
10,600.00	90.23	89.65	5,609.47	-936.59	5,015.05	5,075.86	0.00	0.00	0.00
10,700.00	90.23	89.65	5,609.08	-935.99	5,115.05	5,175.45	0.00	0.00	0.00
10,800.00	90.23	89.65	5,608.69	-935.38	5,215.04	5,275.05	0.00	0.00	0.00
10,900.00	90.23	89.65	5,608.29	-934.78	5,315.04	5,374.64	0.00	0.00	0.00
11,000.00	90.23	89.65	5,607.90	-934.17	5,415.04	5,474.24	0.00	0.00	0.00
11,100.00	90.23	89.65	5,607.51	-933.56	5,515.04	5,573.83	0.00	0.00	0.00
11,200.00	90.23	89.65	5,607.11	-932.96	5,615.03	5,673.43	0.00	0.00	0.00
11,300.00	90.23	89.65	5,606.72	-932.35	5,715.03	5,773.02	0.00	0.00	0.00
11,400.00	90.23	89.65	5,606.33	-931.74	5,815.03	5,872.62	0.00	0.00	0.00
11,500.00	90.23	89.65	5,605.94	-931.14	5,915.02	5,972.22	0.00	0.00	0.00
11,600.00	90.23	89.65	5,605.54	-930.53	6,015.02	6,071.81	0.00	0.00	0.00
11,700.00	90.23	89.65	5,605.15	-929.93	6,115.02	6,171.41	0.00	0.00	0.00
11,800.00	90.23	89.65	5,604.76	-929.32	6,215.02	6,271.00	0.00	0.00	0.00
11,900.00	90.23	89.65	5,604.36	-928.71	6,315.01	6,370.60	0.00	0.00	0.00
12,000.00	90.23	89.65	5,603.97	-928.11	6,415.01	6,470.19	0.00	0.00	0.00
12,100.00	90.23	89.65	5,603.58	-927.50	6,515.01	6,569.79	0.00	0.00	0.00
12,200.00	90.23	89.65	5,603.19	-926.89	6,615.01	6,669.38	0.00	0.00	0.00
12,300.00	90.23	89.65	5,602.79	-926.29	6,715.00	6,768.98	0.00	0.00	0.00



# Altitude Energy Partners Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Company:</b>	Bison Oil & Gas II, LLC	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site:</b>	Tatanka Pads	<b>North Reference:</b>	True
<b>Well:</b>	Tatanka Federal LD13-625	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,400.00	90.23	89.65	5,602.40	-925.68	6,815.00	6,868.58	0.00	0.00	0.00	
12,500.00	90.23	89.65	5,602.01	-925.08	6,915.00	6,968.17	0.00	0.00	0.00	
12,600.00	90.23	89.65	5,601.61	-924.47	7,015.00	7,067.77	0.00	0.00	0.00	
12,700.00	90.23	89.65	5,601.22	-923.86	7,114.99	7,167.36	0.00	0.00	0.00	
12,800.00	90.23	89.65	5,600.83	-923.26	7,214.99	7,266.96	0.00	0.00	0.00	
12,900.00	90.23	89.65	5,600.44	-922.65	7,314.99	7,366.55	0.00	0.00	0.00	
13,000.00	90.23	89.65	5,600.04	-922.04	7,414.99	7,466.15	0.00	0.00	0.00	
13,100.00	90.23	89.65	5,599.65	-921.44	7,514.98	7,565.74	0.00	0.00	0.00	
13,200.00	90.23	89.65	5,599.26	-920.83	7,614.98	7,665.34	0.00	0.00	0.00	
13,300.00	90.23	89.65	5,598.86	-920.23	7,714.98	7,764.94	0.00	0.00	0.00	
13,400.00	90.23	89.65	5,598.47	-919.62	7,814.98	7,864.53	0.00	0.00	0.00	
13,500.00	90.23	89.65	5,598.08	-919.01	7,914.97	7,964.13	0.00	0.00	0.00	
13,600.00	90.23	89.65	5,597.69	-918.41	8,014.97	8,063.72	0.00	0.00	0.00	
13,700.00	90.23	89.65	5,597.29	-917.80	8,114.97	8,163.32	0.00	0.00	0.00	
13,800.00	90.23	89.65	5,596.90	-917.19	8,214.96	8,262.91	0.00	0.00	0.00	
13,900.00	90.23	89.65	5,596.51	-916.59	8,314.96	8,362.51	0.00	0.00	0.00	
14,000.00	90.23	89.65	5,596.11	-915.98	8,414.96	8,462.10	0.00	0.00	0.00	
14,100.00	90.23	89.65	5,595.72	-915.38	8,514.96	8,561.70	0.00	0.00	0.00	
14,200.00	90.23	89.65	5,595.33	-914.77	8,614.95	8,661.30	0.00	0.00	0.00	
14,300.00	90.23	89.65	5,594.94	-914.16	8,714.95	8,760.89	0.00	0.00	0.00	
14,400.00	90.23	89.65	5,594.54	-913.56	8,814.95	8,860.49	0.00	0.00	0.00	
14,500.00	90.23	89.65	5,594.15	-912.95	8,914.95	8,960.08	0.00	0.00	0.00	
14,600.00	90.23	89.65	5,593.76	-912.34	9,014.94	9,059.68	0.00	0.00	0.00	
14,700.00	90.23	89.65	5,593.36	-911.74	9,114.94	9,159.27	0.00	0.00	0.00	
14,800.00	90.23	89.65	5,592.97	-911.13	9,214.94	9,258.87	0.00	0.00	0.00	
14,900.00	90.23	89.65	5,592.58	-910.53	9,314.94	9,358.46	0.00	0.00	0.00	
15,000.00	90.23	89.65	5,592.19	-909.92	9,414.93	9,458.06	0.00	0.00	0.00	
15,100.00	90.23	89.65	5,591.79	-909.31	9,514.93	9,557.66	0.00	0.00	0.00	
15,200.00	90.23	89.65	5,591.40	-908.71	9,614.93	9,657.25	0.00	0.00	0.00	
15,300.00	90.23	89.65	5,591.01	-908.10	9,714.93	9,756.85	0.00	0.00	0.00	
15,400.00	90.23	89.65	5,590.61	-907.49	9,814.92	9,856.44	0.00	0.00	0.00	
15,500.00	90.23	89.65	5,590.22	-906.89	9,914.92	9,956.04	0.00	0.00	0.00	
15,600.00	90.23	89.65	5,589.83	-906.28	10,014.92	10,055.63	0.00	0.00	0.00	
15,700.00	90.23	89.65	5,589.44	-905.68	10,114.92	10,155.23	0.00	0.00	0.00	
15,800.00	90.23	89.65	5,589.04	-905.07	10,214.91	10,254.82	0.00	0.00	0.00	
15,900.00	90.23	89.65	5,588.65	-904.46	10,314.91	10,354.42	0.00	0.00	0.00	
16,000.00	90.23	89.65	5,588.26	-903.86	10,414.91	10,454.02	0.00	0.00	0.00	
16,100.00	90.23	89.65	5,587.86	-903.25	10,514.90	10,553.61	0.00	0.00	0.00	
16,200.00	90.23	89.65	5,587.47	-902.64	10,614.90	10,653.21	0.00	0.00	0.00	
16,300.00	90.23	89.65	5,587.08	-902.04	10,714.90	10,752.80	0.00	0.00	0.00	
16,319.94	90.23	89.65	5,587.00	-901.92	10,734.84	10,772.66	0.00	0.00	0.00	
TD at 16319.94										



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Company:</b>	Bison Oil & Gas II, LLC	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site:</b>	Tatanka Pads	<b>North Reference:</b>	True
<b>Well:</b>	Tatanka Federal LD13-625	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

#### Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Tatanka Federal LD13 - plan hits target center - Point	0.00	0.00	5,587.00	-901.92	10,734.84	1,519,429.15	3,470,164.76	40.746872	-103.803073
Tatanka Federal LD13 - plan hits target center - Point	0.00	0.00	5,627.00	-963.64	553.62	1,519,177.06	3,459,986.48	40.746709	-103.839817

#### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
340.00	340.00	Pierre Shale (Base of Fox Hills)			
3,210.35	3,164.00	Parkman			
3,718.26	3,661.00	Sussex			
4,331.43	4,261.00	Shannon			
5,481.16	5,354.00	Sharon Springs			
5,591.27	5,434.00	Sharon Springs Hot Marker			
5,621.60	5,454.00	Niobrara A Chalk			
5,752.43	5,529.00	Niobrara B Chalk			
6,002.88	5,615.00	Niobrara C Chalk			

#### Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.00	600.00	0.00	0.00	Build 1.75°/100'
1,279.87	1,275.00	-68.93	-13.98	3700' Hold
4,980.47	4,896.09	-816.65	-165.60	Build 8°/100'
6,138.45	5,627.00	-963.64	553.62	10181' Hold
16,319.94	5,587.00	-901.92	10,734.84	TD at 16319.94





## **Bison Oil & Gas II, LLC**

**Weld Co., CO (NAD-83)**

**Tatanka Pads**

**Tatanka Federal LD13-625**

**OH**

**Plan #1**

## **Anticollision Report**

**13 January, 2022**





# Altitude Energy Partners

## Anticollision Report



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.00usft or Max. SF of 10	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	1/13/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	16,319.94	Plan #1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
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
Tatanka Offsets						
Alice G Nay #1 (P&A) - OH - OH	8,892.05	5,569.18	721.66	451.24	2.669	CC
Alice G Nay #1 (P&A) - OH - OH	8,900.00	5,569.15	721.71	451.24	2.668	ES, SF
Alice Nay #1 (2) (D&A) - OH - OH	8,900.00	5,599.15	2,714.88	2,443.21	9.993	CC, ES
Alice Nay #1 (2) (D&A) - OH - OH	9,100.00	5,598.37	2,724.39	2,450.97	9.964	SF
Alice Nay #1 (D&A) - OH - OH	9,218.21	5,574.90	1,054.92	780.66	3.846	CC, ES, SF
Alice Nay #2 (D&A) - OH - OH	9,367.85	5,570.31	1,057.68	781.92	3.836	CC, ES
Alice Nay #2 (D&A) - OH - OH	9,400.00	5,570.19	1,058.17	782.19	3.834	SF
Alice Nay (OWP) #1-A (T&A) - OH - OH	8,882.80	5,592.22	2,152.11	1,880.87	7.934	CC
Alice Nay (OWP) #1-A (T&A) - OH - OH	8,900.00	5,592.15	2,152.18	1,880.78	7.930	ES
Alice Nay (OWP) #1-A (T&A) - OH - OH	9,000.00	5,591.76	2,155.30	1,883.04	7.916	SF
Alice Nay 1 (D&A) - OH - OH	8,887.67	5,579.20	1,384.78	1,114.01	5.114	CC
Alice Nay 1 (D&A) - OH - OH	8,900.00	5,579.15	1,384.83	1,113.96	5.112	ES, SF
Brady #1 (D&A) - OH - OH	10,531.18	5,605.74	2,406.17	2,115.61	8.281	CC, ES
Brady #1 (D&A) - OH - OH	10,700.00	5,605.08	2,412.09	2,119.98	8.258	SF
Castor Federal LD13-78HN - OH - OH	11,900.00	9,670.62	65.57	-39.96	0.621	No-Go Zone - Stop Drillin
Castor Federal LD14-68HN - OH - OH						Out of range
Castor Federal LD15-72HN - OH - OH	5,500.00	9,555.58	347.39	271.65	4.586	CC
Castor Federal LD15-72HN - OH - OH	5,500.09	9,555.60	347.39	271.64	4.586	ES
Castor Federal LD15-72HN - OH - OH	5,550.00	9,563.92	354.19	273.70	4.400	SF
Mcdermott #1-14 (P&A) - OH - OH	9,056.52	5,568.54	888.28	616.08	3.263	CC, ES, SF
Nay (OWP) #1 (D&A) - OH - OH	8,883.35	5,741.22	2,058.84	1,781.63	7.427	CC
Nay (OWP) #1 (D&A) - OH - OH	8,900.00	5,741.15	2,058.90	1,781.54	7.423	ES
Nay (OWP) #1 (D&A) - OH - OH	9,000.00	5,740.76	2,062.14	1,783.93	7.412	SF
Rauth #G (D&A) - OH - OH	14,128.58	5,536.61	2,064.73	1,733.65	6.236	CC, ES
Rauth #G (D&A) - OH - OH	14,200.00	5,536.33	2,065.97	1,734.21	6.227	SF
Zimith #1 (D&A) - OH - OH	600.00	576.00	1,701.72	1,675.80	65.655	CC
Zimith #1 (D&A) - OH - OH	800.00	775.88	1,706.45	1,671.94	49.446	ES
Zimith #1 (D&A) - OH - OH	7,000.00	5,599.62	2,039.65	1,786.53	8.058	SF

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #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
<b>Offset Well - Wellbore - Design</b>						
Tatanka Pads						
Tatanka Federal LD13-615 - OH - Plan #1	500.00	500.00	28.06	22.86	5.396	CC, ES
Tatanka Federal LD13-615 - OH - Plan #1	16,319.94	16,385.42	582.76	307.52	2.117	SF
Tatanka Federal LD13-635 - OH - Plan #1	600.00	600.00	28.06	22.30	4.873	CC, ES
Tatanka Federal LD13-635 - OH - Plan #1	16,319.94	16,173.23	622.86	353.10	2.309	SF
Tatanka Federal LD13-645 - OH - Plan #1	500.00	500.00	55.75	50.55	10.721	CC, ES
Tatanka Federal LD13-645 - OH - Plan #1	16,319.94	16,123.37	1,245.37	974.38	4.596	SF
Tatanka LD13-650 - OH - Plan #1	4,807.05	5,218.27	1,838.97	1,794.69	41.533	CC
Tatanka LD13-650 - OH - Plan #1	16,319.94	16,276.52	1,896.70	1,624.43	6.966	ES, SF
Tatanka LD13-660 - OH - Plan #1	883.63	1,067.82	1,949.42	1,941.50	246.085	CC
Tatanka LD13-660 - OH - Plan #1	900.00	1,084.18	1,949.46	1,941.44	243.000	ES
Tatanka LD13-660 - OH - Plan #1	16,319.94	16,203.62	2,518.08	2,246.72	9.279	SF
Tatanka LD13-670 - OH - Plan #1	508.85	527.85	1,982.65	1,977.35	373.894	CC
Tatanka LD13-670 - OH - Plan #1	600.00	614.18	1,982.67	1,976.88	341.949	ES
Tatanka LD13-670 - OH - Plan #1	800.00	763.21	1,991.67	1,984.79	289.160	SF
Tatanka LD13-685 - OH - Plan #1						Out of range

### Offset Design: Tatanka Offsets - Alice G Nay #1 (P&A) - OH - OH

Survey Program: 5650-Unknown													Offset Site Error: 0.00 usft	
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		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	
6,700.00	5,624.79	5,577.79	5,577.79	27.21	223.11	-90.68	-225.30	3,302.77	2,307.77	2,068.54	239.23	9.647		
6,800.00	5,624.40	5,577.40	5,577.40	27.90	223.10	-90.65	-225.30	3,302.77	2,213.01	1,973.37	239.63	9.235		
6,900.00	5,624.01	5,577.01	5,577.01	28.63	223.08	-90.62	-225.30	3,302.77	2,118.72	1,878.64	240.08	8.825		
7,000.00	5,623.62	5,576.62	5,576.62	29.39	223.06	-90.59	-225.30	3,302.77	2,024.99	1,784.40	240.59	8.417		
7,100.00	5,623.22	5,576.22	5,576.22	30.19	223.05	-90.56	-225.30	3,302.77	1,931.89	1,690.73	241.16	8.011		
7,200.00	5,622.83	5,575.83	5,575.83	31.01	223.03	-90.53	-225.30	3,302.77	1,839.50	1,597.70	241.80	7.607		
7,300.00	5,622.44	5,575.44	5,575.44	31.86	223.02	-90.50	-225.30	3,302.77	1,747.96	1,505.43	242.54	7.207		
7,400.00	5,622.04	5,575.04	5,575.04	32.73	223.00	-90.47	-225.30	3,302.77	1,657.40	1,414.03	243.37	6.810		
7,500.00	5,621.65	5,574.65	5,574.65	33.63	222.99	-90.43	-225.30	3,302.77	1,567.98	1,323.67	244.31	6.418		
7,600.00	5,621.26	5,574.26	5,574.26	34.55	222.97	-90.40	-225.30	3,302.77	1,479.92	1,234.54	245.38	6.031		
7,700.00	5,620.87	5,573.87	5,573.87	35.49	222.95	-90.37	-225.30	3,302.77	1,393.47	1,146.88	246.59	5.651		
7,800.00	5,620.47	5,573.47	5,573.47	36.45	222.94	-90.34	-225.30	3,302.77	1,308.95	1,060.98	247.97	5.279		
7,900.00	5,620.08	5,573.08	5,573.08	37.43	222.92	-90.31	-225.30	3,302.77	1,226.76	977.23	249.53	4.916		
8,000.00	5,619.69	5,572.69	5,572.69	38.42	222.91	-90.28	-225.30	3,302.77	1,147.40	896.11	251.30	4.566		
8,100.00	5,619.29	5,572.29	5,572.29	39.42	222.89	-90.25	-225.30	3,302.77	1,071.51	818.23	253.28	4.231		
8,200.00	5,618.90	5,571.90	5,571.90	40.44	222.88	-90.22	-225.30	3,302.77	999.86	744.38	255.48	3.914		
8,300.00	5,618.51	5,571.51	5,571.51	41.47	222.86	-90.18	-225.30	3,302.77	933.44	675.55	257.89	3.620		
8,400.00	5,618.12	5,571.12	5,571.12	42.51	222.84	-90.15	-225.30	3,302.77	873.44	612.99	260.45	3.354		
8,500.00	5,617.72	5,570.72	5,570.72	43.57	222.83	-90.12	-225.30	3,302.77	821.28	558.20	263.07	3.122		
8,600.00	5,617.33	5,570.33	5,570.33	44.63	222.81	-90.09	-225.30	3,302.77	778.52	512.91	265.60	2.931		
8,700.00	5,616.94	5,569.94	5,569.94	45.70	222.80	-90.06	-225.30	3,302.77	746.78	478.95	267.83	2.788		
8,800.00	5,616.54	5,569.54	5,569.54	46.79	222.78	-90.03	-225.30	3,302.77	727.51	457.99	269.52	2.699		
8,892.05	5,616.18	5,569.18	5,569.18	47.79	222.77	-90.00	-225.30	3,302.77	721.66	451.24	270.42	2.669	CC	
8,900.00	5,616.15	5,569.15	5,569.15	47.87	222.77	-90.00	-225.30	3,302.77	721.71	451.24	270.47	2.668	ES, SF	
9,000.00	5,615.76	5,568.76	5,568.76	48.97	222.75	-89.97	-225.30	3,302.77	729.69	459.11	270.58	2.697		
9,100.00	5,615.37	5,568.37	5,568.37	50.08	222.73	-89.94	-225.30	3,302.77	751.03	481.11	269.91	2.782		
9,200.00	5,614.97	5,567.97	5,567.97	51.19	222.72	-89.90	-225.30	3,302.77	784.62	516.00	268.62	2.921		
9,300.00	5,614.58	5,567.58	5,567.58	52.30	222.70	-89.87	-225.30	3,302.77	828.99	562.08	266.91	3.106		

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



# Altitude Energy Partners

## Anticollision Report



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Tatanka Offsets - Alice G Nay #1 (P&A) - OH - OH												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 5650-Unknown												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Rule Assigned:</b>		<b>Distance</b>		<b>Minimum</b>		<b>Separation</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</b>	<b>Offset</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Separation (usft)</b>	<b>Factor</b>
9,400.00	5,614.19	5,567.19	5,567.19	53.43	222.69	-89.84	-225.30	3,302.77	882.50	617.52	264.98	3.330	
9,500.00	5,613.79	5,566.79	5,566.79	54.55	222.67	-89.81	-225.30	3,302.77	943.61	680.61	263.00	3.588	
9,600.00	5,613.40	5,566.40	5,566.40	55.69	222.66	-89.78	-225.30	3,302.77	1,010.93	749.87	261.06	3.872	
9,700.00	5,613.01	5,566.01	5,566.01	56.83	222.64	-89.75	-225.30	3,302.77	1,083.32	824.08	259.23	4.179	
9,800.00	5,612.62	5,565.62	5,565.62	57.97	222.62	-89.72	-225.30	3,302.77	1,159.81	902.27	257.54	4.503	
9,900.00	5,612.22	5,565.22	5,565.22	59.12	222.61	-89.69	-225.30	3,302.77	1,239.66	983.65	256.01	4.842	
10,000.00	5,611.83	5,564.83	5,564.83	60.27	222.59	-89.65	-225.30	3,302.77	1,322.25	1,067.63	254.62	5.193	
10,100.00	5,611.44	5,564.44	5,564.44	61.42	222.58	-89.62	-225.30	3,302.77	1,407.10	1,153.72	253.37	5.553	
10,200.00	5,611.04	5,564.04	5,564.04	62.58	222.56	-89.59	-225.30	3,302.77	1,493.82	1,241.57	252.25	5.922	
10,300.00	5,610.65	5,563.65	5,563.65	63.74	222.55	-89.56	-225.30	3,302.77	1,582.12	1,330.87	251.25	6.297	
10,400.00	5,610.26	5,563.26	5,563.26	64.91	222.53	-89.53	-225.30	3,302.77	1,671.73	1,421.38	250.35	6.677	
10,500.00	5,609.86	5,562.86	5,562.86	66.08	222.51	-89.50	-225.30	3,302.77	1,762.46	1,512.91	249.55	7.063	
10,600.00	5,609.47	5,562.47	5,562.47	67.25	222.50	-89.47	-225.30	3,302.77	1,854.15	1,605.32	248.83	7.452	
10,700.00	5,609.08	5,562.08	5,562.08	68.42	222.48	-89.44	-225.30	3,302.77	1,946.65	1,698.47	248.18	7.844	
10,800.00	5,608.69	5,561.69	5,561.69	69.60	222.47	-89.40	-225.30	3,302.77	2,039.86	1,792.27	247.59	8.239	
10,900.00	5,608.29	5,561.29	5,561.29	70.78	222.45	-89.37	-225.30	3,302.77	2,133.68	1,886.62	247.07	8.636	
11,000.00	5,607.90	5,560.90	5,560.90	71.96	222.44	-89.34	-225.30	3,302.77	2,228.05	1,981.46	246.59	9.035	
11,100.00	5,607.51	5,560.51	5,560.51	73.14	222.42	-89.31	-225.30	3,302.77	2,322.88	2,076.72	246.16	9.436	
11,200.00	5,607.11	5,560.11	5,560.11	74.33	222.40	-89.28	-225.30	3,302.77	2,418.13	2,172.36	245.77	9.839	



# Altitude Energy Partners

## Anticollision Report



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Offsets - Alice Nay #1 (2) (D&A) - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 6315-Unknown		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
8,900.00	5,616.15	5,599.15	5,599.15	47.87	223.97	-90.00	1,767.59	3,269.25	2,714.88	2,443.21	271.67	9.993	CC, ES	
9,000.00	5,615.76	5,598.76	5,598.76	48.97	223.95	-89.99	1,767.59	3,269.25	2,717.80	2,445.23	272.58	9.971		
9,100.00	5,615.37	5,598.37	5,598.37	50.08	223.93	-89.98	1,767.59	3,269.25	2,724.39	2,450.97	273.42	9.964	SF	
9,200.00	5,614.97	5,597.97	5,597.97	51.19	223.92	-89.97	1,767.59	3,269.25	2,734.63	2,460.42	274.21	9.973		
9,300.00	5,614.58	5,597.58	5,597.58	52.30	223.90	-89.96	1,767.59	3,269.25	2,748.47	2,473.53	274.94	9.997		

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Offsets - Alice Nay #1 (D&A) - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 6528-Unknown												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,100.00	5,623.22	5,583.22	5,583.22	30.19	223.33	-90.45	109.93	3,626.90	2,366.34	2,123.54	242.81	9.746	
7,200.00	5,622.83	5,582.83	5,582.83	31.01	223.31	-90.43	109.93	3,626.90	2,277.27	2,033.76	243.51	9.352	
7,300.00	5,622.44	5,582.44	5,582.44	31.86	223.30	-90.41	109.93	3,626.90	2,189.14	1,944.85	244.29	8.961	
7,400.00	5,622.04	5,582.04	5,582.04	32.73	223.28	-90.39	109.93	3,626.90	2,102.07	1,856.93	245.14	8.575	
7,500.00	5,621.65	5,581.65	5,581.65	33.63	223.27	-90.37	109.93	3,626.90	2,016.20	1,770.12	246.08	8.193	
7,600.00	5,621.26	5,581.26	5,581.26	34.55	223.25	-90.35	109.93	3,626.90	1,931.69	1,684.57	247.11	7.817	
7,700.00	5,620.87	5,580.87	5,580.87	35.49	223.23	-90.32	109.93	3,626.90	1,848.72	1,600.47	248.25	7.447	
7,800.00	5,620.47	5,580.47	5,580.47	36.45	223.22	-90.30	109.93	3,626.90	1,767.52	1,518.03	249.49	7.084	
7,900.00	5,620.08	5,580.08	5,580.08	37.43	223.20	-90.28	109.93	3,626.90	1,688.34	1,437.49	250.85	6.730	
8,000.00	5,619.69	5,579.69	5,579.69	38.42	223.19	-90.26	109.93	3,626.90	1,611.48	1,359.14	252.34	6.386	
8,100.00	5,619.29	5,579.29	5,579.29	39.42	223.17	-90.24	109.93	3,626.90	1,537.28	1,283.33	253.95	6.053	
8,200.00	5,618.90	5,578.90	5,578.90	40.44	223.16	-90.22	109.93	3,626.90	1,466.15	1,210.46	255.69	5.734	
8,300.00	5,618.51	5,578.51	5,578.51	41.47	223.14	-90.20	109.93	3,626.90	1,398.55	1,141.00	257.55	5.430	
8,400.00	5,618.12	5,578.12	5,578.12	42.51	223.12	-90.17	109.93	3,626.90	1,335.03	1,075.50	259.53	5.144	
8,500.00	5,617.72	5,577.72	5,577.72	43.57	223.11	-90.15	109.93	3,626.90	1,276.19	1,014.59	261.60	4.878	
8,600.00	5,617.33	5,577.33	5,577.33	44.63	223.09	-90.13	109.93	3,626.90	1,222.71	958.98	263.73	4.636	
8,700.00	5,616.94	5,576.94	5,576.94	45.70	223.08	-90.11	109.93	3,626.90	1,175.32	909.46	265.87	4.421	
8,800.00	5,616.54	5,576.54	5,576.54	46.79	223.06	-90.09	109.93	3,626.90	1,134.79	866.84	267.95	4.235	
8,900.00	5,616.15	5,576.15	5,576.15	47.87	223.05	-90.07	109.93	3,626.90	1,101.87	831.96	269.90	4.082	
9,000.00	5,615.76	5,575.76	5,575.76	48.97	223.03	-90.05	109.93	3,626.90	1,077.25	805.62	271.63	3.966	
9,100.00	5,615.37	5,575.37	5,575.37	50.08	223.01	-90.03	109.93	3,626.90	1,061.52	788.46	273.06	3.888	
9,200.00	5,614.97	5,574.97	5,574.97	51.19	223.00	-90.00	109.93	3,626.90	1,055.08	780.96	274.11	3.849	
9,218.21	5,614.90	5,574.90	5,574.90	51.39	223.00	-90.00	109.93	3,626.90	1,054.92	780.66	274.26	3.846 CC, ES, SF	
9,300.00	5,614.58	5,574.58	5,574.58	52.30	222.98	-89.98	109.93	3,626.90	1,058.08	783.34	274.74	3.851	
9,400.00	5,614.19	5,574.19	5,574.19	53.43	222.97	-89.96	109.93	3,626.90	1,070.47	795.52	274.95	3.893	
9,500.00	5,613.79	5,573.79	5,573.79	54.55	222.95	-89.94	109.93	3,626.90	1,091.91	817.16	274.75	3.974	
9,600.00	5,613.40	5,573.40	5,573.40	55.69	222.94	-89.92	109.93	3,626.90	1,121.88	847.69	274.19	4.092	
9,700.00	5,613.01	5,573.01	5,573.01	56.83	222.92	-89.90	109.93	3,626.90	1,159.73	886.38	273.35	4.243	
9,800.00	5,612.62	5,572.62	5,572.62	57.97	222.90	-89.88	109.93	3,626.90	1,204.71	932.42	272.29	4.424	
9,900.00	5,612.22	5,572.22	5,572.22	59.12	222.89	-89.85	109.93	3,626.90	1,256.06	984.97	271.09	4.633	
10,000.00	5,611.83	5,571.83	5,571.83	60.27	222.87	-89.83	109.93	3,626.90	1,313.03	1,043.22	269.80	4.867	
10,100.00	5,611.44	5,571.44	5,571.44	61.42	222.86	-89.81	109.93	3,626.90	1,374.92	1,106.44	268.48	5.121	
10,200.00	5,611.04	5,571.04	5,571.04	62.58	222.84	-89.79	109.93	3,626.90	1,441.09	1,173.93	267.16	5.394	
10,300.00	5,610.65	5,570.65	5,570.65	63.74	222.83	-89.77	109.93	3,626.90	1,511.00	1,245.13	265.87	5.683	
10,400.00	5,610.26	5,570.26	5,570.26	64.91	222.81	-89.75	109.93	3,626.90	1,584.13	1,319.51	264.62	5.986	
10,500.00	5,609.86	5,569.86	5,569.86	66.08	222.79	-89.73	109.93	3,626.90	1,660.07	1,396.64	263.43	6.302	
10,600.00	5,609.47	5,569.47	5,569.47	67.25	222.78	-89.71	109.93	3,626.90	1,738.44	1,476.14	262.30	6.628	
10,700.00	5,609.08	5,569.08	5,569.08	68.42	222.76	-89.68	109.93	3,626.90	1,818.94	1,557.69	261.24	6.963	
10,800.00	5,608.69	5,568.69	5,568.69	69.60	222.75	-89.66	109.93	3,626.90	1,901.28	1,641.03	260.25	7.306	
10,900.00	5,608.29	5,568.29	5,568.29	70.78	222.73	-89.64	109.93	3,626.90	1,985.25	1,725.93	259.32	7.656	
11,000.00	5,607.90	5,567.90	5,567.90	71.96	222.72	-89.62	109.93	3,626.90	2,070.65	1,812.19	258.46	8.012	
11,100.00	5,607.51	5,567.51	5,567.51	73.14	222.70	-89.60	109.93	3,626.90	2,157.30	1,899.65	257.65	8.373	
11,200.00	5,607.11	5,567.11	5,567.11	74.33	222.68	-89.58	109.93	3,626.90	2,245.06	1,988.16	256.90	8.739	
11,300.00	5,606.72	5,566.72	5,566.72	75.52	222.67	-89.56	109.93	3,626.90	2,333.80	2,077.61	256.20	9.109	
11,400.00	5,606.33	5,566.33	5,566.33	76.71	222.65	-89.53	109.93	3,626.90	2,423.43	2,167.88	255.55	9.483	
11,500.00	5,605.94	5,565.94	5,565.94	77.90	222.64	-89.51	109.93	3,626.90	2,513.83	2,258.89	254.94	9.860	

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Offsets - Alice Nay #2 (D&A) - OH - OH													Offset Site Error:	0.00 usft
Survey Program: Reference		5662-Unknown Offset							Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,200.00	5,622.83	5,578.83	5,578.83	31.01	223.15	-90.46	113.59	3,776.52	2,412.09	2,169.24	242.85	9.933		
7,300.00	5,622.44	5,578.44	5,578.44	31.86	223.14	-90.44	113.59	3,776.52	2,322.63	2,079.07	243.56	9.536		
7,400.00	5,622.04	5,578.04	5,578.04	32.73	223.12	-90.42	113.59	3,776.52	2,234.06	1,989.73	244.34	9.143		
7,500.00	5,621.65	5,577.65	5,577.65	33.63	223.11	-90.40	113.59	3,776.52	2,146.50	1,901.31	245.19	8.754		
7,600.00	5,621.26	5,577.26	5,577.26	34.55	223.09	-90.38	113.59	3,776.52	2,060.08	1,813.94	246.13	8.370		
7,700.00	5,620.87	5,576.87	5,576.87	35.49	223.07	-90.35	113.59	3,776.52	1,974.93	1,727.76	247.17	7.990		
7,800.00	5,620.47	5,576.47	5,576.47	36.45	223.06	-90.33	113.59	3,776.52	1,891.24	1,642.94	248.30	7.617		
7,900.00	5,620.08	5,576.08	5,576.08	37.43	223.04	-90.31	113.59	3,776.52	1,809.21	1,559.66	249.55	7.250		
8,000.00	5,619.69	5,575.69	5,575.69	38.42	223.03	-90.29	113.59	3,776.52	1,729.06	1,478.16	250.91	6.891		
8,100.00	5,619.29	5,575.29	5,575.29	39.42	223.01	-90.27	113.59	3,776.52	1,651.09	1,398.70	252.39	6.542		
8,200.00	5,618.90	5,574.90	5,574.90	40.44	223.00	-90.25	113.59	3,776.52	1,575.60	1,321.61	254.00	6.203		
8,300.00	5,618.51	5,574.51	5,574.51	41.47	222.98	-90.23	113.59	3,776.52	1,502.98	1,247.25	255.74	5.877		
8,400.00	5,618.12	5,574.12	5,574.12	42.51	222.96	-90.21	113.59	3,776.52	1,433.67	1,176.06	257.61	5.565		
8,500.00	5,617.72	5,573.72	5,573.72	43.57	222.95	-90.18	113.59	3,776.52	1,368.15	1,108.55	259.60	5.270		
8,600.00	5,617.33	5,573.33	5,573.33	44.63	222.93	-90.16	113.59	3,776.52	1,307.00	1,045.31	261.70	4.994		
8,700.00	5,616.94	5,572.94	5,572.94	45.70	222.92	-90.14	113.59	3,776.52	1,250.88	987.01	263.87	4.741		
8,800.00	5,616.54	5,572.54	5,572.54	46.79	222.90	-90.12	113.59	3,776.52	1,200.47	934.39	266.08	4.512		
8,900.00	5,616.15	5,572.15	5,572.15	47.87	222.89	-90.10	113.59	3,776.52	1,156.53	888.27	268.26	4.311		
9,000.00	5,615.76	5,571.76	5,571.76	48.97	222.87	-90.08	113.59	3,776.52	1,119.82	849.48	270.34	4.142		
9,100.00	5,615.37	5,571.37	5,571.37	50.08	222.85	-90.06	113.59	3,776.52	1,091.06	818.83	272.23	4.008		
9,200.00	5,614.97	5,570.97	5,570.97	51.19	222.84	-90.04	113.59	3,776.52	1,070.91	797.06	273.86	3.910		
9,300.00	5,614.58	5,570.58	5,570.58	52.30	222.82	-90.01	113.59	3,776.52	1,059.85	784.73	275.13	3.852		
9,367.85	5,614.31	5,570.31	5,570.31	53.07	222.81	-90.00	113.59	3,776.52	1,057.68	781.92	275.75	3.836 CC, ES		
9,400.00	5,614.19	5,570.19	5,570.19	53.43	222.81	-89.99	113.59	3,776.52	1,058.17	782.19	275.98	3.834 SF		
9,500.00	5,613.79	5,569.79	5,569.79	54.55	222.79	-89.97	113.59	3,776.52	1,065.90	789.51	276.39	3.856		
9,600.00	5,613.40	5,569.40	5,569.40	55.69	222.78	-89.95	113.59	3,776.52	1,082.85	806.48	276.37	3.918		
9,700.00	5,613.01	5,569.01	5,569.01	56.83	222.76	-89.93	113.59	3,776.52	1,108.60	832.65	275.96	4.017		
9,800.00	5,612.62	5,568.62	5,568.62	57.97	222.74	-89.91	113.59	3,776.52	1,142.56	867.35	275.21	4.152		
9,900.00	5,612.22	5,568.22	5,568.22	59.12	222.73	-89.89	113.59	3,776.52	1,184.00	909.80	274.20	4.318		
10,000.00	5,611.83	5,567.83	5,567.83	60.27	222.71	-89.87	113.59	3,776.52	1,232.19	959.17	273.02	4.513		
10,100.00	5,611.44	5,567.44	5,567.44	61.42	222.70	-89.84	113.59	3,776.52	1,286.36	1,014.65	271.71	4.734		
10,200.00	5,611.04	5,567.04	5,567.04	62.58	222.68	-89.82	113.59	3,776.52	1,345.79	1,075.44	270.35	4.978		
10,300.00	5,610.65	5,566.65	5,566.65	63.74	222.67	-89.80	113.59	3,776.52	1,409.81	1,140.85	268.97	5.242		
10,400.00	5,610.26	5,566.26	5,566.26	64.91	222.65	-89.78	113.59	3,776.52	1,477.84	1,210.24	267.60	5.523		
10,500.00	5,609.86	5,565.86	5,565.86	66.08	222.63	-89.76	113.59	3,776.52	1,549.33	1,283.06	266.28	5.818		
10,600.00	5,609.47	5,565.47	5,565.47	67.25	222.62	-89.74	113.59	3,776.52	1,623.84	1,358.83	265.01	6.128		
10,700.00	5,609.08	5,565.08	5,565.08	68.42	222.60	-89.72	113.59	3,776.52	1,700.97	1,437.17	263.80	6.448		
10,800.00	5,608.69	5,564.69	5,564.69	69.60	222.59	-89.70	113.59	3,776.52	1,780.37	1,517.71	262.66	6.778		
10,900.00	5,608.29	5,564.29	5,564.29	70.78	222.57	-89.67	113.59	3,776.52	1,861.76	1,600.16	261.59	7.117		
11,000.00	5,607.90	5,563.90	5,563.90	71.96	222.56	-89.65	113.59	3,776.52	1,944.88	1,684.29	260.59	7.463		
11,100.00	5,607.51	5,563.51	5,563.51	73.14	222.54	-89.63	113.59	3,776.52	2,029.53	1,769.87	259.65	7.816		
11,200.00	5,607.11	5,563.11	5,563.11	74.33	222.52	-89.61	113.59	3,776.52	2,115.52	1,856.74	258.78	8.175		
11,300.00	5,606.72	5,562.72	5,562.72	75.52	222.51	-89.59	113.59	3,776.52	2,202.69	1,944.72	257.97	8.539		
11,400.00	5,606.33	5,562.33	5,562.33	76.71	222.49	-89.57	113.59	3,776.52	2,290.91	2,033.70	257.21	8.907		
11,500.00	5,605.94	5,561.94	5,561.94	77.90	222.48	-89.55	113.59	3,776.52	2,380.06	2,123.55	256.51	9.279		
11,600.00	5,605.54	5,561.54	5,561.54	79.09	222.46	-89.52	113.59	3,776.52	2,470.04	2,214.19	255.85	9.654		



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Tatanka Offsets - Alice Nay (OWP) #1-A (T&A) - OH - OH												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 6277-Unknown												<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>Rule Assigned:</b>								
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference</b>	<b>Offset</b>	<b>Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
7,600.00	5,621.26	5,597.26	5,597.26	34.55	223.89	-90.13	1,205.06	3,284.84	2,505.42	2,249.76	255.66	9.800	
7,700.00	5,620.87	5,596.87	5,596.87	35.49	223.87	-90.12	1,205.06	3,284.84	2,455.72	2,198.82	256.90	9.559	
7,800.00	5,620.47	5,596.47	5,596.47	36.45	223.86	-90.11	1,205.06	3,284.84	2,409.15	2,150.98	258.17	9.332	
7,900.00	5,620.08	5,596.08	5,596.08	37.43	223.84	-90.10	1,205.06	3,284.84	2,365.89	2,106.43	259.46	9.119	
8,000.00	5,619.69	5,595.69	5,595.69	38.42	223.83	-90.09	1,205.06	3,284.84	2,326.13	2,065.37	260.76	8.920	
8,100.00	5,619.29	5,595.29	5,595.29	39.42	223.81	-90.08	1,205.06	3,284.84	2,290.05	2,027.97	262.08	8.738	
8,200.00	5,618.90	5,594.90	5,594.90	40.44	223.80	-90.07	1,205.06	3,284.84	2,257.83	1,994.44	263.38	8.572	
8,300.00	5,618.51	5,594.51	5,594.51	41.47	223.78	-90.06	1,205.06	3,284.84	2,229.62	1,964.95	264.67	8.424	
8,400.00	5,618.12	5,594.12	5,594.12	42.51	223.76	-90.05	1,205.06	3,284.84	2,205.60	1,939.67	265.93	8.294	
8,500.00	5,617.72	5,593.72	5,593.72	43.57	223.75	-90.04	1,205.06	3,284.84	2,185.89	1,918.74	267.15	8.182	
8,600.00	5,617.33	5,593.33	5,593.33	44.63	223.73	-90.03	1,205.06	3,284.84	2,170.61	1,902.29	268.32	8.090	
8,700.00	5,616.94	5,592.94	5,592.94	45.70	223.72	-90.02	1,205.06	3,284.84	2,159.86	1,890.44	269.42	8.017	
8,800.00	5,616.54	5,592.54	5,592.54	46.79	223.70	-90.01	1,205.06	3,284.84	2,153.70	1,883.25	270.45	7.963	
8,882.80	5,616.22	5,592.22	5,592.22	47.69	223.69	-90.00	1,205.06	3,284.84	2,152.11	1,880.87	271.24	7.934 CC	
8,900.00	5,616.15	5,592.15	5,592.15	47.87	223.69	-90.00	1,205.06	3,284.84	2,152.18	1,880.78	271.40	7.930 ES	
9,000.00	5,615.76	5,591.76	5,591.76	48.97	223.67	-89.99	1,205.06	3,284.84	2,155.30	1,883.04	272.26	7.916 SF	
9,100.00	5,615.37	5,591.37	5,591.37	50.08	223.65	-89.98	1,205.06	3,284.84	2,163.04	1,890.02	273.02	7.923	
9,200.00	5,614.97	5,590.97	5,590.97	51.19	223.64	-89.97	1,205.06	3,284.84	2,175.36	1,901.68	273.68	7.948	
9,300.00	5,614.58	5,590.58	5,590.58	52.30	223.62	-89.96	1,205.06	3,284.84	2,192.17	1,917.93	274.25	7.993	
9,400.00	5,614.19	5,590.19	5,590.19	53.43	223.61	-89.95	1,205.06	3,284.84	2,213.38	1,938.67	274.71	8.057	
9,500.00	5,613.79	5,589.79	5,589.79	54.55	223.59	-89.94	1,205.06	3,284.84	2,238.86	1,963.78	275.08	8.139	
9,600.00	5,613.40	5,589.40	5,589.40	55.69	223.58	-89.92	1,205.06	3,284.84	2,268.47	1,993.11	275.35	8.238	
9,700.00	5,613.01	5,589.01	5,589.01	56.83	223.56	-89.91	1,205.06	3,284.84	2,302.04	2,026.50	275.54	8.355	
9,800.00	5,612.62	5,588.62	5,588.62	57.97	223.54	-89.90	1,205.06	3,284.84	2,339.41	2,063.76	275.65	8.487	
9,900.00	5,612.22	5,588.22	5,588.22	59.12	223.53	-89.89	1,205.06	3,284.84	2,380.39	2,104.71	275.68	8.635	
10,000.00	5,611.83	5,587.83	5,587.83	60.27	223.51	-89.88	1,205.06	3,284.84	2,424.81	2,149.17	275.64	8.797	
10,100.00	5,611.44	5,587.44	5,587.44	61.42	223.50	-89.87	1,205.06	3,284.84	2,472.48	2,196.93	275.55	8.973	
10,200.00	5,611.04	5,587.04	5,587.04	62.58	223.48	-89.86	1,205.06	3,284.84	2,523.21	2,247.81	275.40	9.162	
10,300.00	5,610.65	5,586.65	5,586.65	63.74	223.47	-89.85	1,205.06	3,284.84	2,576.82	2,301.61	275.21	9.363	
10,400.00	5,610.26	5,586.26	5,586.26	64.91	223.45	-89.84	1,205.06	3,284.84	2,633.14	2,358.17	274.98	9.576	
10,500.00	5,609.86	5,585.86	5,585.86	66.08	223.43	-89.83	1,205.06	3,284.84	2,692.00	2,417.29	274.71	9.799	



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Offsets - Alice Nay 1 (D&A) - OH - OH											Offset Site Error:
											0.00 usft
Survey Program:	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:	Distance	Minimum	Separation	Warning	Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Reference Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	0.00 usft
6,900.00	5,624.01	5,587.01	28.63	223.48	-90.32	437.78	3,294.36	2,422.47	2,177.91	244.57	9.905
7,000.00	5,623.62	5,586.62	29.39	223.46	-90.31	437.78	3,294.36	2,341.12	2,095.73	245.39	9.540
7,100.00	5,623.22	5,586.22	30.19	223.45	-90.29	437.78	3,294.36	2,261.26	2,014.98	246.29	9.181
7,200.00	5,622.83	5,585.83	31.01	223.43	-90.27	437.78	3,294.36	2,183.07	1,935.81	247.26	8.829
7,300.00	5,622.44	5,585.44	31.86	223.42	-90.26	437.78	3,294.36	2,106.72	1,858.41	248.31	8.484
7,400.00	5,622.04	5,585.04	32.73	223.40	-90.24	437.78	3,294.36	2,032.42	1,782.97	249.45	8.148
7,500.00	5,621.65	5,584.65	33.63	223.39	-90.23	437.78	3,294.36	1,960.41	1,709.74	250.66	7.821
7,600.00	5,621.26	5,584.26	34.55	223.37	-90.21	437.78	3,294.36	1,890.95	1,638.98	251.97	7.505
7,700.00	5,620.87	5,583.87	35.49	223.35	-90.19	437.78	3,294.36	1,824.32	1,570.97	253.35	7.201
7,800.00	5,620.47	5,583.47	36.45	223.34	-90.18	437.78	3,294.36	1,760.86	1,506.04	254.82	6.910
7,900.00	5,620.08	5,583.08	37.43	223.32	-90.16	437.78	3,294.36	1,700.91	1,444.55	256.35	6.635
8,000.00	5,619.69	5,582.69	38.42	223.31	-90.14	437.78	3,294.36	1,644.86	1,386.91	257.95	6.377
8,100.00	5,619.29	5,582.29	39.42	223.29	-90.13	437.78	3,294.36	1,593.12	1,333.53	259.59	6.137
8,200.00	5,618.90	5,581.90	40.44	223.28	-90.11	437.78	3,294.36	1,546.12	1,284.87	261.25	5.918
8,300.00	5,618.51	5,581.51	41.47	223.26	-90.10	437.78	3,294.36	1,504.31	1,241.40	262.91	5.722
8,400.00	5,618.12	5,581.12	42.51	223.24	-90.08	437.78	3,294.36	1,468.14	1,203.60	264.54	5.550
8,500.00	5,617.72	5,580.72	43.57	223.23	-90.06	437.78	3,294.36	1,438.02	1,171.93	266.09	5.404
8,600.00	5,617.33	5,580.33	44.63	223.21	-90.05	437.78	3,294.36	1,414.34	1,146.80	267.54	5.286
8,700.00	5,616.94	5,579.94	45.70	223.20	-90.03	437.78	3,294.36	1,397.44	1,128.60	268.84	5.198
8,800.00	5,616.54	5,579.54	46.79	223.18	-90.01	437.78	3,294.36	1,387.55	1,117.59	269.96	5.140
8,887.67	5,616.20	5,579.20	47.74	223.17	-90.00	437.78	3,294.36	1,384.78	1,114.01	270.77	5.114 CC
8,900.00	5,616.15	5,579.15	47.87	223.17	-90.00	437.78	3,294.36	1,384.83	1,113.96	270.87	5.112 ES, SF
9,000.00	5,615.76	5,578.76	48.97	223.15	-89.98	437.78	3,294.36	1,389.33	1,117.76	271.56	5.116
9,100.00	5,615.37	5,578.37	50.08	223.13	-89.97	437.78	3,294.36	1,400.96	1,128.94	272.02	5.150
9,200.00	5,614.97	5,577.97	51.19	223.12	-89.95	437.78	3,294.36	1,419.57	1,147.32	272.25	5.214
9,300.00	5,614.58	5,577.58	52.30	223.10	-89.93	437.78	3,294.36	1,444.86	1,172.60	272.26	5.307
9,400.00	5,614.19	5,577.19	53.43	223.09	-89.92	437.78	3,294.36	1,476.52	1,204.43	272.08	5.427
9,500.00	5,613.79	5,576.79	54.55	223.07	-89.90	437.78	3,294.36	1,514.12	1,242.38	271.74	5.572
9,600.00	5,613.40	5,576.40	55.69	223.06	-89.88	437.78	3,294.36	1,557.25	1,285.99	271.26	5.741
9,700.00	5,613.01	5,576.01	56.83	223.04	-89.87	437.78	3,294.36	1,605.46	1,334.79	270.66	5.932
9,800.00	5,612.62	5,575.62	57.97	223.02	-89.85	437.78	3,294.36	1,658.30	1,388.31	269.99	6.142
9,900.00	5,612.22	5,575.22	59.12	223.01	-89.84	437.78	3,294.36	1,715.35	1,446.09	269.26	6.371
10,000.00	5,611.83	5,574.83	60.27	222.99	-89.82	437.78	3,294.36	1,776.20	1,507.71	268.49	6.616
10,100.00	5,611.44	5,574.44	61.42	222.98	-89.80	437.78	3,294.36	1,840.47	1,572.78	267.70	6.875
10,200.00	5,611.04	5,574.04	62.58	222.96	-89.79	437.78	3,294.36	1,907.83	1,640.93	266.90	7.148
10,300.00	5,610.65	5,573.65	63.74	222.95	-89.77	437.78	3,294.36	1,977.95	1,711.84	266.11	7.433
10,400.00	5,610.26	5,573.26	64.91	222.93	-89.75	437.78	3,294.36	2,050.54	1,785.22	265.33	7.728
10,500.00	5,609.86	5,572.86	66.08	222.91	-89.74	437.78	3,294.36	2,125.37	1,860.80	264.57	8.033
10,600.00	5,609.47	5,572.47	67.25	222.90	-89.72	437.78	3,294.36	2,202.19	1,938.36	263.83	8.347
10,700.00	5,609.08	5,572.08	68.42	222.88	-89.71	437.78	3,294.36	2,280.82	2,017.69	263.12	8.668
10,800.00	5,608.69	5,571.69	69.60	222.87	-89.69	437.78	3,294.36	2,361.05	2,098.61	262.44	8.996
10,900.00	5,608.29	5,571.29	70.78	222.85	-89.67	437.78	3,294.36	2,442.75	2,180.96	261.79	9.331
11,000.00	5,607.90	5,570.90	71.96	222.84	-89.66	437.78	3,294.36	2,525.77	2,264.60	261.17	9.671

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Offsets - Brady #1 (D&A) - OH - OH												Offset Site Error:	0.00 usft
Survey Program:		6302-Unknown										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)	Major Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,300.00	5,614.58	5,610.58	5,610.58	52.30	224.42	-90.12	1,469.12	4,931.64	2,702.86	2,430.00	272.86	9.906	
9,400.00	5,614.19	5,610.19	5,610.19	53.43	224.41	-90.11	1,469.12	4,931.64	2,658.80	2,384.32	274.48	9.687	
9,500.00	5,613.79	5,609.79	5,609.79	54.55	224.39	-90.10	1,469.12	4,931.64	2,617.82	2,341.72	276.10	9.482	
9,600.00	5,613.40	5,609.40	5,609.40	55.69	224.38	-90.09	1,469.12	4,931.64	2,580.07	2,302.36	277.71	9.291	
9,700.00	5,613.01	5,609.01	5,609.01	56.83	224.36	-90.08	1,469.12	4,931.64	2,545.69	2,266.38	279.31	9.114	
9,800.00	5,612.62	5,608.62	5,608.62	57.97	224.34	-90.07	1,469.12	4,931.64	2,514.81	2,233.93	280.88	8.953	
9,900.00	5,612.22	5,608.22	5,608.22	59.12	224.33	-90.06	1,469.12	4,931.64	2,487.58	2,205.16	282.41	8.808	
10,000.00	5,611.83	5,607.83	5,607.83	60.27	224.31	-90.05	1,469.12	4,931.64	2,464.10	2,180.20	283.90	8.679	
10,100.00	5,611.44	5,607.44	5,607.44	61.42	224.30	-90.04	1,469.12	4,931.64	2,444.50	2,159.17	285.33	8.567	
10,200.00	5,611.04	5,607.04	5,607.04	62.58	224.28	-90.03	1,469.12	4,931.64	2,428.86	2,142.17	286.69	8.472	
10,300.00	5,610.65	5,606.65	5,606.65	63.74	224.27	-90.02	1,469.12	4,931.64	2,417.25	2,129.28	287.97	8.394	
10,400.00	5,610.26	5,606.26	5,606.26	64.91	224.25	-90.01	1,469.12	4,931.64	2,409.75	2,120.59	289.16	8.334	
10,500.00	5,609.86	5,605.86	5,605.86	66.08	224.23	-90.00	1,469.12	4,931.64	2,406.37	2,116.13	290.25	8.291	
10,531.18	5,609.74	5,605.74	5,605.74	66.44	224.23	-90.00	1,469.12	4,931.64	2,406.17	2,115.61	290.57	8.281	CC, ES
10,600.00	5,609.47	5,605.47	5,605.47	67.25	224.22	-89.99	1,469.12	4,931.64	2,407.16	2,115.92	291.23	8.265	
10,700.00	5,609.08	5,605.08	5,605.08	68.42	224.20	-89.98	1,469.12	4,931.64	2,412.09	2,119.98	292.11	8.258	SF
10,800.00	5,608.69	5,604.69	5,604.69	69.60	224.19	-89.97	1,469.12	4,931.64	2,421.14	2,128.27	292.87	8.267	
10,900.00	5,608.29	5,604.29	5,604.29	70.78	224.17	-89.97	1,469.12	4,931.64	2,434.27	2,140.76	293.51	8.294	
11,000.00	5,607.90	5,603.90	5,603.90	71.96	224.16	-89.96	1,469.12	4,931.64	2,451.42	2,157.37	294.04	8.337	
11,100.00	5,607.51	5,603.51	5,603.51	73.14	224.14	-89.95	1,469.12	4,931.64	2,472.49	2,178.03	294.46	8.397	
11,200.00	5,607.11	5,603.11	5,603.11	74.33	224.12	-89.94	1,469.12	4,931.64	2,497.39	2,202.62	294.77	8.472	
11,300.00	5,606.72	5,602.72	5,602.72	75.52	224.11	-89.93	1,469.12	4,931.64	2,526.01	2,231.04	294.98	8.563	
11,400.00	5,606.33	5,602.33	5,602.33	76.71	224.09	-89.92	1,469.12	4,931.64	2,558.22	2,263.14	295.08	8.670	
11,500.00	5,605.94	5,601.94	5,601.94	77.90	224.08	-89.91	1,469.12	4,931.64	2,593.89	2,298.80	295.09	8.790	
11,600.00	5,605.54	5,601.54	5,601.54	79.09	224.06	-89.90	1,469.12	4,931.64	2,632.87	2,337.85	295.02	8.924	
11,700.00	5,605.15	5,601.15	5,601.15	80.29	224.05	-89.89	1,469.12	4,931.64	2,675.03	2,380.15	294.88	9.072	
11,800.00	5,604.76	5,600.76	5,600.76	81.48	224.03	-89.88	1,469.12	4,931.64	2,720.21	2,425.55	294.66	9.232	
11,900.00	5,604.36	5,600.36	5,600.36	82.68	224.01	-89.87	1,469.12	4,931.64	2,768.27	2,473.89	294.38	9.404	
12,000.00	5,603.97	5,599.97	5,599.97	83.88	224.00	-89.86	1,469.12	4,931.64	2,819.05	2,525.01	294.05	9.587	
12,100.00	5,603.58	5,599.58	5,599.58	85.08	223.98	-89.85	1,469.12	4,931.64	2,872.43	2,578.76	293.67	9.781	
12,200.00	5,603.19	5,599.19	5,599.19	86.29	223.97	-89.84	1,469.12	4,931.64	2,928.24	2,634.99	293.25	9.985	

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Offsets - Castor Federal LD13-78HN - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 275-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,900.00	5,612.22	9,728.33	5,520.15	59.12	85.53	46.71	-984.58	6,272.27	1,958.61	1,859.19	99.43	19.699	
10,000.00	5,611.83	9,726.48	5,520.18	60.27	85.50	45.76	-982.74	6,272.31	1,858.69	1,759.25	99.44	18.691	
10,100.00	5,611.44	9,724.56	5,520.22	61.42	85.47	44.74	-980.82	6,272.36	1,758.78	1,659.32	99.46	17.683	
10,200.00	5,611.04	9,722.56	5,520.26	62.58	85.43	43.64	-978.82	6,272.41	1,658.87	1,559.39	99.48	16.676	
10,300.00	5,610.65	9,720.48	5,520.29	63.74	85.39	42.44	-976.74	6,272.46	1,558.97	1,459.47	99.50	15.669	
10,400.00	5,610.26	9,718.31	5,520.34	64.91	85.36	41.14	-974.56	6,272.51	1,459.07	1,359.56	99.51	14.662	
10,500.00	5,609.86	9,698.00	5,520.78	66.08	84.99	26.06	-954.27	6,273.11	1,359.36	1,260.03	99.33	13.685	
10,600.00	5,609.47	9,698.00	5,520.78	67.25	84.99	26.06	-954.27	6,273.11	1,259.46	1,160.08	99.38	12.673	
10,700.00	5,609.08	9,698.00	5,520.78	68.42	84.99	26.06	-954.27	6,273.11	1,159.57	1,060.14	99.43	11.663	
10,800.00	5,608.69	9,698.00	5,520.78	69.60	84.99	26.06	-954.27	6,273.11	1,059.71	960.23	99.48	10.653	
10,900.00	5,608.29	9,698.00	5,520.78	70.78	84.99	26.06	-954.27	6,273.11	959.87	860.34	99.53	9.644	
11,000.00	5,607.90	9,705.64	5,520.59	71.96	85.13	32.38	-961.91	6,272.85	860.04	760.37	99.68	8.628	
11,100.00	5,607.51	9,700.91	5,520.71	73.14	85.05	28.57	-957.18	6,273.01	760.32	660.62	99.70	7.626	
11,200.00	5,607.11	9,696.43	5,520.82	74.33	84.97	24.66	-952.71	6,273.16	660.65	560.91	99.74	6.624	
11,300.00	5,606.72	9,692.18	5,520.92	75.52	84.89	20.69	-948.46	6,273.29	561.08	461.26	99.82	5.621	
11,400.00	5,606.33	9,688.14	5,521.01	76.71	84.82	16.70	-944.42	6,273.41	461.65	361.69	99.96	4.618	
11,500.00	5,605.94	9,684.29	5,521.08	77.90	84.75	12.72	-940.58	6,273.53	362.50	262.25	100.25	3.616	
11,600.00	5,605.54	9,680.63	5,521.15	79.09	84.69	8.80	-936.92	6,273.63	263.94	163.04	100.90	2.616	
11,700.00	5,605.15	9,677.14	5,521.21	80.29	84.63	4.97	-933.43	6,273.73	167.03	64.45	102.58	1.628	Collision Risk Procedures Req.
11,800.00	5,604.76	9,673.81	5,521.26	81.48	84.57	1.27	-930.10	6,273.82	78.17	-27.00	105.17	0.743	No-Go Zone - Stop Drilling
11,900.00	5,604.36	9,670.62	5,521.31	82.68	84.52	-2.29	-926.91	6,273.90	65.57	-39.96	105.53	0.621	No-Go Zone - Stop Drilling, CC, ES
12,000.00	5,603.97	9,667.58	5,521.35	83.88	84.46	-5.69	-923.87	6,273.98	149.90	44.85	105.05	1.427	Collision Avoidance Req.
12,100.00	5,603.58	9,664.66	5,521.39	85.08	84.41	-8.90	-920.95	6,274.05	246.21	143.59	102.62	2.399	
12,200.00	5,603.19	9,661.86	5,521.42	86.29	84.36	-11.94	-918.15	6,274.12	344.61	243.00	101.61	3.392	
12,300.00	5,602.79	9,659.18	5,521.45	87.49	84.32	-14.79	-915.47	6,274.19	443.70	342.58	101.12	4.388	
12,400.00	5,602.40	9,656.60	5,521.48	88.70	84.27	-17.47	-912.90	6,274.25	543.11	442.24	100.87	5.384	
12,500.00	5,602.01	9,654.13	5,521.50	89.90	84.23	-19.96	-910.42	6,274.30	642.70	541.97	100.73	6.380	
12,600.00	5,601.61	9,651.75	5,521.52	91.11	84.19	-22.30	-908.04	6,274.35	742.38	641.73	100.65	7.376	
12,700.00	5,601.22	9,649.46	5,521.53	92.32	84.15	-24.47	-905.76	6,274.40	842.14	741.52	100.62	8.370	
12,800.00	5,600.83	9,647.25	5,521.55	93.53	84.11	-26.49	-903.55	6,274.45	941.94	841.33	100.60	9.363	
12,900.00	5,600.44	9,645.13	5,521.56	94.74	84.07	-28.38	-901.43	6,274.49	1,041.77	941.16	100.61	10.355	
13,000.00	5,600.04	9,643.08	5,521.57	95.95	84.03	-30.14	-899.38	6,274.53	1,141.62	1,041.00	100.63	11.345	
13,100.00	5,599.65	9,641.10	5,521.58	97.16	84.00	-31.78	-897.40	6,274.57	1,241.50	1,140.85	100.65	12.334	
13,200.00	5,599.26	9,639.19	5,521.58	98.38	83.97	-33.30	-895.49	6,274.61	1,341.39	1,240.70	100.69	13.322	
13,300.00	5,598.86	9,637.35	5,521.59	99.59	83.93	-34.73	-893.65	6,274.64	1,441.29	1,340.56	100.73	14.309	
13,400.00	5,598.47	9,635.56	5,521.59	100.81	83.90	-36.07	-891.86	6,274.67	1,541.20	1,440.43	100.77	15.294	
13,500.00	5,598.08	9,633.84	5,521.59	102.02	83.87	-37.31	-890.14	6,274.71	1,641.12	1,540.30	100.82	16.277	
13,600.00	5,597.69	9,632.17	5,521.59	103.24	83.84	-38.48	-888.47	6,274.73	1,741.05	1,640.18	100.88	17.259	
13,700.00	5,597.29	9,630.55	5,521.59	104.46	83.82	-39.58	-886.85	6,274.76	1,840.98	1,740.05	100.93	18.240	
13,800.00	5,596.90	9,628.99	5,521.59	105.68	83.79	-40.61	-885.29	6,274.79	1,940.92	1,839.93	100.99	19.219	

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Offsets - Castor Federal LD15-72HN - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 350-MWD													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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,700.00	3,643.13	9,221.35	5,624.70	15.74	70.25	153.53	-586.51	-290.42	1,945.87	1,902.49	43.37	44.864	
3,800.00	3,740.98	9,234.64	5,624.57	16.20	70.48	153.09	-599.78	-289.92	1,847.80	1,804.13	43.67	42.313	
3,900.00	3,838.84	9,248.32	5,624.47	16.67	70.72	152.58	-613.46	-289.47	1,749.80	1,705.82	43.98	39.790	
4,000.00	3,936.69	9,262.43	5,624.41	17.13	70.97	152.01	-627.56	-289.06	1,651.87	1,607.58	44.29	37.293	
4,100.00	4,034.54	9,285.00	5,624.40	17.59	71.36	150.98	-650.13	-288.54	1,554.06	1,509.43	44.62	34.826	
4,200.00	4,132.39	9,294.69	5,624.41	18.06	71.53	150.49	-659.81	-288.33	1,456.27	1,411.30	44.97	32.385	
4,300.00	4,230.24	9,315.67	5,624.45	18.52	71.89	149.34	-680.79	-287.83	1,358.53	1,313.21	45.32	29.978	
4,400.00	4,328.09	9,336.61	5,624.49	18.99	72.26	148.04	-701.72	-287.22	1,260.81	1,215.13	45.68	27.603	
4,500.00	4,425.95	9,357.50	5,624.52	19.45	72.62	146.56	-722.60	-286.52	1,163.11	1,117.06	46.05	25.258	
4,600.00	4,523.80	9,378.35	5,624.56	19.92	72.99	144.87	-743.43	-285.73	1,065.45	1,019.01	46.44	22.945	
4,700.00	4,621.65	9,398.67	5,624.59	20.39	73.34	142.92	-763.74	-284.92	967.83	920.99	46.85	20.660	
4,800.00	4,719.50	9,418.93	5,624.62	20.85	73.69	140.61	-783.98	-284.15	870.29	823.00	47.29	18.404	
4,900.00	4,817.35	9,439.12	5,624.63	21.32	74.04	137.82	-804.16	-283.42	772.84	725.06	47.78	16.175	
4,980.47	4,896.09	9,455.34	5,624.64	21.69	74.33	135.15	-820.37	-282.87	694.53	646.30	48.23	14.401	
5,000.00	4,915.21	9,459.28	5,624.64	21.78	74.39	136.76	-824.30	-282.73	675.58	627.23	48.35	13.972	
5,050.00	4,964.16	9,469.42	5,624.64	21.99	74.57	143.86	-834.44	-282.40	627.56	578.79	48.76	12.869	
5,100.00	5,012.92	9,479.45	5,624.65	22.19	74.75	151.57	-844.47	-282.08	580.60	531.23	49.36	11.761	
5,150.00	5,061.26	9,489.40	5,624.65	22.36	74.92	157.50	-854.41	-281.77	535.24	484.99	50.25	10.651	
5,200.00	5,108.93	9,499.34	5,624.66	22.50	75.09	161.50	-864.34	-281.46	492.18	440.61	51.57	9.544	
5,250.00	5,155.72	9,509.19	5,624.67	22.61	75.26	164.10	-874.19	-281.15	452.30	398.79	53.51	8.453	
5,300.00	5,201.38	9,518.93	5,624.68	22.70	75.43	165.78	-883.92	-280.86	416.77	360.48	56.29	7.404	
5,350.00	5,245.69	9,528.49	5,624.70	22.77	75.60	166.85	-893.48	-280.57	386.98	326.90	60.08	6.441	
5,400.00	5,288.45	9,537.81	5,624.72	22.83	75.76	167.51	-902.80	-280.29	364.53	299.66	64.87	5.620	
5,450.00	5,329.44	9,546.86	5,624.74	22.88	75.91	167.88	-911.85	-280.03	350.95	280.65	70.30	4.992	
5,500.00	5,368.46	9,555.58	5,624.77	22.93	76.07	168.05	-920.56	-279.77	347.39	271.65	75.74	4.586 CC	
5,500.09	5,368.52	9,555.60	5,624.77	22.93	76.07	168.05	-920.57	-279.77	347.39	271.64	75.75	4.586 ES	
5,550.00	5,405.32	9,563.92	5,624.79	22.98	76.21	168.05	-928.90	-279.53	354.19	273.70	80.50	4.400 SF	
5,600.00	5,439.85	9,572.00	5,624.82	23.02	76.35	167.88	-936.98	-279.30	370.78	286.65	84.13	4.407	
5,650.00	5,471.87	9,579.96	5,624.85	23.07	76.49	167.52	-944.93	-279.07	395.88	309.26	86.62	4.570	
5,700.00	5,501.23	9,587.49	5,624.88	23.13	76.62	167.00	-952.45	-278.84	427.90	339.73	88.17	4.853	
5,750.00	5,527.78	9,594.56	5,624.92	23.20	76.74	166.29	-959.52	-278.62	465.31	376.24	89.07	5.224	
5,800.00	5,551.41	9,601.12	5,624.95	23.27	76.86	165.33	-966.07	-278.41	506.77	417.20	89.57	5.658	
5,850.00	5,571.98	9,607.13	5,624.98	23.36	76.96	164.00	-972.08	-278.21	551.21	461.37	89.84	6.136	
5,900.00	5,589.40	9,612.55	5,625.01	23.47	77.06	162.08	-977.50	-278.03	597.79	507.80	89.99	6.643	
5,950.00	5,603.59	9,617.34	5,625.04	23.59	77.14	159.00	-982.29	-277.86	645.86	555.77	90.09	7.169	
6,000.00	5,614.47	9,621.46	5,625.07	23.73	77.21	153.24	-986.40	-277.72	694.92	604.76	90.16	7.708	
6,050.00	5,622.00	9,624.87	5,625.09	23.88	77.27	138.42	-989.81	-277.60	744.57	654.34	90.23	8.252	
6,100.00	5,626.14	9,627.54	5,625.11	24.05	77.32	78.84	-992.48	-277.50	794.48	704.20	90.29	8.800	
6,138.45	5,627.00	9,629.07	5,625.12	24.19	77.34	27.27	-994.01	-277.45	832.89	742.56	90.33	9.220	
6,200.00	5,626.76	9,631.16	5,625.13	24.44	77.38	29.17	-996.10	-277.37	894.30	803.91	90.40	9.893	
6,300.00	5,626.37	9,634.65	5,625.16	24.89	77.44	32.19	-999.59	-277.25	994.12	903.62	90.50	10.985	
6,400.00	5,625.97	9,638.24	5,625.18	25.40	77.50	35.10	-1,003.18	-277.11	1,093.96	1,003.36	90.60	12.075	
6,500.00	5,625.58	9,641.94	5,625.21	25.96	77.57	37.91	-1,006.87	-276.97	1,193.82	1,103.12	90.70	13.162	
6,600.00	5,625.19	9,645.75	5,625.24	26.57	77.63	40.59	-1,010.68	-276.83	1,293.69	1,202.88	90.81	14.246	
6,700.00	5,624.79	9,649.69	5,625.27	27.21	77.70	43.16	-1,014.62	-276.68	1,393.57	1,302.65	90.92	15.328	
6,800.00	5,624.40	9,653.75	5,625.30	27.90	77.77	45.60	-1,018.67	-276.52	1,493.46	1,402.43	91.03	16.407	
6,900.00	5,624.01	9,657.94	5,625.34	28.63	77.85	47.92	-1,022.86	-276.35	1,593.35	1,502.21	91.14	17.482	
7,000.00	5,623.62	9,662.27	5,625.38	29.39	77.92	50.12	-1,027.18	-276.18	1,693.25	1,601.99	91.26	18.555	
7,100.00	5,623.22	9,667.01	5,625.42	30.19	78.00	52.32	-1,031.92	-275.99	1,793.15	1,701.76	91.39	19.622	
7,200.00	5,622.83	9,672.14	5,625.47	31.01	78.09	54.49	-1,037.05	-275.77	1,893.05	1,801.52	91.52	20.684	
7,300.00	5,622.44	9,677.52	5,625.52	31.86	78.19	56.54	-1,042.43	-275.54	1,992.95	1,901.28	91.67	21.741	

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Offsets - Mcdermott #1-14 (P&A) - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 5631-Unknown								Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,900.00	5,624.01	5,577.01	5,577.01	28.63	223.08	-90.55	-57.68	3,466.22	2,332.28	2,091.54	240.74	9.688	
7,000.00	5,623.62	5,576.62	5,576.62	29.39	223.06	-90.52	-57.68	3,466.22	2,240.14	1,998.85	241.29	9.284	
7,100.00	5,623.22	5,576.22	5,576.22	30.19	223.05	-90.50	-57.68	3,466.22	2,148.71	1,906.80	241.90	8.882	
7,200.00	5,622.83	5,575.83	5,575.83	31.01	223.03	-90.47	-57.68	3,466.22	2,058.07	1,815.48	242.59	8.484	
7,300.00	5,622.44	5,575.44	5,575.44	31.86	223.02	-90.45	-57.68	3,466.22	1,968.33	1,724.99	243.35	8.089	
7,400.00	5,622.04	5,575.04	5,575.04	32.73	223.00	-90.42	-57.68	3,466.22	1,879.64	1,635.44	244.20	7.697	
7,500.00	5,621.65	5,574.65	5,574.65	33.63	222.99	-90.39	-57.68	3,466.22	1,792.13	1,546.99	245.14	7.311	
7,600.00	5,621.26	5,574.26	5,574.26	34.55	222.97	-90.37	-57.68	3,466.22	1,706.00	1,459.81	246.20	6.929	
7,700.00	5,620.87	5,573.87	5,573.87	35.49	222.95	-90.34	-57.68	3,466.22	1,621.47	1,374.10	247.37	6.555	
7,800.00	5,620.47	5,573.47	5,573.47	36.45	222.94	-90.32	-57.68	3,466.22	1,538.78	1,290.11	248.68	6.188	
7,900.00	5,620.08	5,573.08	5,573.08	37.43	222.92	-90.29	-57.68	3,466.22	1,458.27	1,208.15	250.13	5.830	
8,000.00	5,619.69	5,572.69	5,572.69	38.42	222.91	-90.27	-57.68	3,466.22	1,380.31	1,128.58	251.73	5.483	
8,100.00	5,619.29	5,572.29	5,572.29	39.42	222.89	-90.24	-57.68	3,466.22	1,305.36	1,051.86	253.49	5.149	
8,200.00	5,618.90	5,571.90	5,571.90	40.44	222.88	-90.22	-57.68	3,466.22	1,233.96	978.54	255.42	4.831	
8,300.00	5,618.51	5,571.51	5,571.51	41.47	222.86	-90.19	-57.68	3,466.22	1,166.77	909.27	257.50	4.531	
8,400.00	5,618.12	5,571.12	5,571.12	42.51	222.84	-90.17	-57.68	3,466.22	1,104.56	844.84	259.72	4.253	
8,500.00	5,617.72	5,570.72	5,570.72	43.57	222.83	-90.14	-57.68	3,466.22	1,048.21	786.18	262.03	4.000	
8,600.00	5,617.33	5,570.33	5,570.33	44.63	222.81	-90.12	-57.68	3,466.22	998.72	734.36	264.36	3.778	
8,700.00	5,616.94	5,569.94	5,569.94	45.70	222.80	-90.09	-57.68	3,466.22	957.16	690.53	266.62	3.590	
8,800.00	5,616.54	5,569.54	5,569.54	46.79	222.78	-90.07	-57.68	3,466.22	924.58	655.88	268.69	3.441	
8,900.00	5,616.15	5,569.15	5,569.15	47.87	222.77	-90.04	-57.68	3,466.22	901.97	631.53	270.43	3.335	
9,000.00	5,615.76	5,568.76	5,568.76	48.97	222.75	-90.01	-57.68	3,466.22	890.08	618.36	271.72	3.276	
9,056.52	5,615.54	5,568.54	5,568.54	49.60	222.74	-90.00	-57.68	3,466.22	888.28	616.08	272.21	3.263	CC, ES, SF
9,100.00	5,615.37	5,568.37	5,568.37	50.08	222.73	-89.99	-57.68	3,466.22	889.35	616.89	272.46	3.264	
9,200.00	5,614.97	5,567.97	5,567.97	51.19	222.72	-89.96	-57.68	3,466.22	899.80	627.18	272.61	3.301	
9,300.00	5,614.58	5,567.58	5,567.58	52.30	222.70	-89.94	-57.68	3,466.22	921.05	648.82	272.23	3.383	
9,400.00	5,614.19	5,567.19	5,567.19	53.43	222.69	-89.91	-57.68	3,466.22	952.38	681.00	271.38	3.509	
9,500.00	5,613.79	5,566.79	5,566.79	54.55	222.67	-89.89	-57.68	3,466.22	992.84	722.65	270.19	3.675	
9,600.00	5,613.40	5,566.40	5,566.40	55.69	222.66	-89.86	-57.68	3,466.22	1,041.36	772.59	268.76	3.875	
9,700.00	5,613.01	5,566.01	5,566.01	56.83	222.64	-89.84	-57.68	3,466.22	1,096.87	829.65	267.21	4.105	
9,800.00	5,612.62	5,565.62	5,565.62	57.97	222.62	-89.81	-57.68	3,466.22	1,158.37	892.74	265.62	4.361	
9,900.00	5,612.22	5,565.22	5,565.22	59.12	222.61	-89.79	-57.68	3,466.22	1,224.95	960.91	264.05	4.639	
10,000.00	5,611.83	5,564.83	5,564.83	60.27	222.59	-89.76	-57.68	3,466.22	1,295.84	1,033.32	262.52	4.936	
10,100.00	5,611.44	5,564.44	5,564.44	61.42	222.58	-89.74	-57.68	3,466.22	1,370.36	1,109.28	261.08	5.249	
10,200.00	5,611.04	5,564.04	5,564.04	62.58	222.56	-89.71	-57.68	3,466.22	1,447.96	1,188.23	259.73	5.575	
10,300.00	5,610.65	5,563.65	5,563.65	63.74	222.55	-89.68	-57.68	3,466.22	1,528.16	1,269.68	258.48	5.912	
10,400.00	5,610.26	5,563.26	5,563.26	64.91	222.53	-89.66	-57.68	3,466.22	1,610.58	1,353.26	257.32	6.259	
10,500.00	5,609.86	5,562.86	5,562.86	66.08	222.51	-89.63	-57.68	3,466.22	1,694.89	1,438.64	256.26	6.614	
10,600.00	5,609.47	5,562.47	5,562.47	67.25	222.50	-89.61	-57.68	3,466.22	1,780.83	1,525.55	255.28	6.976	
10,700.00	5,609.08	5,562.08	5,562.08	68.42	222.48	-89.58	-57.68	3,466.22	1,868.17	1,613.79	254.38	7.344	
10,800.00	5,608.69	5,561.69	5,561.69	69.60	222.47	-89.56	-57.68	3,466.22	1,956.72	1,703.16	253.56	7.717	
10,900.00	5,608.29	5,561.29	5,561.29	70.78	222.45	-89.53	-57.68	3,466.22	2,046.32	1,793.52	252.81	8.094	
11,000.00	5,607.90	5,560.90	5,560.90	71.96	222.44	-89.51	-57.68	3,466.22	2,136.85	1,884.73	252.12	8.476	
11,100.00	5,607.51	5,560.51	5,560.51	73.14	222.42	-89.48	-57.68	3,466.22	2,228.19	1,976.70	251.48	8.860	
11,200.00	5,607.11	5,560.11	5,560.11	74.33	222.40	-89.46	-57.68	3,466.22	2,320.24	2,069.34	250.90	9.248	
11,300.00	5,606.72	5,559.72	5,559.72	75.52	222.39	-89.43	-57.68	3,466.22	2,412.92	2,162.55	250.37	9.637	

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Tatanka Offsets - Nay (OWP) #1 (D&A) - OH - OH												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 6310-Unknown												<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>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference</b>	<b>Offset</b>	<b>Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
7,400.00	5,622.04	5,747.04	5,747.04	32.73	229.88	-90.16	1,111.80	3,285.96	2,537.54	2,278.57	258.97	9.799	
7,500.00	5,621.65	5,746.65	5,746.65	33.63	229.87	-90.15	1,111.80	3,285.96	2,480.41	2,220.27	260.14	9.535	
7,600.00	5,621.26	5,746.26	5,746.26	34.55	229.85	-90.14	1,111.80	3,285.96	2,426.06	2,164.70	261.36	9.282	
7,700.00	5,620.87	5,745.87	5,745.87	35.49	229.83	-90.13	1,111.80	3,285.96	2,374.68	2,112.06	262.62	9.042	
7,800.00	5,620.47	5,745.47	5,745.47	36.45	229.82	-90.12	1,111.80	3,285.96	2,326.46	2,062.55	263.91	8.815	
7,900.00	5,620.08	5,745.08	5,745.08	37.43	229.80	-90.11	1,111.80	3,285.96	2,281.61	2,016.39	265.23	8.602	
8,000.00	5,619.69	5,744.69	5,744.69	38.42	229.79	-90.10	1,111.80	3,285.96	2,240.33	1,973.77	266.56	8.405	
8,100.00	5,619.29	5,744.29	5,744.29	39.42	229.77	-90.09	1,111.80	3,285.96	2,202.82	1,934.92	267.90	8.223	
8,200.00	5,618.90	5,743.90	5,743.90	40.44	229.76	-90.07	1,111.80	3,285.96	2,169.28	1,900.04	269.23	8.057	
8,300.00	5,618.51	5,743.51	5,743.51	41.47	229.74	-90.06	1,111.80	3,285.96	2,139.88	1,869.33	270.55	7.909	
8,400.00	5,618.12	5,743.12	5,743.12	42.51	229.72	-90.05	1,111.80	3,285.96	2,114.81	1,842.97	271.84	7.780	
8,500.00	5,617.72	5,742.72	5,742.72	43.57	229.71	-90.04	1,111.80	3,285.96	2,094.22	1,821.14	273.08	7.669	
8,600.00	5,617.33	5,742.33	5,742.33	44.63	229.69	-90.03	1,111.80	3,285.96	2,078.24	1,803.98	274.26	7.578	
8,700.00	5,616.94	5,741.94	5,741.94	45.70	229.68	-90.02	1,111.80	3,285.96	2,066.98	1,791.60	275.38	7.506	
8,800.00	5,616.54	5,741.54	5,741.54	46.79	229.66	-90.01	1,111.80	3,285.96	2,060.52	1,784.11	276.41	7.454	
8,883.35	5,616.22	5,741.22	5,741.22	47.69	229.65	-90.00	1,111.80	3,285.96	2,058.84	1,781.63	277.21	7.427 CC	
8,900.00	5,616.15	5,741.15	5,741.15	47.87	229.65	-90.00	1,111.80	3,285.96	2,058.90	1,781.54	277.36	7.423 ES	
9,000.00	5,615.76	5,740.76	5,740.76	48.97	229.63	-89.99	1,111.80	3,285.96	2,062.14	1,783.93	278.20	7.412 SF	
9,100.00	5,615.37	5,740.37	5,740.37	50.08	229.61	-89.98	1,111.80	3,285.96	2,070.20	1,791.26	278.94	7.422	
9,200.00	5,614.97	5,739.97	5,739.97	51.19	229.60	-89.97	1,111.80	3,285.96	2,083.04	1,803.47	279.58	7.451	
9,300.00	5,614.58	5,739.58	5,739.58	52.30	229.58	-89.95	1,111.80	3,285.96	2,100.57	1,820.47	280.10	7.499	
9,400.00	5,614.19	5,739.19	5,739.19	53.43	229.57	-89.94	1,111.80	3,285.96	2,122.67	1,842.15	280.52	7.567	
9,500.00	5,613.79	5,738.79	5,738.79	54.55	229.55	-89.93	1,111.80	3,285.96	2,149.20	1,868.37	280.83	7.653	
9,600.00	5,613.40	5,738.40	5,738.40	55.69	229.54	-89.92	1,111.80	3,285.96	2,180.00	1,898.95	281.05	7.757	
9,700.00	5,613.01	5,738.01	5,738.01	56.83	229.52	-89.91	1,111.80	3,285.96	2,214.88	1,933.71	281.17	7.877	
9,800.00	5,612.62	5,737.62	5,737.62	57.97	229.50	-89.90	1,111.80	3,285.96	2,253.67	1,972.46	281.21	8.014	
9,900.00	5,612.22	5,737.22	5,737.22	59.12	229.49	-89.89	1,111.80	3,285.96	2,296.16	2,014.99	281.17	8.166	
10,000.00	5,611.83	5,736.83	5,736.83	60.27	229.47	-89.88	1,111.80	3,285.96	2,342.15	2,061.09	281.07	8.333	
10,100.00	5,611.44	5,736.44	5,736.44	61.42	229.46	-89.87	1,111.80	3,285.96	2,391.45	2,110.54	280.90	8.513	
10,200.00	5,611.04	5,736.04	5,736.04	62.58	229.44	-89.86	1,111.80	3,285.96	2,443.84	2,163.15	280.69	8.707	
10,300.00	5,610.65	5,735.65	5,735.65	63.74	229.43	-89.85	1,111.80	3,285.96	2,499.13	2,218.70	280.43	8.912	
10,400.00	5,610.26	5,735.26	5,735.26	64.91	229.41	-89.83	1,111.80	3,285.96	2,557.15	2,277.01	280.14	9.128	
10,500.00	5,609.86	5,734.86	5,734.86	66.08	229.39	-89.82	1,111.80	3,285.96	2,617.69	2,337.88	279.81	9.355	
10,600.00	5,609.47	5,734.47	5,734.47	67.25	229.38	-89.81	1,111.80	3,285.96	2,680.60	2,401.14	279.46	9.592	
10,700.00	5,609.08	5,734.08	5,734.08	68.42	229.36	-89.80	1,111.80	3,285.96	2,745.72	2,466.62	279.10	9.838	



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Offsets - Rauth #G (D&A) - OH - OH											Offset Site Error:	0.00 usft	
Survey Program:		6218-Unknown						Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Major Axis Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,200.00	5,603.19	5,544.19	5,544.19	86.29	221.77	-90.21	1,149.49	8,531.02	2,825.33	2,537.17	288.16	9.805	
12,300.00	5,602.79	5,543.79	5,543.79	87.49	221.75	-90.20	1,149.49	8,531.02	2,758.04	2,467.59	290.45	9.496	
12,400.00	5,602.40	5,543.40	5,543.40	88.70	221.74	-90.19	1,149.49	8,531.02	2,692.78	2,399.98	292.80	9.197	
12,500.00	5,602.01	5,543.01	5,543.01	89.90	221.72	-90.18	1,149.49	8,531.02	2,629.71	2,334.49	295.21	8.908	
12,600.00	5,601.61	5,542.61	5,542.61	91.11	221.70	-90.17	1,149.49	8,531.02	2,568.98	2,271.30	297.68	8.630	
12,700.00	5,601.22	5,542.22	5,542.22	92.32	221.69	-90.16	1,149.49	8,531.02	2,510.76	2,210.56	300.20	8.364	
12,800.00	5,600.83	5,541.83	5,541.83	93.53	221.67	-90.14	1,149.49	8,531.02	2,455.24	2,152.49	302.75	8.110	
12,900.00	5,600.44	5,541.44	5,541.44	94.74	221.66	-90.13	1,149.49	8,531.02	2,402.60	2,097.27	305.33	7.869	
13,000.00	5,600.04	5,541.04	5,541.04	95.95	221.64	-90.12	1,149.49	8,531.02	2,353.04	2,045.12	307.92	7.642	
13,100.00	5,599.65	5,540.65	5,540.65	97.16	221.63	-90.11	1,149.49	8,531.02	2,306.75	1,996.25	310.50	7.429	
13,200.00	5,599.26	5,540.26	5,540.26	98.38	221.61	-90.10	1,149.49	8,531.02	2,263.93	1,950.88	313.05	7.232	
13,300.00	5,598.86	5,539.86	5,539.86	99.59	221.59	-90.09	1,149.49	8,531.02	2,224.78	1,909.23	315.55	7.050	
13,400.00	5,598.47	5,539.47	5,539.47	100.81	221.58	-90.08	1,149.49	8,531.02	2,189.51	1,871.52	317.98	6.886	
13,500.00	5,598.08	5,539.08	5,539.08	102.02	221.56	-90.07	1,149.49	8,531.02	2,158.29	1,837.98	320.31	6.738	
13,600.00	5,597.69	5,538.69	5,538.69	103.24	221.55	-90.06	1,149.49	8,531.02	2,131.32	1,808.80	322.51	6.608	
13,700.00	5,597.29	5,538.29	5,538.29	104.46	221.53	-90.05	1,149.49	8,531.02	2,108.74	1,784.18	324.56	6.497	
13,800.00	5,596.90	5,537.90	5,537.90	105.68	221.52	-90.04	1,149.49	8,531.02	2,090.71	1,764.28	326.44	6.405	
13,900.00	5,596.51	5,537.51	5,537.51	106.90	221.50	-90.02	1,149.49	8,531.02	2,077.34	1,749.23	328.11	6.331	
14,000.00	5,596.11	5,537.11	5,537.11	108.12	221.48	-90.01	1,149.49	8,531.02	2,068.73	1,739.17	329.56	6.277	
14,100.00	5,595.72	5,536.72	5,536.72	109.34	221.47	-90.00	1,149.49	8,531.02	2,064.93	1,734.15	330.78	6.243	
14,128.58	5,595.61	5,536.61	5,536.61	109.69	221.46	-90.00	1,149.49	8,531.02	2,064.73	1,733.65	331.08	6.236	CC, ES
14,200.00	5,595.33	5,536.33	5,536.33	110.56	221.45	-89.99	1,149.49	8,531.02	2,065.97	1,734.21	331.75	6.227	SF
14,300.00	5,594.94	5,535.94	5,535.94	111.78	221.44	-89.98	1,149.49	8,531.02	2,071.83	1,739.37	332.47	6.232	
14,400.00	5,594.54	5,535.54	5,535.54	113.00	221.42	-89.97	1,149.49	8,531.02	2,082.49	1,749.56	332.93	6.255	
14,500.00	5,594.15	5,535.15	5,535.15	114.23	221.41	-89.96	1,149.49	8,531.02	2,097.87	1,764.73	333.14	6.297	
14,600.00	5,593.76	5,534.76	5,534.76	115.45	221.39	-89.95	1,149.49	8,531.02	2,117.86	1,784.75	333.11	6.358	
14,700.00	5,593.36	5,534.36	5,534.36	116.67	221.37	-89.94	1,149.49	8,531.02	2,142.34	1,809.48	332.86	6.436	
14,800.00	5,592.97	5,533.97	5,533.97	117.90	221.36	-89.93	1,149.49	8,531.02	2,171.15	1,838.76	332.39	6.532	
14,900.00	5,592.58	5,533.58	5,533.58	119.12	221.34	-89.92	1,149.49	8,531.02	2,204.13	1,872.39	331.74	6.644	
15,000.00	5,592.19	5,533.19	5,533.19	120.35	221.33	-89.91	1,149.49	8,531.02	2,241.09	1,910.17	330.91	6.772	
15,100.00	5,591.79	5,532.79	5,532.79	121.58	221.31	-89.89	1,149.49	8,531.02	2,281.83	1,951.89	329.94	6.916	
15,200.00	5,591.40	5,532.40	5,532.40	122.80	221.30	-89.88	1,149.49	8,531.02	2,326.16	1,997.32	328.84	7.074	
15,300.00	5,591.01	5,532.01	5,532.01	124.03	221.28	-89.87	1,149.49	8,531.02	2,373.88	2,046.24	327.64	7.245	
15,400.00	5,590.61	5,531.61	5,531.61	125.26	221.26	-89.86	1,149.49	8,531.02	2,424.79	2,098.44	326.35	7.430	
15,500.00	5,590.22	5,531.22	5,531.22	126.49	221.25	-89.85	1,149.49	8,531.02	2,478.68	2,153.69	324.99	7.627	
15,600.00	5,589.83	5,530.83	5,530.83	127.72	221.23	-89.84	1,149.49	8,531.02	2,535.38	2,211.79	323.59	7.835	
15,700.00	5,589.44	5,530.44	5,530.44	128.94	221.22	-89.83	1,149.49	8,531.02	2,594.69	2,272.55	322.15	8.054	
15,800.00	5,589.04	5,530.04	5,530.04	130.17	221.20	-89.82	1,149.49	8,531.02	2,656.45	2,335.77	320.68	8.284	
15,900.00	5,588.65	5,529.65	5,529.65	131.40	221.19	-89.81	1,149.49	8,531.02	2,720.48	2,401.27	319.21	8.523	
16,000.00	5,588.26	5,529.26	5,529.26	132.63	221.17	-89.80	1,149.49	8,531.02	2,786.62	2,468.89	317.73	8.770	
16,100.00	5,587.86	5,528.86	5,528.86	133.86	221.15	-89.79	1,149.49	8,531.02	2,854.74	2,538.47	316.27	9.026	
16,200.00	5,587.47	5,528.47	5,528.47	135.09	221.14	-89.77	1,149.49	8,531.02	2,924.69	2,609.88	314.81	9.290	
16,300.00	5,587.08	5,528.08	5,528.08	136.33	221.12	-89.76	1,149.49	8,531.02	2,996.35	2,682.97	313.38	9.561	
16,319.94	5,587.00	5,528.00	5,528.00	136.57	221.12	-89.76	1,149.49	8,531.02	3,010.83	2,697.73	313.10	9.616	

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Offsets - Zimith #1 (D&A) - OH - OH														Offset Site Error:	0.00 usft
Survey Program: Reference		6292-Unknown Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	50.66	1,078.82	1,316.05	1,701.89						
100.00	100.00	76.00	76.00	0.88	3.04	50.66	1,078.82	1,316.05	1,701.72	1,697.79	3.92	433.663			
200.00	200.00	176.00	176.00	1.50	7.04	50.66	1,078.82	1,316.05	1,701.72	1,693.17	8.54	199.212			
300.00	300.00	276.00	276.00	1.94	11.04	50.66	1,078.82	1,316.05	1,701.72	1,688.74	12.98	131.151			
400.00	400.00	376.00	376.00	2.29	15.04	50.66	1,078.82	1,316.05	1,701.72	1,684.39	17.33	98.191			
500.00	500.00	476.00	476.00	2.60	19.04	50.66	1,078.82	1,316.05	1,701.72	1,680.08	21.64	78.636			
600.00	600.00	576.00	576.00	2.88	23.04	50.66	1,078.82	1,316.05	1,701.72	1,675.80	25.92	65.655	CC		
700.00	699.98	675.98	675.98	3.23	27.04	-140.83	1,078.82	1,316.05	1,702.90	1,672.67	30.23	56.335			
800.00	799.88	775.88	775.88	3.57	31.04	-140.88	1,078.82	1,316.05	1,706.45	1,671.94	34.51	49.446	ES		
900.00	899.58	875.58	875.58	3.91	35.02	-140.98	1,078.82	1,316.05	1,712.38	1,673.59	38.79	44.144			
1,000.00	999.01	975.01	975.01	4.26	39.00	-141.11	1,078.82	1,316.05	1,720.70	1,677.63	43.07	39.955			
1,100.00	1,098.06	1,074.06	1,074.06	4.64	42.96	-141.28	1,078.82	1,316.05	1,731.42	1,684.08	47.34	36.575			
1,200.00	1,196.65	1,172.65	1,172.65	5.02	46.91	-141.47	1,078.82	1,316.05	1,744.55	1,692.95	51.61	33.806			
1,279.87	1,275.00	1,251.00	1,251.00	5.29	50.04	-141.65	1,078.82	1,316.05	1,756.79	1,701.83	54.96	31.964			
1,300.00	1,294.69	1,270.69	1,270.69	5.34	50.83	-141.73	1,078.82	1,316.05	1,760.07	1,704.29	55.79	31.549			
1,400.00	1,392.54	1,368.54	1,368.54	5.70	54.74	-142.14	1,078.82	1,316.05	1,776.44	1,716.42	60.02	29.600			
1,500.00	1,490.40	1,466.40	1,466.40	6.08	58.66	-142.54	1,078.82	1,316.05	1,792.89	1,728.64	64.26	27.903			
1,600.00	1,588.25	1,564.25	1,564.25	6.47	62.57	-142.94	1,078.82	1,316.05	1,809.43	1,740.92	68.51	26.412			
1,700.00	1,686.10	1,662.10	1,662.10	6.86	66.48	-143.33	1,078.82	1,316.05	1,826.05	1,753.28	72.77	25.094			
1,800.00	1,783.95	1,759.95	1,759.95	7.27	70.40	-143.71	1,078.82	1,316.05	1,842.75	1,765.71	77.04	23.919			
1,900.00	1,881.80	1,857.80	1,857.80	7.69	74.31	-144.08	1,078.82	1,316.05	1,859.54	1,778.21	81.32	22.867			
2,000.00	1,979.65	1,955.65	1,955.65	8.11	78.23	-144.45	1,078.82	1,316.05	1,876.39	1,790.79	85.61	21.919			
2,100.00	2,077.51	2,053.51	2,053.51	8.54	82.14	-144.81	1,078.82	1,316.05	1,893.32	1,803.42	89.90	21.060			
2,200.00	2,175.36	2,151.36	2,151.36	8.97	86.05	-145.16	1,078.82	1,316.05	1,910.33	1,816.13	94.20	20.279			
2,300.00	2,273.21	2,249.21	2,249.21	9.40	89.97	-145.51	1,078.82	1,316.05	1,927.40	1,828.90	98.50	19.567			
2,400.00	2,371.06	2,347.06	2,347.06	9.84	93.88	-145.85	1,078.82	1,316.05	1,944.55	1,841.73	102.81	18.913			
2,500.00	2,468.91	2,444.91	2,444.91	10.29	97.80	-146.18	1,078.82	1,316.05	1,961.76	1,854.63	107.13	18.312			
2,600.00	2,566.76	2,542.76	2,542.76	10.73	101.71	-146.51	1,078.82	1,316.05	1,979.03	1,867.59	111.45	17.758			
2,700.00	2,664.62	2,640.62	2,640.62	11.18	105.62	-146.84	1,078.82	1,316.05	1,996.37	1,880.60	115.77	17.245			
5,600.00	5,439.85	5,415.85	5,415.85	23.02	216.63	-75.18	1,078.82	1,316.05	2,365.30	2,127.37	237.93	9.941			
5,650.00	5,471.87	5,447.87	5,447.87	23.07	217.91	-75.95	1,078.82	1,316.05	2,350.96	2,111.64	239.31	9.824			
5,700.00	5,501.23	5,477.23	5,477.23	23.13	219.09	-76.96	1,078.82	1,316.05	2,335.57	2,094.97	240.61	9.707			
5,750.00	5,527.78	5,503.78	5,503.78	23.20	220.15	-78.16	1,078.82	1,316.05	2,319.31	2,077.50	241.81	9.591			
5,800.00	5,551.41	5,527.41	5,527.41	23.27	221.10	-79.52	1,078.82	1,316.05	2,302.32	2,059.40	242.92	9.478			
5,850.00	5,571.98	5,547.98	5,547.98	23.36	221.92	-81.00	1,078.82	1,316.05	2,284.77	2,040.84	243.93	9.367			
5,900.00	5,589.40	5,565.40	5,565.40	23.47	222.62	-82.56	1,078.82	1,316.05	2,266.81	2,021.98	244.83	9.259			
5,950.00	5,603.59	5,579.59	5,579.59	23.59	223.18	-84.15	1,078.82	1,316.05	2,248.61	2,002.98	245.63	9.154			
6,000.00	5,614.47	5,590.47	5,590.47	23.73	223.62	-85.77	1,078.82	1,316.05	2,230.30	1,983.98	246.32	9.055			
6,050.00	5,622.00	5,598.00	5,598.00	23.88	223.92	-87.36	1,078.82	1,316.05	2,212.01	1,965.12	246.89	8.960			
6,100.00	5,626.14	5,602.14	5,602.14	24.05	224.09	-88.92	1,078.82	1,316.05	2,193.89	1,946.55	247.34	8.870			
6,138.45	5,627.00	5,603.00	5,603.00	24.19	224.12	-90.09	1,078.82	1,316.05	2,180.13	1,932.52	247.61	8.805			
6,200.00	5,626.76	5,602.76	5,602.76	24.44	224.11	-90.08	1,078.82	1,316.05	2,159.02	1,911.04	247.98	8.706			
6,300.00	5,626.37	5,602.37	5,602.37	24.89	224.09	-90.07	1,078.82	1,316.05	2,128.08	1,879.47	248.61	8.560			
6,400.00	5,625.97	5,601.97	5,601.97	25.40	224.08	-90.06	1,078.82	1,316.05	2,101.45	1,852.19	249.26	8.431			
6,500.00	5,625.58	5,601.58	5,601.58	25.96	224.06	-90.05	1,078.82	1,316.05	2,079.28	1,829.36	249.92	8.320			
6,600.00	5,625.19	5,601.19	5,601.19	26.57	224.05	-90.03	1,078.82	1,316.05	2,061.74	1,811.15	250.59	8.228			
6,700.00	5,624.79	5,600.79	5,600.79	27.21	224.03	-90.02	1,078.82	1,316.05	2,048.93	1,797.69	251.25	8.155			
6,800.00	5,624.40	5,600.40	5,600.40	27.90	224.02	-90.01	1,078.82	1,316.05	2,040.95	1,789.05	251.89	8.102			
6,900.00	5,624.01	5,600.01	5,600.01	28.63	224.00	-90.00	1,078.82	1,316.05	2,037.85	1,785.33	252.52	8.070			
6,913.26	5,623.96	5,599.96	5,599.96	28.73	224.00	-90.00	1,078.82	1,316.05	2,037.80	1,785.20	252.60	8.067			
7,000.00	5,623.62	5,599.62	5,599.62	29.39	223.98	-89.99	1,078.82	1,316.05	2,039.65	1,786.53	253.12	8.058	SF		
7,100.00	5,623.22	5,599.22	5,599.22	30.19	223.97	-89.98	1,078.82	1,316.05	2,046.34	1,792.66	253.68	8.067			

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





# Altitude Energy Partners

## Anticollision Report



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Tatanka Offsets - Zimith #1 (D&A) - OH - OH													<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 6292-Unknown													<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>Rule Assigned:</b>				<b>Warning</b>					
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference</b>	<b>Offset</b>	<b>Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>		
7,200.00	5,622.83	5,598.83	5,598.83	31.01	223.95	-89.97	1,078.82	1,316.05	2,057.88	1,803.68	254.20	8.096		
7,300.00	5,622.44	5,598.44	5,598.44	31.86	223.94	-89.96	1,078.82	1,316.05	2,074.18	1,819.50	254.68	8.144		
7,400.00	5,622.04	5,598.04	5,598.04	32.73	223.92	-89.95	1,078.82	1,316.05	2,095.13	1,840.02	255.11	8.213		
7,500.00	5,621.65	5,597.65	5,597.65	33.63	223.91	-89.94	1,078.82	1,316.05	2,120.59	1,865.11	255.49	8.300		
7,600.00	5,621.26	5,597.26	5,597.26	34.55	223.89	-89.92	1,078.82	1,316.05	2,150.41	1,894.59	255.82	8.406		
7,700.00	5,620.87	5,596.87	5,596.87	35.49	223.87	-89.91	1,078.82	1,316.05	2,184.40	1,928.30	256.10	8.529		
7,800.00	5,620.47	5,596.47	5,596.47	36.45	223.86	-89.90	1,078.82	1,316.05	2,222.37	1,966.04	256.34	8.670		
7,900.00	5,620.08	5,596.08	5,596.08	37.43	223.84	-89.89	1,078.82	1,316.05	2,264.13	2,007.60	256.53	8.826		
8,000.00	5,619.69	5,595.69	5,595.69	38.42	223.83	-89.88	1,078.82	1,316.05	2,309.47	2,052.78	256.69	8.997		
8,100.00	5,619.29	5,595.29	5,595.29	39.42	223.81	-89.87	1,078.82	1,316.05	2,358.17	2,101.37	256.80	9.183		
8,200.00	5,618.90	5,594.90	5,594.90	40.44	223.80	-89.86	1,078.82	1,316.05	2,410.05	2,153.16	256.89	9.382		
8,300.00	5,618.51	5,594.51	5,594.51	41.47	223.78	-89.85	1,078.82	1,316.05	2,464.89	2,207.95	256.94	9.593		
8,400.00	5,618.12	5,594.12	5,594.12	42.51	223.76	-89.84	1,078.82	1,316.05	2,522.50	2,265.54	256.97	9.817		

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

### Offset Design: Tatanka Pads - Tatanka Federal LD13-615 - OH - Plan #1

Survey Program: Reference		0-MWD+IFR1+MS Offset			Rule Assigned:					Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	178.87	-28.06	0.55	28.06				
100.00	100.00	100.00	100.00	0.88	0.88	178.87	-28.06	0.55	28.06	26.30	1.77	15.875	
200.00	200.00	200.00	200.00	1.50	1.50	178.87	-28.06	0.55	28.06	25.06	3.00	9.342	
300.00	300.00	300.00	300.00	1.94	1.94	178.87	-28.06	0.55	28.06	24.19	3.87	7.251	
400.00	400.00	400.00	400.00	2.29	2.29	178.87	-28.06	0.55	28.06	23.48	4.58	6.126	
500.00	500.00	500.00	500.00	2.60	2.60	178.87	-28.06	0.55	28.06	22.86	5.20	5.396	CC, ES
600.00	600.00	599.00	598.98	2.88	3.04	179.31	-29.76	0.36	29.78	23.87	5.91	5.038	
700.00	699.98	697.85	697.69	3.23	3.43	-11.56	-34.84	-0.24	33.42	26.77	6.65	5.027	
800.00	799.88	796.56	796.03	3.57	3.83	-11.40	-43.29	-1.22	37.50	30.15	7.36	5.097	
900.00	899.58	895.10	893.85	3.91	4.23	-11.55	-55.08	-2.60	42.01	33.93	8.07	5.203	
1,000.00	999.01	993.46	991.02	4.26	4.64	-11.91	-70.17	-4.35	46.94	38.13	8.81	5.329	
1,100.00	1,098.06	1,091.63	1,087.44	4.64	5.06	-12.42	-88.52	-6.49	52.28	42.72	9.56	5.469	
1,200.00	1,196.65	1,189.60	1,182.96	5.02	5.48	-13.02	-110.10	-9.01	58.04	47.71	10.33	5.617	
1,279.87	1,275.00	1,267.69	1,258.53	5.29	5.83	-13.54	-129.62	-11.28	62.93	52.02	10.91	5.768	
1,300.00	1,294.69	1,287.34	1,277.46	5.34	5.92	-13.66	-134.85	-11.89	64.27	53.23	11.04	5.823	
1,400.00	1,392.54	1,384.67	1,370.67	5.70	6.36	-13.96	-162.66	-15.14	72.91	61.11	11.80	6.179	
1,500.00	1,490.40	1,482.45	1,463.40	6.08	6.72	-13.85	-193.50	-18.73	84.62	72.11	12.51	6.762	
1,600.00	1,588.25	1,581.69	1,557.31	6.47	7.12	-13.71	-225.36	-22.44	96.93	83.59	13.33	7.269	
1,700.00	1,686.10	1,680.93	1,651.22	6.86	7.54	-13.60	-257.22	-26.16	109.23	95.05	14.19	7.699	
1,800.00	1,783.95	1,780.17	1,745.13	7.27	7.97	-13.51	-289.08	-29.87	121.54	106.48	15.06	8.070	
1,900.00	1,881.80	1,879.41	1,839.05	7.69	8.41	-13.44	-320.94	-33.58	133.85	117.90	15.95	8.393	
2,000.00	1,979.65	1,978.65	1,932.96	8.11	8.86	-13.38	-352.80	-37.30	146.16	129.31	16.85	8.674	
2,100.00	2,077.51	2,077.89	2,026.87	8.54	9.31	-13.33	-384.66	-41.01	158.47	140.70	17.76	8.921	
2,200.00	2,175.36	2,177.13	2,120.78	8.97	9.77	-13.28	-416.52	-44.73	170.77	152.09	18.69	9.139	
2,300.00	2,273.21	2,276.37	2,214.70	9.40	10.24	-13.25	-448.38	-48.44	183.08	163.46	19.62	9.332	
2,400.00	2,371.06	2,375.61	2,308.61	9.84	10.71	-13.21	-480.24	-52.15	195.39	174.83	20.56	9.505	
2,500.00	2,468.91	2,474.85	2,402.52	10.29	11.18	-13.19	-512.10	-55.87	207.70	186.20	21.50	9.660	
2,600.00	2,566.76	2,574.09	2,496.44	10.73	11.66	-13.16	-543.96	-59.58	220.01	197.56	22.45	9.799	
2,700.00	2,664.62	2,673.33	2,590.35	11.18	12.14	-13.14	-575.82	-63.30	232.32	208.91	23.41	9.925	
2,800.00	2,762.47	2,772.56	2,684.26	11.63	12.62	-13.12	-607.68	-67.01	244.62	220.26	24.37	10.039	
2,900.00	2,860.32	2,871.80	2,778.17	12.08	13.11	-13.10	-639.54	-70.72	256.93	231.60	25.33	10.143	
3,000.00	2,958.17	2,971.04	2,872.09	12.53	13.60	-13.08	-671.40	-74.44	269.24	242.94	26.30	10.239	
3,100.00	3,056.02	3,070.28	2,966.00	12.99	14.09	-13.07	-703.26	-78.15	281.55	254.28	27.27	10.326	
3,200.00	3,153.87	3,169.52	3,059.91	13.44	14.58	-13.05	-735.12	-81.86	293.86	265.62	28.24	10.406	
3,300.00	3,251.73	3,268.76	3,153.83	13.90	15.07	-13.04	-766.99	-85.58	306.17	276.95	29.21	10.480	
3,400.00	3,349.58	3,368.00	3,247.74	14.36	15.57	-13.03	-798.85	-89.29	318.47	288.28	30.19	10.549	
3,500.00	3,447.43	3,467.24	3,341.65	14.82	16.06	-13.02	-830.71	-93.01	330.78	299.61	31.17	10.612	
3,600.00	3,545.28	3,566.48	3,435.56	15.28	16.56	-13.01	-862.57	-96.72	343.09	310.94	32.15	10.671	
3,700.00	3,643.13	3,665.72	3,529.48	15.74	17.06	-13.00	-894.43	-100.43	355.40	322.27	33.13	10.726	
3,800.00	3,740.98	3,764.96	3,623.39	16.20	17.56	-12.99	-926.29	-104.15	367.71	333.59	34.12	10.778	
3,900.00	3,838.84	3,864.20	3,717.30	16.67	18.06	-12.98	-958.15	-107.86	380.02	344.91	35.10	10.826	
4,000.00	3,936.69	3,963.44	3,811.21	17.13	18.56	-12.97	-990.01	-111.57	392.33	356.24	36.09	10.871	
4,100.00	4,034.54	4,062.68	3,905.13	17.59	19.06	-12.97	-1,021.87	-115.29	404.63	367.56	37.08	10.913	
4,200.00	4,132.39	4,161.92	3,999.04	18.06	19.56	-12.96	-1,053.73	-119.00	416.94	378.88	38.07	10.953	
4,300.00	4,230.24	4,261.16	4,092.95	18.52	20.07	-12.95	-1,085.59	-122.72	429.25	390.20	39.06	10.991	
4,400.00	4,328.09	4,360.40	4,186.87	18.99	20.57	-12.95	-1,117.45	-126.43	441.56	401.51	40.05	11.026	
4,500.00	4,425.95	4,459.64	4,280.78	19.45	21.07	-12.94	-1,149.31	-130.14	453.87	412.83	41.04	11.059	
4,600.00	4,523.80	4,558.88	4,374.69	19.92	21.58	-12.93	-1,181.17	-133.86	466.18	424.15	42.03	11.091	
4,700.00	4,621.65	4,658.12	4,468.60	20.39	22.08	-12.93	-1,213.03	-137.57	478.49	435.46	43.02	11.121	
4,800.00	4,719.50	4,757.36	4,562.52	20.85	22.59	-12.92	-1,244.89	-141.28	490.79	446.78	44.02	11.150	
4,900.00	4,817.35	4,856.60	4,656.43	21.32	23.10	-12.92	-1,276.75	-145.00	503.10	458.09	45.01	11.177	
4,980.47	4,896.09	4,936.45	4,732.00	21.69	23.51	-12.92	-1,302.39	-147.99	513.01	467.20	45.81	11.199	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-615 - OH - Plan #1												Offset Site Error:
												0.00 usft
Survey Program:	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Offset Well Error:				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Reference	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	0.00 usft	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,915.21	4,955.83	4,750.34	21.78	23.60	-5.66	-1,308.61	-148.71	515.40	469.41	46.00	11.204
5,050.00	4,964.16	5,005.36	4,797.20	21.99	23.86	13.23	-1,324.51	-150.56	521.48	474.96	46.52	11.209
5,100.00	5,012.92	5,054.55	4,843.76	22.19	24.10	29.64	-1,340.31	-152.41	527.51	480.44	47.07	11.207
5,150.00	5,061.26	5,103.52	4,890.13	22.36	24.34	42.09	-1,356.02	-152.68	533.56	485.95	47.61	11.207
5,200.00	5,108.93	5,153.07	4,936.96	22.50	24.58	51.05	-1,371.87	-149.55	539.64	491.52	48.12	11.214
5,250.00	5,155.72	5,203.22	4,984.05	22.61	24.81	57.57	-1,387.76	-142.91	545.73	497.13	48.60	11.229
5,300.00	5,201.38	5,254.00	5,031.17	22.70	25.02	62.43	-1,403.64	-132.66	551.79	502.76	49.04	11.252
5,350.00	5,245.69	5,305.45	5,078.09	22.77	25.21	66.18	-1,419.42	-118.72	557.79	508.36	49.44	11.283
5,400.00	5,288.45	5,357.57	5,124.56	22.83	25.38	69.13	-1,435.01	-101.00	563.69	513.90	49.79	11.322
5,450.00	5,329.44	5,410.38	5,170.28	22.88	25.53	71.52	-1,450.31	-79.46	569.45	519.34	50.10	11.366
5,500.00	5,368.46	5,463.91	5,214.96	22.93	25.66	73.49	-1,465.22	-54.07	575.03	524.65	50.38	11.415
5,550.00	5,405.32	5,518.16	5,258.29	22.98	25.78	75.14	-1,479.64	-24.82	580.39	529.77	50.62	11.466
5,600.00	5,439.85	5,573.12	5,299.94	23.02	25.88	76.54	-1,493.46	8.25	585.50	534.67	50.83	11.518
5,650.00	5,471.87	5,628.79	5,339.56	23.07	25.98	77.73	-1,506.56	45.08	590.32	539.29	51.03	11.568
5,700.00	5,501.23	5,685.15	5,376.80	23.13	26.06	78.75	-1,518.81	85.56	594.80	543.58	51.21	11.614
5,750.00	5,527.78	5,742.19	5,411.31	23.20	26.15	79.63	-1,530.11	129.53	598.90	547.52	51.39	11.655
5,800.00	5,551.41	5,799.87	5,442.73	23.27	26.24	80.38	-1,540.34	176.78	602.60	551.04	51.56	11.686
5,850.00	5,571.98	5,858.13	5,470.72	23.36	26.33	81.02	-1,549.37	227.06	605.86	554.11	51.75	11.707
5,900.00	5,589.40	5,916.94	5,494.96	23.47	26.44	81.56	-1,557.11	280.06	608.65	556.69	51.96	11.714
5,950.00	5,603.59	5,976.23	5,515.15	23.59	26.56	82.00	-1,563.45	335.42	610.93	558.74	52.19	11.706
6,000.00	5,614.47	6,035.93	5,531.04	23.73	26.69	82.36	-1,568.32	392.74	612.69	560.24	52.45	11.681
6,050.00	5,622.00	6,095.95	5,542.40	23.88	26.85	82.62	-1,571.64	451.57	613.91	561.15	52.75	11.638
6,060.20	5,623.12	6,108.23	5,544.15	23.91	26.88	82.67	-1,572.12	463.71	614.08	561.27	52.82	11.626
6,100.00	5,626.14	6,156.21	5,549.08	24.05	27.03	82.81	-1,573.37	511.41	614.56	561.47	53.09	11.575
6,108.80	5,626.52	6,166.84	5,549.76	24.08	27.06	82.83	-1,573.50	522.02	614.62	561.46	53.16	11.562
6,138.45	5,627.00	6,202.66	5,550.96	24.19	27.18	82.89	-1,573.59	557.82	614.68	561.30	53.38	11.515
6,200.00	5,626.76	6,265.50	5,551.00	24.44	27.41	82.92	-1,573.03	620.65	614.48	560.57	53.91	11.399
6,212.18	5,626.71	6,277.67	5,551.00	24.49	27.46	82.92	-1,572.92	632.83	614.44	560.42	54.02	11.375
6,300.00	5,626.37	6,365.49	5,551.00	24.89	27.82	82.95	-1,572.13	720.65	614.14	559.29	54.85	11.198
6,320.19	5,626.29	6,385.68	5,551.00	25.00	27.90	82.96	-1,571.95	740.83	614.07	559.02	55.05	11.155
6,400.00	5,625.97	6,465.49	5,551.00	25.40	28.28	82.98	-1,571.23	820.64	613.80	557.92	55.88	10.985
6,420.19	5,625.89	6,485.68	5,551.00	25.51	28.37	82.99	-1,571.05	840.83	613.73	557.63	56.10	10.940
6,500.00	5,625.58	6,565.49	5,551.00	25.96	28.78	83.02	-1,570.33	920.64	613.46	556.46	57.00	10.763
6,520.20	5,625.50	6,585.69	5,551.00	26.08	28.89	83.02	-1,570.15	940.83	613.39	556.16	57.23	10.717
6,600.00	5,625.19	6,665.49	5,551.00	26.57	29.34	83.05	-1,569.43	1,020.63	613.12	554.92	58.20	10.535
6,620.20	5,625.11	6,685.69	5,551.00	26.70	29.45	83.06	-1,569.25	1,040.83	613.05	554.60	58.45	10.488
6,700.00	5,624.79	6,765.49	5,551.00	27.21	29.93	83.08	-1,568.53	1,120.62	612.78	553.30	59.48	10.302
6,720.20	5,624.71	6,785.69	5,551.00	27.35	30.05	83.09	-1,568.35	1,140.83	612.71	552.96	59.75	10.254
6,800.00	5,624.40	6,865.49	5,551.00	27.90	30.56	83.12	-1,567.63	1,220.62	612.44	551.60	60.84	10.067
6,820.21	5,624.32	6,885.69	5,551.00	28.05	30.69	83.12	-1,567.45	1,240.82	612.37	551.25	61.12	10.019
6,900.00	5,624.01	6,965.49	5,551.00	28.63	31.23	83.15	-1,566.73	1,320.61	612.10	549.84	62.26	9.831
6,920.21	5,623.93	6,985.70	5,551.00	28.78	31.37	83.16	-1,566.55	1,340.82	612.03	549.48	62.56	9.784
7,000.00	5,623.62	7,065.49	5,551.00	29.39	31.94	83.18	-1,565.83	1,420.61	611.76	548.02	63.75	9.597
7,020.21	5,623.54	7,085.70	5,551.00	29.55	32.08	83.19	-1,565.65	1,440.82	611.70	547.64	64.06	9.549
7,100.00	5,623.22	7,165.48	5,551.00	30.19	32.68	83.22	-1,564.93	1,520.60	611.43	546.13	65.30	9.364
7,120.22	5,623.14	7,185.70	5,551.00	30.35	32.83	83.22	-1,564.75	1,540.82	611.36	545.74	65.62	9.317
7,200.00	5,622.83	7,265.48	5,551.00	31.01	33.44	83.25	-1,564.03	1,620.60	611.09	544.19	66.90	9.134
7,220.22	5,622.75	7,285.70	5,551.00	31.18	33.60	83.26	-1,563.85	1,640.82	611.02	543.79	67.23	9.088
7,300.00	5,622.44	7,365.48	5,551.00	31.86	34.24	83.28	-1,563.13	1,720.59	610.75	542.20	68.55	8.909
7,320.22	5,622.36	7,385.71	5,551.00	32.04	34.40	83.29	-1,562.95	1,740.82	610.68	541.79	68.89	8.864
7,400.00	5,622.04	7,465.48	5,551.00	32.73	35.06	83.32	-1,562.23	1,820.59	610.41	540.16	70.26	8.688
7,420.23	5,621.96	7,485.71	5,551.00	32.92	35.23	83.32	-1,562.05	1,840.81	610.34	539.74	70.61	8.644

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-615 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,500.00	5,621.65	7,565.48	5,551.00	33.63	35.90	83.35	-1,561.33	1,920.58	610.08	538.07	72.00	8.473	
7,520.23	5,621.57	7,585.71	5,551.00	33.82	36.08	83.36	-1,561.15	1,940.81	610.01	537.65	72.36	8.430	
7,600.00	5,621.26	7,665.48	5,551.00	34.55	36.77	83.38	-1,560.43	2,020.58	609.74	535.95	73.79	8.263	
7,620.24	5,621.18	7,685.71	5,551.00	34.74	36.95	83.39	-1,560.25	2,040.81	609.67	535.51	74.16	8.221	
7,700.00	5,620.87	7,765.48	5,551.00	35.49	37.66	83.42	-1,559.53	2,120.57	609.40	533.78	75.62	8.059	
7,720.24	5,620.79	7,785.72	5,551.00	35.69	37.84	83.42	-1,559.35	2,140.81	609.33	533.34	75.99	8.018	
7,800.00	5,620.47	7,865.48	5,551.00	36.45	38.56	83.45	-1,558.63	2,220.57	609.07	531.58	77.48	7.861	
7,820.24	5,620.39	7,885.72	5,551.00	36.65	38.75	83.46	-1,558.45	2,240.81	609.00	531.13	77.86	7.821	
7,900.00	5,620.08	7,965.48	5,551.00	37.43	39.49	83.48	-1,557.73	2,320.56	608.73	529.35	79.38	7.669	
7,920.25	5,620.00	7,985.72	5,551.00	37.63	39.68	83.49	-1,557.55	2,340.81	608.66	528.89	79.77	7.631	
8,000.00	5,619.69	8,065.47	5,551.00	38.42	40.43	83.52	-1,556.83	2,420.56	608.39	527.09	81.31	7.483	
8,020.25	5,619.61	8,085.72	5,551.00	38.62	40.62	83.53	-1,556.65	2,440.81	608.32	526.62	81.70	7.446	
8,100.00	5,619.29	8,165.47	5,551.00	39.42	41.39	83.55	-1,555.93	2,520.55	608.06	524.79	83.26	7.303	
8,120.26	5,619.21	8,185.73	5,551.00	39.63	41.58	83.56	-1,555.75	2,540.80	607.99	524.33	83.66	7.267	
8,200.00	5,618.90	8,265.47	5,551.00	40.44	42.36	83.59	-1,555.03	2,620.55	607.72	522.47	85.25	7.129	
8,230.26	5,618.78	8,295.73	5,551.00	40.75	42.66	83.60	-1,554.76	2,650.80	607.62	521.77	85.85	7.078	
8,300.00	5,618.51	8,365.47	5,551.00	41.47	43.35	83.62	-1,554.13	2,720.54	607.38	520.13	87.25	6.961	
8,330.26	5,618.39	8,395.73	5,551.00	41.79	43.65	83.63	-1,553.86	2,750.80	607.28	519.42	87.87	6.911	
8,400.00	5,618.12	8,465.47	5,551.00	42.51	44.35	83.65	-1,553.23	2,820.54	607.05	517.76	89.29	6.799	
8,430.27	5,618.00	8,495.74	5,551.00	42.83	44.65	83.66	-1,552.96	2,850.80	606.95	517.04	89.90	6.751	
8,500.00	5,617.72	8,565.47	5,551.00	43.57	45.36	83.69	-1,552.34	2,920.53	606.71	515.37	91.34	6.642	
8,530.27	5,617.60	8,595.74	5,551.00	43.89	45.66	83.70	-1,552.06	2,950.80	606.61	514.65	91.96	6.596	
8,600.00	5,617.33	8,665.47	5,551.00	44.63	46.38	83.72	-1,551.44	3,020.52	606.38	512.97	93.41	6.491	
8,630.28	5,617.21	8,695.74	5,551.00	44.96	46.69	83.73	-1,551.16	3,050.80	606.28	512.23	94.04	6.447	
8,700.00	5,616.94	8,765.47	5,551.00	45.70	47.41	83.75	-1,550.54	3,120.52	606.04	510.54	95.51	6.346	
8,730.28	5,616.82	8,795.75	5,551.00	46.03	47.73	83.76	-1,550.26	3,150.80	605.94	509.80	96.14	6.302	
8,800.00	5,616.54	8,865.46	5,551.00	46.79	48.46	83.79	-1,549.64	3,220.51	605.71	508.09	97.62	6.205	
8,830.28	5,616.42	8,895.75	5,551.00	47.11	48.77	83.80	-1,549.36	3,250.80	605.61	507.35	98.26	6.163	
8,900.00	5,616.15	8,965.46	5,551.00	47.87	49.51	83.82	-1,548.74	3,320.51	605.37	505.63	99.75	6.069	
8,930.29	5,616.03	8,995.75	5,551.00	48.21	49.83	83.83	-1,548.46	3,350.80	605.27	504.88	100.39	6.029	
9,000.00	5,615.76	9,065.46	5,551.00	48.97	50.57	83.86	-1,547.84	3,420.50	605.04	503.15	101.89	5.938	
9,030.29	5,615.64	9,095.76	5,551.00	49.31	50.89	83.87	-1,547.56	3,450.80	604.94	502.40	102.54	5.899	
9,100.00	5,615.37	9,165.46	5,551.00	50.08	51.64	83.89	-1,546.94	3,520.50	604.71	500.66	104.05	5.812	
9,130.30	5,615.25	9,195.76	5,551.00	50.41	51.96	83.90	-1,546.66	3,550.80	604.61	499.90	104.70	5.774	
9,200.00	5,614.97	9,265.46	5,551.00	51.19	52.71	83.92	-1,546.04	3,620.49	604.37	498.15	106.22	5.690	
9,230.30	5,614.85	9,295.76	5,551.00	51.52	53.04	83.93	-1,545.76	3,650.79	604.27	497.39	106.88	5.654	
9,300.00	5,614.58	9,365.46	5,551.00	52.30	53.80	83.96	-1,545.14	3,720.49	604.04	495.63	108.41	5.572	
9,330.31	5,614.46	9,395.77	5,551.00	52.64	54.13	83.97	-1,544.86	3,750.79	603.94	494.87	109.07	5.537	
9,400.00	5,614.19	9,465.46	5,551.00	53.43	54.89	83.99	-1,544.24	3,820.48	603.71	493.10	110.60	5.458	
9,430.31	5,614.07	9,495.77	5,551.00	53.77	55.22	84.00	-1,543.96	3,850.79	603.61	492.33	111.27	5.425	
9,500.00	5,613.79	9,565.46	5,551.00	54.55	55.99	84.03	-1,543.34	3,920.48	603.37	490.56	112.81	5.348	
9,530.32	5,613.67	9,595.77	5,551.00	54.90	56.32	84.04	-1,543.06	3,950.79	603.27	489.79	113.48	5.316	
9,600.00	5,613.40	9,665.45	5,551.00	55.69	57.09	84.06	-1,542.44	4,020.47	603.04	488.01	115.03	5.242	
9,630.32	5,613.28	9,695.78	5,551.00	56.03	57.42	84.07	-1,542.16	4,050.79	602.94	487.23	115.71	5.211	
9,700.00	5,613.01	9,765.45	5,551.00	56.83	58.20	84.10	-1,541.54	4,120.47	602.71	485.44	117.26	5.140	
9,730.33	5,612.89	9,795.78	5,551.00	57.17	58.54	84.11	-1,541.26	4,150.79	602.61	484.66	117.94	5.109	
9,800.00	5,612.62	9,865.45	5,551.00	57.97	59.31	84.13	-1,540.64	4,220.46	602.37	482.87	119.50	5.041	
9,830.33	5,612.50	9,895.78	5,551.00	58.32	59.65	84.14	-1,540.36	4,250.79	602.27	482.09	120.19	5.011	
9,900.00	5,612.22	9,965.45	5,551.00	59.12	60.43	84.16	-1,539.74	4,320.46	602.04	480.29	121.75	4.945	
9,930.34	5,612.10	9,995.79	5,551.00	59.47	60.77	84.17	-1,539.46	4,350.79	601.94	479.50	122.44	4.916	
10,000.00	5,611.83	10,065.45	5,551.00	60.27	61.56	84.20	-1,538.84	4,420.45	601.71	477.70	124.01	4.852	
10,030.34	5,611.71	10,095.79	5,551.00	60.62	61.90	84.21	-1,538.56	4,450.79	601.61	476.91	124.70	4.824	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-615 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: 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)			
10,100.00	5,611.44	10,165.45	5,551.00	61.42	62.69	84.23	-1,537.94	4,520.45	601.38	475.10	126.28	4.762	
10,130.35	5,611.32	10,195.80	5,551.00	61.77	63.03	84.24	-1,537.66	4,550.79	601.28	474.31	126.97	4.736	
10,200.00	5,611.04	10,265.45	5,551.00	62.58	63.82	84.27	-1,537.04	4,620.44	601.05	472.49	128.56	4.675	
10,230.35	5,610.92	10,295.80	5,551.00	62.93	64.17	84.28	-1,536.76	4,650.79	600.95	471.70	129.25	4.650	
10,300.00	5,610.65	10,365.45	5,551.00	63.74	64.96	84.30	-1,536.14	4,720.44	600.72	469.88	130.84	4.591	
10,330.36	5,610.53	10,395.80	5,551.00	64.10	65.30	84.31	-1,535.86	4,750.79	600.62	469.08	131.53	4.566	
10,400.00	5,610.26	10,465.45	5,551.00	64.91	66.10	84.34	-1,535.24	4,820.43	600.38	467.26	133.13	4.510	
10,430.36	5,610.14	10,495.81	5,551.00	65.26	66.45	84.35	-1,534.96	4,850.79	600.28	466.46	133.82	4.486	
10,500.00	5,609.86	10,564.85	5,550.48	66.08	67.24	84.32	-1,534.34	4,919.83	600.11	464.66	135.44	4.431	
10,530.06	5,609.75	10,594.91	5,550.18	66.43	67.58	84.30	-1,534.07	4,949.89	600.04	463.89	136.14	4.407	
10,600.00	5,609.47	10,664.85	5,549.47	67.25	68.39	84.26	-1,533.44	5,019.82	599.87	462.10	137.78	4.354	
10,629.94	5,609.35	10,694.78	5,549.17	67.60	68.73	84.24	-1,533.17	5,049.75	599.81	461.33	138.48	4.331	
10,700.00	5,609.08	10,764.84	5,548.46	68.42	69.54	84.20	-1,532.54	5,119.80	599.64	459.52	140.12	4.279	
10,729.93	5,608.96	10,794.77	5,548.16	68.77	69.88	84.18	-1,532.27	5,149.73	599.58	458.75	140.82	4.258	
10,800.00	5,608.69	10,864.84	5,547.46	69.60	70.69	84.14	-1,531.64	5,219.79	599.41	456.95	142.47	4.207	
10,829.92	5,608.57	10,894.76	5,547.16	69.95	71.04	84.12	-1,531.37	5,249.71	599.35	456.17	143.17	4.186	
10,900.00	5,608.29	10,964.84	5,546.45	70.78	71.85	84.08	-1,530.74	5,319.78	599.19	454.36	144.82	4.137	
10,929.91	5,608.18	10,994.75	5,546.15	71.13	72.20	84.06	-1,530.47	5,349.69	599.12	453.59	145.53	4.117	
11,000.00	5,607.90	11,064.84	5,545.44	71.96	73.01	84.01	-1,529.84	5,419.77	598.96	451.78	147.18	4.070	
11,029.91	5,607.78	11,094.74	5,545.14	72.31	73.36	84.00	-1,529.57	5,449.67	598.89	451.00	147.89	4.050	
11,100.00	5,607.51	11,164.83	5,544.44	73.14	74.18	83.95	-1,528.94	5,519.76	598.73	449.19	149.54	4.004	
11,129.90	5,607.39	11,194.73	5,544.13	73.50	74.53	83.94	-1,528.67	5,549.65	598.66	448.41	150.25	3.984	
11,200.00	5,607.11	11,264.83	5,543.43	74.33	75.35	83.89	-1,528.04	5,619.75	598.50	446.59	151.91	3.940	
11,229.89	5,607.00	11,294.72	5,543.13	74.68	75.70	83.87	-1,527.77	5,649.64	598.43	445.82	152.62	3.921	
11,300.00	5,606.72	11,364.83	5,542.42	75.52	76.52	83.83	-1,527.14	5,719.74	598.28	444.00	154.28	3.878	
11,329.89	5,606.60	11,394.71	5,542.12	75.87	76.87	83.81	-1,526.87	5,749.62	598.21	443.22	154.99	3.860	
11,400.00	5,606.33	11,464.83	5,541.41	76.71	77.69	83.77	-1,526.24	5,819.72	598.05	441.40	156.65	3.818	
11,429.88	5,606.21	11,494.70	5,541.11	77.06	78.04	83.75	-1,525.97	5,849.60	597.98	440.62	157.36	3.800	
11,500.00	5,605.94	11,564.83	5,540.41	77.90	78.86	83.71	-1,525.34	5,919.71	597.82	438.79	159.03	3.759	
11,529.87	5,605.82	11,594.70	5,540.11	78.25	79.21	83.69	-1,525.07	5,949.58	597.76	438.02	159.74	3.742	
11,600.00	5,605.54	11,664.82	5,539.40	79.09	80.04	83.65	-1,524.44	6,019.70	597.60	436.19	161.41	3.702	
11,629.86	5,605.43	11,694.69	5,539.10	79.45	80.39	83.63	-1,524.17	6,049.56	597.53	435.41	162.12	3.686	
11,700.00	5,605.15	11,764.82	5,538.39	80.29	81.22	83.58	-1,523.54	6,119.69	597.38	433.58	163.80	3.647	
11,729.86	5,605.03	11,794.68	5,538.09	80.64	81.57	83.57	-1,523.27	6,149.54	597.31	432.80	164.51	3.631	
11,800.00	5,604.76	11,864.82	5,537.38	81.48	82.40	83.52	-1,522.64	6,219.68	597.15	430.97	166.18	3.593	
11,829.85	5,604.64	11,894.67	5,537.08	81.84	82.75	83.50	-1,522.37	6,249.53	597.09	430.19	166.90	3.578	
11,900.00	5,604.36	11,964.82	5,536.38	82.68	83.58	83.46	-1,521.74	6,319.67	596.93	428.36	168.57	3.541	
11,929.85	5,604.25	11,994.66	5,536.08	83.04	83.94	83.44	-1,521.47	6,349.51	596.87	427.58	169.29	3.526	
12,000.00	5,603.97	12,064.81	5,535.37	83.88	84.77	83.40	-1,520.84	6,419.66	596.71	425.74	170.97	3.490	
12,029.84	5,603.85	12,094.65	5,535.07	84.24	85.12	83.38	-1,520.57	6,449.49	596.64	424.96	171.68	3.475	
12,100.00	5,603.58	12,164.81	5,534.36	85.08	85.95	83.34	-1,519.94	6,519.64	596.49	423.13	173.36	3.441	
12,129.83	5,603.46	12,194.64	5,534.06	85.44	86.31	83.32	-1,519.67	6,549.47	596.42	422.34	174.08	3.426	
12,200.00	5,603.19	12,264.81	5,533.36	86.29	87.14	83.27	-1,519.04	6,619.63	596.27	420.51	175.76	3.392	
12,229.83	5,603.07	12,294.64	5,533.06	86.64	87.50	83.26	-1,518.77	6,649.46	596.20	419.73	176.48	3.378	
12,300.00	5,602.79	12,364.81	5,532.35	87.49	88.33	83.21	-1,518.14	6,719.62	596.05	417.89	178.16	3.346	
12,329.82	5,602.68	12,394.63	5,532.05	87.85	88.69	83.19	-1,517.87	6,749.44	595.99	417.11	178.88	3.332	
12,400.00	5,602.40	12,464.80	5,531.34	88.70	89.52	83.15	-1,517.24	6,819.61	595.83	415.27	180.57	3.300	
12,429.82	5,602.28	12,494.62	5,531.04	89.05	89.88	83.13	-1,516.97	6,849.42	595.77	414.48	181.28	3.286	
12,500.00	5,602.01	12,565.52	5,530.86	89.90	90.72	83.14	-1,516.34	6,920.32	595.55	412.60	182.95	3.255	
12,530.10	5,601.89	12,595.63	5,530.86	90.27	91.08	83.15	-1,516.07	6,950.43	595.45	411.78	183.67	3.242	
12,600.00	5,601.61	12,665.52	5,530.86	91.11	91.92	83.17	-1,515.44	7,020.32	595.21	409.88	185.33	3.212	
12,630.21	5,601.50	12,695.74	5,530.86	91.47	92.28	83.18	-1,515.16	7,050.53	595.11	409.06	186.05	3.199	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-615 - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HFR1+MS														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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
12,700.00	5,601.22	12,765.52	5,530.86	92.32	93.12	83.21	-1,514.54	7,120.31	594.87	407.16	187.72	3.169			
12,730.22	5,601.10	12,795.74	5,530.86	92.68	93.48	83.22	-1,514.26	7,150.53	594.77	406.33	188.44	3.156			
12,800.00	5,600.83	12,865.52	5,530.87	93.53	94.31	83.24	-1,513.64	7,220.31	594.53	404.43	190.10	3.127			
12,830.22	5,600.71	12,895.74	5,530.87	93.89	94.67	83.25	-1,513.36	7,250.53	594.43	403.61	190.83	3.115			
12,900.00	5,600.44	12,965.52	5,530.87	94.74	95.51	83.28	-1,512.74	7,320.30	594.20	401.70	192.49	3.087			
12,930.23	5,600.32	12,995.74	5,530.87	95.11	95.87	83.29	-1,512.47	7,350.53	594.09	400.88	193.22	3.075			
13,000.00	5,600.04	13,065.52	5,530.88	95.95	96.71	83.31	-1,511.84	7,420.30	593.86	398.97	194.89	3.047			
13,030.23	5,599.92	13,095.75	5,530.88	96.32	97.07	83.32	-1,511.57	7,450.52	593.76	398.15	195.61	3.035			
13,100.00	5,599.65	13,165.52	5,530.88	97.16	97.91	83.35	-1,510.94	7,520.29	593.52	396.24	197.28	3.009			
13,130.23	5,599.53	13,195.75	5,530.88	97.53	98.28	83.36	-1,510.67	7,550.52	593.42	395.42	198.00	2.997			
13,200.00	5,599.26	13,265.52	5,530.88	98.38	99.12	83.38	-1,510.04	7,620.29	593.18	393.51	199.68	2.971			
13,230.24	5,599.14	13,295.75	5,530.88	98.74	99.48	83.39	-1,509.77	7,650.52	593.08	392.68	200.40	2.959			
13,300.00	5,598.86	13,365.51	5,530.89	99.59	100.32	83.42	-1,509.14	7,720.28	592.85	390.77	202.07	2.934			
13,330.24	5,598.75	13,395.76	5,530.89	99.96	100.68	83.43	-1,508.87	7,750.52	592.74	389.94	202.80	2.923			
13,400.00	5,598.47	13,465.51	5,530.89	100.81	101.52	83.45	-1,508.24	7,820.28	592.51	388.03	204.47	2.898			
13,430.25	5,598.35	13,495.76	5,530.89	101.18	101.89	83.46	-1,507.97	7,850.52	592.41	387.21	205.20	2.887			
13,500.00	5,598.08	13,565.51	5,530.89	102.02	102.73	83.49	-1,507.34	7,920.27	592.17	385.30	206.88	2.862			
13,530.25	5,597.96	13,595.76	5,530.90	102.39	103.09	83.50	-1,507.07	7,950.52	592.07	384.47	207.60	2.852			
13,600.00	5,597.69	13,665.51	5,530.90	103.24	103.94	83.52	-1,506.44	8,020.26	591.83	382.55	209.28	2.828			
13,630.25	5,597.57	13,695.76	5,530.90	103.61	104.30	83.53	-1,506.17	8,050.52	591.73	381.72	210.01	2.818			
13,700.00	5,597.29	13,765.51	5,530.90	104.46	105.14	83.56	-1,505.54	8,120.26	591.50	379.81	211.69	2.794			
13,730.26	5,597.17	13,795.77	5,530.90	104.83	105.51	83.57	-1,505.27	8,150.52	591.40	378.98	212.42	2.784			
13,800.00	5,596.90	13,865.51	5,530.91	105.68	106.35	83.59	-1,504.64	8,220.25	591.16	377.07	214.09	2.761			
13,830.26	5,596.78	13,895.77	5,530.91	106.05	106.72	83.60	-1,504.37	8,250.52	591.06	376.24	214.82	2.751			
13,900.00	5,596.51	13,965.51	5,530.91	106.90	107.56	83.63	-1,503.74	8,320.25	590.83	374.32	216.50	2.729			
13,930.27	5,596.39	13,995.77	5,530.91	107.27	107.93	83.64	-1,503.47	8,350.51	590.72	373.49	217.23	2.719			
14,000.00	5,596.11	14,065.51	5,530.91	108.12	108.77	83.66	-1,502.84	8,420.24	590.49	371.57	218.92	2.697			
14,030.27	5,596.00	14,095.78	5,530.91	108.49	109.14	83.67	-1,502.57	8,450.51	590.39	370.74	219.65	2.688			
14,100.00	5,595.72	14,165.50	5,530.92	109.34	109.99	83.70	-1,501.94	8,520.24	590.15	368.83	221.33	2.666			
14,130.28	5,595.60	14,195.78	5,530.92	109.71	110.35	83.71	-1,501.67	8,550.51	590.05	367.99	222.06	2.657			
14,200.00	5,595.33	14,265.50	5,530.92	110.56	111.20	83.73	-1,501.04	8,620.23	589.82	366.08	223.74	2.636			
14,230.28	5,595.21	14,295.78	5,530.92	110.93	111.56	83.74	-1,500.77	8,650.51	589.72	365.24	224.48	2.627			
14,300.00	5,594.94	14,365.50	5,530.92	111.78	112.41	83.77	-1,500.14	8,720.23	589.48	363.32	226.16	2.606			
14,330.28	5,594.82	14,395.79	5,530.93	112.15	112.78	83.78	-1,499.87	8,750.51	589.38	362.49	226.89	2.598			
14,400.00	5,594.54	14,465.50	5,530.93	113.00	113.62	83.80	-1,499.24	8,820.22	589.15	360.57	228.58	2.577			
14,430.29	5,594.42	14,495.79	5,530.93	113.37	113.99	83.81	-1,498.97	8,850.51	589.05	359.74	229.31	2.569			
14,500.00	5,594.15	14,565.50	5,530.93	114.23	114.84	83.84	-1,498.34	8,920.22	588.81	357.82	231.00	2.549			
14,530.29	5,594.03	14,595.79	5,530.93	114.60	115.21	83.85	-1,498.07	8,950.51	588.71	356.98	231.73	2.541			
14,600.00	5,593.76	14,665.50	5,530.94	115.45	116.05	83.87	-1,497.44	9,020.21	588.48	355.06	233.42	2.521			
14,630.30	5,593.64	14,695.80	5,530.94	115.82	116.42	83.88	-1,497.17	9,050.51	588.38	354.23	234.15	2.513			
14,700.00	5,593.36	14,765.50	5,530.94	116.67	117.27	83.91	-1,496.54	9,120.21	588.15	352.30	235.84	2.494			
14,730.30	5,593.25	14,795.80	5,530.94	117.05	117.64	83.92	-1,496.27	9,150.51	588.04	351.47	236.58	2.486			
14,800.00	5,592.97	14,865.50	5,530.94	117.90	118.49	83.94	-1,495.64	9,220.20	587.81	349.55	238.26	2.467			
14,830.31	5,592.85	14,895.80	5,530.94	118.27	118.86	83.95	-1,495.37	9,250.51	587.71	348.71	239.00	2.459			
14,900.00	5,592.58	14,965.49	5,530.95	119.12	119.70	83.98	-1,494.74	9,320.20	587.48	346.79	240.69	2.441			
14,930.31	5,592.46	14,995.81	5,530.95	119.50	120.07	83.99	-1,494.47	9,350.51	587.38	345.95	241.42	2.433			
15,000.00	5,592.19	15,065.49	5,530.95	120.35	120.92	84.01	-1,493.84	9,420.19	587.14	344.03	243.12	2.415			
15,030.32	5,592.07	15,095.81	5,530.95	120.72	121.29	84.02	-1,493.57	9,450.51	587.04	343.19	243.85	2.407			
15,100.00	5,591.79	15,165.49	5,530.95	121.58	122.14	84.05	-1,492.94	9,520.19	586.81	341.27	245.54	2.390			
15,130.32	5,591.67	15,195.81	5,530.96	121.95	122.51	84.06	-1,492.67	9,550.51	586.71	340.43	246.28	2.382			
15,200.00	5,591.40	15,265.49	5,530.96	122.80	123.36	84.09	-1,492.04	9,620.18	586.48	338.51	247.97	2.365			
15,230.33	5,591.28	15,295.82	5,530.96	123.18	123.73	84.10	-1,491.77	9,650.51	586.38	337.67	248.71	2.358			

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



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-615 - OH - Plan #1											Offset Site Error: 0.00 usft		
Survey Program: 0-MWD+IFR1+MS								Rule Assigned:				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Major Axis Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	5,591.01	15,365.49	5,530.96	124.03	124.58	84.12	-1,491.14	9,720.18	586.14	335.74	250.40	2.341	
15,330.33	5,590.89	15,395.82	5,530.96	124.40	124.95	84.13	-1,490.87	9,750.51	586.04	334.90	251.14	2.334	
15,400.00	5,590.61	15,465.49	5,530.97	125.26	125.80	84.16	-1,490.24	9,820.17	585.81	332.98	252.83	2.317	
15,430.34	5,590.50	15,495.83	5,530.97	125.63	126.17	84.17	-1,489.97	9,850.51	585.71	332.14	253.57	2.310	
15,500.00	5,590.22	15,565.49	5,530.97	126.49	127.02	84.19	-1,489.34	9,920.16	585.48	330.21	255.27	2.294	
15,530.34	5,590.10	15,595.83	5,530.97	126.86	127.39	84.20	-1,489.07	9,950.51	585.38	329.38	256.00	2.287	
15,600.00	5,589.83	15,665.49	5,530.97	127.72	128.24	84.23	-1,488.44	10,020.16	585.15	327.45	257.70	2.271	
15,630.35	5,589.71	15,695.83	5,530.97	128.09	128.61	84.24	-1,488.17	10,050.51	585.05	326.61	258.44	2.264	
15,700.00	5,589.44	15,765.48	5,530.98	128.94	129.47	84.26	-1,487.54	10,120.15	584.82	324.68	260.13	2.248	
15,730.35	5,589.32	15,795.84	5,530.98	129.32	129.84	84.27	-1,487.27	10,150.51	584.71	323.84	260.87	2.241	
15,800.00	5,589.04	15,865.48	5,530.98	130.17	130.69	84.30	-1,486.64	10,220.15	584.48	321.92	262.57	2.226	
15,830.36	5,588.92	15,895.84	5,530.98	130.55	131.06	84.31	-1,486.37	10,250.51	584.38	321.07	263.31	2.219	
15,900.00	5,588.65	15,965.48	5,530.98	131.40	131.91	84.34	-1,485.74	10,320.14	584.15	319.15	265.00	2.204	
15,930.37	5,588.53	15,995.85	5,530.99	131.78	132.28	84.35	-1,485.47	10,350.51	584.05	318.31	265.74	2.198	
16,000.00	5,588.26	16,065.48	5,530.99	132.63	133.14	84.37	-1,484.84	10,420.14	583.82	316.38	267.44	2.183	
16,030.37	5,588.14	16,095.85	5,530.99	133.01	133.51	84.38	-1,484.57	10,450.51	583.72	315.54	268.18	2.177	
16,100.00	5,587.86	16,165.48	5,530.99	133.86	134.36	84.41	-1,483.94	10,520.13	583.49	313.61	269.88	2.162	
16,130.38	5,587.74	16,195.86	5,530.99	134.24	134.73	84.42	-1,483.67	10,550.51	583.39	312.77	270.62	2.156	
16,200.00	5,587.47	16,265.48	5,531.00	135.09	135.58	84.44	-1,483.04	10,620.13	583.16	310.84	272.32	2.141	
16,230.38	5,587.35	16,295.86	5,531.00	135.47	135.96	84.45	-1,482.77	10,650.51	583.06	310.00	273.06	2.135	
16,300.00	5,587.08	16,365.48	5,531.00	136.33	136.81	84.48	-1,482.14	10,720.12	582.83	308.07	274.76	2.121	
16,315.92	5,587.02	16,381.40	5,531.00	136.52	137.00	84.48	-1,482.00	10,736.04	582.78	307.63	275.15	2.118	
16,319.89	5,587.00	16,385.37	5,531.00	136.57	137.05	84.49	-1,481.96	10,740.01	582.76	307.52	275.24	2.117	
16,319.94	5,587.00	16,385.42	5,531.00	136.57	137.05	84.49	-1,481.96	10,740.06	582.76	307.52	275.25	2.117 SF	

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-1.13	28.05	-0.55	28.06				
100.00	100.00	100.00	100.00	0.88	0.88	-1.13	28.05	-0.55	28.06	26.29	1.77	15.873	
200.00	200.00	200.00	200.00	1.50	1.50	-1.13	28.05	-0.55	28.06	25.05	3.00	9.340	
300.00	300.00	300.00	300.00	1.94	1.94	-1.13	28.05	-0.55	28.06	24.19	3.87	7.250	
400.00	400.00	400.00	400.00	2.29	2.29	-1.13	28.05	-0.55	28.06	23.48	4.58	6.125	
500.00	500.00	500.00	500.00	2.60	2.60	-1.13	28.05	-0.55	28.06	22.86	5.20	5.396	
600.00	600.00	600.00	600.00	2.88	2.88	-1.13	28.05	-0.55	28.06	22.30	5.76	4.873 CC, ES	
700.00	699.98	699.98	699.98	3.23	3.14	168.05	28.05	-0.55	29.55	23.19	6.36	4.644	
800.00	799.88	800.64	800.63	3.57	3.42	168.53	26.90	-1.21	32.90	25.93	6.97	4.723	
900.00	899.58	901.35	901.26	3.91	3.70	167.82	23.45	-3.19	36.95	29.39	7.56	4.890	
1,000.00	999.01	1,002.12	1,001.80	4.26	4.00	166.30	17.69	-6.49	41.73	33.58	8.16	5.116	
1,100.00	1,098.06	1,102.42	1,101.70	4.64	4.17	164.51	9.96	-10.91	47.56	38.91	8.64	5.502	
1,200.00	1,196.65	1,202.05	1,200.91	5.02	4.45	163.81	1.99	-15.47	56.07	46.80	9.27	6.047	
1,279.87	1,275.00	1,281.42	1,279.95	5.29	4.69	163.92	-4.36	-19.10	64.97	55.22	9.75	6.663	
1,300.00	1,294.69	1,301.39	1,299.84	5.34	4.75	164.01	-5.95	-20.02	67.45	57.59	9.85	6.845	
1,400.00	1,392.54	1,400.63	1,398.65	5.70	5.06	164.38	-13.89	-24.56	79.75	69.26	10.49	7.602	
1,500.00	1,490.40	1,499.87	1,497.47	6.08	5.38	164.65	-21.82	-29.10	92.06	80.91	11.15	8.256	
1,600.00	1,588.25	1,599.11	1,596.29	6.47	5.71	164.86	-29.76	-33.64	104.38	92.55	11.83	8.824	
1,700.00	1,686.10	1,698.35	1,695.10	6.86	6.05	165.02	-37.69	-38.18	116.69	104.17	12.52	9.319	
1,800.00	1,783.95	1,797.59	1,793.92	7.27	6.40	165.15	-45.62	-42.72	129.00	115.78	13.23	9.752	
1,900.00	1,881.80	1,896.83	1,892.74	7.69	6.74	165.26	-53.56	-47.26	141.32	127.37	13.94	10.134	
2,000.00	1,979.65	1,996.06	1,991.55	8.11	7.10	165.35	-61.49	-51.80	153.63	138.96	14.67	10.472	
2,100.00	2,077.51	2,095.30	2,090.37	8.54	7.45	165.43	-69.43	-56.34	165.95	150.54	15.41	10.772	
2,200.00	2,175.36	2,194.54	2,189.19	8.97	7.81	165.50	-77.36	-60.88	178.26	162.12	16.15	11.040	
2,300.00	2,273.21	2,293.78	2,288.00	9.40	8.18	165.56	-85.30	-65.42	190.58	173.68	16.89	11.280	
2,400.00	2,371.06	2,393.02	2,386.82	9.84	8.54	165.61	-93.23	-69.97	202.89	185.25	17.65	11.497	
2,500.00	2,468.91	2,492.26	2,485.64	10.29	8.91	165.65	-101.17	-74.51	215.21	196.80	18.40	11.693	
2,600.00	2,566.76	2,591.50	2,584.45	10.73	9.28	165.70	-109.10	-79.05	227.53	208.36	19.17	11.871	
2,700.00	2,664.62	2,690.73	2,683.27	11.18	9.65	165.73	-117.03	-83.59	239.84	219.91	19.93	12.033	
2,800.00	2,762.47	2,789.97	2,782.08	11.63	10.02	165.76	-124.97	-88.13	252.16	231.46	20.70	12.182	
2,900.00	2,860.32	2,889.21	2,880.90	12.08	10.40	165.79	-132.90	-92.67	264.47	243.00	21.47	12.318	
3,000.00	2,958.17	2,988.45	2,979.72	12.53	10.77	165.82	-140.84	-97.21	276.79	254.55	22.24	12.443	
3,100.00	3,056.02	3,087.69	3,078.53	12.99	11.15	165.85	-148.77	-101.75	289.11	266.09	23.02	12.559	
3,200.00	3,153.87	3,186.93	3,177.35	13.44	11.52	165.87	-156.71	-106.29	301.42	277.62	23.80	12.665	
3,300.00	3,251.73	3,286.17	3,276.17	13.90	11.90	165.89	-164.64	-110.83	313.74	289.16	24.58	12.765	
3,400.00	3,349.58	3,385.40	3,374.98	14.36	12.28	165.91	-172.58	-115.37	326.06	300.69	25.36	12.857	
3,500.00	3,447.43	3,484.64	3,473.80	14.82	12.66	165.93	-180.51	-119.91	338.37	312.23	26.14	12.943	
3,600.00	3,545.28	3,583.88	3,572.62	15.28	13.04	165.94	-188.44	-124.46	350.69	323.76	26.93	13.023	
3,700.00	3,643.13	3,683.12	3,671.43	15.74	13.42	165.96	-196.38	-129.00	363.00	335.29	27.71	13.098	
3,800.00	3,740.98	3,782.36	3,770.25	16.20	13.80	165.97	-204.31	-133.54	375.32	346.82	28.50	13.168	
3,900.00	3,838.84	3,881.60	3,869.07	16.67	14.18	165.99	-212.25	-138.08	387.64	358.35	29.29	13.235	
4,000.00	3,936.69	3,980.84	3,967.88	17.13	14.56	166.00	-220.18	-142.62	399.95	369.88	30.08	13.297	
4,100.00	4,034.54	4,080.07	4,066.70	17.59	14.94	166.01	-228.12	-147.16	412.27	381.40	30.87	13.355	
4,200.00	4,132.39	4,179.31	4,165.52	18.06	15.33	166.02	-236.05	-151.70	424.59	392.93	31.66	13.411	
4,300.00	4,230.24	4,278.55	4,264.33	18.52	15.71	166.03	-243.98	-156.24	436.90	404.45	32.45	13.463	
4,400.00	4,328.09	4,377.79	4,363.15	18.99	16.09	166.04	-251.92	-160.78	449.22	415.98	33.25	13.512	
4,500.00	4,425.95	4,477.03	4,461.97	19.45	16.48	166.05	-259.85	-165.32	461.54	427.50	34.04	13.559	
4,600.00	4,523.80	4,576.27	4,560.78	19.92	16.86	166.06	-267.79	-169.86	473.85	439.02	34.83	13.604	
4,700.00	4,621.65	4,675.51	4,659.60	20.39	17.25	166.07	-275.72	-174.41	486.17	450.54	35.63	13.646	
4,800.00	4,719.50	4,774.74	4,758.42	20.85	17.63	166.08	-283.66	-178.95	498.49	462.07	36.42	13.686	
4,900.00	4,817.35	4,875.23	4,858.52	21.32	17.98	166.30	-291.68	-181.69	510.74	473.49	37.25	13.710	
4,980.47	4,896.09	4,955.83	4,938.55	21.69	18.13	167.44	-298.06	-175.06	520.42	482.36	38.06	13.673	

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



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,915.21	4,975.04	4,957.47	21.78	18.13	175.44	-299.56	-172.14	522.79	484.54	38.25	13.668	
5,050.00	4,964.16	5,023.79	5,005.10	21.99	18.12	-164.08	-303.32	-162.48	528.97	490.27	38.70	13.669	
5,100.00	5,012.92	5,071.98	5,051.42	22.19	18.09	-146.48	-306.96	-149.76	535.26	496.17	39.09	13.693	
5,150.00	5,061.26	5,119.64	5,096.30	22.36	18.05	-133.07	-310.47	-134.13	541.63	502.22	39.42	13.742	
5,200.00	5,108.93	5,166.80	5,139.59	22.50	18.00	-123.18	-313.84	-115.75	548.04	508.37	39.67	13.815	
5,250.00	5,155.72	5,213.49	5,181.18	22.61	17.95	-115.79	-317.06	-94.78	554.43	514.57	39.86	13.909	
5,300.00	5,201.38	5,259.75	5,220.95	22.70	17.90	-110.09	-320.12	-71.37	560.76	520.77	39.99	14.022	
5,350.00	5,245.69	5,305.60	5,258.80	22.77	17.86	-105.57	-323.01	-45.67	567.00	526.92	40.07	14.149	
5,400.00	5,288.45	5,350.00	5,293.82	22.83	17.82	-101.90	-325.67	-18.52	573.09	532.99	40.10	14.292	
5,450.00	5,329.44	5,396.21	5,328.42	22.88	17.78	-98.82	-328.28	11.99	579.00	538.87	40.12	14.431	
5,500.00	5,368.46	5,441.03	5,360.03	22.93	17.76	-96.22	-330.65	43.66	584.68	544.58	40.11	14.578	
5,550.00	5,405.32	5,485.54	5,389.42	22.98	17.75	-94.00	-332.82	77.02	590.11	550.03	40.08	14.725	
5,600.00	5,439.85	5,529.79	5,416.53	23.02	17.76	-92.08	-334.81	111.93	595.24	555.20	40.04	14.867	
5,650.00	5,471.87	5,573.80	5,441.31	23.07	17.78	-90.43	-336.60	148.25	600.03	560.04	40.00	15.002	
5,700.00	5,501.23	5,617.59	5,463.71	23.13	17.82	-88.99	-338.20	185.83	604.47	564.51	39.96	15.126	
5,750.00	5,527.78	5,661.17	5,483.69	23.20	17.87	-87.75	-339.59	224.53	608.52	568.58	39.94	15.235	
5,800.00	5,551.41	5,704.58	5,501.23	23.27	17.94	-86.69	-340.79	264.21	612.16	572.21	39.94	15.325	
5,850.00	5,571.98	5,750.00	5,516.98	23.36	18.04	-85.77	-341.82	306.79	615.36	575.36	40.00	15.383	
5,900.00	5,589.40	5,790.95	5,528.85	23.47	18.15	-85.03	-342.57	345.97	618.10	578.07	40.03	15.439	
5,950.00	5,603.59	5,833.95	5,538.88	23.59	18.28	-84.41	-343.15	387.77	620.37	580.24	40.13	15.459	
6,000.00	5,614.47	5,876.85	5,546.39	23.73	18.43	-83.94	-343.53	430.00	622.15	581.88	40.27	15.451	
6,050.00	5,622.00	5,919.67	5,551.35	23.88	18.60	-83.59	-343.70	472.52	623.43	582.99	40.44	15.416	
6,100.00	5,626.14	5,962.42	5,553.77	24.05	18.78	-83.36	-343.67	515.20	624.20	583.55	40.66	15.353	
6,108.43	5,626.50	5,969.62	5,553.93	24.08	18.82	-83.34	-343.65	522.40	624.28	583.58	40.70	15.339	
6,138.45	5,627.00	5,996.36	5,553.93	24.19	18.94	-83.28	-343.51	549.13	624.44	583.58	40.86	15.281	
6,152.70	5,626.94	6,010.61	5,553.78	24.25	19.01	-83.27	-343.42	563.38	624.45	583.48	40.98	15.239	
6,200.00	5,626.76	6,057.90	5,553.31	24.44	19.26	-83.25	-343.13	610.67	624.49	583.13	41.36	15.099	
6,223.08	5,626.67	6,080.98	5,553.09	24.54	19.38	-83.23	-342.99	633.75	624.50	582.94	41.56	15.027	
6,300.00	5,626.37	6,157.90	5,552.32	24.89	19.82	-83.19	-342.53	710.67	624.56	582.29	42.26	14.778	
6,323.08	5,626.27	6,180.98	5,552.09	25.01	19.95	-83.18	-342.39	733.74	624.57	582.08	42.49	14.699	
6,400.00	5,625.97	6,257.90	5,551.33	25.40	20.43	-83.14	-341.92	810.66	624.63	581.34	43.29	14.429	
6,423.08	5,625.88	6,280.98	5,551.10	25.53	20.58	-83.12	-341.78	833.73	624.65	581.10	43.55	14.345	
6,500.00	5,625.58	6,357.90	5,550.33	25.96	21.11	-83.08	-341.31	910.65	624.70	580.27	44.43	14.060	
6,523.08	5,625.49	6,380.98	5,550.11	26.10	21.27	-83.07	-341.17	933.73	624.72	580.01	44.71	13.972	
6,600.00	5,625.19	6,457.90	5,549.34	26.57	21.83	-83.03	-340.71	1,010.64	624.77	579.10	45.68	13.679	
6,623.08	5,625.10	6,480.97	5,549.11	26.72	22.00	-83.01	-340.57	1,033.72	624.79	578.81	45.98	13.589	
6,700.00	5,624.79	6,557.89	5,548.35	27.21	22.60	-82.97	-340.10	1,110.63	624.85	577.83	47.02	13.290	
6,723.08	5,624.70	6,580.97	5,548.12	27.37	22.78	-82.96	-339.96	1,133.71	624.86	577.52	47.34	13.199	
6,800.00	5,624.40	6,657.89	5,547.36	27.90	23.41	-82.92	-339.50	1,210.62	624.92	576.47	48.45	12.899	
6,823.08	5,624.31	6,680.97	5,547.13	28.07	23.60	-82.91	-339.36	1,233.70	624.94	576.15	48.79	12.809	
6,900.00	5,624.01	6,757.89	5,546.36	28.63	24.26	-82.86	-338.89	1,310.61	624.99	575.04	49.96	12.511	
6,923.08	5,623.92	6,780.97	5,546.13	28.81	24.46	-82.85	-338.75	1,333.69	625.01	574.69	50.32	12.421	
7,000.00	5,623.62	6,857.89	5,545.37	29.39	25.14	-82.81	-338.28	1,410.61	625.07	573.53	51.54	12.128	
7,023.08	5,623.52	6,880.97	5,545.14	29.58	25.35	-82.80	-338.14	1,433.69	625.09	573.17	51.92	12.040	
7,100.00	5,623.22	6,957.89	5,544.38	30.19	26.05	-82.75	-337.68	1,510.60	625.14	571.95	53.19	11.753	
7,123.08	5,623.13	6,980.97	5,544.15	30.38	26.27	-82.74	-337.54	1,533.68	625.16	571.58	53.58	11.668	
7,200.00	5,622.83	7,057.88	5,543.38	31.01	26.99	-82.70	-337.07	1,610.59	625.22	570.32	54.90	11.388	
7,223.08	5,622.74	7,080.97	5,543.15	31.21	27.21	-82.69	-336.93	1,633.67	625.24	569.93	55.30	11.305	
7,300.00	5,622.44	7,157.88	5,542.39	31.86	27.96	-82.64	-336.47	1,710.58	625.30	568.63	56.67	11.035	
7,323.08	5,622.35	7,180.97	5,542.16	32.06	28.18	-82.63	-336.33	1,733.66	625.31	568.23	57.08	10.955	
7,400.00	5,622.04	7,257.88	5,541.40	32.73	28.94	-82.59	-335.86	1,810.57	625.37	566.89	58.48	10.694	
7,423.08	5,621.95	7,280.96	5,541.17	32.94	29.17	-82.58	-335.72	1,833.65	625.39	566.48	58.91	10.616	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program:		0-MWD+IFR1+MS							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	
7,500.00	5,621.65	7,357.88	5,540.40	33.63	29.95	-82.54	-335.25	1,910.56	625.45	565.11	60.34	10.365		
7,523.08	5,621.56	7,380.96	5,540.17	33.85	30.19	-82.52	-335.11	1,933.65	625.47	564.69	60.78	10.291		
7,600.00	5,621.26	7,457.88	5,539.41	34.55	30.98	-82.48	-334.65	2,010.55	625.53	563.28	62.24	10.050		
7,623.08	5,621.17	7,480.96	5,539.18	34.77	31.22	-82.47	-334.51	2,033.64	625.55	562.86	62.69	9.978		
7,700.00	5,620.87	7,557.88	5,538.42	35.49	32.02	-82.43	-334.04	2,110.55	625.61	561.42	64.18	9.747		
7,723.09	5,620.77	7,580.96	5,538.19	35.71	32.26	-82.41	-333.90	2,133.63	625.63	560.99	64.64	9.679		
7,800.00	5,620.47	7,657.87	5,537.42	36.45	33.08	-82.37	-333.44	2,210.54	625.69	559.53	66.16	9.457		
7,823.09	5,620.38	7,680.96	5,537.19	36.68	33.32	-82.36	-333.30	2,233.62	625.70	559.08	66.62	9.392		
7,900.00	5,620.08	7,757.87	5,536.43	37.43	34.15	-82.32	-332.83	2,310.53	625.77	557.60	68.16	9.180		
7,923.09	5,619.99	7,780.96	5,536.20	37.65	34.39	-82.31	-332.69	2,333.61	625.78	557.15	68.63	9.118		
8,000.00	5,619.69	7,857.87	5,535.44	38.42	35.23	-82.26	-332.22	2,410.52	625.85	555.65	70.20	8.915		
8,023.09	5,619.60	7,880.96	5,535.21	38.65	35.48	-82.25	-332.08	2,433.61	625.86	555.19	70.67	8.856		
8,100.00	5,619.29	7,957.87	5,534.44	39.42	36.32	-82.21	-331.62	2,510.51	625.93	553.67	72.26	8.662		
8,123.09	5,619.20	7,980.95	5,534.21	39.66	36.57	-82.20	-331.48	2,533.60	625.95	553.21	72.74	8.605		
8,200.00	5,618.90	8,057.87	5,533.45	40.44	37.42	-82.15	-331.01	2,610.50	626.01	551.66	74.34	8.420		
8,223.09	5,618.81	8,080.95	5,533.22	40.68	37.68	-82.14	-330.87	2,633.59	626.03	551.20	74.83	8.366		
8,300.00	5,618.51	8,157.86	5,532.46	41.47	38.54	-82.10	-330.41	2,710.49	626.09	549.64	76.45	8.189		
8,323.09	5,618.42	8,180.95	5,532.23	41.71	38.79	-82.09	-330.27	2,733.58	626.11	549.17	76.94	8.137		
8,400.00	5,618.12	8,257.86	5,531.46	42.51	39.66	-82.05	-329.80	2,810.49	626.17	547.59	78.58	7.969		
8,423.09	5,618.02	8,280.95	5,531.23	42.76	39.92	-82.03	-329.66	2,833.57	626.19	547.12	79.07	7.919		
8,500.00	5,617.72	8,357.86	5,530.47	43.57	40.79	-81.99	-329.19	2,910.48	626.26	545.53	80.73	7.758		
8,523.09	5,617.63	8,380.95	5,530.24	43.81	41.05	-81.98	-329.05	2,933.56	626.28	545.05	81.22	7.710		
8,600.00	5,617.33	8,457.86	5,529.48	44.63	41.92	-81.94	-328.59	3,010.47	626.34	543.45	82.89	7.556		
8,700.00	5,616.94	8,558.74	5,528.86	45.70	43.07	-81.92	-327.98	3,111.34	626.37	541.27	85.10	7.360		
8,729.37	5,616.82	8,588.10	5,528.86	46.02	43.40	-81.93	-327.80	3,140.71	626.35	540.60	85.76	7.304		
8,800.00	5,616.54	8,658.73	5,528.86	46.79	44.22	-81.95	-327.37	3,211.34	626.32	538.98	87.34	7.171		
8,829.52	5,616.43	8,688.25	5,528.86	47.11	44.56	-81.96	-327.19	3,240.86	626.30	538.30	88.00	7.117		
8,900.00	5,616.15	8,758.73	5,528.86	47.87	45.37	-81.99	-326.76	3,311.34	626.26	536.67	89.59	6.990		
8,929.52	5,616.03	8,788.25	5,528.86	48.20	45.71	-82.00	-326.59	3,340.85	626.24	535.99	90.26	6.938		
9,000.00	5,615.76	8,858.73	5,528.86	48.97	46.53	-82.02	-326.16	3,411.33	626.20	534.35	91.86	6.817		
9,029.52	5,615.64	8,888.25	5,528.87	49.30	46.87	-82.03	-325.98	3,440.85	626.19	533.66	92.53	6.768		
9,100.00	5,615.37	8,958.73	5,528.87	50.08	47.69	-82.06	-325.55	3,511.33	626.15	532.02	94.13	6.652		
9,129.52	5,615.25	8,988.25	5,528.87	50.40	48.04	-82.07	-325.37	3,540.85	626.13	531.32	94.81	6.604		
9,200.00	5,614.97	9,058.73	5,528.87	51.19	48.86	-82.10	-324.95	3,611.33	626.10	529.67	96.42	6.493		
9,229.52	5,614.86	9,088.25	5,528.87	51.52	49.20	-82.11	-324.77	3,640.85	626.08	528.98	97.10	6.448		
9,300.00	5,614.58	9,158.73	5,528.87	52.30	50.03	-82.13	-324.34	3,711.33	626.04	527.32	98.72	6.341		
9,329.52	5,614.46	9,188.25	5,528.87	52.63	50.38	-82.14	-324.16	3,740.84	626.02	526.62	99.41	6.298		
9,400.00	5,614.19	9,258.73	5,528.87	53.43	51.21	-82.17	-323.73	3,811.32	625.99	524.95	101.03	6.196		
9,429.52	5,614.07	9,288.25	5,528.87	53.76	51.55	-82.18	-323.56	3,840.84	625.97	524.25	101.72	6.154		
9,500.00	5,613.79	9,358.73	5,528.87	54.55	52.39	-82.20	-323.13	3,911.32	625.93	522.58	103.35	6.056		
9,529.52	5,613.68	9,388.25	5,528.87	54.89	52.73	-82.21	-322.95	3,940.84	625.92	521.88	104.04	6.016		
9,600.00	5,613.40	9,458.73	5,528.88	55.69	53.57	-82.24	-322.52	4,011.32	625.88	520.20	105.68	5.922		
9,629.52	5,613.28	9,488.25	5,528.88	56.02	53.92	-82.25	-322.34	4,040.84	625.86	519.49	106.37	5.884		
9,700.00	5,613.01	9,558.73	5,528.88	56.83	54.75	-82.27	-321.92	4,111.31	625.83	517.81	108.02	5.794		
9,729.52	5,612.89	9,588.25	5,528.88	57.16	55.10	-82.28	-321.74	4,140.83	625.81	517.10	108.71	5.757		
9,800.00	5,612.62	9,658.73	5,528.88	57.97	55.94	-82.31	-321.31	4,211.31	625.77	515.41	110.36	5.670		
9,829.52	5,612.50	9,688.25	5,528.88	58.31	56.29	-82.32	-321.13	4,240.83	625.76	514.70	111.05	5.635		
9,900.00	5,612.22	9,758.73	5,528.88	59.12	57.13	-82.35	-320.70	4,311.31	625.72	513.01	112.71	5.552		
9,929.52	5,612.11	9,788.25	5,528.88	59.46	57.48	-82.36	-320.53	4,340.83	625.70	512.30	113.41	5.517		
10,000.00	5,611.83	9,858.73	5,528.88	60.27	58.32	-82.38	-320.10	4,411.31	625.67	510.60	115.07	5.437		
10,029.52	5,611.71	9,888.25	5,528.88	60.61	58.68	-82.39	-319.92	4,440.83	625.65	509.89	115.77	5.404		
10,100.00	5,611.44	9,958.72	5,528.89	61.42	59.52	-82.42	-319.49	4,511.30	625.61	508.18	117.43	5.327		

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: 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)			
10,129.52	5,611.32	9,988.24	5,528.89	61.76	59.87	-82.43	-319.31	4,540.82	625.60	507.47	118.13	5.296	
10,200.00	5,611.04	10,058.72	5,528.89	62.58	60.72	-82.45	-318.89	4,611.30	625.56	505.76	119.80	5.222	
10,229.52	5,610.93	10,088.24	5,528.89	62.92	61.07	-82.46	-318.71	4,640.82	625.55	505.04	120.50	5.191	
10,300.00	5,610.65	10,158.72	5,528.89	63.74	61.92	-82.49	-318.28	4,711.30	625.51	503.33	122.18	5.120	
10,329.52	5,610.53	10,188.24	5,528.89	64.09	62.27	-82.50	-318.10	4,740.82	625.50	502.62	122.88	5.090	
10,400.00	5,610.26	10,258.72	5,528.89	64.91	63.12	-82.53	-317.67	4,811.30	625.46	500.90	124.56	5.021	
10,429.52	5,610.14	10,288.24	5,528.89	65.25	63.48	-82.54	-317.50	4,840.82	625.44	500.18	125.26	4.993	
10,500.00	5,609.86	10,358.72	5,528.89	66.08	64.32	-82.56	-317.07	4,911.29	625.41	498.46	126.94	4.927	
10,529.52	5,609.75	10,388.24	5,528.89	66.42	64.68	-82.57	-316.89	4,940.81	625.39	497.74	127.65	4.899	
10,600.00	5,609.47	10,458.72	5,528.89	67.25	65.53	-82.60	-316.46	5,011.29	625.36	496.02	129.33	4.835	
10,629.52	5,609.36	10,488.24	5,528.89	67.59	65.89	-82.61	-316.28	5,040.81	625.34	495.30	130.04	4.809	
10,700.00	5,609.08	10,558.72	5,528.90	68.42	66.74	-82.63	-315.86	5,111.29	625.31	493.58	131.73	4.747	
10,729.52	5,608.96	10,588.24	5,528.90	68.77	67.09	-82.64	-315.68	5,140.81	625.29	492.85	132.44	4.721	
10,800.00	5,608.69	10,658.72	5,528.90	69.60	67.95	-82.67	-315.25	5,211.29	625.25	491.13	134.13	4.662	
10,829.52	5,608.57	10,688.24	5,528.90	69.95	68.30	-82.68	-315.07	5,240.81	625.24	490.40	134.84	4.637	
10,900.00	5,608.29	10,758.72	5,528.90	70.78	69.16	-82.70	-314.64	5,311.28	625.20	488.67	136.53	4.579	
10,929.52	5,608.18	10,788.24	5,528.90	71.13	69.51	-82.72	-314.47	5,340.80	625.19	487.95	137.24	4.555	
11,000.00	5,607.90	10,858.72	5,528.90	71.96	70.37	-82.74	-314.04	5,411.28	625.15	486.22	138.94	4.499	
11,029.52	5,607.78	10,888.24	5,528.90	72.31	70.72	-82.75	-313.86	5,440.80	625.14	485.49	139.65	4.476	
11,100.00	5,607.51	10,958.72	5,528.90	73.14	71.58	-82.78	-313.43	5,511.28	625.10	483.75	141.35	4.422	
11,129.52	5,607.39	10,988.24	5,528.90	73.49	71.94	-82.79	-313.25	5,540.80	625.09	483.03	142.06	4.400	
11,200.00	5,607.11	11,058.72	5,528.91	74.33	72.79	-82.81	-312.83	5,611.28	625.05	481.29	143.76	4.348	
11,229.52	5,607.00	11,088.24	5,528.91	74.68	73.15	-82.82	-312.65	5,640.80	625.04	480.56	144.48	4.326	
11,300.00	5,606.72	11,158.72	5,528.91	75.52	74.01	-82.85	-312.22	5,711.27	625.01	478.82	146.18	4.276	
11,329.52	5,606.61	11,188.24	5,528.91	75.87	74.37	-82.86	-312.04	5,740.79	624.99	478.09	146.90	4.255	
11,400.00	5,606.33	11,258.71	5,528.91	76.71	75.23	-82.88	-311.61	5,811.27	624.96	476.35	148.60	4.206	
11,429.52	5,606.21	11,288.24	5,528.91	77.06	75.59	-82.89	-311.43	5,840.79	624.94	475.62	149.32	4.185	
11,500.00	5,605.94	11,358.71	5,528.91	77.90	76.44	-82.92	-311.01	5,911.27	624.91	473.88	151.03	4.138	
11,529.52	5,605.82	11,388.24	5,528.91	78.25	76.80	-82.93	-310.83	5,940.79	624.89	473.15	151.74	4.118	
11,600.00	5,605.54	11,458.71	5,528.91	79.09	77.66	-82.96	-310.40	6,011.27	624.86	471.41	153.45	4.072	
11,629.52	5,605.43	11,488.24	5,528.91	79.44	78.02	-82.97	-310.22	6,040.79	624.84	470.67	154.17	4.053	
11,700.00	5,605.15	11,558.71	5,528.91	80.29	78.88	-82.99	-309.80	6,111.26	624.81	468.93	155.88	4.008	
11,729.52	5,605.03	11,588.24	5,528.92	80.64	79.24	-83.00	-309.62	6,140.79	624.80	468.19	156.60	3.990	
11,800.00	5,604.76	11,658.71	5,528.92	81.48	80.10	-83.03	-309.19	6,211.26	624.76	466.45	158.31	3.946	
11,829.52	5,604.64	11,688.23	5,528.92	81.84	80.46	-83.04	-309.01	6,240.78	624.75	465.71	159.03	3.928	
11,900.00	5,604.36	11,758.71	5,528.92	82.68	81.32	-83.06	-308.58	6,311.26	624.71	463.96	160.75	3.886	
11,929.52	5,604.25	11,788.23	5,528.92	83.04	81.68	-83.07	-308.40	6,340.78	624.70	463.23	161.47	3.869	
12,000.00	5,603.97	11,858.71	5,528.92	83.88	82.55	-83.10	-307.98	6,411.25	624.67	461.48	163.19	3.828	
12,029.52	5,603.86	11,888.23	5,528.92	84.24	82.91	-83.11	-307.80	6,440.78	624.65	460.74	163.91	3.811	
12,100.00	5,603.58	11,958.71	5,528.92	85.08	83.77	-83.14	-307.37	6,511.25	624.62	458.99	165.63	3.771	
12,129.52	5,603.46	11,988.23	5,528.92	85.44	84.13	-83.15	-307.19	6,540.78	624.60	458.26	166.35	3.755	
12,200.00	5,603.19	12,058.71	5,528.92	86.29	84.99	-83.17	-306.77	6,611.25	624.57	456.50	168.07	3.716	
12,229.52	5,603.07	12,088.23	5,528.92	86.64	85.35	-83.18	-306.59	6,640.77	624.56	455.77	168.79	3.700	
12,300.00	5,602.79	12,158.71	5,528.93	87.49	86.22	-83.21	-306.16	6,711.25	624.52	454.01	170.51	3.663	
12,329.53	5,602.68	12,188.23	5,528.93	87.85	86.58	-83.22	-305.98	6,740.77	624.51	453.28	171.23	3.647	
12,400.00	5,602.40	12,258.71	5,528.93	88.70	87.44	-83.24	-305.55	6,811.24	624.48	451.52	172.96	3.611	
12,429.53	5,602.28	12,288.23	5,528.93	89.05	87.80	-83.25	-305.37	6,840.77	624.46	450.78	173.68	3.595	
12,500.00	5,602.01	12,358.71	5,528.93	89.90	88.67	-83.28	-304.95	6,911.24	624.43	449.02	175.41	3.560	
12,529.53	5,601.89	12,388.23	5,528.93	90.26	89.03	-83.29	-304.77	6,940.77	624.42	448.29	176.13	3.545	
12,600.00	5,601.61	12,458.71	5,528.93	91.11	89.90	-83.32	-304.34	7,011.24	624.38	446.53	177.86	3.511	
12,629.53	5,601.50	12,488.23	5,528.93	91.47	90.26	-83.33	-304.16	7,040.76	624.37	445.79	178.58	3.496	
12,700.00	5,601.22	12,558.70	5,528.93	92.32	91.12	-83.35	-303.74	7,111.24	624.34	444.03	180.31	3.463	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,729.53	5,601.11	12,588.23	5,528.93	92.68	91.49	-83.36	-303.56	7,140.76	624.32	443.29	181.03	3.449	
12,800.00	5,600.83	12,658.70	5,528.94	93.53	92.35	-83.39	-303.13	7,211.23	624.29	441.53	182.76	3.416	
12,829.53	5,600.71	12,688.23	5,528.94	93.89	92.71	-83.40	-302.95	7,240.76	624.28	440.79	183.49	3.402	
12,900.00	5,600.44	12,758.70	5,528.94	94.74	93.58	-83.42	-302.52	7,311.23	624.25	439.03	185.22	3.370	
12,929.53	5,600.32	12,788.23	5,528.94	95.10	93.94	-83.43	-302.34	7,340.76	624.23	438.29	185.94	3.357	
13,000.00	5,600.04	12,858.70	5,528.94	95.95	94.81	-83.46	-301.92	7,411.23	624.20	436.53	187.67	3.326	
13,029.53	5,599.93	12,888.23	5,528.94	96.31	95.17	-83.47	-301.74	7,440.75	624.19	435.79	188.40	3.313	
13,100.00	5,599.65	12,958.70	5,528.94	97.16	96.04	-83.50	-301.31	7,511.23	624.16	434.03	190.13	3.283	
13,129.53	5,599.53	12,988.23	5,528.94	97.52	96.40	-83.51	-301.13	7,540.75	624.14	433.29	190.86	3.270	
13,200.00	5,599.26	13,058.70	5,528.94	98.38	97.27	-83.53	-300.71	7,611.22	624.11	431.52	192.59	3.241	
13,229.53	5,599.14	13,088.23	5,528.94	98.74	97.63	-83.54	-300.53	7,640.75	624.10	430.78	193.32	3.228	
13,300.00	5,598.86	13,158.70	5,528.94	99.59	98.50	-83.57	-300.10	7,711.22	624.07	429.02	195.05	3.199	
13,329.53	5,598.75	13,188.23	5,528.94	99.95	98.86	-83.58	-299.92	7,740.75	624.05	428.27	195.78	3.188	
13,400.00	5,598.47	13,258.70	5,528.95	100.81	99.73	-83.60	-299.49	7,811.22	624.02	426.51	197.52	3.159	
13,429.53	5,598.36	13,288.23	5,528.95	101.17	100.09	-83.61	-299.31	7,840.75	624.01	425.77	198.24	3.148	
13,500.00	5,598.08	13,358.70	5,528.95	102.02	100.96	-83.64	-298.89	7,911.22	623.98	424.00	199.98	3.120	
13,529.53	5,597.96	13,388.23	5,528.95	102.38	101.33	-83.65	-298.71	7,940.74	623.97	423.26	200.71	3.109	
13,600.00	5,597.69	13,458.70	5,528.95	103.24	102.19	-83.68	-298.28	8,011.21	623.94	421.49	202.44	3.082	
13,629.53	5,597.57	13,488.23	5,528.95	103.60	102.56	-83.69	-298.10	8,040.74	623.92	420.75	203.17	3.071	
13,700.00	5,597.29	13,558.70	5,528.95	104.46	103.43	-83.71	-297.67	8,111.21	623.89	418.98	204.91	3.045	
13,729.53	5,597.18	13,588.23	5,528.95	104.82	103.79	-83.72	-297.50	8,140.74	623.88	418.24	205.64	3.034	
13,800.00	5,596.90	13,658.70	5,528.95	105.68	104.66	-83.75	-297.07	8,211.21	623.85	416.47	207.38	3.008	
13,829.53	5,596.78	13,688.22	5,528.95	106.04	105.02	-83.76	-296.89	8,240.74	623.84	415.73	208.11	2.998	
13,900.00	5,596.51	13,758.70	5,528.96	106.90	105.89	-83.78	-296.46	8,311.21	623.81	413.96	209.85	2.973	
13,929.53	5,596.39	13,788.22	5,528.96	107.26	106.26	-83.79	-296.28	8,340.73	623.79	413.21	210.58	2.962	
14,000.00	5,596.11	13,858.69	5,528.96	108.12	107.13	-83.82	-295.86	8,411.20	623.76	411.44	212.32	2.938	
14,029.53	5,596.00	13,888.22	5,528.96	108.48	107.49	-83.83	-295.68	8,440.73	623.75	410.70	213.05	2.928	
14,100.00	5,595.72	13,958.69	5,528.96	109.34	108.36	-83.86	-295.25	8,511.20	623.72	408.93	214.79	2.904	
14,129.53	5,595.61	13,988.22	5,528.96	109.70	108.72	-83.87	-295.07	8,540.73	623.71	408.19	215.52	2.894	
14,200.00	5,595.33	14,058.69	5,528.96	110.56	109.59	-83.89	-294.64	8,611.20	623.68	406.42	217.26	2.871	
14,229.53	5,595.21	14,088.22	5,528.96	110.92	109.96	-83.90	-294.47	8,640.73	623.67	405.67	217.99	2.861	
14,300.00	5,594.94	14,158.69	5,528.96	111.78	110.83	-83.93	-294.04	8,711.19	623.64	403.90	219.74	2.838	
14,329.53	5,594.82	14,188.22	5,528.96	112.14	111.19	-83.94	-293.86	8,740.72	623.62	403.16	220.47	2.829	
14,400.00	5,594.54	14,258.69	5,528.96	113.00	112.06	-83.96	-293.43	8,811.19	623.59	401.38	222.21	2.806	
14,429.53	5,594.43	14,288.22	5,528.97	113.36	112.43	-83.97	-293.25	8,840.72	623.58	400.64	222.94	2.797	
14,500.00	5,594.15	14,358.69	5,528.97	114.23	113.30	-84.00	-292.83	8,911.19	623.55	398.87	224.69	2.775	
14,529.53	5,594.03	14,388.22	5,528.97	114.59	113.66	-84.01	-292.65	8,940.72	623.54	398.12	225.42	2.766	
14,600.00	5,593.76	14,458.69	5,528.97	115.45	114.54	-84.04	-292.22	9,011.19	623.51	396.35	227.16	2.745	
14,629.53	5,593.64	14,488.22	5,528.97	115.81	114.90	-84.05	-292.04	9,040.72	623.50	395.60	227.89	2.736	
14,700.00	5,593.36	14,558.69	5,528.97	116.67	115.77	-84.07	-291.61	9,111.18	623.47	393.83	229.64	2.715	
14,729.53	5,593.25	14,588.22	5,528.97	117.04	116.14	-84.08	-291.44	9,140.71	623.46	393.09	230.37	2.706	
14,800.00	5,592.97	14,658.69	5,528.97	117.90	117.01	-84.11	-291.01	9,211.18	623.43	391.31	232.12	2.686	
14,829.53	5,592.86	14,688.22	5,528.97	118.26	117.37	-84.12	-290.83	9,240.71	623.42	390.57	232.85	2.677	
14,900.00	5,592.58	14,758.69	5,528.97	119.12	118.24	-84.14	-290.40	9,311.18	623.39	388.79	234.60	2.657	
14,929.53	5,592.46	14,788.22	5,528.97	119.49	118.61	-84.15	-290.22	9,340.71	623.38	388.05	235.33	2.649	
15,000.00	5,592.19	14,858.69	5,528.98	120.35	119.48	-84.18	-289.80	9,411.18	623.35	386.27	237.08	2.629	
15,029.53	5,592.07	14,888.22	5,528.98	120.71	119.85	-84.19	-289.62	9,440.71	623.34	385.53	237.81	2.621	
15,100.00	5,591.79	14,958.69	5,528.98	121.58	120.72	-84.22	-289.19	9,511.17	623.31	383.75	239.56	2.602	
15,129.53	5,591.68	14,988.22	5,528.98	121.94	121.08	-84.23	-288.01	9,540.71	623.30	383.00	240.29	2.594	
15,200.00	5,591.40	15,058.69	5,528.98	122.80	121.96	-84.25	-288.58	9,611.17	623.27	381.23	242.04	2.575	
15,229.53	5,591.28	15,088.22	5,528.98	123.17	122.32	-84.26	-288.41	9,640.70	623.26	380.48	242.77	2.567	
15,300.00	5,591.01	15,158.68	5,528.98	124.03	123.19	-84.29	-287.98	9,711.17	623.23	378.71	244.52	2.549	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1											<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD+IFR1+MS											<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>Rule Assigned:</b>	<b>Distance</b>	<b>Minimum</b>	<b>Separation</b>	<b>Warning</b>			
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference</b>	<b>Offset</b>	<b>Reference</b>	<b>Offset</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Separation (usft)</b>	<b>Factor</b>			
15,329.53	5,590.89	15,188.22	5,528.98	124.39	123.56	-84.30	-287.80	9,740.70	623.22	377.96	245.26	2.541
15,400.00	5,590.61	15,258.68	5,528.98	125.26	124.43	-84.32	-287.37	9,811.17	623.19	376.18	247.01	2.523
15,429.53	5,590.50	15,288.22	5,528.98	125.62	124.80	-84.34	-287.19	9,840.70	623.18	375.44	247.74	2.515
15,500.00	5,590.22	15,358.68	5,528.99	126.49	125.67	-84.36	-286.77	9,911.16	623.15	373.66	249.49	2.498
15,529.53	5,590.11	15,388.22	5,528.99	126.85	126.04	-84.37	-286.59	9,940.70	623.14	372.91	250.22	2.490
15,600.00	5,589.83	15,458.68	5,528.99	127.72	126.91	-84.40	-286.16	10,011.16	623.11	371.14	251.97	2.473
15,629.53	5,589.71	15,488.22	5,528.99	128.08	127.27	-84.41	-285.98	10,040.69	623.10	370.39	252.71	2.466
15,700.00	5,589.44	15,558.68	5,528.99	128.94	128.15	-84.43	-285.55	10,111.16	623.07	368.61	254.46	2.449
15,729.54	5,589.32	15,588.22	5,528.99	129.31	128.51	-84.44	-285.38	10,140.69	623.06	367.87	255.19	2.442
15,800.00	5,589.04	15,658.68	5,528.99	130.17	129.39	-84.47	-284.95	10,211.16	623.03	366.09	256.95	2.425
15,829.54	5,588.93	15,688.22	5,528.99	130.54	129.75	-84.48	-284.77	10,240.69	623.02	365.34	257.68	2.418
15,900.00	5,588.65	15,758.68	5,528.99	131.40	130.62	-84.51	-284.34	10,311.15	623.00	363.56	259.43	2.401
15,929.54	5,588.53	15,788.22	5,528.99	131.77	130.99	-84.52	-284.16	10,340.69	622.98	362.82	260.17	2.395
16,000.00	5,588.26	15,858.68	5,528.99	132.63	131.86	-84.54	-283.74	10,411.15	622.96	361.04	261.92	2.378
16,029.54	5,588.14	15,888.21	5,528.99	133.00	132.23	-84.55	-283.56	10,440.69	622.95	360.29	262.65	2.372
16,100.00	5,587.86	15,958.68	5,529.00	133.86	133.10	-84.58	-283.13	10,511.15	622.92	358.51	264.41	2.356
16,129.54	5,587.75	15,988.21	5,529.00	134.23	133.47	-84.59	-282.95	10,540.68	622.91	357.77	265.14	2.349
16,200.00	5,587.47	16,058.68	5,529.00	135.09	134.34	-84.61	-282.52	10,611.15	622.88	355.99	266.90	2.334
16,229.54	5,587.36	16,088.21	5,529.00	135.46	134.71	-84.62	-282.34	10,640.68	622.87	355.24	267.63	2.327
16,300.00	5,587.08	16,158.68	5,529.00	136.33	135.58	-84.65	-281.92	10,711.14	622.85	353.46	269.38	2.312
16,313.04	5,587.03	16,171.71	5,529.00	136.49	135.74	-84.65	-281.84	10,724.18	622.84	353.13	269.71	2.309
16,314.34	5,587.02	16,173.01	5,529.00	136.50	135.76	-84.65	-281.83	10,725.48	622.84	353.10	269.74	2.309
16,319.94	5,587.00	16,173.23	5,529.00	136.57	135.76	-84.65	-281.83	10,725.70	622.86	353.10	269.76	2.309 SF

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-1.14	55.74	-1.11	55.75				
100.00	100.00	100.00	100.00	0.88	0.88	-1.14	55.74	-1.11	55.75	53.99	1.77	31.540	
200.00	200.00	200.00	200.00	1.50	1.50	-1.14	55.74	-1.11	55.75	52.75	3.00	18.559	
300.00	300.00	300.00	300.00	1.94	1.94	-1.14	55.74	-1.11	55.75	51.88	3.87	14.406	
400.00	400.00	400.00	400.00	2.29	2.29	-1.14	55.74	-1.11	55.75	51.17	4.58	12.171	
500.00	500.00	500.00	500.00	2.60	2.60	-1.14	55.74	-1.11	55.75	50.55	5.20	10.721	CC, ES
600.00	600.00	598.58	598.56	2.88	3.04	-2.32	56.94	-2.31	57.00	51.16	5.84	9.754	
700.00	699.98	697.18	697.03	3.23	3.28	163.37	60.48	-5.87	62.29	55.89	6.40	9.731	
800.00	799.88	796.72	796.38	3.57	3.57	161.17	64.83	-10.25	71.47	64.47	7.00	10.213	
900.00	899.58	895.97	895.44	3.91	3.86	160.18	69.16	-14.62	83.58	75.98	7.60	10.994	
1,000.00	999.01	994.84	994.12	4.26	4.17	160.03	73.48	-18.97	98.54	90.32	8.22	11.993	
1,100.00	1,098.06	1,093.24	1,092.32	4.64	4.48	160.40	77.78	-23.30	116.34	107.50	8.84	13.156	
1,200.00	1,196.65	1,191.07	1,189.97	5.02	4.80	161.06	82.06	-27.61	136.98	127.49	9.48	14.446	
1,279.87	1,275.00	1,268.74	1,267.49	5.29	5.05	161.69	85.45	-31.02	155.51	145.55	9.95	15.625	
1,300.00	1,294.69	1,288.25	1,286.96	5.34	5.11	161.88	86.30	-31.88	160.40	150.35	10.05	15.955	
1,400.00	1,392.54	1,385.21	1,383.74	5.70	5.43	162.65	90.54	-36.15	184.76	174.10	10.66	17.328	
1,500.00	1,490.40	1,482.17	1,480.51	6.08	5.76	163.25	94.78	-40.42	209.15	197.86	11.29	18.531	
1,600.00	1,588.25	1,579.14	1,577.29	6.47	6.08	163.73	99.02	-44.68	233.55	221.63	11.92	19.590	
1,700.00	1,686.10	1,676.10	1,674.06	6.86	6.41	164.11	103.25	-48.95	257.97	245.40	12.57	20.526	
1,800.00	1,783.95	1,773.06	1,770.83	7.27	6.74	164.43	107.49	-53.22	282.39	269.17	13.22	21.357	
1,900.00	1,881.80	1,870.02	1,867.61	7.69	7.07	164.69	111.73	-57.48	306.82	292.94	13.88	22.099	
2,000.00	1,979.65	1,966.98	1,964.38	8.11	7.41	164.92	115.96	-61.75	331.26	316.71	14.55	22.765	
2,100.00	2,077.51	2,063.94	2,061.16	8.54	7.74	165.12	120.20	-66.01	355.70	340.47	15.22	23.364	
2,200.00	2,175.36	2,160.90	2,157.93	8.97	8.08	165.29	124.44	-70.28	380.14	364.24	15.90	23.906	
2,300.00	2,273.21	2,257.86	2,254.71	9.40	8.41	165.44	128.67	-74.55	404.59	388.01	16.58	24.399	
2,400.00	2,371.06	2,354.82	2,351.48	9.84	8.75	165.57	132.91	-78.81	429.04	411.77	17.27	24.848	
2,500.00	2,468.91	2,451.78	2,448.25	10.29	9.09	165.69	137.15	-83.08	453.49	435.53	17.95	25.258	
2,600.00	2,566.76	2,548.74	2,545.03	10.73	9.43	165.80	141.38	-87.35	477.94	459.30	18.64	25.635	
2,700.00	2,664.62	2,645.70	2,641.80	11.18	9.77	165.89	145.62	-91.61	502.39	483.06	19.34	25.982	
2,800.00	2,762.47	2,742.66	2,738.58	11.63	10.11	165.98	149.86	-95.88	526.85	506.82	20.03	26.302	
2,900.00	2,860.32	2,839.62	2,835.35	12.08	10.45	166.06	154.10	-100.15	551.30	530.58	20.73	26.599	
3,000.00	2,958.17	2,936.59	2,932.12	12.53	10.79	166.13	158.33	-104.41	575.76	554.34	21.42	26.875	
3,100.00	3,056.02	3,033.55	3,028.90	12.99	11.13	166.20	162.57	-108.68	600.22	578.10	22.12	27.131	
3,200.00	3,153.87	3,130.51	3,125.67	13.44	11.47	166.26	166.81	-112.95	624.68	601.85	22.82	27.370	
3,300.00	3,251.73	3,227.47	3,222.45	13.90	11.81	166.32	171.04	-117.21	649.14	625.61	23.52	27.594	
3,400.00	3,349.58	3,324.43	3,319.22	14.36	12.15	166.37	175.28	-121.48	673.60	649.37	24.23	27.803	
3,500.00	3,447.43	3,421.39	3,415.99	14.82	12.50	166.42	179.52	-125.74	698.06	673.12	24.93	28.000	
3,600.00	3,545.28	3,518.35	3,512.77	15.28	12.84	166.47	183.75	-130.01	722.52	696.88	25.63	28.185	
3,700.00	3,643.13	3,615.31	3,609.54	15.74	13.18	166.51	187.99	-134.28	746.98	720.64	26.34	28.359	
3,800.00	3,740.98	3,712.27	3,706.32	16.20	13.52	166.55	192.23	-138.54	771.44	744.39	27.05	28.523	
3,900.00	3,838.84	3,809.23	3,803.09	16.67	13.87	166.59	196.46	-142.81	795.90	768.15	27.75	28.679	
4,000.00	3,936.69	3,906.19	3,899.87	17.13	14.21	166.62	200.70	-147.08	820.36	791.90	28.46	28.825	
4,100.00	4,034.54	4,003.15	3,996.64	17.59	14.55	166.66	204.94	-151.34	844.82	815.66	29.17	28.965	
4,200.00	4,132.39	4,100.11	4,093.41	18.06	14.90	166.69	209.18	-155.61	869.29	839.41	29.88	29.097	
4,300.00	4,230.24	4,197.08	4,190.19	18.52	15.24	166.72	213.41	-159.88	893.75	863.16	30.58	29.222	
4,400.00	4,328.09	4,294.04	4,286.96	18.99	15.59	166.75	217.65	-164.14	918.21	886.92	31.29	29.342	
4,500.00	4,425.95	4,391.00	4,383.74	19.45	15.93	166.77	221.89	-168.41	942.67	910.67	32.00	29.456	
4,600.00	4,523.80	4,487.96	4,480.51	19.92	16.27	166.80	226.12	-172.68	967.14	934.42	32.71	29.564	
4,700.00	4,621.65	4,584.92	4,577.28	20.39	16.62	166.82	230.36	-176.94	991.60	958.18	33.42	29.667	
4,800.00	4,719.50	4,681.88	4,674.06	20.85	16.96	166.84	234.60	-181.21	1,016.07	981.93	34.13	29.766	
4,900.00	4,817.35	4,778.84	4,770.83	21.32	17.30	166.87	238.83	-185.47	1,040.53	1,005.69	34.83	29.870	
4,980.47	4,896.09	4,858.39	4,850.26	21.69	17.49	167.12	242.34	-184.71	1,060.16	1,024.74	35.41	29.938	

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



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1												Offset Site Error:
												0.00 usft
												Offset Well Error:
												0.00 usft
Survey Program:	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	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
5,000.00	4,915.21	4,877.53	4,869.32	21.78	17.48	175.05	243.19	-183.21	1,064.91	1,029.39	35.53	29.976
5,050.00	4,964.16	4,926.29	4,917.64	21.99	17.44	-164.62	245.35	-177.09	1,077.12	1,041.32	35.80	30.088
5,100.00	5,012.92	4,974.73	4,965.11	22.19	17.37	-147.16	247.50	-167.76	1,089.30	1,053.26	36.04	30.226
5,150.00	5,061.26	5,022.90	5,011.59	22.36	17.29	-133.87	249.62	-155.33	1,101.40	1,065.16	36.25	30.385
5,200.00	5,108.93	5,070.82	5,056.90	22.50	17.20	-124.09	251.72	-139.88	1,113.36	1,076.94	36.42	30.566
5,250.00	5,155.72	5,118.53	5,100.87	22.61	17.11	-116.80	253.77	-121.52	1,125.11	1,088.54	36.57	30.764
5,300.00	5,201.38	5,166.05	5,143.37	22.70	17.02	-111.19	255.77	-100.36	1,136.60	1,099.90	36.70	30.972
5,350.00	5,245.69	5,213.42	5,184.24	22.77	16.93	-106.74	257.71	-76.51	1,147.76	1,110.95	36.81	31.184
5,400.00	5,288.45	5,260.66	5,223.34	22.83	16.85	-103.12	259.60	-50.09	1,158.54	1,121.64	36.91	31.392
5,450.00	5,329.44	5,307.78	5,260.53	22.88	16.78	-100.11	261.41	-21.21	1,168.89	1,131.89	37.00	31.592
5,500.00	5,368.46	5,354.82	5,295.67	22.93	16.71	-97.56	263.15	9.99	1,178.74	1,141.65	37.09	31.777
5,550.00	5,405.32	5,401.78	5,328.64	22.98	16.67	-95.39	264.81	43.38	1,188.06	1,150.87	37.19	31.942
5,600.00	5,439.85	5,448.69	5,359.32	23.02	16.63	-93.51	266.38	78.82	1,196.80	1,159.50	37.31	32.080
5,650.00	5,471.87	5,495.54	5,387.59	23.07	16.62	-91.89	267.85	116.15	1,204.91	1,167.48	37.44	32.187
5,700.00	5,501.23	5,542.36	5,413.34	23.13	16.62	-90.49	269.23	155.22	1,212.36	1,174.78	37.59	32.256
5,750.00	5,527.78	5,589.15	5,436.47	23.20	16.64	-89.28	270.49	195.86	1,219.10	1,181.34	37.76	32.286
5,800.00	5,551.41	5,635.91	5,456.88	23.27	16.69	-88.24	271.65	237.90	1,225.11	1,187.15	37.96	32.271
5,850.00	5,571.98	5,682.65	5,474.51	23.36	16.75	-87.37	272.69	281.16	1,230.36	1,192.16	38.20	32.210
5,900.00	5,589.40	5,729.36	5,489.27	23.47	16.85	-86.64	273.61	325.46	1,234.81	1,196.35	38.47	32.102
5,950.00	5,603.59	5,776.04	5,501.11	23.59	16.96	-86.05	274.41	370.60	1,238.46	1,199.69	38.77	31.946
6,000.00	5,614.47	5,822.69	5,509.98	23.73	17.10	-85.60	275.08	416.39	1,241.27	1,202.17	39.10	31.743
6,050.00	5,622.00	5,869.31	5,515.85	23.88	17.27	-85.27	275.63	462.62	1,243.25	1,203.77	39.47	31.496
6,100.00	5,626.14	5,915.88	5,518.70	24.05	17.45	-85.08	276.04	509.10	1,244.37	1,204.49	39.87	31.208
6,108.37	5,626.50	5,923.68	5,518.88	24.08	17.48	-85.06	276.09	516.89	1,244.47	1,204.53	39.94	31.155
6,138.45	5,627.00	5,952.80	5,519.00	24.19	17.61	-85.02	276.28	546.02	1,244.64	1,204.43	40.21	30.955
6,200.00	5,626.76	6,014.35	5,519.00	24.44	17.91	-85.03	276.65	607.56	1,244.62	1,203.82	40.80	30.506
6,211.68	5,626.71	6,026.03	5,519.00	24.49	17.97	-85.04	276.73	619.24	1,244.62	1,203.69	40.92	30.413
6,300.00	5,626.37	6,114.35	5,519.00	24.89	18.45	-85.05	277.27	707.56	1,244.59	1,202.72	41.88	29.720
6,319.49	5,626.29	6,133.84	5,519.00	24.99	18.56	-85.05	277.39	727.05	1,244.59	1,202.48	42.11	29.557
6,400.00	5,625.97	6,214.35	5,519.00	25.40	19.05	-85.07	277.88	807.56	1,244.57	1,201.49	43.07	28.895
6,419.49	5,625.90	6,233.84	5,519.00	25.51	19.18	-85.07	278.00	827.04	1,244.56	1,201.24	43.32	28.727
6,500.00	5,625.58	6,314.35	5,519.00	25.96	19.73	-85.09	278.49	907.55	1,244.54	1,200.17	44.37	28.047
6,519.49	5,625.50	6,333.83	5,519.00	26.08	19.87	-85.09	278.61	927.04	1,244.53	1,199.89	44.64	27.876
6,600.00	5,625.19	6,414.35	5,519.00	26.57	20.46	-85.11	279.11	1,007.55	1,244.51	1,198.74	45.77	27.189
6,619.49	5,625.11	6,433.83	5,519.00	26.69	20.61	-85.11	279.23	1,027.04	1,244.51	1,198.45	46.06	27.019
6,700.00	5,624.79	6,514.34	5,519.00	27.21	21.24	-85.12	279.72	1,107.55	1,244.49	1,197.23	47.26	26.333
6,719.49	5,624.72	6,533.83	5,519.00	27.35	21.40	-85.13	279.84	1,127.04	1,244.48	1,196.92	47.56	26.164
6,800.00	5,624.40	6,614.34	5,519.00	27.90	22.08	-85.14	280.33	1,207.55	1,244.46	1,195.63	48.83	25.487
6,819.49	5,624.32	6,633.83	5,519.00	28.05	22.24	-85.14	280.45	1,227.03	1,244.45	1,195.31	49.15	25.321
6,900.00	5,624.01	6,714.34	5,519.00	28.63	22.95	-85.16	280.94	1,307.54	1,244.43	1,193.96	50.47	24.658
6,919.49	5,623.93	6,733.83	5,519.00	28.78	23.13	-85.16	281.06	1,327.03	1,244.43	1,193.63	50.80	24.496
7,000.00	5,623.62	6,814.34	5,519.00	29.39	23.86	-85.18	281.56	1,407.54	1,244.41	1,192.23	52.18	23.850
7,019.49	5,623.54	6,833.83	5,519.00	29.55	24.05	-85.18	281.68	1,427.03	1,244.40	1,191.88	52.52	23.694
7,100.00	5,623.22	6,914.34	5,519.00	30.19	24.81	-85.20	282.17	1,507.54	1,244.38	1,190.44	53.94	23.069
7,119.49	5,623.15	6,933.83	5,519.00	30.35	25.00	-85.20	282.29	1,527.03	1,244.37	1,190.08	54.30	22.918
7,200.00	5,622.83	7,014.34	5,519.00	31.01	25.78	-85.21	282.78	1,607.54	1,244.35	1,188.59	55.76	22.315
7,219.49	5,622.75	7,033.83	5,519.00	31.17	25.98	-85.22	282.90	1,627.02	1,244.35	1,188.22	56.13	22.170
7,300.00	5,622.44	7,114.34	5,519.00	31.86	26.78	-85.23	283.40	1,707.53	1,244.33	1,186.69	57.63	21.590
7,319.49	5,622.36	7,133.83	5,519.00	32.03	26.98	-85.24	283.52	1,727.02	1,244.32	1,186.31	58.01	21.451
7,400.00	5,622.04	7,214.34	5,519.00	32.73	27.80	-85.25	284.01	1,807.53	1,244.30	1,184.75	59.55	20.895
7,419.49	5,621.97	7,233.83	5,519.00	32.91	28.00	-85.25	284.13	1,827.02	1,244.30	1,184.37	59.93	20.762
7,500.00	5,621.65	7,314.34	5,519.00	33.63	28.84	-85.27	284.62	1,907.53	1,244.28	1,182.77	61.51	20.230

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



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: 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)			
7,519.49	5,621.57	7,333.83	5,519.00	33.81	29.05	-85.27	284.74	1,927.02	1,244.27	1,182.38	61.90	20.103	
7,600.00	5,621.26	7,414.34	5,519.00	34.55	29.90	-85.29	285.24	2,007.52	1,244.25	1,180.75	63.50	19.594	
7,619.49	5,621.18	7,433.83	5,519.00	34.74	30.11	-85.29	285.36	2,027.01	1,244.25	1,180.35	63.90	19.473	
7,700.00	5,620.87	7,514.34	5,519.00	35.49	30.98	-85.30	285.85	2,107.52	1,244.22	1,178.70	65.53	18.988	
7,719.49	5,620.79	7,533.83	5,519.00	35.68	31.19	-85.31	285.97	2,127.01	1,244.22	1,178.29	65.93	18.872	
7,800.00	5,620.47	7,614.34	5,519.00	36.45	32.07	-85.32	286.46	2,207.52	1,244.20	1,176.61	67.59	18.409	
7,819.49	5,620.40	7,633.82	5,519.00	36.64	32.28	-85.33	286.58	2,227.01	1,244.19	1,176.20	67.99	18.299	
7,900.00	5,620.08	7,714.34	5,519.00	37.43	33.17	-85.34	287.08	2,307.52	1,244.17	1,174.50	69.67	17.857	
7,919.49	5,620.00	7,733.82	5,519.00	37.62	33.38	-85.34	287.19	2,327.00	1,244.17	1,174.08	70.08	17.752	
8,000.00	5,619.69	7,814.33	5,519.00	38.42	34.28	-85.36	287.69	2,407.51	1,244.15	1,172.36	71.79	17.331	
8,019.49	5,619.61	7,833.82	5,519.00	38.61	34.50	-85.36	287.81	2,427.00	1,244.14	1,171.94	72.20	17.231	
8,100.00	5,619.29	7,914.33	5,519.00	39.42	35.40	-85.38	288.30	2,507.51	1,244.12	1,170.20	73.92	16.830	
8,119.49	5,619.22	7,933.82	5,519.00	39.62	35.62	-85.38	288.42	2,527.00	1,244.12	1,169.78	74.34	16.735	
8,200.00	5,618.90	8,014.33	5,519.00	40.44	36.53	-85.39	288.91	2,607.51	1,244.10	1,168.02	76.08	16.353	
8,229.49	5,618.79	8,043.82	5,519.00	40.74	36.87	-85.40	289.09	2,637.00	1,244.09	1,167.37	76.72	16.216	
8,300.00	5,618.51	8,114.33	5,519.00	41.47	37.67	-85.41	289.53	2,707.51	1,244.07	1,165.82	78.26	15.897	
8,329.49	5,618.39	8,143.82	5,519.00	41.78	38.01	-85.42	289.71	2,736.99	1,244.07	1,165.16	78.91	15.767	
8,400.00	5,618.12	8,214.33	5,519.00	42.51	38.81	-85.43	290.14	2,807.50	1,244.05	1,163.60	80.45	15.463	
8,429.49	5,618.00	8,243.82	5,519.00	42.82	39.15	-85.44	290.32	2,836.99	1,244.04	1,162.94	81.11	15.338	
8,500.00	5,617.72	8,314.33	5,519.00	43.57	39.97	-85.45	290.75	2,907.50	1,244.03	1,161.36	82.67	15.049	
8,529.49	5,617.61	8,343.82	5,519.00	43.88	40.31	-85.45	290.93	2,936.99	1,244.02	1,160.69	83.32	14.930	
8,600.00	5,617.33	8,414.33	5,519.00	44.63	41.12	-85.47	291.37	3,007.50	1,244.00	1,159.10	84.90	14.653	
8,629.49	5,617.21	8,443.82	5,519.00	44.95	41.47	-85.47	291.55	3,036.99	1,243.99	1,158.44	85.56	14.540	
8,691.82	5,616.97	8,505.85	5,518.99	45.62	42.19	-85.48	291.93	3,099.01	1,243.98	1,157.03	86.95	14.307	
8,700.00	5,616.94	8,513.82	5,518.95	45.70	42.28	-85.48	291.98	3,106.98	1,243.98	1,156.85	87.13	14.277	
8,723.24	5,616.85	8,537.06	5,518.83	45.96	42.55	-85.48	292.12	3,130.22	1,243.98	1,156.33	87.65	14.192	
8,800.00	5,616.54	8,613.82	5,518.43	46.79	43.45	-85.48	292.59	3,206.98	1,244.00	1,154.62	89.38	13.918	
8,823.24	5,616.45	8,637.06	5,518.30	47.04	43.72	-85.47	292.73	3,230.22	1,244.00	1,154.09	89.91	13.836	
8,900.00	5,616.15	8,713.82	5,517.90	47.87	44.62	-85.47	293.20	3,306.97	1,244.02	1,152.37	91.65	13.574	
8,923.24	5,616.06	8,737.06	5,517.78	48.13	44.89	-85.47	293.34	3,330.22	1,244.02	1,151.84	92.18	13.496	
9,000.00	5,615.76	8,813.81	5,517.38	48.97	45.80	-85.46	293.82	3,406.97	1,244.03	1,150.11	93.92	13.245	
9,023.24	5,615.67	8,837.06	5,517.25	49.23	46.07	-85.46	293.96	3,430.21	1,244.04	1,149.58	94.45	13.171	
9,100.00	5,615.37	8,913.81	5,516.85	50.08	46.98	-85.46	294.43	3,506.97	1,244.05	1,147.84	96.21	12.931	
9,123.24	5,615.27	8,937.06	5,516.73	50.33	47.25	-85.46	294.57	3,530.21	1,244.05	1,147.31	96.74	12.859	
9,200.00	5,614.97	9,013.81	5,516.33	51.19	48.16	-85.45	295.04	3,606.96	1,244.07	1,145.56	98.51	12.629	
9,223.24	5,614.88	9,037.06	5,516.20	51.45	48.44	-85.45	295.18	3,630.21	1,244.07	1,145.03	99.04	12.561	
9,300.00	5,614.58	9,113.81	5,515.80	52.30	49.35	-85.45	295.65	3,706.96	1,244.08	1,143.27	100.81	12.340	
9,323.24	5,614.49	9,137.06	5,515.68	52.56	49.63	-85.44	295.80	3,730.20	1,244.09	1,142.74	101.35	12.275	
9,400.00	5,614.19	9,213.81	5,515.28	53.43	50.54	-85.44	296.27	3,806.96	1,244.10	1,140.97	103.13	12.064	
9,423.24	5,614.10	9,237.06	5,515.15	53.69	50.82	-85.44	296.41	3,830.20	1,244.11	1,140.44	103.67	12.001	
9,500.00	5,613.79	9,313.81	5,514.75	54.55	51.74	-85.43	296.88	3,906.95	1,244.12	1,138.67	105.45	11.798	
9,523.24	5,613.70	9,337.06	5,514.63	54.82	52.02	-85.43	297.02	3,930.20	1,244.12	1,138.13	105.99	11.738	
9,600.00	5,613.40	9,413.81	5,514.23	55.69	52.93	-85.43	297.49	4,006.95	1,244.14	1,136.35	107.78	11.543	
9,623.24	5,613.31	9,437.06	5,514.10	55.95	53.21	-85.43	297.64	4,030.19	1,244.14	1,135.81	108.33	11.485	
9,700.00	5,613.01	9,513.81	5,513.70	56.83	54.13	-85.42	298.11	4,106.95	1,244.15	1,134.03	110.12	11.298	
9,723.24	5,612.92	9,537.06	5,513.58	57.09	54.41	-85.42	298.25	4,130.19	1,244.16	1,133.49	110.67	11.242	
9,800.00	5,612.62	9,613.81	5,513.18	57.97	55.34	-85.42	298.72	4,206.94	1,244.17	1,131.70	112.47	11.063	
9,823.24	5,612.52	9,637.06	5,513.05	58.24	55.61	-85.41	298.86	4,230.19	1,244.17	1,131.16	113.01	11.009	
9,900.00	5,612.22	9,713.81	5,512.65	59.12	56.54	-85.41	299.33	4,306.94	1,244.19	1,129.37	114.82	10.836	
9,923.24	5,612.13	9,737.06	5,512.53	59.38	56.82	-85.41	299.47	4,330.18	1,244.19	1,128.83	115.36	10.785	
10,000.00	5,611.83	9,813.81	5,512.13	60.27	57.74	-85.40	299.95	4,406.94	1,244.20	1,127.03	117.17	10.619	
10,023.24	5,611.74	9,837.06	5,512.00	60.54	58.03	-85.40	300.09	4,430.18	1,244.21	1,126.49	117.72	10.569	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1													Offset Site Error:
													0.00 usft
													Offset Well Error:
													0.00 usft
Survey Program:	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	5,611.44	9,913.81	5,511.60	61.42	58.95	-85.40	300.56	4,506.93	1,244.22	1,124.69	119.54	10.409	
10,123.24	5,611.35	9,937.06	5,511.48	61.69	59.23	-85.40	300.70	4,530.18	1,244.23	1,124.14	120.09	10.361	
10,200.00	5,611.04	10,013.81	5,511.08	62.58	60.16	-85.39	301.17	4,606.93	1,244.24	1,122.34	121.90	10.207	
10,223.24	5,610.95	10,037.06	5,510.95	62.85	60.44	-85.39	301.31	4,630.17	1,244.24	1,121.79	122.45	10.161	
10,300.00	5,610.65	10,113.81	5,510.55	63.74	61.37	-85.39	301.78	4,706.93	1,244.26	1,119.98	124.28	10.012	
10,323.24	5,610.56	10,137.06	5,510.43	64.01	61.65	-85.38	301.93	4,730.17	1,244.26	1,119.43	124.83	9.968	
10,400.00	5,610.26	10,213.81	5,510.03	64.91	62.59	-85.38	302.40	4,806.92	1,244.27	1,117.62	126.65	9.824	
10,423.24	5,610.17	10,237.06	5,509.90	65.18	62.87	-85.38	302.54	4,830.17	1,244.28	1,117.07	127.21	9.782	
10,500.00	5,609.86	10,313.81	5,509.50	66.08	63.80	-85.37	303.01	4,906.92	1,244.29	1,115.26	129.03	9.643	
10,523.24	5,609.77	10,337.06	5,509.38	66.35	64.08	-85.37	303.15	4,930.16	1,244.30	1,114.71	129.59	9.602	
10,600.00	5,609.47	10,413.81	5,508.98	67.25	65.01	-85.37	303.62	5,006.92	1,244.31	1,112.89	131.42	9.468	
10,623.24	5,609.38	10,437.06	5,508.85	67.52	65.30	-85.37	303.77	5,030.16	1,244.31	1,112.34	131.98	9.428	
10,700.00	5,609.08	10,513.81	5,508.45	68.42	66.23	-85.36	304.24	5,106.91	1,244.33	1,110.52	133.81	9.299	
10,723.24	5,608.99	10,537.06	5,508.33	68.69	66.51	-85.36	304.38	5,130.16	1,244.33	1,109.96	134.37	9.261	
10,800.00	5,608.69	10,613.81	5,507.93	69.60	67.45	-85.36	304.85	5,206.91	1,244.34	1,108.14	136.20	9.136	
10,823.24	5,608.59	10,637.06	5,507.80	69.87	67.73	-85.35	304.99	5,230.16	1,244.35	1,107.59	136.76	9.099	
10,900.00	5,608.29	10,713.81	5,507.40	70.78	68.67	-85.35	305.46	5,306.91	1,244.36	1,105.76	138.60	8.978	
10,923.25	5,608.20	10,737.06	5,507.28	71.05	68.95	-85.35	305.60	5,330.15	1,244.37	1,105.21	139.16	8.942	
11,000.00	5,607.90	10,813.81	5,506.88	71.96	69.89	-85.34	306.08	5,406.90	1,244.38	1,103.38	141.00	8.825	
11,023.25	5,607.81	10,837.06	5,506.75	72.23	70.17	-85.34	306.22	5,430.15	1,244.38	1,102.82	141.56	8.790	
11,100.00	5,607.51	10,913.81	5,506.35	73.14	71.11	-85.34	306.69	5,506.90	1,244.40	1,100.99	143.41	8.677	
11,123.25	5,607.42	10,937.06	5,506.23	73.42	71.39	-85.34	306.83	5,530.15	1,244.40	1,100.44	143.96	8.644	
11,200.00	5,607.11	11,013.81	5,505.83	74.33	72.33	-85.33	307.30	5,606.90	1,244.41	1,098.60	145.81	8.534	
11,223.25	5,607.02	11,037.06	5,505.70	74.60	72.62	-85.33	307.44	5,630.14	1,244.42	1,098.05	146.37	8.502	
11,300.00	5,606.72	11,113.81	5,505.30	75.52	73.56	-85.33	307.91	5,706.89	1,244.43	1,096.21	148.22	8.396	
11,323.25	5,606.63	11,137.06	5,505.18	75.79	73.84	-85.32	308.06	5,730.14	1,244.44	1,095.65	148.78	8.364	
11,400.00	5,606.33	11,213.81	5,504.78	76.71	74.78	-85.32	308.53	5,806.89	1,244.45	1,093.81	150.63	8.261	
11,423.25	5,606.24	11,237.06	5,504.65	76.98	75.06	-85.32	308.67	5,830.14	1,244.45	1,093.26	151.20	8.231	
11,500.00	5,605.94	11,313.81	5,504.25	77.90	76.00	-85.31	309.14	5,906.89	1,244.47	1,091.42	153.05	8.131	
11,523.25	5,605.84	11,337.06	5,504.13	78.18	76.29	-85.31	309.28	5,930.13	1,244.47	1,090.86	153.61	8.101	
11,600.00	5,605.54	11,413.81	5,503.73	79.09	77.23	-85.31	309.75	6,006.88	1,244.48	1,089.02	155.47	8.005	
11,623.25	5,605.45	11,437.06	5,503.60	79.37	77.52	-85.31	309.90	6,030.13	1,244.49	1,088.46	156.03	7.976	
11,700.00	5,605.15	11,513.81	5,503.20	80.29	78.46	-85.30	310.37	6,106.88	1,244.50	1,086.61	157.89	7.882	
11,723.25	5,605.06	11,537.06	5,503.08	80.56	78.74	-85.30	310.51	6,130.13	1,244.51	1,086.06	158.45	7.854	
11,800.00	5,604.76	11,613.81	5,502.68	81.48	79.68	-85.29	310.98	6,206.88	1,244.52	1,084.21	160.31	7.763	
11,823.25	5,604.67	11,637.06	5,502.55	81.76	79.97	-85.29	311.12	6,230.12	1,244.52	1,083.65	160.87	7.736	
11,900.00	5,604.36	11,713.81	5,502.15	82.68	80.91	-85.29	311.59	6,306.87	1,244.54	1,081.80	162.73	7.648	
11,923.25	5,604.27	11,737.06	5,502.03	82.96	81.20	-85.29	311.73	6,330.12	1,244.54	1,081.24	163.30	7.621	
12,000.00	5,603.97	11,813.81	5,501.63	83.88	82.14	-85.28	312.21	6,406.87	1,244.55	1,079.39	165.16	7.535	
12,023.25	5,603.88	11,837.06	5,501.50	84.16	82.43	-85.28	312.35	6,430.12	1,244.56	1,078.83	165.72	7.510	
12,100.00	5,603.58	11,913.81	5,501.10	85.08	83.37	-85.28	312.82	6,506.87	1,244.57	1,076.98	167.59	7.426	
12,123.25	5,603.49	11,937.06	5,500.98	85.36	83.66	-85.28	312.96	6,530.11	1,244.58	1,076.42	168.15	7.401	
12,200.00	5,603.19	12,013.81	5,500.58	86.29	84.60	-85.27	313.43	6,606.86	1,244.59	1,074.57	170.02	7.320	
12,223.25	5,603.09	12,037.06	5,500.45	86.57	84.89	-85.27	313.57	6,630.11	1,244.59	1,074.01	170.58	7.296	
12,300.00	5,602.79	12,113.81	5,500.05	87.49	85.83	-85.26	314.04	6,706.86	1,244.61	1,072.16	172.45	7.217	
12,323.25	5,602.70	12,137.06	5,499.93	87.77	86.12	-85.26	314.19	6,730.11	1,244.61	1,071.59	173.02	7.194	
12,400.00	5,602.40	12,213.81	5,499.53	88.70	87.06	-85.26	314.66	6,806.86	1,244.62	1,069.74	174.88	7.117	
12,423.25	5,602.31	12,237.06	5,499.40	88.98	87.35	-85.26	314.80	6,830.10	1,244.63	1,069.18	175.45	7.094	
12,500.00	5,602.01	12,313.81	5,499.00	89.90	88.29	-85.25	315.27	6,906.85	1,244.64	1,067.32	177.32	7.019	
12,523.25	5,601.92	12,337.06	5,498.88	90.18	88.58	-85.25	315.41	6,930.10	1,244.65	1,066.76	177.89	6.997	
12,600.00	5,601.61	12,413.81	5,498.48	91.11	89.53	-85.25	315.88	7,006.85	1,244.66	1,064.90	179.76	6.924	
12,623.25	5,601.52	12,437.06	5,498.35	91.39	89.81	-85.25	316.03	7,030.10	1,244.66	1,064.34	180.32	6.902	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,700.00	5,601.22	12,513.81	5,497.95	92.32	90.76	-85.24	316.50	7,106.85	1,244.68	1,062.48	182.20	6.832	
12,723.25	5,601.13	12,537.06	5,497.83	92.60	91.04	-85.24	316.64	7,130.09	1,244.68	1,061.92	182.76	6.810	
12,800.00	5,600.83	12,613.81	5,497.43	93.53	91.99	-85.23	317.11	7,206.84	1,244.70	1,060.06	184.64	6.741	
12,823.25	5,600.74	12,637.06	5,497.30	93.81	92.28	-85.23	317.25	7,230.09	1,244.70	1,059.50	185.20	6.721	
12,900.00	5,600.44	12,713.81	5,496.90	94.74	93.22	-85.23	317.72	7,306.84	1,244.71	1,057.64	187.08	6.653	
12,923.25	5,600.34	12,737.06	5,496.78	95.02	93.51	-85.23	317.86	7,330.09	1,244.72	1,057.07	187.65	6.633	
13,000.00	5,600.04	12,813.81	5,496.38	95.95	94.46	-85.22	318.34	7,406.84	1,244.73	1,055.21	189.52	6.568	
13,023.25	5,599.95	12,837.06	5,496.25	96.23	94.74	-85.22	318.48	7,430.08	1,244.74	1,054.65	190.09	6.548	
13,100.00	5,599.65	12,913.81	5,495.85	97.16	95.69	-85.22	318.95	7,506.83	1,244.75	1,052.78	191.97	6.484	
13,123.25	5,599.56	12,937.06	5,495.73	97.45	95.98	-85.22	319.09	7,530.08	1,244.75	1,052.22	192.53	6.465	
13,200.00	5,599.26	13,013.81	5,495.33	98.38	96.93	-85.21	319.56	7,606.83	1,244.77	1,050.36	194.41	6.403	
13,223.25	5,599.17	13,037.06	5,495.20	98.66	97.21	-85.21	319.70	7,630.08	1,244.77	1,049.79	194.98	6.384	
13,300.00	5,598.86	13,113.81	5,494.80	99.59	98.16	-85.20	320.17	7,706.83	1,244.78	1,047.93	196.86	6.323	
13,323.25	5,598.77	13,137.06	5,494.68	99.87	98.45	-85.20	320.32	7,730.07	1,244.79	1,047.36	197.43	6.305	
13,400.00	5,598.47	13,213.81	5,494.28	100.81	99.40	-85.20	320.79	7,806.82	1,244.80	1,045.50	199.31	6.246	
13,423.25	5,598.38	13,237.06	5,494.15	101.09	99.68	-85.20	320.93	7,830.07	1,244.81	1,044.93	199.87	6.228	
13,500.00	5,598.08	13,313.81	5,493.75	102.02	100.63	-85.19	321.40	7,906.82	1,244.82	1,043.07	201.75	6.170	
13,523.25	5,597.99	13,337.06	5,493.63	102.31	100.92	-85.19	321.54	7,930.07	1,244.82	1,042.50	202.32	6.153	
13,600.00	5,597.69	13,413.81	5,493.23	103.24	101.87	-85.19	322.01	8,006.82	1,244.84	1,040.63	204.20	6.096	
13,623.25	5,597.59	13,437.06	5,493.10	103.52	102.16	-85.18	322.16	8,030.06	1,244.84	1,040.07	204.77	6.079	
13,700.00	5,597.29	13,513.81	5,492.70	104.46	103.11	-85.18	322.63	8,106.81	1,244.86	1,038.20	206.66	6.024	
13,723.25	5,597.20	13,537.06	5,492.58	104.74	103.39	-85.18	322.77	8,130.06	1,244.86	1,037.63	207.23	6.007	
13,800.00	5,596.90	13,613.81	5,492.18	105.68	104.34	-85.17	323.24	8,206.81	1,244.87	1,035.77	209.11	5.953	
13,823.25	5,596.81	13,637.06	5,492.05	105.96	104.63	-85.17	323.38	8,230.06	1,244.88	1,035.20	209.68	5.937	
13,900.00	5,596.51	13,713.81	5,491.65	106.90	105.58	-85.17	323.85	8,306.81	1,244.89	1,033.33	211.56	5.884	
13,923.25	5,596.42	13,737.06	5,491.53	107.18	105.87	-85.17	323.99	8,330.05	1,244.90	1,032.76	212.13	5.869	
14,000.00	5,596.11	13,813.81	5,491.13	108.12	106.82	-85.16	324.47	8,406.80	1,244.91	1,030.89	214.02	5.817	
14,023.25	5,596.02	13,837.06	5,491.00	108.40	107.11	-85.16	324.61	8,430.05	1,244.91	1,030.33	214.59	5.801	
14,100.00	5,595.72	13,913.81	5,490.60	109.34	108.06	-85.16	325.08	8,506.80	1,244.93	1,028.46	216.47	5.751	
14,123.25	5,595.63	13,937.06	5,490.48	109.62	108.34	-85.15	325.22	8,530.05	1,244.93	1,027.89	217.04	5.736	
14,200.00	5,595.33	14,013.81	5,490.08	110.56	109.29	-85.15	325.69	8,606.80	1,244.94	1,026.02	218.93	5.687	
14,223.25	5,595.24	14,037.06	5,489.95	110.84	109.58	-85.15	325.83	8,630.04	1,244.95	1,025.45	219.50	5.672	
14,300.00	5,594.94	14,113.81	5,489.55	111.78	110.53	-85.14	326.30	8,706.79	1,244.96	1,023.58	221.38	5.624	
14,323.25	5,594.84	14,137.06	5,489.43	112.07	110.82	-85.14	326.45	8,730.04	1,244.97	1,023.01	221.95	5.609	
14,400.00	5,594.54	14,213.81	5,489.03	113.00	111.77	-85.14	326.92	8,806.79	1,244.98	1,021.14	223.84	5.562	
14,423.25	5,594.45	14,237.06	5,488.90	113.29	112.06	-85.14	327.06	8,830.04	1,244.99	1,020.57	224.41	5.548	
14,500.00	5,594.15	14,313.81	5,488.50	114.23	113.01	-85.13	327.53	8,906.79	1,245.00	1,018.70	226.30	5.502	
14,523.25	5,594.06	14,337.06	5,488.38	114.51	113.30	-85.13	327.67	8,930.03	1,245.00	1,018.13	226.87	5.488	
14,600.00	5,593.76	14,413.81	5,487.98	115.45	114.25	-85.13	328.14	9,006.78	1,245.02	1,016.26	228.76	5.443	
14,623.25	5,593.67	14,437.06	5,487.85	115.73	114.54	-85.12	328.29	9,030.03	1,245.02	1,015.69	229.33	5.429	
14,700.00	5,593.36	14,513.81	5,487.45	116.67	115.49	-85.12	328.76	9,106.78	1,245.03	1,013.82	231.22	5.385	
14,723.25	5,593.27	14,537.06	5,487.33	116.96	115.77	-85.12	328.90	9,130.03	1,245.04	1,013.25	231.79	5.371	
14,800.00	5,592.97	14,613.81	5,486.93	117.90	116.73	-85.11	329.37	9,206.78	1,245.05	1,011.37	233.68	5.328	
14,823.25	5,592.88	14,637.06	5,486.80	118.18	117.01	-85.11	329.51	9,230.02	1,245.06	1,010.81	234.25	5.315	
14,900.00	5,592.58	14,713.81	5,486.40	119.12	117.97	-85.11	329.98	9,306.77	1,245.07	1,008.93	236.14	5.273	
14,923.25	5,592.49	14,737.06	5,486.28	119.41	118.25	-85.11	330.12	9,330.02	1,245.07	1,008.36	236.71	5.260	
15,000.00	5,592.19	14,813.81	5,485.88	120.35	119.21	-85.10	330.60	9,406.77	1,245.09	1,006.49	238.60	5.218	
15,023.25	5,592.09	14,837.06	5,485.75	120.64	119.49	-85.10	330.74	9,430.02	1,245.09	1,005.92	239.17	5.206	
15,100.00	5,591.79	14,913.81	5,485.35	121.58	120.45	-85.10	331.21	9,506.77	1,245.11	1,004.04	241.06	5.165	
15,123.25	5,591.70	14,937.06	5,485.23	121.86	120.73	-85.09	331.35	9,530.01	1,245.11	1,003.47	241.64	5.153	
15,200.00	5,591.40	15,013.81	5,484.83	122.80	121.69	-85.09	331.82	9,606.76	1,245.12	1,001.60	243.53	5.113	
15,223.25	5,591.31	15,037.06	5,484.70	123.09	121.97	-85.09	331.96	9,630.01	1,245.13	1,001.03	244.10	5.101	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1													Offset Site Error:	0.00 usft			
Survey Program:		0-MWD+IFR1+MS		Reference		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				
15,300.00	5,591.01	15,113.81	5,484.30	124.03	122.93	-85.08	332.43	9,706.76	1,245.14	999.15	245.99	5.062					
15,323.25	5,590.92	15,137.06	5,484.18	124.32	123.22	-85.08	332.58	9,730.01	1,245.15	998.58	246.56	5.050					
15,400.00	5,590.61	15,213.81	5,483.78	125.26	124.17	-85.08	333.05	9,806.76	1,245.16	996.71	248.45	5.012					
15,423.25	5,590.52	15,237.06	5,483.65	125.54	124.46	-85.08	333.19	9,830.00	1,245.17	996.14	249.03	5.000					
15,500.00	5,590.22	15,313.81	5,483.25	126.49	125.41	-85.07	333.66	9,906.75	1,245.18	994.26	250.92	4.962					
15,523.25	5,590.13	15,337.06	5,483.13	126.77	125.70	-85.07	333.80	9,930.00	1,245.18	993.69	251.49	4.951					
15,600.00	5,589.83	15,413.81	5,482.73	127.72	126.65	-85.07	334.27	10,006.75	1,245.20	991.81	253.39	4.914					
15,623.25	5,589.74	15,437.06	5,482.60	128.00	126.94	-85.06	334.42	10,030.00	1,245.20	991.24	253.96	4.903					
15,700.00	5,589.44	15,513.81	5,482.20	128.94	127.89	-85.06	334.89	10,106.75	1,245.22	989.36	255.85	4.867					
15,723.25	5,589.34	15,537.06	5,482.08	129.23	128.18	-85.06	335.03	10,129.99	1,245.22	988.79	256.42	4.856					
15,800.00	5,589.04	15,613.81	5,481.68	130.17	129.13	-85.05	335.50	10,206.74	1,245.23	986.92	258.32	4.821					
15,823.25	5,588.95	15,637.06	5,481.55	130.46	129.42	-85.05	335.64	10,229.99	1,245.24	986.35	258.89	4.810					
15,900.00	5,588.65	15,713.81	5,481.15	131.40	130.37	-85.05	336.11	10,306.74	1,245.25	984.47	260.78	4.775					
15,923.25	5,588.56	15,737.06	5,481.03	131.69	130.66	-85.05	336.25	10,329.99	1,245.26	983.90	261.36	4.765					
16,000.00	5,588.26	15,813.81	5,480.63	132.63	131.61	-85.04	336.73	10,406.74	1,245.27	982.02	263.25	4.730					
16,023.25	5,588.17	15,837.06	5,480.50	132.92	131.90	-85.04	336.87	10,429.98	1,245.27	981.45	263.83	4.720					
16,100.00	5,587.86	15,913.81	5,480.10	133.86	132.86	-85.04	337.34	10,506.73	1,245.29	979.57	265.72	4.686					
16,123.25	5,587.77	15,937.06	5,479.98	134.15	133.15	-85.03	337.48	10,529.98	1,245.29	979.00	266.29	4.676					
16,200.00	5,587.47	16,013.81	5,479.58	135.09	134.10	-85.03	337.95	10,606.73	1,245.31	977.12	268.19	4.643					
16,223.25	5,587.38	16,037.06	5,479.45	135.38	134.39	-85.03	338.09	10,629.98	1,245.31	976.55	268.76	4.633					
16,300.00	5,587.08	16,113.81	5,479.05	136.33	135.34	-85.02	338.56	10,706.73	1,245.32	974.67	270.66	4.601					
16,304.35	5,587.06	16,118.16	5,479.03	136.38	135.39	-85.02	338.59	10,711.08	1,245.33	974.56	270.76	4.599					
16,319.94	5,587.00	16,123.37	5,479.00	136.57	135.46	-85.02	338.62	10,716.29	1,245.37	974.38	270.99	4.596 SF					

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka LD13-650 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	19.00	19.00	0.00	0.17	-1.03	1,926.22	-34.63	1,926.53				
100.00	100.00	119.00	119.00	0.88	1.00	-1.03	1,926.22	-34.63	1,926.53	1,924.65	1.89	1,021.946	
200.00	200.00	219.00	219.00	1.50	1.58	-1.03	1,926.22	-34.63	1,926.53	1,923.45	3.09	624.206	
300.00	300.00	319.00	319.00	1.94	2.00	-1.03	1,926.22	-34.63	1,926.53	1,922.60	3.94	489.262	
400.00	400.00	419.00	419.00	2.29	2.35	-1.03	1,926.22	-34.63	1,926.53	1,921.89	4.64	415.228	
500.00	500.00	555.52	555.52	2.60	2.84	-1.03	1,925.69	-34.73	1,926.35	1,920.91	5.44	354.083	
600.00	600.00	846.10	845.26	2.88	4.03	-1.16	1,905.72	-38.60	1,919.49	1,912.63	6.87	279.606	
700.00	699.98	1,079.69	1,075.67	3.23	5.02	167.21	1,868.50	-45.80	1,904.26	1,896.10	8.15	233.543	
800.00	799.88	1,212.29	1,205.42	3.57	5.50	167.13	1,841.67	-50.99	1,888.31	1,879.38	8.94	211.282	
900.00	899.58	1,311.38	1,302.31	3.91	5.86	167.10	1,821.30	-54.93	1,875.18	1,865.55	9.63	194.695	
1,000.00	999.01	1,410.83	1,399.56	4.26	6.23	167.07	1,800.84	-58.89	1,865.01	1,854.65	10.36	180.048	
1,100.00	1,098.06	1,510.56	1,497.08	4.64	6.62	167.06	1,780.34	-62.86	1,857.80	1,846.69	11.12	167.106	
1,200.00	1,196.65	1,610.46	1,594.76	5.02	7.02	167.05	1,759.79	-66.83	1,853.57	1,841.66	11.91	155.670	
1,279.87	1,275.00	1,690.32	1,672.85	5.29	7.35	167.05	1,743.37	-70.01	1,852.33	1,839.82	12.50	148.137	
1,300.00	1,294.69	1,710.45	1,692.53	5.34	7.43	167.05	1,739.23	-70.81	1,852.25	1,839.62	12.64	146.581	
1,400.00	1,392.54	1,810.45	1,790.31	5.70	7.85	167.05	1,718.67	-74.79	1,851.88	1,838.46	13.42	137.960	
1,500.00	1,490.40	1,910.45	1,888.10	6.08	8.27	167.06	1,698.10	-78.77	1,851.51	1,837.28	14.23	130.101	
1,600.00	1,588.25	2,010.45	1,985.88	6.47	8.70	167.06	1,677.54	-82.75	1,851.15	1,836.09	15.06	122.943	
1,700.00	1,686.10	2,110.45	2,083.66	6.86	9.13	167.06	1,656.98	-86.72	1,850.78	1,834.88	15.90	116.423	
1,800.00	1,783.95	2,210.45	2,181.44	7.27	9.57	167.07	1,636.41	-90.70	1,850.41	1,833.66	16.75	110.475	
1,900.00	1,881.80	2,310.45	2,279.22	7.69	10.01	167.07	1,615.85	-94.68	1,850.04	1,832.43	17.61	105.042	
2,000.00	1,979.65	2,410.44	2,377.00	8.11	10.45	167.07	1,595.28	-98.66	1,849.67	1,831.19	18.48	100.068	
2,100.00	2,077.51	2,510.44	2,474.78	8.54	10.90	167.08	1,574.72	-102.64	1,849.30	1,829.94	19.36	95.504	
2,200.00	2,175.36	2,610.44	2,572.56	8.97	11.35	167.08	1,554.16	-106.62	1,848.93	1,828.69	20.25	91.308	
2,300.00	2,273.21	2,710.44	2,670.34	9.40	11.80	167.08	1,533.59	-110.60	1,848.57	1,827.43	21.14	87.439	
2,400.00	2,371.06	2,810.44	2,768.13	9.84	12.25	167.09	1,513.03	-114.57	1,848.20	1,826.16	22.04	83.864	
2,500.00	2,468.91	2,910.44	2,865.91	10.29	12.71	167.09	1,492.47	-118.55	1,847.83	1,824.89	22.94	80.554	
2,600.00	2,566.76	3,010.44	2,963.69	10.73	13.16	167.09	1,471.90	-122.53	1,847.46	1,823.62	23.84	77.481	
2,700.00	2,664.62	3,110.44	3,061.47	11.18	13.62	167.10	1,451.34	-126.51	1,847.09	1,822.34	24.75	74.622	
2,800.00	2,762.47	3,210.44	3,159.25	11.63	14.08	167.10	1,430.77	-130.49	1,846.72	1,821.06	25.66	71.957	
2,900.00	2,860.32	3,310.44	3,257.03	12.08	14.54	167.10	1,410.21	-134.47	1,846.36	1,819.78	26.58	69.468	
3,000.00	2,958.17	3,410.44	3,354.81	12.53	15.00	167.11	1,389.65	-138.45	1,845.99	1,818.49	27.50	67.138	
3,100.00	3,056.02	3,510.44	3,452.59	12.99	15.46	167.11	1,369.08	-142.42	1,845.62	1,817.20	28.41	64.954	
3,200.00	3,153.87	3,610.44	3,550.37	13.44	15.92	167.11	1,348.52	-146.40	1,845.25	1,815.91	29.34	62.902	
3,300.00	3,251.73	3,710.43	3,648.16	13.90	16.39	167.12	1,327.96	-150.38	1,844.88	1,814.62	30.26	60.971	
3,400.00	3,349.58	3,810.43	3,745.94	14.36	16.85	167.12	1,307.39	-154.36	1,844.51	1,813.33	31.18	59.152	
3,500.00	3,447.43	3,910.43	3,843.72	14.82	17.32	167.13	1,286.83	-158.34	1,844.14	1,812.04	32.11	57.434	
3,600.00	3,545.28	4,010.43	3,941.50	15.28	17.78	167.13	1,266.26	-162.32	1,843.78	1,810.74	33.04	55.811	
3,700.00	3,643.13	4,110.43	4,039.28	15.74	18.25	167.13	1,245.70	-166.30	1,843.41	1,809.44	33.96	54.274	
3,800.00	3,740.98	4,210.43	4,137.06	16.20	18.71	167.14	1,225.14	-170.27	1,843.04	1,808.14	34.89	52.817	
3,900.00	3,838.84	4,310.43	4,234.84	16.67	19.18	167.14	1,204.57	-174.25	1,842.67	1,806.84	35.83	51.434	
4,000.00	3,936.69	4,410.43	4,332.62	17.13	19.65	167.14	1,184.01	-178.23	1,842.30	1,805.54	36.76	50.120	
4,100.00	4,034.54	4,510.43	4,430.41	17.59	20.11	167.15	1,163.45	-182.21	1,841.93	1,804.24	37.69	48.870	
4,200.00	4,132.39	4,610.43	4,528.19	18.06	20.58	167.15	1,142.88	-186.19	1,841.57	1,802.94	38.62	47.679	
4,300.00	4,230.24	4,710.43	4,625.97	18.52	21.05	167.15	1,122.32	-190.17	1,841.20	1,801.64	39.56	46.543	
4,400.00	4,328.09	4,810.43	4,723.75	18.99	21.52	167.16	1,101.75	-194.15	1,840.83	1,800.33	40.49	45.459	
4,500.00	4,425.95	4,910.43	4,821.53	19.45	21.99	167.16	1,081.19	-198.12	1,840.46	1,799.03	41.43	44.426	
4,600.00	4,523.80	5,014.73	4,923.53	19.92	22.44	167.31	1,059.77	-197.57	1,840.00	1,797.62	42.38	43.418	
4,700.00	4,621.65	5,116.88	5,022.37	20.39	22.81	167.90	1,039.10	-182.72	1,839.36	1,796.03	43.34	42.443	
4,800.00	4,719.50	5,211.91	5,111.62	20.85	23.04	168.84	1,020.53	-156.13	1,838.97	1,794.75	44.22	41.588	
4,807.05	4,726.40	5,218.27	5,117.46	20.89	23.05	168.92	1,019.32	-153.92	1,838.97	1,794.69	44.28	41.533 CC	
4,900.00	4,817.35	5,297.61	5,188.55	21.32	23.18	170.01	1,004.59	-122.00	1,839.47	1,794.46	45.01	40.865	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka LD13-650 - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,980.47	4,896.09	5,359.24	5,241.13	21.69	23.25	171.01	993.74	-91.77	1,841.00	1,795.42	45.58	40.391	
5,000.00	4,915.21	5,373.35	5,252.79	21.78	23.27	178.73	991.34	-84.21	1,841.56	1,795.86	45.70	40.294	
5,050.00	4,964.16	5,408.97	5,281.58	21.99	23.31	-161.50	985.43	-64.09	1,843.24	1,797.23	46.01	40.064	
5,100.00	5,012.92	5,443.94	5,308.85	22.19	23.34	-144.58	979.83	-42.94	1,845.25	1,798.97	46.28	39.872	
5,150.00	5,061.26	5,478.33	5,334.66	22.36	23.37	-131.81	974.55	-20.84	1,847.55	1,801.05	46.51	39.727	
5,200.00	5,108.93	5,512.22	5,359.05	22.50	23.40	-122.53	969.58	2.16	1,850.10	1,803.42	46.68	39.630	
5,250.00	5,155.72	5,550.00	5,384.96	22.61	23.44	-115.64	964.31	29.14	1,852.86	1,806.02	46.83	39.563	
5,300.00	5,201.38	5,578.70	5,403.69	22.70	23.47	-110.54	960.52	50.56	1,855.76	1,808.84	46.91	39.559	
5,350.00	5,245.69	5,611.39	5,423.97	22.77	23.50	-106.51	956.42	75.85	1,858.78	1,811.80	46.97	39.571	
5,400.00	5,288.45	5,650.00	5,446.45	22.83	23.55	-103.20	951.90	106.91	1,861.89	1,814.85	47.03	39.586	
5,450.00	5,329.44	5,675.85	5,460.58	22.88	23.58	-100.62	949.07	128.37	1,865.00	1,817.97	47.03	39.656	
5,500.00	5,368.46	5,700.00	5,473.08	22.93	23.61	-98.49	946.58	148.88	1,868.13	1,821.13	47.00	39.746	
5,550.00	5,405.32	5,739.30	5,491.96	22.98	23.67	-96.53	942.83	183.14	1,871.18	1,824.14	47.03	39.785	
5,600.00	5,439.85	5,770.72	5,505.71	23.02	23.73	-94.93	940.13	211.26	1,874.16	1,827.13	47.03	39.851	
5,650.00	5,471.87	5,800.00	5,517.43	23.07	23.78	-93.57	937.84	237.99	1,877.02	1,830.00	47.02	39.921	
5,700.00	5,501.23	5,833.05	5,529.36	23.13	23.85	-92.37	935.53	268.72	1,879.73	1,832.70	47.04	39.964	
5,750.00	5,527.78	5,864.00	5,539.26	23.20	23.91	-91.35	933.64	297.98	1,882.26	1,835.21	47.06	40.001	
5,800.00	5,551.41	5,900.00	5,549.21	23.27	24.00	-90.45	931.77	332.53	1,884.60	1,837.48	47.12	40.000	
5,850.00	5,571.98	5,925.57	5,555.24	23.36	24.07	-89.75	930.66	357.35	1,886.67	1,839.52	47.15	40.011	
5,900.00	5,589.40	5,950.00	5,560.19	23.47	24.13	-89.17	929.78	381.26	1,888.52	1,841.32	47.21	40.006	
5,950.00	5,603.59	5,986.80	5,566.13	23.59	24.24	-88.65	928.76	417.55	1,890.07	1,842.72	47.35	39.918	
6,000.00	5,614.47	6,017.32	5,569.67	23.73	24.34	-88.27	928.22	447.86	1,891.34	1,843.85	47.49	39.826	
6,050.00	5,622.00	6,050.00	5,572.06	23.88	24.45	-88.00	927.92	480.45	1,892.32	1,844.64	47.67	39.694	
6,100.00	5,626.14	6,078.24	5,572.95	24.05	24.55	-87.84	927.92	508.68	1,892.98	1,845.11	47.87	39.546	
6,138.45	5,627.00	6,110.98	5,573.00	24.19	24.68	-87.79	928.12	541.42	1,893.21	1,845.11	48.10	39.362	
6,152.74	5,626.94	6,125.27	5,573.00	24.25	24.74	-87.79	928.21	555.71	1,893.21	1,845.01	48.21	39.273	
6,200.00	5,626.76	6,172.53	5,573.00	24.44	24.94	-87.80	928.52	602.96	1,893.22	1,844.66	48.57	38.982	
6,223.18	5,626.67	6,195.71	5,573.00	24.54	25.03	-87.80	928.67	626.14	1,893.23	1,844.47	48.76	38.831	
6,300.00	5,626.37	6,272.53	5,573.00	24.89	25.40	-87.81	929.16	702.96	1,893.25	1,843.82	49.42	38.307	
6,323.18	5,626.27	6,295.71	5,573.00	25.01	25.51	-87.81	929.31	726.14	1,893.25	1,843.61	49.64	38.141	
6,400.00	5,625.97	6,372.53	5,573.00	25.40	25.91	-87.82	929.81	802.95	1,893.27	1,842.88	50.39	37.572	
6,423.18	5,625.88	6,395.71	5,573.00	25.53	26.03	-87.82	929.96	826.14	1,893.28	1,842.65	50.63	37.394	
6,500.00	5,625.58	6,472.53	5,573.00	25.96	26.47	-87.83	930.45	902.95	1,893.30	1,841.83	51.46	36.790	
6,523.18	5,625.49	6,495.71	5,573.00	26.10	26.60	-87.84	930.60	926.13	1,893.30	1,841.58	51.73	36.603	
6,600.00	5,625.19	6,572.53	5,573.00	26.57	27.07	-87.85	931.10	1,002.95	1,893.32	1,840.69	52.63	35.973	
6,623.18	5,625.10	6,595.70	5,573.00	26.72	27.22	-87.85	931.25	1,026.13	1,893.32	1,840.41	52.92	35.780	
6,700.00	5,624.79	6,672.52	5,573.00	27.21	27.72	-87.86	931.74	1,102.95	1,893.34	1,839.45	53.89	35.133	
6,723.18	5,624.70	6,695.70	5,573.00	27.37	27.87	-87.86	931.89	1,126.12	1,893.35	1,839.15	54.20	34.935	
6,800.00	5,624.40	6,772.52	5,573.00	27.90	28.41	-87.87	932.39	1,202.94	1,893.37	1,838.13	55.24	34.278	
6,823.18	5,624.31	6,795.70	5,573.00	28.07	28.57	-87.87	932.54	1,226.12	1,893.37	1,837.81	55.56	34.078	
6,900.00	5,624.01	6,872.52	5,573.00	28.63	29.14	-87.88	933.03	1,302.94	1,893.39	1,836.73	56.66	33.417	
6,923.17	5,623.92	6,895.70	5,573.00	28.81	29.31	-87.88	933.18	1,326.11	1,893.40	1,836.40	57.00	33.217	
7,000.00	5,623.62	6,972.52	5,573.00	29.39	29.89	-87.89	933.68	1,402.94	1,893.42	1,835.26	58.16	32.557	
7,023.17	5,623.52	6,995.70	5,573.00	29.58	30.07	-87.90	933.83	1,426.11	1,893.42	1,834.91	58.51	32.359	
7,100.00	5,623.22	7,072.52	5,573.00	30.19	30.69	-87.90	934.32	1,502.93	1,893.44	1,833.72	59.72	31.705	
7,123.17	5,623.13	7,095.69	5,573.00	30.38	30.87	-87.91	934.47	1,526.11	1,893.45	1,833.35	60.09	31.509	
7,200.00	5,622.83	7,172.52	5,573.00	31.01	31.51	-87.92	934.97	1,602.93	1,893.46	1,832.12	61.35	30.865	
7,223.17	5,622.74	7,195.69	5,573.00	31.21	31.70	-87.92	935.12	1,626.10	1,893.47	1,831.74	61.73	30.672	
7,300.00	5,622.44	7,272.52	5,573.00	31.86	32.35	-87.93	935.61	1,702.93	1,893.49	1,830.46	63.03	30.040	
7,323.17	5,622.35	7,295.69	5,573.00	32.06	32.55	-87.93	935.76	1,726.10	1,893.49	1,830.07	63.43	29.852	
7,400.00	5,622.04	7,372.52	5,573.00	32.73	33.23	-87.94	936.26	1,802.93	1,893.51	1,828.74	64.77	29.235	
7,423.17	5,621.95	7,395.69	5,573.00	32.94	33.43	-87.94	936.41	1,826.09	1,893.52	1,828.34	65.18	29.051	

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



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka LD13-650 - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,500.00	5,621.65	7,472.52	5,573.00	33.63	34.12	-87.95	936.90	1,902.92	1,893.54	1,826.98	66.56	28.451	
7,523.17	5,621.56	7,495.68	5,573.00	33.85	34.33	-87.96	937.05	1,926.09	1,893.54	1,826.57	66.98	28.272	
7,600.00	5,621.26	7,572.52	5,573.00	34.55	35.04	-87.96	937.55	2,002.92	1,893.56	1,825.18	68.39	27.689	
7,623.16	5,621.17	7,595.68	5,573.00	34.77	35.25	-87.97	937.70	2,026.08	1,893.57	1,824.75	68.82	27.516	
7,700.00	5,620.87	7,672.52	5,573.00	35.49	35.97	-87.98	938.19	2,102.92	1,893.59	1,823.33	70.26	26.951	
7,723.16	5,620.77	7,695.68	5,573.00	35.71	36.19	-87.98	938.34	2,126.08	1,893.59	1,822.89	70.70	26.784	
7,800.00	5,620.47	7,772.52	5,573.00	36.45	36.93	-87.99	938.84	2,202.91	1,893.61	1,821.44	72.17	26.238	
7,823.16	5,620.38	7,795.68	5,573.00	36.68	37.15	-87.99	938.99	2,226.08	1,893.62	1,821.00	72.62	26.076	
7,900.00	5,620.08	7,872.52	5,573.00	37.43	37.90	-88.00	939.48	2,302.91	1,893.64	1,819.52	74.12	25.549	
7,923.16	5,619.99	7,895.67	5,573.00	37.66	38.13	-88.00	939.63	2,326.07	1,893.64	1,819.07	74.57	25.393	
8,000.00	5,619.69	7,972.51	5,573.00	38.42	38.89	-88.01	940.13	2,402.91	1,893.66	1,817.57	76.10	24.885	
8,023.16	5,619.60	7,995.67	5,573.00	38.65	39.12	-88.01	940.28	2,426.07	1,893.67	1,817.11	76.56	24.734	
8,100.00	5,619.29	8,072.51	5,573.00	39.42	39.89	-88.02	940.77	2,502.91	1,893.69	1,815.58	78.11	24.245	
8,123.16	5,619.20	8,095.67	5,573.00	39.66	40.12	-88.03	940.92	2,526.06	1,893.69	1,815.12	78.58	24.100	
8,200.00	5,618.90	8,172.51	5,573.00	40.44	40.90	-88.04	941.42	2,602.90	1,893.71	1,813.57	80.14	23.629	
8,223.15	5,618.81	8,195.67	5,573.00	40.68	41.14	-88.04	941.57	2,626.06	1,893.72	1,813.10	80.62	23.490	
8,300.00	5,618.51	8,272.51	5,573.00	41.47	41.93	-88.05	942.06	2,702.90	1,893.74	1,811.53	82.21	23.036	
8,323.15	5,618.42	8,295.66	5,573.00	41.71	42.17	-88.05	942.21	2,726.05	1,893.74	1,811.06	82.69	22.902	
8,400.00	5,618.12	8,372.51	5,573.00	42.51	42.97	-88.06	942.71	2,802.90	1,893.76	1,809.47	84.29	22.466	
8,423.15	5,618.02	8,395.66	5,573.00	42.76	43.21	-88.06	942.86	2,826.05	1,893.77	1,808.99	84.78	22.337	
8,500.00	5,617.72	8,472.51	5,573.00	43.57	44.02	-88.07	943.35	2,902.89	1,893.79	1,807.39	86.40	21.918	
8,522.75	5,617.63	8,495.26	5,573.00	43.81	44.26	-88.07	943.50	2,925.64	1,893.80	1,806.91	86.89	21.796	
8,600.00	5,617.33	8,571.71	5,572.30	44.63	45.07	-88.06	943.99	3,002.08	1,893.84	1,805.33	88.51	21.398	
8,622.62	5,617.24	8,594.33	5,572.02	44.87	45.31	-88.06	944.14	3,024.70	1,893.85	1,804.87	88.99	21.282	
8,700.00	5,616.94	8,671.70	5,571.04	45.70	46.13	-88.04	944.64	3,102.07	1,893.91	1,803.27	90.64	20.896	
8,722.63	5,616.85	8,694.33	5,570.75	45.95	46.38	-88.03	944.78	3,124.70	1,893.92	1,802.80	91.12	20.785	
8,800.00	5,616.54	8,771.70	5,569.78	46.79	47.21	-88.01	945.28	3,202.06	1,893.98	1,801.19	92.78	20.413	
8,822.63	5,616.45	8,794.33	5,569.49	47.03	47.46	-88.00	945.43	3,224.69	1,893.99	1,800.72	93.27	20.306	
8,900.00	5,616.15	8,871.69	5,568.52	47.87	48.30	-87.98	945.93	3,302.04	1,894.04	1,799.10	94.95	19.948	
8,922.64	5,616.06	8,894.33	5,568.23	48.12	48.54	-87.98	946.07	3,324.68	1,894.06	1,798.62	95.44	19.845	
9,000.00	5,615.76	8,971.69	5,567.26	48.97	49.39	-87.96	946.57	3,402.03	1,894.11	1,796.99	97.13	19.501	
9,022.65	5,615.67	8,994.34	5,566.97	49.22	49.64	-87.95	946.72	3,424.67	1,894.13	1,796.51	97.62	19.402	
9,100.00	5,615.37	9,071.69	5,565.99	50.08	50.49	-87.93	947.22	3,502.02	1,894.18	1,794.86	99.32	19.071	
9,122.65	5,615.28	9,094.34	5,565.71	50.33	50.74	-87.93	947.36	3,524.66	1,894.20	1,794.38	99.82	18.976	
9,200.00	5,614.97	9,171.68	5,564.73	51.19	51.60	-87.91	947.86	3,602.00	1,894.25	1,792.72	101.53	18.657	
9,222.66	5,614.88	9,194.34	5,564.45	51.44	51.85	-87.90	948.01	3,624.65	1,894.27	1,792.24	102.03	18.565	
9,300.00	5,614.58	9,271.68	5,563.47	52.30	52.71	-87.88	948.51	3,701.99	1,894.33	1,790.57	103.75	18.258	
9,322.66	5,614.49	9,294.34	5,563.19	52.56	52.97	-87.87	948.65	3,724.65	1,894.34	1,790.08	104.26	18.170	
9,400.00	5,614.19	9,371.68	5,562.21	53.43	53.83	-87.85	949.15	3,801.97	1,894.40	1,788.41	105.98	17.874	
9,422.67	5,614.10	9,394.34	5,561.92	53.68	54.09	-87.85	949.30	3,824.64	1,894.41	1,787.92	106.49	17.789	
9,500.00	5,613.79	9,471.67	5,560.95	54.55	54.96	-87.83	949.80	3,901.96	1,894.47	1,786.24	108.23	17.505	
9,522.67	5,613.70	9,494.34	5,560.66	54.81	55.22	-87.82	949.94	3,924.63	1,894.48	1,785.75	108.74	17.423	
9,600.00	5,613.40	9,571.67	5,559.69	55.69	56.09	-87.80	950.44	4,001.95	1,894.54	1,784.06	110.48	17.148	
9,622.68	5,613.31	9,594.34	5,559.40	55.95	56.35	-87.79	950.59	4,024.62	1,894.56	1,783.56	110.99	17.069	
9,700.00	5,613.01	9,671.66	5,558.43	56.83	57.23	-87.77	951.09	4,101.93	1,894.61	1,781.87	112.74	16.805	
9,722.68	5,612.92	9,694.34	5,558.14	57.09	57.48	-87.77	951.23	4,124.61	1,894.63	1,781.37	113.26	16.728	
9,800.00	5,612.62	9,771.66	5,557.17	57.97	58.37	-87.75	951.73	4,201.92	1,894.68	1,779.67	115.02	16.473	
9,822.68	5,612.53	9,794.34	5,556.88	58.23	58.62	-87.74	951.88	4,224.60	1,894.70	1,779.17	115.53	16.400	
9,900.00	5,612.22	9,871.66	5,555.90	59.12	59.51	-87.72	952.38	4,301.90	1,894.76	1,777.46	117.30	16.153	
9,922.69	5,612.13	9,894.34	5,555.62	59.38	59.77	-87.72	952.52	4,324.59	1,894.77	1,776.96	117.82	16.082	
10,000.00	5,611.83	9,971.65	5,554.64	60.27	60.66	-87.70	953.02	4,401.89	1,894.83	1,775.24	119.59	15.845	
10,022.69	5,611.74	9,994.35	5,554.36	60.53	60.92	-87.69	953.17	4,424.58	1,894.85	1,774.74	120.11	15.776	

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



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka LD13-650 - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: 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)			
10,100.00	5,611.44	10,071.65	5,553.38	61.42	61.81	-87.67	953.67	4,501.88	1,894.90	1,773.02	121.88	15.547	
10,122.70	5,611.35	10,094.35	5,553.10	61.69	62.07	-87.66	953.81	4,524.57	1,894.92	1,772.51	122.41	15.480	
10,200.00	5,611.04	10,171.65	5,552.12	62.58	62.97	-87.64	954.31	4,601.86	1,894.98	1,770.79	124.19	15.259	
10,222.70	5,610.95	10,194.35	5,551.83	62.84	63.23	-87.64	954.46	4,624.56	1,895.00	1,770.28	124.71	15.195	
10,300.00	5,610.65	10,271.64	5,550.86	63.74	64.13	-87.62	954.96	4,701.85	1,895.05	1,768.55	126.50	14.981	
10,322.71	5,610.56	10,294.35	5,550.57	64.01	64.39	-87.61	955.10	4,724.55	1,895.07	1,768.04	127.03	14.919	
10,400.00	5,610.26	10,371.64	5,549.60	64.91	65.29	-87.59	955.60	4,801.84	1,895.13	1,766.31	128.82	14.712	
10,422.71	5,610.17	10,394.35	5,549.31	65.17	65.55	-87.58	955.75	4,824.54	1,895.15	1,765.80	129.35	14.652	
10,500.00	5,609.86	10,471.63	5,548.34	66.08	66.45	-87.56	956.25	4,901.82	1,895.20	1,764.06	131.14	14.452	
10,523.10	5,609.77	10,494.73	5,548.05	66.35	66.72	-87.56	956.39	4,924.91	1,895.22	1,763.54	131.68	14.393	
10,600.00	5,609.47	10,572.66	5,547.77	67.25	67.63	-87.56	956.90	5,002.84	1,895.25	1,761.75	133.50	14.197	
10,623.21	5,609.38	10,595.87	5,547.77	67.52	67.90	-87.56	957.05	5,026.05	1,895.25	1,761.21	134.04	14.139	
10,700.00	5,609.08	10,672.65	5,547.78	68.42	68.80	-87.57	957.54	5,102.84	1,895.27	1,759.42	135.85	13.951	
10,723.21	5,608.99	10,695.86	5,547.78	68.69	69.08	-87.57	957.69	5,126.04	1,895.28	1,758.88	136.40	13.895	
10,800.00	5,608.69	10,772.65	5,547.78	69.60	69.98	-87.58	958.19	5,202.83	1,895.29	1,757.08	138.21	13.713	
10,823.21	5,608.60	10,795.86	5,547.78	69.87	70.25	-87.59	958.34	5,226.04	1,895.30	1,756.54	138.76	13.659	
10,900.00	5,608.29	10,872.65	5,547.79	70.78	71.16	-87.60	958.83	5,302.83	1,895.32	1,754.74	140.58	13.482	
10,923.21	5,608.20	10,895.86	5,547.79	71.05	71.43	-87.60	958.98	5,326.04	1,895.32	1,754.19	141.13	13.430	
11,000.00	5,607.90	10,972.65	5,547.79	71.96	72.34	-87.61	959.48	5,402.83	1,895.34	1,752.39	142.95	13.259	
11,023.21	5,607.81	10,995.86	5,547.79	72.23	72.61	-87.61	959.63	5,426.03	1,895.34	1,751.85	143.50	13.208	
11,100.00	5,607.51	11,072.65	5,547.79	73.14	73.52	-87.62	960.12	5,502.82	1,895.36	1,750.04	145.32	13.043	
11,123.20	5,607.42	11,095.86	5,547.79	73.42	73.79	-87.62	960.27	5,526.03	1,895.37	1,749.49	145.87	12.993	
11,200.00	5,607.11	11,172.65	5,547.80	74.33	74.70	-87.63	960.77	5,602.82	1,895.38	1,747.68	147.70	12.833	
11,223.20	5,607.02	11,195.85	5,547.80	74.60	74.98	-87.63	960.92	5,626.02	1,895.39	1,747.13	148.25	12.785	
11,300.00	5,606.72	11,272.65	5,547.80	75.52	75.89	-87.64	961.41	5,702.82	1,895.40	1,745.32	150.08	12.629	
11,323.20	5,606.63	11,295.85	5,547.80	75.79	76.16	-87.65	961.56	5,726.02	1,895.41	1,744.77	150.64	12.583	
11,400.00	5,606.33	11,372.65	5,547.81	76.71	77.08	-87.66	962.06	5,802.82	1,895.43	1,742.96	152.47	12.431	
11,423.20	5,606.24	11,395.85	5,547.81	76.98	77.35	-87.66	962.21	5,826.02	1,895.43	1,742.41	153.02	12.386	
11,500.00	5,605.94	11,472.65	5,547.81	77.90	78.27	-87.67	962.70	5,902.81	1,895.45	1,740.59	154.86	12.240	
11,523.20	5,605.85	11,495.85	5,547.81	78.17	78.54	-87.67	962.85	5,926.01	1,895.45	1,740.04	155.42	12.196	
11,600.00	5,605.54	11,572.65	5,547.81	79.09	79.46	-87.68	963.35	6,002.81	1,895.47	1,738.22	157.26	12.053	
11,623.20	5,605.45	11,595.85	5,547.81	79.37	79.73	-87.68	963.50	6,026.01	1,895.48	1,737.67	157.81	12.011	
11,700.00	5,605.15	11,672.65	5,547.82	80.29	80.65	-87.69	963.99	6,102.81	1,895.49	1,735.84	159.65	11.873	
11,723.20	5,605.06	11,695.84	5,547.82	80.56	80.93	-87.69	964.14	6,126.00	1,895.50	1,735.29	160.21	11.831	
11,800.00	5,604.76	11,772.65	5,547.82	81.48	81.85	-87.70	964.64	6,202.80	1,895.52	1,733.46	162.05	11.697	
11,823.20	5,604.67	11,795.84	5,547.82	81.76	82.12	-87.71	964.79	6,226.00	1,895.52	1,732.91	162.61	11.657	
11,900.00	5,604.36	11,872.65	5,547.83	82.68	83.04	-87.72	965.28	6,302.80	1,895.54	1,731.08	164.46	11.526	
11,923.20	5,604.27	11,895.84	5,547.83	82.96	83.32	-87.72	965.43	6,325.99	1,895.55	1,730.53	165.02	11.487	
12,000.00	5,603.97	11,972.64	5,547.83	83.88	84.24	-87.73	965.93	6,402.80	1,895.56	1,728.70	166.87	11.360	
12,023.19	5,603.88	11,995.84	5,547.83	84.16	84.52	-87.73	966.08	6,425.99	1,895.57	1,728.14	167.42	11.322	
12,100.00	5,603.58	12,072.64	5,547.83	85.08	85.44	-87.74	966.57	6,502.79	1,895.59	1,726.31	169.28	11.198	
12,123.19	5,603.49	12,095.84	5,547.83	85.36	85.72	-87.74	966.72	6,525.99	1,895.59	1,725.76	169.83	11.161	
12,200.00	5,603.19	12,172.64	5,547.84	86.29	86.64	-87.75	967.22	6,602.79	1,895.61	1,723.92	171.69	11.041	
12,223.19	5,603.10	12,195.83	5,547.84	86.57	86.92	-87.75	967.37	6,625.98	1,895.62	1,723.37	172.25	11.005	
12,300.00	5,602.79	12,272.64	5,547.84	87.49	87.85	-87.76	967.86	6,702.79	1,895.63	1,721.53	174.10	10.888	
12,323.19	5,602.70	12,295.83	5,547.84	87.77	88.12	-87.77	968.01	6,725.98	1,895.64	1,720.97	174.66	10.853	
12,400.00	5,602.40	12,372.64	5,547.85	88.70	89.05	-87.78	968.51	6,802.79	1,895.66	1,719.14	176.52	10.739	
12,423.19	5,602.31	12,395.83	5,547.85	88.97	89.33	-87.78	968.66	6,825.97	1,895.66	1,718.58	177.08	10.705	
12,500.00	5,602.01	12,472.64	5,547.85	89.90	90.25	-87.79	969.15	6,902.78	1,895.68	1,716.74	178.94	10.594	
12,523.19	5,601.92	12,495.83	5,547.85	90.18	90.53	-87.79	969.30	6,925.97	1,895.68	1,716.18	179.50	10.561	
12,600.00	5,601.61	12,572.64	5,547.85	91.11	91.46	-87.80	969.80	7,002.78	1,895.70	1,714.34	181.36	10.453	
12,623.19	5,601.52	12,595.83	5,547.85	91.39	91.74	-87.80	969.95	7,025.97	1,895.71	1,713.78	181.93	10.420	

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

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka LD13-650 - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,700.00	5,601.22	12,672.64	5,547.86	92.32	92.67	-87.81	970.44	7,102.78	1,895.73	1,711.94	183.79	10.315	
12,723.18	5,601.13	12,695.82	5,547.86	92.60	92.95	-87.82	970.59	7,125.96	1,895.73	1,711.38	184.35	10.283	
12,800.00	5,600.83	12,772.64	5,547.86	93.53	93.88	-87.82	971.09	7,202.77	1,895.75	1,709.54	186.21	10.180	
12,823.18	5,600.74	12,795.82	5,547.86	93.81	94.16	-87.83	971.24	7,225.96	1,895.76	1,708.98	186.78	10.150	
12,900.00	5,600.44	12,872.64	5,547.87	94.74	95.09	-87.84	971.73	7,302.77	1,895.77	1,707.13	188.64	10.049	
12,923.18	5,600.34	12,895.82	5,547.87	95.02	95.37	-87.84	971.88	7,325.95	1,895.78	1,706.57	189.21	10.020	
13,000.00	5,600.04	12,972.64	5,547.87	95.95	96.30	-87.85	972.38	7,402.77	1,895.80	1,704.72	191.07	9.922	
13,023.18	5,599.95	12,995.82	5,547.87	96.23	96.58	-87.85	972.53	7,425.95	1,895.80	1,704.16	191.64	9.893	
13,100.00	5,599.65	13,072.64	5,547.87	97.16	97.51	-87.86	973.02	7,502.77	1,895.82	1,702.31	193.51	9.797	
13,123.18	5,599.56	13,095.81	5,547.87	97.44	97.79	-87.86	973.17	7,525.94	1,895.83	1,701.76	194.07	9.769	
13,200.00	5,599.26	13,172.64	5,547.88	98.38	98.72	-87.87	973.67	7,602.76	1,895.85	1,699.90	195.94	9.676	
13,223.18	5,599.17	13,195.81	5,547.88	98.66	99.00	-87.88	973.82	7,625.94	1,895.85	1,699.34	196.51	9.648	
13,300.00	5,598.86	13,272.63	5,547.88	99.59	99.93	-87.88	974.31	7,702.76	1,895.87	1,697.49	198.38	9.557	
13,323.18	5,598.77	13,295.81	5,547.88	99.87	100.22	-87.89	974.46	7,725.94	1,895.88	1,696.93	198.94	9.530	
13,400.00	5,598.47	13,372.63	5,547.88	100.81	101.15	-87.90	974.96	7,802.76	1,895.89	1,695.08	200.82	9.441	
13,423.17	5,598.38	13,395.81	5,547.89	101.09	101.43	-87.90	975.11	7,825.93	1,895.90	1,694.52	201.38	9.414	
13,500.00	5,598.08	13,472.63	5,547.89	102.02	102.36	-87.91	975.60	7,902.75	1,895.92	1,692.66	203.26	9.328	
13,523.17	5,597.99	13,495.81	5,547.89	102.31	102.65	-87.91	975.75	7,925.93	1,895.92	1,692.10	203.82	9.302	
13,600.00	5,597.69	13,572.63	5,547.89	103.24	103.58	-87.92	976.25	8,002.75	1,895.94	1,690.24	205.70	9.217	
13,623.17	5,597.59	13,595.80	5,547.89	103.52	103.86	-87.92	976.40	8,025.92	1,895.95	1,689.68	206.26	9.192	
13,700.00	5,597.29	13,672.63	5,547.90	104.46	104.80	-87.93	976.89	8,102.75	1,895.97	1,687.83	208.14	9.109	
13,723.17	5,597.20	13,695.80	5,547.90	104.74	105.08	-87.94	977.04	8,125.92	1,895.97	1,687.27	208.71	9.084	
13,800.00	5,596.90	13,772.63	5,547.90	105.68	106.01	-87.94	977.54	8,202.75	1,895.99	1,685.41	210.58	9.003	
13,823.17	5,596.81	13,795.80	5,547.90	105.96	106.30	-87.95	977.69	8,225.91	1,896.00	1,684.85	211.15	8.979	
13,900.00	5,596.51	13,872.63	5,547.90	106.90	107.23	-87.96	978.18	8,302.74	1,896.02	1,682.99	213.03	8.900	
13,923.17	5,596.42	13,895.80	5,547.91	107.18	107.52	-87.96	978.33	8,325.91	1,896.02	1,682.42	213.60	8.877	
14,000.00	5,596.11	13,972.63	5,547.91	108.12	108.45	-87.97	978.83	8,402.74	1,896.04	1,680.56	215.48	8.799	
14,023.17	5,596.02	13,995.79	5,547.91	108.40	108.73	-87.97	978.98	8,425.90	1,896.05	1,680.00	216.04	8.776	
14,100.00	5,595.72	14,072.63	5,547.91	109.34	109.67	-87.98	979.47	8,502.74	1,896.06	1,678.14	217.93	8.701	
14,123.16	5,595.63	14,095.79	5,547.91	109.62	109.95	-87.98	979.62	8,525.90	1,896.07	1,677.58	218.49	8.678	
14,200.00	5,595.33	14,172.63	5,547.92	110.56	110.89	-87.99	980.12	8,602.73	1,896.09	1,675.71	220.37	8.604	
14,223.16	5,595.24	14,195.79	5,547.92	110.84	111.17	-88.00	980.27	8,625.90	1,896.10	1,675.15	220.94	8.582	
14,300.00	5,594.94	14,272.63	5,547.92	111.78	112.11	-88.00	980.76	8,702.73	1,896.11	1,673.29	222.83	8.509	
14,323.16	5,594.84	14,295.79	5,547.92	112.06	112.40	-88.01	980.91	8,725.89	1,896.12	1,672.73	223.39	8.488	
14,400.00	5,594.54	14,372.63	5,547.92	113.00	113.33	-88.02	981.41	8,802.73	1,896.14	1,670.86	225.28	8.417	
14,423.16	5,594.45	14,395.78	5,547.93	113.29	113.62	-88.02	981.56	8,825.89	1,896.15	1,670.30	225.85	8.396	
14,500.00	5,594.15	14,472.62	5,547.93	114.23	114.56	-88.03	982.05	8,902.73	1,896.16	1,668.43	227.73	8.326	
14,523.16	5,594.06	14,495.78	5,547.93	114.51	114.84	-88.03	982.20	8,925.88	1,896.17	1,667.87	228.30	8.306	
14,600.00	5,593.76	14,572.62	5,547.93	115.45	115.78	-88.04	982.70	9,002.72	1,896.19	1,666.00	230.19	8.238	
14,623.16	5,593.67	14,595.78	5,547.93	115.73	116.06	-88.04	982.85	9,025.88	1,896.20	1,665.44	230.75	8.217	
14,700.00	5,593.36	14,672.62	5,547.94	116.67	117.00	-88.05	983.34	9,102.72	1,896.21	1,663.57	232.64	8.151	
14,723.15	5,593.27	14,695.78	5,547.94	116.96	117.29	-88.06	983.49	9,125.87	1,896.22	1,663.01	233.21	8.131	
14,800.00	5,592.97	14,772.62	5,547.94	117.90	118.23	-88.06	983.99	9,202.72	1,896.24	1,661.14	235.10	8.066	
14,823.15	5,592.88	14,795.77	5,547.94	118.18	118.51	-88.07	984.14	9,225.87	1,896.25	1,660.58	235.67	8.046	
14,900.00	5,592.58	14,872.62	5,547.94	119.12	119.45	-88.08	984.63	9,302.71	1,896.27	1,658.71	237.55	7.982	
14,923.15	5,592.49	14,895.77	5,547.95	119.41	119.74	-88.08	984.78	9,325.86	1,896.27	1,658.15	238.12	7.963	
15,000.00	5,592.19	14,972.62	5,547.95	120.35	120.68	-88.09	985.28	9,402.71	1,896.29	1,656.28	240.01	7.901	
15,023.15	5,592.09	14,995.77	5,547.95	120.63	120.96	-88.09	985.43	9,425.86	1,896.30	1,655.71	240.58	7.882	
15,100.00	5,591.79	15,072.62	5,547.95	121.58	121.90	-88.10	985.92	9,502.71	1,896.32	1,653.84	242.47	7.821	
15,123.15	5,591.70	15,095.77	5,547.95	121.86	122.19	-88.10	986.07	9,525.85	1,896.32	1,653.28	243.04	7.802	
15,200.00	5,591.40	15,172.62	5,547.96	122.80	123.13	-88.11	986.57	9,602.71	1,896.34	1,651.41	244.93	7.742	
15,223.14	5,591.31	15,195.76	5,547.96	123.09	123.41	-88.12	986.72	9,625.85	1,896.35	1,650.85	245.50	7.724	

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



# Altitude Energy Partners Anticollision Report



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Tatanka Pads - Tatanka LD13-650 - OH - Plan #1												Offset Site Error:	0.00 usft		
Survey Program:		0-MWD+IFR1+MS		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		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		
15,300.00	5,591.01	15,272.62	5,547.96	124.03	124.35	-88.12	987.21	9,702.70	1,896.37	1,648.97	247.39	7.665			
15,323.14	5,590.92	15,295.76	5,547.96	124.32	124.64	-88.13	987.36	9,725.85	1,896.37	1,648.41	247.96	7.648			
15,400.00	5,590.61	15,372.62	5,547.96	125.26	125.58	-88.14	987.86	9,802.70	1,896.39	1,646.54	249.86	7.590			
15,423.14	5,590.52	15,395.76	5,547.97	125.54	125.87	-88.14	988.01	9,825.84	1,896.40	1,645.97	250.43	7.573			
15,500.00	5,590.22	15,472.62	5,547.97	126.49	126.81	-88.15	988.50	9,902.70	1,896.42	1,644.10	252.32	7.516			
15,523.14	5,590.13	15,495.76	5,547.97	126.77	127.09	-88.15	988.65	9,925.84	1,896.43	1,643.54	252.89	7.499			
15,600.00	5,589.83	15,572.62	5,547.97	127.72	128.04	-88.16	989.15	10,002.69	1,896.45	1,641.66	254.78	7.443			
15,623.14	5,589.74	15,595.75	5,547.97	128.00	128.32	-88.16	989.30	10,025.83	1,896.45	1,641.10	255.35	7.427			
15,700.00	5,589.44	15,672.62	5,547.98	128.94	129.26	-88.17	989.79	10,102.69	1,896.47	1,639.22	257.25	7.372			
15,723.14	5,589.34	15,695.75	5,547.98	129.23	129.55	-88.18	989.94	10,125.83	1,896.48	1,638.66	257.82	7.356			
15,800.00	5,589.04	15,772.61	5,547.98	130.17	130.49	-88.19	990.44	10,202.69	1,896.50	1,636.78	259.71	7.302			
15,823.13	5,588.95	15,795.75	5,547.98	130.46	130.78	-88.19	990.59	10,225.82	1,896.50	1,636.22	260.28	7.286			
15,900.00	5,588.65	15,872.61	5,547.98	131.40	131.72	-88.20	991.08	10,302.69	1,896.52	1,634.34	262.18	7.234			
15,923.13	5,588.56	15,895.74	5,547.99	131.69	132.01	-88.20	991.23	10,325.82	1,896.53	1,633.78	262.75	7.218			
16,000.00	5,588.26	15,972.61	5,547.99	132.63	132.95	-88.21	991.73	10,402.68	1,896.55	1,631.90	264.65	7.166			
16,023.13	5,588.17	15,995.74	5,547.99	132.92	133.24	-88.21	991.88	10,425.81	1,896.56	1,631.34	265.22	7.151			
16,100.00	5,587.86	16,072.61	5,547.99	133.86	134.18	-88.22	992.37	10,502.68	1,896.58	1,629.46	267.11	7.100			
16,123.13	5,587.77	16,095.74	5,547.99	134.15	134.47	-88.22	992.52	10,525.81	1,896.58	1,628.90	267.68	7.085			
16,200.00	5,587.47	16,172.61	5,548.00	135.09	135.41	-88.23	993.02	10,602.68	1,896.60	1,627.02	269.58	7.035			
16,223.13	5,587.38	16,195.74	5,548.00	135.38	135.70	-88.24	993.17	10,625.80	1,896.61	1,626.46	270.15	7.020			
16,300.00	5,587.08	16,272.61	5,548.00	136.33	136.64	-88.25	993.66	10,702.67	1,896.63	1,624.58	272.05	6.972			
16,303.52	5,587.06	16,276.13	5,548.00	136.37	136.68	-88.25	993.68	10,706.20	1,896.63	1,624.49	272.14	6.969			
16,319.94	5,587.00	16,276.52	5,548.00	136.57	136.69	-88.25	993.69	10,706.58	1,896.70	1,624.43	272.27	6.966	ES, SF		

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Tatanka Pads - Tatanka LD13-660 - OH - Plan #1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1+MS													<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>Rule Assigned:</b>								
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
0.00	0.00	19.00	19.00	0.00	0.17	-1.03	1,954.28	-35.19	1,954.59				
100.00	100.00	119.00	119.00	0.88	1.00	-1.03	1,954.28	-35.19	1,954.59	1,952.71	1.89	1,036.830	
200.00	200.00	219.00	219.00	1.50	1.58	-1.03	1,954.28	-35.19	1,954.59	1,951.51	3.09	633.297	
300.00	300.00	319.00	319.00	1.94	2.00	-1.03	1,954.28	-35.19	1,954.59	1,950.66	3.94	496.388	
400.00	400.00	419.00	419.00	2.29	2.35	-1.03	1,954.28	-35.19	1,954.59	1,949.95	4.64	421.276	
500.00	500.00	519.00	519.00	2.60	2.65	-1.03	1,954.28	-35.19	1,954.59	1,949.34	5.25	372.066	
600.00	600.00	634.77	634.77	2.88	2.98	-1.03	1,954.13	-35.26	1,954.52	1,948.65	5.86	333.455	
700.00	699.98	817.66	817.54	3.23	3.54	167.44	1,948.73	-37.96	1,953.08	1,946.35	6.73	290.260	
800.00	799.88	984.23	983.58	3.57	3.96	167.32	1,937.05	-43.80	1,950.47	1,943.04	7.43	262.547	
883.63	883.28	1,067.82	1,066.79	3.85	4.19	167.26	1,929.92	-47.36	1,949.42	1,941.50	7.92	246.085 CC	
900.00	899.58	1,084.18	1,083.08	3.91	4.24	167.25	1,928.52	-48.06	1,949.46	1,941.44	8.02	243.000 ES	
1,000.00	999.01	1,184.13	1,182.58	4.26	4.55	167.18	1,919.99	-52.32	1,951.44	1,942.78	8.66	225.274	
1,100.00	1,098.06	1,284.00	1,281.99	4.64	4.88	167.12	1,911.47	-56.58	1,956.40	1,947.07	9.33	209.737	
1,200.00	1,196.65	1,383.68	1,381.21	5.02	5.21	167.06	1,902.97	-60.83	1,964.33	1,954.31	10.02	196.097	
1,279.87	1,275.00	1,463.10	1,460.27	5.29	5.48	167.03	1,896.19	-64.21	1,972.79	1,962.26	10.53	187.320	
1,300.00	1,294.69	1,483.08	1,480.17	5.34	5.55	167.03	1,894.49	-65.06	1,975.16	1,964.51	10.64	185.576	
1,400.00	1,392.54	1,582.39	1,579.02	5.70	5.90	167.03	1,886.02	-69.30	1,986.93	1,975.61	11.32	175.540	
1,500.00	1,490.40	1,681.69	1,677.87	6.08	6.25	167.04	1,877.54	-73.53	1,998.71	1,986.69	12.01	166.365	
15,522.84	5,590.13	15,427.01	5,509.59	126.77	126.24	-87.73	1,608.74	9,920.60	2,517.52	2,265.48	252.03	9.989	
15,600.00	5,589.83	15,504.18	5,508.94	127.72	127.20	-87.73	1,609.24	9,997.76	2,517.56	2,263.63	253.93	9.914	
15,622.84	5,589.74	15,527.02	5,508.74	128.00	127.48	-87.72	1,609.39	10,020.60	2,517.58	2,263.08	254.50	9.892	
15,700.00	5,589.44	15,604.17	5,508.09	128.94	128.43	-87.72	1,609.89	10,097.75	2,517.62	2,261.23	256.40	9.819	
15,722.84	5,589.35	15,627.02	5,507.89	129.23	128.72	-87.71	1,610.04	10,120.59	2,517.64	2,260.68	256.96	9.798	
15,800.00	5,589.04	15,704.17	5,507.24	130.17	129.67	-87.71	1,610.54	10,197.74	2,517.68	2,258.83	258.86	9.726	
15,822.84	5,588.95	15,727.02	5,507.04	130.45	129.95	-87.70	1,610.69	10,220.59	2,517.70	2,258.28	259.42	9.705	
15,900.00	5,588.65	15,804.17	5,506.39	131.40	130.91	-87.69	1,611.19	10,297.74	2,517.75	2,256.42	261.32	9.635	
15,922.85	5,588.56	15,827.02	5,506.20	131.68	131.19	-87.69	1,611.33	10,320.58	2,517.76	2,255.87	261.88	9.614	
16,000.00	5,588.26	15,904.17	5,505.54	132.63	132.15	-87.68	1,611.83	10,397.73	2,517.81	2,254.02	263.79	9.545	
16,022.85	5,588.17	15,927.02	5,505.35	132.91	132.43	-87.68	1,611.98	10,420.58	2,517.82	2,253.47	264.35	9.525	
16,100.00	5,587.86	16,004.17	5,504.69	133.86	133.38	-87.67	1,612.48	10,497.72	2,517.87	2,251.62	266.25	9.457	
16,122.85	5,587.77	16,027.02	5,504.50	134.15	133.67	-87.67	1,612.63	10,520.57	2,517.88	2,251.07	266.81	9.437	
16,200.00	5,587.47	16,104.17	5,503.84	135.09	134.62	-87.66	1,613.13	10,597.72	2,517.93	2,249.21	268.72	9.370	
16,222.81	5,587.38	16,126.98	5,503.65	135.38	134.91	-87.66	1,613.28	10,620.52	2,517.94	2,248.66	269.28	9.351	
16,300.00	5,587.08	16,203.62	5,503.00	136.33	135.86	-87.65	1,613.78	10,697.17	2,517.99	2,246.81	271.17	9.286	
16,303.64	5,587.06	16,203.62	5,503.00	136.37	135.86	-87.65	1,613.78	10,697.17	2,517.99	2,246.78	271.21	9.284	
16,319.94	5,587.00	16,203.62	5,503.00	136.57	135.86	-87.65	1,613.78	10,697.17	2,518.08	2,246.72	271.37	9.279 SF	



# Altitude Energy Partners

## Anticollision Report



<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

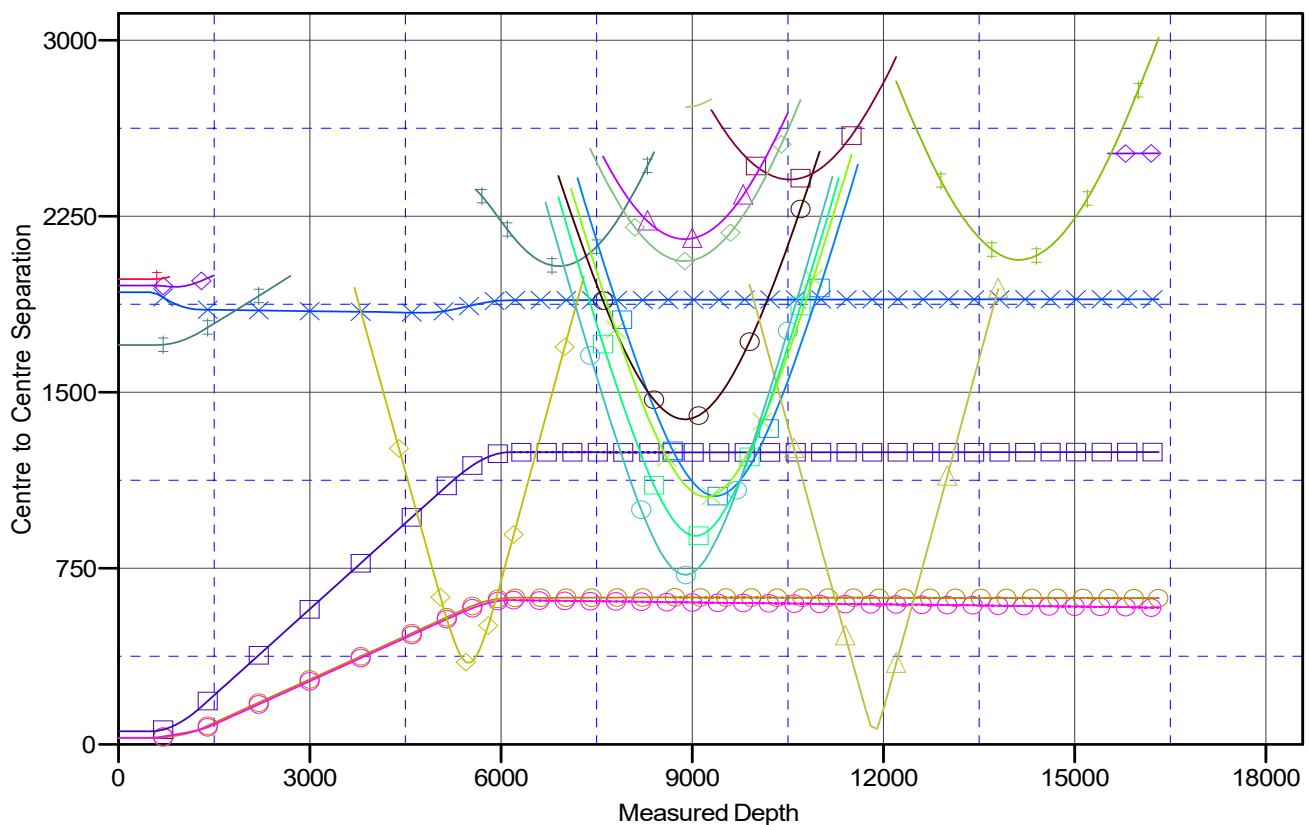
<b>Offset Design:</b> Tatanka Pads - Tatanka LD13-670 - OH - Plan #1													<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1+MS													<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>	<b>Highside</b>	<b>Offset Wellbore Centre</b>	<b>Rule Assigned:</b>									
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>	
0.00	0.00	19.00	19.00	0.00	0.17	-1.02	1,982.33	-35.46	1,982.65					
100.00	100.00	119.00	119.00	0.88	1.00	-1.02	1,982.33	-35.46	1,982.65	1,980.77	1.89	1,051.714		
200.00	200.00	219.00	219.00	1.50	1.58	-1.02	1,982.33	-35.46	1,982.65	1,979.56	3.09	642.388		
300.00	300.00	319.00	319.00	1.94	2.00	-1.02	1,982.33	-35.46	1,982.65	1,978.71	3.94	503.514		
400.00	400.00	419.00	419.00	2.29	2.35	-1.02	1,982.33	-35.46	1,982.65	1,978.01	4.64	427.323		
500.00	500.00	519.00	519.00	2.60	2.65	-1.02	1,982.33	-35.46	1,982.65	1,977.40	5.25	377.407		
508.85	508.85	527.85	527.85	2.62	2.68	-1.02	1,982.33	-35.46	1,982.65	1,977.35	5.30	373.894 CC		
600.00	600.00	614.18	614.18	2.88	2.92	-1.03	1,982.35	-35.48	1,982.67	1,976.88	5.80	341.949 ES		
700.00	699.98	700.00	699.99	3.23	3.20	167.48	1,983.17	-36.47	1,985.09	1,978.70	6.39	310.687		
800.00	799.88	763.21	763.16	3.57	3.40	167.43	1,984.57	-38.14	1,991.67	1,984.79	6.89	289.160 SF		

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum




















Reference Depths are relative to KB=23' @ 4684.00usft  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: Tatanka Federal LD13-625  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 1.07°

### Ladder Plot



### LEGEND

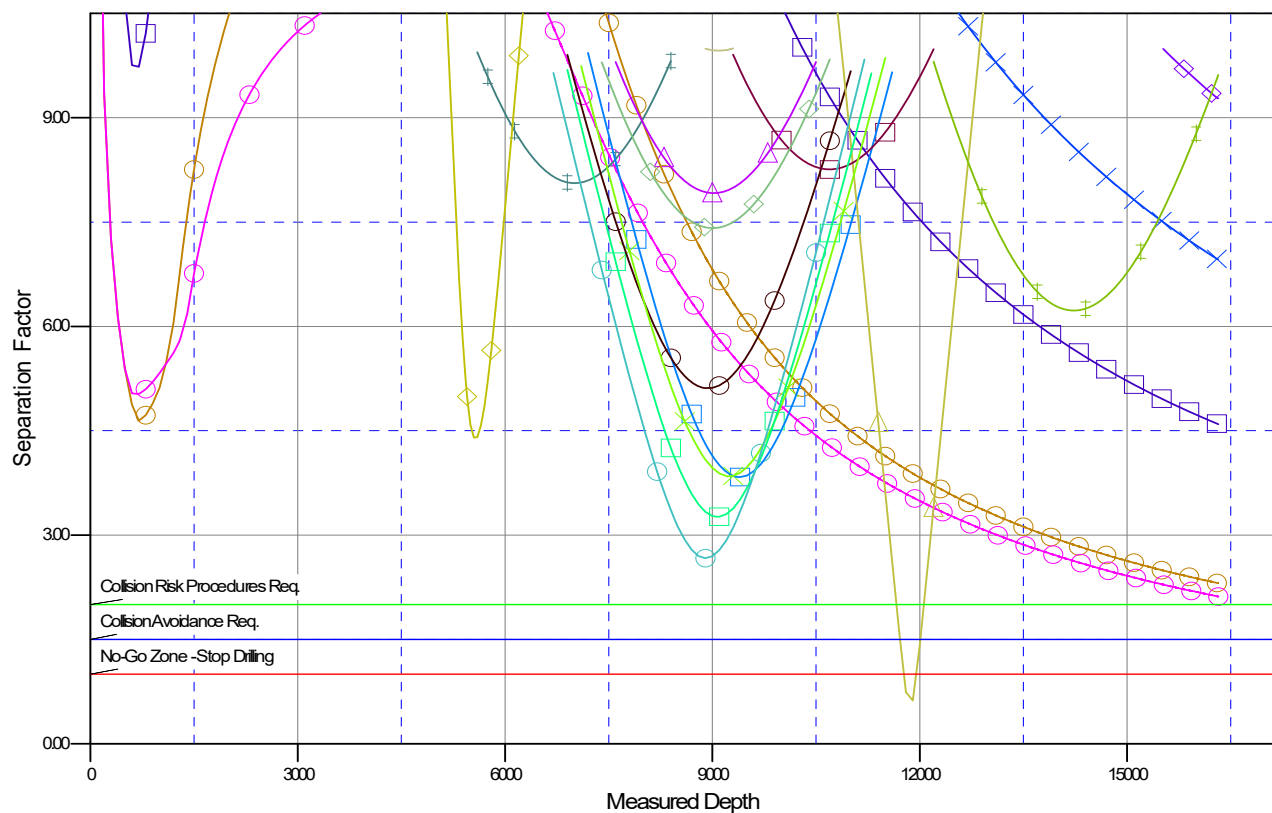
 Tatanka Federal LD13-635, OH, Plan #1 V0	 Alice Nay #2 (D&A), OH, OH V0	 Alice Nay #1 (D&A), OH, OH V0
 Tatanka LD13-660, OH, Plan #1 V0	 Alice Nay #1 (P&A), OH, OH V0	 Modemott #14 (P&A), OH, OH V0
 Tatanka LD13-650, OH, Plan #1 V0	 Castor Federal LD15-72HN, OH, OH V0	 Alice Nay (OWP) #1-A (T&A), OH, OH V0
 Tatanka Federal LD13-615, OH, Plan #1 V0	 Alice Nay #1 (2) (D&A), OH, OH V0	 Alice G Nay #1 (P&A), OH, OH V0
 Tatanka LD13-670, OH, Plan #1 V0	 Castor Federal LD13-78HN, OH, OH V0	 Nay (OWP) #1 (D&A), OH, OH V0
 Tatanka Federal LD13-645, OH, Plan #1 V0	 Brady #1 (D&A), OH, OH V0	
 Zmith #1 (D&A), OH, OH V0	 Raim #3 (D&A), OH, OH V0	

<b>Company:</b>	Bison Oil & Gas II, LLC	<b>Local Co-ordinate Reference:</b>	Well Tatanka Federal LD13-625
<b>Project:</b>	Weld Co., CO (NAD-83)	<b>TVD Reference:</b>	KB=23' @ 4684.00usft
<b>Reference Site:</b>	Tatanka Pads	<b>MD Reference:</b>	KB=23' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Tatanka Federal LD13-625	<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>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB=23' @ 4684.00usft  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: Tatanka Federal LD13-625  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 1.07°

### Separation Factor Plot



#### LEGEND

Tatanka Federal LD13-635, OH, Plan #1 V0	Alice Nay #2 (D&A), OH, OH V0	Alice Nay #1 (D&A), OH, OH V0
Tatanka LD13-660, OH, Plan #1 V0	Alice Nay 1 (D&A), OH, OH V0	Modemott #14 (P&A), OH, OH V0
Tatanka LD13-690, OH, Plan #1 V0	Castor Federal LD15-72HN, OH, OH V0	Alice Nay (OWP) #1-A (T&A), OH, OH V0
Tatanka Federal LD13-615, OH, Plan #1 V0	Alice Nay #1 (2) (D&A), OH, OH V0	Alice G Nay #1 (P&A), OH, OH V0
Tatanka LD13-670, OH, Plan #1 V0	Castor Federal LD15-78HN, OH, OH V0	Nay (OWP) #1 (D&A), OH, OH V0
Tatanka Federal LD13-645, OH, Plan #1 V0	Brady #1 (D&A), OH, OH V0	
Zmth #1 (D&A), OH, OH V0	Raun #3 (D&A), OH, OH V0	