

# Verdad Oil & Gas Corporation

Well Name: Pastelak 01N-64W-02-6N

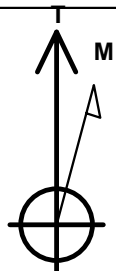
Surface Location: Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 5012.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1276066.41	3273343.92	40.087060	-104.523040	
		Original Well Elev	WELL @ 5025.0ft (Original Well Elev)			

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
460' Setback BHL	-1.0	-4582.8	-875.6	Polygon
460' Setback SHL	-1.0	-245.0	-875.5	Polygon
Sectionline	-1.0	215.0	-875.5	Polygon
SHL 215'FNL & 1331'FWL	1.0	0.0	0.0	Point
BHL 460'FSL & 1485'FWL	6925.0	-4586.4	257.5	Point



Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W  
 Pastelak 01N-64W-02-6N  
 Plan #1 (8-6-14)

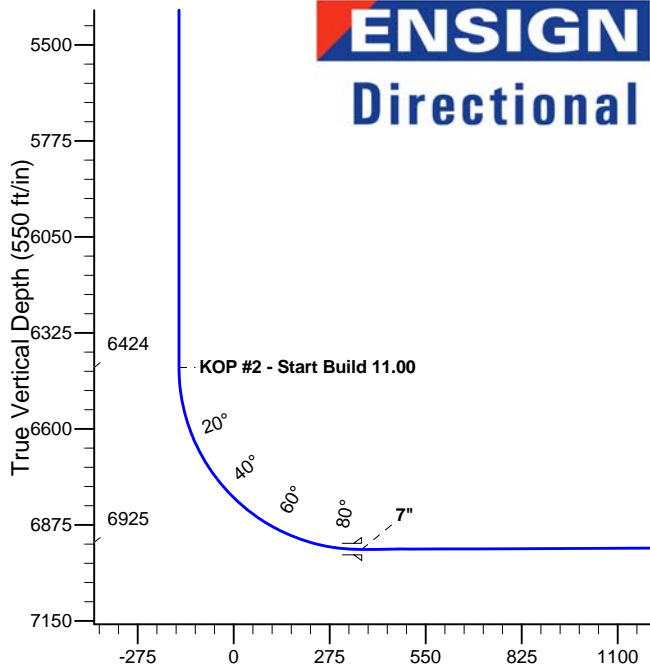
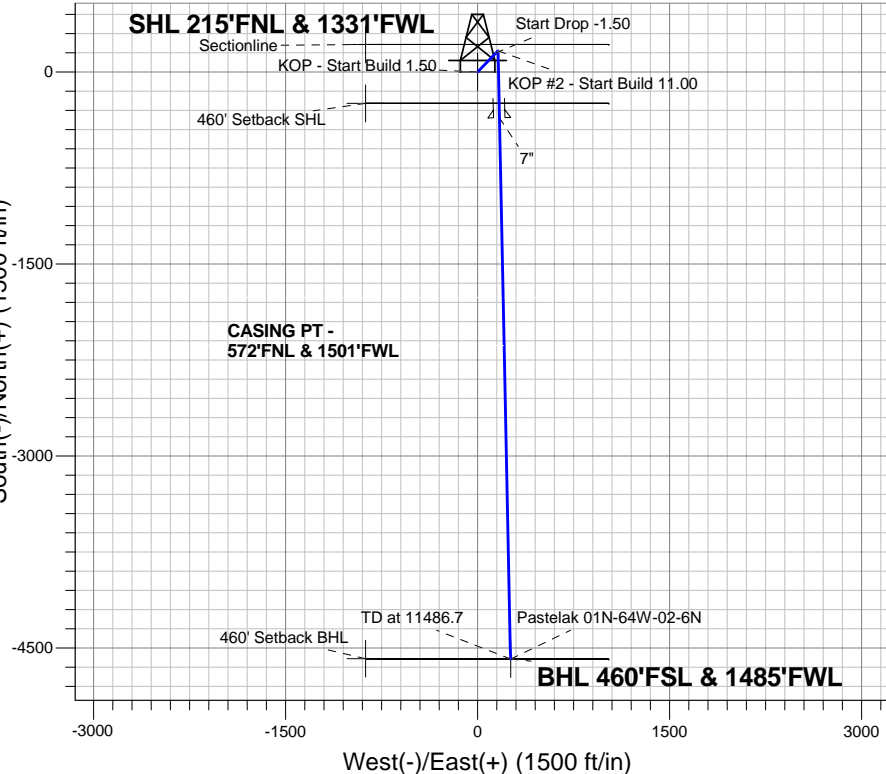
Azimuths to True North  
 Magnetic North: 8.28°

Magnetic Field  
 Strength: 52659.7snT  
 Dip Angle: 66.73°  
 Date: 8/6/2014  
 Model: IGRF2010

## ANNOTATIONS

TVD	MD	Annotation
1600.0	1600.0	KOP - Start Build 1.50
3679.4	3690.4	Start Drop -1.50
6424.1	6435.9	KOP #2 - Start Build 11.00
6925.0	11486.7	TD at 11486.7

South(-)/North(+) (1500 ft/in)



## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1600.0	0.00	0.00	1600.0	0.0	0.0	0.00	0.00	0.0	
3	2021.4	6.32	43.86	2020.6	16.7	16.1	1.50	43.86	-15.8	
4	3690.4	6.32	43.86	3679.4	149.3	143.4	0.00	0.00	-141.0	
5	4111.9	0.00	0.00	4100.0	166.0	159.5	1.50	180.00	-156.8	
6	6435.9	0.00	0.00	6424.1	166.0	159.5	0.00	0.00	-156.8	
7	7256.6	90.27	178.82	6944.9	-357.2	170.3	11.00	178.82	366.2	
8	11486.7	90.27	178.82	6925.0	-4586.4	257.5	0.00	0.00	4593.6	BHL 460'FSL & 1485'FWL

Vertical Section at 176.79° (550 ft/in)

BHL 460'FSL & 1485'FWL

TD at 11486.7



# **Verdad Oil & Gas Corporation**

**SEC.2-T1N-R64W**

**Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W**

**Pastelak 01N-64W-02-6N**

**Wellbore #1**

**Plan: Plan #1 (8-6-14)**

## **Standard Planning Report**

**08 August, 2014**

<b>Database:</b>	landmark	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Company:</b>	Verdad Oil & Gas Corporation	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Project:</b>	SEC.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (8-6-14)		

<b>Project</b>	SEC.2-T1N-R64W, Weld County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

<b>Site</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W				
<b>Site Position:</b>		<b>Northing:</b>	1,276,065.60ft	<b>Latitude:</b>	40.087060
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,273,268.38ft	<b>Longitude:</b>	-104.523310
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.63 °

<b>Well</b>	Pastelak 01N-64W-02-6N					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,276,066.41 ft	<b>Latitude:</b>	40.087060
	<b>+E/-W</b>	75.5 ft	<b>Easting:</b>	3,273,343.92 ft	<b>Longitude:</b>	-104.523040
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,012.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	8/6/2014	8.28	66.73	52,660

<b>Design</b>	Plan #1 (8-6-14)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	176.79

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,021.4	6.32	43.86	2,020.6	16.7	16.1	1.50	1.50	0.00	43.86	
3,690.4	6.32	43.86	3,679.4	149.3	143.4	0.00	0.00	0.00	0.00	
4,111.9	0.00	0.00	4,100.0	166.0	159.5	1.50	-1.50	0.00	180.00	
6,435.9	0.00	0.00	6,424.1	166.0	159.5	0.00	0.00	0.00	0.00	
7,256.6	90.27	178.82	6,944.9	-357.2	170.3	11.00	11.00	0.00	178.82	
11,486.7	90.27	178.82	6,925.0	-4,586.4	257.5	0.00	0.00	0.00	0.00	BHL 460'FSL & 14E

<b>Database:</b>	landmark	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Company:</b>	Verdad Oil & Gas Corporation	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Project:</b>	SEC.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (8-6-14)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP - Start Build 1.50</b>									
1,700.0	1.50	43.86	1,700.0	0.9	0.9	-0.9	1.50	1.50	0.00
1,800.0	3.00	43.86	1,799.9	3.8	3.6	-3.6	1.50	1.50	0.00
1,900.0	4.50	43.86	1,899.7	8.5	8.2	-8.0	1.50	1.50	0.00
2,000.0	6.00	43.86	1,999.3	15.1	14.5	-14.3	1.50	1.50	0.00
2,021.4	6.32	43.86	2,020.6	16.7	16.1	-15.8	1.50	1.50	0.00
2,100.0	6.32	43.86	2,098.7	23.0	22.1	-21.7	0.00	0.00	0.00
2,200.0	6.32	43.86	2,198.1	30.9	29.7	-29.2	0.00	0.00	0.00
2,300.0	6.32	43.86	2,297.5	38.9	37.3	-36.7	0.00	0.00	0.00
2,400.0	6.32	43.86	2,396.8	46.8	45.0	-44.2	0.00	0.00	0.00
2,500.0	6.32	43.86	2,496.2	54.7	52.6	-51.7	0.00	0.00	0.00
2,600.0	6.32	43.86	2,595.6	62.7	60.2	-59.2	0.00	0.00	0.00
2,700.0	6.32	43.86	2,695.0	70.6	67.9	-66.7	0.00	0.00	0.00
2,800.0	6.32	43.86	2,794.4	78.6	75.5	-74.2	0.00	0.00	0.00
2,900.0	6.32	43.86	2,893.8	86.5	83.1	-81.7	0.00	0.00	0.00
3,000.0	6.32	43.86	2,993.2	94.4	90.7	-89.2	0.00	0.00	0.00
3,100.0	6.32	43.86	3,092.6	102.4	98.4	-96.7	0.00	0.00	0.00
3,200.0	6.32	43.86	3,192.0	110.3	106.0	-104.2	0.00	0.00	0.00
3,300.0	6.32	43.86	3,291.4	118.3	113.6	-111.7	0.00	0.00	0.00
3,400.0	6.32	43.86	3,390.8	126.2	121.3	-119.2	0.00	0.00	0.00
3,500.0	6.32	43.86	3,490.2	134.1	128.9	-126.7	0.00	0.00	0.00
3,600.0	6.32	43.86	3,589.5	142.1	136.5	-134.2	0.00	0.00	0.00
3,690.4	6.32	43.86	3,679.4	149.3	143.4	-141.0	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
3,700.0	6.18	43.86	3,688.9	150.0	144.1	-141.7	1.49	-1.49	0.00
3,800.0	4.68	43.86	3,788.5	156.8	150.7	-148.1	1.50	-1.50	0.00
3,900.0	3.18	43.86	3,888.3	161.8	155.4	-152.8	1.50	-1.50	0.00
4,000.0	1.68	43.86	3,988.2	164.8	158.4	-155.7	1.50	-1.50	0.00
4,100.0	0.18	43.86	4,088.1	166.0	159.5	-156.8	1.50	-1.50	0.00
4,111.9	0.00	0.00	4,100.0	166.0	159.5	-156.8	1.50	-1.50	0.00
4,200.0	0.00	0.00	4,188.1	166.0	159.5	-156.8	0.00	0.00	0.00
4,300.0	0.00	0.00	4,288.1	166.0	159.5	-156.8	0.00	0.00	0.00
4,400.0	0.00	0.00	4,388.1	166.0	159.5	-156.8	0.00	0.00	0.00
4,500.0	0.00	0.00	4,488.1	166.0	159.5	-156.8	0.00	0.00	0.00
4,600.0	0.00	0.00	4,588.1	166.0	159.5	-156.8	0.00	0.00	0.00
4,700.0	0.00	0.00	4,688.1	166.0	159.5	-156.8	0.00	0.00	0.00
4,800.0	0.00	0.00	4,788.1	166.0	159.5	-156.8	0.00	0.00	0.00

<b>Database:</b>	landmark	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Company:</b>	Verdad Oil & Gas Corporation	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Project:</b>	SEC.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (8-6-14)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,900.0	0.00	0.00	4,888.1	166.0	159.5	-156.8	0.00	0.00	0.00
5,000.0	0.00	0.00	4,988.1	166.0	159.5	-156.8	0.00	0.00	0.00
5,100.0	0.00	0.00	5,088.1	166.0	159.5	-156.8	0.00	0.00	0.00
5,200.0	0.00	0.00	5,188.1	166.0	159.5	-156.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,288.1	166.0	159.5	-156.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,388.1	166.0	159.5	-156.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,488.1	166.0	159.5	-156.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,588.1	166.0	159.5	-156.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,688.1	166.0	159.5	-156.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,788.1	166.0	159.5	-156.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,888.1	166.0	159.5	-156.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,988.1	166.0	159.5	-156.8	0.00	0.00	0.00
6,100.0	0.00	0.00	6,088.1	166.0	159.5	-156.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,188.1	166.0	159.5	-156.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,288.1	166.0	159.5	-156.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,388.1	166.0	159.5	-156.8	0.00	0.00	0.00
6,435.9	0.00	0.00	6,424.0	166.0	159.5	-156.8	0.00	0.00	0.00
<b>KOP #2 - Start Build 11.00</b>									
6,500.0	7.05	178.82	6,488.0	162.1	159.6	-152.9	11.00	11.00	0.00
6,600.0	18.05	178.82	6,585.4	140.4	160.0	-131.2	11.00	11.00	0.00
6,700.0	29.05	178.82	6,677.0	100.5	160.9	-91.3	11.00	11.00	0.00
6,800.0	40.05	178.82	6,759.2	43.9	162.0	-34.7	11.00	11.00	0.00
6,900.0	51.05	178.82	6,829.1	-27.4	163.5	36.5	11.00	11.00	0.00
7,000.0	62.05	178.82	6,884.2	-110.7	165.2	119.8	11.00	11.00	0.00
7,100.0	73.05	178.82	6,922.3	-202.9	167.1	212.0	11.00	11.00	0.00
7,200.0	84.05	178.82	6,942.1	-300.8	169.1	309.8	11.00	11.00	0.00
7,256.6	90.27	178.82	6,944.9	-357.3	170.3	366.2	10.99	10.99	0.00
<b>7"</b>									
7,300.0	90.27	178.82	6,944.7	-400.6	171.2	409.6	0.00	0.00	0.00
7,400.0	90.27	178.82	6,944.3	-500.6	173.2	509.5	0.00	0.00	0.00
7,500.0	90.27	178.82	6,943.8	-600.6	175.3	609.5	0.00	0.00	0.00
7,600.0	90.27	178.82	6,943.3	-700.6	177.4	709.4	0.00	0.00	0.00
7,700.0	90.27	178.82	6,942.8	-800.6	179.4	809.4	0.00	0.00	0.00
7,800.0	90.27	178.82	6,942.4	-900.5	181.5	909.3	0.00	0.00	0.00
7,900.0	90.27	178.82	6,941.9	-1,000.5	183.5	1,009.2	0.00	0.00	0.00
8,000.0	90.27	178.82	6,941.4	-1,100.5	185.6	1,109.2	0.00	0.00	0.00
8,100.0	90.27	178.82	6,941.0	-1,200.5	187.7	1,209.1	0.00	0.00	0.00
8,200.0	90.27	178.82	6,940.5	-1,300.4	189.7	1,309.0	0.00	0.00	0.00
8,300.0	90.27	178.82	6,940.0	-1,400.4	191.8	1,409.0	0.00	0.00	0.00
8,400.0	90.27	178.82	6,939.5	-1,500.4	193.9	1,508.9	0.00	0.00	0.00
8,500.0	90.27	178.82	6,939.1	-1,600.4	195.9	1,608.8	0.00	0.00	0.00
8,600.0	90.27	178.82	6,938.6	-1,700.4	198.0	1,708.8	0.00	0.00	0.00
8,700.0	90.27	178.82	6,938.1	-1,800.3	200.0	1,808.7	0.00	0.00	0.00
8,800.0	90.27	178.82	6,937.7	-1,900.3	202.1	1,908.6	0.00	0.00	0.00
8,900.0	90.27	178.82	6,937.2	-2,000.3	204.2	2,008.6	0.00	0.00	0.00
9,000.0	90.27	178.82	6,936.7	-2,100.3	206.2	2,108.5	0.00	0.00	0.00
9,100.0	90.27	178.82	6,936.2	-2,200.2	208.3	2,208.5	0.00	0.00	0.00
9,200.0	90.27	178.82	6,935.8	-2,300.2	210.3	2,308.4	0.00	0.00	0.00
9,300.0	90.27	178.82	6,935.3	-2,400.2	212.4	2,408.3	0.00	0.00	0.00
9,400.0	90.27	178.82	6,934.8	-2,500.2	214.5	2,508.3	0.00	0.00	0.00
9,500.0	90.27	178.82	6,934.4	-2,600.2	216.5	2,608.2	0.00	0.00	0.00
9,600.0	90.27	178.82	6,933.9	-2,700.1	218.6	2,708.1	0.00	0.00	0.00
9,700.0	90.27	178.82	6,933.4	-2,800.1	220.6	2,808.1	0.00	0.00	0.00
9,800.0	90.27	178.82	6,932.9	-2,900.1	222.7	2,908.0	0.00	0.00	0.00

<b>Database:</b>	landmark	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Company:</b>	Verdad Oil & Gas Corporation	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Project:</b>	SEC.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (8-6-14)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,900.0	90.27	178.82	6,932.5	-3,000.1	224.8	3,007.9	0.00	0.00	0.00	
10,000.0	90.27	178.82	6,932.0	-3,100.0	226.8	3,107.9	0.00	0.00	0.00	
10,100.0	90.27	178.82	6,931.5	-3,200.0	228.9	3,207.8	0.00	0.00	0.00	
10,200.0	90.27	178.82	6,931.1	-3,300.0	231.0	3,307.8	0.00	0.00	0.00	
10,300.0	90.27	178.82	6,930.6	-3,400.0	233.0	3,407.7	0.00	0.00	0.00	
10,400.0	90.27	178.82	6,930.1	-3,500.0	235.1	3,507.6	0.00	0.00	0.00	
10,500.0	90.27	178.82	6,929.6	-3,599.9	237.1	3,607.6	0.00	0.00	0.00	
10,600.0	90.27	178.82	6,929.2	-3,699.9	239.2	3,707.5	0.00	0.00	0.00	
10,700.0	90.27	178.82	6,928.7	-3,799.9	241.3	3,807.4	0.00	0.00	0.00	
10,800.0	90.27	178.82	6,928.2	-3,899.9	243.3	3,907.4	0.00	0.00	0.00	
10,900.0	90.27	178.82	6,927.8	-3,999.8	245.4	4,007.3	0.00	0.00	0.00	
11,000.0	90.27	178.82	6,927.3	-4,099.8	247.4	4,107.2	0.00	0.00	0.00	
11,100.0	90.27	178.82	6,926.8	-4,199.8	249.5	4,207.2	0.00	0.00	0.00	
11,200.0	90.27	178.82	6,926.4	-4,299.8	251.6	4,307.1	0.00	0.00	0.00	
11,300.0	90.27	178.82	6,925.9	-4,399.7	253.6	4,407.0	0.00	0.00	0.00	
11,400.0	90.27	178.82	6,925.4	-4,499.7	255.7	4,507.0	0.00	0.00	0.00	
11,486.7	90.27	178.82	6,925.0	-4,586.4	257.5	4,593.6	0.00	0.00	0.00	

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,256.6	6,944.9	7"	7	7-1/2

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,600.0	1,600.0	0.0	0.0	KOP - Start Build 1.50
3,690.4	3,679.4	16.7	16.1	Start Drop -1.50
6,435.9	6,424.1	149.3	143.4	KOP #2 - Start Build 11.00
11,486.7	6,925.0	166.0	159.5	TD at 11486.7



## **Directional**

# **Verdad Oil & Gas Corporation**

**SEC.2-T1N-R64W**

**Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W**

**Pastelak 01N-64W-02-6N**

**Wellbore #1**

**Plan #1 (8-6-14)**

## **Anticollision Report**

**08 August, 2014**

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1 (8-6-14)		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	Date 8/8/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	11,486.7	Plan #1 (8-6-14) (Wellbore #1)	MWD	MWD - Standard

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Existing Wells Sec.2-T1N-64W</b>						
Schweitzer 11-2 (P&A) - Wellbore #1 - Wellbore #1	1,600.0	1,601.0	780.0	744.5	21.970	CC
Schweitzer 11-2 (P&A) - Wellbore #1 - Wellbore #1	7,323.3	6,945.6	815.4	659.3	5.222	ES
Schweitzer 11-2 (P&A) - Wellbore #1 - Wellbore #1	7,400.0	6,945.3	819.0	662.1	5.220	SF
<b>Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W</b>						
Pastelak 01N-64W-02-1C - Wellbore #1 - Plan #1 (8-6-14)	566.0	568.0	75.5	73.2	32.507	CC
Pastelak 01N-64W-02-1C - Wellbore #1 - Plan #1 (8-6-14)	600.0	602.0	75.5	73.1	30.505	ES
Pastelak 01N-64W-02-1C - Wellbore #1 - Plan #1 (8-6-14)	11,486.7	11,709.6	849.5	674.4	4.852	SF
Pastelak 01N-64W-02-2N - Wellbore #1 - Plan #1 (8-6-14)	1,366.3	1,367.3	61.6	55.6	10.399	CC
Pastelak 01N-64W-02-2N - Wellbore #1 - Plan #1 (8-6-14)	1,400.0	1,400.0	61.6	55.5	10.145	ES
Pastelak 01N-64W-02-2N - Wellbore #1 - Plan #1 (8-6-14)	11,486.7	11,502.3	660.5	480.9	3.679	SF
Pastelak 01N-64W-02-3N - Wellbore #1 - Plan #1 (8-6-14)	1,566.3	1,567.3	44.8	38.0	6.566	CC
Pastelak 01N-64W-02-3N - Wellbore #1 - Plan #1 (8-6-14)	1,600.0	1,601.0	44.8	37.8	6.423	ES
Pastelak 01N-64W-02-3N - Wellbore #1 - Plan #1 (8-6-14)	11,486.7	11,489.3	495.4	315.8	2.759	SF
Pastelak 01N-64W-02-4N - Wellbore #1 - Plan #1 (8-6-14)	1,600.0	1,601.0	30.8	23.8	4.416	CC, ES
Pastelak 01N-64W-02-4N - Wellbore #1 - Plan #1 (8-6-14)	11,486.7	11,480.5	330.2	150.6	1.839	SF
Pastelak 01N-64W-02-5C - Wellbore #1 - Plan #1 (8-6-14)	1,600.0	1,600.0	16.8	9.8	2.409	CC, ES
Pastelak 01N-64W-02-5C - Wellbore #1 - Plan #1 (8-6-14)	11,486.7	11,675.1	259.4	132.4	2.043	SF
Pastelak 01N-64W-02-7N - Wellbore #1 - Plan #1 (8-6-14)	1,400.0	1,400.0	14.0	7.9	2.305	CC
Pastelak 01N-64W-02-7N - Wellbore #1 - Plan #1 (8-6-14)	11,486.7	11,491.0	165.1	-14.3	0.920	Level 1, ES, SF
Pastelak 01N-64W-02-8N - Wellbore #1 - Plan #1 (8-6-14)	1,000.0	999.0	28.0	23.7	6.555	CC, ES
Pastelak 01N-64W-02-8N - Wellbore #1 - Plan #1 (8-6-14)	11,486.7	11,497.3	330.2	150.4	1.836	SF
Pastelak 01N-64W-02-9C - Wellbore #1 - Plan #1 (8-6-14)	800.0	799.0	44.8	41.4	13.288	CC, ES
Pastelak 01N-64W-02-9C - Wellbore #1 - Plan #1 (8-6-14)	11,486.7	11,699.3	534.1	366.1	3.180	SF

<b>Offset Design</b>	Existing Wells Sec.2-T1N-64W - Schweitzer 11-2 (P&A) - Wellbore #1 - Wellbore #1											<b>Offset Site Error:</b>	0.0ft
<b>Survey Program:</b>	7690-UNKNOWN											<b>Offset Well Error:</b>	0.0ft
Reference	Offset	Semi Major Axis			Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	-124.41	-440.8	-643.6	780.0	780.0	0.02	N/A	
100.0	100.0	101.0	101.0	0.1	2.0	-124.41	-440.8	-643.6	780.0	777.9	2.13	365.769	
200.0	200.0	201.0	201.0	0.3	4.0	-124.41	-440.8	-643.6	780.0	775.7	4.36	179.016	
300.0	300.0	301.0	301.0	0.6	6.0	-124.41	-440.8	-643.6	780.0	773.4	6.58	118.508	
400.0	400.0	401.0	401.0	0.8	8.0	-124.41	-440.8	-643.6	780.0	771.2	8.81	88.571	

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Existing Wells Sec.2-T1N-64W - Schweitzer 11-2 (P&A) - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0ft
Survey Program: 7690-UNKNOWN														Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
500.0	500.0	501.0	501.0	1.0	10.0	-124.41	-440.8	-643.6	780.0	769.0	11.03	70.709			
600.0	600.0	601.0	601.0	1.2	12.0	-124.41	-440.8	-643.6	780.0	766.8	13.26	58.842			
700.0	700.0	701.0	701.0	1.5	14.0	-124.41	-440.8	-643.6	780.0	764.6	15.48	50.386			
800.0	800.0	801.0	801.0	1.7	16.0	-124.41	-440.8	-643.6	780.0	762.3	17.71	44.055			
900.0	900.0	901.0	901.0	1.9	18.0	-124.41	-440.8	-643.6	780.0	760.1	19.93	39.137			
1,000.0	1,000.0	1,001.0	1,001.0	2.1	20.0	-124.41	-440.8	-643.6	780.0	757.9	22.16	35.207			
1,100.0	1,100.0	1,101.0	1,101.0	2.4	22.0	-124.41	-440.8	-643.6	780.0	755.7	24.38	31.994			
1,200.0	1,200.0	1,201.0	1,201.0	2.6	24.0	-124.41	-440.8	-643.6	780.0	753.4	26.60	29.319			
1,300.0	1,300.0	1,301.0	1,301.0	2.8	26.0	-124.41	-440.8	-643.6	780.0	751.2	28.83	27.057			
1,400.0	1,400.0	1,401.0	1,401.0	3.0	28.0	-124.41	-440.8	-643.6	780.0	749.0	31.05	25.118			
1,500.0	1,500.0	1,501.0	1,501.0	3.3	30.0	-124.41	-440.8	-643.6	780.0	746.8	33.28	23.439			
1,600.0	1,600.0	1,601.0	1,601.0	3.5	32.0	-124.41	-440.8	-643.6	780.0	744.5	35.50	21.970 CC			
1,700.0	1,700.0	1,701.0	1,701.0	3.7	34.0	-168.28	-440.8	-643.6	781.3	743.6	37.71	20.718			
1,800.0	1,799.9	1,800.9	1,800.9	3.9	36.0	-168.32	-440.8	-643.6	785.2	745.3	39.89	19.684			
1,900.0	1,899.7	1,900.7	1,900.7	4.1	38.0	-168.40	-440.8	-643.6	791.6	749.5	42.03	18.833			
2,000.0	1,999.3	2,000.3	2,000.3	4.4	40.0	-168.51	-440.8	-643.6	800.5	756.4	44.14	18.138			
2,100.0	2,098.7	2,099.7	2,099.7	4.6	42.0	-168.65	-440.8	-643.6	811.3	765.0	46.31	17.519			
2,200.0	2,198.1	2,199.1	2,199.1	4.9	44.0	-168.80	-440.8	-643.6	822.1	773.6	48.51	16.948			
2,300.0	2,297.5	2,298.5	2,298.5	5.1	46.0	-168.95	-440.8	-643.6	832.9	782.2	50.71	16.425			
2,400.0	2,396.8	2,397.8	2,397.8	5.4	48.0	-169.09	-440.8	-643.6	843.7	790.8	52.91	15.946			
2,500.0	2,496.2	2,497.2	2,497.2	5.6	49.9	-169.23	-440.8	-643.6	854.5	799.4	55.11	15.505			
2,600.0	2,595.6	2,596.6	2,596.6	5.9	51.9	-169.37	-440.8	-643.6	865.3	808.0	57.31	15.098			
2,700.0	2,695.0	2,696.0	2,696.0	6.2	53.9	-169.50	-440.8	-643.6	876.1	816.6	59.52	14.721			
2,800.0	2,794.4	2,795.4	2,795.4	6.4	55.9	-169.63	-440.8	-643.6	887.0	825.3	61.72	14.370			
2,900.0	2,893.8	2,894.8	2,894.8	6.7	57.9	-169.76	-440.8	-643.6	897.8	833.9	63.93	14.044			
3,000.0	2,993.2	2,994.2	2,994.2	7.0	59.9	-169.88	-440.8	-643.6	908.7	842.5	66.14	13.739			
3,100.0	3,092.6	3,093.6	3,093.6	7.3	61.9	-170.00	-440.8	-643.6	919.5	851.2	68.34	13.454			
3,200.0	3,192.0	3,193.0	3,193.0	7.5	63.9	-170.12	-440.8	-643.6	930.3	859.8	70.55	13.187			
3,300.0	3,291.4	3,292.4	3,292.4	7.8	65.8	-170.24	-440.8	-643.6	941.2	868.4	72.76	12.936			
3,400.0	3,390.8	3,391.8	3,391.8	8.1	67.8	-170.35	-440.8	-643.6	952.0	877.1	74.97	12.699			
3,500.0	3,490.2	3,491.2	3,491.2	8.4	69.8	-170.46	-440.8	-643.6	962.9	885.7	77.18	12.477			
3,600.0	3,589.5	3,590.5	3,590.5	8.7	71.8	-170.56	-440.8	-643.6	973.8	894.4	79.39	12.266			
3,700.0	3,688.9	3,689.9	3,689.9	9.0	73.8	-170.67	-440.8	-643.6	984.6	903.0	81.61	12.064			
3,800.0	3,788.5	3,789.5	3,789.5	9.2	75.8	-170.78	-440.8	-643.6	994.0	910.0	83.97	11.837			
6,600.0	6,585.4	6,586.4	6,586.4	14.8	131.7	56.65	-440.8	-643.6	991.7	847.8	143.90	6.892			
6,700.0	6,677.0	6,678.0	6,678.0	14.9	133.6	60.65	-440.8	-643.6	969.6	825.8	143.77	6.744			
6,800.0	6,759.2	6,760.2	6,760.2	15.0	135.2	66.28	-440.8	-643.6	940.1	795.4	144.72	6.496			
6,900.0	6,829.1	6,830.1	6,830.1	15.1	136.6	73.00	-440.8	-643.6	906.8	759.3	147.43	6.151			
7,000.0	6,884.2	6,885.2	6,885.2	15.3	137.7	79.79	-440.8	-643.6	873.5	722.7	150.88	5.790			
7,100.0	6,922.3	6,923.3	6,923.3	15.7	138.5	85.48	-440.8	-643.6	844.8	691.3	153.54	5.502			
7,200.0	6,942.1	6,943.1	6,943.1	16.3	138.9	89.10	-440.8	-643.6	824.7	669.6	155.02	5.320			
7,300.0	6,944.7	6,945.7	6,945.7	17.2	138.9	90.01	-440.8	-643.6	815.7	659.8	155.92	5.232			
7,323.3	6,944.6	6,945.6	6,945.6	17.4	138.9	90.00	-440.8	-643.6	815.4	659.3	156.15	5.222 ES			
7,400.0	6,944.3	6,945.3	6,945.3	18.1	138.9	89.97	-440.8	-643.6	819.0	662.1	156.91	5.220 SF			
7,500.0	6,943.8	6,944.8	6,944.8	19.3	138.9	89.94	-440.8	-643.6	834.3	676.3	158.03	5.279			
7,600.0	6,943.3	6,944.3	6,944.3	20.5	138.9	89.91	-440.8	-643.6	861.1	701.8	159.28	5.406			
7,700.0	6,942.8	6,943.8	6,943.8	21.9	138.9	89.88	-440.8	-643.6	898.2	737.6	160.62	5.592			
7,800.0	6,942.4	6,943.4	6,943.4	23.3	138.9	89.84	-440.8	-643.6	944.5	782.5	162.05	5.829			
7,900.0	6,941.9	6,942.9	6,942.9	24.8	138.9	89.81	-440.8	-643.6	998.7	835.2	163.54	6.107			

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	2.0	2.0	0.0	0.0	-89.99	0.0	-75.5	75.5	75.5	0.00	N/A			
100.0	100.0	102.0	102.0	0.1	0.1	-89.99	0.0	-75.5	75.5	75.3	0.23	329.528			
200.0	200.0	202.0	202.0	0.3	0.3	-89.99	0.0	-75.5	75.5	74.9	0.68	111.298			
300.0	300.0	302.0	302.0	0.6	0.6	-89.99	0.0	-75.5	75.5	74.4	1.13	66.956			
400.0	400.0	402.0	402.0	0.8	0.8	-89.99	0.0	-75.5	75.5	74.0	1.58	47.880			
500.0	500.0	502.0	502.0	1.0	1.0	-89.99	0.0	-75.5	75.5	73.5	2.03	37.264			
566.0	566.0	568.0	568.0	1.2	1.2	-89.99	0.0	-75.5	75.5	73.2	2.32	32.507 CC			
600.0	600.0	602.0	602.0	1.2	1.2	-89.99	0.0	-75.5	75.5	73.1	2.48	30.505 ES			
700.0	700.0	700.0	700.0	1.5	1.5	-89.64	0.5	-77.2	77.3	74.3	2.91	26.523			
800.0	800.0	796.7	796.5	1.7	1.7	-88.74	1.8	-82.1	82.3	78.9	3.34	24.592			
900.0	900.0	893.5	893.0	1.9	1.9	-87.46	4.0	-90.0	90.6	86.8	3.79	23.900			
1,000.0	1,000.0	989.6	988.4	2.1	2.1	-86.02	7.0	-101.1	102.2	98.0	4.25	24.050			
1,100.0	1,100.0	1,086.7	1,084.4	2.4	2.4	-84.61	10.8	-114.9	116.8	112.1	4.73	24.683			
1,200.0	1,200.0	1,185.5	1,182.1	2.6	2.7	-83.46	14.9	-129.5	131.9	126.6	5.23	25.228			
1,300.0	1,300.0	1,284.3	1,279.7	2.8	3.0	-82.54	18.9	-144.1	147.0	141.3	5.73	25.654			
1,400.0	1,400.0	1,383.2	1,377.4	3.0	3.4	-81.80	22.9	-158.6	162.1	155.9	6.24	25.994			
1,500.0	1,500.0	1,482.0	1,475.1	3.3	3.7	-81.18	26.9	-173.2	177.3	170.6	6.75	26.271			
1,600.0	1,600.0	1,580.8	1,572.7	3.5	4.0	-80.67	30.9	-187.8	192.5	185.2	7.26	26.501			
1,700.0	1,700.0	1,679.5	1,670.3	3.7	4.4	-124.18	34.9	-202.3	208.4	201.1	7.39	28.194			
1,800.0	1,799.9	1,778.0	1,767.6	3.9	4.7	-124.40	38.9	-216.8	225.8	218.0	7.84	28.804			
1,900.0	1,899.7	1,876.1	1,864.6	4.1	5.1	-125.05	42.8	-231.3	244.7	236.4	8.29	29.527			
2,000.0	1,999.3	1,973.9	1,961.2	4.4	5.4	-126.02	46.8	-245.7	265.1	256.4	8.74	30.349			
2,100.0	2,098.7	2,071.3	2,057.5	4.6	5.8	-127.30	50.7	-260.0	286.8	277.6	9.20	31.173			
2,200.0	2,198.1	2,168.7	2,153.7	4.9	6.1	-128.47	54.7	-274.4	308.5	298.9	9.67	31.904			
2,300.0	2,297.5	2,266.2	2,250.0	5.1	6.5	-129.48	58.6	-288.7	330.4	320.3	10.15	32.561			
2,400.0	2,396.8	2,363.6	2,346.3	5.4	6.8	-130.36	62.6	-303.1	352.4	341.7	10.63	33.151			
2,500.0	2,496.2	2,461.0	2,442.6	5.6	7.2	-131.14	66.5	-317.5	374.4	363.3	11.11	33.684			
2,600.0	2,595.6	2,558.4	2,538.9	5.9	7.5	-131.84	70.5	-331.8	396.5	384.9	11.60	34.168			
2,700.0	2,695.0	2,655.8	2,635.1	6.2	7.9	-132.46	74.4	-346.2	418.6	406.5	12.10	34.609			
2,800.0	2,794.4	2,753.3	2,731.4	6.4	8.2	-133.02	78.4	-360.5	440.8	428.2	12.59	35.011			
2,900.0	2,893.8	2,850.7	2,827.7	6.7	8.6	-133.52	82.3	-374.9	463.0	450.0	13.09	35.380			
3,000.0	2,993.2	2,948.1	2,924.0	7.0	8.9	-133.98	86.2	-389.2	485.3	471.7	13.59	35.719			
3,100.0	3,092.6	3,045.3	3,020.2	7.3	9.3	-134.40	90.2	-403.6	507.6	493.5	14.09	36.031			
3,200.0	3,192.0	3,143.0	3,116.5	7.5	9.6	-134.79	94.1	-417.9	529.9	515.3	14.59	36.320			
3,300.0	3,291.4	3,240.4	3,212.8	7.8	10.0	-135.14	98.1	-432.3	552.2	537.1	15.09	36.588			
3,400.0	3,390.8	3,337.8	3,309.1	8.1	10.4	-135.46	102.0	-446.7	574.5	559.0	15.60	36.837			
3,500.0	3,490.2	3,435.2	3,405.4	8.4	10.7	-135.77	106.0	-461.0	596.9	580.8	16.10	37.069			
3,600.0	3,589.5	3,532.6	3,501.6	8.7	11.1	-136.04	109.9	-475.4	619.3	602.7	16.61	37.286			
3,700.0	3,688.9	3,630.1	3,597.9	9.0	11.4	-136.33	113.9	-489.7	641.7	624.5	17.12	37.485			
3,800.0	3,788.5	3,727.8	3,694.5	9.2	11.8	-136.70	117.8	-504.1	663.0	645.3	17.61	37.650			
3,900.0	3,888.3	3,825.8	3,791.4	9.4	12.1	-136.89	121.8	-518.6	682.4	664.3	18.08	37.733			
4,000.0	3,988.2	3,924.3	3,888.7	9.6	12.5	-136.91	125.8	-533.1	699.9	681.4	18.55	37.742			
4,100.0	4,088.1	4,023.0	3,986.2	9.7	12.9	-136.77	129.8	-547.6	715.6	696.6	18.99	37.685			
4,200.0	4,188.1	4,121.8	4,083.9	9.9	13.2	-92.56	133.8	-562.2	730.2	710.8	19.40	37.642			
4,300.0	4,288.1	4,220.6	4,181.5	10.1	13.6	-92.19	137.8	-576.7	744.7	724.9	19.85	37.517			
4,400.0	4,388.1	4,319.4	4,279.2	10.3	13.9	-91.85	141.8	-591.3	759.3	739.0	20.30	37.398			
4,500.0	4,488.1	4,418.3	4,376.9	10.5	14.3	-91.51	145.8	-605.9	774.0	753.2	20.76	37.286			
4,600.0	4,588.1	4,517.1	4,474.5	10.7	14.7	-91.19	149.8	-620.4	788.6	767.4	21.21	37.179			
4,700.0	4,688.1	4,619.6	4,575.9	10.9	15.0	-90.87	153.9	-635.5	803.3	781.6	21.67	37.066			
4,800.0	4,788.1	4,755.9	4,711.0	11.1	15.4	-90.53	158.4	-651.9	815.2	793.1	22.16	36.785			
4,900.0	4,888.1	4,893.4	4,848.2	11.4	15.7	-90.33	161.2	-662.1	822.7	800.0	22.62	36.361			
5,000.0	4,988.1	5,031.7	4,986.4	11.6	15.9	-90.26	162.3	-665.9	825.4	802.4	23.07	35.775			

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.0	5,088.1	5,135.5	5,090.1	11.8	16.0	-90.26	162.3	-665.9	825.5	802.0	23.48	35.162		
5,200.0	5,188.1	5,235.5	5,190.1	12.0	16.2	-90.26	162.3	-665.9	825.5	801.6	23.88	34.567		
5,300.0	5,288.1	5,335.5	5,290.1	12.2	16.3	-90.26	162.3	-665.9	825.5	801.2	24.29	33.989		
5,400.0	5,388.1	5,435.5	5,390.1	12.4	16.5	-90.26	162.3	-665.9	825.5	800.8	24.69	33.429		
5,500.0	5,488.1	5,535.5	5,490.1	12.6	16.6	-90.26	162.3	-665.9	825.5	800.4	25.10	32.884		
5,600.0	5,588.1	5,635.5	5,590.1	12.8	16.8	-90.26	162.3	-665.9	825.5	799.9	25.51	32.356		
5,700.0	5,688.1	5,735.5	5,690.1	13.0	17.0	-90.26	162.3	-665.9	825.5	799.5	25.92	31.843		
5,800.0	5,788.1	5,835.5	5,790.1	13.2	17.1	-90.26	162.3	-665.9	825.5	799.1	26.34	31.344		
5,900.0	5,888.1	5,935.5	5,890.1	13.5	17.3	-90.26	162.3	-665.9	825.5	798.7	26.75	30.859		
6,000.0	5,988.1	6,035.5	5,990.1	13.7	17.4	-90.26	162.3	-665.9	825.5	798.3	27.16	30.388		
6,100.0	6,088.1	6,135.5	6,090.1	13.9	17.6	-90.26	162.3	-665.9	825.5	797.9	27.58	29.930		
6,200.0	6,188.1	6,235.5	6,190.1	14.1	17.8	-90.26	162.3	-665.9	825.5	797.5	28.00	29.484		
6,300.0	6,288.1	6,335.5	6,290.1	14.3	17.9	-90.26	162.3	-665.9	825.5	797.0	28.41	29.050		
6,400.0	6,388.1	6,435.5	6,390.1	14.5	18.1	-90.26	162.3	-665.9	825.5	796.6	28.83	28.628		
6,417.2	6,405.3	6,452.7	6,407.3	14.5	18.1	90.94	162.3	-665.9	825.5	796.5	28.92	28.538		
6,500.0	6,488.0	6,535.3	6,490.0	14.7	18.3	91.19	162.3	-665.9	825.5	796.3	29.23	28.241		
6,600.0	6,585.4	6,632.8	6,587.4	14.8	18.4	92.57	162.3	-665.9	826.3	796.8	29.49	28.022		
6,700.0	6,677.0	6,734.3	6,688.8	14.9	18.6	94.83	157.9	-665.9	828.8	799.1	29.65	27.956		
6,800.0	6,759.2	6,848.1	6,799.1	15.0	18.7	97.18	130.9	-665.3	832.7	803.0	29.73	28.011		
6,900.0	6,829.1	6,973.5	6,910.6	15.1	18.8	99.39	74.3	-664.1	837.6	807.8	29.83	28.081		
7,000.0	6,884.2	7,111.5	7,013.8	15.3	18.8	101.29	-16.6	-662.3	842.5	812.4	30.10	27.987		
7,100.0	6,922.3	7,261.3	7,094.7	15.7	19.0	102.68	-142.2	-659.7	846.3	815.5	30.79	27.489		
7,200.0	6,942.1	7,419.2	7,137.7	16.3	19.5	103.29	-293.4	-656.6	848.1	816.0	32.10	26.419		
7,298.9	6,947.1	7,543.1	7,141.5	17.1	20.2	103.13	-417.2	-654.0	847.5	813.7	33.81	25.064		
7,300.0	6,944.7	7,544.3	7,141.5	17.2	20.2	103.28	-418.3	-654.0	848.0	814.2	33.81	25.081		
7,400.0	6,944.3	7,644.3	7,141.2	18.1	20.9	103.29	-518.3	-651.9	848.1	812.3	35.71	23.749		
7,500.0	6,943.8	7,744.3	7,140.8	19.3	21.9	103.30	-618.3	-649.9	848.1	810.2	37.89	22.385		
7,600.0	6,943.3	7,844.3	7,140.5	20.5	23.0	103.30	-718.3	-647.8	848.1	807.8	40.30	21.047		
7,700.0	6,942.8	7,944.3	7,140.1	21.9	24.2	103.31	-818.3	-645.7	848.1	805.2	42.90	19.769		
7,800.0	6,942.4	8,044.3	7,139.8	23.3	25.5	103.32	-918.2	-643.7	848.2	802.5	45.67	18.573		
7,900.0	6,941.9	8,144.3	7,139.4	24.8	26.8	103.33	-1,018.2	-641.6	848.2	799.6	48.57	17.464		
8,000.0	6,941.4	8,244.3	7,139.1	26.3	28.3	103.34	-1,118.2	-639.5	848.2	796.6	51.58	16.445		
8,100.0	6,941.0	8,344.3	7,138.7	27.9	29.8	103.35	-1,218.2	-637.5	848.2	793.6	54.68	15.513		
8,200.0	6,940.5	8,444.3	7,138.4	29.6	31.3	103.35	-1,318.1	-635.4	848.3	790.4	57.86	14.660		
8,300.0	6,940.0	8,544.3	7,138.0	31.2	32.9	103.36	-1,418.1	-633.4	848.3	787.2	61.11	13.882		
8,400.0	6,939.5	8,644.3	7,137.7	32.9	34.5	103.37	-1,518.1	-631.3	848.3	783.9	64.41	13.171		
8,500.0	6,939.1	8,744.3	7,137.4	34.7	36.2	103.38	-1,618.1	-629.2	848.4	780.6	67.76	12.520		
8,600.0	6,938.6	8,844.3	7,137.0	36.4	37.9	103.39	-1,718.1	-627.2	848.4	777.2	71.15	11.924		
8,700.0	6,938.1	8,944.3	7,136.7	38.2	39.6	103.39	-1,818.0	-625.1	848.4	773.8	74.57	11.377		
8,800.0	6,937.7	9,044.3	7,136.3	39.9	41.3	103.40	-1,918.0	-623.0	848.4	770.4	78.03	10.874		
8,900.0	6,937.2	9,144.3	7,136.0	41.7	43.0	103.41	-2,018.0	-621.0	848.5	767.0	81.51	10.409		
9,000.0	6,936.7	9,244.3	7,135.6	43.5	44.8	103.42	-2,118.0	-618.9	848.5	763.5	85.01	9.981		
9,100.0	6,936.2	9,344.3	7,135.3	45.3	46.5	103.43	-2,217.9	-616.9	848.5	760.0	88.54	9.584		
9,200.0	6,935.8	9,444.3	7,134.9	47.1	48.3	103.43	-2,317.9	-614.8	848.5	756.5	92.08	9.215		
9,300.0	6,935.3	9,544.3	7,134.6	49.0	50.1	103.44	-2,417.9	-612.7	848.6	752.9	95.64	8.872		
9,400.0	6,934.8	9,644.3	7,134.2	50.8	51.9	103.45	-2,517.9	-610.7	848.6	749.4	99.22	8.553		
9,500.0	6,934.4	9,744.3	7,133.9	52.6	53.7	103.46	-2,617.9	-608.6	848.6	745.8	102.80	8.255		
9,600.0	6,933.9	9,844.3	7,133.5	54.5	55.5	103.47	-2,717.8	-606.6	848.7	742.3	106.40	7.976		
9,700.0	6,933.4	9,944.3	7,133.2	56.3	57.4	103.47	-2,817.8	-604.5	848.7	738.7	110.01	7.715		
9,800.0	6,932.9	10,044.3	7,132.8	58.2	59.2	103.48	-2,917.8	-602.4	848.7	735.1	113.63	7.469		
9,900.0	6,932.5	10,144.3	7,132.5	60.1	61.0	103.49	-3,017.8	-600.4	848.7	731.5	117.25	7.239		
10,000.0	6,932.0	10,244.3	7,132.1	61.9	62.9	103.50	-3,117.7	-598.3	848.8	727.9	120.89	7.021		

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,100.0	6,931.5	10,344.3	7,131.8	63.8	64.7	103.51	-3,217.7	-596.2	848.8	724.3	124.53	6.816		
10,200.0	6,931.1	10,444.3	7,131.4	65.7	66.5	103.51	-3,317.7	-594.2	848.8	720.7	128.17	6.623		
10,300.0	6,930.6	10,544.3	7,131.1	67.5	68.4	103.52	-3,417.7	-592.1	848.9	717.0	131.83	6.439		
10,400.0	6,930.1	10,644.3	7,130.7	69.4	70.3	103.53	-3,517.7	-590.1	848.9	713.4	135.48	6.266		
10,500.0	6,929.6	10,744.3	7,130.4	71.3	72.1	103.54	-3,617.6	-588.0	848.9	709.8	139.15	6.101		
10,600.0	6,929.2	10,844.3	7,130.0	73.2	74.0	103.55	-3,717.6	-585.9	848.9	706.1	142.81	5.944		
10,700.0	6,928.7	10,944.3	7,129.7	75.0	75.8	103.55	-3,817.6	-583.9	849.0	702.5	146.48	5.796		
10,800.0	6,928.2	11,044.3	7,129.3	76.9	77.7	103.56	-3,917.6	-581.8	849.0	698.8	150.16	5.654		
10,900.0	6,927.8	11,144.3	7,129.0	78.8	79.6	103.57	-4,017.5	-579.8	849.0	695.2	153.84	5.519		
11,000.0	6,927.3	11,244.3	7,128.6	80.7	81.5	103.58	-4,117.5	-577.7	849.1	691.5	157.52	5.390		
11,100.0	6,926.8	11,344.3	7,128.3	82.6	83.3	103.59	-4,217.5	-575.6	849.1	687.9	161.21	5.267		
11,200.0	6,926.4	11,444.3	7,127.9	84.5	85.2	103.59	-4,317.5	-573.6	849.1	684.2	164.89	5.149		
11,300.0	6,925.9	11,544.3	7,127.6	86.4	87.1	103.60	-4,417.5	-571.5	849.1	680.6	168.58	5.037		
11,400.0	6,925.4	11,644.3	7,127.2	88.3	89.0	103.61	-4,517.4	-569.4	849.2	676.9	172.28	4.929		
11,442.0	6,925.2	11,686.3	7,127.1	89.1	89.8	103.61	-4,559.4	-568.6	849.2	675.3	173.83	4.885		
11,486.7	6,925.0	11,709.6	7,127.0	89.9	90.2	103.62	-4,582.8	-568.1	849.5	674.4	175.09	4.852 SF		

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-90.00	0.0	-61.6	61.6	61.6	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	-90.00	0.0	-61.6	61.6	61.3	0.23	271.163		
200.0	200.0	201.0	201.0	0.3	0.3	-90.00	0.0	-61.6	61.6	60.9	0.68	90.988		
300.0	300.0	301.0	301.0	0.6	0.6	-90.00	0.0	-61.6	61.6	60.4	1.13	54.666		
400.0	400.0	401.0	401.0	0.8	0.8	-90.00	0.0	-61.6	61.6	60.0	1.58	39.069		
500.0	500.0	501.0	501.0	1.0	1.0	-90.00	0.0	-61.6	61.6	59.5	2.03	30.397		
600.0	600.0	601.0	601.0	1.2	1.2	-90.00	0.0	-61.6	61.6	59.1	2.47	24.875		
700.0	700.0	701.0	701.0	1.5	1.5	-90.00	0.0	-61.6	61.6	58.6	2.92	21.051		
800.0	800.0	801.0	801.0	1.7	1.7	-90.00	0.0	-61.6	61.6	58.2	3.37	18.246		
900.0	900.0	901.0	901.0	1.9	1.9	-90.00	0.0	-61.6	61.6	57.7	3.82	16.101		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-90.00	0.0	-61.6	61.6	57.3	4.27	14.407		
1,100.0	1,100.0	1,101.0	1,101.0	2.4	2.4	-90.00	0.0	-61.6	61.6	56.8	4.72	13.035		
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	-90.00	0.0	-61.6	61.6	56.4	5.17	11.902		
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	-90.00	0.0	-61.6	61.6	55.9	5.62	10.951		
1,366.3	1,366.3	1,367.3	1,367.3	3.0	3.0	-90.00	0.0	-61.6	61.6	55.6	5.92	10.399 CC		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-90.00	0.0	-61.6	61.6	55.5	6.07	10.145 ES		
1,500.0	1,500.0	1,499.0	1,498.9	3.3	3.2	-89.46	0.6	-63.2	63.2	56.7	6.51	9.712		
1,600.0	1,600.0	1,596.7	1,596.6	3.5	3.5	-88.03	2.3	-67.9	68.1	61.1	6.94	9.811		
1,700.0	1,700.0	1,694.0	1,693.4	3.7	3.7	-130.54	5.2	-75.7	77.1	69.7	7.37	10.466		
1,800.0	1,799.9	1,790.3	1,789.1	3.9	3.9	-130.07	9.2	-86.5	91.0	83.2	7.79	11.683		
1,900.0	1,899.7	1,887.7	1,885.5	4.1	4.2	-130.32	14.1	-99.6	109.0	100.8	8.22	13.260		
2,000.0	1,999.3	1,985.7	1,982.5	4.4	4.4	-131.31	19.0	-113.0	128.8	120.2	8.65	14.893		
2,100.0	2,098.7	2,083.4	2,079.1	4.6	4.7	-132.66	23.9	-126.4	149.9	140.8	9.09	16.487		
2,200.0	2,198.1	2,181.1	2,175.8	4.9	5.0	-133.74	28.9	-139.7	171.1	161.5	9.54	17.925		
2,300.0	2,297.5	2,278.8	2,272.4	5.1	5.3	-134.58	33.8	-153.1	192.3	182.3	10.00	19.225		
2,400.0	2,396.8	2,376.5	2,369.1	5.4	5.6	-135.26	38.7	-166.4	213.5	203.0	10.47	20.402		
2,500.0	2,496.2	2,474.2	2,465.7	5.6	5.9	-135.81	43.7	-179.8	234.8	223.8	10.93	21.470		
2,600.0	2,595.6	2,571.9	2,562.4	5.9	6.2	-136.27	48.6	-193.1	256.1	244.6	11.41	22.442		
2,700.0	2,695.0	2,669.6	2,659.0	6.2	6.5	-136.66	53.5	-206.5	277.3	265.5	11.89	23.330		
2,800.0	2,794.4	2,767.3	2,755.6	6.4	6.8	-136.99	58.5	-219.8	298.7	286.3	12.37	24.143		
2,900.0	2,893.8	2,864.9	2,852.3	6.7	7.1	-137.28	63.4	-233.2	320.0	307.1	12.86	24.889		
3,000.0	2,993.2	2,962.6	2,948.9	7.0	7.4	-137.54	68.3	-246.5	341.3	327.9	13.34	25.576		
3,100.0	3,092.6	3,060.3	3,045.6	7.3	7.8	-137.76	73.3	-259.9	362.6	348.8	13.84	26.209		
3,200.0	3,192.0	3,158.0	3,142.2	7.5	8.1	-137.96	78.2	-273.2	384.0	369.6	14.33	26.796		
3,300.0	3,291.4	3,255.7	3,238.9	7.8	8.4	-138.14	83.1	-286.6	405.3	390.5	14.82	27.340		
3,400.0	3,390.8	3,353.4	3,335.5	8.1	8.8	-138.30	88.1	-299.9	426.6	411.3	15.32	27.845		
3,500.0	3,490.2	3,451.1	3,432.2	8.4	9.1	-138.44	93.0	-313.3	448.0	432.1	15.82	28.316		
3,600.0	3,589.5	3,548.8	3,528.8	8.7	9.4	-138.57	97.9	-326.6	469.3	453.0	16.32	28.755		
3,700.0	3,688.9	3,646.5	3,625.5	9.0	9.8	-138.71	102.9	-340.0	490.7	473.8	16.82	29.165		
3,800.0	3,788.5	3,744.4	3,722.4	9.2	10.1	-138.91	107.8	-353.4	510.9	493.6	17.30	29.526		
3,900.0	3,888.3	3,842.7	3,819.6	9.4	10.4	-138.89	112.8	-366.8	529.1	511.4	17.77	29.780		
4,000.0	3,988.2	3,941.3	3,917.2	9.6	10.8	-138.69	117.7	-380.3	545.5	527.2	18.22	29.939		
4,100.0	4,088.1	4,040.1	4,014.9	9.7	11.1	-138.31	122.7	-393.8	559.9	541.2	18.66	30.012		
4,200.0	4,188.1	4,139.1	4,112.8	9.9	11.4	-93.86	127.7	-407.3	573.2	554.1	19.08	30.048		
4,300.0	4,288.1	4,238.0	4,210.7	10.1	11.8	-93.28	132.7	-420.8	586.5	567.0	19.53	30.034		
4,400.0	4,388.1	4,336.9	4,308.6	10.3	12.1	-92.73	137.7	-434.3	599.9	580.0	19.98	30.023		
4,500.0	4,488.1	4,435.9	4,406.4	10.5	12.5	-92.20	142.7	-447.8	613.4	593.0	20.44	30.015		
4,600.0	4,588.1	4,534.8	4,504.3	10.7	12.8	-91.69	147.7	-461.4	626.9	606.0	20.89	30.010		
4,700.0	4,688.1	4,638.9	4,607.4	10.9	13.2	-91.18	152.9	-475.5	640.4	619.0	21.35	29.995		
4,800.0	4,788.1	4,764.7	4,732.3	11.1	13.5	-90.71	158.0	-489.1	651.1	629.3	21.82	29.843		
4,900.0	4,888.1	4,891.6	4,858.8	11.4	13.7	-90.43	161.1	-497.6	657.8	635.5	22.27	29.543		
5,000.0	4,988.1	5,019.0	4,986.2	11.6	14.0	-90.32	162.3	-500.8	660.3	637.6	22.70	29.085		

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.0	5,088.1	5,121.9	5,089.1	11.8	14.1	-90.32	162.3	-500.9	660.4	637.3	23.11	28.573		
5,200.0	5,188.1	5,221.9	5,189.1	12.0	14.3	-90.32	162.3	-500.9	660.4	636.8	23.53	28.070		
5,300.0	5,288.1	5,321.9	5,289.1	12.2	14.5	-90.32	162.3	-500.9	660.4	636.4	23.94	27.582		
5,400.0	5,388.1	5,421.9	5,389.1	12.4	14.6	-90.32	162.3	-500.9	660.4	636.0	24.36	27.109		
5,500.0	5,488.1	5,521.9	5,489.1	12.6	14.8	-90.32	162.3	-500.9	660.4	635.6	24.78	26.651		
5,600.0	5,588.1	5,621.9	5,589.1	12.8	15.0	-90.32	162.3	-500.9	660.4	635.2	25.20	26.207		
5,700.0	5,688.1	5,721.9	5,689.1	13.0	15.2	-90.32	162.3	-500.9	660.4	634.7	25.62	25.777		
5,800.0	5,788.1	5,821.9	5,789.1	13.2	15.4	-90.32	162.3	-500.9	660.4	634.3	26.04	25.360		
5,900.0	5,888.1	5,921.9	5,889.1	13.5	15.5	-90.32	162.3	-500.9	660.4	633.9	26.46	24.955		
6,000.0	5,988.1	6,021.9	5,989.1	13.7	15.7	-90.32	162.3	-500.9	660.4	633.5	26.89	24.562		
6,100.0	6,088.1	6,121.9	6,089.1	13.9	15.9	-90.32	162.3	-500.9	660.4	633.1	27.31	24.181		
6,200.0	6,188.1	6,221.9	6,189.1	14.1	16.1	-90.32	162.3	-500.9	660.4	632.6	27.73	23.810		
6,300.0	6,288.1	6,321.9	6,289.1	14.3	16.3	-90.32	162.3	-500.9	660.4	632.2	28.16	23.450		
6,400.0	6,388.1	6,421.9	6,389.1	14.5	16.5	-90.32	162.3	-500.9	660.4	631.8	28.59	23.101		
6,500.0	6,488.0	6,523.2	6,490.2	14.7	16.6	90.86	158.3	-500.8	660.4	631.4	28.96	22.801		
6,600.0	6,585.4	6,625.1	6,589.5	14.8	16.7	90.84	136.0	-500.3	660.4	631.2	29.16	22.645		
6,700.0	6,677.0	6,727.0	6,682.5	14.9	16.8	90.79	94.8	-499.5	660.4	631.1	29.29	22.547		
6,800.0	6,759.2	6,828.6	6,765.5	15.0	16.8	90.71	36.5	-498.3	660.3	630.9	29.44	22.430		
6,900.0	6,829.1	6,930.1	6,835.6	15.1	16.9	90.60	-36.7	-496.8	660.3	630.6	29.74	22.200		
7,000.0	6,884.2	7,031.3	6,890.0	15.3	17.0	90.47	-121.8	-495.0	660.3	630.0	30.32	21.779		
7,100.0	6,922.3	7,132.2	6,926.9	15.7	17.3	90.32	-215.5	-493.1	660.3	629.0	31.25	21.129		
7,200.0	6,942.1	7,232.7	6,945.0	16.3	17.7	90.16	-314.2	-491.0	660.3	627.7	32.56	20.277		
7,300.0	6,944.7	7,332.8	6,946.6	17.2	18.4	90.08	-414.3	-489.0	660.3	626.1	34.24	19.286		
7,400.0	6,944.3	7,432.8	6,946.2	18.1	19.3	90.08	-514.2	-486.9	660.3	624.1	36.22	18.230		
7,500.0	6,943.8	7,532.8	6,945.7	19.3	20.4	90.08	-614.2	-484.8	660.3	621.8	38.49	17.156		
7,600.0	6,943.3	7,632.8	6,945.2	20.5	21.6	90.08	-714.2	-482.8	660.3	619.3	40.99	16.109		
7,700.0	6,942.8	7,732.8	6,944.8	21.9	22.9	90.08	-814.2	-480.7	660.3	616.6	43.69	15.113		
7,800.0	6,942.4	7,832.8	6,944.3	23.3	24.2	90.08	-914.2	-478.7	660.3	613.7	46.55	14.184		
7,900.0	6,941.9	7,932.8	6,943.8	24.8	25.7	90.08	-1,014.1	-476.6	660.3	610.7	49.55	13.327		
8,000.0	6,941.4	8,032.8	6,943.3	26.3	27.2	90.08	-1,114.1	-474.5	660.3	607.6	52.65	12.541		
8,100.0	6,941.0	8,132.8	6,942.9	27.9	28.8	90.08	-1,214.1	-472.5	660.3	604.4	55.85	11.822		
8,200.0	6,940.5	8,232.8	6,942.4	29.6	30.4	90.08	-1,314.1	-470.4	660.3	601.2	59.13	11.167		
8,300.0	6,940.0	8,332.8	6,941.9	31.2	32.0	90.08	-1,414.0	-468.3	660.3	597.8	62.47	10.570		
8,400.0	6,939.5	8,432.8	6,941.5	32.9	33.6	90.08	-1,514.0	-466.3	660.3	594.4	65.86	10.025		
8,500.0	6,939.1	8,532.8	6,941.0	34.7	35.3	90.08	-1,614.0	-464.2	660.3	591.0	69.31	9.527		
8,600.0	6,938.6	8,632.8	6,940.5	36.4	37.1	90.08	-1,714.0	-462.2	660.3	587.5	72.79	9.071		
8,700.0	6,938.1	8,732.8	6,940.1	38.2	38.8	90.08	-1,814.0	-460.1	660.3	584.0	76.31	8.652		
8,800.0	6,937.7	8,832.8	6,939.6	39.9	40.5	90.08	-1,913.9	-458.0	660.3	580.4	79.86	8.268		
8,900.0	6,937.2	8,932.8	6,939.1	41.7	42.3	90.08	-2,013.9	-456.0	660.3	576.8	83.44	7.913		
9,000.0	6,936.7	9,032.8	6,938.6	43.5	44.1	90.08	-2,113.9	-453.9	660.3	573.2	87.04	7.586		
9,100.0	6,936.2	9,132.8	6,938.2	45.3	45.9	90.08	-2,213.9	-451.8	660.3	569.6	90.66	7.283		
9,200.0	6,935.8	9,232.8	6,937.7	47.1	47.7	90.08	-2,313.8	-449.8	660.3	566.0	94.29	7.002		
9,300.0	6,935.3	9,332.8	6,937.2	49.0	49.5	90.08	-2,413.8	-447.7	660.3	562.3	97.95	6.741		
9,400.0	6,934.8	9,432.8	6,936.8	50.8	51.3	90.08	-2,513.8	-445.7	660.3	558.6	101.61	6.498		
9,500.0	6,934.4	9,532.8	6,936.3	52.6	53.1	90.08	-2,613.8	-443.6	660.3	555.0	105.30	6.271		
9,600.0	6,933.9	9,632.8	6,935.8	54.5	55.0	90.08	-2,713.7	-441.5	660.3	551.3	108.99	6.058		
9,700.0	6,933.4	9,732.8	6,935.3	56.3	56.8	90.08	-2,813.7	-439.5	660.3	547.6	112.69	5.859		
9,800.0	6,932.9	9,832.8	6,934.9	58.2	58.6	90.08	-2,913.7	-437.4	660.3	543.9	116.40	5.672		
9,900.0	6,932.5	9,932.8	6,934.4	60.1	60.5	90.08	-3,013.7	-435.3	660.3	540.1	120.12	5.497		
10,000.0	6,932.0	10,032.8	6,933.9	61.9	62.3	90.08	-3,113.7	-433.3	660.3	536.4	123.85	5.331		
10,100.0	6,931.5	10,132.8	6,933.5	63.8	64.2	90.08	-3,213.6	-431.2	660.3	532.7	127.59	5.175		
10,200.0	6,931.1	10,232.8	6,933.0	65.7	66.1	90.08	-3,313.6	-429.2	660.3	528.9	131.33	5.027		

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	6,930.6	10,332.8	6,932.5	67.5	67.9	90.08	-3,413.6	-427.1	660.3	525.2	135.08	4.888			
10,400.0	6,930.1	10,432.8	6,932.0	69.4	69.8	90.08	-3,513.6	-425.0	660.3	521.4	138.83	4.756			
10,500.0	6,929.6	10,532.8	6,931.6	71.3	71.7	90.08	-3,613.5	-423.0	660.3	517.7	142.59	4.630			
10,600.0	6,929.2	10,632.8	6,931.1	73.2	73.5	90.08	-3,713.5	-420.9	660.3	513.9	146.35	4.511			
10,700.0	6,928.7	10,732.8	6,930.6	75.0	75.4	90.08	-3,813.5	-418.9	660.3	510.1	150.12	4.398			
10,800.0	6,928.2	10,832.8	6,930.2	76.9	77.3	90.08	-3,913.5	-416.8	660.2	506.4	153.89	4.290			
10,900.0	6,927.8	10,932.8	6,929.7	78.8	79.2	90.08	-4,013.5	-414.7	660.2	502.6	157.67	4.188			
11,000.0	6,927.3	11,032.8	6,929.2	80.7	81.1	90.08	-4,113.4	-412.7	660.2	498.8	161.44	4.090			
11,100.0	6,926.8	11,132.8	6,928.7	82.6	82.9	90.08	-4,213.4	-410.6	660.2	495.0	165.23	3.996			
11,200.0	6,926.4	11,232.8	6,928.3	84.5	84.8	90.08	-4,313.4	-408.5	660.2	491.2	169.01	3.907			
11,300.0	6,925.9	11,332.8	6,927.8	86.4	86.7	90.08	-4,413.4	-406.5	660.2	487.4	172.80	3.821			
11,400.0	6,925.4	11,432.8	6,927.3	88.3	88.6	90.08	-4,513.3	-404.4	660.2	483.7	176.59	3.739			
11,455.6	6,925.1	11,488.5	6,927.1	89.3	89.6	90.08	-4,569.0	-403.3	660.2	481.5	178.70	3.695			
11,486.7	6,925.0	11,502.3	6,927.0	89.9	89.9	90.08	-4,582.8	-403.0	660.5	480.9	179.55	3.679 SF			

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference				Offset			Semi Major Axis			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	1.0	1.0	0.0	0.0	-90.01	0.0	-44.8	44.8	44.8	0.00	N/A			
100.0	100.0	101.0	101.0	0.1	0.1	-90.01	0.0	-44.8	44.8	44.5	0.23	197.209			
200.0	200.0	201.0	201.0	0.3	0.3	-90.01	0.0	-44.8	44.8	44.1	0.68	66.173			
300.0	300.0	301.0	301.0	0.6	0.6	-90.01	0.0	-44.8	44.8	43.6	1.13	39.757			
400.0	400.0	401.0	401.0	0.8	0.8	-90.01	0.0	-44.8	44.8	43.2	1.58	28.414			
500.0	500.0	501.0	501.0	1.0	1.0	-90.01	0.0	-44.8	44.8	42.7	2.03	22.107			
600.0	600.0	601.0	601.0	1.2	1.2	-90.01	0.0	-44.8	44.8	42.3	2.47	18.091			
700.0	700.0	701.0	701.0	1.5	1.5	-90.01	0.0	-44.8	44.8	41.8	2.92	15.310			
800.0	800.0	801.0	801.0	1.7	1.7	-90.01	0.0	-44.8	44.8	41.4	3.37	13.270			
900.0	900.0	901.0	901.0	1.9	1.9	-90.01	0.0	-44.8	44.8	40.9	3.82	11.710			
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-90.01	0.0	-44.8	44.8	40.5	4.27	10.478			
1,100.0	1,100.0	1,101.0	1,101.0	2.4	2.4	-90.01	0.0	-44.8	44.8	40.0	4.72	9.480			
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	-90.01	0.0	-44.8	44.8	39.6	5.17	8.656			
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	-90.01	0.0	-44.8	44.8	39.1	5.62	7.964			
1,400.0	1,400.0	1,401.0	1,401.0	3.0	3.0	-90.01	0.0	-44.8	44.8	38.7	6.07	7.374			
1,500.0	1,500.0	1,501.0	1,501.0	3.3	3.3	-90.01	0.0	-44.8	44.8	38.2	6.52	6.866			
1,566.3	1,566.3	1,567.3	1,567.3	3.4	3.4	-90.01	0.0	-44.8	44.8	38.0	6.82	6.566	CC		
1,600.0	1,600.0	1,601.0	1,601.0	3.5	3.5	-90.01	0.0	-44.8	44.8	37.8	6.97	6.423	ES		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-133.94	0.8	-46.3	47.2	39.8	7.40	6.376			
1,800.0	1,799.9	1,797.8	1,797.6	3.9	3.9	-134.17	3.3	-50.7	54.5	46.6	7.83	6.957			
1,900.0	1,899.7	1,895.3	1,894.8	4.1	4.1	-134.42	7.4	-58.0	66.5	58.2	8.25	8.055			
2,000.0	1,999.3	1,992.1	1,990.9	4.4	4.4	-134.64	13.0	-68.1	83.2	74.5	8.68	9.581			
2,100.0	2,098.7	2,090.3	2,088.2	4.6	4.6	-135.27	19.3	-79.4	102.1	93.0	9.12	11.199			
2,200.0	2,198.1	2,188.4	2,185.5	4.9	4.9	-135.75	25.5	-90.6	121.2	111.6	9.57	12.661			
2,300.0	2,297.5	2,286.6	2,282.9	5.1	5.1	-136.09	31.8	-101.8	140.2	130.2	10.03	13.981			
2,400.0	2,396.8	2,384.8	2,380.2	5.4	5.4	-136.36	38.1	-113.0	159.2	148.7	10.49	15.177			
2,500.0	2,496.2	2,483.0	2,477.5	5.6	5.7	-136.57	44.3	-124.2	178.2	167.3	10.96	16.264			
2,600.0	2,595.6	2,581.1	2,574.8	5.9	5.9	-136.74	50.6	-135.5	197.3	185.8	11.43	17.254			
2,700.0	2,695.0	2,679.3	2,672.2	6.2	6.2	-136.88	56.8	-146.7	216.3	204.4	11.91	18.158			
2,800.0	2,794.4	2,777.5	2,769.5	6.4	6.5	-136.99	63.1	-157.9	235.3	223.0	12.40	18.986			
2,900.0	2,893.8	2,875.6	2,866.8	6.7	6.8	-137.09	69.4	-169.1	254.4	241.5	12.88	19.746			
3,000.0	2,993.2	2,973.8	2,964.1	7.0	7.1	-137.18	75.6	-180.4	273.4	260.0	13.37	20.447			
3,100.0	3,092.6	3,072.0	3,061.5	7.3	7.4	-137.25	81.9	-191.6	292.5	278.6	13.86	21.093			
3,200.0	3,192.0	3,170.1	3,158.8	7.5	7.7	-137.32	88.1	-202.8	311.5	297.1	14.36	21.691			
3,300.0	3,291.4	3,268.3	3,256.1	7.8	8.0	-137.37	94.4	-214.0	330.5	315.7	14.86	22.247			
3,400.0	3,390.8	3,366.5	3,353.4	8.1	8.3	-137.42	100.7	-225.3	349.6	334.2	15.36	22.763			
3,500.0	3,490.2	3,464.7	3,450.8	8.4	8.6	-137.47	106.9	-236.5	368.6	352.7	15.86	23.243			
3,600.0	3,589.5	3,562.8	3,548.1	8.7	8.9	-137.51	113.2	-247.7	387.6	371.3	16.36	23.692			
3,700.0	3,688.9	3,661.0	3,645.4	9.0	9.2	-137.57	119.4	-258.9	406.7	389.8	16.87	24.111			
3,800.0	3,788.5	3,759.4	3,743.0	9.2	9.6	-137.64	125.7	-270.2	424.6	407.2	17.34	24.481			
3,900.0	3,888.3	3,858.1	3,840.8	9.4	9.9	-137.67	132.0	-281.5	440.6	422.8	17.81	24.742			
4,000.0	3,988.2	3,957.0	3,938.8	9.6	10.2	-137.08	138.3	-292.8	454.7	436.5	18.26	24.906			
4,100.0	4,088.1	4,056.0	4,037.1	9.7	10.5	-136.48	144.6	-304.1	467.0	448.3	18.69	24.984			
4,200.0	4,188.1	4,156.9	4,137.1	9.9	10.8	-91.80	151.1	-315.6	478.2	459.1	19.12	25.012			
4,300.0	4,288.1	4,273.3	4,252.8	10.1	11.1	-91.05	157.1	-326.4	487.4	467.8	19.57	24.910			
4,400.0	4,388.1	4,390.4	4,369.7	10.3	11.3	-90.60	160.9	-333.2	493.1	473.1	19.99	24.661			
4,500.0	4,488.1	4,508.0	4,487.2	10.5	11.5	-90.43	162.3	-335.7	495.3	474.8	20.41	24.261			
4,600.0	4,588.1	4,610.0	4,589.1	10.7	11.7	-90.43	162.3	-335.8	495.3	474.5	20.82	23.792			
4,700.0	4,688.1	4,710.0	4,689.1	10.9	11.9	-90.43	162.3	-335.8	495.3	474.0	21.23	23.325			
4,800.0	4,788.1	4,810.0	4,789.1	11.1	12.1	-90.43	162.3	-335.8	495.3	473.6	21.65	22.874			
4,900.0	4,888.1	4,910.0	4,889.1	11.4	12.3	-90.43	162.3	-335.8	495.3	473.2	22.07	22.439			
5,000.0	4,988.1	5,010.0	4,989.1	11.6	12.5	-90.43	162.3	-335.8	495.3	472.8	22.49	22.019			

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,100.0	5,088.1	5,110.0	5,089.1	11.8	12.7	-90.43	162.3	-335.8	495.3	472.4	22.92	21.614			
5,200.0	5,188.1	5,210.0	5,189.1	12.0	12.9	-90.43	162.3	-335.8	495.3	471.9	23.34	21.222			
5,300.0	5,288.1	5,310.0	5,289.1	12.2	13.1	-90.43	162.3	-335.8	495.3	471.5	23.76	20.844			
5,400.0	5,388.1	5,410.0	5,389.1	12.4	13.2	-90.43	162.3	-335.8	495.3	471.1	24.19	20.477			
5,500.0	5,488.1	5,510.0	5,489.1	12.6	13.4	-90.43	162.3	-335.8	495.3	470.7	24.61	20.123			
5,600.0	5,588.1	5,610.0	5,589.1	12.8	13.6	-90.43	162.3	-335.8	495.3	470.2	25.04	19.780			
5,700.0	5,688.1	5,710.0	5,689.1	13.0	13.8	-90.43	162.3	-335.8	495.3	469.8	25.47	19.449			
5,800.0	5,788.1	5,810.0	5,789.1	13.2	14.0	-90.43	162.3	-335.8	495.3	469.4	25.89	19.127			
5,900.0	5,888.1	5,910.0	5,889.1	13.5	14.2	-90.43	162.3	-335.8	495.3	469.0	26.32	18.815			
6,000.0	5,988.1	6,010.0	5,989.1	13.7	14.4	-90.43	162.3	-335.8	495.3	468.5	26.75	18.513			
6,100.0	6,088.1	6,110.0	6,089.1	13.9	14.6	-90.43	162.3	-335.8	495.3	468.1	27.18	18.220			
6,200.0	6,188.1	6,210.0	6,189.1	14.1	14.8	-90.43	162.3	-335.8	495.3	467.7	27.61	17.936			
6,300.0	6,288.1	6,310.0	6,289.1	14.3	15.0	-90.43	162.3	-335.8	495.3	467.2	28.04	17.660			
6,400.0	6,388.1	6,410.0	6,389.1	14.5	15.2	-90.43	162.3	-335.8	495.3	466.8	28.48	17.392			
6,500.0	6,488.0	6,510.0	6,489.8	14.7	15.4	90.75	158.3	-335.7	495.3	466.4	28.84	17.175			
6,600.0	6,585.4	6,612.0	6,588.4	14.8	15.5	90.71	136.0	-335.2	495.3	466.2	29.04	17.057			
6,700.0	6,677.0	6,713.2	6,680.8	14.9	15.6	90.65	95.2	-334.4	495.3	466.1	29.16	16.985			
6,800.0	6,759.2	6,814.2	6,763.4	15.0	15.7	90.57	37.4	-333.2	495.3	466.0	29.31	16.897			
6,900.0	6,829.1	6,915.1	6,833.3	15.1	15.7	90.47	-35.1	-331.7	495.3	465.6	29.61	16.725			
7,000.0	6,884.2	7,015.7	6,887.8	15.3	15.9	90.35	-119.5	-330.0	495.2	465.1	30.19	16.407			
7,100.0	6,922.3	7,116.2	6,925.1	15.7	16.2	90.21	-212.6	-328.0	495.2	464.1	31.12	15.916			
7,200.0	6,942.1	7,216.4	6,943.7	16.3	16.7	90.07	-310.9	-326.0	495.2	462.8	32.43	15.272			
7,300.0	6,944.7	7,316.4	6,945.7	17.2	17.5	89.99	-410.9	-323.9	495.2	461.1	34.10	14.525			
7,400.0	6,944.3	7,416.4	6,945.2	18.1	18.5	89.99	-510.8	-321.9	495.2	459.1	36.08	13.725			
7,500.0	6,943.8	7,516.4	6,944.7	19.3	19.6	89.99	-610.8	-319.8	495.2	456.9	38.35	12.912			
7,600.0	6,943.3	7,616.4	6,944.3	20.5	20.9	89.99	-710.8	-317.8	495.2	454.4	40.86	12.119			
7,700.0	6,942.8	7,716.4	6,943.8	21.9	22.2	89.99	-810.8	-315.7	495.2	451.7	43.57	11.367			
7,800.0	6,942.4	7,816.4	6,943.3	23.3	23.6	89.99	-910.7	-313.6	495.2	448.8	46.43	10.665			
7,900.0	6,941.9	7,916.4	6,942.8	24.8	25.1	89.99	-1,010.7	-311.6	495.2	445.8	49.43	10.018			
8,000.0	6,941.4	8,016.4	6,942.4	26.3	26.6	89.99	-1,110.7	-309.5	495.2	442.7	52.54	9.425			
8,100.0	6,941.0	8,116.4	6,941.9	27.9	28.2	89.99	-1,210.7	-307.4	495.2	439.5	55.75	8.883			
8,200.0	6,940.5	8,216.4	6,941.4	29.6	29.8	89.99	-1,310.7	-305.4	495.2	436.2	59.03	8.390			
8,300.0	6,940.0	8,316.4	6,941.0	31.2	31.5	89.99	-1,410.6	-303.3	495.2	432.8	62.37	7.940			
8,400.0	6,939.5	8,416.4	6,940.5	32.9	33.2	89.99	-1,510.6	-301.3	495.2	429.4	65.77	7.529			
8,500.0	6,939.1	8,516.4	6,940.0	34.7	34.9	89.99	-1,610.6	-299.2	495.2	426.0	69.22	7.155			
8,600.0	6,938.6	8,616.4	6,939.5	36.4	36.6	89.99	-1,710.6	-297.1	495.2	422.5	72.70	6.811			
8,700.0	6,938.1	8,716.4	6,939.1	38.2	38.4	89.99	-1,810.5	-295.1	495.2	419.0	76.23	6.497			
8,800.0	6,937.7	8,816.4	6,938.6	39.9	40.1	89.99	-1,910.5	-293.0	495.2	415.4	79.78	6.207			
8,900.0	6,937.2	8,916.4	6,938.1	41.7	41.9	89.99	-2,010.5	-290.9	495.2	411.8	83.35	5.941			
9,000.0	6,936.7	9,016.4	6,937.7	43.5	43.7	89.99	-2,110.5	-288.9	495.2	408.2	86.96	5.695			
9,100.0	6,936.2	9,116.4	6,937.2	45.3	45.5	89.99	-2,210.5	-286.8	495.2	404.6	90.58	5.467			
9,200.0	6,935.8	9,216.4	6,936.7	47.1	47.3	89.99	-2,310.4	-284.8	495.2	401.0	94.22	5.256			
9,300.0	6,935.3	9,316.4	6,936.2	49.0	49.1	89.99	-2,410.4	-282.7	495.2	397.3	97.87	5.060			
9,400.0	6,934.8	9,416.4	6,935.8	50.8	51.0	89.99	-2,510.4	-280.6	495.2	393.7	101.54	4.877			
9,500.0	6,934.4	9,516.4	6,935.3	52.6	52.8	89.99	-2,610.4	-278.6	495.2	390.0	105.22	4.706			
9,600.0	6,933.9	9,616.4	6,934.8	54.5	54.7	89.99	-2,710.3	-276.5	495.2	386.3	108.92	4.547			
9,700.0	6,933.4	9,716.4	6,934.4	56.3	56.5	89.99	-2,810.3	-274.4	495.2	382.6	112.62	4.397			
9,800.0	6,932.9	9,816.4	6,933.9	58.2	58.4	89.99	-2,910.3	-272.4	495.2	378.9	116.33	4.257			
9,900.0	6,932.5	9,916.4	6,933.4	60.1	60.2	89.99	-3,010.3	-270.3	495.2	375.1	120.06	4.125			
10,000.0	6,932.0	10,016.4	6,932.9	61.9	62.1	89.99	-3,110.3	-268.3	495.2	371.4	123.78	4.000			
10,100.0	6,931.5	10,116.4	6,932.5	63.8	63.9	89.99	-3,210.2	-266.2	495.2	367.7	127.52	3.883			
10,200.0	6,931.1	10,216.4	6,932.0	65.7	65.8	89.99	-3,310.2	-264.1	495.2	363.9	131.26	3.772			

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	6,930.6	10,316.4	6,931.5	67.5	67.7	89.99	-3,410.2	-262.1	495.2	360.2	135.01	3.668			
10,400.0	6,930.1	10,416.4	6,931.1	69.4	69.5	89.99	-3,510.2	-260.0	495.2	356.4	138.77	3.568			
10,500.0	6,929.6	10,516.4	6,930.6	71.3	71.4	89.99	-3,610.1	-257.9	495.2	352.7	142.53	3.474			
10,600.0	6,929.2	10,616.4	6,930.1	73.2	73.3	89.99	-3,710.1	-255.9	495.2	348.9	146.29	3.385			
10,700.0	6,928.7	10,716.4	6,929.6	75.0	75.2	89.99	-3,810.1	-253.8	495.2	345.1	150.06	3.300			
10,800.0	6,928.2	10,816.4	6,929.2	76.9	77.1	89.99	-3,910.1	-251.8	495.2	341.3	153.83	3.219			
10,900.0	6,927.8	10,916.4	6,928.7	78.8	78.9	89.99	-4,010.1	-249.7	495.2	337.6	157.60	3.142			
11,000.0	6,927.3	11,016.4	6,928.2	80.7	80.8	89.99	-4,110.0	-247.6	495.2	333.8	161.38	3.068			
11,100.0	6,926.8	11,116.4	6,927.8	82.6	82.7	89.99	-4,210.0	-245.6	495.2	330.0	165.17	2.998			
11,200.0	6,926.4	11,216.4	6,927.3	84.5	84.6	89.99	-4,310.0	-243.5	495.2	326.2	168.95	2.931			
11,300.0	6,925.9	11,316.4	6,926.8	86.4	86.5	89.99	-4,410.0	-241.4	495.2	322.4	172.74	2.867			
11,400.0	6,925.4	11,416.4	6,926.3	88.3	88.4	89.99	-4,509.9	-239.4	495.2	318.6	176.53	2.805			
11,457.3	6,925.1	11,473.8	6,926.1	89.4	89.5	89.99	-4,567.3	-238.2	495.2	316.5	178.70	2.771			
11,486.7	6,925.0	11,489.3	6,926.0	89.9	89.8	89.99	-4,582.8	-237.9	495.4	315.8	179.55	2.759 SF			

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	1.0	1.0	0.0	0.0	-89.96	0.0	-30.8	30.8	30.8	0.00	N/A			
100.0	100.0	101.0	101.0	0.1	0.1	-89.96	0.0	-30.8	30.8	30.6	0.23	135.581			
200.0	200.0	201.0	201.0	0.3	0.3	-89.96	0.0	-30.8	30.8	30.1	0.68	45.494			
300.0	300.0	301.0	301.0	0.6	0.6	-89.96	0.0	-30.8	30.8	29.7	1.13	27.333			
400.0	400.0	401.0	401.0	0.8	0.8	-89.96	0.0	-30.8	30.8	29.2	1.58	19.535			
500.0	500.0	501.0	501.0	1.0	1.0	-89.96	0.0	-30.8	30.8	28.8	2.03	15.198			
600.0	600.0	601.0	601.0	1.2	1.2	-89.96	0.0	-30.8	30.8	28.3	2.47	12.438			
700.0	700.0	701.0	701.0	1.5	1.5	-89.96	0.0	-30.8	30.8	27.9	2.92	10.526			
800.0	800.0	801.0	801.0	1.7	1.7	-89.96	0.0	-30.8	30.8	27.4	3.37	9.123			
900.0	900.0	901.0	901.0	1.9	1.9	-89.96	0.0	-30.8	30.8	27.0	3.82	8.050			
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-89.96	0.0	-30.8	30.8	26.5	4.27	7.203			
1,100.0	1,100.0	1,101.0	1,101.0	2.4	2.4	-89.96	0.0	-30.8	30.8	26.1	4.72	6.518			
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	-89.96	0.0	-30.8	30.8	25.6	5.17	5.951			
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	-89.96	0.0	-30.8	30.8	25.2	5.62	5.475			
1,400.0	1,400.0	1,401.0	1,401.0	3.0	3.0	-89.96	0.0	-30.8	30.8	24.7	6.07	5.070			
1,500.0	1,500.0	1,501.0	1,501.0	3.3	3.3	-89.96	0.0	-30.8	30.8	24.3	6.52	4.720			
1,600.0	1,600.0	1,601.0	1,601.0	3.5	3.5	-89.96	0.0	-30.8	30.8	23.8	6.97	4.416	CC, ES		
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	-135.51	0.0	-30.8	31.7	24.3	7.41	4.275			
1,800.0	1,799.9	1,800.9	1,800.9	3.9	3.9	-140.04	0.0	-30.8	34.6	26.8	7.85	4.408			
1,900.0	1,899.7	1,900.0	1,900.0	4.1	4.2	-144.37	1.0	-31.6	40.5	32.2	8.28	4.890			
2,000.0	1,999.3	1,999.1	1,999.1	4.4	4.4	-146.52	4.0	-34.2	49.9	41.2	8.71	5.736			
2,100.0	2,098.7	2,097.7	2,097.4	4.6	4.6	-146.78	8.8	-38.4	62.1	53.0	9.14	6.794			
2,200.0	2,198.1	2,196.0	2,195.3	4.9	4.8	-145.26	15.6	-44.2	75.6	66.0	9.59	7.878			
2,300.0	2,297.5	2,294.0	2,292.6	5.1	5.1	-142.85	24.1	-51.6	90.3	80.3	10.05	8.985			
2,400.0	2,396.8	2,392.8	2,390.7	5.4	5.3	-140.76	33.3	-59.5	105.6	95.1	10.52	10.037			
2,500.0	2,496.2	2,491.5	2,488.7	5.6	5.5	-139.19	42.5	-67.4	121.0	110.0	11.00	11.000			
2,600.0	2,595.6	2,590.3	2,586.7	5.9	5.8	-137.98	51.7	-75.4	136.4	124.9	11.48	11.883			
2,700.0	2,695.0	2,689.1	2,684.7	6.2	6.1	-137.02	61.0	-83.3	151.9	139.9	11.97	12.692			
2,800.0	2,794.4	2,787.8	2,782.7	6.4	6.3	-136.23	70.2	-91.2	167.4	155.0	12.46	13.435			
2,900.0	2,893.8	2,886.6	2,880.7	6.7	6.6	-135.58	79.4	-99.2	183.0	170.0	12.96	14.119			
3,000.0	2,993.2	2,985.4	2,978.7	7.0	6.9	-135.03	88.6	-107.1	198.5	185.1	13.46	14.748			
3,100.0	3,092.6	3,084.1	3,076.7	7.3	7.2	-134.56	97.8	-115.0	214.1	200.2	13.97	15.329			
3,200.0	3,192.0	3,182.9	3,174.8	7.5	7.5	-134.16	107.0	-123.0	229.7	215.2	14.48	15.867			
3,300.0	3,291.4	3,281.6	3,272.8	7.8	7.7	-133.80	116.2	-130.9	245.3	230.3	14.99	16.366			
3,400.0	3,390.8	3,380.4	3,370.8	8.1	8.0	-133.49	125.4	-138.8	260.9	245.4	15.50	16.830			
3,500.0	3,490.2	3,479.2	3,468.8	8.4	8.3	-133.21	134.6	-146.8	276.6	260.5	16.02	17.262			
3,600.0	3,589.5	3,579.9	3,568.8	8.7	8.6	-132.99	143.8	-154.7	292.1	275.5	16.54	17.663			
3,700.0	3,688.9	3,684.3	3,672.7	9.0	8.8	-133.12	151.7	-161.5	306.1	289.1	17.01	17.992			
3,800.0	3,788.5	3,789.3	3,777.4	9.2	9.0	-133.53	157.4	-166.4	317.4	299.9	17.45	18.191			
3,900.0	3,888.3	3,894.8	3,882.8	9.4	9.2	-133.91	161.0	-169.5	325.0	307.1	17.85	18.203			
4,000.0	3,988.2	4,000.6	3,988.5	9.6	9.4	-134.28	162.3	-170.7	329.0	310.8	18.24	18.041			
4,100.0	4,088.1	4,101.2	4,089.1	9.7	9.6	-134.49	162.3	-170.7	330.2	311.6	18.61	17.743			
4,200.0	4,188.1	4,201.2	4,189.1	9.9	9.8	-90.64	162.3	-170.7	330.2	311.2	19.01	17.372			
4,300.0	4,288.1	4,301.2	4,289.1	10.1	10.0	-90.64	162.3	-170.7	330.2	310.8	19.43	16.997			
4,400.0	4,388.1	4,401.2	4,389.1	10.3	10.2	-90.64	162.3	-170.7	330.2	310.4	19.85	16.638			
4,500.0	4,488.1	4,501.2	4,489.1	10.5	10.4	-90.64	162.3	-170.7	330.2	309.9	20.27	16.292			
4,600.0	4,588.1	4,601.2	4,589.1	10.7	10.6	-90.64	162.3	-170.7	330.2	309.5	20.69	15.959			
4,700.0	4,688.1	4,701.2	4,689.1	10.9	10.9	-90.64	162.3	-170.7	330.2	309.1	21.11	15.639			
4,800.0	4,788.1	4,801.2	4,789.1	11.1	11.1	-90.64	162.3	-170.7	330.2	308.7	21.54	15.331			
4,900.0	4,888.1	4,901.2	4,889.1	11.4	11.3	-90.64	162.3	-170.7	330.2	308.2	21.96	15.034			
5,000.0	4,988.1	5,001.2	4,989.1	11.6	11.5	-90.64	162.3	-170.7	330.2	307.8	22.39	14.748			
5,100.0	5,088.1	5,101.2	5,089.1	11.8	11.7	-90.64	162.3	-170.7	330.2	307.4	22.82	14.471			

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,188.1	5,201.2	5,189.1	12.0	11.9	-90.64	162.3	-170.7	330.2	307.0	23.25	14.205			
5,300.0	5,288.1	5,301.2	5,289.1	12.2	12.1	-90.64	162.3	-170.7	330.2	306.5	23.67	13.947			
5,400.0	5,388.1	5,401.2	5,389.1	12.4	12.3	-90.64	162.3	-170.7	330.2	306.1	24.10	13.699			
5,500.0	5,488.1	5,501.2	5,489.1	12.6	12.5	-90.64	162.3	-170.7	330.2	305.7	24.53	13.458			
5,600.0	5,588.1	5,601.2	5,589.1	12.8	12.8	-90.64	162.3	-170.7	330.2	305.2	24.97	13.226			
5,700.0	5,688.1	5,701.2	5,689.1	13.0	13.0	-90.64	162.3	-170.7	330.2	304.8	25.40	13.001			
5,800.0	5,788.1	5,801.2	5,789.1	13.2	13.2	-90.64	162.3	-170.7	330.2	304.4	25.83	12.784			
5,900.0	5,888.1	5,901.2	5,889.1	13.5	13.4	-90.64	162.3	-170.7	330.2	303.9	26.26	12.573			
6,000.0	5,988.1	6,001.2	5,989.1	13.7	13.6	-90.64	162.3	-170.7	330.2	303.5	26.70	12.369			
6,100.0	6,088.1	6,101.2	6,089.1	13.9	13.8	-90.64	162.3	-170.7	330.2	303.1	27.13	12.171			
6,200.0	6,188.1	6,201.2	6,189.1	14.1	14.0	-90.64	162.3	-170.7	330.2	302.6	27.56	11.979			
6,300.0	6,288.1	6,301.2	6,289.1	14.3	14.3	-90.64	162.3	-170.7	330.2	302.2	28.00	11.793			
6,400.0	6,388.1	6,401.2	6,389.1	14.5	14.5	-90.64	162.3	-170.7	330.2	301.8	28.44	11.612			
6,500.0	6,488.0	6,501.6	6,489.4	14.7	14.6	90.54	158.3	-170.6	330.2	301.4	28.79	11.469			
6,600.0	6,585.4	6,602.2	6,587.4	14.8	14.8	90.51	136.4	-170.1	330.2	301.2	28.99	11.391			
6,700.0	6,677.0	6,702.7	6,679.3	14.9	14.8	90.47	96.1	-169.3	330.2	301.1	29.11	11.343			
6,800.0	6,759.2	6,803.2	6,761.7	15.0	14.9	90.41	38.9	-168.1	330.2	300.9	29.26	11.285			
6,900.0	6,829.1	6,903.6	6,831.6	15.1	15.0	90.34	-33.0	-166.6	330.2	300.6	29.56	11.170			
7,000.0	6,884.2	7,003.9	6,886.4	15.3	15.2	90.25	-116.8	-164.9	330.2	300.1	30.13	10.958			
7,100.0	6,922.3	7,104.2	6,924.1	15.7	15.6	90.15	-209.5	-163.0	330.2	299.1	31.06	10.630			
7,200.0	6,942.1	7,204.3	6,943.4	16.3	16.3	90.05	-307.5	-161.0	330.2	297.8	32.37	10.199			
7,300.0	6,944.7	7,304.3	6,945.7	17.2	17.1	89.99	-407.5	-158.9	330.2	296.1	34.04	9.700			
7,400.0	6,944.3	7,404.3	6,945.2	18.1	18.1	89.99	-507.4	-156.9	330.2	294.1	36.03	9.164			
7,500.0	6,943.8	7,504.3	6,944.7	19.3	19.2	89.99	-607.4	-154.8	330.2	291.9	38.30	8.620			
7,600.0	6,943.3	7,604.3	6,944.3	20.5	20.5	89.99	-707.4	-152.7	330.2	289.4	40.81	8.089			
7,700.0	6,942.8	7,704.3	6,943.8	21.9	21.9	89.99	-807.4	-150.7	330.2	286.6	43.52	7.586			
7,800.0	6,942.4	7,804.3	6,943.3	23.3	23.3	89.99	-907.3	-148.6	330.2	283.8	46.39	7.117			
7,900.0	6,941.9	7,904.3	6,942.9	24.8	24.8	89.99	-1,007.3	-146.5	330.2	280.8	49.39	6.684			
8,000.0	6,941.4	8,004.3	6,942.4	26.3	26.3	89.99	-1,107.3	-144.5	330.2	277.7	52.50	6.288			
8,100.0	6,941.0	8,104.3	6,941.9	27.9	27.9	89.99	-1,207.3	-142.4	330.2	274.4	55.71	5.926			
8,200.0	6,940.5	8,204.3	6,941.4	29.6	29.6	89.99	-1,307.3	-140.4	330.2	271.2	58.99	5.597			
8,300.0	6,940.0	8,304.3	6,941.0	31.2	31.2	89.99	-1,407.2	-138.3	330.2	267.8	62.34	5.296			
8,400.0	6,939.5	8,404.3	6,940.5	32.9	32.9	89.99	-1,507.2	-136.2	330.1	264.4	65.74	5.022			
8,500.0	6,939.1	8,504.3	6,940.0	34.7	34.7	89.99	-1,607.2	-134.2	330.1	261.0	69.18	4.772			
8,600.0	6,938.6	8,604.3	6,939.6	36.4	36.4	89.99	-1,707.2	-132.1	330.1	257.5	72.67	4.543			
8,700.0	6,938.1	8,704.3	6,939.1	38.2	38.2	89.99	-1,807.1	-130.0	330.1	253.9	76.20	4.333			
8,800.0	6,937.7	8,804.3	6,938.6	39.9	39.9	89.99	-1,907.1	-128.0	330.1	250.4	79.75	4.140			
8,900.0	6,937.2	8,904.3	6,938.1	41.7	41.7	89.99	-2,007.1	-125.9	330.1	246.8	83.33	3.962			
9,000.0	6,936.7	9,004.3	6,937.7	43.5	43.5	89.99	-2,107.1	-123.8	330.1	243.2	86.93	3.798			
9,100.0	6,936.2	9,104.3	6,937.2	45.3	45.3	89.99	-2,207.1	-121.8	330.1	239.6	90.55	3.646			
9,200.0	6,935.8	9,204.3	6,936.7	47.1	47.2	89.99	-2,307.0	-119.7	330.1	235.9	94.19	3.505			
9,300.0	6,935.3	9,304.3	6,936.3	49.0	49.0	89.99	-2,407.0	-117.7	330.1	232.3	97.85	3.374			
9,400.0	6,934.8	9,404.3	6,935.8	50.8	50.8	89.99	-2,507.0	-115.6	330.1	228.6	101.52	3.252			
9,500.0	6,934.4	9,504.3	6,935.3	52.6	52.7	89.99	-2,607.0	-113.5	330.1	224.9	105.20	3.138			
9,600.0	6,933.9	9,604.3	6,934.8	54.5	54.5	89.99	-2,706.9	-111.5	330.1	221.2	108.89	3.032			
9,700.0	6,933.4	9,704.3	6,934.4	56.3	56.3	89.99	-2,806.9	-109.4	330.1	217.5	112.60	2.932			
9,800.0	6,932.9	9,804.3	6,933.9	58.2	58.2	89.99	-2,906.9	-107.3	330.1	213.8	116.31	2.838			
9,900.0	6,932.5	9,904.3	6,933.4	60.1	60.1	89.99	-3,006.9	-105.3	330.1	210.1	120.03	2.750			
10,000.0	6,932.0	10,004.3	6,933.0	61.9	61.9	89.99	-3,106.9	-103.2	330.1	206.4	123.76	2.667			
10,100.0	6,931.5	10,104.3	6,932.5	63.8	63.8	89.99	-3,206.8	-101.2	330.1	202.6	127.50	2.589			
10,200.0	6,931.1	10,204.3	6,932.0	65.7	65.7	89.99	-3,306.8	-99.1	330.1	198.9	131.24	2.515			
10,300.0	6,930.6	10,304.3	6,931.5	67.5	67.5	89.99	-3,406.8	-97.0	330.1	195.1	134.99	2.445			

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,400.0	6,930.1	10,404.3	6,931.1	69.4	69.4	89.99	-3,506.8	-95.0	330.1	191.4	138.75	2.379			
10,500.0	6,929.6	10,504.3	6,930.6	71.3	71.3	89.99	-3,606.7	-92.9	330.1	187.6	142.51	2.316			
10,600.0	6,929.2	10,604.3	6,930.1	73.2	73.2	89.99	-3,706.7	-90.8	330.1	183.8	146.27	2.257			
10,700.0	6,928.7	10,704.3	6,929.7	75.0	75.1	89.99	-3,806.7	-88.8	330.1	180.1	150.04	2.200			
10,800.0	6,928.2	10,804.3	6,929.2	76.9	76.9	89.99	-3,906.7	-86.7	330.1	176.3	153.81	2.146			
10,900.0	6,927.8	10,904.3	6,928.7	78.8	78.8	89.99	-4,006.6	-84.6	330.1	172.5	157.59	2.095			
11,000.0	6,927.3	11,004.3	6,928.2	80.7	80.7	89.99	-4,106.6	-82.6	330.1	168.7	161.36	2.046			
11,100.0	6,926.8	11,104.3	6,927.8	82.6	82.6	89.99	-4,206.6	-80.5	330.1	164.9	165.15	1.999			
11,200.0	6,926.4	11,204.3	6,927.3	84.5	84.5	89.99	-4,306.6	-78.5	330.1	161.2	168.93	1.954			
11,300.0	6,925.9	11,304.3	6,926.8	86.4	86.4	89.99	-4,406.6	-76.4	330.1	157.4	172.72	1.911			
11,400.0	6,925.4	11,404.3	6,926.4	88.3	88.3	89.99	-4,506.5	-74.3	330.1	153.6	176.51	1.870			
11,458.9	6,925.1	11,463.2	6,926.1	89.4	89.4	89.99	-4,565.4	-73.1	330.1	151.3	178.74	1.847			
11,486.7	6,925.0	11,480.5	6,926.0	89.9	89.7	89.99	-4,582.8	-72.8	330.2	150.6	179.60	1.839 SF			

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference				Offset			Semi Major Axis			Distance				Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.0	-16.8	16.8	16.8	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	-89.96	0.0	-16.8	16.8	16.6	0.22	74.693		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-16.8	16.8	16.1	0.67	24.898		
300.0	300.0	300.0	300.0	0.6	0.6	-89.96	0.0	-16.8	16.8	15.7	1.12	14.939		
400.0	400.0	400.0	400.0	0.8	0.8	-89.96	0.0	-16.8	16.8	15.2	1.57	10.670		
500.0	500.0	500.0	500.0	1.0	1.0	-89.96	0.0	-16.8	16.8	14.8	2.02	8.299		
600.0	600.0	600.0	600.0	1.2	1.2	-89.96	0.0	-16.8	16.8	14.3	2.47	6.790		
700.0	700.0	700.0	700.0	1.5	1.5	-89.96	0.0	-16.8	16.8	13.9	2.92	5.746		
800.0	800.0	800.0	800.0	1.7	1.7	-89.96	0.0	-16.8	16.8	13.4	3.37	4.980		
900.0	900.0	900.0	900.0	1.9	1.9	-89.96	0.0	-16.8	16.8	13.0	3.82	4.394		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-89.96	0.0	-16.8	16.8	12.5	4.27	3.931		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-89.96	0.0	-16.8	16.8	12.1	4.72	3.557		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-89.96	0.0	-16.8	16.8	11.6	5.17	3.248		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-89.96	0.0	-16.8	16.8	11.2	5.62	2.988		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-89.96	0.0	-16.8	16.8	10.7	6.07	2.766		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-89.96	0.0	-16.8	16.8	10.3	6.52	2.576		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-89.96	0.0	-16.8	16.8	9.8	6.97	2.409 CC, ES		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-136.86	0.0	-16.8	17.7	10.3	7.41	2.391		
1,800.0	1,799.9	1,799.9	1,799.9	3.9	3.9	-144.26	0.0	-16.8	20.8	12.9	7.85	2.645		
1,900.0	1,899.7	1,899.7	1,899.7	4.1	4.2	-152.55	0.0	-16.8	26.3	18.1	8.28	3.182		
2,000.0	1,999.3	1,999.3	1,999.3	4.4	4.4	-159.48	0.0	-16.8	34.7	26.0	8.71	3.988		
2,100.0	2,098.7	2,098.7	2,098.7	4.6	4.6	-164.35	0.0	-16.8	45.2	36.0	9.15	4.937		
2,200.0	2,198.1	2,198.1	2,198.1	4.9	4.8	-167.40	0.0	-16.8	55.8	46.2	9.59	5.822		
2,300.0	2,297.5	2,298.5	2,298.5	5.1	5.1	-168.62	1.3	-16.7	65.8	55.8	10.04	6.559		
2,400.0	2,396.8	2,399.3	2,399.2	5.4	5.3	-167.94	5.2	-16.4	74.2	63.7	10.49	7.077		
2,500.0	2,496.2	2,500.3	2,500.0	5.6	5.5	-165.90	11.8	-16.0	81.0	70.1	10.94	7.407		
2,600.0	2,595.6	2,601.3	2,600.5	5.9	5.7	-162.72	21.0	-15.4	86.5	75.1	11.40	7.585		
2,700.0	2,695.0	2,701.9	2,700.5	6.2	6.0	-158.53	32.8	-14.6	90.9	79.0	11.87	7.654		
2,800.0	2,794.4	2,801.6	2,799.4	6.4	6.2	-154.36	45.2	-13.7	95.4	83.0	12.36	7.720		
2,900.0	2,893.8	2,901.2	2,898.2	6.7	6.5	-150.58	57.6	-12.9	100.4	87.5	12.85	7.808		
3,000.0	2,993.2	3,000.9	2,997.1	7.0	6.7	-147.17	70.0	-12.1	105.7	92.4	13.36	7.911		
3,100.0	3,092.6	3,100.6	3,096.0	7.3	7.0	-144.10	82.5	-11.2	111.4	97.6	13.89	8.025		
3,200.0	3,192.0	3,200.2	3,194.9	7.5	7.2	-141.34	94.9	-10.4	117.4	103.0	14.42	8.145		
3,300.0	3,291.4	3,299.9	3,293.8	7.8	7.5	-138.85	107.3	-9.5	123.7	108.7	14.96	8.269		
3,400.0	3,390.8	3,399.6	3,392.7	8.1	7.8	-136.60	119.7	-8.7	130.1	114.6	15.50	8.393		
3,500.0	3,490.2	3,499.2	3,491.6	8.4	8.0	-134.57	132.1	-7.9	136.8	120.7	16.06	8.518		
3,600.0	3,589.5	3,598.8	3,590.4	8.7	8.3	-132.97	143.9	-7.1	143.6	127.0	16.59	8.655		
3,700.0	3,688.9	3,698.3	3,689.5	9.0	8.5	-132.45	153.3	-6.4	150.6	133.5	17.07	8.824		
3,800.0	3,788.5	3,798.0	3,788.9	9.2	8.7	-132.58	160.1	-6.0	156.7	139.2	17.49	8.961		
3,900.0	3,888.3	3,897.7	3,888.5	9.4	8.9	-132.92	164.3	-5.7	161.1	143.3	17.88	9.015		
4,000.0	3,988.2	3,997.4	3,988.2	9.6	9.1	-133.47	165.9	-5.6	164.0	145.7	18.24	8.991		
4,100.0	4,088.1	4,097.3	4,088.1	9.7	9.3	-133.88	165.9	-5.6	165.1	146.5	18.59	8.878		
4,200.0	4,188.1	4,197.3	4,188.1	9.9	9.5	-90.03	165.9	-5.6	165.1	146.1	19.01	8.684		
4,300.0	4,288.1	4,297.3	4,288.1	10.1	9.7	-90.03	165.9	-5.6	165.1	145.7	19.43	8.497		
4,400.0	4,388.1	4,397.3	4,388.1	10.3	9.9	-90.03	165.9	-5.6	165.1	145.2	19.85	8.316		
4,500.0	4,488.1	4,497.3	4,488.1	10.5	10.1	-90.03	165.9	-5.6	165.1	144.8	20.27	8.143		
4,600.0	4,588.1	4,597.3	4,588.1	10.7	10.3	-90.03	165.9	-5.6	165.1	144.4	20.70	7.976		
4,700.0	4,688.1	4,697.3	4,688.1	10.9	10.5	-90.03	165.9	-5.6	165.1	144.0	21.12	7.816		
4,800.0	4,788.1	4,797.3	4,788.1	11.1	10.8	-90.03	165.9	-5.6	165.1	143.5	21.55	7.661		
4,900.0	4,888.1	4,897.3	4,888.1	11.4	11.0	-90.03	165.9	-5.6	165.1	143.1	21.98	7.512		
5,000.0	4,988.1	4,997.3	4,988.1	11.6	11.2	-90.03	165.9	-5.6	165.1	142.7	22.40	7.369		
5,100.0	5,088.1	5,097.3	5,088.1	11.8	11.4	-90.03	165.9	-5.6	165.1	142.3	22.83	7.231		

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.0	5,188.1	5,197.3	5,188.1	12.0	11.6	-90.03	165.9	-5.6	165.1	141.8	23.26	7.097		
5,300.0	5,288.1	5,297.3	5,288.1	12.2	11.8	-90.03	165.9	-5.6	165.1	141.4	23.69	6.968		
5,400.0	5,388.1	5,397.3	5,388.1	12.4	12.1	-90.03	165.9	-5.6	165.1	141.0	24.12	6.844		
5,500.0	5,488.1	5,497.3	5,488.1	12.6	12.3	-90.03	165.9	-5.6	165.1	140.5	24.55	6.724		
5,600.0	5,588.1	5,597.3	5,588.1	12.8	12.5	-90.03	165.9	-5.6	165.1	140.1	24.99	6.607		
5,700.0	5,688.1	5,697.3	5,688.1	13.0	12.7	-90.03	165.9	-5.6	165.1	139.7	25.42	6.495		
5,800.0	5,788.1	5,797.3	5,788.1	13.2	12.9	-90.03	165.9	-5.6	165.1	139.2	25.85	6.386		
5,900.0	5,888.1	5,897.3	5,888.1	13.5	13.1	-90.03	165.9	-5.6	165.1	138.8	26.29	6.281		
6,000.0	5,988.1	5,997.3	5,988.1	13.7	13.4	-90.03	165.9	-5.6	165.1	138.4	26.72	6.178		
6,100.0	6,088.1	6,097.3	6,088.1	13.9	13.6	-90.03	165.9	-5.6	165.1	137.9	27.15	6.080		
6,200.0	6,188.1	6,197.3	6,188.1	14.1	13.8	-90.03	165.9	-5.6	165.1	137.5	27.59	5.984		
6,300.0	6,288.1	6,297.3	6,288.1	14.3	14.0	-90.03	165.9	-5.6	165.1	137.1	28.03	5.891		
6,400.0	6,388.1	6,397.3	6,388.1	14.5	14.2	-90.03	165.9	-5.6	165.1	136.6	28.46	5.800		
6,431.8	6,420.0	6,429.1	6,420.0	14.6	14.3	91.37	165.9	-5.6	165.1	136.5	28.58	5.777		
6,500.0	6,488.0	6,497.2	6,488.0	14.7	14.5	92.50	165.9	-5.6	165.2	136.4	28.86	5.725		
6,600.0	6,585.4	6,594.6	6,585.4	14.8	14.7	99.47	165.9	-5.6	167.6	138.4	29.20	5.738		
6,700.0	6,677.0	6,694.6	6,685.3	14.9	14.8	110.13	161.7	-5.5	177.4	148.2	29.20	6.077		
6,800.0	6,759.2	6,805.7	6,793.1	15.0	14.9	119.89	135.9	-5.0	193.7	165.2	28.50	6.796		
6,900.0	6,829.1	6,927.8	6,902.3	15.1	15.0	127.77	82.1	-3.9	212.9	185.8	27.17	7.836		
7,000.0	6,884.2	7,062.3	7,004.5	15.3	15.2	133.67	-4.8	-2.1	231.7	206.0	25.65	9.034		
7,100.0	6,922.3	7,209.1	7,086.7	15.7	15.6	137.59	-125.9	0.4	246.5	221.9	24.57	10.031		
7,200.0	6,942.1	7,365.2	7,133.5	16.3	16.4	139.52	-274.2	3.5	254.5	229.8	24.66	10.321		
7,300.0	6,944.7	7,496.1	7,139.6	17.2	17.4	139.73	-404.7	6.2	255.4	229.5	25.90	9.861		
7,400.0	6,944.3	7,596.1	7,139.2	18.1	18.4	139.75	-504.7	8.2	255.5	228.2	27.27	9.366		
7,500.0	6,943.8	7,696.1	7,138.9	19.3	19.5	139.77	-604.7	10.3	255.6	226.7	28.84	8.860		
7,600.0	6,943.3	7,796.1	7,138.5	20.5	20.7	139.79	-704.7	12.4	255.6	225.1	30.57	8.362		
7,700.0	6,942.8	7,896.1	7,138.2	21.9	22.1	139.81	-804.6	14.4	255.7	223.3	32.44	7.884		
7,800.0	6,942.4	7,996.1	7,137.8	23.3	23.5	139.82	-904.6	16.5	255.8	221.4	34.42	7.433		
7,900.0	6,941.9	8,096.1	7,137.5	24.8	25.0	139.84	-1,004.6	18.6	255.9	219.4	36.49	7.013		
8,000.0	6,941.4	8,196.1	7,137.1	26.3	26.5	139.86	-1,104.6	20.6	256.0	217.4	38.64	6.625		
8,100.0	6,941.0	8,296.1	7,136.8	27.9	28.1	139.88	-1,204.6	22.7	256.1	215.2	40.86	6.268		
8,200.0	6,940.5	8,396.1	7,136.4	29.6	29.7	139.90	-1,304.5	24.7	256.2	213.1	43.13	5.939		
8,300.0	6,940.0	8,496.1	7,136.1	31.2	31.4	139.91	-1,404.5	26.8	256.3	210.8	45.46	5.638		
8,400.0	6,939.5	8,596.1	7,135.7	32.9	33.1	139.93	-1,504.5	28.9	256.4	208.6	47.82	5.362		
8,500.0	6,939.1	8,696.1	7,135.4	34.7	34.8	139.95	-1,604.5	30.9	256.5	206.3	50.21	5.108		
8,600.0	6,938.6	8,796.1	7,135.0	36.4	36.5	139.97	-1,704.4	33.0	256.6	203.9	52.64	4.874		
8,700.0	6,938.1	8,896.1	7,134.7	38.2	38.3	139.98	-1,804.4	35.1	256.7	201.6	55.09	4.659		
8,800.0	6,937.7	8,996.1	7,134.4	39.9	40.1	140.00	-1,904.4	37.1	256.8	199.2	57.56	4.461		
8,900.0	6,937.2	9,096.1	7,134.0	41.7	41.8	140.02	-2,004.4	39.2	256.8	196.8	60.05	4.277		
9,000.0	6,936.7	9,196.1	7,133.7	43.5	43.6	140.04	-2,104.4	41.2	256.9	194.4	62.56	4.107		
9,100.0	6,936.2	9,296.1	7,133.3	45.3	45.4	140.05	-2,204.3	43.3	257.0	192.0	65.08	3.950		
9,200.0	6,935.8	9,396.1	7,133.0	47.1	47.3	140.07	-2,304.3	45.4	257.1	189.5	67.61	3.803		
9,300.0	6,935.3	9,496.1	7,132.6	49.0	49.1	140.09	-2,404.3	47.4	257.2	187.1	70.16	3.666		
9,400.0	6,934.8	9,596.1	7,132.3	50.8	50.9	140.11	-2,504.3	49.5	257.3	184.6	72.71	3.539		
9,500.0	6,934.4	9,696.1	7,131.9	52.6	52.7	140.13	-2,604.2	51.5	257.4	182.1	75.27	3.420		
9,600.0	6,933.9	9,796.1	7,131.6	54.5	54.6	140.14	-2,704.2	53.6	257.5	179.7	77.84	3.308		
9,700.0	6,933.4	9,896.1	7,131.2	56.3	56.4	140.16	-2,804.2	55.7	257.6	177.2	80.42	3.203		
9,800.0	6,932.9	9,996.1	7,130.9	58.2	58.3	140.18	-2,904.2	57.7	257.7	174.7	83.00	3.104		
9,900.0	6,932.5	10,096.1	7,130.5	60.1	60.1	140.20	-3,004.2	59.8	257.8	172.2	85.59	3.012		
10,000.0	6,932.0	10,196.1	7,130.2	61.9	62.0	140.21	-3,104.1	61.9	257.9	169.7	88.19	2.924		
10,100.0	6,931.5	10,296.1	7,129.8	63.8	63.9	140.23	-3,204.1	63.9	258.0	167.2	90.79	2.841		
10,200.0	6,931.1	10,396.1	7,129.5	65.7	65.7	140.25	-3,304.1	66.0	258.1	164.7	93.39	2.763		

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	6,930.6	10,496.1	7,129.1	67.5	67.6	140.27	-3,404.1	68.0	258.2	162.2	95.99	2.689			
10,400.0	6,930.1	10,596.1	7,128.8	69.4	69.5	140.28	-3,504.0	70.1	258.2	159.6	98.60	2.619			
10,500.0	6,929.6	10,696.1	7,128.4	71.3	71.4	140.30	-3,604.0	72.2	258.3	157.1	101.21	2.553			
10,600.0	6,929.2	10,796.1	7,128.1	73.2	73.2	140.32	-3,704.0	74.2	258.4	154.6	103.82	2.489			
10,700.0	6,928.7	10,896.1	7,127.7	75.0	75.1	140.34	-3,804.0	76.3	258.5	152.1	106.44	2.429			
10,800.0	6,928.2	10,996.1	7,127.4	76.9	77.0	140.35	-3,904.0	78.4	258.6	149.6	109.05	2.371			
10,900.0	6,927.8	11,096.1	7,127.0	78.8	78.9	140.37	-4,003.9	80.4	258.7	147.0	111.67	2.317			
11,000.0	6,927.3	11,196.1	7,126.7	80.7	80.8	140.39	-4,103.9	82.5	258.8	144.5	114.29	2.264			
11,100.0	6,926.8	11,296.1	7,126.3	82.6	82.7	140.41	-4,203.9	84.5	258.9	142.0	116.91	2.215			
11,200.0	6,926.4	11,396.1	7,126.0	84.5	84.6	140.42	-4,303.9	86.6	259.0	139.5	119.53	2.167			
11,300.0	6,925.9	11,496.1	7,125.6	86.4	86.5	140.44	-4,403.8	88.7	259.1	136.9	122.15	2.121			
11,400.0	6,925.4	11,596.1	7,125.3	88.3	88.4	140.46	-4,503.8	90.7	259.2	134.4	124.78	2.077			
11,447.8	6,925.2	11,643.9	7,125.1	89.2	89.3	140.47	-4,551.6	91.7	259.2	133.2	126.03	2.057			
11,486.7	6,925.0	11,675.1	7,125.0	89.9	89.8	140.47	-4,582.8	92.4	259.4	132.4	126.95	2.043 SF			

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.07	0.0	14.0	14.0	14.0	0.00	N/A			
100.0	100.0	100.0	100.0	0.1	0.1	90.07	0.0	14.0	14.0	13.8	0.22	62.244			
200.0	200.0	200.0	200.0	0.3	0.3	90.07	0.0	14.0	14.0	13.3	0.67	20.748			
300.0	300.0	300.0	300.0	0.6	0.6	90.07	0.0	14.0	14.0	12.9	1.12	12.449			
400.0	400.0	400.0	400.0	0.8	0.8	90.07	0.0	14.0	14.0	12.4	1.57	8.892			
500.0	500.0	500.0	500.0	1.0	1.0	90.07	0.0	14.0	14.0	12.0	2.02	6.916			
600.0	600.0	600.0	600.0	1.2	1.2	90.07	0.0	14.0	14.0	11.5	2.47	5.659			
700.0	700.0	700.0	700.0	1.5	1.5	90.07	0.0	14.0	14.0	11.1	2.92	4.788			
800.0	800.0	800.0	800.0	1.7	1.7	90.07	0.0	14.0	14.0	10.6	3.37	4.150			
900.0	900.0	900.0	900.0	1.9	1.9	90.07	0.0	14.0	14.0	10.2	3.82	3.661			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.07	0.0	14.0	14.0	9.7	4.27	3.276			
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.07	0.0	14.0	14.0	9.3	4.72	2.964			
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.07	0.0	14.0	14.0	8.8	5.17	2.706			
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.07	0.0	14.0	14.0	8.4	5.62	2.490			
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.07	0.0	14.0	14.0	7.9	6.07	2.305 CC			
1,500.0	1,500.0	1,499.7	1,499.6	3.3	3.3	87.76	0.6	15.1	15.2	8.6	6.51	2.328			
1,600.0	1,600.0	1,599.2	1,599.1	3.5	3.5	82.58	2.4	18.6	18.8	11.8	6.95	2.699			
1,700.0	1,700.0	1,698.5	1,698.2	3.7	3.7	35.17	5.5	24.3	23.9	16.5	7.38	3.237			
1,800.0	1,799.9	1,797.7	1,797.0	3.9	3.9	34.34	9.7	32.3	29.4	21.6	7.80	3.766			
1,900.0	1,899.7	1,896.9	1,895.5	4.1	4.1	35.02	15.1	42.4	35.1	26.9	8.23	4.272			
2,000.0	1,999.3	1,996.8	1,994.7	4.4	4.4	37.39	20.9	53.3	39.5	30.9	8.66	4.564			
2,100.0	2,098.7	2,096.7	2,093.8	4.6	4.7	40.85	26.7	64.2	42.6	33.5	9.11	4.672			
2,200.0	2,198.1	2,196.7	2,193.0	4.9	4.9	43.90	32.5	75.1	45.7	36.1	9.58	4.773			
2,300.0	2,297.5	2,296.6	2,292.1	5.1	5.2	46.55	38.2	86.0	49.0	38.9	10.05	4.870			
2,400.0	2,396.8	2,396.5	2,391.3	5.4	5.5	48.86	44.0	96.9	52.3	41.8	10.54	4.961			
2,500.0	2,496.2	2,496.4	2,490.5	5.6	5.8	50.90	49.8	107.8	55.7	44.7	11.04	5.047			
2,600.0	2,595.6	2,596.4	2,589.6	5.9	6.0	52.70	55.6	118.7	59.2	47.7	11.55	5.126			
2,700.0	2,695.0	2,696.3	2,688.8	6.2	6.3	54.29	61.4	129.6	62.7	50.7	12.07	5.200			
2,800.0	2,794.4	2,796.2	2,787.9	6.4	6.6	55.72	67.2	140.5	66.3	53.7	12.59	5.268			
2,900.0	2,893.8	2,896.1	2,887.1	6.7	6.9	57.00	73.0	151.4	69.9	56.8	13.12	5.330			
3,000.0	2,993.2	2,996.1	2,986.2	7.0	7.2	58.15	78.8	162.3	73.6	59.9	13.65	5.388			
3,100.0	3,092.6	3,096.0	3,085.4	7.3	7.5	59.19	84.6	173.2	77.2	63.0	14.20	5.441			
3,200.0	3,192.0	3,195.9	3,184.6	7.5	7.8	60.14	90.3	184.1	80.9	66.2	14.74	5.490			
3,300.0	3,291.4	3,295.8	3,283.7	7.8	8.1	61.01	96.1	195.0	84.7	69.4	15.29	5.535			
3,400.0	3,390.8	3,395.7	3,382.9	8.1	8.4	61.80	101.9	205.9	88.4	72.5	15.85	5.577			
3,500.0	3,490.2	3,495.7	3,482.0	8.4	8.7	62.53	107.7	216.8	92.1	75.7	16.40	5.616			
3,600.0	3,589.5	3,595.6	3,581.2	8.7	9.0	63.20	113.5	227.7	95.9	78.9	16.97	5.652			
3,700.0	3,688.9	3,695.5	3,680.4	9.0	9.4	63.82	119.3	238.6	99.7	82.1	17.53	5.687			
3,800.0	3,788.5	3,795.4	3,779.5	9.2	9.7	63.68	125.1	249.5	104.1	86.1	18.01	5.782			
3,900.0	3,888.3	3,895.2	3,878.5	9.4	10.0	62.35	130.8	260.3	109.8	91.4	18.44	5.954			
4,000.0	3,988.2	3,994.9	3,977.4	9.6	10.3	60.05	136.6	271.2	116.8	98.0	18.82	6.208			
4,100.0	4,088.1	4,094.3	4,076.1	9.7	10.6	57.03	142.4	282.0	125.4	106.2	19.14	6.551			
4,200.0	4,188.1	4,193.5	4,174.5	9.9	10.9	97.63	148.1	292.9	135.2	115.7	19.51	6.933			
4,300.0	4,288.1	4,294.2	4,274.5	10.1	11.2	94.83	153.8	303.6	145.3	125.4	19.86	7.315			
4,400.0	4,388.1	4,397.2	4,377.0	10.3	11.4	92.78	158.6	312.5	153.6	133.4	20.20	7.605			
4,500.0	4,488.1	4,500.6	4,480.1	10.5	11.6	91.43	162.0	319.0	159.7	139.2	20.56	7.771			
4,600.0	4,588.1	4,604.3	4,583.8	10.7	11.8	90.65	164.2	323.0	163.6	142.7	20.93	7.817			
4,700.0	4,688.1	4,708.3	4,687.7	10.9	12.0	90.36	165.0	324.6	165.1	143.8	21.31	7.745			
4,800.0	4,788.1	4,808.7	4,788.1	11.1	12.2	90.35	165.0	324.6	165.1	143.4	21.71	7.603			
4,900.0	4,888.1	4,908.7	4,888.1	11.4	12.4	90.35	165.0	324.6	165.1	143.0	22.13	7.460			
5,000.0	4,988.1	5,008.7	4,988.1	11.6	12.6	90.35	165.0	324.6	165.1	142.5	22.55	7.322			
5,100.0	5,088.1	5,108.7	5,088.1	11.8	12.7	90.35	165.0	324.6	165.1	142.1	22.97	7.188			

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,188.1	5,208.7	5,188.1	12.0	12.9	90.35	165.0	324.6	165.1	141.7	23.39	7.059			
5,300.0	5,288.1	5,308.7	5,288.1	12.2	13.1	90.35	165.0	324.6	165.1	141.3	23.81	6.935			
5,400.0	5,388.1	5,408.7	5,388.1	12.4	13.3	90.35	165.0	324.6	165.1	140.9	24.23	6.814			
5,500.0	5,488.1	5,508.7	5,488.1	12.6	13.5	90.35	165.0	324.6	165.1	140.4	24.65	6.697			
5,600.0	5,588.1	5,608.7	5,588.1	12.8	13.7	90.35	165.0	324.6	165.1	140.0	25.08	6.584			
5,700.0	5,688.1	5,708.7	5,688.1	13.0	13.9	90.35	165.0	324.6	165.1	139.6	25.50	6.474			
5,800.0	5,788.1	5,808.7	5,788.1	13.2	14.1	90.35	165.0	324.6	165.1	139.2	25.93	6.368			
5,900.0	5,888.1	5,908.7	5,888.1	13.5	14.3	90.35	165.0	324.6	165.1	138.7	26.35	6.265			
6,000.0	5,988.1	6,008.7	5,988.1	13.7	14.5	90.35	165.0	324.6	165.1	138.3	26.78	6.165			
6,100.0	6,088.1	6,108.7	6,088.1	13.9	14.7	90.35	165.0	324.6	165.1	137.9	27.21	6.068			
6,200.0	6,188.1	6,208.7	6,188.1	14.1	14.9	90.35	165.0	324.6	165.1	137.5	27.63	5.974			
6,300.0	6,288.1	6,308.7	6,288.1	14.3	15.1	90.35	165.0	324.6	165.1	137.0	28.06	5.883			
6,400.0	6,388.1	6,408.7	6,388.1	14.5	15.3	90.35	165.0	324.6	165.1	136.6	28.49	5.794			
6,500.0	6,488.0	6,508.2	6,487.4	14.7	15.5	-88.48	161.1	324.7	165.1	136.3	28.81	5.730			
6,600.0	6,585.4	6,607.4	6,584.2	14.8	15.6	-88.54	139.8	325.1	165.1	136.1	29.02	5.690			
6,700.0	6,677.0	6,706.6	6,675.1	14.9	15.7	-88.66	100.5	325.9	165.1	135.9	29.14	5.665			
6,800.0	6,759.2	6,805.9	6,757.0	15.0	15.7	-88.82	44.7	327.1	165.1	135.8	29.29	5.636			
6,900.0	6,829.1	6,905.3	6,827.0	15.1	15.8	-89.03	-25.7	328.5	165.1	135.5	29.58	5.579			
7,000.0	6,884.2	7,004.8	6,882.3	15.3	16.0	-89.27	-108.3	330.2	165.1	134.9	30.15	5.474			
7,100.0	6,922.3	7,104.5	6,921.1	15.7	16.3	-89.55	-199.9	332.1	165.0	134.0	31.07	5.311			
7,200.0	6,942.1	7,204.3	6,941.7	16.3	16.9	-89.83	-297.4	334.1	165.0	132.7	32.38	5.097			
7,233.1	6,945.0	7,237.4	6,944.3	16.6	17.1	-89.77	-330.4	334.8	165.0	132.1	32.91	5.015			
7,300.0	6,944.7	7,304.3	6,944.7	17.2	17.7	-90.01	-397.2	336.2	165.0	131.0	34.03	4.850			
7,400.0	6,944.3	7,404.3	6,944.3	18.1	18.6	-90.01	-497.2	338.2	165.0	129.0	36.02	4.583			
7,500.0	6,943.8	7,504.3	6,943.8	19.3	19.7	-90.01	-597.2	340.3	165.0	126.8	38.28	4.311			
7,600.0	6,943.3	7,604.3	6,943.3	20.5	20.9	-90.01	-697.2	342.4	165.0	124.3	40.79	4.046			
7,700.0	6,942.8	7,704.3	6,942.9	21.9	22.3	-90.01	-797.2	344.4	165.0	121.5	43.49	3.795			
7,800.0	6,942.4	7,804.3	6,942.4	23.3	23.7	-90.01	-897.1	346.5	165.0	118.7	46.36	3.560			
7,900.0	6,941.9	7,904.3	6,941.9	24.8	25.1	-90.01	-997.1	348.6	165.0	115.7	49.36	3.344			
8,000.0	6,941.4	8,004.3	6,941.4	26.3	26.7	-90.01	-1,097.1	350.6	165.0	112.6	52.47	3.146			
8,100.0	6,941.0	8,104.3	6,941.0	27.9	28.2	-90.01	-1,197.1	352.7	165.0	109.4	55.67	2.965			
8,200.0	6,940.5	8,204.3	6,940.5	29.6	29.9	-90.01	-1,297.0	354.7	165.0	106.1	58.95	2.800			
8,300.0	6,940.0	8,304.3	6,940.0	31.2	31.5	-90.01	-1,397.0	356.8	165.0	102.8	62.30	2.649			
8,400.0	6,939.5	8,404.3	6,939.6	32.9	33.2	-90.01	-1,497.0	358.9	165.1	99.4	65.69	2.512			
8,500.0	6,939.1	8,504.3	6,939.1	34.7	34.9	-90.01	-1,597.0	360.9	165.1	95.9	69.14	2.387			
8,600.0	6,938.6	8,604.3	6,938.6	36.4	36.6	-90.01	-1,696.9	363.0	165.1	92.4	72.63	2.273			
8,700.0	6,938.1	8,704.3	6,938.1	38.2	38.4	-90.01	-1,796.9	365.1	165.1	88.9	76.15	2.167			
8,800.0	6,937.7	8,804.3	6,937.7	39.9	40.1	-90.01	-1,896.9	367.1	165.1	85.4	79.70	2.071			
8,900.0	6,937.2	8,904.3	6,937.2	41.7	41.9	-90.01	-1,996.9	369.2	165.1	81.8	83.28	1.982			
9,000.0	6,936.7	9,004.3	6,936.7	43.5	43.7	-90.01	-2,096.9	371.2	165.1	78.2	86.88	1.900			
9,100.0	6,936.2	9,104.3	6,936.3	45.3	45.5	-90.01	-2,196.8	373.3	165.1	74.6	90.50	1.824			
9,200.0	6,935.8	9,204.3	6,935.8	47.1	47.3	-90.01	-2,296.8	375.4	165.1	70.9	94.14	1.753			
9,300.0	6,935.3	9,304.3	6,935.3	49.0	49.1	-90.01	-2,396.8	377.4	165.1	67.3	97.80	1.688			
9,400.0	6,934.8	9,404.3	6,934.8	50.8	51.0	-90.01	-2,496.8	379.5	165.1	63.6	101.47	1.627			
9,500.0	6,934.4	9,504.3	6,934.4	52.6	52.8	-90.01	-2,596.7	381.5	165.1	59.9	105.15	1.570			
9,600.0	6,933.9	9,604.3	6,933.9	54.5	54.6	-90.01	-2,696.7	383.6	165.1	56.2	108.84	1.517			
9,700.0	6,933.4	9,704.3	6,933.4	56.3	56.5	-90.01	-2,796.7	385.7	165.1	52.5	112.55	1.467 Level 3			
9,800.0	6,932.9	9,804.3	6,933.0	58.2	58.3	-90.01	-2,896.7	387.7	165.1	48.8	116.26	1.420 Level 3			
9,900.0	6,932.5	9,904.3	6,932.5	60.1	60.2	-90.01	-2,996.7	389.8	165.1	45.1	119.98	1.376 Level 3			
10,000.0	6,932.0	10,004.3	6,932.0	61.9	62.0	-90.01	-3,096.6	391.9	165.1	41.4	123.71	1.334 Level 3			
10,100.0	6,931.5	10,104.3	6,931.6	63.8	63.9	-90.01	-3,196.6	393.9	165.1	37.6	127.45	1.295 Level 3			
10,200.0	6,931.1	10,204.3	6,931.1	65.7	65.8	-90.01	-3,296.6	396.0	165.1	33.9	131.19	1.258 Level 3			

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	6,930.6	10,304.3	6,930.6	67.5	67.6	-90.01	-3,396.6	398.0	165.1	30.1	134.94	1.223	Level 2		
10,400.0	6,930.1	10,404.3	6,930.1	69.4	69.5	-90.01	-3,496.5	400.1	165.1	26.4	138.69	1.190	Level 2		
10,500.0	6,929.6	10,504.3	6,929.7	71.3	71.4	-90.01	-3,596.5	402.2	165.1	22.6	142.45	1.159	Level 2		
10,600.0	6,929.2	10,604.3	6,929.2	73.2	73.3	-90.01	-3,696.5	404.2	165.1	18.9	146.22	1.129	Level 2		
10,700.0	6,928.7	10,704.3	6,928.7	75.0	75.1	-90.01	-3,796.5	406.3	165.1	15.1	149.98	1.101	Level 2		
10,800.0	6,928.2	10,804.3	6,928.3	76.9	77.0	-90.01	-3,896.5	408.4	165.1	11.3	153.76	1.074	Level 2		
10,900.0	6,927.8	10,904.3	6,927.8	78.8	78.9	-90.01	-3,996.4	410.4	165.1	7.5	157.53	1.048	Level 2		
11,000.0	6,927.3	11,004.3	6,927.3	80.7	80.8	-90.01	-4,096.4	412.5	165.1	3.8	161.31	1.023	Level 2		
11,100.0	6,926.8	11,104.3	6,926.8	82.6	82.7	-90.01	-4,196.4	414.5	165.1	0.0	165.09	1.000	Level 1		
11,200.0	6,926.4	11,204.3	6,926.4	84.5	84.6	-90.01	-4,296.4	416.6	165.1	-3.8	168.88	0.977	Level 1		
11,300.0	6,925.9	11,304.3	6,925.9	86.4	86.5	-90.01	-4,396.3	418.7	165.1	-7.6	172.66	0.956	Level 1		
11,400.0	6,925.4	11,404.3	6,925.4	88.3	88.3	-90.01	-4,496.3	420.7	165.1	-11.4	176.44	0.936	Level 1		
11,486.7	6,925.0	11,491.0	6,925.0	89.9	89.7	-90.01	-4,583.0	422.5	165.1	-14.3	179.41	0.920	Level 1, ES, SF		

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.07	0.0	28.0	28.0					
100.0	100.0	99.0	99.0	0.1	0.1	90.07	0.0	28.0	28.0	27.8	0.22	125.113		
200.0	200.0	199.0	199.0	0.3	0.3	90.07	0.0	28.0	28.0	27.3	0.67	41.635		
300.0	300.0	299.0	299.0	0.6	0.6	90.07	0.0	28.0	28.0	26.9	1.12	24.948		
400.0	400.0	399.0	399.0	0.8	0.8	90.07	0.0	28.0	28.0	26.4	1.57	17.810		
500.0	500.0	499.0	499.0	1.0	1.0	90.07	0.0	28.0	28.0	26.0	2.02	13.847		
600.0	600.0	599.0	599.0	1.2	1.2	90.07	0.0	28.0	28.0	25.5	2.47	11.327		
700.0	700.0	699.0	699.0	1.5	1.5	90.07	0.0	28.0	28.0	25.1	2.92	9.583		
800.0	800.0	799.0	799.0	1.7	1.7	90.07	0.0	28.0	28.0	24.6	3.37	8.305		
900.0	900.0	899.0	899.0	1.9	1.9	90.07	0.0	28.0	28.0	24.2	3.82	7.327		
1,000.0	1,000.0	999.0	999.0	2.1	2.1	90.07	0.0	28.0	28.0	23.7	4.27	6.555 CC, ES		
1,100.0	1,100.0	1,098.1	1,098.0	2.4	2.3	88.96	0.5	29.6	29.6	24.9	4.71	6.284		
1,200.0	1,200.0	1,196.9	1,196.7	2.6	2.6	86.24	2.3	34.3	34.5	29.4	5.14	6.707		
1,300.0	1,300.0	1,295.2	1,294.7	2.8	2.8	83.11	5.1	42.3	42.8	37.2	5.59	7.664		
1,400.0	1,400.0	1,393.4	1,392.2	3.0	3.0	80.36	9.0	53.2	54.4	48.4	6.04	9.013		
1,500.0	1,500.0	1,492.6	1,490.6	3.3	3.3	78.45	13.3	65.1	66.9	60.5	6.50	10.305		
1,600.0	1,600.0	1,591.8	1,589.0	3.5	3.5	77.14	17.6	76.9	79.5	72.6	6.96	11.422		
1,700.0	1,700.0	1,691.1	1,687.5	3.7	3.8	32.68	21.8	88.8	91.0	83.7	7.34	12.400		
1,800.0	1,799.9	1,790.7	1,786.3	3.9	4.1	33.02	26.1	100.7	100.4	92.6	7.78	12.903		
1,900.0	1,899.7	1,890.4	1,885.2	4.1	4.4	34.07	30.4	112.6	107.5	99.3	8.22	13.087		
2,000.0	1,999.3	1,990.2	1,984.2	4.4	4.7	35.76	34.7	124.5	112.6	104.0	8.66	13.002		
2,100.0	2,098.7	2,090.1	2,083.2	4.6	5.0	37.88	39.0	136.4	116.3	107.2	9.12	12.758		
2,200.0	2,198.1	2,189.9	2,182.2	4.9	5.3	39.88	43.2	148.3	120.2	110.6	9.59	12.533		
2,300.0	2,297.5	2,289.7	2,281.3	5.1	5.6	41.77	47.5	160.3	124.2	114.1	10.07	12.332		
2,400.0	2,396.8	2,389.6	2,380.3	5.4	5.9	43.53	51.8	172.2	128.3	117.7	10.56	12.151		
2,500.0	2,496.2	2,489.4	2,479.3	5.6	6.2	45.18	56.1	184.1	132.5	121.4	11.05	11.988		
2,600.0	2,595.6	2,589.3	2,578.4	5.9	6.5	46.73	60.4	196.0	136.8	125.2	11.55	11.840		
2,700.0	2,695.0	2,689.1	2,677.4	6.2	6.8	48.19	64.7	208.0	141.2	129.1	12.06	11.705		
2,800.0	2,794.4	2,788.9	2,776.4	6.4	7.2	49.55	69.0	219.9	145.7	133.1	12.58	11.581		
2,900.0	2,893.8	2,888.8	2,875.5	6.7	7.5	50.84	73.2	231.8	150.3	137.2	13.11	11.467		
3,000.0	2,993.2	2,988.6	2,974.5	7.0	7.8	52.05	77.5	243.7	154.9	141.3	13.64	11.362		
3,100.0	3,092.6	3,088.5	3,073.5	7.3	8.1	53.18	81.8	255.6	159.6	145.5	14.17	11.265		
3,200.0	3,192.0	3,188.3	3,172.6	7.5	8.4	54.25	86.1	267.6	164.4	149.7	14.71	11.175		
3,300.0	3,291.4	3,288.1	3,271.6	7.8	8.7	55.26	90.4	279.5	169.2	154.0	15.26	11.091		
3,400.0	3,390.8	3,388.0	3,370.6	8.1	9.1	56.22	94.7	291.4	174.1	158.3	15.81	11.014		
3,500.0	3,490.2	3,487.8	3,469.7	8.4	9.4	57.12	99.0	303.3	179.0	162.7	16.36	10.942		
3,600.0	3,589.5	3,587.7	3,568.7	8.7	9.7	57.97	103.3	315.3	184.0	167.1	16.92	10.874		
3,700.0	3,688.9	3,687.5	3,667.7	9.0	10.0	58.78	107.5	327.2	189.0	171.5	17.48	10.813		
3,800.0	3,788.5	3,787.3	3,766.8	9.2	10.3	59.23	111.8	339.1	194.8	176.9	17.97	10.841		
3,900.0	3,888.3	3,887.1	3,865.7	9.4	10.7	59.03	116.1	351.0	202.0	183.6	18.42	10.964		
4,000.0	3,988.2	3,986.6	3,964.5	9.6	11.0	58.26	120.4	362.9	210.5	191.7	18.83	11.178		
4,100.0	4,088.1	4,086.0	4,063.0	9.7	11.3	57.00	124.7	374.8	220.5	201.3	19.21	11.483		
4,200.0	4,188.1	4,185.2	4,161.4	9.9	11.6	99.27	128.9	386.6	231.6	211.9	19.63	11.796		
4,300.0	4,288.1	4,284.4	4,259.8	10.1	11.9	97.82	133.2	398.5	242.8	222.7	20.03	12.122		
4,400.0	4,388.1	4,383.6	4,358.2	10.3	12.3	96.50	137.4	410.3	254.1	233.7	20.43	12.439		
4,500.0	4,488.1	4,482.8	4,456.6	10.5	12.6	95.29	141.7	422.2	265.5	244.7	20.83	12.747		
4,600.0	4,588.1	4,582.0	4,555.0	10.7	12.9	94.18	145.9	434.0	277.1	255.9	21.24	13.045		
4,700.0	4,688.1	4,681.2	4,653.4	10.9	13.2	93.16	150.2	445.8	288.8	267.1	21.66	13.334		
4,800.0	4,788.1	4,780.3	4,751.7	11.1	13.5	92.22	154.5	457.7	300.5	278.4	22.07	13.614		
4,900.0	4,888.1	4,881.1	4,851.7	11.4	13.9	91.33	158.8	469.7	312.3	289.8	22.49	13.883		
5,000.0	4,988.1	4,992.1	4,962.1	11.6	14.1	90.60	162.6	480.4	321.9	299.0	22.90	14.057		
5,100.0	5,088.1	5,103.8	5,073.5	11.8	14.3	90.17	165.0	487.1	327.8	304.5	23.30	14.071		

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,188.1	5,215.9	5,185.6	12.0	14.5	90.01	166.0	489.6	330.2	306.4	23.70	13.930			
5,300.0	5,288.1	5,317.4	5,287.1	12.2	14.7	90.01	166.0	489.7	330.2	306.1	24.10	13.699			
5,400.0	5,388.1	5,417.4	5,387.1	12.4	14.8	90.01	166.0	489.7	330.2	305.7	24.52	13.468			
5,500.0	5,488.1	5,517.4	5,487.1	12.6	15.0	90.01	166.0	489.7	330.2	305.3	24.93	13.245			
5,600.0	5,588.1	5,617.4	5,587.1	12.8	15.2	90.01	166.0	489.7	330.2	304.8	25.34	13.028			
5,700.0	5,688.1	5,717.4	5,687.1	13.0	15.4	90.01	166.0	489.7	330.2	304.4	25.76	12.818			
5,800.0	5,788.1	5,817.4	5,787.1	13.2	15.5	90.01	166.0	489.7	330.2	304.0	26.18	12.614			
5,900.0	5,888.1	5,917.4	5,887.1	13.5	15.7	90.01	166.0	489.7	330.2	303.6	26.59	12.416			
6,000.0	5,988.1	6,017.4	5,987.1	13.7	15.9	90.01	166.0	489.7	330.2	303.2	27.01	12.223			
6,100.0	6,088.1	6,117.4	6,087.1	13.9	16.1	90.01	166.0	489.7	330.2	302.7	27.43	12.036			
6,200.0	6,188.1	6,217.4	6,187.1	14.1	16.3	90.01	166.0	489.7	330.2	302.3	27.85	11.854			
6,300.0	6,288.1	6,317.4	6,287.1	14.3	16.4	90.01	166.0	489.7	330.2	301.9	28.27	11.677			
6,400.0	6,388.1	6,417.4	6,387.1	14.5	16.6	90.01	166.0	489.7	330.2	301.5	28.70	11.506			
6,500.0	6,488.0	6,516.6	6,486.2	14.7	16.8	-88.82	162.1	489.8	330.2	301.2	29.01	11.380			
6,600.0	6,585.4	6,615.3	6,582.5	14.8	16.9	-88.87	141.0	490.2	330.2	301.0	29.22	11.300			
6,700.0	6,677.0	6,714.1	6,673.1	14.9	17.0	-88.96	102.0	491.0	330.2	300.8	29.35	11.250			
6,800.0	6,759.2	6,813.1	6,754.9	15.0	17.0	-89.09	46.6	492.1	330.2	300.6	29.50	11.190			
6,900.0	6,829.1	6,912.1	6,824.8	15.1	17.1	-89.25	-23.3	493.6	330.1	300.3	29.80	11.077			
7,000.0	6,884.2	7,011.4	6,880.3	15.3	17.3	-89.44	-105.4	495.3	330.1	299.8	30.37	10.870			
7,100.0	6,922.3	7,110.9	6,919.4	15.7	17.6	-89.65	-196.7	497.2	330.1	298.8	31.29	10.550			
7,200.0	6,942.1	7,210.6	6,940.4	16.3	18.1	-89.87	-294.0	499.2	330.1	297.5	32.59	10.130			
7,236.3	6,945.2	7,246.9	6,943.4	16.6	18.3	-89.86	-330.2	499.9	330.1	297.0	33.16	9.954			
7,300.0	6,944.7	7,310.6	6,943.8	17.2	18.8	-90.01	-393.8	501.2	330.1	295.9	34.24	9.642			
7,400.0	6,944.3	7,410.6	6,943.3	18.1	19.6	-90.01	-493.8	503.3	330.1	293.9	36.21	9.117			
7,500.0	6,943.8	7,510.6	6,942.8	19.3	20.7	-90.01	-593.8	505.4	330.1	291.6	38.47	8.581			
7,600.0	6,943.3	7,610.6	6,942.3	20.5	21.8	-90.01	-693.8	507.4	330.1	289.2	40.97	8.058			
7,700.0	6,942.8	7,710.6	6,941.9	21.9	23.1	-90.01	-793.7	509.5	330.1	286.5	43.66	7.561			
7,800.0	6,942.4	7,810.6	6,941.4	23.3	24.4	-90.01	-893.7	511.5	330.1	283.6	46.52	7.097			
7,900.0	6,941.9	7,910.6	6,940.9	24.8	25.9	-90.01	-993.7	513.6	330.1	280.6	49.51	6.668			
8,000.0	6,941.4	8,010.6	6,940.5	26.3	27.3	-90.01	-1,093.7	515.7	330.1	277.5	52.61	6.275			
8,100.0	6,941.0	8,110.6	6,940.0	27.9	28.9	-90.01	-1,193.7	517.7	330.1	274.3	55.80	5.916			
8,200.0	6,940.5	8,210.6	6,939.5	29.6	30.5	-90.01	-1,293.6	519.8	330.1	271.0	59.08	5.588			
8,300.0	6,940.0	8,310.6	6,939.0	31.2	32.1	-90.01	-1,393.6	521.8	330.1	267.7	62.41	5.289			
8,400.0	6,939.5	8,410.6	6,938.6	32.9	33.7	-90.01	-1,493.6	523.9	330.1	264.3	65.81	5.017			
8,500.0	6,939.1	8,510.6	6,938.1	34.7	35.4	-90.01	-1,593.6	526.0	330.1	260.9	69.25	4.767			
8,600.0	6,938.6	8,610.6	6,937.6	36.4	37.1	-90.01	-1,693.5	528.0	330.1	257.4	72.73	4.539			
8,700.0	6,938.1	8,710.6	6,937.2	38.2	38.9	-90.01	-1,793.5	530.1	330.1	253.9	76.25	4.330			
8,800.0	6,937.7	8,810.6	6,936.7	39.9	40.6	-90.01	-1,893.5	532.2	330.1	250.3	79.80	4.137			
8,900.0	6,937.2	8,910.6	6,936.2	41.7	42.4	-90.01	-1,993.5	534.2	330.1	246.8	83.37	3.960			
9,000.0	6,936.7	9,010.6	6,935.8	43.5	44.1	-90.01	-2,093.5	536.3	330.1	243.2	86.97	3.796			
9,100.0	6,936.2	9,110.6	6,935.3	45.3	45.9	-90.01	-2,193.4	538.3	330.1	239.5	90.59	3.644			
9,200.0	6,935.8	9,210.6	6,934.8	47.1	47.7	-90.01	-2,293.4	540.4	330.1	235.9	94.22	3.504			
9,300.0	6,935.3	9,310.6	6,934.3	49.0	49.5	-90.01	-2,393.4	542.5	330.1	232.3	97.88	3.373			
9,400.0	6,934.8	9,410.6	6,933.9	50.8	51.3	-90.01	-2,493.4	544.5	330.1	228.6	101.54	3.251			
9,500.0	6,934.4	9,510.6	6,933.4	52.6	53.1	-90.01	-2,593.3	546.6	330.1	224.9	105.22	3.137			
9,600.0	6,933.9	9,610.6	6,932.9	54.5	55.0	-90.01	-2,693.3	548.7	330.1	221.2	108.92	3.031			
9,700.0	6,933.4	9,710.6	6,932.5	56.3	56.8	-90.01	-2,793.3	550.7	330.1	217.5	112.62	2.932			
9,800.0	6,932.9	9,810.6	6,932.0	58.2	58.6	-90.01	-2,893.3	552.8	330.1	213.8	116.33	2.838			
9,900.0	6,932.5	9,910.6	6,931.5	60.1	60.5	-90.01	-2,993.3	554.8	330.1	210.1	120.05	2.750			
10,000.0	6,932.0	10,010.6	6,931.0	61.9	62.3	-90.01	-3,093.2	556.9	330.1	206.4	123.78	2.667			
10,100.0	6,931.5	10,110.6	6,930.6	63.8	64.2	-90.01	-3,193.2	559.0	330.1	202.6	127.51	2.589			
10,200.0	6,931.1	10,210.6	6,930.1	65.7	66.1	-90.01	-3,293.2	561.0	330.1	198.9	131.25	2.515			

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	6,930.6	10,310.6	6,929.6	67.5	67.9	-90.01	-3,393.2	563.1	330.1	195.1	135.00	2.446			
10,400.0	6,930.1	10,410.6	6,929.2	69.4	69.8	-90.01	-3,493.1	565.2	330.1	191.4	138.75	2.379			
10,500.0	6,929.6	10,510.6	6,928.7	71.3	71.6	-90.01	-3,593.1	567.2	330.1	187.6	142.51	2.317			
10,600.0	6,929.2	10,610.6	6,928.2	73.2	73.5	-90.01	-3,693.1	569.3	330.1	183.9	146.27	2.257			
10,700.0	6,928.7	10,710.6	6,927.7	75.0	75.4	-90.01	-3,793.1	571.3	330.2	180.1	150.04	2.200			
10,800.0	6,928.2	10,810.6	6,927.3	76.9	77.3	-90.01	-3,893.1	573.4	330.2	176.3	153.81	2.146			
10,900.0	6,927.8	10,910.6	6,926.8	78.8	79.1	-90.01	-3,993.0	575.5	330.2	172.6	157.59	2.095			
11,000.0	6,927.3	11,010.6	6,926.3	80.7	81.0	-90.01	-4,093.0	577.5	330.2	168.8	161.36	2.046			
11,100.0	6,926.8	11,110.6	6,925.9	82.6	82.9	-90.01	-4,193.0	579.6	330.2	165.0	165.15	1.999			
11,200.0	6,926.4	11,210.6	6,925.4	84.5	84.8	-90.01	-4,293.0	581.6	330.2	161.2	168.93	1.954			
11,300.0	6,925.9	11,310.6	6,924.9	86.4	86.7	-90.01	-4,392.9	583.7	330.2	157.4	172.72	1.912			
11,400.0	6,925.4	11,410.6	6,924.4	88.3	88.6	-90.01	-4,492.9	585.8	330.2	153.7	176.51	1.871			
11,486.7	6,925.0	11,497.3	6,924.0	89.9	90.2	-90.01	-4,579.6	587.6	330.2	150.4	179.79	1.836 SF			

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.04	0.0	44.8	44.8					
100.0	100.0	99.0	99.0	0.1	0.1	90.04	0.0	44.8	44.8	44.5	0.22	200.180		
200.0	200.0	199.0	199.0	0.3	0.3	90.04	0.0	44.8	44.8	44.1	0.67	66.616		
300.0	300.0	299.0	299.0	0.6	0.6	90.04	0.0	44.8	44.8	43.6	1.12	39.916		
400.0	400.0	399.0	399.0	0.8	0.8	90.04	0.0	44.8	44.8	43.2	1.57	28.495		
500.0	500.0	499.0	499.0	1.0	1.0	90.04	0.0	44.8	44.8	42.7	2.02	22.156		
600.0	600.0	599.0	599.0	1.2	1.2	90.04	0.0	44.8	44.8	42.3	2.47	18.124		
700.0	700.0	699.0	699.0	1.5	1.5	90.04	0.0	44.8	44.8	41.8	2.92	15.333		
800.0	800.0	799.0	799.0	1.7	1.7	90.04	0.0	44.8	44.8	41.4	3.37	13.288	CC, ES	
900.0	900.0	897.5	897.5	1.9	1.9	89.50	0.4	46.4	46.4	42.6	3.81	12.189		
1,000.0	1,000.0	995.7	995.6	2.1	2.1	88.07	1.7	51.2	51.4	47.1	4.24	12.112		
1,100.0	1,100.0	1,093.5	1,093.0	2.4	2.3	86.22	3.9	59.3	59.7	55.0	4.68	12.749		
1,200.0	1,200.0	1,191.1	1,189.9	2.6	2.6	84.36	6.9	70.4	71.4	66.2	5.14	13.893		
1,300.0	1,300.0	1,290.2	1,288.2	2.8	2.8	82.89	10.3	82.9	84.2	78.6	5.60	15.038		
1,400.0	1,400.0	1,389.4	1,386.5	3.0	3.1	81.81	13.7	95.3	97.1	91.0	6.07	15.996		
1,500.0	1,500.0	1,488.5	1,484.8	3.3	3.4	80.98	17.1	107.7	110.0	103.4	6.55	16.802		
1,600.0	1,600.0	1,587.7	1,583.1	3.5	3.7	80.33	20.5	120.1	122.9	115.9	7.03	17.488		
1,700.0	1,700.0	1,687.0	1,681.6	3.7	4.0	36.16	23.9	132.6	134.8	127.4	7.35	18.348		
1,800.0	1,799.9	1,786.5	1,780.2	3.9	4.3	36.52	27.3	145.0	144.6	136.8	7.79	18.561		
1,900.0	1,899.7	1,886.1	1,879.0	4.1	4.6	37.43	30.7	157.5	152.3	144.1	8.23	18.494		
2,000.0	1,999.3	1,985.9	1,978.0	4.4	4.9	38.86	34.1	170.0	158.0	149.3	8.68	18.195		
2,100.0	2,098.7	2,085.7	2,076.9	4.6	5.2	40.63	37.5	182.5	162.4	153.3	9.15	17.757		
2,200.0	2,198.1	2,185.5	2,175.8	4.9	5.5	42.33	40.9	195.0	167.0	157.4	9.62	17.355		
2,300.0	2,297.5	2,285.2	2,274.8	5.1	5.9	43.94	44.3	207.5	171.7	161.6	10.10	16.991		
2,400.0	2,396.8	2,385.0	2,373.7	5.4	6.2	45.46	47.7	220.1	176.5	165.9	10.59	16.659		
2,500.0	2,496.2	2,484.8	2,472.6	5.6	6.5	46.91	51.1	232.6	181.4	170.3	11.09	16.356		
2,600.0	2,595.6	2,584.6	2,571.5	5.9	6.8	48.27	54.5	245.1	186.5	174.9	11.60	16.078		
2,700.0	2,695.0	2,684.3	2,670.5	6.2	7.1	49.56	57.9	257.6	191.6	179.5	12.11	15.823		
2,800.0	2,794.4	2,784.1	2,769.4	6.4	7.5	50.79	61.3	270.1	196.8	184.2	12.63	15.588		
2,900.0	2,893.8	2,883.9	2,868.3	6.7	7.8	51.95	64.7	282.6	202.1	189.0	13.15	15.370		
3,000.0	2,993.2	2,983.7	2,967.3	7.0	8.1	53.05	68.1	295.1	207.5	193.8	13.68	15.169		
3,100.0	3,092.6	3,083.4	3,066.2	7.3	8.4	54.09	71.5	307.6	213.0	198.8	14.22	14.982		
3,200.0	3,192.0	3,183.2	3,165.1	7.5	8.8	55.09	74.9	320.1	218.5	203.8	14.76	14.809		
3,300.0	3,291.4	3,283.0	3,264.1	7.8	9.1	56.03	78.3	332.6	224.1	208.8	15.30	14.647		
3,400.0	3,390.8	3,382.8	3,363.0	8.1	9.4	56.93	81.7	345.1	229.8	213.9	15.85	14.496		
3,500.0	3,490.2	3,482.6	3,461.9	8.4	9.7	57.78	85.1	357.6	235.5	219.1	16.40	14.355		
3,600.0	3,589.5	3,582.3	3,560.9	8.7	10.1	58.59	88.5	370.1	241.2	224.3	16.96	14.223		
3,700.0	3,688.9	3,682.1	3,659.8	9.0	10.4	59.37	91.9	382.6	247.1	229.5	17.52	14.102		
3,800.0	3,788.5	3,781.9	3,758.7	9.2	10.7	59.89	95.3	395.1	253.7	235.7	18.01	14.084		
3,900.0	3,888.3	3,881.5	3,857.6	9.4	11.0	59.91	98.7	407.6	261.6	243.2	18.47	14.164		
4,000.0	3,988.2	3,981.1	3,956.2	9.6	11.4	59.47	102.1	420.1	270.9	252.0	18.89	14.339		
4,100.0	4,088.1	4,080.4	4,054.7	9.7	11.7	58.62	105.5	432.5	281.5	262.3	19.28	14.604		
4,200.0	4,188.1	4,179.5	4,153.0	9.9	12.0	101.32	108.9	444.9	293.1	273.4	19.72	14.865		
4,300.0	4,288.1	4,278.7	4,251.3	10.1	12.4	100.23	112.2	457.4	304.8	284.7	20.13	15.144		
4,400.0	4,388.1	4,377.9	4,349.7	10.3	12.7	99.22	115.6	469.8	316.6	296.0	20.54	15.416		
4,500.0	4,488.1	4,477.0	4,448.0	10.5	13.0	98.28	119.0	482.2	328.5	307.5	20.95	15.678		
4,600.0	4,588.1	4,576.2	4,546.3	10.7	13.3	97.41	122.4	494.6	340.4	319.1	21.37	15.931		
4,700.0	4,688.1	4,675.3	4,644.6	10.9	13.7	96.60	125.8	507.1	352.5	330.7	21.79	16.176		
4,800.0	4,788.1	4,774.5	4,742.9	11.1	14.0	95.84	129.2	519.5	364.6	342.4	22.21	16.413		
4,900.0	4,888.1	4,873.6	4,841.2	11.4	14.3	95.13	132.5	531.9	376.7	354.1	22.64	16.641		
5,000.0	4,988.1	4,972.8	4,939.5	11.6	14.6	94.47	135.9	544.4	388.9	365.9	23.07	16.862		
5,100.0	5,088.1	5,071.9	5,037.9	11.8	15.0	93.84	139.3	556.8	401.2	377.7	23.50	17.075		

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

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,188.1	5,171.1	5,136.2	12.0	15.3	93.26	142.7	569.2	413.5	389.6	23.93	17.282			
5,300.0	5,288.1	5,270.2	5,234.5	12.2	15.6	92.70	146.1	581.6	425.9	401.5	24.36	17.481			
5,400.0	5,388.1	5,369.4	5,332.8	12.4	15.9	92.18	149.4	594.1	438.3	413.5	24.80	17.673			
5,500.0	5,488.1	5,468.5	5,431.1	12.6	16.3	91.69	152.8	606.5	450.7	425.4	25.23	17.859			
5,600.0	5,588.1	5,567.7	5,529.4	12.8	16.6	91.22	156.2	618.9	463.1	437.4	25.67	18.039			
5,700.0	5,688.1	5,666.8	5,627.7	13.0	16.9	90.78	159.6	631.3	475.6	449.5	26.11	18.214			
5,800.0	5,788.1	5,785.4	5,745.5	13.2	17.2	90.36	163.0	643.8	486.1	459.6	26.55	18.312			
5,900.0	5,888.1	5,904.8	5,864.7	13.5	17.4	90.10	165.1	651.7	492.7	465.7	26.97	18.268			
6,000.0	5,988.1	6,024.7	5,984.6	13.7	17.6	90.01	166.0	654.7	495.2	467.8	27.39	18.081			
6,100.0	6,088.1	6,127.3	6,087.1	13.9	17.8	90.00	166.0	654.8	495.3	467.5	27.80	17.818			
6,200.0	6,188.1	6,227.3	6,187.1	14.1	18.0	90.00	166.0	654.8	495.3	467.1	28.21	17.558			
6,300.0	6,288.1	6,327.3	6,287.1	14.3	18.1	90.00	166.0	654.8	495.3	466.7	28.62	17.306			
6,400.0	6,388.1	6,427.3	6,387.1	14.5	18.3	90.00	166.0	654.8	495.3	466.2	29.03	17.059			
6,500.0	6,488.0	6,527.2	6,487.0	14.7	18.4	-89.28	166.0	654.8	495.2	465.9	29.34	16.878			
6,539.4	6,526.9	6,566.0	6,525.9	14.7	18.5	-90.00	166.0	654.8	495.2	465.7	29.43	16.827			
6,600.0	6,585.4	6,624.6	6,584.4	14.8	18.6	-91.69	166.0	654.8	495.4	465.9	29.53	16.774			
6,700.0	6,677.0	6,722.7	6,682.4	14.9	18.7	-95.53	162.0	654.9	497.9	468.2	29.61	16.813			
6,800.0	6,759.2	6,830.2	6,786.9	15.0	18.9	-99.47	137.8	655.4	503.0	473.4	29.62	16.982			
6,900.0	6,829.1	6,948.1	6,893.2	15.1	18.9	-103.21	87.3	656.4	510.2	480.6	29.60	17.236			
7,000.0	6,884.2	7,078.1	6,993.8	15.3	19.1	-106.59	5.7	658.1	518.4	488.7	29.66	17.477			
7,100.0	6,922.3	7,220.6	7,077.3	15.7	19.3	-109.31	-109.4	660.4	525.8	495.9	29.93	17.566			
7,200.0	6,942.1	7,374.0	7,128.8	16.3	19.8	-111.04	-253.3	663.4	530.8	500.1	30.71	17.286			
7,300.0	6,944.7	7,512.6	7,138.6	17.2	20.6	-111.49	-391.1	666.3	532.2	500.0	32.16	16.547			
7,400.0	6,944.3	7,612.6	7,138.3	18.1	21.3	-111.50	-491.1	668.3	532.2	498.3	33.94	15.680			
7,500.0	6,943.8	7,712.6	7,137.9	19.3	22.3	-111.51	-591.1	670.4	532.2	496.2	36.00	14.785			
7,600.0	6,943.3	7,812.6	7,137.6	20.5	23.3	-111.52	-691.0	672.4	532.3	494.0	38.29	13.901			
7,700.0	6,942.8	7,912.6	7,137.3	21.9	24.5	-111.54	-791.0	674.5	532.3	491.6	40.77	13.057			
7,800.0	6,942.4	8,012.6	7,136.9	23.3	25.8	-111.55	-891.0	676.6	532.4	489.0	43.41	12.263			
7,900.0	6,941.9	8,112.6	7,136.6	24.8	27.1	-111.56	-991.0	678.6	532.4	486.2	46.19	11.528			
8,000.0	6,941.4	8,212.6	7,136.2	26.3	28.5	-111.57	-1,091.0	680.7	532.5	483.4	49.07	10.852			
8,100.0	6,941.0	8,312.6	7,135.9	27.9	30.0	-111.58	-1,190.9	682.8	532.5	480.5	52.04	10.233			
8,200.0	6,940.5	8,412.6	7,135.5	29.6	31.6	-111.60	-1,290.9	684.8	532.6	477.5	55.09	9.667			
8,300.0	6,940.0	8,512.6	7,135.2	31.2	33.1	-111.61	-1,390.9	686.9	532.6	474.4	58.20	9.151			
8,400.0	6,939.5	8,612.6	7,134.8	32.9	34.7	-111.62	-1,490.9	689.0	532.7	471.3	61.37	8.679			
8,500.0	6,939.1	8,712.6	7,134.5	34.7	36.4	-111.63	-1,590.8	691.0	532.7	468.1	64.59	8.248			
8,600.0	6,938.6	8,812.6	7,134.1	36.4	38.0	-111.64	-1,690.8	693.1	532.8	464.9	67.84	7.853			
8,700.0	6,938.1	8,912.6	7,133.8	38.2	39.7	-111.66	-1,790.8	695.1	532.8	461.7	71.13	7.491			
8,800.0	6,937.7	9,012.6	7,133.4	39.9	41.4	-111.67	-1,890.8	697.2	532.9	458.4	74.45	7.157			
8,900.0	6,937.2	9,112.6	7,133.1	41.7	43.1	-111.68	-1,990.8	699.3	532.9	455.1	77.79	6.850			
9,000.0	6,936.7	9,212.6	7,132.7	43.5	44.9	-111.69	-2,090.7	701.3	532.9	451.8	81.16	6.567			
9,100.0	6,936.2	9,312.6	7,132.4	45.3	46.6	-111.71	-2,190.7	703.4	533.0	448.5	84.54	6.305			
9,200.0	6,935.8	9,412.6	7,132.0	47.1	48.4	-111.72	-2,290.7	705.5	533.0	445.1	87.94	6.061			
9,300.0	6,935.3	9,512.6	7,131.7	49.0	50.2	-111.73	-2,390.7	707.5	533.1	441.7	91.36	5.835			
9,400.0	6,934.8	9,612.6	7,131.3	50.8	52.0	-111.74	-2,490.6	709.6	533.1	438.3	94.79	5.624			
9,500.0	6,934.4	9,712.6	7,131.0	52.6	53.8	-111.75	-2,590.6	711.6	533.2	434.9	98.24	5.428			
9,600.0	6,933.9	9,812.6	7,130.6	54.5	55.6	-111.77	-2,690.6	713.7	533.2	431.5	101.69	5.244			
9,700.0	6,933.4	9,912.6	7,130.3	56.3	57.4	-111.78	-2,790.6	715.8	533.3	428.1	105.15	5.071			
9,800.0	6,932.9	10,012.6	7,129.9	58.2	59.2	-111.79	-2,890.6	717.8	533.3	424.7	108.63	4.910			
9,900.0	6,932.5	10,112.6	7,129.6	60.1	61.1	-111.80	-2,990.5	719.9	533.4	421.3	112.11	4.758			
10,000.0	6,932.0	10,212.6	7,129.2	61.9	62.9	-111.81	-3,090.5	722.0	533.4	417.8	115.60	4.614			
10,100.0	6,931.5	10,312.6	7,128.9	63.8	64.7	-111.83	-3,190.5	724.0	533.5	414.4	119.09	4.479			
10,200.0	6,931.1	10,412.6	7,128.5	65.7	66.6	-111.84	-3,290.5	726.1	533.5	410.9	122.59	4.352			

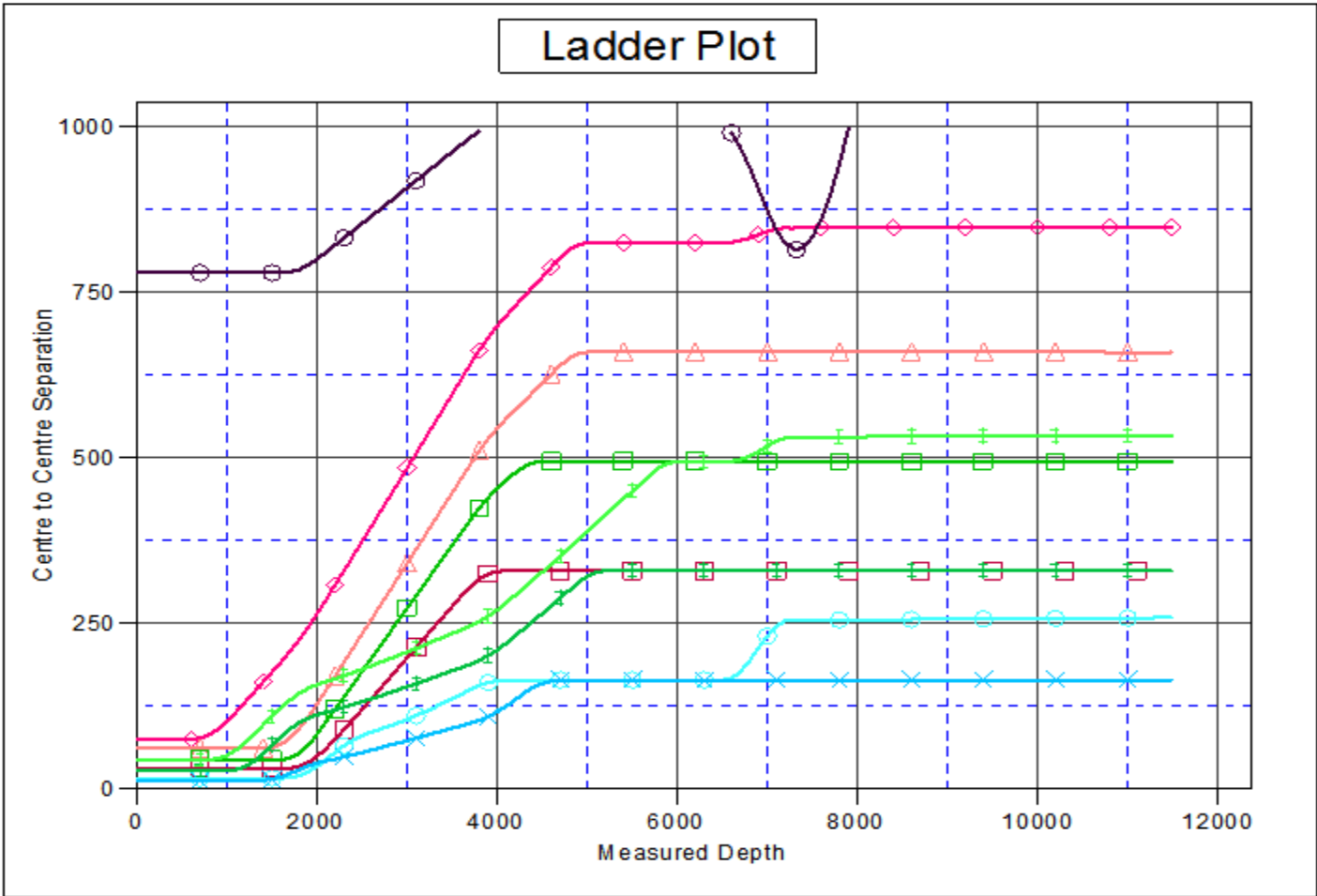
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	6,930.6	10,512.6	7,128.2	67.5	68.4	-111.85	-3,390.5	728.1	533.6	407.5	126.10	4.231			
10,400.0	6,930.1	10,612.6	7,127.8	69.4	70.3	-111.86	-3,490.4	730.2	533.6	404.0	129.61	4.117			
10,500.0	6,929.6	10,712.6	7,127.5	71.3	72.1	-111.88	-3,590.4	732.3	533.6	400.5	133.12	4.009			
10,600.0	6,929.2	10,812.6	7,127.1	73.2	74.0	-111.89	-3,690.4	734.3	533.7	397.1	136.64	3.906			
10,700.0	6,928.7	10,912.6	7,126.8	75.0	75.9	-111.90	-3,790.4	736.4	533.7	393.6	140.16	3.808			
10,800.0	6,928.2	11,012.6	7,126.4	76.9	77.7	-111.91	-3,890.3	738.5	533.8	390.1	143.69	3.715			
10,900.0	6,927.8	11,112.6	7,126.1	78.8	79.6	-111.92	-3,990.3	740.5	533.8	386.6	147.22	3.626			
11,000.0	6,927.3	11,212.6	7,125.7	80.7	81.5	-111.94	-4,090.3	742.6	533.9	383.1	150.75	3.542			
11,100.0	6,926.8	11,312.6	7,125.4	82.6	83.3	-111.95	-4,190.3	744.6	533.9	379.6	154.28	3.461			
11,200.0	6,926.4	11,412.6	7,125.0	84.5	85.2	-111.96	-4,290.3	746.7	534.0	376.2	157.82	3.383			
11,300.0	6,925.9	11,512.6	7,124.7	86.4	87.1	-111.97	-4,390.2	748.8	534.0	372.7	161.36	3.310			
11,400.0	6,925.4	11,612.6	7,124.3	88.3	89.0	-111.98	-4,490.2	750.8	534.1	369.2	164.90	3.239			
11,486.7	6,925.0	11,699.3	7,124.0	89.9	90.6	-111.99	-4,576.9	752.6	534.1	366.1	167.97	3.180 SF			

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5025.0ft (Original Well Elev) Coordinates are relative to: Pastelak 01N-64W-02-6N  
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.63°

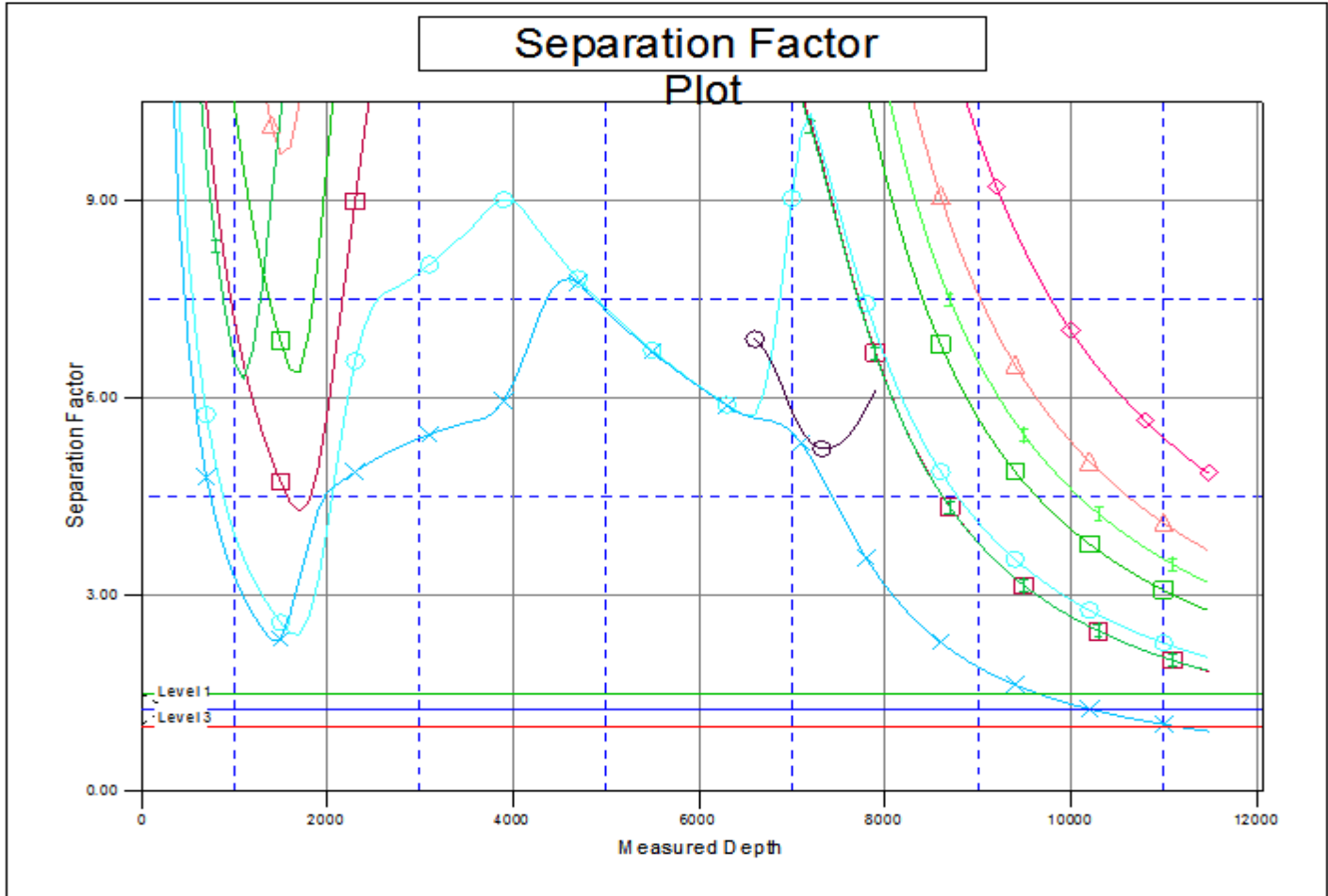


**LEGEND**

- 64W-02-1C, Wellbore #1, Plan #1 (8-8-14) ■ Pastelak 01N-64W-02-4N, Wellbore #1, Plan #1 (8-8-14) ■ Pastelak 01N-64W-02-8N, Wellbore
- 64W-02-2N, Wellbore #1, Plan #1 (8-8-14) ■ Pastelak 01N-64W-02-5C, Wellbore #1, Plan #1 (8-8-14) ■ Pastelak 01N-64W-02-9C, Wellbore
- 64W-02-3N, Wellbore #1, Plan #1 (8-8-14) x Pastelak 01N-64W-02-7N, Wellbore #1, Plan #1 (8-8-14) ○ Schweitzer 11-2 (P&A), Wellbore #1

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Pastelak 01N-64W-02-6N
<b>Project:</b>	SEC.2-T1N-R64W	<b>TVD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Reference Site:</b>	Pastelak 01N-64W-02 Pad Sec.2-T1N-R64W	<b>MD Reference:</b>	WELL @ 5025.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pastelak 01N-64W-02-6N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	landmark
<b>Reference Design:</b>	Plan #1 (8-6-14)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5025.0ft (Original Well Elev) Coordinates are relative to: Pastelak 01N-64W-02-6N  
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.63°



**LEGEND**

- 84W-02-1C, Wellbore #1, Plan #1 (8-6-14) ■ Pastelak 01N-64W-02-4N, Wellbore #1, Plan #1 (8-6-14) ■ Pastelak 01N-64W-02-8N, Wellbore #1, Plan #1 (8-6-14) ■
- 84W-02-2N, Wellbore #1, Plan #1 (8-6-14) ■ Pastelak 01N-64W-02-5C, Wellbore #1, Plan #1 (8-6-14) ■ Pastelak 01N-64W-02-9C, Wellbore #1, Plan #1 (8-6-14) ■
- 84W-02-3N, Wellbore #1, Plan #1 (8-6-14) ■ Pastelak 01N-64W-02-7N, Wellbore #1, Plan #1 (8-6-14) ■ Schweitzer 11-2 (P&A), Wellbore #1 ■