

# Verdad Oil & Gas Corporation

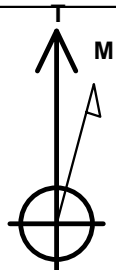
Well Name: **Johnson 01N-65W-30-4N**

Surface Location: Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
Ground Elevation: 5000.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1249522.92	3221323.73	40.015620	-104.709800	
Original Well Elev WELL @ 5013.0ft (Original Well Elev)						

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
460' Setback BHL	1.0	4615.6	-1244.8	Polygon
460' Setback SHL	1.0	251.4	-1244.8	Polygon
Sectionline	1.0	-208.6	-1244.8	Polygon
SHL 205'FSL & 1779'FWL	1.0	0.0	0.0	Point
Lehl 1 300' Circle	7.0	1449.5	-772.2	Circle (Radius: 300.0)
BHL 460'FNL & 1155'FWL	7278.0	4619.2	-604.9	Point



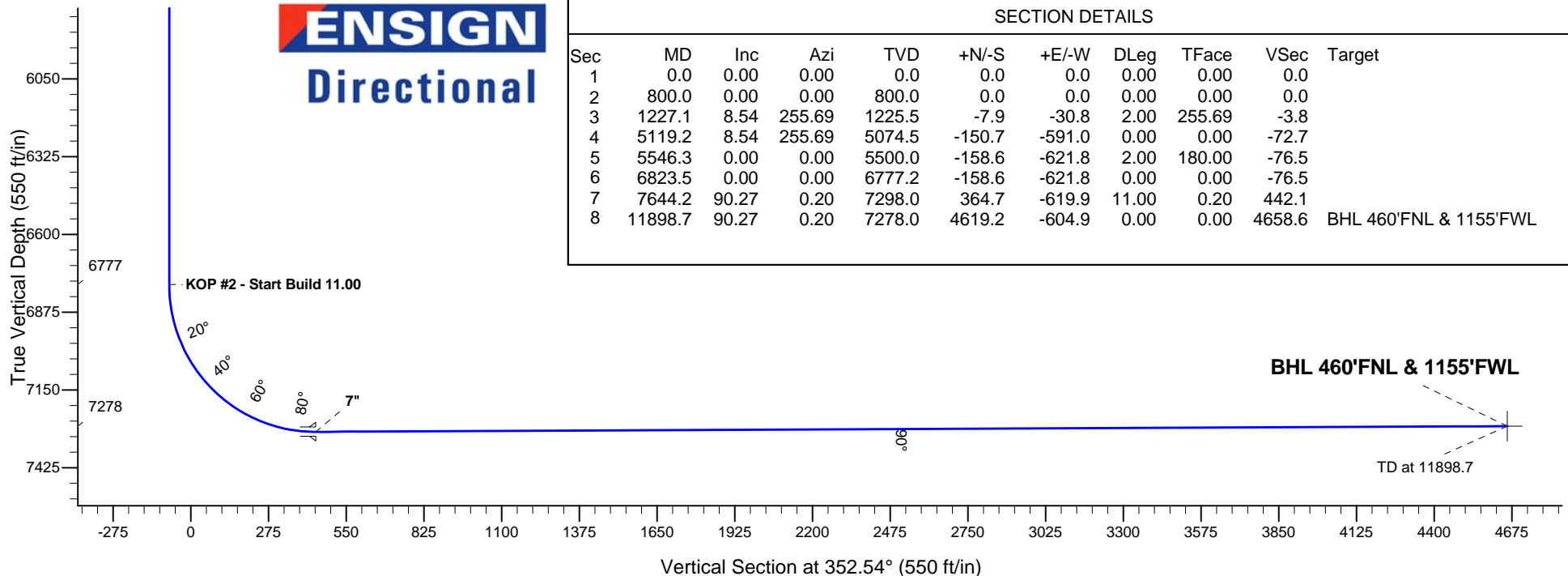
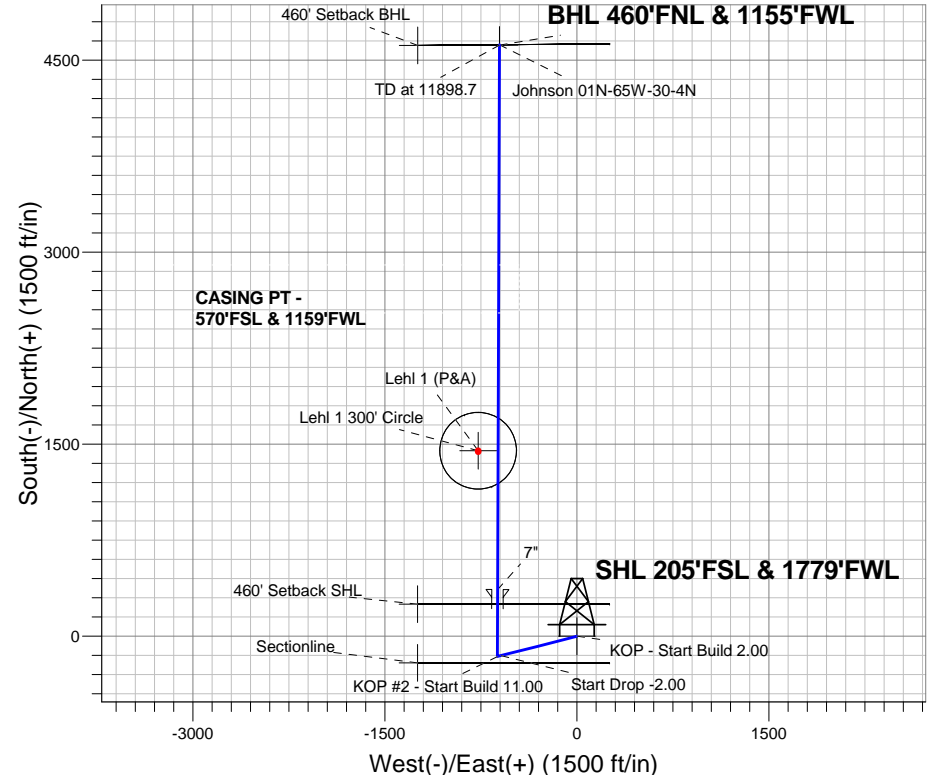
Azimuths to True North  
Magnetic North: 8.38°

Magnetic Field  
Strength: 52604.1snT  
Dip Angle: 66.64°  
Date: 8/1/2014  
Model: IGRF2010

Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W  
Johnson 01N-65W-30-4N  
Plan #2 (8-5-14)

## ANNOTATIONS

TVD	MD	Annotation
800.0	800.0	KOP - Start Build 2.00
5074.5	5119.2	Start Drop -2.00
6777.2	6823.5	KOP #2 - Start Build 11.00
7278.0	11898.7	TD at 11898.7





# **Verdad Oil & Gas Corporation**

**SEC.30-T1N-R65W**

**Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W**

**Johnson 01N-65W-30-4N**

**Wellbore #1**

**Plan: Plan #2 (8-5-14)**

## **Standard Planning Report**

**05 August, 2014**

<b>Database:</b>	landmark	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Company:</b>	Verdad Oil & Gas Corporation	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Project:</b>	SEC.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Johnson 01N-65W-30-4N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (8-5-14)		

<b>Project</b>	SEC.30-T1N-R65W, 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

Site		Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W			
Site Position:		Northing:	1,249,518.89ft	Latitude:	40.015610
From:	Lat/Long	Easting:	3,221,278.95ft	Longitude:	-104.709960
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.51 °

Well	Johnson 01N-65W-30-4N					
Well Position	+N/-S	3.6 ft	Northing:	1,249,522.92 ft	Latitude:	40.015620
	+E/-W	44.8 ft	Easting:	3,221,323.73 ft	Longitude:	-104.709800
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,000.0 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	8/1/2014	8.38	66.64	52,604

<b>Design</b>	Plan #2 (8-5-14)			
<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	352.54

<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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,227.1	8.54	255.69	1,225.5	-7.9	-30.8	2.00	2.00	0.00	255.69	
5,119.2	8.54	255.69	5,074.5	-150.7	-591.0	0.00	0.00	0.00	0.00	
5,546.3	0.00	0.00	5,500.0	-158.6	-621.8	2.00	-2.00	0.00	180.00	
6,823.5	0.00	0.00	6,777.2	-158.6	-621.8	0.00	0.00	0.00	0.00	
7,644.2	90.27	0.20	7,298.0	364.7	-619.9	11.00	11.00	0.00	0.20	
11,898.7	90.27	0.20	7,278.0	4,619.2	-604.9	0.00	0.00	0.00	0.00	BHL 460'FNL & 115°

<b>Database:</b>	landmark	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Company:</b>	Verdad Oil & Gas Corporation	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Project:</b>	SEC.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Johnson 01N-65W-30-4N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (8-5-14)		

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
KOP - Start Build 2.00									
900.0	2.00	255.69	900.0	-0.4	-1.7	-0.2	2.00	2.00	0.00
1,000.0	4.00	255.69	999.8	-1.7	-6.8	-0.8	2.00	2.00	0.00
1,100.0	6.00	255.69	1,099.5	-3.9	-15.2	-1.9	2.00	2.00	0.00
1,200.0	8.00	255.69	1,198.7	-6.9	-27.0	-3.3	2.00	2.00	0.00
1,227.1	8.54	255.69	1,225.5	-7.9	-30.8	-3.8	2.00	2.00	0.00
1,300.0	8.54	255.69	1,297.6	-10.5	-41.3	-5.1	0.00	0.00	0.00
1,400.0	8.54	255.69	1,396.5	-14.2	-55.7	-6.9	0.00	0.00	0.00
1,500.0	8.54	255.69	1,495.4	-17.9	-70.1	-8.6	0.00	0.00	0.00
1,600.0	8.54	255.69	1,594.3	-21.5	-84.5	-10.4	0.00	0.00	0.00
1,700.0	8.54	255.69	1,693.2	-25.2	-98.9	-12.2	0.00	0.00	0.00
1,800.0	8.54	255.69	1,792.1	-28.9	-113.3	-13.9	0.00	0.00	0.00
1,900.0	8.54	255.69	1,891.0	-32.6	-127.6	-15.7	0.00	0.00	0.00
2,000.0	8.54	255.69	1,989.8	-36.2	-142.0	-17.5	0.00	0.00	0.00
2,100.0	8.54	255.69	2,088.7	-39.9	-156.4	-19.3	0.00	0.00	0.00
2,200.0	8.54	255.69	2,187.6	-43.6	-170.8	-21.0	0.00	0.00	0.00
2,300.0	8.54	255.69	2,286.5	-47.2	-185.2	-22.8	0.00	0.00	0.00
2,400.0	8.54	255.69	2,385.4	-50.9	-199.6	-24.6	0.00	0.00	0.00
2,500.0	8.54	255.69	2,484.3	-54.6	-214.0	-26.3	0.00	0.00	0.00
2,600.0	8.54	255.69	2,583.2	-58.3	-228.4	-28.1	0.00	0.00	0.00
2,700.0	8.54	255.69	2,682.1	-61.9	-242.8	-29.9	0.00	0.00	0.00
2,800.0	8.54	255.69	2,781.0	-65.6	-257.2	-31.7	0.00	0.00	0.00
2,900.0	8.54	255.69	2,879.9	-69.3	-271.6	-33.4	0.00	0.00	0.00
3,000.0	8.54	255.69	2,978.8	-72.9	-286.0	-35.2	0.00	0.00	0.00
3,100.0	8.54	255.69	3,077.6	-76.6	-300.4	-37.0	0.00	0.00	0.00
3,200.0	8.54	255.69	3,176.5	-80.3	-314.8	-38.7	0.00	0.00	0.00
3,300.0	8.54	255.69	3,275.4	-84.0	-329.2	-40.5	0.00	0.00	0.00
3,400.0	8.54	255.69	3,374.3	-87.6	-343.5	-42.3	0.00	0.00	0.00
3,500.0	8.54	255.69	3,473.2	-91.3	-357.9	-44.1	0.00	0.00	0.00
3,600.0	8.54	255.69	3,572.1	-95.0	-372.3	-45.8	0.00	0.00	0.00
3,700.0	8.54	255.69	3,671.0	-98.6	-386.7	-47.6	0.00	0.00	0.00
3,800.0	8.54	255.69	3,769.9	-102.3	-401.1	-49.4	0.00	0.00	0.00
3,900.0	8.54	255.69	3,868.8	-106.0	-415.5	-51.1	0.00	0.00	0.00
4,000.0	8.54	255.69	3,967.7	-109.7	-429.9	-52.9	0.00	0.00	0.00
4,100.0	8.54	255.69	4,066.5	-113.3	-444.3	-54.7	0.00	0.00	0.00
4,200.0	8.54	255.69	4,165.4	-117.0	-458.7	-56.5	0.00	0.00	0.00
4,300.0	8.54	255.69	4,264.3	-120.7	-473.1	-58.2	0.00	0.00	0.00
4,400.0	8.54	255.69	4,363.2	-124.3	-487.5	-60.0	0.00	0.00	0.00
4,500.0	8.54	255.69	4,462.1	-128.0	-501.9	-61.8	0.00	0.00	0.00
4,600.0	8.54	255.69	4,561.0	-131.7	-516.3	-63.5	0.00	0.00	0.00
4,700.0	8.54	255.69	4,659.9	-135.4	-530.7	-65.3	0.00	0.00	0.00
4,800.0	8.54	255.69	4,758.8	-139.0	-545.1	-67.1	0.00	0.00	0.00
4,900.0	8.54	255.69	4,857.7	-142.7	-559.5	-68.9	0.00	0.00	0.00
5,000.0	8.54	255.69	4,956.6	-146.4	-573.8	-70.6	0.00	0.00	0.00

<b>Database:</b>	landmark	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Company:</b>	Verdad Oil & Gas Corporation	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Project:</b>	SEC.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Johnson 01N-65W-30-4N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (8-5-14)		

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)	
5,100.0	8.54	255.69	5,055.5	-150.0	-588.2	-72.4	0.00	0.00	0.00	
5,119.2	8.54	255.69	5,074.4	-150.7	-591.0	-72.7	0.00	0.00	0.00	
<b>Start Drop -2.00</b>										
5,200.0	6.93	255.69	5,154.5	-153.4	-601.5	-74.0	2.00	-2.00	0.00	
5,300.0	4.93	255.69	5,254.0	-156.0	-611.5	-75.3	2.00	-2.00	0.00	
5,400.0	2.93	255.69	5,353.7	-157.7	-618.2	-76.1	2.00	-2.00	0.00	
5,500.0	0.93	255.69	5,453.7	-158.5	-621.4	-76.5	2.00	-2.00	0.00	
5,546.3	0.00	0.00	5,500.0	-158.6	-621.8	-76.5	2.00	-2.00	0.00	
5,600.0	0.00	0.00	5,553.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,653.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,753.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,853.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,953.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,053.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,153.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,253.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,353.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,453.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,553.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,653.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,753.7	-158.6	-621.8	-76.5	0.00	0.00	0.00	
6,823.5	0.00	0.00	6,777.2	-158.6	-621.8	-76.5	0.00	0.00	0.00	
<b>KOP #2 - Start Build 11.00</b>										
6,900.0	8.41	0.20	6,853.4	-153.0	-621.8	-71.0	11.00	11.00	0.00	
7,000.0	19.41	0.20	6,950.3	-129.0	-621.7	-47.2	11.00	11.00	0.00	
7,100.0	30.41	0.20	7,040.9	-86.9	-621.5	-5.5	11.00	11.00	0.00	
7,200.0	41.41	0.20	7,121.7	-28.4	-621.3	52.5	11.00	11.00	0.00	
7,300.0	52.41	0.20	7,189.9	44.6	-621.1	124.8	11.00	11.00	0.00	
7,400.0	63.41	0.20	7,243.0	129.1	-620.8	208.6	11.00	11.00	0.00	
7,500.0	74.41	0.20	7,278.9	222.3	-620.5	301.0	11.00	11.00	0.00	
7,600.0	85.41	0.20	7,296.4	320.6	-620.1	398.4	11.00	11.00	0.00	
7,644.2	90.27	0.20	7,298.0	364.8	-619.9	442.2	10.99	10.99	0.00	
<b>7"</b>										
7,700.0	90.27	0.20	7,297.8	420.6	-619.8	497.5	0.00	0.00	0.00	
7,800.0	90.27	0.20	7,297.3	520.6	-619.4	596.6	0.00	0.00	0.00	
7,900.0	90.27	0.20	7,296.8	620.6	-619.0	695.7	0.00	0.00	0.00	
8,000.0	90.27	0.20	7,296.4	720.6	-618.7	794.8	0.00	0.00	0.00	
8,100.0	90.27	0.20	7,295.9	820.6	-618.3	893.9	0.00	0.00	0.00	
8,200.0	90.27	0.20	7,295.4	920.6	-618.0	993.0	0.00	0.00	0.00	
8,300.0	90.27	0.20	7,295.0	1,020.6	-617.6	1,092.1	0.00	0.00	0.00	
8,400.0	90.27	0.20	7,294.5	1,120.5	-617.3	1,191.2	0.00	0.00	0.00	
8,500.0	90.27	0.20	7,294.0	1,220.5	-616.9	1,290.3	0.00	0.00	0.00	
8,600.0	90.27	0.20	7,293.5	1,320.5	-616.6	1,389.4	0.00	0.00	0.00	
8,700.0	90.27	0.20	7,293.1	1,420.5	-616.2	1,488.5	0.00	0.00	0.00	
8,800.0	90.27	0.20	7,292.6	1,520.5	-615.9	1,587.6	0.00	0.00	0.00	
8,900.0	90.27	0.20	7,292.1	1,620.5	-615.5	1,686.7	0.00	0.00	0.00	
9,000.0	90.27	0.20	7,291.7	1,720.5	-615.2	1,785.8	0.00	0.00	0.00	
9,100.0	90.27	0.20	7,291.2	1,820.5	-614.8	1,884.9	0.00	0.00	0.00	
9,200.0	90.27	0.20	7,290.7	1,920.5	-614.4	1,984.1	0.00	0.00	0.00	
9,300.0	90.27	0.20	7,290.2	2,020.5	-614.1	2,083.2	0.00	0.00	0.00	
9,400.0	90.27	0.20	7,289.8	2,120.5	-613.7	2,182.3	0.00	0.00	0.00	
9,500.0	90.27	0.20	7,289.3	2,220.5	-613.4	2,281.4	0.00	0.00	0.00	
9,600.0	90.27	0.20	7,288.8	2,320.5	-613.0	2,380.5	0.00	0.00	0.00	

<b>Database:</b>	landmark	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Company:</b>	Verdad Oil & Gas Corporation	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Project:</b>	SEC.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>North Reference:</b>	True
<b>Well:</b>	Johnson 01N-65W-30-4N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (8-5-14)		

#### 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)
9,700.0	90.27	0.20	7,288.4	2,420.5	-612.7	2,479.6	0.00	0.00	0.00
9,800.0	90.27	0.20	7,287.9	2,520.5	-612.3	2,578.7	0.00	0.00	0.00
9,900.0	90.27	0.20	7,287.4	2,620.5	-612.0	2,677.8	0.00	0.00	0.00
10,000.0	90.27	0.20	7,286.9	2,720.5	-611.6	2,776.9	0.00	0.00	0.00
10,100.0	90.27	0.20	7,286.5	2,820.5	-611.3	2,876.0	0.00	0.00	0.00
10,200.0	90.27	0.20	7,286.0	2,920.5	-610.9	2,975.1	0.00	0.00	0.00
10,300.0	90.27	0.20	7,285.5	3,020.5	-610.6	3,074.2	0.00	0.00	0.00
10,400.0	90.27	0.20	7,285.1	3,120.5	-610.2	3,173.3	0.00	0.00	0.00
10,500.0	90.27	0.20	7,284.6	3,220.5	-609.8	3,272.4	0.00	0.00	0.00
10,600.0	90.27	0.20	7,284.1	3,320.5	-609.5	3,371.5	0.00	0.00	0.00
10,700.0	90.27	0.20	7,283.6	3,420.5	-609.1	3,470.6	0.00	0.00	0.00
10,800.0	90.27	0.20	7,283.2	3,520.5	-608.8	3,569.7	0.00	0.00	0.00
10,900.0	90.27	0.20	7,282.7	3,620.5	-608.4	3,668.9	0.00	0.00	0.00
11,000.0	90.27	0.20	7,282.2	3,720.5	-608.1	3,768.0	0.00	0.00	0.00
11,100.0	90.27	0.20	7,281.8	3,820.5	-607.7	3,867.1	0.00	0.00	0.00
11,200.0	90.27	0.20	7,281.3	3,920.5	-607.4	3,966.2	0.00	0.00	0.00
11,300.0	90.27	0.20	7,280.8	4,020.5	-607.0	4,065.3	0.00	0.00	0.00
11,400.0	90.27	0.20	7,280.4	4,120.5	-606.7	4,164.4	0.00	0.00	0.00
11,500.0	90.27	0.20	7,279.9	4,220.5	-606.3	4,263.5	0.00	0.00	0.00
11,600.0	90.27	0.20	7,279.4	4,320.5	-606.0	4,362.6	0.00	0.00	0.00
11,700.0	90.27	0.20	7,278.9	4,420.5	-605.6	4,461.7	0.00	0.00	0.00
11,800.0	90.27	0.20	7,278.5	4,520.5	-605.3	4,560.8	0.00	0.00	0.00
11,898.7	90.27	0.20	7,278.0	4,619.2	-604.9	4,658.6	0.00	0.00	0.00
TD at 11898.7									

#### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,644.2	7,298.0	7"	7	7-1/2

#### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
800.0	800.0	0.0	0.0	KOP - Start Build 2.00
5,119.2	5,074.5	-7.9	-30.8	Start Drop -2.00
6,823.5	6,777.2	-150.7	-591.0	KOP #2 - Start Build 11.00
11,898.7	7,278.0	-158.6	-621.8	TD at 11898.7



# **Verdad Oil & Gas Corporation**

**SEC.30-T1N-R65W**

**Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W**

**Johnson 01N-65W-30-4N**

**Wellbore #1**

**Plan #2 (8-5-14)**

## **Anticollision Report**

**05 August, 2014**

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #2 (8-5-14)		
<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>	<b>Date</b> 8/5/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	11,898.7	Plan #2 (8-5-14) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Existing Wells Sec.30-T1N-R65W						
Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1	11,223.1	7,259.2	661.3	438.6	2.970	CC, ES, SF
Lehl 1 (P&A) - Wellbore #1 - Wellbore #1	8,728.4	7,286.9	156.1	-22.1	0.876	Level 1, CC, ES, SF
Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W						
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	200.0	200.0	45.0	44.3	66.682	CC, ES
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	11,899.4	12,150.9	533.8	366.6	3.193	SF
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	400.0	400.0	31.0	29.5	19.719	CC, ES
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	11,899.4	11,732.0	383.9	222.9	2.384	SF
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14)	600.0	600.0	14.5	12.0	5.853	CC
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14)	11,899.4	11,905.5	115.2	-65.4	0.638	Level 1, ES, SF
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #1 (8-1-14)	800.0	800.0	16.8	13.4	4.985	CC, ES
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #1 (8-1-14)	11,899.4	12,003.5	263.3	134.9	2.051	SF
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8-1-14)	800.0	800.0	30.8	27.4	9.139	CC, ES
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8-1-14)	11,899.4	11,790.4	330.4	150.2	1.833	SF
Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8-1-14)	800.0	799.0	44.8	41.4	13.301	CC, ES
Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8-1-14)	11,899.4	11,779.1	495.7	315.4	2.750	SF
Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8-1-14)	800.0	799.0	61.6	58.3	18.290	CC, ES
Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8-1-14)	11,899.4	11,768.7	660.9	480.5	3.665	SF
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14)	800.0	799.0	75.6	72.3	22.446	CC, ES
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14)	11,899.4	11,972.2	851.2	675.0	4.830	SF

<b>Offset Design</b> Existing Wells Sec.30-T1N-R65W - Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1											
Survey Program: 8208-UNKNOWN											
Reference		Offset		Semi Major Axis		Distance					
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)
10,500.0	7,284.6	7,262.6	7,262.6	64.7	145.3	90.30	3,941.2	54.1	979.9	770.6	209.32
10,600.0	7,284.1	7,262.1	7,262.1	66.6	145.2	90.25	3,941.2	54.1	908.6	697.5	211.16
10,700.0	7,283.6	7,261.6	7,261.6	68.4	145.2	90.21	3,941.2	54.1	843.2	630.2	213.01
10,800.0	7,283.2	7,261.2	7,261.2	70.2	145.2	90.17	3,941.2	54.1	785.1	570.2	214.86
10,900.0	7,282.7	7,260.7	7,260.7	72.1	145.2	90.13	3,941.2	54.1	736.0	519.3	216.71
11,000.0	7,282.2	7,260.2	7,260.2	73.9	145.2	90.09	3,941.2	54.1	698.0	479.4	218.57
11,100.0	7,281.8	7,259.8	7,259.8	75.8	145.2	90.05	3,941.2	54.1	672.7	452.3	220.42
										Separation Factor	Warning
										4.681	
										4.303	
										3.959	
										3.654	
										3.396	
										3.193	
										3.052	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Existing Wells Sec.30-T1N-R65W - Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1													<b>Offset Site Error:</b>	0.0 ft
<b>Survey Program:</b> 8208-UNKNOWN													<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
11,200.0	7,281.3	7,259.3	7,259.3	77.6	145.2	90.01	3,941.2	54.1	661.7	439.5	222.28	2.977		
11,223.1	7,281.2	7,259.2	7,259.2	78.1	145.2	90.00	3,941.2	54.1	661.3	438.6	222.71	2.970	CC, ES, SF	
11,300.0	7,280.8	7,258.8	7,258.8	79.5	145.2	89.97	3,941.2	54.1	665.8	441.7	224.14	2.970		
11,400.0	7,280.4	7,258.4	7,258.4	81.4	145.2	89.93	3,941.2	54.1	684.6	458.6	226.01	3.029		
11,500.0	7,279.9	7,257.9	7,257.9	83.2	145.2	89.89	3,941.2	54.1	717.0	489.1	227.87	3.146		
11,600.0	7,279.4	7,257.4	7,257.4	85.1	145.1	89.85	3,941.2	54.1	761.2	531.5	229.74	3.313		
11,700.0	7,278.9	7,256.9	7,256.9	87.0	145.1	89.81	3,941.2	54.1	815.4	583.8	231.61	3.521		
11,800.0	7,278.5	7,256.5	7,256.5	88.8	145.1	89.76	3,941.2	54.1	877.6	644.1	233.48	3.759		
11,899.4	7,278.0	7,256.0	7,256.0	90.7	145.1	89.72	3,941.2	54.1	946.0	710.6	235.33	4.020		

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Existing Wells Sec.30-T1N-R65W - Lehl 1 (P&A) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 8026-UNKNOWN													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
7,800.0	7,297.3	7,291.3	7,291.3	21.4	145.8	-91.61		1,449.5	-772.2	941.4	776.5	164.91	5.709	
7,900.0	7,296.8	7,290.8	7,290.8	22.3	145.8	-91.43		1,449.5	-772.2	843.0	677.0	166.01	5.078	
8,000.0	7,296.4	7,290.4	7,290.4	23.4	145.8	-91.26		1,449.5	-772.2	744.9	577.7	167.22	4.455	
8,100.0	7,295.9	7,289.9	7,289.9	24.5	145.8	-91.09		1,449.5	-772.2	647.5	479.0	168.53	3.842	
8,200.0	7,295.4	7,289.4	7,289.4	25.8	145.8	-90.91		1,449.5	-772.2	551.0	381.1	169.92	3.243	
8,300.0	7,295.0	7,289.0	7,289.0	27.2	145.8	-90.74		1,449.5	-772.2	456.0	284.6	171.38	2.661	
8,400.0	7,294.5	7,288.5	7,288.5	28.6	145.8	-90.57		1,449.5	-772.2	363.6	190.7	172.89	2.103	
8,500.0	7,294.0	7,288.0	7,288.0	30.1	145.8	-90.40		1,449.5	-772.2	276.6	102.2	174.45	1.586	
8,600.0	7,293.5	7,287.5	7,287.5	31.6	145.8	-90.22		1,449.5	-772.2	202.1	26.1	176.05	1.148 Level 2	
8,700.0	7,293.1	7,287.1	7,287.1	33.2	145.7	-90.05		1,449.5	-772.2	158.6	-19.0	177.68	0.893 Level 1	
8,728.4	7,292.9	7,286.9	7,286.9	33.7	145.7	-90.00		1,449.5	-772.2	156.1	-22.1	178.15	0.876 Level 1, CC, ES, SF	
8,800.0	7,292.6	7,286.6	7,286.6	34.8	145.7	-89.88		1,449.5	-772.2	171.7	-7.6	179.34	0.957 Level 1	
8,900.0	7,292.1	7,286.1	7,286.1	36.4	145.7	-89.70		1,449.5	-772.2	231.9	50.9	181.02	1.281 Level 3	
9,000.0	7,291.7	7,285.7	7,285.7	38.1	145.7	-89.53		1,449.5	-772.2	313.2	130.5	182.73	1.714	
9,100.0	7,291.2	7,285.2	7,285.2	39.8	145.7	-89.36		1,449.5	-772.2	403.0	218.6	184.45	2.185	
9,200.0	7,290.7	7,284.7	7,284.7	41.5	145.7	-89.18		1,449.5	-772.2	496.7	310.5	186.18	2.668	
9,300.0	7,290.2	7,284.2	7,284.2	43.2	145.7	-89.01		1,449.5	-772.2	592.5	404.6	187.93	3.153	
9,400.0	7,289.8	7,283.8	7,283.8	44.9	145.7	-88.84		1,449.5	-772.2	689.5	499.8	189.69	3.635	
9,500.0	7,289.3	7,283.3	7,283.3	46.7	145.7	-88.67		1,449.5	-772.2	787.2	595.7	191.46	4.112	
9,600.0	7,288.8	7,282.8	7,282.8	48.5	145.7	-88.49		1,449.5	-772.2	885.4	692.2	193.24	4.582	
9,700.0	7,288.4	7,282.4	7,282.4	50.2	145.6	-88.32		1,449.5	-772.2	984.0	789.0	195.02	5.046	

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-94.65	-94.65	-3.6	-44.8	45.0				
100.0	100.0	100.0	100.0	0.1	0.1	-94.65	-94.65	-3.6	-44.8	45.0	44.7	0.22	200.047	
200.0	200.0	200.0	200.0	0.3	0.3	-94.65	-94.65	-3.6	-44.8	45.0	44.3	0.67	66.682 CC, ES	
300.0	300.0	298.4	298.4	0.6	0.5	-94.78	-94.78	-3.9	-46.5	46.7	45.6	1.11	42.099	
400.0	400.0	396.6	396.5	0.8	0.8	-95.14	-95.14	-4.6	-51.5	51.8	50.3	1.55	33.422	
500.0	500.0	494.3	493.8	1.0	1.0	-95.59	-95.59	-5.9	-59.8	60.4	58.3	2.02	29.921	
600.0	600.0	591.4	590.2	1.2	1.3	-96.05	-96.05	-7.5	-71.2	72.3	69.8	2.52	28.731	
700.0	700.0	687.5	685.2	1.5	1.6	-96.45	-96.45	-9.7	-85.8	87.6	84.5	3.05	28.681	
800.0	800.0	784.4	780.5	1.7	2.0	-96.78	-96.78	-12.3	-103.1	105.7	102.0	3.63	29.101	
900.0	900.0	883.0	877.4	1.9	2.4	7.35	7.35	-14.9	-121.2	122.4	118.6	3.82	32.037	
1,000.0	999.8	982.1	974.7	2.1	2.8	7.40	7.40	-17.6	-139.3	135.8	131.5	4.25	31.944	
1,100.0	1,099.5	1,081.6	1,072.5	2.3	3.2	7.62	7.62	-20.3	-157.5	145.7	141.0	4.69	31.048	
1,200.0	1,198.7	1,181.4	1,170.6	2.6	3.6	8.00	8.00	-23.0	-175.7	152.2	147.0	5.15	29.576	
1,300.0	1,297.6	1,281.3	1,268.8	2.8	4.0	8.49	8.49	-25.7	-194.0	156.1	150.5	5.61	27.811	
1,400.0	1,396.5	1,381.2	1,367.0	3.1	4.4	8.98	8.98	-28.4	-212.3	160.0	153.9	6.10	26.235	
1,500.0	1,495.4	1,481.1	1,465.2	3.4	4.8	9.44	9.44	-31.1	-230.5	163.8	157.2	6.59	24.873	
1,600.0	1,594.3	1,581.1	1,563.4	3.8	5.2	9.88	9.88	-33.8	-248.8	167.7	160.6	7.08	23.682	
1,700.0	1,693.2	1,681.0	1,661.6	4.1	5.7	10.30	10.30	-36.5	-267.1	171.5	163.9	7.58	22.634	
1,800.0	1,792.1	1,780.9	1,759.8	4.4	6.1	10.70	10.70	-39.2	-285.3	175.4	167.3	8.08	21.706	
1,900.0	1,891.0	1,880.8	1,858.0	4.8	6.5	11.08	11.08	-41.9	-303.6	179.3	170.7	8.59	20.878	
2,000.0	1,989.8	1,980.7	1,956.2	5.1	6.9	11.45	11.45	-44.6	-321.9	183.2	174.1	9.10	20.136	
2,100.0	2,088.7	2,080.6	2,054.4	5.4	7.3	11.80	11.80	-47.3	-340.1	187.1	177.4	9.61	19.467	
2,200.0	2,187.6	2,180.6	2,152.5	5.8	7.8	12.14	12.14	-50.0	-358.4	191.0	180.8	10.12	18.862	
2,300.0	2,286.5	2,280.5	2,250.7	6.1	8.2	12.47	12.47	-52.7	-376.7	194.9	184.2	10.64	18.312	
2,400.0	2,385.4	2,380.4	2,348.9	6.5	8.6	12.78	12.78	-55.4	-395.0	198.8	187.6	11.16	17.810	
2,500.0	2,484.3	2,480.3	2,447.1	6.8	9.0	13.08	13.08	-58.1	-413.2	202.7	191.0	11.68	17.349	
2,600.0	2,583.2	2,580.2	2,545.3	7.2	9.5	13.37	13.37	-60.8	-431.5	206.6	194.4	12.21	16.926	
2,700.0	2,682.1	2,680.1	2,643.5	7.5	9.9	13.64	13.64	-63.5	-449.8	210.5	197.8	12.73	16.536	
2,800.0	2,781.0	2,780.1	2,741.7	7.9	10.3	13.91	13.91	-66.2	-468.0	214.5	201.2	13.26	16.174	
2,900.0	2,879.9	2,880.0	2,839.9	8.3	10.7	14.17	14.17	-68.9	-486.3	218.4	204.6	13.79	15.839	
3,000.0	2,978.8	2,979.9	2,938.1	8.6	11.1	14.42	14.42	-71.6	-504.6	222.4	208.0	14.32	15.528	
3,100.0	3,077.6	3,079.8	3,036.3	9.0	11.6	14.66	14.66	-74.3	-522.9	226.3	211.4	14.85	15.237	
3,200.0	3,176.5	3,179.7	3,134.5	9.3	12.0	14.89	14.89	-77.0	-541.1	230.3	214.9	15.39	14.965	
3,300.0	3,275.4	3,279.7	3,232.7	9.7	12.4	15.11	15.11	-79.7	-559.4	234.2	218.3	15.92	14.711	
3,400.0	3,374.3	3,379.6	3,330.9	10.0	12.8	15.33	15.33	-82.4	-577.7	238.2	221.7	16.46	14.472	
3,500.0	3,473.2	3,479.5	3,429.1	10.4	13.3	15.54	15.54	-85.1	-595.9	242.1	225.1	16.99	14.247	
3,600.0	3,572.1	3,579.4	3,527.3	10.8	13.7	15.74	15.74	-87.8	-614.2	246.1	228.6	17.53	14.036	
3,700.0	3,671.0	3,679.3	3,625.5	11.1	14.1	15.94	15.94	-90.5	-632.5	250.1	232.0	18.07	13.836	
3,800.0	3,769.9	3,779.2	3,723.7	11.5	14.5	16.13	16.13	-93.2	-650.7	254.0	235.4	18.61	13.648	
3,900.0	3,868.8	3,879.2	3,821.9	11.9	14.9	16.31	16.31	-95.9	-669.0	258.0	238.8	19.15	13.469	
4,000.0	3,967.7	3,979.1	3,920.1	12.2	15.4	16.49	16.49	-98.6	-687.3	262.0	242.3	19.70	13.300	
4,100.0	4,066.5	4,079.0	4,018.3	12.6	15.8	16.66	16.66	-101.3	-705.6	265.9	245.7	20.24	13.139	
4,200.0	4,165.4	4,178.9	4,116.5	12.9	16.2	16.83	16.83	-104.0	-723.8	269.9	249.1	20.78	12.987	
4,300.0	4,264.3	4,278.8	4,214.7	13.3	16.6	16.99	16.99	-106.7	-742.1	273.9	252.6	21.33	12.842	
4,400.0	4,363.2	4,378.7	4,312.9	13.7	17.1	17.15	17.15	-109.4	-760.4	277.9	256.0	21.88	12.703	
4,500.0	4,462.1	4,478.7	4,411.1	14.0	17.5	17.31	17.31	-112.1	-778.6	281.9	259.5	22.42	12.571	
4,600.0	4,561.0	4,578.6	4,509.2	14.4	17.9	17.46	17.46	-114.8	-796.9	285.9	262.9	22.97	12.445	
4,700.0	4,659.9	4,678.5	4,607.4	14.7	18.3	17.60	17.60	-117.5	-815.2	289.9	266.3	23.52	12.325	
4,800.0	4,758.8	4,778.4	4,705.6	15.1	18.8	17.74	17.74	-120.2	-833.4	293.8	269.8	24.07	12.210	
4,900.0	4,857.7	4,878.3	4,803.8	15.5	19.2	17.88	17.88	-122.9	-851.7	297.8	273.2	24.62	12.100	
5,000.0	4,956.6	4,978.3	4,902.0	15.8	19.6	18.02	18.02	-125.6	-870.0	301.8	276.7	25.17	11.994	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,100.0	5,055.5	5,078.2	5,000.2	16.2	20.0	18.15	-128.3	-888.3	305.8	280.1	25.72	11.892		
5,200.0	5,154.5	5,178.0	5,098.4	16.5	20.4	18.24	-131.0	-906.5	310.9	284.7	26.22	11.856		
5,300.0	5,254.0	5,277.7	5,196.3	16.7	20.9	18.15	-133.7	-924.7	319.2	292.6	26.64	11.984		
5,400.0	5,353.7	5,377.0	5,293.9	16.9	21.3	17.91	-136.4	-942.9	330.9	303.9	27.00	12.255		
5,500.0	5,453.7	5,475.8	5,391.0	17.1	21.7	17.53	-139.1	-961.0	345.8	318.5	27.30	12.666		
5,600.0	5,553.7	5,574.2	5,487.7	17.2	22.1	-87.30	-141.7	-979.0	363.6	336.0	27.60	13.173		
5,700.0	5,653.7	5,672.4	5,584.3	17.4	22.5	-87.83	-144.4	-996.9	381.8	353.8	27.97	13.646		
5,800.0	5,753.7	5,770.7	5,680.8	17.5	23.0	-88.32	-147.1	-1,014.9	399.9	371.6	28.36	14.104		
5,900.0	5,853.7	5,869.0	5,777.4	17.7	23.4	-88.76	-149.7	-1,032.9	418.2	389.4	28.75	14.546		
6,000.0	5,953.7	5,967.3	5,874.0	17.8	23.8	-89.17	-152.4	-1,050.8	436.4	407.3	29.14	14.974		
6,100.0	6,053.7	6,065.6	5,970.6	18.0	24.2	-89.54	-155.0	-1,068.8	454.7	425.1	29.55	15.388		
6,200.0	6,153.7	6,183.0	6,086.4	18.1	24.6	-89.91	-157.9	-1,087.9	471.0	441.0	29.94	15.731		
6,300.0	6,253.7	6,301.8	6,204.3	18.3	24.8	-90.17	-160.0	-1,102.5	483.2	452.9	30.32	15.935		
6,400.0	6,353.7	6,421.6	6,323.7	18.4	25.1	-90.33	-161.4	-1,112.2	491.4	460.7	30.70	16.003		
6,500.0	6,453.7	6,542.1	6,444.1	18.6	25.2	-90.41	-162.2	-1,117.1	495.4	464.3	31.09	15.935		
6,600.0	6,553.7	6,651.7	6,553.7	18.7	25.4	-90.42	-162.2	-1,117.6	495.8	464.4	31.46	15.760		
6,700.0	6,653.7	6,751.7	6,653.7	18.9	25.5	-90.42	-162.2	-1,117.6	495.8	464.0	31.82	15.581		
6,800.0	6,753.7	6,851.7	6,753.7	19.0	25.6	-90.42	-162.2	-1,117.6	495.8	463.6	32.19	15.405		
6,816.7	6,770.4	6,868.4	6,770.4	19.1	25.6	-90.65	-162.2	-1,117.6	495.8	463.6	32.26	15.370		
6,900.0	6,853.4	6,951.4	6,853.4	19.2	25.7	-91.26	-162.2	-1,117.6	495.9	463.4	32.48	15.268		
7,000.0	6,950.3	7,048.3	6,950.3	19.3	25.8	-93.81	-162.2	-1,117.6	497.0	464.5	32.52	15.285		
7,100.0	7,040.9	7,149.5	7,051.2	19.4	26.0	-97.71	-156.9	-1,117.6	501.1	468.6	32.44	15.444		
7,200.0	7,121.7	7,262.3	7,160.3	19.4	26.0	-101.65	-128.9	-1,117.5	507.7	475.3	32.36	15.687		
7,300.0	7,189.9	7,386.9	7,270.6	19.5	26.1	-105.32	-71.6	-1,117.2	515.9	483.7	32.26	15.994		
7,400.0	7,243.0	7,524.7	7,372.9	19.6	26.1	-108.49	20.1	-1,116.9	524.3	492.1	32.16	16.302		
7,500.0	7,278.9	7,675.2	7,452.9	19.8	26.3	-110.81	147.0	-1,116.3	530.9	498.7	32.23	16.472		
7,600.0	7,296.4	7,834.8	7,494.6	20.1	26.5	-111.91	300.3	-1,115.7	534.1	501.4	32.78	16.295		
7,700.0	7,297.8	7,957.9	7,497.6	20.7	26.9	-111.97	423.3	-1,115.2	534.2	500.2	34.01	15.707		
7,800.0	7,297.3	8,057.9	7,497.3	21.4	27.4	-111.98	523.3	-1,114.8	534.2	498.6	35.66	14.981		
7,900.0	7,296.8	8,157.9	7,496.9	22.3	28.0	-112.00	623.3	-1,114.4	534.2	496.6	37.58	14.216		
8,000.0	7,296.4	8,257.9	7,496.6	23.4	28.8	-112.01	723.3	-1,113.9	534.2	494.5	39.73	13.446		
8,100.0	7,295.9	8,357.9	7,496.2	24.5	29.7	-112.03	823.3	-1,113.5	534.2	492.1	42.07	12.696		
8,200.0	7,295.4	8,457.9	7,495.9	25.8	30.7	-112.04	923.3	-1,113.1	534.2	489.6	44.59	11.981		
8,300.0	7,295.0	8,557.9	7,495.5	27.2	31.8	-112.06	1,023.3	-1,112.7	534.2	486.9	47.24	11.308		
8,400.0	7,294.5	8,657.9	7,495.2	28.6	32.9	-112.07	1,123.3	-1,112.3	534.2	484.2	50.00	10.683		
8,500.0	7,294.0	8,757.9	7,494.8	30.1	34.2	-112.08	1,223.3	-1,111.9	534.1	481.3	52.87	10.103		
8,600.0	7,293.5	8,857.9	7,494.5	31.6	35.5	-112.10	1,323.3	-1,111.5	534.1	478.3	55.82	9.570		
8,700.0	7,293.1	8,957.9	7,494.1	33.2	36.9	-112.11	1,423.3	-1,111.0	534.1	475.3	58.83	9.079		
8,800.0	7,292.6	9,057.9	7,493.8	34.8	38.3	-112.13	1,523.3	-1,110.6	534.1	472.2	61.91	8.627		
8,900.0	7,292.1	9,157.9	7,493.4	36.4	39.8	-112.14	1,623.3	-1,110.2	534.1	469.1	65.04	8.212		
9,000.0	7,291.7	9,257.9	7,493.1	38.1	41.3	-112.16	1,723.3	-1,109.8	534.1	465.9	68.21	7.830		
9,100.0	7,291.2	9,357.9	7,492.7	39.8	42.9	-112.17	1,823.3	-1,109.4	534.1	462.7	71.43	7.477		
9,200.0	7,290.7	9,457.9	7,492.4	41.5	44.5	-112.19	1,923.3	-1,109.0	534.1	459.4	74.67	7.152		
9,300.0	7,290.2	9,557.9	7,492.0	43.2	46.1	-112.20	2,023.3	-1,108.5	534.1	456.1	77.95	6.852		
9,400.0	7,289.8	9,657.9	7,491.7	44.9	47.7	-112.22	2,123.3	-1,108.1	534.0	452.8	81.24	6.573		
9,500.0	7,289.3	9,757.9	7,491.4	46.7	49.4	-112.23	2,223.3	-1,107.7	534.0	449.5	84.57	6.315		
9,600.0	7,288.8	9,857.9	7,491.0	48.5	51.0	-112.25	2,323.3	-1,107.3	534.0	446.1	87.91	6.075		
9,700.0	7,288.4	9,957.9	7,490.7	50.2	52.7	-112.26	2,423.3	-1,106.9	534.0	442.8	91.27	5.851		
9,800.0	7,287.9	10,057.9	7,490.3	52.0	54.4	-112.27	2,523.3	-1,106.5	534.0	439.4	94.64	5.642		
9,900.0	7,287.4	10,157.9	7,490.0	53.8	56.2	-112.29	2,623.3	-1,106.1	534.0	436.0	98.03	5.447		
10,000.0	7,286.9	10,257.9	7,489.6	55.6	57.9	-112.30	2,723.3	-1,105.6	534.0	432.6	101.43	5.265		

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8													<b>Offset Site Error:</b>	0.0 ft
<b>Survey Program:</b> 0-MWD													<b>Offset Well Error:</b>	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,100.0	7,286.5	10,357.9	7,489.3	57.4	59.6	-112.32	2,823.3	-1,105.2	534.0	429.1	104.84	5.093		
10,200.0	7,286.0	10,457.9	7,488.9	59.2	61.4	-112.33	2,923.3	-1,104.8	534.0	425.7	108.26	4.932		
10,300.0	7,285.5	10,557.9	7,488.6	61.1	63.1	-112.35	3,023.3	-1,104.4	534.0	422.3	111.69	4.781		
10,400.0	7,285.1	10,657.9	7,488.2	62.9	64.9	-112.36	3,123.3	-1,104.0	533.9	418.8	115.13	4.638		
10,500.0	7,284.6	10,757.9	7,487.9	64.7	66.7	-112.38	3,223.3	-1,103.6	533.9	415.4	118.58	4.503		
10,600.0	7,284.1	10,857.9	7,487.5	66.6	68.5	-112.39	3,323.3	-1,103.2	533.9	411.9	122.03	4.375		
10,700.0	7,283.6	10,957.9	7,487.2	68.4	70.3	-112.41	3,423.3	-1,102.7	533.9	408.4	125.49	4.255		
10,800.0	7,283.2	11,057.9	7,486.8	70.2	72.1	-112.42	3,523.3	-1,102.3	533.9	404.9	128.96	4.140		
10,900.0	7,282.7	11,157.9	7,486.5	72.1	73.9	-112.44	3,623.3	-1,101.9	533.9	401.5	132.43	4.032		
11,000.0	7,282.2	11,257.9	7,486.1	73.9	75.7	-112.45	3,723.3	-1,101.5	533.9	398.0	135.90	3.929		
11,100.0	7,281.8	11,357.9	7,485.8	75.8	77.5	-112.47	3,823.3	-1,101.1	533.9	394.5	139.38	3.830		
11,200.0	7,281.3	11,457.9	7,485.4	77.6	79.3	-112.48	3,923.3	-1,100.7	533.9	391.0	142.86	3.737		
11,300.0	7,280.8	11,557.9	7,485.1	79.5	81.1	-112.49	4,023.3	-1,100.3	533.9	387.5	146.35	3.648		
11,400.0	7,280.4	11,657.9	7,484.7	81.4	83.0	-112.51	4,123.3	-1,099.8	533.8	384.0	149.84	3.563		
11,500.0	7,279.9	11,757.9	7,484.4	83.2	84.8	-112.52	4,223.3	-1,099.4	533.8	380.5	153.33	3.482		
11,600.0	7,279.4	11,857.9	7,484.0	85.1	86.6	-112.54	4,323.3	-1,099.0	533.8	377.0	156.82	3.404		
11,700.0	7,278.9	11,957.9	7,483.7	87.0	88.5	-112.55	4,423.3	-1,098.6	533.8	373.5	160.32	3.330		
11,800.0	7,278.5	12,057.9	7,483.3	88.8	90.3	-112.57	4,523.2	-1,098.2	533.8	370.0	163.82	3.258		
11,869.5	7,278.1	12,127.3	7,483.1	90.2	91.6	-112.58	4,592.7	-1,097.9	533.8	367.5	166.25	3.211		
11,899.4	7,278.0	12,150.9	7,483.0	90.7	92.1	-112.58	4,616.3	-1,097.8	533.8	366.6	167.19	3.193 SF		

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Reference (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-96.74	-96.74	-3.6	-30.8	31.0				
100.0	100.0	100.0	100.0	0.1	0.1	-96.74	-96.74	-3.6	-30.8	31.0	30.8	0.22	138.035	
200.0	200.0	200.0	200.0	0.3	0.3	-96.74	-96.74	-3.6	-30.8	31.0	30.4	0.67	46.012	
300.0	300.0	300.0	300.0	0.6	0.6	-96.74	-96.74	-3.6	-30.8	31.0	29.9	1.12	27.607	
400.0	400.0	400.0	400.0	0.8	0.8	-96.74	-96.74	-3.6	-30.8	31.0	29.5	1.57	19.719 CC, ES	
500.0	500.0	498.9	498.9	1.0	1.0	-96.89	-96.89	-3.9	-32.5	32.7	30.7	2.01	16.320	
600.0	600.0	597.5	597.4	1.2	1.2	-97.25	-97.25	-4.8	-37.5	37.9	35.5	2.44	15.543	
700.0	700.0	695.7	695.2	1.5	1.4	-97.67	-97.67	-6.2	-45.9	46.5	43.6	2.89	16.073	
800.0	800.0	793.2	792.0	1.7	1.7	-98.04	-98.04	-8.1	-57.4	58.5	55.1	3.38	17.325	
900.0	900.0	890.1	887.7	1.9	2.0	6.07	6.07	-10.6	-72.1	72.1	68.4	3.75	19.220	
1,000.0	999.8	988.4	984.5	2.1	2.3	6.14	6.14	-13.5	-89.4	84.9	80.8	4.17	20.349	
1,100.0	1,099.5	1,088.0	1,082.4	2.3	2.7	6.42	6.42	-16.5	-107.2	94.4	89.8	4.60	20.530	
1,200.0	1,198.7	1,187.8	1,180.5	2.6	3.1	6.88	6.88	-19.5	-125.1	100.5	95.5	5.04	19.947	
1,300.0	1,297.6	1,287.7	1,278.8	2.8	3.5	7.48	7.48	-22.5	-142.9	104.0	98.5	5.50	18.919	
1,400.0	1,396.5	1,387.7	1,377.1	3.1	3.9	8.05	8.05	-25.5	-160.8	107.4	101.5	5.97	17.990	
1,500.0	1,495.4	1,487.6	1,475.4	3.4	4.3	8.58	8.58	-28.5	-178.6	110.9	104.4	6.45	17.182	
1,600.0	1,594.3	1,587.5	1,573.6	3.8	4.7	9.09	9.09	-31.5	-196.4	114.3	107.4	6.94	16.470	
1,700.0	1,693.2	1,687.5	1,671.9	4.1	5.1	9.56	9.56	-34.5	-214.3	117.7	110.3	7.43	15.841	
1,800.0	1,792.1	1,787.4	1,770.2	4.4	5.5	10.01	10.01	-37.5	-232.1	121.2	113.3	7.93	15.283	
1,900.0	1,891.0	1,887.3	1,868.5	4.8	5.9	10.43	10.43	-40.5	-250.0	124.6	116.2	8.43	14.784	
2,000.0	1,989.8	1,987.3	1,966.8	5.1	6.3	10.83	10.83	-43.5	-267.8	128.1	119.2	8.94	14.337	
2,100.0	2,088.7	2,087.2	2,065.1	5.4	6.7	11.21	11.21	-46.5	-285.7	131.6	122.1	9.44	13.933	
2,200.0	2,187.6	2,187.1	2,163.3	5.8	7.1	11.57	11.57	-49.5	-303.5	135.1	125.1	9.95	13.566	
2,300.0	2,286.5	2,287.1	2,261.6	6.1	7.6	11.91	11.91	-52.5	-321.4	138.5	128.1	10.47	13.233	
2,400.0	2,385.4	2,387.0	2,359.9	6.5	8.0	12.23	12.23	-55.5	-339.2	142.0	131.0	10.98	12.928	
2,500.0	2,484.3	2,487.0	2,458.2	6.8	8.4	12.54	12.54	-58.5	-357.1	145.5	134.0	11.50	12.649	
2,600.0	2,583.2	2,586.9	2,556.5	7.2	8.8	12.84	12.84	-61.5	-374.9	149.0	137.0	12.02	12.392	
2,700.0	2,682.1	2,686.8	2,654.8	7.5	9.2	13.12	13.12	-64.5	-392.8	152.5	139.9	12.55	12.154	
2,800.0	2,781.0	2,786.8	2,753.0	7.9	9.6	13.39	13.39	-67.5	-410.6	156.0	142.9	13.07	11.935	
2,900.0	2,879.9	2,886.7	2,851.3	8.3	10.0	13.64	13.64	-70.5	-428.5	159.5	145.9	13.60	11.731	
3,000.0	2,978.8	2,986.6	2,949.6	8.6	10.5	13.89	13.89	-73.5	-446.3	163.0	148.9	14.12	11.541	
3,100.0	3,077.6	3,086.6	3,047.9	9.0	10.9	14.12	14.12	-76.5	-464.2	166.5	151.8	14.65	11.364	
3,200.0	3,176.5	3,186.5	3,146.2	9.3	11.3	14.35	14.35	-79.5	-482.0	170.0	154.8	15.18	11.198	
3,300.0	3,275.4	3,286.4	3,244.5	9.7	11.7	14.56	14.56	-82.5	-499.9	173.5	157.8	15.71	11.043	
3,400.0	3,374.3	3,386.4	3,342.7	10.0	12.1	14.77	14.77	-85.5	-517.7	177.0	160.8	16.25	10.898	
3,500.0	3,473.2	3,486.3	3,441.0	10.4	12.5	14.97	14.97	-88.5	-535.6	180.6	163.8	16.78	10.761	
3,600.0	3,572.1	3,586.3	3,539.3	10.8	12.9	15.16	15.16	-91.5	-553.4	184.1	166.8	17.31	10.632	
3,700.0	3,671.0	3,686.2	3,637.6	11.1	13.4	15.35	15.35	-94.5	-571.3	187.6	169.7	17.85	10.510	
3,800.0	3,769.9	3,786.1	3,735.9	11.5	13.8	15.53	15.53	-97.5	-589.1	191.1	172.7	18.39	10.395	
3,900.0	3,868.8	3,886.1	3,834.2	11.9	14.2	15.70	15.70	-100.5	-607.0	194.6	175.7	18.92	10.286	
4,000.0	3,967.7	3,986.0	3,932.4	12.2	14.6	15.86	15.86	-103.5	-624.8	198.2	178.7	19.46	10.183	
4,100.0	4,066.5	4,085.9	4,030.7	12.6	15.0	16.02	16.02	-106.5	-642.7	201.7	181.7	20.00	10.085	
4,200.0	4,165.4	4,185.9	4,129.0	12.9	15.4	16.18	16.18	-109.5	-660.5	205.2	184.7	20.54	9.991	
4,300.0	4,264.3	4,285.8	4,227.3	13.3	15.9	16.33	16.33	-112.5	-678.4	208.8	187.7	21.08	9.903	
4,400.0	4,363.2	4,385.7	4,325.6	13.7	16.3	16.47	16.47	-115.5	-696.2	212.3	190.7	21.62	9.818	
4,500.0	4,462.1	4,485.7	4,423.9	14.0	16.7	16.61	16.61	-118.5	-714.1	215.8	193.7	22.16	9.738	
4,600.0	4,561.0	4,585.6	4,522.1	14.4	17.1	16.74	16.74	-121.5	-731.9	219.4	196.7	22.71	9.661	
4,700.0	4,659.9	4,685.6	4,620.4	14.7	17.5	16.87	16.87	-124.5	-749.8	222.9	199.6	23.25	9.587	
4,800.0	4,758.8	4,785.5	4,718.7	15.1	17.9	17.00	17.00	-127.5	-767.6	226.4	202.6	23.79	9.517	
4,900.0	4,857.7	4,885.4	4,817.0	15.5	18.4	17.12	17.12	-130.5	-785.5	230.0	205.6	24.34	9.449	
5,000.0	4,956.6	4,985.4	4,915.3	15.8	18.8	17.24	17.24	-133.5	-803.3	233.5	208.6	24.88	9.385	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	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
5,100.0	5,055.5	5,085.3	5,013.6	16.2	19.2	17.36	-136.5	-821.2	237.1	211.6	25.43	9.323	
5,200.0	5,154.5	5,185.2	5,111.8	16.5	19.6	17.41	-139.5	-839.0	241.7	215.8	25.93	9.320	
5,300.0	5,254.0	5,284.9	5,209.8	16.7	20.0	17.25	-142.5	-856.8	249.6	223.2	26.34	9.475	
5,400.0	5,353.7	5,384.2	5,307.5	16.9	20.4	16.90	-145.5	-874.6	260.8	234.1	26.69	9.771	
5,500.0	5,453.7	5,483.1	5,404.8	17.1	20.8	16.39	-148.5	-892.2	275.3	248.4	26.98	10.204	
5,600.0	5,553.7	5,583.8	5,503.9	17.2	21.3	-88.58	-151.5	-910.1	292.7	265.4	27.27	10.731	
5,700.0	5,653.7	5,694.0	5,612.7	17.4	21.6	-89.19	-154.3	-926.9	307.8	280.2	27.61	11.150	
5,800.0	5,753.7	5,805.3	5,723.3	17.5	21.8	-89.61	-156.4	-939.6	319.3	291.3	27.95	11.421	
5,900.0	5,853.7	5,917.5	5,835.1	17.7	22.0	-89.87	-157.9	-948.1	326.9	298.5	28.31	11.547	
6,000.0	5,953.7	6,030.2	5,947.7	17.8	22.2	-89.99	-158.6	-952.3	330.6	301.9	28.67	11.532	
6,100.0	6,053.7	6,136.1	6,053.7	18.0	22.3	-90.01	-158.6	-952.8	331.0	302.0	29.03	11.401	
6,200.0	6,153.7	6,236.1	6,153.7	18.1	22.4	-90.01	-158.6	-952.8	331.0	301.6	29.39	11.262	
6,300.0	6,253.7	6,336.1	6,253.7	18.3	22.6	-90.01	-158.6	-952.8	331.0	301.3	29.75	11.125	
6,400.0	6,353.7	6,436.1	6,353.7	18.4	22.7	-90.01	-158.6	-952.8	331.0	300.9	30.12	10.990	
6,500.0	6,453.7	6,536.1	6,453.7	18.6	22.8	-90.01	-158.6	-952.8	331.0	300.5	30.49	10.858	
6,600.0	6,553.7	6,636.1	6,553.7	18.7	22.9	-90.01	-158.6	-952.8	331.0	300.2	30.85	10.728	
6,660.5	6,614.2	6,696.7	6,614.2	18.8	23.0	-89.78	-157.3	-952.8	331.0	299.9	31.10	10.645	
6,700.0	6,653.7	6,735.8	6,653.1	18.9	23.1	-89.05	-153.1	-952.8	331.0	299.7	31.30	10.577	
6,800.0	6,753.7	6,830.3	6,744.7	19.0	23.1	-85.22	-131.0	-952.7	332.2	300.2	32.00	10.380	
6,900.0	6,853.4	6,916.6	6,823.8	19.2	23.2	-79.89	-96.6	-952.5	336.9	303.9	32.99	10.212	
7,000.0	6,950.3	7,000.0	6,893.8	19.3	23.2	-74.64	-51.3	-952.4	344.3	310.6	33.75	10.201	
7,100.0	7,040.9	7,077.8	6,951.9	19.4	23.3	-70.16	0.4	-952.1	353.3	319.3	34.02	10.385	
7,200.0	7,121.7	7,150.0	6,998.2	19.4	23.3	-66.51	55.6	-951.9	362.7	329.0	33.78	10.739	
7,300.0	7,189.9	7,229.6	7,040.0	19.5	23.4	-63.33	123.3	-951.6	371.4	338.2	33.22	11.181	
7,400.0	7,243.0	7,300.0	7,068.0	19.6	23.5	-61.15	187.8	-951.3	378.6	345.9	32.70	11.578	
7,500.0	7,278.9	7,376.3	7,088.2	19.8	23.6	-59.62	261.4	-951.0	383.6	350.9	32.75	11.716	
7,600.0	7,296.4	7,450.0	7,097.3	20.1	23.8	-58.90	334.4	-950.7	386.2	352.5	33.70	11.459	
7,700.0	7,297.8	7,536.6	7,097.8	20.7	24.2	-58.83	421.0	-950.4	386.4	351.1	35.33	10.936	
7,800.0	7,297.3	7,636.6	7,097.3	21.4	24.8	-58.82	521.0	-949.9	386.3	349.3	37.09	10.417	
7,900.0	7,296.8	7,736.6	7,096.8	22.3	25.5	-58.81	621.0	-949.5	386.3	347.2	39.05	9.891	
8,000.0	7,296.4	7,836.6	7,096.4	23.4	26.3	-58.81	721.0	-949.1	386.2	345.0	41.20	9.375	
8,100.0	7,295.9	7,936.6	7,095.9	24.5	27.3	-58.80	821.0	-948.7	386.2	342.7	43.50	8.878	
8,200.0	7,295.4	8,036.6	7,095.4	25.8	28.4	-58.80	921.0	-948.2	386.1	340.2	45.93	8.407	
8,300.0	7,295.0	8,136.6	7,094.9	27.2	29.6	-58.79	1,021.0	-947.8	386.0	337.6	48.47	7.965	
8,400.0	7,294.5	8,236.6	7,094.5	28.6	30.9	-58.79	1,121.0	-947.4	386.0	334.9	51.10	7.553	
8,500.0	7,294.0	8,336.6	7,094.0	30.1	32.3	-58.78	1,221.0	-947.0	385.9	332.1	53.82	7.170	
8,600.0	7,293.5	8,436.6	7,093.5	31.6	33.7	-58.78	1,321.0	-946.5	385.9	329.3	56.61	6.817	
8,700.0	7,293.1	8,536.6	7,093.1	33.2	35.2	-58.77	1,421.0	-946.1	385.8	326.3	59.45	6.489	
8,800.0	7,292.6	8,636.6	7,092.6	34.8	36.7	-58.77	1,521.0	-945.7	385.7	323.4	62.34	6.187	
8,900.0	7,292.1	8,736.6	7,092.1	36.4	38.2	-58.76	1,621.0	-945.3	385.7	320.4	65.28	5.908	
9,000.0	7,291.7	8,836.6	7,091.6	38.1	39.8	-58.75	1,721.0	-944.8	385.6	317.4	68.26	5.649	
9,100.0	7,291.2	8,936.6	7,091.2	39.8	41.4	-58.75	1,821.0	-944.4	385.6	314.3	71.27	5.410	
9,200.0	7,290.7	9,036.6	7,090.7	41.5	43.0	-58.74	1,921.0	-944.0	385.5	311.2	74.31	5.188	
9,300.0	7,290.2	9,136.6	7,090.2	43.2	44.7	-58.74	2,021.0	-943.6	385.4	308.1	77.38	4.981	
9,400.0	7,289.8	9,236.6	7,089.8	44.9	46.4	-58.73	2,121.0	-943.1	385.4	304.9	80.47	4.789	
9,500.0	7,289.3	9,336.6	7,089.3	46.7	48.1	-58.73	2,221.0	-942.7	385.3	301.7	83.57	4.610	
9,600.0	7,288.8	9,436.6	7,088.8	48.5	49.8	-58.72	2,321.0	-942.3	385.3	298.6	86.70	4.443	
9,700.0	7,288.4	9,536.6	7,088.3	50.2	51.5	-58.72	2,421.0	-941.9	385.2	295.4	89.84	4.287	
9,800.0	7,287.9	9,636.6	7,087.9	52.0	53.3	-58.71	2,521.0	-941.4	385.1	292.1	93.00	4.141	
9,900.0	7,287.4	9,736.6	7,087.4	53.8	55.0	-58.71	2,621.0	-941.0	385.1	288.9	96.17	4.004	
10,000.0	7,286.9	9,836.6	7,086.9	55.6	56.8	-58.70	2,721.0	-940.6	385.0	285.7	99.36	3.875	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.0	7,286.5	9,936.6	7,086.5	57.4	58.6	-58.69	2,821.0	-940.2	385.0	282.4	102.55	3.754	
10,200.0	7,286.0	10,036.6	7,086.0	59.2	60.3	-58.69	2,921.0	-939.8	384.9	279.1	105.75	3.640	
10,300.0	7,285.5	10,136.6	7,085.5	61.1	62.1	-58.68	3,021.0	-939.3	384.8	275.9	108.96	3.532	
10,400.0	7,285.1	10,236.6	7,085.0	62.9	63.9	-58.68	3,121.0	-938.9	384.8	272.6	112.18	3.430	
10,500.0	7,284.6	10,336.6	7,084.6	64.7	65.7	-58.67	3,221.0	-938.5	384.7	269.3	115.41	3.334	
10,600.0	7,284.1	10,436.6	7,084.1	66.6	67.5	-58.67	3,321.0	-938.1	384.7	266.0	118.64	3.242	
10,700.0	7,283.6	10,536.6	7,083.6	68.4	69.4	-58.66	3,421.0	-937.6	384.6	262.7	121.88	3.155	
10,800.0	7,283.2	10,636.6	7,083.2	70.2	71.2	-58.66	3,521.0	-937.2	384.5	259.4	125.13	3.073	
10,900.0	7,282.7	10,736.6	7,082.7	72.1	73.0	-58.65	3,621.0	-936.8	384.5	256.1	128.38	2.995	
11,000.0	7,282.2	10,836.6	7,082.2	73.9	74.8	-58.65	3,721.0	-936.4	384.4	252.8	131.63	2.920	
11,100.0	7,281.8	10,936.6	7,081.7	75.8	76.7	-58.64	3,821.0	-935.9	384.4	249.5	134.89	2.849	
11,200.0	7,281.3	11,036.6	7,081.3	77.6	78.5	-58.63	3,920.9	-935.5	384.3	246.1	138.15	2.782	
11,300.0	7,280.8	11,136.6	7,080.8	79.5	80.4	-58.63	4,020.9	-935.1	384.2	242.8	141.42	2.717	
11,400.0	7,280.4	11,236.6	7,080.3	81.4	82.2	-58.62	4,120.9	-934.7	384.2	239.5	144.69	2.655	
11,500.0	7,279.9	11,336.6	7,079.9	83.2	84.0	-58.62	4,220.9	-934.2	384.1	236.1	147.96	2.596	
11,600.0	7,279.4	11,436.6	7,079.4	85.1	85.9	-58.61	4,320.9	-933.8	384.1	232.8	151.24	2.539	
11,700.0	7,278.9	11,536.6	7,078.9	87.0	87.7	-58.61	4,420.9	-933.4	384.0	229.5	154.52	2.485	
11,800.0	7,278.5	11,636.6	7,078.4	88.8	89.6	-58.60	4,520.9	-933.0	383.9	226.1	157.80	2.433	
11,872.7	7,278.1	11,709.4	7,078.1	90.2	91.0	-58.60	4,593.7	-932.7	383.9	223.7	160.19	2.396	
11,899.4	7,278.0	11,732.0	7,078.0	90.7	91.4	-58.60	4,616.3	-932.6	383.9	222.9	161.00	2.384 SF	



<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-104.58	-104.58	-3.6	-14.0	14.5	14.5	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	-104.58	-104.58	-3.6	-14.0	14.5	14.2	0.22	64.383	
200.0	200.0	200.0	200.0	0.3	0.3	-104.58	-104.58	-3.6	-14.0	14.5	13.8	0.67	21.461	
300.0	300.0	300.0	300.0	0.6	0.6	-104.58	-104.58	-3.6	-14.0	14.5	13.3	1.12	12.877	
400.0	400.0	400.0	400.0	0.8	0.8	-104.58	-104.58	-3.6	-14.0	14.5	12.9	1.57	9.198	
500.0	500.0	500.0	500.0	1.0	1.0	-104.58	-104.58	-3.6	-14.0	14.5	12.4	2.02	7.154	
600.0	600.0	600.0	600.0	1.2	1.2	-104.58	-104.58	-3.6	-14.0	14.5	12.0	2.47	5.853 CC	
700.0	700.0	699.5	699.4	1.5	1.4	-104.32	-104.32	-4.0	-15.7	16.2	13.3	2.91	5.577	
800.0	800.0	798.7	798.5	1.7	1.6	-103.78	-103.78	-5.1	-20.7	21.4	18.1	3.33	6.420	
900.0	900.0	897.6	897.0	1.9	1.9	1.07	1.07	-6.9	-29.1	28.3	24.6	3.74	7.564	
1,000.0	999.8	996.2	995.0	2.1	2.1	1.61	1.61	-9.4	-40.8	35.2	31.0	4.15	8.487	
1,100.0	1,099.5	1,095.7	1,093.4	2.3	2.4	2.16	2.16	-12.4	-54.9	41.1	36.5	4.56	9.015	
1,200.0	1,198.7	1,195.7	1,192.3	2.6	2.7	2.78	2.78	-15.5	-69.3	43.6	38.7	4.98	8.768	
1,300.0	1,297.6	1,295.7	1,291.2	2.8	3.0	3.52	3.52	-18.6	-83.7	43.6	38.2	5.42	8.053	
1,400.0	1,396.5	1,395.7	1,390.1	3.1	3.4	4.28	4.28	-21.7	-98.0	43.5	37.6	5.87	7.407	
1,500.0	1,495.4	1,495.7	1,489.0	3.4	3.7	5.04	5.04	-24.7	-112.4	43.4	37.0	6.33	6.848	
1,600.0	1,594.3	1,595.7	1,587.9	3.8	4.0	5.81	5.81	-27.8	-126.8	43.3	36.5	6.80	6.359	
1,700.0	1,693.2	1,695.7	1,686.8	4.1	4.4	6.58	6.58	-30.9	-141.2	43.2	35.9	7.28	5.929	
1,800.0	1,792.1	1,795.7	1,785.8	4.4	4.7	7.36	7.36	-34.0	-155.5	43.1	35.3	7.76	5.549	
1,900.0	1,891.0	1,895.7	1,884.7	4.8	5.1	8.14	8.14	-37.1	-169.9	43.0	34.7	8.24	5.211	
2,000.0	1,989.8	1,995.7	1,983.6	5.1	5.4	8.92	8.92	-40.1	-184.3	42.9	34.1	8.74	4.909	
2,100.0	2,088.7	2,095.7	2,082.5	5.4	5.8	9.70	9.70	-43.2	-198.7	42.8	33.6	9.23	4.637	
2,200.0	2,187.6	2,195.7	2,181.4	5.8	6.1	10.49	10.49	-46.3	-213.0	42.7	33.0	9.73	4.391	
2,300.0	2,286.5	2,295.7	2,280.3	6.1	6.5	11.28	11.28	-49.4	-227.4	42.7	32.4	10.24	4.168	
2,400.0	2,385.4	2,395.7	2,379.2	6.5	6.8	12.07	12.07	-52.5	-241.8	42.6	31.9	10.75	3.965	
2,500.0	2,484.3	2,495.7	2,478.1	6.8	7.2	12.87	12.87	-55.5	-256.1	42.6	31.3	11.27	3.780	
2,600.0	2,583.2	2,595.7	2,577.1	7.2	7.5	13.66	13.66	-58.6	-270.5	42.6	30.8	11.79	3.609	
2,700.0	2,682.1	2,695.7	2,676.0	7.5	7.9	14.46	14.46	-61.7	-284.9	42.5	30.2	12.32	3.453	
2,800.0	2,781.0	2,795.7	2,774.9	7.9	8.3	15.25	15.25	-64.8	-299.3	42.5	29.7	12.85	3.308	
2,900.0	2,879.9	2,895.7	2,873.8	8.3	8.6	16.05	16.05	-67.9	-313.6	42.5	29.1	13.39	3.174	
2,960.3	2,939.4	2,955.9	2,933.4	8.5	8.8	16.53	16.53	-69.7	-322.3	42.5	28.8	13.72	3.098	
3,000.0	2,978.8	2,995.7	2,972.7	8.6	9.0	16.85	16.85	-70.9	-328.0	42.5	28.6	13.94	3.049	
3,100.0	3,077.6	3,095.7	3,071.6	9.0	9.3	17.64	17.64	-74.0	-342.4	42.5	28.0	14.49	2.934	
3,200.0	3,176.5	3,195.7	3,170.5	9.3	9.7	18.44	18.44	-77.1	-356.7	42.5	27.5	15.05	2.826	
3,300.0	3,275.4	3,295.7	3,269.4	9.7	10.0	19.24	19.24	-80.2	-371.1	42.6	26.9	15.61	2.725	
3,400.0	3,374.3	3,395.7	3,368.4	10.0	10.4	20.03	20.03	-83.3	-385.5	42.6	26.4	16.18	2.631	
3,500.0	3,473.2	3,495.7	3,467.3	10.4	10.8	20.82	20.82	-86.4	-399.9	42.6	25.9	16.76	2.543	
3,600.0	3,572.1	3,595.7	3,566.2	10.8	11.1	21.62	21.62	-89.4	-414.2	42.7	25.3	17.35	2.460	
3,700.0	3,671.0	3,695.7	3,665.1	11.1	11.5	22.41	22.41	-92.5	-428.6	42.7	24.8	17.94	2.382	
3,800.0	3,769.9	3,795.7	3,764.0	11.5	11.8	23.19	23.19	-95.6	-443.0	42.8	24.3	18.53	2.309	
3,900.0	3,868.8	3,895.7	3,862.9	11.9	12.2	23.98	23.98	-98.7	-457.3	42.9	23.7	19.14	2.240	
4,000.0	3,967.7	3,995.7	3,961.8	12.2	12.6	24.76	24.76	-101.8	-471.7	42.9	23.2	19.75	2.174	
4,100.0	4,066.5	4,095.6	4,060.7	12.6	12.9	25.54	25.54	-104.8	-486.1	43.0	22.7	20.37	2.113	
4,200.0	4,165.4	4,195.6	4,159.7	12.9	13.3	26.32	26.32	-107.9	-500.5	43.1	22.1	20.99	2.055	
4,300.0	4,264.3	4,295.6	4,258.6	13.3	13.6	27.09	27.09	-111.0	-514.8	43.2	21.6	21.62	1.999	
4,400.0	4,363.2	4,395.6	4,357.5	13.7	14.0	27.86	27.86	-114.1	-529.2	43.3	21.1	22.26	1.947	
4,500.0	4,462.1	4,495.6	4,456.4	14.0	14.4	28.62	28.62	-117.2	-543.6	43.5	20.6	22.91	1.898	
4,600.0	4,561.0	4,595.6	4,555.3	14.4	14.7	29.38	29.38	-120.2	-557.9	43.6	20.0	23.56	1.851	
4,700.0	4,659.9	4,695.6	4,654.2	14.7	15.1	30.14	30.14	-123.3	-572.3	43.7	19.5	24.22	1.806	
4,800.0	4,758.8	4,795.6	4,753.1	15.1	15.5	30.89	30.89	-126.4	-586.7	43.9	19.0	24.88	1.763	
4,900.0	4,857.7	4,895.6	4,852.0	15.5	15.8	31.63	31.63	-129.5	-601.1	44.0	18.5	25.55	1.723	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.0	4,956.6	4,995.6	4,950.9	15.8	16.2	32.37	-132.6	-615.4	44.2	18.0	26.23	1.685		
5,100.0	5,055.5	5,095.6	5,049.9	16.2	16.5	33.11	-135.6	-629.8	44.3	17.4	26.91	1.648		
5,200.0	5,154.5	5,195.6	5,148.8	16.5	16.9	33.05	-138.7	-644.2	45.5	18.0	27.44	1.657		
5,300.0	5,254.0	5,295.5	5,247.6	16.7	17.3	30.87	-141.8	-658.5	49.5	21.9	27.57	1.796		
5,400.0	5,353.7	5,395.2	5,346.2	16.9	17.6	27.34	-144.9	-672.9	56.7	29.2	27.46	2.063		
5,500.0	5,453.7	5,494.5	5,444.4	17.1	18.0	23.40	-147.9	-687.1	67.2	39.9	27.28	2.462		
5,600.0	5,553.7	5,593.5	5,542.3	17.2	18.3	-84.53	-151.0	-701.4	80.7	53.5	27.19	2.969		
5,700.0	5,653.7	5,694.5	5,642.3	17.4	18.7	-87.15	-153.9	-715.2	94.2	66.9	27.30	3.450		
5,800.0	5,753.7	5,797.4	5,744.6	17.5	18.9	-88.71	-156.3	-725.9	104.6	77.1	27.51	3.801		
5,900.0	5,853.7	5,900.9	5,847.9	17.7	19.1	-89.59	-157.8	-733.2	111.5	83.7	27.79	4.012		
6,000.0	5,953.7	6,004.9	5,951.8	17.8	19.2	-89.98	-158.6	-736.7	114.9	86.8	28.12	4.087		
6,100.0	6,053.7	6,106.8	6,053.7	18.0	19.4	-90.02	-158.6	-737.1	115.3	86.8	28.48	4.049		
6,200.0	6,153.7	6,206.8	6,153.7	18.1	19.5	-90.02	-158.6	-737.1	115.3	86.5	28.85	3.997		
6,300.0	6,253.7	6,306.8	6,253.7	18.3	19.7	-90.02	-158.6	-737.1	115.3	86.1	29.22	3.947		
6,400.0	6,353.7	6,406.8	6,353.7	18.4	19.8	-90.02	-158.6	-737.1	115.3	85.7	29.59	3.897		
6,500.0	6,453.7	6,506.8	6,453.7	18.6	20.0	-90.02	-158.6	-737.1	115.3	85.3	29.96	3.849		
6,600.0	6,553.7	6,606.8	6,553.7	18.7	20.1	-90.02	-158.6	-737.1	115.3	85.0	30.34	3.801		
6,700.0	6,653.7	6,706.8	6,653.7	18.9	20.2	-90.02	-158.6	-737.1	115.3	84.6	30.71	3.754		
6,800.0	6,753.7	6,806.8	6,753.7	19.0	20.4	-90.02	-158.6	-737.1	115.3	84.2	31.09	3.708		
6,900.0	6,853.4	6,906.8	6,853.5	19.2	20.5	-90.22	-153.0	-737.1	115.3	83.9	31.45	3.666		
7,000.0	6,950.3	7,006.9	6,950.4	19.3	20.6	-90.21	-129.0	-737.0	115.3	83.6	31.69	3.638		
7,100.0	7,040.9	7,107.0	7,041.1	19.4	20.7	-90.19	-86.9	-736.8	115.3	83.4	31.88	3.617		
7,200.0	7,121.7	7,207.1	7,122.0	19.4	20.7	-90.17	-28.2	-736.6	115.3	83.2	32.09	3.593		
7,300.0	7,189.9	7,307.1	7,190.2	19.5	20.8	-90.14	44.8	-736.4	115.3	82.9	32.44	3.554		
7,400.0	7,243.0	7,407.2	7,243.2	19.6	20.9	-90.10	129.5	-736.1	115.3	82.3	33.04	3.489		
7,500.0	7,278.9	7,507.2	7,279.0	19.8	21.1	-90.06	222.7	-735.7	115.3	81.3	33.97	3.394		
7,600.0	7,296.4	7,607.2	7,296.4	20.1	21.4	-90.02	321.0	-735.4	115.3	80.1	35.24	3.272		
7,700.0	7,297.8	7,707.2	7,297.8	20.7	21.9	-90.00	421.0	-735.0	115.3	78.5	36.83	3.130		
7,800.0	7,297.3	7,807.2	7,297.3	21.4	22.5	-90.00	521.0	-734.7	115.3	76.6	38.74	2.976		
7,900.0	7,296.8	7,907.2	7,296.8	22.3	23.4	-90.00	621.0	-734.3	115.3	74.4	40.91	2.818		
8,000.0	7,296.4	8,007.2	7,296.4	23.4	24.4	-90.00	721.0	-734.0	115.3	72.0	43.31	2.662		
8,100.0	7,295.9	8,107.2	7,295.9	24.5	25.5	-90.00	821.0	-733.6	115.3	69.4	45.91	2.511		
8,200.0	7,295.4	8,207.2	7,295.4	25.8	26.7	-90.00	921.0	-733.3	115.3	66.6	48.66	2.369		
8,300.0	7,295.0	8,307.2	7,295.0	27.2	28.0	-90.00	1,021.0	-732.9	115.3	63.7	51.56	2.236		
8,400.0	7,294.5	8,407.2	7,294.5	28.6	29.4	-90.00	1,121.0	-732.6	115.3	60.7	54.57	2.112		
8,500.0	7,294.0	8,507.2	7,294.0	30.1	30.9	-90.00	1,221.0	-732.2	115.3	57.6	57.68	1.999		
8,600.0	7,293.5	8,607.2	7,293.5	31.6	32.4	-90.00	1,321.0	-731.8	115.3	54.4	60.87	1.894		
8,700.0	7,293.1	8,707.2	7,293.1	33.2	33.9	-90.00	1,421.0	-731.5	115.3	51.1	64.13	1.797		
8,800.0	7,292.6	8,807.2	7,292.6	34.8	35.5	-90.00	1,521.0	-731.1	115.3	47.8	67.45	1.709		
8,900.0	7,292.1	8,907.2	7,292.1	36.4	37.1	-90.00	1,620.9	-730.8	115.3	44.4	70.82	1.628		
9,000.0	7,291.7	9,007.2	7,291.7	38.1	38.7	-90.00	1,720.9	-730.4	115.3	41.0	74.24	1.553		
9,100.0	7,291.2	9,107.2	7,291.2	39.8	40.4	-90.00	1,820.9	-730.1	115.3	37.6	77.69	1.484 Level 3		
9,200.0	7,290.7	9,207.2	7,290.7	41.5	42.1	-90.00	1,920.9	-729.7	115.3	34.1	81.18	1.420 Level 3		
9,300.0	7,290.2	9,307.2	7,290.2	43.2	43.8	-90.00	2,020.9	-729.3	115.3	30.6	84.69	1.361 Level 3		
9,400.0	7,289.8	9,407.2	7,289.8	44.9	45.5	-90.00	2,120.9	-729.0	115.3	27.0	88.24	1.306 Level 3		
9,500.0	7,289.3	9,507.2	7,289.3	46.7	47.2	-90.00	2,220.9	-728.6	115.3	23.4	91.80	1.255 Level 3		
9,600.0	7,288.8	9,607.2	7,288.8	48.5	49.0	-90.00	2,320.9	-728.3	115.3	19.9	95.39	1.208 Level 2		
9,700.0	7,288.4	9,707.2	7,288.4	50.2	50.7	-90.00	2,420.9	-727.9	115.2	16.3	98.99	1.164 Level 2		
9,800.0	7,287.9	9,807.2	7,287.9	52.0	52.5	-90.00	2,520.9	-727.6	115.2	12.6	102.61	1.123 Level 2		
9,900.0	7,287.4	9,907.2	7,287.4	53.8	54.3	-90.00	2,620.9	-727.2	115.2	9.0	106.25	1.085 Level 2		
10,000.0	7,286.9	10,007.2	7,286.9	55.6	56.1	-90.00	2,720.9	-726.9	115.2	5.3	109.90	1.049 Level 2		

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.0	7,286.5	10,107.2	7,286.5	57.4	57.9	-90.00	2,820.9	-726.5	115.2	1.7	113.56	1.015	Level 2
10,200.0	7,286.0	10,207.2	7,286.0	59.2	59.7	-90.00	2,920.9	-726.1	115.2	-2.0	117.23	0.983	Level 1
10,300.0	7,285.5	10,307.2	7,285.5	61.1	61.5	-90.00	3,020.9	-725.8	115.2	-5.7	120.91	0.953	Level 1
10,400.0	7,285.1	10,407.2	7,285.1	62.9	63.3	-90.00	3,120.9	-725.4	115.2	-9.4	124.60	0.925	Level 1
10,500.0	7,284.6	10,507.2	7,284.6	64.7	65.1	-90.00	3,220.9	-725.1	115.2	-13.1	128.30	0.898	Level 1
10,600.0	7,284.1	10,607.2	7,284.1	66.6	67.0	-90.00	3,320.9	-724.7	115.2	-16.8	132.00	0.873	Level 1
10,700.0	7,283.6	10,707.2	7,283.6	68.4	68.8	-90.00	3,420.9	-724.4	115.2	-20.5	135.71	0.849	Level 1
10,800.0	7,283.2	10,807.2	7,283.2	70.2	70.6	-90.00	3,520.9	-724.0	115.2	-24.2	139.43	0.826	Level 1
10,900.0	7,282.7	10,907.2	7,282.7	72.1	72.5	-90.00	3,620.9	-723.7	115.2	-27.9	143.16	0.805	Level 1
11,000.0	7,282.2	11,007.2	7,282.2	73.9	74.3	-90.00	3,720.9	-723.3	115.2	-31.7	146.88	0.784	Level 1
11,100.0	7,281.8	11,107.2	7,281.8	75.8	76.2	-90.00	3,820.9	-722.9	115.2	-35.4	150.62	0.765	Level 1
11,200.0	7,281.3	11,207.2	7,281.3	77.6	78.0	-90.00	3,920.9	-722.6	115.2	-39.1	154.36	0.746	Level 1
11,300.0	7,280.8	11,307.2	7,280.8	79.5	79.9	-90.00	4,020.9	-722.2	115.2	-42.9	158.10	0.729	Level 1
11,400.0	7,280.4	11,407.2	7,280.3	81.4	81.7	-90.00	4,120.9	-721.9	115.2	-46.6	161.85	0.712	Level 1
11,500.0	7,279.9	11,507.2	7,279.9	83.2	83.6	-90.00	4,220.9	-721.5	115.2	-50.4	165.60	0.696	Level 1
11,600.0	7,279.4	11,607.2	7,279.4	85.1	85.4	-90.00	4,320.9	-721.2	115.2	-54.1	169.35	0.680	Level 1
11,700.0	7,278.9	11,707.2	7,278.9	87.0	87.3	-90.00	4,420.9	-720.8	115.2	-57.9	173.11	0.666	Level 1
11,800.0	7,278.5	11,807.2	7,278.5	88.8	89.2	-90.00	4,520.9	-720.5	115.2	-61.7	176.87	0.651	Level 1
11,871.0	7,278.1	11,878.2	7,278.1	90.2	90.5	-90.00	4,591.9	-720.2	115.2	-64.3	179.54	0.642	Level 1
11,899.4	7,278.0	11,905.5	7,278.0	90.7	91.0	-90.00	4,619.2	-720.1	115.2	-65.4	180.59	0.638	Level 1, ES, SF

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00		0.0	16.8	16.8	16.8	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	90.00		0.0	16.8	16.8	16.6	0.22	74.771	
200.0	200.0	200.0	200.0	0.3	0.3	90.00		0.0	16.8	16.8	16.1	0.67	24.924	
300.0	300.0	300.0	300.0	0.6	0.6	90.00		0.0	16.8	16.8	15.7	1.12	14.954	
400.0	400.0	400.0	400.0	0.8	0.8	90.00		0.0	16.8	16.8	15.2	1.57	10.682	
500.0	500.0	500.0	500.0	1.0	1.0	90.00		0.0	16.8	16.8	14.8	2.02	8.308	
600.0	600.0	600.0	600.0	1.2	1.2	90.00		0.0	16.8	16.8	14.3	2.47	6.797	
700.0	700.0	700.0	700.0	1.5	1.5	90.00		0.0	16.8	16.8	13.9	2.92	5.752	
800.0	800.0	800.0	800.0	1.7	1.7	90.00		0.0	16.8	16.8	13.4	3.37	4.985 CC, ES	
900.0	900.0	900.0	900.0	1.9	1.9	-167.02		0.0	16.8	18.5	14.7	3.80	4.864	
1,000.0	999.8	999.8	999.8	2.1	2.1	-169.85		0.0	16.8	23.6	19.4	4.22	5.597	
1,100.0	1,099.5	1,099.5	1,099.5	2.3	2.4	-172.56		0.0	16.8	32.2	27.6	4.64	6.945	
1,200.0	1,198.7	1,198.7	1,198.7	2.6	2.6	-174.57		0.0	16.8	44.4	39.3	5.06	8.759	
1,300.0	1,297.6	1,299.6	1,299.6	2.8	2.8	-175.69		-0.5	15.2	57.4	51.9	5.48	10.472	
1,400.0	1,396.5	1,401.3	1,401.2	3.1	3.0	-175.99		-2.2	10.1	67.0	61.1	5.88	11.389	
1,500.0	1,495.4	1,503.6	1,503.0	3.4	3.2	-175.81		-5.1	1.6	73.2	66.9	6.31	11.601	
1,600.0	1,594.3	1,606.2	1,604.9	3.8	3.4	-175.26		-9.1	-10.5	75.8	69.0	6.74	11.240	
1,700.0	1,693.2	1,706.6	1,704.2	4.1	3.7	-174.47		-13.8	-24.3	76.2	69.0	7.19	10.603	
1,800.0	1,792.1	1,806.6	1,803.1	4.4	4.0	-173.69		-18.4	-38.2	76.6	68.9	7.64	10.027	
1,900.0	1,891.0	1,906.6	1,902.0	4.8	4.3	-172.92		-23.1	-52.1	77.0	68.9	8.10	9.506	
2,000.0	1,989.8	2,006.6	2,000.9	5.1	4.6	-172.16		-27.7	-65.9	77.4	68.8	8.56	9.037	
2,100.0	2,088.7	2,106.6	2,099.8	5.4	4.9	-171.40		-32.4	-79.8	77.8	68.8	9.04	8.610	
2,200.0	2,187.6	2,206.6	2,198.8	5.8	5.2	-170.65		-37.0	-93.6	78.3	68.8	9.52	8.221	
2,300.0	2,286.5	2,306.5	2,297.7	6.1	5.5	-169.92		-41.6	-107.5	78.7	68.7	10.01	7.866	
2,400.0	2,385.4	2,406.5	2,396.6	6.5	5.8	-169.19		-46.3	-121.3	79.2	68.7	10.50	7.541	
2,500.0	2,484.3	2,506.5	2,495.5	6.8	6.1	-168.47		-50.9	-135.2	79.7	68.7	11.00	7.242	
2,600.0	2,583.2	2,606.5	2,594.4	7.2	6.5	-167.75		-55.6	-149.1	80.2	68.7	11.51	6.966	
2,700.0	2,682.1	2,706.5	2,693.3	7.5	6.8	-167.05		-60.2	-162.9	80.7	68.7	12.02	6.712	
2,800.0	2,781.0	2,806.5	2,792.3	7.9	7.2	-166.36		-64.9	-176.8	81.2	68.7	12.54	6.477	
2,900.0	2,879.9	2,906.5	2,891.2	8.3	7.5	-165.67		-69.5	-190.6	81.7	68.7	13.06	6.258	
3,000.0	2,978.8	3,006.5	2,990.1	8.6	7.8	-165.00		-74.1	-204.5	82.3	68.7	13.59	6.055	
3,100.0	3,077.6	3,106.5	3,089.0	9.0	8.2	-164.33		-78.8	-218.4	82.8	68.7	14.12	5.865	
3,200.0	3,176.5	3,206.5	3,187.9	9.3	8.5	-163.67		-83.4	-232.2	83.4	68.7	14.66	5.688	
3,300.0	3,275.4	3,306.5	3,286.9	9.7	8.9	-163.02		-88.1	-246.1	84.0	68.8	15.20	5.523	
3,400.0	3,374.3	3,406.5	3,385.8	10.0	9.2	-162.38		-92.7	-259.9	84.6	68.8	15.75	5.367	
3,500.0	3,473.2	3,506.5	3,484.7	10.4	9.6	-161.75		-97.4	-273.8	85.1	68.8	16.31	5.222	
3,600.0	3,572.1	3,606.5	3,583.6	10.8	9.9	-161.12		-102.0	-287.7	85.8	68.9	16.87	5.085	
3,700.0	3,671.0	3,706.5	3,682.5	11.1	10.3	-160.51		-106.6	-301.5	86.4	68.9	17.43	4.956	
3,800.0	3,769.9	3,806.5	3,781.5	11.5	10.6	-159.91		-111.3	-315.4	87.0	69.0	18.00	4.834	
3,900.0	3,868.8	3,906.4	3,880.4	11.9	11.0	-159.31		-115.9	-329.2	87.6	69.1	18.57	4.719	
4,000.0	3,967.7	4,006.4	3,979.3	12.2	11.3	-158.72		-120.6	-343.1	88.3	69.1	19.15	4.610	
4,100.0	4,066.5	4,106.4	4,078.2	12.6	11.7	-158.14		-125.2	-356.9	88.9	69.2	19.73	4.507	
4,200.0	4,165.4	4,206.4	4,177.1	12.9	12.0	-157.57		-129.9	-370.8	89.6	69.3	20.32	4.410	
4,300.0	4,264.3	4,306.4	4,276.1	13.3	12.4	-157.01		-134.5	-384.7	90.3	69.4	20.91	4.317	
4,400.0	4,363.2	4,406.4	4,375.0	13.7	12.7	-156.45		-139.1	-398.5	91.0	69.4	21.50	4.229	
4,500.0	4,462.1	4,506.4	4,473.9	14.0	13.1	-155.91		-143.8	-412.4	91.6	69.5	22.10	4.146	
4,600.0	4,561.0	4,606.4	4,572.8	14.4	13.5	-155.37		-148.4	-426.2	92.3	69.6	22.71	4.066	
4,700.0	4,659.9	4,703.9	4,669.4	14.7	13.7	-155.27		-152.5	-438.4	94.3	71.1	23.23	4.059	
4,800.0	4,758.8	4,800.0	4,765.1	15.1	14.0	-156.08		-155.5	-447.4	99.2	75.6	23.60	4.203	
4,900.0	4,857.7	4,897.4	4,862.3	15.5	14.1	-157.63		-157.5	-453.5	107.1	83.2	23.89	4.485	
5,000.0	4,956.6	4,993.3	4,958.1	15.8	14.3	-159.63		-158.5	-456.3	118.2	94.1	24.11	4.901	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - Wellbore #1 - Plan #1 (8												<b>Offset Site Error:</b>	0.0 ft
<b>Survey Program:</b> 0-MWD												<b>Offset Well Error:</b>	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	5,055.5	5,090.6	5,055.5	16.2	14.4	-161.78	-158.6	-456.6	131.9	107.6	24.34	5.420	
5,200.0	5,154.5	5,189.7	5,154.5	16.5	14.6	-163.54	-158.6	-456.6	145.0	120.4	24.60	5.896	
5,300.0	5,254.0	5,289.1	5,254.0	16.7	14.8	-164.67	-158.6	-456.6	155.0	130.1	24.87	6.232	
5,400.0	5,353.7	5,388.9	5,353.7	16.9	14.9	-165.35	-158.6	-456.6	161.6	136.4	25.15	6.425	
5,500.0	5,453.7	5,488.8	5,453.7	17.1	15.1	-165.66	-158.6	-456.6	164.8	139.4	25.43	6.481	
5,600.0	5,553.7	5,588.8	5,553.7	17.2	15.2	90.00	-158.6	-456.6	165.2	139.5	25.75	6.415	
5,700.0	5,653.7	5,688.8	5,653.7	17.4	15.4	90.00	-158.6	-456.6	165.2	139.1	26.13	6.323	
5,800.0	5,753.7	5,788.8	5,753.7	17.5	15.6	90.00	-158.6	-456.6	165.2	138.7	26.51	6.233	
5,900.0	5,853.7	5,888.8	5,853.7	17.7	15.7	90.00	-158.6	-456.6	165.2	138.3	26.89	6.145	
6,000.0	5,953.7	5,988.8	5,953.7	17.8	15.9	90.00	-158.6	-456.6	165.2	137.9	27.27	6.058	
6,100.0	6,053.7	6,088.8	6,053.7	18.0	16.1	90.00	-158.6	-456.6	165.2	137.6	27.65	5.974	
6,200.0	6,153.7	6,188.8	6,153.7	18.1	16.3	90.00	-158.6	-456.6	165.2	137.2	28.04	5.892	
6,300.0	6,253.7	6,288.8	6,253.7	18.3	16.4	90.00	-158.6	-456.6	165.2	136.8	28.43	5.812	
6,400.0	6,353.7	6,388.8	6,353.7	18.4	16.6	90.00	-158.6	-456.6	165.2	136.4	28.81	5.733	
6,500.0	6,453.7	6,488.8	6,453.7	18.6	16.8	90.00	-158.6	-456.6	165.2	136.0	29.21	5.657	
6,600.0	6,553.7	6,588.8	6,553.7	18.7	17.0	90.00	-158.6	-456.6	165.2	135.6	29.60	5.582	
6,700.0	6,653.7	6,688.8	6,653.7	18.9	17.1	90.00	-158.6	-456.6	165.2	135.2	29.99	5.508	
6,800.0	6,753.7	6,788.8	6,753.7	19.0	17.3	90.00	-158.6	-456.6	165.2	134.8	30.39	5.436	
6,849.8	6,803.4	6,838.6	6,803.4	19.1	17.4	90.31	-158.3	-456.6	165.2	134.6	30.63	5.394	
6,900.0	6,853.4	6,888.8	6,853.5	19.2	17.5	90.49	-155.0	-456.6	165.2	134.4	30.82	5.361	
7,000.0	6,950.3	6,989.2	6,952.4	19.3	17.6	92.98	-138.0	-456.5	165.4	134.2	31.27	5.291	
7,100.0	7,040.9	7,090.5	7,048.7	19.4	17.7	97.15	-107.0	-456.4	166.5	134.8	31.72	5.250	
7,200.0	7,121.7	7,193.1	7,140.9	19.4	17.8	102.78	-62.0	-456.3	169.6	137.5	32.03	5.294	
7,300.0	7,189.9	7,297.8	7,227.3	19.5	17.9	109.44	-3.1	-456.0	175.8	143.8	31.98	5.496	
7,400.0	7,243.0	7,405.3	7,306.1	19.6	18.0	116.61	69.8	-455.8	186.4	154.9	31.48	5.919	
7,500.0	7,278.9	7,516.4	7,375.2	19.8	18.2	123.70	156.7	-455.5	202.0	171.2	30.73	6.573	
7,600.0	7,296.4	7,632.1	7,432.0	20.1	18.5	130.31	257.4	-455.1	222.7	192.4	30.25	7.361	
7,700.0	7,297.8	7,755.2	7,473.7	20.7	19.1	136.76	373.1	-454.7	245.8	215.8	30.07	8.176	
7,800.0	7,297.3	7,889.7	7,496.0	21.4	20.2	140.24	505.5	-454.2	258.8	228.1	30.66	8.442	
7,900.0	7,296.8	8,005.0	7,497.7	22.3	21.4	140.56	620.7	-453.8	260.0	227.8	32.23	8.069	
8,000.0	7,296.4	8,105.0	7,497.3	23.4	22.5	140.57	720.7	-453.5	260.1	226.2	33.93	7.667	
8,100.0	7,295.9	8,205.0	7,496.9	24.5	23.7	140.58	820.7	-453.1	260.2	224.5	35.74	7.280	
8,200.0	7,295.4	8,305.0	7,496.6	25.8	25.1	140.60	920.7	-452.8	260.3	222.6	37.66	6.911	
8,300.0	7,295.0	8,405.0	7,496.2	27.2	26.5	140.61	1,020.7	-452.4	260.4	220.7	39.67	6.564	
8,400.0	7,294.5	8,505.0	7,495.8	28.6	27.9	140.63	1,120.7	-452.1	260.4	218.7	41.75	6.239	
8,500.0	7,294.0	8,605.0	7,495.5	30.1	29.5	140.64	1,220.7	-451.7	260.5	216.6	43.89	5.936	
8,600.0	7,293.5	8,705.0	7,495.1	31.6	31.0	140.66	1,320.7	-451.4	260.6	214.5	46.09	5.655	
8,700.0	7,293.1	8,805.0	7,494.7	33.2	32.6	140.67	1,420.7	-451.0	260.7	212.4	48.33	5.394	
8,800.0	7,292.6	8,905.0	7,494.4	34.8	34.2	140.69	1,520.7	-450.6	260.8	210.2	50.62	5.152	
8,900.0	7,292.1	9,005.0	7,494.0	36.4	35.9	140.70	1,620.7	-450.3	260.9	207.9	52.94	4.928	
9,000.0	7,291.7	9,105.0	7,493.6	38.1	37.6	140.72	1,720.7	-449.9	260.9	205.6	55.29	4.720	
9,100.0	7,291.2	9,205.0	7,493.3	39.8	39.3	140.73	1,820.7	-449.6	261.0	203.4	57.66	4.527	
9,200.0	7,290.7	9,305.0	7,492.9	41.5	41.0	140.74	1,920.7	-449.2	261.1	201.0	60.06	4.347	
9,300.0	7,290.2	9,405.0	7,492.5	43.2	42.7	140.76	2,020.7	-448.9	261.2	198.7	62.48	4.180	
9,400.0	7,289.8	9,505.0	7,492.2	44.9	44.5	140.77	2,120.7	-448.5	261.3	196.3	64.92	4.024	
9,500.0	7,289.3	9,605.0	7,491.8	46.7	46.3	140.79	2,220.7	-448.2	261.3	194.0	67.37	3.879	
9,600.0	7,288.8	9,705.0	7,491.4	48.5	48.0	140.80	2,320.7	-447.8	261.4	191.6	69.84	3.743	
9,700.0	7,288.4	9,805.0	7,491.1	50.2	49.8	140.82	2,420.7	-447.5	261.5	189.2	72.32	3.616	
9,800.0	7,287.9	9,905.0	7,490.7	52.0	51.6	140.83	2,520.7	-447.1	261.6	186.8	74.81	3.497	
9,900.0	7,287.4	10,005.0	7,490.3	53.8	53.4	140.85	2,620.7	-446.8	261.7	184.4	77.31	3.384	
10,000.0	7,286.9	10,105.0	7,490.0	55.6	55.2	140.86	2,720.7	-446.4	261.7	181.9	79.82	3.279	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - Wellbore #1 - Plan #1 (8												<b>Offset Site Error:</b>	0.0 ft
<b>Survey Program:</b> 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.0	7,286.5	10,205.0	7,489.6	57.4	57.1	140.87	2,820.7	-446.0	261.8	179.5	82.34	3.180	
10,200.0	7,286.0	10,305.0	7,489.2	59.2	58.9	140.89	2,920.7	-445.7	261.9	177.0	84.87	3.086	
10,300.0	7,285.5	10,405.0	7,488.9	61.1	60.7	140.90	3,020.7	-445.3	262.0	174.6	87.40	2.998	
10,400.0	7,285.1	10,505.0	7,488.5	62.9	62.5	140.92	3,120.7	-445.0	262.1	172.1	89.94	2.914	
10,500.0	7,284.6	10,605.0	7,488.1	64.7	64.4	140.93	3,220.7	-444.6	262.2	169.7	92.48	2.835	
10,600.0	7,284.1	10,705.0	7,487.8	66.6	66.2	140.95	3,320.7	-444.3	262.2	167.2	95.03	2.760	
10,700.0	7,283.6	10,805.0	7,487.4	68.4	68.1	140.96	3,420.7	-443.9	262.3	164.7	97.58	2.688	
10,800.0	7,283.2	10,905.0	7,487.0	70.2	69.9	140.97	3,520.7	-443.6	262.4	162.3	100.13	2.620	
10,900.0	7,282.7	11,005.0	7,486.7	72.1	71.8	140.99	3,620.7	-443.2	262.5	159.8	102.69	2.556	
11,000.0	7,282.2	11,105.0	7,486.3	73.9	73.6	141.00	3,720.7	-442.9	262.6	157.3	105.26	2.495	
11,100.0	7,281.8	11,205.0	7,485.9	75.8	75.5	141.02	3,820.7	-442.5	262.6	154.8	107.82	2.436	
11,200.0	7,281.3	11,305.0	7,485.6	77.6	77.4	141.03	3,920.7	-442.1	262.7	152.3	110.39	2.380	
11,300.0	7,280.8	11,405.0	7,485.2	79.5	79.2	141.05	4,020.7	-441.8	262.8	149.9	112.96	2.327	
11,400.0	7,280.4	11,505.0	7,484.8	81.4	81.1	141.06	4,120.7	-441.4	262.9	147.4	115.53	2.276	
11,500.0	7,279.9	11,605.0	7,484.5	83.2	83.0	141.07	4,220.7	-441.1	263.0	144.9	118.10	2.227	
11,600.0	7,279.4	11,705.0	7,484.1	85.1	84.8	141.09	4,320.7	-440.7	263.1	142.4	120.68	2.180	
11,700.0	7,278.9	11,805.0	7,483.7	87.0	86.7	141.10	4,420.7	-440.4	263.1	139.9	123.26	2.135	
11,800.0	7,278.5	11,905.0	7,483.4	88.8	88.6	141.12	4,520.7	-440.0	263.2	137.4	125.83	2.092	
11,844.9	7,278.3	11,949.9	7,483.2	89.7	89.4	141.12	4,565.6	-439.9	263.3	136.3	126.99	2.073	
11,899.4	7,278.0	12,003.5	7,483.0	90.7	90.4	141.13	4,619.2	-439.7	263.3	134.9	128.38	2.051 SF	



<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD													<b>Offset Well Error:</b>	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	30.8	30.8					
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	30.8	30.8	30.6	0.22	137.080		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	30.8	30.8	30.1	0.67	45.693		
300.0	300.0	300.0	300.0	0.6	0.6	90.00	0.0	30.8	30.8	29.7	1.12	27.416		
400.0	400.0	400.0	400.0	0.8	0.8	90.00	0.0	30.8	30.8	29.2	1.57	19.583		
500.0	500.0	500.0	500.0	1.0	1.0	90.00	0.0	30.8	30.8	28.8	2.02	15.231		
600.0	600.0	600.0	600.0	1.2	1.2	90.00	0.0	30.8	30.8	28.3	2.47	12.462		
700.0	700.0	700.0	700.0	1.5	1.5	90.00	0.0	30.8	30.8	27.9	2.92	10.545		
800.0	800.0	800.0	800.0	1.7	1.7	90.00	0.0	30.8	30.8	27.4	3.37	9.139 CC, ES		
900.0	900.0	900.0	900.0	1.9	1.9	-166.44	0.0	30.8	32.5	28.7	3.80	8.545		
1,000.0	999.8	999.8	999.8	2.1	2.1	-168.29	0.0	30.8	37.6	33.4	4.22	8.908		
1,100.0	1,099.5	1,099.5	1,099.5	2.3	2.4	-170.46	0.0	30.8	46.2	41.5	4.64	9.945		
1,200.0	1,198.7	1,198.7	1,198.7	2.6	2.6	-172.41	0.0	30.8	58.2	53.2	5.06	11.498		
1,300.0	1,297.6	1,297.6	1,297.6	2.8	2.8	-173.93	0.0	30.8	72.9	67.4	5.50	13.257		
1,400.0	1,396.5	1,396.5	1,396.5	3.1	3.0	-174.96	0.0	30.8	87.6	81.7	5.94	14.767		
1,500.0	1,495.4	1,498.7	1,498.7	3.4	3.2	-175.44	-0.8	29.3	100.9	94.5	6.36	15.853		
1,600.0	1,594.3	1,601.9	1,601.8	3.8	3.4	-175.28	-3.1	24.4	110.7	103.9	6.78	16.329		
1,700.0	1,693.2	1,705.7	1,705.1	4.1	3.6	-174.61	-7.2	16.2	117.1	109.9	7.21	16.242		
1,800.0	1,792.1	1,808.3	1,807.0	4.4	3.9	-173.52	-12.8	4.9	120.2	112.5	7.65	15.716		
1,900.0	1,891.0	1,908.3	1,906.1	4.8	4.1	-172.37	-18.5	-6.8	122.6	114.5	8.10	15.143		
2,000.0	1,989.8	2,008.2	2,005.1	5.1	4.4	-171.28	-24.3	-18.5	125.0	116.5	8.55	14.619		
2,100.0	2,088.7	2,108.2	2,104.2	5.4	4.6	-170.22	-30.1	-30.2	127.5	118.5	9.02	14.137		
2,200.0	2,187.6	2,208.1	2,203.3	5.8	4.9	-169.21	-35.8	-41.9	130.1	120.6	9.50	13.695		
2,300.0	2,286.5	2,308.0	2,302.4	6.1	5.2	-168.23	-41.6	-53.7	132.6	122.6	9.98	13.287		
2,400.0	2,385.4	2,408.0	2,401.5	6.5	5.5	-167.29	-47.4	-65.4	135.2	124.8	10.48	12.910		
2,500.0	2,484.3	2,507.9	2,500.6	6.8	5.8	-166.39	-53.1	-77.1	137.9	126.9	10.98	12.562		
2,600.0	2,583.2	2,607.9	2,599.7	7.2	6.1	-165.52	-58.9	-88.8	140.6	129.1	11.48	12.238		
2,700.0	2,682.1	2,707.8	2,698.7	7.5	6.4	-164.69	-64.7	-100.5	143.3	131.3	12.00	11.938		
2,800.0	2,781.0	2,807.8	2,797.8	7.9	6.7	-163.88	-70.4	-112.2	146.0	133.5	12.52	11.659		
2,900.0	2,879.9	2,907.7	2,896.9	8.3	7.0	-163.11	-76.2	-124.0	148.8	135.7	13.05	11.399		
3,000.0	2,978.8	3,007.6	2,996.0	8.6	7.3	-162.36	-82.0	-135.7	151.6	138.0	13.59	11.156		
3,100.0	3,077.6	3,107.6	3,095.1	9.0	7.6	-161.64	-87.7	-147.4	154.4	140.2	14.13	10.928		
3,200.0	3,176.5	3,207.5	3,194.2	9.3	7.9	-160.95	-93.5	-159.1	157.2	142.5	14.67	10.716		
3,300.0	3,275.4	3,307.5	3,293.3	9.7	8.2	-160.28	-99.3	-170.8	160.1	144.8	15.22	10.516		
3,400.0	3,374.3	3,407.4	3,392.3	10.0	8.6	-159.64	-105.1	-182.5	162.9	147.2	15.78	10.328		
3,500.0	3,473.2	3,507.3	3,491.4	10.4	8.9	-159.01	-110.8	-194.3	165.8	149.5	16.34	10.152		
3,600.0	3,572.1	3,607.3	3,590.5	10.8	9.2	-158.41	-116.6	-206.0	168.8	151.9	16.90	9.986		
3,700.0	3,671.0	3,707.2	3,689.6	11.1	9.5	-157.83	-122.4	-217.7	171.7	154.2	17.47	9.829		
3,800.0	3,769.9	3,807.2	3,788.7	11.5	9.9	-157.27	-128.1	-229.4	174.7	156.6	18.04	9.681		
3,900.0	3,868.8	3,907.1	3,887.8	11.9	10.2	-156.73	-133.9	-241.1	177.6	159.0	18.62	9.541		
4,000.0	3,967.7	4,007.1	3,986.8	12.2	10.5	-156.20	-139.7	-252.8	180.6	161.4	19.20	9.409		
4,100.0	4,066.5	4,107.0	4,085.9	12.6	10.8	-155.70	-145.4	-264.6	183.6	163.8	19.78	9.283		
4,200.0	4,165.4	4,204.0	4,182.1	12.9	11.1	-155.32	-150.8	-275.4	187.1	166.8	20.33	9.205		
4,300.0	4,264.3	4,300.0	4,277.7	13.3	11.3	-155.49	-154.8	-283.5	193.1	172.3	20.79	9.288		
4,400.0	4,363.2	4,393.1	4,370.6	13.7	11.5	-156.17	-157.3	-288.7	201.7	180.5	21.18	9.521		
4,500.0	4,462.1	4,486.8	4,464.3	14.0	11.7	-157.27	-158.5	-291.1	213.0	191.5	21.53	9.893		
4,600.0	4,561.0	4,583.5	4,561.0	14.4	11.9	-158.65	-158.6	-291.3	226.6	204.7	21.86	10.366		
4,700.0	4,659.9	4,682.4	4,659.9	14.7	12.0	-159.94	-158.6	-291.3	240.5	218.3	22.20	10.832		
4,800.0	4,758.8	4,781.3	4,758.8	15.1	12.2	-161.08	-158.6	-291.3	254.5	232.0	22.56	11.281		
4,900.0	4,857.7	4,880.2	4,857.7	15.5	12.4	-162.11	-158.6	-291.3	268.6	245.7	22.93	11.715		
5,000.0	4,956.6	4,979.0	4,956.6	15.8	12.5	-163.03	-158.6	-291.3	282.8	259.5	23.31	12.133		

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	5,055.5	5,077.9	5,055.5	16.2	12.7	-163.87		-158.6	-291.3	297.1	273.4	23.70	12.536	
5,200.0	5,154.5	5,177.0	5,154.5	16.5	12.9	-164.63		-158.6	-291.3	310.3	286.2	24.08	12.883	
5,300.0	5,254.0	5,276.4	5,254.0	16.7	13.1	-165.17		-158.6	-291.3	320.3	295.8	24.43	13.107	
5,400.0	5,353.7	5,376.2	5,353.7	16.9	13.3	-165.51		-158.6	-291.3	326.9	302.1	24.77	13.197	
5,500.0	5,453.7	5,476.1	5,453.7	17.1	13.4	-165.67		-158.6	-291.3	330.1	305.1	25.09	13.160	
5,600.0	5,553.7	5,576.1	5,553.7	17.2	13.6	90.00		-158.6	-291.3	330.5	305.1	25.43	12.999	
5,700.0	5,653.7	5,676.1	5,653.7	17.4	13.8	90.00		-158.6	-291.3	330.5	304.7	25.81	12.806	
5,800.0	5,753.7	5,776.1	5,753.7	17.5	14.0	90.00		-158.6	-291.3	330.5	304.3	26.20	12.617	
5,900.0	5,853.7	5,876.1	5,853.7	17.7	14.2	90.00		-158.6	-291.3	330.5	303.9	26.58	12.433	
6,000.0	5,953.7	5,976.1	5,953.7	17.8	14.4	90.00		-158.6	-291.3	330.5	303.5	26.97	12.254	
6,100.0	6,053.7	6,076.1	6,053.7	18.0	14.6	90.00		-158.6	-291.3	330.5	303.1	27.36	12.078	
6,200.0	6,153.7	6,176.1	6,153.7	18.1	14.8	90.00		-158.6	-291.3	330.5	302.8	27.76	11.907	
6,300.0	6,253.7	6,276.1	6,253.7	18.3	15.0	90.00		-158.6	-291.3	330.5	302.4	28.15	11.740	
6,400.0	6,353.7	6,376.1	6,353.7	18.4	15.1	90.00		-158.6	-291.3	330.5	302.0	28.55	11.577	
6,500.0	6,453.7	6,476.1	6,453.7	18.6	15.3	90.00		-158.6	-291.3	330.5	301.6	28.95	11.418	
6,600.0	6,553.7	6,576.1	6,553.7	18.7	15.5	90.00		-158.6	-291.3	330.5	301.2	29.35	11.263	
6,633.9	6,587.6	6,610.1	6,587.6	18.8	15.6	90.00		-158.6	-291.3	330.5	301.0	29.48	11.211	
6,700.0	6,653.7	6,675.8	6,653.2	18.9	15.7	89.38		-155.0	-291.3	330.5	300.8	29.70	11.131	
6,800.0	6,753.7	6,772.7	6,748.6	19.0	15.9	86.58		-138.9	-291.2	331.2	301.3	29.90	11.078	
6,900.0	6,853.4	6,865.3	6,837.1	19.2	16.0	82.32		-111.5	-291.1	333.6	303.6	30.02	11.113	
7,000.0	6,950.3	6,956.5	6,920.0	19.3	16.1	79.15		-73.6	-291.0	336.7	306.5	30.14	11.172	
7,100.0	7,040.9	7,046.9	6,996.7	19.4	16.2	77.08		-26.1	-290.8	339.2	308.9	30.26	11.209	
7,200.0	7,121.7	7,136.8	7,066.5	19.4	16.3	76.14		30.5	-290.6	340.4	310.0	30.44	11.182	
7,300.0	7,189.9	7,226.5	7,128.6	19.5	16.4	76.36		95.2	-290.4	340.1	309.3	30.79	11.047	
7,400.0	7,243.0	7,316.5	7,182.2	19.6	16.6	77.72		167.4	-290.1	338.3	306.9	31.44	10.762	
7,500.0	7,278.9	7,407.1	7,226.7	19.8	16.9	80.20		246.3	-289.9	335.6	303.1	32.49	10.328	
7,600.0	7,296.4	7,500.0	7,261.5	20.1	17.4	83.82		332.3	-289.6	332.6	298.6	33.99	9.785	
7,700.0	7,297.8	7,592.6	7,284.9	20.7	18.2	87.77		421.9	-289.2	330.8	294.9	35.85	9.226	
7,800.0	7,297.3	7,691.0	7,296.8	21.4	19.2	89.92		519.4	-288.9	330.5	292.6	37.91	8.719	
7,837.5	7,297.1	7,728.5	7,297.9	21.7	19.5	90.12		556.9	-288.8	330.5	291.8	38.73	8.534	
7,900.0	7,296.8	7,790.9	7,297.6	22.3	20.2	90.13		619.4	-288.5	330.5	290.4	40.12	8.237	
8,000.0	7,296.4	7,890.9	7,297.1	23.4	21.5	90.12		719.4	-288.2	330.5	287.9	42.56	7.766	
8,100.0	7,295.9	7,990.9	7,296.6	24.5	22.8	90.12		819.4	-287.8	330.5	285.3	45.18	7.315	
8,200.0	7,295.4	8,090.9	7,296.1	25.8	24.2	90.12		919.4	-287.5	330.5	282.5	47.97	6.890	
8,300.0	7,295.0	8,190.9	7,295.6	27.2	25.6	90.11		1,019.4	-287.1	330.5	279.6	50.89	6.494	
8,400.0	7,294.5	8,290.9	7,295.1	28.6	27.1	90.11		1,119.4	-286.8	330.5	276.6	53.93	6.128	
8,500.0	7,294.0	8,390.9	7,294.6	30.1	28.7	90.11		1,219.4	-286.4	330.5	273.4	57.06	5.792	
8,600.0	7,293.5	8,490.9	7,294.1	31.6	30.3	90.10		1,319.4	-286.1	330.5	270.2	60.27	5.483	
8,700.0	7,293.1	8,590.9	7,293.7	33.2	31.9	90.10		1,419.4	-285.7	330.5	266.9	63.56	5.200	
8,800.0	7,292.6	8,690.9	7,293.2	34.8	33.6	90.10		1,519.4	-285.4	330.5	263.6	66.89	4.940	
8,900.0	7,292.1	8,790.9	7,292.7	36.4	35.3	90.09		1,619.4	-285.0	330.5	260.2	70.28	4.702	
9,000.0	7,291.7	8,890.9	7,292.2	38.1	37.0	90.09		1,719.4	-284.7	330.5	256.8	73.72	4.483	
9,100.0	7,291.2	8,990.9	7,291.7	39.8	38.7	90.09		1,819.4	-284.3	330.5	253.3	77.18	4.282	
9,200.0	7,290.7	9,090.9	7,291.2	41.5	40.5	90.09		1,919.4	-284.0	330.5	249.8	80.69	4.096	
9,300.0	7,290.2	9,190.9	7,290.7	43.2	42.2	90.08		2,019.4	-283.6	330.5	246.3	84.22	3.924	
9,400.0	7,289.8	9,290.9	7,290.2	44.9	44.0	90.08		2,119.4	-283.3	330.5	242.7	87.77	3.765	
9,500.0	7,289.3	9,390.9	7,289.7	46.7	45.8	90.08		2,219.4	-282.9	330.5	239.1	91.35	3.618	
9,600.0	7,288.8	9,490.9	7,289.3	48.5	47.6	90.07		2,319.4	-282.6	330.5	235.5	94.94	3.481	
9,700.0	7,288.4	9,590.9	7,288.8	50.2	49.4	90.07		2,419.4	-282.2	330.5	231.9	98.56	3.353	
9,800.0	7,287.9	9,690.9	7,288.3	52.0	51.2	90.07		2,519.4	-281.9	330.5	228.3	102.19	3.234	
9,900.0	7,287.4	9,790.9	7,287.8	53.8	53.0	90.06		2,619.4	-281.5	330.5	224.6	105.83	3.123	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8													<b>Offset Site Error:</b>	0.0 ft
<b>Survey Program:</b> 0-MWD													<b>Offset Well Error:</b>	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,000.0	7,286.9	9,890.9	7,287.3	55.6	54.8	90.06	2,719.4	-281.1	330.5	221.0	109.49	3.018		
10,100.0	7,286.5	9,990.9	7,286.8	57.4	56.7	90.06	2,819.4	-280.8	330.5	217.3	113.16	2.920		
10,200.0	7,286.0	10,090.9	7,286.3	59.2	58.5	90.06	2,919.4	-280.4	330.5	213.6	116.83	2.829		
10,300.0	7,285.5	10,190.9	7,285.8	61.1	60.3	90.05	3,019.4	-280.1	330.5	209.9	120.52	2.742		
10,400.0	7,285.1	10,290.9	7,285.3	62.9	62.2	90.05	3,119.4	-279.7	330.5	206.2	124.22	2.660		
10,500.0	7,284.6	10,390.9	7,284.9	64.7	64.0	90.05	3,219.3	-279.4	330.5	202.5	127.92	2.583		
10,600.0	7,284.1	10,490.9	7,284.4	66.6	65.9	90.04	3,319.3	-279.0	330.5	198.8	131.63	2.511		
10,700.0	7,283.6	10,590.9	7,283.9	68.4	67.7	90.04	3,419.3	-278.7	330.5	195.1	135.35	2.442		
10,800.0	7,283.2	10,690.9	7,283.4	70.2	69.6	90.04	3,519.3	-278.3	330.5	191.4	139.07	2.376		
10,900.0	7,282.7	10,790.9	7,282.9	72.1	71.5	90.03	3,619.3	-278.0	330.5	187.7	142.80	2.314		
11,000.0	7,282.2	10,890.9	7,282.4	73.9	73.3	90.03	3,719.3	-277.6	330.5	183.9	146.54	2.255		
11,100.0	7,281.8	10,990.9	7,281.9	75.8	75.2	90.03	3,819.3	-277.3	330.5	180.2	150.27	2.199		
11,200.0	7,281.3	11,090.9	7,281.4	77.6	77.1	90.03	3,919.3	-276.9	330.5	176.4	154.02	2.146		
11,300.0	7,280.8	11,190.9	7,280.9	79.5	78.9	90.02	4,019.3	-276.6	330.5	172.7	157.76	2.095		
11,400.0	7,280.4	11,290.9	7,280.5	81.4	80.8	90.02	4,119.3	-276.2	330.5	168.9	161.52	2.046		
11,500.0	7,279.9	11,390.9	7,280.0	83.2	82.7	90.02	4,219.3	-275.9	330.5	165.2	165.27	1.999		
11,600.0	7,279.4	11,490.9	7,279.5	85.1	84.6	90.01	4,319.3	-275.5	330.5	161.4	169.03	1.955		
11,700.0	7,278.9	11,590.9	7,279.0	87.0	86.4	90.01	4,419.3	-275.2	330.4	157.7	172.79	1.912		
11,800.0	7,278.5	11,690.9	7,278.5	88.8	88.3	90.01	4,519.3	-274.8	330.4	153.9	176.55	1.872		
11,899.4	7,278.0	11,790.4	7,278.0	90.7	90.2	90.00	4,618.8	-274.5	330.4	150.2	180.30	1.833 SF		

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.01	90.01	0.0	44.8	44.8				
100.0	100.0	99.0	99.0	0.1	0.1	90.01	90.01	0.0	44.8	44.8	44.6	0.22	200.390	
200.0	200.0	199.0	199.0	0.3	0.3	90.01	90.01	0.0	44.8	44.8	44.1	0.67	66.685	
300.0	300.0	299.0	299.0	0.6	0.6	90.01	90.01	0.0	44.8	44.8	43.7	1.12	39.958	
400.0	400.0	399.0	399.0	0.8	0.8	90.01	90.01	0.0	44.8	44.8	43.2	1.57	28.525	
500.0	500.0	499.0	499.0	1.0	1.0	90.01	90.01	0.0	44.8	44.8	42.8	2.02	22.179	
600.0	600.0	599.0	599.0	1.2	1.2	90.01	90.01	0.0	44.8	44.8	42.3	2.47	18.143	
700.0	700.0	699.0	699.0	1.5	1.5	90.01	90.01	0.0	44.8	44.8	41.9	2.92	15.349	
800.0	800.0	799.0	799.0	1.7	1.7	90.01	90.01	0.0	44.8	44.8	41.4	3.37	13.301 CC, ES	
900.0	900.0	899.0	899.0	1.9	1.9	-166.21	-166.21	0.0	44.8	46.5	42.7	3.80	12.234	
1,000.0	999.8	998.8	998.8	2.1	2.1	-167.57	-167.57	0.0	44.8	51.6	47.4	4.22	12.228	
1,100.0	1,099.5	1,098.5	1,098.5	2.3	2.4	-169.33	-169.33	0.0	44.8	60.1	55.5	4.64	12.959	
1,200.0	1,198.7	1,197.7	1,197.7	2.6	2.6	-171.08	-171.08	0.0	44.8	72.2	67.1	5.06	14.252	
1,300.0	1,297.6	1,296.6	1,296.6	2.8	2.8	-172.58	-172.58	0.0	44.8	86.7	81.2	5.49	15.787	
1,400.0	1,396.5	1,395.5	1,395.5	3.1	3.0	-173.66	-173.66	0.0	44.8	101.5	95.6	5.93	17.103	
1,500.0	1,495.4	1,494.4	1,494.4	3.4	3.2	-174.47	-174.47	0.0	44.8	116.3	109.9	6.38	18.230	
1,600.0	1,594.3	1,593.3	1,593.3	3.8	3.5	-175.10	-175.10	0.0	44.8	131.1	124.2	6.83	19.203	
1,700.0	1,693.2	1,692.2	1,692.2	4.1	3.7	-175.35	-175.35	-0.8	43.9	144.9	137.6	7.26	19.965	
1,800.0	1,792.1	1,791.0	1,791.0	4.4	3.9	-175.03	-175.03	-3.5	41.0	156.5	148.8	7.67	20.398	
1,900.0	1,891.0	1,890.1	1,890.1	4.8	4.1	-174.21	-174.21	-8.0	36.1	165.9	157.8	8.10	20.484	
2,000.0	1,889.8	2,004.6	2,003.8	5.1	4.3	-172.96	-172.96	-14.4	29.0	173.1	164.5	8.54	20.272	
2,100.0	2,088.7	2,106.4	2,105.0	5.4	4.5	-171.37	-171.37	-22.4	20.3	178.4	169.4	8.99	19.842	
2,200.0	2,187.6	2,206.2	2,204.0	5.8	4.7	-169.82	-169.82	-30.5	11.4	183.5	174.0	9.45	19.410	
2,300.0	2,286.5	2,305.9	2,303.0	6.1	5.0	-168.35	-168.35	-38.6	2.5	188.7	178.8	9.93	19.006	
2,400.0	2,385.4	2,405.7	2,402.1	6.5	5.2	-166.96	-166.96	-46.7	-6.4	194.1	183.7	10.42	18.629	
2,500.0	2,484.3	2,505.4	2,501.1	6.8	5.5	-165.65	-165.65	-54.8	-15.2	199.6	188.6	10.92	18.276	
2,600.0	2,583.2	2,605.2	2,600.1	7.2	5.7	-164.41	-164.41	-62.9	-24.1	205.1	193.7	11.43	17.945	
2,700.0	2,682.1	2,704.9	2,699.1	7.5	6.0	-163.24	-163.24	-71.1	-33.0	210.8	198.8	11.95	17.635	
2,800.0	2,781.0	2,804.7	2,798.2	7.9	6.3	-162.12	-162.12	-79.2	-41.9	216.5	204.0	12.48	17.344	
2,900.0	2,879.9	2,904.4	2,897.2	8.3	6.6	-161.07	-161.07	-87.3	-50.7	222.3	209.3	13.02	17.071	
3,000.0	2,978.8	3,004.2	2,996.2	8.6	6.8	-160.07	-160.07	-95.4	-59.6	228.2	214.6	13.57	16.816	
3,100.0	3,077.6	3,103.9	3,095.2	9.0	7.1	-159.12	-159.12	-103.5	-68.5	234.2	220.0	14.13	16.576	
3,200.0	3,176.5	3,203.7	3,194.2	9.3	7.4	-158.21	-158.21	-111.6	-77.4	240.2	225.5	14.69	16.350	
3,300.0	3,275.4	3,303.4	3,293.3	9.7	7.7	-157.35	-157.35	-119.7	-86.2	246.2	231.0	15.26	16.139	
3,400.0	3,374.3	3,403.2	3,392.3	10.0	8.0	-156.54	-156.54	-127.8	-95.1	252.4	236.5	15.83	15.939	
3,500.0	3,473.2	3,502.9	3,491.3	10.4	8.3	-155.76	-155.76	-135.9	-104.0	258.5	242.1	16.41	15.752	
3,600.0	3,572.1	3,600.0	3,587.7	10.8	8.6	-155.09	-155.09	-143.6	-112.4	265.0	248.0	16.98	15.608	
3,700.0	3,671.0	3,696.3	3,683.5	11.1	8.8	-154.81	-154.81	-149.7	-119.2	272.7	255.2	17.48	15.602	
3,800.0	3,769.9	3,791.7	3,778.7	11.5	9.0	-154.95	-154.95	-154.3	-124.1	282.0	264.0	17.95	15.710	
3,900.0	3,868.8	3,886.7	3,873.7	11.9	9.2	-155.44	-155.44	-157.2	-127.3	292.7	274.4	18.39	15.922	
4,000.0	3,967.7	3,981.3	3,968.2	12.2	9.4	-156.26	-156.26	-158.5	-128.8	305.1	286.3	18.79	16.234	
4,100.0	4,066.5	4,078.6	4,065.5	12.6	9.6	-157.30	-157.30	-158.6	-128.9	318.7	299.5	19.18	16.611	
4,200.0	4,165.4	4,177.5	4,164.4	12.9	9.8	-158.28	-158.28	-158.6	-128.9	332.4	312.8	19.58	16.977	
4,300.0	4,264.3	4,276.4	4,263.3	13.3	9.9	-159.19	-159.19	-158.6	-128.9	346.3	326.3	19.98	17.328	
4,400.0	4,363.2	4,375.3	4,362.2	13.7	10.1	-160.03	-160.03	-158.6	-128.9	360.2	339.8	20.39	17.665	
4,500.0	4,462.1	4,474.2	4,461.1	14.0	10.3	-160.80	-160.80	-158.6	-128.9	374.2	353.4	20.80	17.989	
4,600.0	4,561.0	4,573.1	4,560.0	14.4	10.5	-161.52	-161.52	-158.6	-128.9	388.3	367.1	21.22	18.301	
4,700.0	4,659.9	4,672.0	4,658.9	14.7	10.7	-162.19	-162.19	-158.6	-128.9	402.5	380.8	21.64	18.600	
4,800.0	4,758.8	4,770.9	4,757.8	15.1	10.9	-162.82	-162.82	-158.6	-128.9	416.6	394.6	22.06	18.887	
4,900.0	4,857.7	4,869.8	4,856.7	15.5	11.1	-163.40	-163.40	-158.6	-128.9	430.9	408.4	22.48	19.163	
5,000.0	4,956.6	4,968.7	4,955.6	15.8	11.3	-163.95	-163.95	-158.6	-128.9	445.1	422.2	22.91	19.429	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,100.0	5,055.5	5,067.6	5,054.5	16.2	11.5	-164.46	-158.6	-128.9	459.4	436.1	23.34	19.685		
5,200.0	5,154.5	5,166.6	5,153.5	16.5	11.7	-164.96	-158.6	-128.9	472.7	448.9	23.77	19.886		
5,300.0	5,254.0	5,266.1	5,253.0	16.7	11.9	-165.33	-158.6	-128.9	482.7	458.5	24.16	19.982		
5,400.0	5,353.7	5,365.8	5,352.7	16.9	12.1	-165.56	-158.6	-128.9	489.3	464.8	24.52	19.955		
5,500.0	5,453.7	5,465.8	5,452.7	17.1	12.3	-165.68	-158.6	-128.9	492.6	467.7	24.86	19.812		
5,600.0	5,553.7	5,565.8	5,552.7	17.2	12.5	90.00	-158.6	-128.9	492.9	467.7	25.21	19.549		
5,700.0	5,653.7	5,665.8	5,652.7	17.4	12.7	90.00	-158.6	-128.9	492.9	467.3	25.61	19.250		
5,800.0	5,753.7	5,765.8	5,752.7	17.5	12.9	90.00	-158.6	-128.9	492.9	466.9	26.00	18.959		
5,900.0	5,853.7	5,865.8	5,852.7	17.7	13.1	90.00	-158.6	-128.9	492.9	466.5	26.39	18.676		
6,000.0	5,953.7	5,965.8	5,952.7	17.8	13.3	90.00	-158.6	-128.9	492.9	466.1	26.79	18.399		
6,100.0	6,053.7	6,065.8	6,052.7	18.0	13.5	90.00	-158.6	-128.9	492.9	465.7	27.19	18.130		
6,200.0	6,153.7	6,165.8	6,152.7	18.1	13.7	90.00	-158.6	-128.9	492.9	465.3	27.59	17.867		
6,300.0	6,253.7	6,265.8	6,252.7	18.3	13.9	90.00	-158.6	-128.9	492.9	464.9	27.99	17.611		
6,400.0	6,353.7	6,365.8	6,352.7	18.4	14.2	90.00	-158.6	-128.9	492.9	464.5	28.39	17.361		
6,500.0	6,453.7	6,465.8	6,452.7	18.6	14.4	90.00	-158.6	-128.9	492.9	464.1	28.80	17.118		
6,600.0	6,553.7	6,565.8	6,552.7	18.7	14.6	90.00	-158.6	-128.9	492.9	463.7	29.20	16.880		
6,629.0	6,582.6	6,594.7	6,581.6	18.8	14.6	90.00	-158.6	-128.9	492.9	463.6	29.32	16.812		
6,700.0	6,653.7	6,665.8	6,652.1	18.9	14.8	89.59	-155.0	-128.9	492.9	463.4	29.57	16.669		
6,800.0	6,753.7	6,762.1	6,747.5	19.0	14.9	87.71	-138.9	-128.8	493.4	463.6	29.84	16.537		
6,900.0	6,853.4	6,854.7	6,835.8	19.2	15.1	84.77	-111.6	-128.7	495.1	465.1	30.03	16.489		
7,000.0	6,950.3	6,945.8	6,918.7	19.3	15.2	82.62	-73.8	-128.5	497.2	467.0	30.18	16.475		
7,100.0	7,040.9	7,036.1	6,995.4	19.4	15.3	81.20	-26.3	-128.3	498.9	468.6	30.35	16.439		
7,200.0	7,121.7	7,125.9	7,065.1	19.4	15.4	80.56	30.1	-128.1	499.8	469.2	30.60	16.334		
7,300.0	7,189.9	7,215.5	7,127.2	19.5	15.5	80.72	94.8	-127.8	499.6	468.6	31.01	16.111		
7,400.0	7,243.0	7,305.5	7,180.9	19.6	15.8	81.66	166.9	-127.5	498.4	466.8	31.68	15.731		
7,500.0	7,278.9	7,396.0	7,225.4	19.8	16.3	83.37	245.7	-127.2	496.6	463.9	32.70	15.188		
7,600.0	7,296.4	7,487.6	7,259.9	20.1	17.0	85.79	330.4	-126.9	494.6	460.5	34.08	14.513		
7,700.0	7,297.8	7,581.4	7,283.7	20.7	17.8	88.48	421.1	-126.5	493.4	457.6	35.82	13.774		
7,770.6	7,297.5	7,650.5	7,293.6	21.2	18.4	89.67	489.4	-126.2	493.3	456.1	37.22	13.252		
7,800.0	7,297.3	7,679.7	7,295.8	21.4	18.7	89.94	518.6	-126.1	493.3	455.5	37.82	13.042		
7,900.0	7,296.8	7,779.7	7,296.6	22.3	19.9	90.08	618.5	-125.7	493.4	453.3	40.04	12.321		
8,000.0	7,296.4	7,879.7	7,296.1	23.4	21.1	90.08	718.5	-125.3	493.4	450.9	42.48	11.615		
8,100.0	7,295.9	7,979.7	7,295.6	24.5	22.4	90.08	818.5	-124.9	493.5	448.4	45.11	10.940		
8,200.0	7,295.4	8,079.7	7,295.1	25.8	23.8	90.08	918.5	-124.5	493.5	445.6	47.90	10.303		
8,300.0	7,295.0	8,179.7	7,294.6	27.2	25.3	90.08	1,018.5	-124.0	493.6	442.8	50.83	9.711		
8,400.0	7,294.5	8,279.7	7,294.1	28.6	26.8	90.07	1,118.5	-123.6	493.7	439.8	53.87	9.164		
8,500.0	7,294.0	8,379.7	7,293.6	30.1	28.4	90.07	1,218.5	-123.2	493.7	436.7	57.00	8.661		
8,600.0	7,293.5	8,479.7	7,293.1	31.6	30.0	90.07	1,318.5	-122.8	493.8	433.6	60.22	8.200		
8,700.0	7,293.1	8,579.7	7,292.7	33.2	31.6	90.07	1,418.5	-122.4	493.8	430.3	63.50	7.777		
8,800.0	7,292.6	8,679.7	7,292.2	34.8	33.3	90.07	1,518.5	-122.0	493.9	427.0	66.84	7.389		
8,900.0	7,292.1	8,779.7	7,291.7	36.4	35.0	90.06	1,618.5	-121.6	493.9	423.7	70.23	7.033		
9,000.0	7,291.7	8,879.7	7,291.2	38.1	36.7	90.06	1,718.5	-121.2	494.0	420.3	73.67	6.706		
9,100.0	7,291.2	8,979.7	7,290.7	39.8	38.5	90.06	1,818.5	-120.7	494.1	416.9	77.14	6.405		
9,200.0	7,290.7	9,079.7	7,290.2	41.5	40.2	90.06	1,918.5	-120.3	494.1	413.5	80.64	6.127		
9,300.0	7,290.2	9,179.7	7,289.7	43.2	42.0	90.06	2,018.5	-119.9	494.2	410.0	84.17	5.871		
9,400.0	7,289.8	9,279.7	7,289.2	44.9	43.8	90.05	2,118.5	-119.5	494.2	406.5	87.73	5.634		
9,500.0	7,289.3	9,379.7	7,288.7	46.7	45.6	90.05	2,218.5	-119.1	494.3	403.0	91.31	5.414		
9,600.0	7,288.8	9,479.7	7,288.3	48.5	47.4	90.05	2,318.5	-118.7	494.3	399.4	94.90	5.209		
9,700.0	7,288.4	9,579.7	7,287.8	50.2	49.2	90.05	2,418.5	-118.3	494.4	395.9	98.52	5.018		
9,800.0	7,287.9	9,679.7	7,287.3	52.0	51.0	90.05	2,518.5	-117.9	494.5	392.3	102.15	4.841		
9,900.0	7,287.4	9,779.7	7,286.8	53.8	52.8	90.04	2,618.5	-117.5	494.5	388.7	105.79	4.674		

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,000.0	7,286.9	9,879.7	7,286.3	55.6	54.6	90.04	2,718.5	-117.0	494.6	385.1	109.45	4.519	
10,100.0	7,286.5	9,979.7	7,285.8	57.4	56.5	90.04	2,818.5	-116.6	494.6	381.5	113.12	4.373	
10,200.0	7,286.0	10,079.7	7,285.3	59.2	58.3	90.04	2,918.5	-116.2	494.7	377.9	116.80	4.235	
10,300.0	7,285.5	10,179.7	7,284.8	61.1	60.2	90.04	3,018.5	-115.8	494.7	374.3	120.49	4.106	
10,400.0	7,285.1	10,279.7	7,284.4	62.9	62.0	90.03	3,118.5	-115.4	494.8	370.6	124.18	3.984	
10,500.0	7,284.6	10,379.7	7,283.9	64.7	63.9	90.03	3,218.5	-115.0	494.9	367.0	127.89	3.870	
10,600.0	7,284.1	10,479.7	7,283.4	66.6	65.7	90.03	3,318.5	-114.6	494.9	363.3	131.60	3.761	
10,700.0	7,283.6	10,579.7	7,282.9	68.4	67.6	90.03	3,418.5	-114.2	495.0	359.7	135.32	3.658	
10,800.0	7,283.2	10,679.7	7,282.4	70.2	69.5	90.03	3,518.5	-113.8	495.0	356.0	139.04	3.560	
10,900.0	7,282.7	10,779.7	7,281.9	72.1	71.3	90.02	3,618.5	-113.3	495.1	352.3	142.77	3.468	
11,000.0	7,282.2	10,879.7	7,281.4	73.9	73.2	90.02	3,718.5	-112.9	495.2	348.7	146.50	3.380	
11,100.0	7,281.8	10,979.7	7,280.9	75.8	75.1	90.02	3,818.5	-112.5	495.2	345.0	150.24	3.296	
11,200.0	7,281.3	11,079.7	7,280.4	77.6	76.9	90.02	3,918.5	-112.1	495.3	341.3	153.99	3.216	
11,300.0	7,280.8	11,179.7	7,280.0	79.5	78.8	90.02	4,018.5	-111.7	495.3	337.6	157.73	3.140	
11,400.0	7,280.4	11,279.7	7,279.5	81.4	80.7	90.01	4,118.5	-111.3	495.4	333.9	161.49	3.068	
11,500.0	7,279.9	11,379.7	7,279.0	83.2	82.6	90.01	4,218.5	-110.9	495.4	330.2	165.24	2.998	
11,600.0	7,279.4	11,479.7	7,278.5	85.1	84.4	90.01	4,318.5	-110.5	495.5	326.5	169.00	2.932	
11,700.0	7,278.9	11,579.7	7,278.0	87.0	86.3	90.01	4,418.5	-110.1	495.6	322.8	172.76	2.868	
11,800.0	7,278.5	11,679.7	7,277.5	88.8	88.2	90.01	4,518.5	-109.6	495.6	319.1	176.52	2.808	
11,899.4	7,278.0	11,779.1	7,277.0	90.7	90.1	90.00	4,617.9	-109.2	495.7	315.4	180.27	2.750 SF	

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00		0.0	61.6	61.6				
100.0	100.0	99.0	99.0	0.1	0.1	90.00		0.0	61.6	61.6	61.4	0.22	275.536	
200.0	200.0	199.0	199.0	0.3	0.3	90.00		0.0	61.6	61.6	60.9	0.67	91.692	
300.0	300.0	299.0	299.0	0.6	0.6	90.00		0.0	61.6	61.6	60.5	1.12	54.942	
400.0	400.0	399.0	399.0	0.8	0.8	90.00		0.0	61.6	61.6	60.1	1.57	39.222	
500.0	500.0	499.0	499.0	1.0	1.0	90.00		0.0	61.6	61.6	59.6	2.02	30.496	
600.0	600.0	599.0	599.0	1.2	1.2	90.00		0.0	61.6	61.6	59.2	2.47	24.946	
700.0	700.0	699.0	699.0	1.5	1.5	90.00		0.0	61.6	61.6	58.7	2.92	21.105	
800.0	800.0	799.0	799.0	1.7	1.7	90.00		0.0	61.6	61.6	58.3	3.37	18.290 CC, ES	
900.0	900.0	899.0	899.0	1.9	1.9	-166.07		0.0	61.6	63.3	59.5	3.80	16.655	
1,000.0	999.8	998.8	998.8	2.1	2.1	-167.11		0.0	61.6	68.4	64.2	4.22	16.209	
1,100.0	1,099.5	1,098.5	1,098.5	2.3	2.4	-168.52		0.0	61.6	76.9	72.3	4.64	16.574	
1,200.0	1,198.7	1,197.7	1,197.7	2.6	2.6	-170.04		0.0	61.6	88.9	83.8	5.06	17.558	
1,300.0	1,297.6	1,296.6	1,296.6	2.8	2.8	-171.44		0.0	61.6	103.4	97.9	5.50	18.824	
1,400.0	1,396.5	1,395.5	1,395.5	3.1	3.0	-172.51		0.0	61.6	118.2	112.2	5.94	19.908	
1,500.0	1,495.4	1,494.4	1,494.4	3.4	3.2	-173.35		0.0	61.6	132.9	126.5	6.38	20.833	
1,600.0	1,594.3	1,593.3	1,593.3	3.8	3.5	-174.01		0.0	61.6	147.7	140.8	6.83	21.630	
1,700.0	1,693.2	1,692.2	1,692.2	4.1	3.7	-174.56		0.0	61.6	162.5	155.2	7.28	22.323	
1,800.0	1,792.1	1,791.1	1,791.1	4.4	3.9	-175.02		0.0	61.6	177.2	169.5	7.73	22.930	
1,900.0	1,891.0	1,890.0	1,890.0	4.8	4.1	-175.40		0.0	61.6	192.0	183.9	8.18	23.466	
2,000.0	1,989.8	1,988.8	1,988.8	5.1	4.4	-175.73		0.0	61.6	206.9	198.2	8.64	23.942	
2,100.0	2,088.7	2,087.7	2,087.7	5.4	4.6	-176.02		0.0	61.6	221.7	212.6	9.10	24.367	
2,200.0	2,187.6	2,186.6	2,186.6	5.8	4.8	-176.27		0.0	61.6	236.5	226.9	9.56	24.749	
2,300.0	2,286.5	2,285.5	2,285.5	6.1	5.0	-176.49		0.0	61.6	251.3	241.3	10.02	25.094	
2,400.0	2,385.4	2,384.4	2,384.4	6.5	5.2	-176.68		0.0	61.6	266.2	255.7	10.48	25.408	
2,500.0	2,484.3	2,483.3	2,483.3	6.8	5.5	-176.86		0.0	61.6	281.0	270.0	10.94	25.693	
2,600.0	2,583.2	2,584.5	2,584.5	7.2	5.7	-176.85		-0.9	61.5	295.5	284.1	11.38	25.970	
2,700.0	2,682.1	2,686.3	2,686.2	7.5	5.8	-176.37		-4.5	60.9	309.1	297.3	11.80	26.203	
2,800.0	2,781.0	2,788.2	2,787.9	7.9	6.0	-175.48		-10.7	59.9	321.9	309.7	12.22	26.341	
2,900.0	2,879.9	2,889.3	2,888.7	8.3	6.2	-174.23		-19.5	58.5	333.9	321.3	12.65	26.390	
3,000.0	2,978.8	2,988.3	2,987.2	8.6	6.4	-172.97		-28.8	56.9	345.9	332.8	13.10	26.410	
3,100.0	3,077.6	3,087.3	3,085.8	9.0	6.6	-171.79		-38.2	55.4	358.0	344.4	13.55	26.421	
3,200.0	3,176.5	3,186.4	3,184.3	9.3	6.8	-170.70		-47.5	53.9	370.2	356.2	14.01	26.423	
3,300.0	3,275.4	3,285.4	3,282.9	9.7	7.0	-169.67		-56.9	52.4	382.6	368.1	14.48	26.417	
3,400.0	3,374.3	3,384.4	3,381.4	10.0	7.2	-168.71		-66.2	50.9	395.1	380.1	14.96	26.404	
3,500.0	3,473.2	3,483.4	3,480.0	10.4	7.4	-167.80		-75.6	49.3	407.6	392.2	15.45	26.386	
3,600.0	3,572.1	3,582.4	3,578.5	10.8	7.6	-166.95		-85.0	47.8	420.3	404.4	15.94	26.364	
3,700.0	3,671.0	3,681.4	3,677.1	11.1	7.9	-166.15		-94.3	46.3	433.1	416.7	16.44	26.338	
3,800.0	3,769.9	3,780.4	3,775.6	11.5	8.1	-165.40		-103.7	44.8	445.9	429.0	16.95	26.309	
3,900.0	3,868.8	3,879.4	3,874.2	11.9	8.3	-164.68		-113.0	43.3	458.9	441.4	17.46	26.278	
4,000.0	3,967.7	3,978.4	3,972.7	12.2	8.6	-164.01		-122.4	41.7	471.8	453.9	17.98	26.245	
4,100.0	4,066.5	4,077.4	4,071.3	12.6	8.8	-163.37		-131.7	40.2	484.9	466.4	18.50	26.211	
4,200.0	4,165.4	4,175.9	4,169.3	12.9	9.1	-162.79		-140.8	38.7	498.0	479.0	19.02	26.182	
4,300.0	4,264.3	4,273.5	4,266.7	13.3	9.3	-162.47		-148.0	37.6	511.4	491.9	19.52	26.194	
4,400.0	4,363.2	4,371.2	4,364.2	13.7	9.5	-162.43		-152.6	36.8	525.1	505.1	20.00	26.246	
4,500.0	4,462.1	4,468.7	4,461.7	14.0	9.7	-162.66		-154.8	36.5	539.0	518.5	20.46	26.344	
4,600.0	4,561.0	4,567.0	4,560.0	14.4	9.9	-163.10		-155.0	36.4	553.2	532.3	20.90	26.471	
4,700.0	4,659.9	4,665.9	4,658.9	14.7	10.1	-163.53		-155.0	36.4	567.4	546.1	21.34	26.592	
4,800.0	4,758.8	4,764.8	4,757.8	15.1	10.3	-163.95		-155.0	36.4	581.7	559.9	21.78	26.707	
4,900.0	4,857.7	4,863.6	4,856.7	15.5	10.5	-164.34		-155.0	36.4	596.0	573.8	22.23	26.816	
5,000.0	4,956.6	4,962.5	4,955.6	15.8	10.7	-164.72		-155.0	36.4	610.3	587.7	22.67	26.922	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Reference	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	5,055.5	5,061.4	5,054.5	16.2	10.9	-165.08	-165.08	-155.0	36.4	624.7	601.6	23.12	27.024	
5,200.0	5,154.5	5,160.5	5,153.5	16.5	11.1	-165.45	-165.45	-155.0	36.4	638.0	614.4	23.57	27.068	
5,300.0	5,254.0	5,259.9	5,253.0	16.7	11.3	-165.73	-165.73	-155.0	36.4	648.0	624.0	23.98	27.026	
5,400.0	5,353.7	5,359.7	5,352.7	16.9	11.6	-165.91	-165.91	-155.0	36.4	654.6	630.2	24.36	26.876	
5,500.0	5,453.7	5,459.6	5,452.7	17.1	11.8	-165.99	-165.99	-155.0	36.4	657.9	633.2	24.71	26.621	
5,600.0	5,553.7	5,559.6	5,552.7	17.2	12.0	89.69	89.69	-155.0	36.4	658.2	633.2	25.07	26.251	
5,700.0	5,653.7	5,659.6	5,652.7	17.4	12.2	89.69	89.69	-155.0	36.4	658.2	632.8	25.47	25.845	
5,800.0	5,753.7	5,759.6	5,752.7	17.5	12.4	89.69	89.69	-155.0	36.4	658.2	632.4	25.86	25.450	
5,900.0	5,853.7	5,859.6	5,852.7	17.7	12.6	89.69	89.69	-155.0	36.4	658.2	632.0	26.26	25.065	
6,000.0	5,953.7	5,959.6	5,952.7	17.8	12.8	89.69	89.69	-155.0	36.4	658.2	631.6	26.66	24.690	
6,100.0	6,053.7	6,059.6	6,052.7	18.0	13.0	89.69	89.69	-155.0	36.4	658.2	631.2	27.06	24.325	
6,200.0	6,153.7	6,159.6	6,152.7	18.1	13.3	89.69	89.69	-155.0	36.4	658.2	630.8	27.46	23.969	
6,300.0	6,253.7	6,259.6	6,252.7	18.3	13.5	89.69	89.69	-155.0	36.4	658.2	630.4	27.87	23.622	
6,400.0	6,353.7	6,359.6	6,352.7	18.4	13.7	89.69	89.69	-155.0	36.4	658.2	630.0	28.27	23.284	
6,500.0	6,453.7	6,459.6	6,452.7	18.6	13.9	89.69	89.69	-155.0	36.4	658.2	629.6	28.68	22.954	
6,600.0	6,553.7	6,559.6	6,552.7	18.7	14.1	89.69	89.69	-155.0	36.4	658.2	629.1	29.08	22.633	
6,618.5	6,572.2	6,578.1	6,571.2	18.8	14.1	89.69	89.69	-155.0	36.4	658.2	629.1	29.16	22.574	
6,700.0	6,653.7	6,658.8	6,651.7	18.9	14.3	89.38	89.38	-151.5	36.4	658.3	628.8	29.46	22.341	
6,800.0	6,753.7	6,755.0	6,746.5	19.0	14.5	87.99	87.99	-135.5	36.5	658.7	629.0	29.77	22.131	
6,900.0	6,853.4	6,847.1	6,834.5	19.2	14.6	85.75	85.75	-108.5	36.6	660.1	630.1	30.00	22.006	
7,000.0	6,950.3	6,937.8	6,917.1	19.3	14.7	84.14	84.14	-71.1	36.8	661.8	631.6	30.18	21.925	
7,100.0	7,040.9	7,027.7	6,993.6	19.4	14.9	83.10	83.10	-24.0	37.0	663.1	632.7	30.38	21.825	
7,200.0	7,121.7	7,117.1	7,063.2	19.4	15.0	82.64	82.64	32.0	37.2	663.8	633.1	30.66	21.648	
7,300.0	7,189.9	7,206.5	7,125.3	19.5	15.3	82.79	82.79	96.2	37.5	663.6	632.5	31.10	21.337	
7,400.0	7,243.0	7,296.1	7,179.1	19.6	15.7	83.54	83.54	167.8	37.7	662.6	630.9	31.79	20.844	
7,500.0	7,278.9	7,386.4	7,223.8	19.8	16.2	84.87	84.87	246.1	38.1	661.2	628.4	32.80	20.159	
7,600.0	7,296.4	7,477.7	7,258.7	20.1	16.8	86.73	86.73	330.4	38.4	659.6	625.5	34.15	19.315	
7,700.0	7,297.8	7,571.2	7,282.9	20.7	17.6	88.80	88.80	420.6	38.8	658.7	622.8	35.84	18.376	
7,769.1	7,297.5	7,638.7	7,293.0	21.1	18.3	89.70	89.70	487.4	39.1	658.6	621.4	37.20	17.702	
7,800.0	7,297.3	7,669.3	7,295.5	21.4	18.6	89.93	89.93	517.9	39.2	658.6	620.8	37.83	17.409	
7,900.0	7,296.8	7,769.3	7,296.6	22.3	19.8	90.06	90.06	617.9	39.6	658.6	618.6	40.06	16.443	
8,000.0	7,296.4	7,869.3	7,296.1	23.4	21.0	90.06	90.06	717.9	40.0	658.7	616.2	42.50	15.498	
8,100.0	7,295.9	7,969.3	7,295.6	24.5	22.3	90.06	90.06	817.9	40.4	658.8	613.6	45.14	14.594	
8,200.0	7,295.4	8,069.3	7,295.1	25.8	23.7	90.06	90.06	917.9	40.8	658.8	610.9	47.93	13.744	
8,300.0	7,295.0	8,169.3	7,294.6	27.2	25.2	90.06	90.06	1,017.9	41.2	658.9	608.0	50.87	12.953	
8,400.0	7,294.5	8,269.3	7,294.1	28.6	26.8	90.06	90.06	1,117.9	41.6	658.9	605.0	53.91	12.223	
8,500.0	7,294.0	8,369.3	7,293.7	30.1	28.3	90.06	90.06	1,217.8	42.0	659.0	601.9	57.05	11.551	
8,600.0	7,293.5	8,469.3	7,293.2	31.6	30.0	90.05	90.05	1,317.8	42.5	659.0	598.8	60.27	10.935	
8,700.0	7,293.1	8,569.3	7,292.7	33.2	31.6	90.05	90.05	1,417.8	42.9	659.1	595.5	63.55	10.371	
8,800.0	7,292.6	8,669.3	7,292.2	34.8	33.3	90.05	90.05	1,517.8	43.3	659.1	592.3	66.90	9.853	
8,900.0	7,292.1	8,769.3	7,291.7	36.4	35.0	90.05	90.05	1,617.8	43.7	659.2	588.9	70.29	9.378	
9,000.0	7,291.7	8,869.3	7,291.2	38.1	36.7	90.05	90.05	1,717.8	44.1	659.3	585.5	73.72	8.942	
9,100.0	7,291.2	8,969.3	7,290.7	39.8	38.5	90.05	90.05	1,817.8	44.5	659.3	582.1	77.20	8.541	
9,200.0	7,290.7	9,069.3	7,290.2	41.5	40.2	90.05	90.05	1,917.8	44.9	659.4	578.7	80.70	8.170	
9,300.0	7,290.2	9,169.3	7,289.7	43.2	42.0	90.04	90.04	2,017.8	45.3	659.4	575.2	84.24	7.828	
9,400.0	7,289.8	9,269.3	7,289.3	44.9	43.8	90.04	90.04	2,117.8	45.7	659.5	571.7	87.79	7.512	
9,500.0	7,289.3	9,369.3	7,288.8	46.7	45.6	90.04	90.04	2,217.8	46.1	659.5	568.2	91.37	7.218	
9,600.0	7,288.8	9,469.3	7,288.3	48.5	47.4	90.04	90.04	2,317.8	46.6	659.6	564.6	94.97	6.945	
9,700.0	7,288.4	9,569.3	7,287.8	50.2	49.2	90.04	90.04	2,417.8	47.0	659.7	561.1	98.59	6.691	
9,800.0	7,287.9	9,669.3	7,287.3	52.0	51.0	90.04	90.04	2,517.8	47.4	659.7	557.5	102.22	6.454	
9,900.0	7,287.4	9,769.3	7,286.8	53.8	52.8	90.03	90.03	2,617.8	47.8	659.8	553.9	105.87	6.232	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8												<b>Offset Site Error:</b>	0.0 ft
<b>Survey Program:</b> 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,000.0	7,286.9	9,869.3	7,286.3	55.6	54.7	90.03	2,717.8	48.2	659.8	550.3	109.52	6.024	
10,100.0	7,286.5	9,969.3	7,285.8	57.4	56.5	90.03	2,817.8	48.6	659.9	546.7	113.19	5.830	
10,200.0	7,286.0	10,069.3	7,285.4	59.2	58.4	90.03	2,917.8	49.0	659.9	543.1	116.87	5.647	
10,300.0	7,285.5	10,169.3	7,284.9	61.1	60.2	90.03	3,017.8	49.4	660.0	539.4	120.56	5.474	
10,400.0	7,285.1	10,269.3	7,284.4	62.9	62.0	90.03	3,117.8	49.8	660.0	535.8	124.26	5.312	
10,500.0	7,284.6	10,369.3	7,283.9	64.7	63.9	90.03	3,217.8	50.2	660.1	532.1	127.96	5.159	
10,600.0	7,284.1	10,469.3	7,283.4	66.6	65.8	90.02	3,317.8	50.7	660.2	528.5	131.67	5.014	
10,700.0	7,283.6	10,569.3	7,282.9	68.4	67.6	90.02	3,417.8	51.1	660.2	524.8	135.39	4.876	
10,800.0	7,283.2	10,669.3	7,282.4	70.2	69.5	90.02	3,517.8	51.5	660.3	521.2	139.12	4.746	
10,900.0	7,282.7	10,769.3	7,281.9	72.1	71.4	90.02	3,617.8	51.9	660.3	517.5	142.85	4.623	
11,000.0	7,282.2	10,869.3	7,281.4	73.9	73.2	90.02	3,717.8	52.3	660.4	513.8	146.58	4.505	
11,100.0	7,281.8	10,969.3	7,281.0	75.8	75.1	90.02	3,817.8	52.7	660.4	510.1	150.32	4.394	
11,200.0	7,281.3	11,069.3	7,280.5	77.6	77.0	90.01	3,917.8	53.1	660.5	506.4	154.06	4.287	
11,300.0	7,280.8	11,169.3	7,280.0	79.5	78.8	90.01	4,017.8	53.5	660.6	502.7	157.81	4.186	
11,400.0	7,280.4	11,269.3	7,279.5	81.4	80.7	90.01	4,117.8	53.9	660.6	499.0	161.56	4.089	
11,500.0	7,279.9	11,369.3	7,279.0	83.2	82.6	90.01	4,217.8	54.3	660.7	495.3	165.32	3.996	
11,600.0	7,279.4	11,469.3	7,278.5	85.1	84.5	90.01	4,317.8	54.8	660.7	491.6	169.08	3.908	
11,700.0	7,278.9	11,569.3	7,278.0	87.0	86.4	90.01	4,417.8	55.2	660.8	487.9	172.84	3.823	
11,800.0	7,278.5	11,669.3	7,277.5	88.8	88.2	90.01	4,517.8	55.6	660.8	484.2	176.60	3.742	
11,899.4	7,278.0	11,768.7	7,277.0	90.7	90.1	90.00	4,617.2	56.0	660.9	480.5	180.35	3.665 SF	



<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00		0.0	75.6	75.6				
100.0	100.0	99.0	99.0	0.1	0.1	90.00		0.0	75.6	75.6	75.4	0.22	338.157	
200.0	200.0	199.0	199.0	0.3	0.3	90.00		0.0	75.6	75.6	75.0	0.67	112.532	
300.0	300.0	299.0	299.0	0.6	0.6	90.00		0.0	75.6	75.6	74.5	1.12	67.429	
400.0	400.0	399.0	399.0	0.8	0.8	90.00		0.0	75.6	75.6	74.1	1.57	48.136	
500.0	500.0	499.0	499.0	1.0	1.0	90.00		0.0	75.6	75.6	73.6	2.02	37.427	
600.0	600.0	599.0	599.0	1.2	1.2	90.00		0.0	75.6	75.6	73.2	2.47	30.616	
700.0	700.0	699.0	699.0	1.5	1.5	90.00		0.0	75.6	75.6	72.7	2.92	25.902	
800.0	800.0	799.0	799.0	1.7	1.7	90.00		0.0	75.6	75.6	72.3	3.37	22.446	CC, ES
900.0	900.0	899.0	899.0	1.9	1.9	-166.00		0.0	75.6	77.3	73.5	3.80	20.339	
1,000.0	999.8	998.8	998.8	2.1	2.1	-166.86		0.0	75.6	82.4	78.2	4.22	19.526	
1,100.0	1,099.5	1,098.5	1,098.5	2.3	2.4	-168.07		0.0	75.6	90.9	86.3	4.64	19.587	
1,200.0	1,198.7	1,197.7	1,197.7	2.6	2.6	-169.43		0.0	75.6	102.9	97.8	5.06	20.315	
1,300.0	1,297.6	1,296.6	1,296.6	2.8	2.8	-170.74		0.0	75.6	117.4	111.9	5.50	21.359	
1,400.0	1,396.5	1,395.5	1,395.5	3.1	3.0	-171.77		0.0	75.6	132.1	126.1	5.94	22.249	
1,500.0	1,495.4	1,494.4	1,494.4	3.4	3.2	-172.60		0.0	75.6	146.8	140.4	6.38	23.006	
1,600.0	1,594.3	1,593.3	1,593.3	3.8	3.5	-173.28		0.0	75.6	161.5	154.7	6.83	23.657	
1,700.0	1,693.2	1,692.2	1,692.2	4.1	3.7	-173.85		0.0	75.6	176.3	169.0	7.28	24.221	
1,800.0	1,792.1	1,791.1	1,791.1	4.4	3.9	-174.32		0.0	75.6	191.1	183.3	7.73	24.714	
1,900.0	1,891.0	1,887.6	1,887.6	4.8	4.1	-174.48		-0.8	76.3	206.4	198.2	8.16	25.292	
2,000.0	1,989.8	1,983.5	1,983.4	5.1	4.3	-174.07		-3.4	78.4	222.9	214.4	8.57	26.010	
2,100.0	2,088.7	2,078.8	2,078.6	5.4	4.5	-173.22		-7.9	82.0	240.8	231.8	8.99	26.791	
2,200.0	2,187.6	2,173.5	2,172.9	5.8	4.6	-172.05		-14.2	87.1	260.0	250.6	9.41	27.617	
2,300.0	2,286.5	2,269.0	2,267.9	6.1	4.8	-170.64		-22.2	93.6	280.5	270.7	9.86	28.465	
2,400.0	2,385.4	2,366.6	2,364.8	6.5	5.0	-169.34		-30.6	100.5	301.5	291.2	10.31	29.240	
2,500.0	2,484.3	2,464.2	2,461.8	6.8	5.3	-168.20		-39.1	107.4	322.5	311.8	10.77	29.939	
2,600.0	2,583.2	2,561.7	2,558.7	7.2	5.5	-167.20		-47.6	114.3	343.7	332.5	11.24	30.565	
2,700.0	2,682.1	2,659.3	2,655.7	7.5	5.7	-166.32		-56.1	121.2	365.0	353.2	11.72	31.135	
2,800.0	2,781.0	2,756.9	2,752.6	7.9	6.0	-165.54		-64.6	128.1	386.3	374.1	12.21	31.650	
2,900.0	2,879.9	2,854.4	2,849.6	8.3	6.2	-164.83		-73.1	135.0	407.7	395.0	12.69	32.117	
3,000.0	2,978.8	2,952.0	2,946.5	8.6	6.5	-164.20		-81.6	141.9	429.1	416.0	13.19	32.542	
3,100.0	3,077.6	3,049.6	3,043.5	9.0	6.7	-163.63		-90.1	148.8	450.6	436.9	13.68	32.931	
3,200.0	3,176.5	3,147.1	3,140.4	9.3	7.0	-163.11		-98.6	155.7	472.2	458.0	14.18	33.286	
3,300.0	3,275.4	3,244.7	3,237.4	9.7	7.3	-162.63		-107.0	162.6	493.7	479.0	14.69	33.613	
3,400.0	3,374.3	3,342.3	3,334.4	10.0	7.5	-162.20		-115.5	169.5	515.3	500.1	15.19	33.914	
3,500.0	3,473.2	3,439.8	3,431.3	10.4	7.8	-161.80		-124.0	176.4	536.9	521.2	15.70	34.192	
3,600.0	3,572.1	3,537.4	3,528.3	10.8	8.1	-161.43		-132.5	183.3	558.6	542.4	16.22	34.449	
3,700.0	3,671.0	3,641.3	3,631.5	11.1	8.3	-161.10		-141.2	190.4	580.0	563.2	16.73	34.668	
3,800.0	3,769.9	3,751.0	3,740.8	11.5	8.6	-160.97		-148.2	196.1	599.6	582.4	17.23	34.796	
3,900.0	3,868.8	3,861.5	3,851.2	11.9	8.8	-161.08		-152.8	199.8	617.3	599.6	17.72	34.830	
4,000.0	3,967.7	3,972.7	3,962.4	12.2	9.1	-161.39		-154.9	201.5	633.1	614.8	18.20	34.782	
4,100.0	4,066.5	4,075.9	4,065.5	12.6	9.3	-161.81		-155.0	201.6	647.3	628.6	18.65	34.703	
4,200.0	4,165.4	4,174.8	4,164.4	12.9	9.5	-162.21		-155.0	201.6	661.4	642.3	19.10	34.631	
4,300.0	4,264.3	4,273.7	4,263.3	13.3	9.7	-162.60		-155.0	201.6	675.6	656.0	19.55	34.561	
4,400.0	4,363.2	4,372.5	4,362.2	13.7	9.8	-162.97		-155.0	201.6	689.8	669.8	20.00	34.495	
4,500.0	4,462.1	4,471.4	4,461.1	14.0	10.0	-163.32		-155.0	201.6	704.0	683.6	20.45	34.432	
4,600.0	4,561.0	4,570.3	4,560.0	14.4	10.2	-163.66		-155.0	201.6	718.3	697.4	20.90	34.372	
4,700.0	4,659.9	4,669.2	4,658.9	14.7	10.4	-163.99		-155.0	201.6	732.6	711.2	21.35	34.315	
4,800.0	4,758.8	4,768.1	4,757.8	15.1	10.6	-164.30		-155.0	201.6	746.9	725.1	21.80	34.261	
4,900.0	4,857.7	4,867.0	4,856.7	15.5	10.8	-164.60		-155.0	201.6	761.2	738.9	22.25	34.209	
5,000.0	4,956.6	4,965.9	4,955.6	15.8	11.0	-164.89		-155.0	201.6	775.5	752.8	22.70	34.159	

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 Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,100.0	5,055.5	5,064.8	5,054.5	16.2	11.2	-165.17	-155.0	201.6	789.9	766.7	23.16	34.112		
5,200.0	5,154.5	5,163.8	5,153.5	16.5	11.5	-165.48	-155.0	201.6	803.2	779.5	23.62	33.999		
5,300.0	5,254.0	5,263.3	5,253.0	16.7	11.7	-165.71	-155.0	201.6	813.2	789.1	24.04	33.820		
5,400.0	5,353.7	5,363.1	5,352.7	16.9	11.9	-165.86	-155.0	201.6	819.8	795.4	24.44	33.546		
5,500.0	5,453.7	5,463.0	5,452.7	17.1	12.1	-165.93	-155.0	201.6	823.1	798.3	24.80	33.183		
5,600.0	5,553.7	5,563.0	5,552.7	17.2	12.3	89.75	-155.0	201.6	823.4	798.3	25.17	32.711		
5,700.0	5,653.7	5,663.0	5,652.7	17.4	12.5	89.75	-155.0	201.6	823.4	797.9	25.57	32.208		
5,800.0	5,753.7	5,763.0	5,752.7	17.5	12.7	89.75	-155.0	201.6	823.4	797.5	25.96	31.718		
5,900.0	5,853.7	5,863.0	5,852.7	17.7	12.9	89.75	-155.0	201.6	823.4	797.1	26.36	31.240		
6,000.0	5,953.7	5,963.0	5,952.7	17.8	13.1	89.75	-155.0	201.6	823.4	796.7	26.76	30.775		
6,100.0	6,053.7	6,063.0	6,052.7	18.0	13.3	89.75	-155.0	201.6	823.4	796.3	27.16	30.322		
6,200.0	6,153.7	6,163.0	6,152.7	18.1	13.5	89.75	-155.0	201.6	823.4	795.9	27.56	29.881		
6,300.0	6,253.7	6,263.0	6,252.7	18.3	13.8	89.75	-155.0	201.6	823.4	795.5	27.96	29.450		
6,400.0	6,353.7	6,363.0	6,352.7	18.4	14.0	89.75	-155.0	201.6	823.4	795.1	28.36	29.031		
6,500.0	6,453.7	6,463.0	6,452.7	18.6	14.2	89.75	-155.0	201.6	823.4	794.7	28.77	28.621		
6,600.0	6,553.7	6,563.0	6,552.7	18.7	14.4	89.75	-155.0	201.6	823.4	794.3	29.18	28.222		
6,700.0	6,653.7	6,663.0	6,652.7	18.9	14.6	89.75	-155.0	201.6	823.4	793.9	29.58	27.833		
6,800.0	6,753.7	6,763.0	6,752.7	19.0	14.8	89.75	-155.0	201.6	823.4	793.4	29.99	27.454		
6,900.0	6,853.4	6,862.3	6,851.9	19.2	15.0	89.69	-151.5	201.6	823.4	793.0	30.38	27.103		
6,955.2	6,907.5	6,917.2	6,906.2	19.3	15.1	89.93	-143.9	201.7	823.4	792.9	30.55	26.953		
7,000.0	6,950.3	6,961.8	6,949.9	19.3	15.2	90.20	-134.7	201.7	823.4	792.7	30.68	26.838		
7,100.0	7,040.9	7,062.2	7,045.4	19.4	15.3	91.06	-104.3	201.8	823.6	792.7	30.93	26.627		
7,200.0	7,121.7	7,163.9	7,137.0	19.4	15.5	92.25	-60.1	202.0	824.1	792.9	31.18	26.427		
7,300.0	7,189.9	7,267.7	7,222.9	19.5	15.6	93.73	-2.1	202.3	825.4	793.8	31.53	26.180		
7,400.0	7,243.0	7,374.2	7,301.5	19.6	15.7	95.45	69.6	202.5	827.6	795.6	32.05	25.822		
7,500.0	7,278.9	7,484.2	7,370.6	19.8	16.1	97.37	155.1	202.9	831.3	798.4	32.86	25.300		
7,600.0	7,296.4	7,599.0	7,427.9	20.1	16.7	99.45	254.4	203.3	836.6	802.6	34.03	24.581		
7,700.0	7,297.8	7,721.1	7,470.5	20.7	17.6	101.90	368.7	203.8	843.3	807.7	35.60	23.690		
7,800.0	7,297.3	7,855.0	7,494.3	21.4	18.9	103.51	500.3	204.3	847.4	809.8	37.62	22.528		
7,900.0	7,296.8	7,972.7	7,496.7	22.3	20.2	103.70	617.9	204.8	848.0	808.1	39.92	21.241		
8,000.0	7,296.4	8,072.7	7,496.3	23.4	21.4	103.71	717.9	205.2	848.1	805.8	42.28	20.057		
8,100.0	7,295.9	8,172.7	7,496.0	24.5	22.7	103.71	817.9	205.6	848.1	803.3	44.83	18.920		
8,200.0	7,295.4	8,272.7	7,495.6	25.8	24.1	103.72	917.9	206.0	848.2	800.7	47.53	17.846		
8,300.0	7,295.0	8,372.7	7,495.2	27.2	25.5	103.72	1,017.9	206.4	848.3	797.9	50.36	16.843		
8,400.0	7,294.5	8,472.7	7,494.9	28.6	27.0	103.73	1,117.9	206.9	848.4	795.1	53.31	15.914		
8,500.0	7,294.0	8,572.7	7,494.5	30.1	28.6	103.74	1,217.9	207.3	848.5	792.1	56.35	15.057		
8,600.0	7,293.5	8,672.7	7,494.1	31.6	30.2	103.74	1,317.9	207.7	848.5	789.1	59.47	14.269		
8,700.0	7,293.1	8,772.7	7,493.8	33.2	31.8	103.75	1,417.9	208.1	848.6	786.0	62.65	13.545		
8,800.0	7,292.6	8,872.7	7,493.4	34.8	33.5	103.75	1,517.9	208.5	848.7	782.8	65.89	12.880		
8,900.0	7,292.1	8,972.7	7,493.0	36.4	35.2	103.76	1,617.9	208.9	848.8	779.6	69.19	12.268		
9,000.0	7,291.7	9,072.7	7,492.7	38.1	36.9	103.77	1,717.9	209.3	848.9	776.3	72.52	11.705		
9,100.0	7,291.2	9,172.7	7,492.3	39.8	38.6	103.77	1,817.9	209.7	848.9	773.0	75.89	11.186		
9,200.0	7,290.7	9,272.7	7,491.9	41.5	40.4	103.78	1,917.9	210.1	849.0	769.7	79.30	10.707		
9,300.0	7,290.2	9,372.7	7,491.6	43.2	42.1	103.78	2,017.9	210.5	849.1	766.4	82.73	10.264		
9,400.0	7,289.8	9,472.7	7,491.2	44.9	43.9	103.79	2,117.9	211.0	849.2	763.0	86.19	9.853		
9,500.0	7,289.3	9,572.7	7,490.8	46.7	45.7	103.80	2,217.9	211.4	849.3	759.6	89.66	9.472		
9,600.0	7,288.8	9,672.7	7,490.5	48.5	47.5	103.80	2,317.9	211.8	849.3	756.2	93.16	9.117		
9,700.0	7,288.4	9,772.7	7,490.1	50.2	49.3	103.81	2,417.9	212.2	849.4	752.7	96.68	8.786		
9,800.0	7,287.9	9,872.7	7,489.7	52.0	51.1	103.81	2,517.9	212.6	849.5	749.3	100.21	8.477		
9,900.0	7,287.4	9,972.7	7,489.4	53.8	52.9	103.82	2,617.9	213.0	849.6	745.8	103.75	8.188		
10,000.0	7,286.9	10,072.7	7,489.0	55.6	54.8	103.83	2,717.9	213.4	849.7	742.3	107.31	7.918		

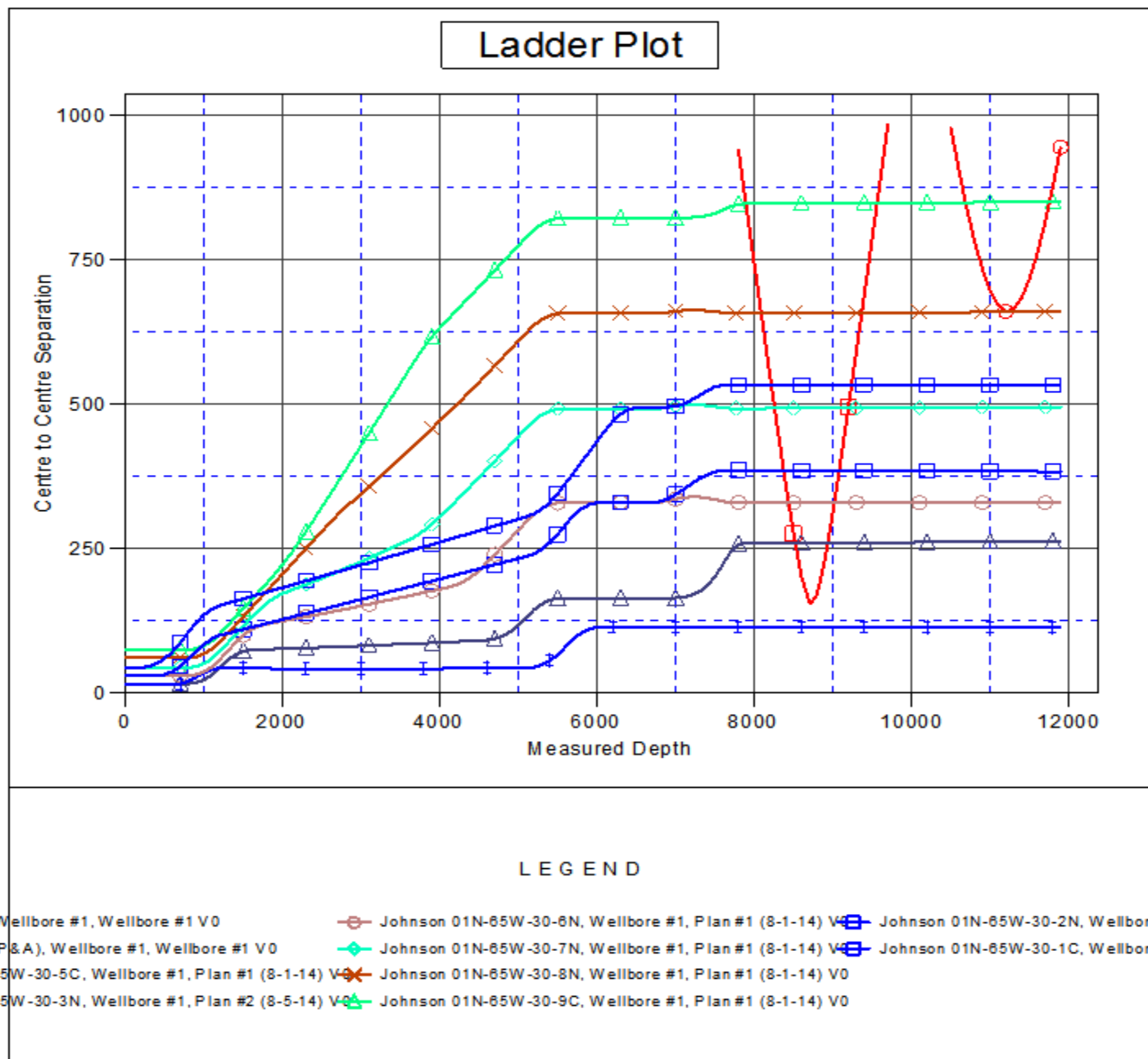
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.0	7,286.5	10,172.7	7,488.6	57.4	56.6	103.83	2,817.9	213.8	849.7	738.9	110.88	7.664	
10,200.0	7,286.0	10,272.7	7,488.3	59.2	58.4	103.84	2,917.9	214.2	849.8	735.4	114.46	7.425	
10,300.0	7,285.5	10,372.7	7,487.9	61.1	60.3	103.84	3,017.9	214.6	849.9	731.9	118.05	7.200	
10,400.0	7,285.1	10,472.7	7,487.5	62.9	62.1	103.85	3,117.9	215.1	850.0	728.3	121.64	6.987	
10,500.0	7,284.6	10,572.7	7,487.2	64.7	64.0	103.86	3,217.9	215.5	850.1	724.8	125.25	6.787	
10,600.0	7,284.1	10,672.7	7,486.8	66.6	65.8	103.86	3,317.9	215.9	850.1	721.3	128.86	6.597	
10,700.0	7,283.6	10,772.7	7,486.4	68.4	67.7	103.87	3,417.9	216.3	850.2	717.7	132.48	6.418	
10,800.0	7,283.2	10,872.7	7,486.1	70.2	69.5	103.87	3,517.9	216.7	850.3	714.2	136.10	6.248	
10,900.0	7,282.7	10,972.7	7,485.7	72.1	71.4	103.88	3,617.9	217.1	850.4	710.7	139.73	6.086	
11,000.0	7,282.2	11,072.7	7,485.3	73.9	73.3	103.89	3,717.9	217.5	850.5	707.1	143.36	5.932	
11,100.0	7,281.8	11,172.7	7,485.0	75.8	75.1	103.89	3,817.9	217.9	850.5	703.5	147.00	5.786	
11,200.0	7,281.3	11,272.7	7,484.6	77.6	77.0	103.90	3,917.9	218.3	850.6	700.0	150.64	5.647	
11,300.0	7,280.8	11,372.7	7,484.2	79.5	78.9	103.90	4,017.9	218.8	850.7	696.4	154.29	5.514	
11,400.0	7,280.4	11,472.7	7,483.9	81.4	80.8	103.91	4,117.9	219.2	850.8	692.8	157.94	5.387	
11,500.0	7,279.9	11,572.7	7,483.5	83.2	82.6	103.92	4,217.9	219.6	850.9	689.3	161.60	5.265	
11,600.0	7,279.4	11,672.7	7,483.1	85.1	84.5	103.92	4,317.9	220.0	850.9	685.7	165.25	5.149	
11,700.0	7,278.9	11,772.7	7,482.8	87.0	86.4	103.93	4,417.9	220.4	851.0	682.1	168.91	5.038	
11,800.0	7,278.5	11,872.7	7,482.4	88.8	88.3	103.93	4,517.9	220.8	851.1	678.5	172.58	4.932	
11,899.4	7,278.0	11,972.2	7,482.0	90.7	90.1	103.94	4,617.3	221.2	851.2	675.0	176.22	4.830 SF	

<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5013.0ft (Original Well Elev) Coordinates are relative to: Johnson 01N-65W-30-4N  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.51°



<b>Company:</b>	Verdad Oil & Gas Corporation	<b>Local Co-ordinate Reference:</b>	Well Johnson 01N-65W-30-4N
<b>Project:</b>	SEC.30-T1N-R65W	<b>TVD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Reference Site:</b>	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	<b>MD Reference:</b>	WELL @ 5013.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Johnson 01N-65W-30-4N	<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 #2 (8-5-14)	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5013.0ft (Original Well Elev) Coordinates are relative to: Johnson 01N-65W-30-4N  
 Offset Depths are relative to Offset Datum  
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