

Verdad Oil & Gas Corporation

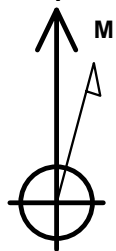
Well Name: **Johnson 01N-65W-30-8N**

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: 4999.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1249523.47	3221385.35	40.015620	-104.709580	
Original Well Elev WELL @ 5012.0ft (Original Well Elev)						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
460' Setback BHL	0.0	4615.6	-1306.4	Polygon
460' Setback SHL	0.0	251.4	-1306.4	Polygon
Sectionline	0.0	-208.6	-1306.4	Polygon
SHL 205'FSL & 1839'FWL	1.0	0.0	0.0	Point
Gilmore 1-30 300' Circle	22.0	3941.2	-7.6	Circle (Radius: 300.0)
BHL 460'FNL & 1865'FWL	7277.0	4626.5	44.4	Point



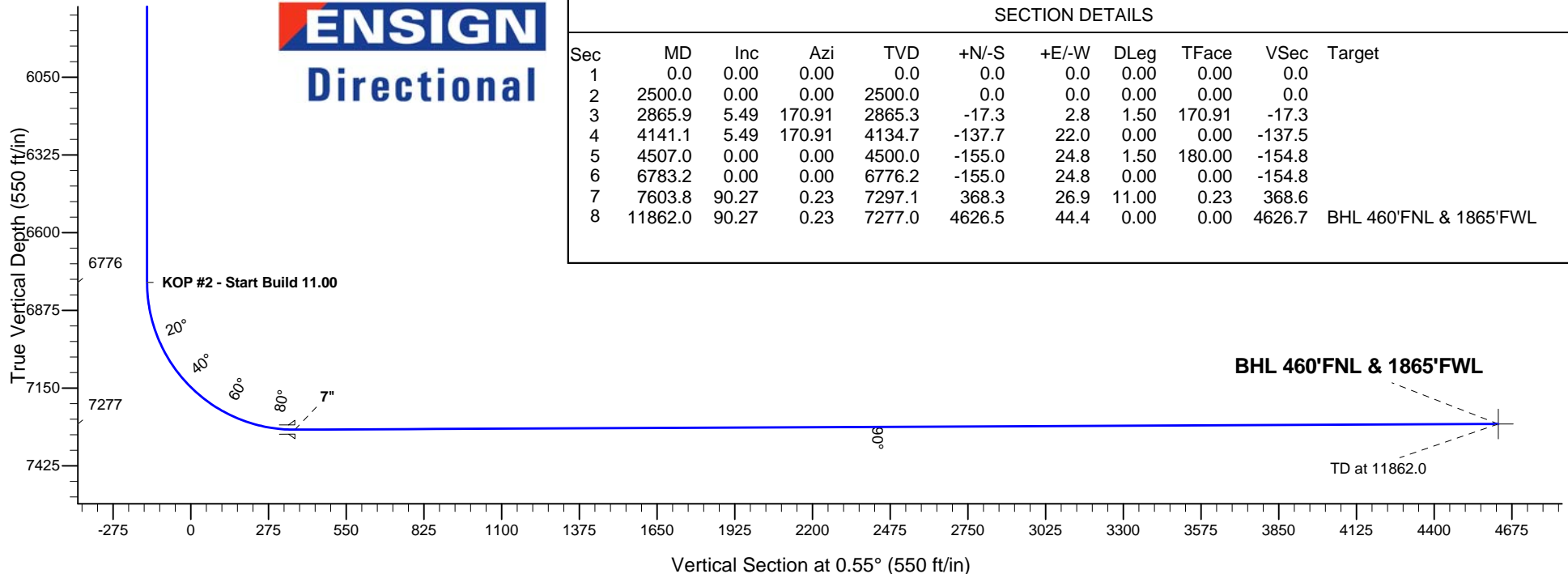
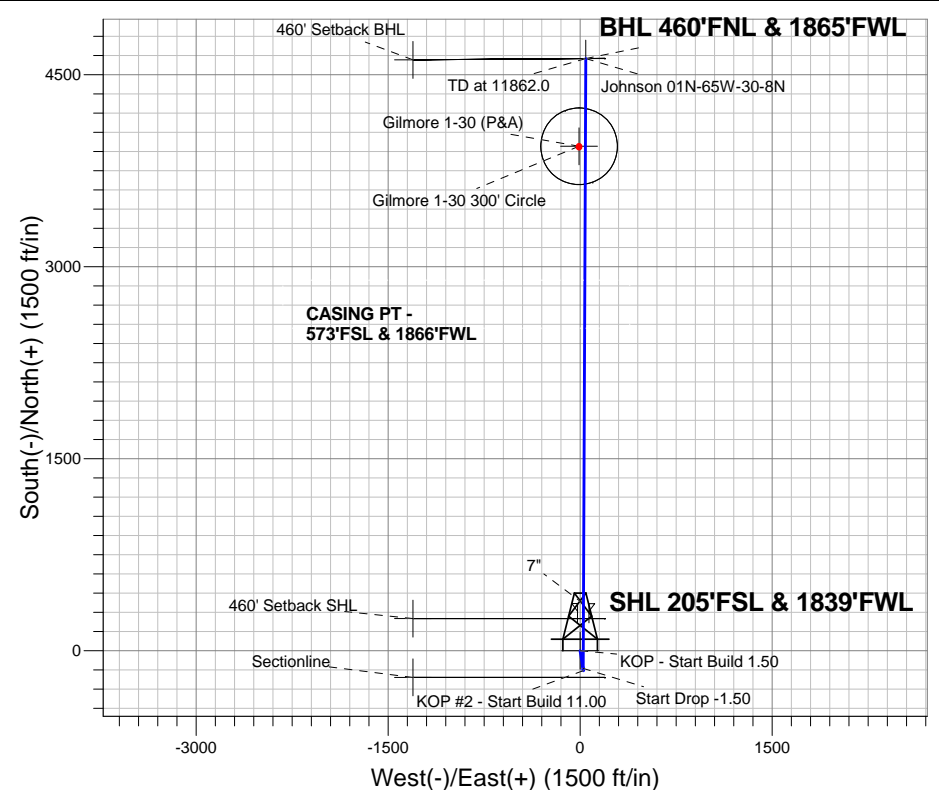
Azimuths to True North
Magnetic North: 8.38°

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-30-8N
Plan #2 (8-5-14)

ANNOTATIONS

TVD	MD	Annotation
2500.0	2500.0	KOP - Start Build 1.50
4134.7	4141.1	Start Drop -1.50
6776.2	6783.2	KOP #2 - Start Build 11.00
7277.0	11862.0	TD at 11862.0





Verdad Oil & Gas Corporation

SEC.30-T1N-R65W

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

Johnson 01N-65W-30-8N

Wellbore #1

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

Standard Planning Report

05 August, 2014

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Project:	SEC.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	North Reference:	True
Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (8-5-14)		

Project	SEC.30-T1N-R65W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	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
From:	Lat/Long	Easting:	3,221,278.95ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.015610
		Longitude:	-104.709960
		Grid Convergence:	0.51 °

Well	Johnson 01N-65W-30-8N		
Well Position	+N/-S	3.6 ft	Northing:
	+E/-W	106.4 ft	Easting:
Position Uncertainty		0.0 ft	Wellhead Elevation:
			ft
			Latitude:
			40.015620
			Longitude:
			-104.709580
			Ground Level:
			4,999.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/1/2014	8.38	66.64	52,604

Design	Plan #2 (8-5-14)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.55

Plan Sections										
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	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,865.9	5.49	170.91	2,865.3	-17.3	2.8	1.50	1.50	0.00	170.91	
4,141.1	5.49	170.91	4,134.7	-137.7	22.0	0.00	0.00	0.00	0.00	
4,507.0	0.00	0.00	4,500.0	-155.0	24.8	1.50	-1.50	0.00	180.00	
6,783.2	0.00	0.00	6,776.2	-155.0	24.8	0.00	0.00	0.00	0.00	
7,603.8	90.27	0.23	7,297.1	368.3	26.9	11.00	11.00	0.00	0.23	
11,862.0	90.27	0.23	7,277.0	4,626.5	44.4	0.00	0.00	0.00	0.00	BHL 460'FNL & 186

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Project:	SEC.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	North Reference:	True
Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.50									
2,600.0	1.50	170.91	2,600.0	-1.3	0.2	-1.3	1.50	1.50	0.00
2,700.0	3.00	170.91	2,699.9	-5.2	0.8	-5.2	1.50	1.50	0.00
2,800.0	4.50	170.91	2,799.7	-11.6	1.9	-11.6	1.50	1.50	0.00
2,865.9	5.49	170.91	2,865.3	-17.3	2.8	-17.3	1.50	1.50	0.00
2,900.0	5.49	170.91	2,899.3	-20.5	3.3	-20.5	0.00	0.00	0.00
3,000.0	5.49	170.91	2,998.8	-30.0	4.8	-29.9	0.00	0.00	0.00
3,100.0	5.49	170.91	3,098.4	-39.4	6.3	-39.3	0.00	0.00	0.00
3,200.0	5.49	170.91	3,197.9	-48.8	7.8	-48.8	0.00	0.00	0.00
3,300.0	5.49	170.91	3,297.5	-58.3	9.3	-58.2	0.00	0.00	0.00
3,400.0	5.49	170.91	3,397.0	-67.7	10.8	-67.6	0.00	0.00	0.00
3,500.0	5.49	170.91	3,496.5	-77.2	12.3	-77.0	0.00	0.00	0.00
3,600.0	5.49	170.91	3,596.1	-86.6	13.9	-86.5	0.00	0.00	0.00
3,700.0	5.49	170.91	3,695.6	-96.1	15.4	-95.9	0.00	0.00	0.00
3,800.0	5.49	170.91	3,795.2	-105.5	16.9	-105.3	0.00	0.00	0.00
3,900.0	5.49	170.91	3,894.7	-114.9	18.4	-114.8	0.00	0.00	0.00
4,000.0	5.49	170.91	3,994.2	-124.4	19.9	-124.2	0.00	0.00	0.00
4,100.0	5.49	170.91	4,093.8	-133.8	21.4	-133.6	0.00	0.00	0.00
4,141.1	5.49	170.91	4,134.7	-137.7	22.0	-137.5	0.00	0.00	0.00
Start Drop -1.50									
4,200.0	4.60	170.91	4,193.4	-142.8	22.9	-142.6	1.50	-1.50	0.00
4,300.0	3.10	170.91	4,293.1	-149.5	23.9	-149.2	1.50	-1.50	0.00
4,400.0	1.60	170.91	4,393.1	-153.5	24.6	-153.3	1.50	-1.50	0.00
4,500.0	0.10	170.91	4,493.0	-155.0	24.8	-154.7	1.50	-1.50	0.00
4,507.0	0.00	0.00	4,500.0	-155.0	24.8	-154.8	1.50	-1.50	0.00
4,600.0	0.00	0.00	4,593.0	-155.0	24.8	-154.8	0.00	0.00	0.00
4,700.0	0.00	0.00	4,693.0	-155.0	24.8	-154.8	0.00	0.00	0.00

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Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Project:	SEC.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	North Reference:	True
Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
4,800.0	0.00	0.00	4,793.0	-155.0	24.8	-154.8	0.00	0.00	0.00
4,900.0	0.00	0.00	4,893.0	-155.0	24.8	-154.8	0.00	0.00	0.00
5,000.0	0.00	0.00	4,993.0	-155.0	24.8	-154.8	0.00	0.00	0.00
5,100.0	0.00	0.00	5,093.0	-155.0	24.8	-154.8	0.00	0.00	0.00
5,200.0	0.00	0.00	5,193.0	-155.0	24.8	-154.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,293.0	-155.0	24.8	-154.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,393.0	-155.0	24.8	-154.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,493.0	-155.0	24.8	-154.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,593.0	-155.0	24.8	-154.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,693.0	-155.0	24.8	-154.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,793.0	-155.0	24.8	-154.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,893.0	-155.0	24.8	-154.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,993.0	-155.0	24.8	-154.8	0.00	0.00	0.00
6,100.0	0.00	0.00	6,093.0	-155.0	24.8	-154.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,193.0	-155.0	24.8	-154.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,293.0	-155.0	24.8	-154.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,393.0	-155.0	24.8	-154.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,493.0	-155.0	24.8	-154.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,593.0	-155.0	24.8	-154.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,693.0	-155.0	24.8	-154.8	0.00	0.00	0.00
6,783.2	0.00	0.00	6,776.2	-155.0	24.8	-154.8	0.00	0.00	0.00
KOP #2 - Start Build 11.00									
6,800.0	1.85	0.23	6,793.0	-154.7	24.8	-154.5	11.02	11.02	0.00
6,900.0	12.85	0.23	6,892.1	-142.0	24.9	-141.7	11.00	11.00	0.00
7,000.0	23.85	0.23	6,986.8	-110.5	25.0	-110.3	11.00	11.00	0.00
7,100.0	34.85	0.23	7,073.9	-61.6	25.2	-61.3	11.00	11.00	0.00
7,200.0	45.85	0.23	7,149.9	3.1	25.4	3.3	11.00	11.00	0.00
7,300.0	56.85	0.23	7,212.3	81.1	25.8	81.3	11.00	11.00	0.00
7,400.0	67.85	0.23	7,258.6	169.5	26.1	169.7	11.00	11.00	0.00
7,500.0	78.85	0.23	7,287.2	265.2	26.5	265.4	11.00	11.00	0.00
7,600.0	89.85	0.23	7,297.1	364.5	26.9	364.8	11.00	11.00	0.00
7,603.8	90.27	0.23	7,297.1	368.3	26.9	368.6	11.00	11.00	0.00
7"									
7,700.0	90.27	0.23	7,296.6	464.5	27.3	464.8	0.00	0.00	0.00
7,800.0	90.27	0.23	7,296.1	564.5	27.7	564.8	0.00	0.00	0.00
7,900.0	90.27	0.23	7,295.7	664.5	28.2	664.8	0.00	0.00	0.00
8,000.0	90.27	0.23	7,295.2	764.5	28.6	764.8	0.00	0.00	0.00
8,100.0	90.27	0.23	7,294.7	864.5	29.0	864.7	0.00	0.00	0.00
8,200.0	90.27	0.23	7,294.3	964.5	29.4	964.7	0.00	0.00	0.00
8,300.0	90.27	0.23	7,293.8	1,064.5	29.8	1,064.7	0.00	0.00	0.00
8,400.0	90.27	0.23	7,293.3	1,164.5	30.2	1,164.7	0.00	0.00	0.00
8,500.0	90.27	0.23	7,292.8	1,264.5	30.6	1,264.7	0.00	0.00	0.00
8,600.0	90.27	0.23	7,292.4	1,364.5	31.0	1,364.7	0.00	0.00	0.00
8,700.0	90.27	0.23	7,291.9	1,464.5	31.4	1,464.7	0.00	0.00	0.00
8,800.0	90.27	0.23	7,291.4	1,564.5	31.8	1,564.7	0.00	0.00	0.00
8,900.0	90.27	0.23	7,291.0	1,664.5	32.3	1,664.7	0.00	0.00	0.00
9,000.0	90.27	0.23	7,290.5	1,764.5	32.7	1,764.7	0.00	0.00	0.00
9,100.0	90.27	0.23	7,290.0	1,864.5	33.1	1,864.7	0.00	0.00	0.00
9,200.0	90.27	0.23	7,289.5	1,964.5	33.5	1,964.7	0.00	0.00	0.00
9,300.0	90.27	0.23	7,289.1	2,064.5	33.9	2,064.7	0.00	0.00	0.00
9,400.0	90.27	0.23	7,288.6	2,164.5	34.3	2,164.7	0.00	0.00	0.00
9,500.0	90.27	0.23	7,288.1	2,264.5	34.7	2,264.7	0.00	0.00	0.00
9,600.0	90.27	0.23	7,287.7	2,364.5	35.1	2,364.7	0.00	0.00	0.00

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Project:	SEC.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	North Reference:	True
Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	0.23	7,287.2	2,464.5	35.5	2,464.7	0.00	0.00	0.00
9,800.0	90.27	0.23	7,286.7	2,564.5	35.9	2,564.7	0.00	0.00	0.00
9,900.0	90.27	0.23	7,286.2	2,664.5	36.4	2,664.7	0.00	0.00	0.00
10,000.0	90.27	0.23	7,285.8	2,764.5	36.8	2,764.7	0.00	0.00	0.00
10,100.0	90.27	0.23	7,285.3	2,864.5	37.2	2,864.7	0.00	0.00	0.00
10,200.0	90.27	0.23	7,284.8	2,964.5	37.6	2,964.7	0.00	0.00	0.00
10,300.0	90.27	0.23	7,284.4	3,064.5	38.0	3,064.7	0.00	0.00	0.00
10,400.0	90.27	0.23	7,283.9	3,164.5	38.4	3,164.7	0.00	0.00	0.00
10,500.0	90.27	0.23	7,283.4	3,264.5	38.8	3,264.7	0.00	0.00	0.00
10,600.0	90.27	0.23	7,282.9	3,364.5	39.2	3,364.7	0.00	0.00	0.00
10,700.0	90.27	0.23	7,282.5	3,464.5	39.6	3,464.7	0.00	0.00	0.00
10,800.0	90.27	0.23	7,282.0	3,564.5	40.0	3,564.7	0.00	0.00	0.00
10,900.0	90.27	0.23	7,281.5	3,664.5	40.5	3,664.7	0.00	0.00	0.00
11,000.0	90.27	0.23	7,281.1	3,764.5	40.9	3,764.7	0.00	0.00	0.00
11,100.0	90.27	0.23	7,280.6	3,864.5	41.3	3,864.7	0.00	0.00	0.00
11,200.0	90.27	0.23	7,280.1	3,964.5	41.7	3,964.7	0.00	0.00	0.00
11,300.0	90.27	0.23	7,279.6	4,064.4	42.1	4,064.7	0.00	0.00	0.00
11,400.0	90.27	0.23	7,279.2	4,164.4	42.5	4,164.7	0.00	0.00	0.00
11,500.0	90.27	0.23	7,278.7	4,264.4	42.9	4,264.7	0.00	0.00	0.00
11,600.0	90.27	0.23	7,278.2	4,364.4	43.3	4,364.7	0.00	0.00	0.00
11,700.0	90.27	0.23	7,277.8	4,464.4	43.7	4,464.7	0.00	0.00	0.00
11,800.0	90.27	0.23	7,277.3	4,564.4	44.1	4,564.7	0.00	0.00	0.00
11,862.0	90.27	0.23	7,277.0	4,626.4	44.4	4,626.7	0.00	0.00	0.00
TD at 11862.0									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,603.8	7,297.1	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,500.0	2,500.0	0.0	0.0	KOP - Start Build 1.50
4,141.1	4,134.7	-17.3	2.8	Start Drop -1.50
6,783.2	6,776.2	-137.7	22.0	KOP #2 - Start Build 11.00
11,862.0	7,277.0	-155.0	24.8	TD at 11862.0



Verdad Oil & Gas Corporation

SEC.30-T1N-R65W

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

Johnson 01N-65W-30-8N

Wellbore #1

Plan #2 (8-5-14)

Anticollision Report

05 August, 2014

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Reference	Plan #2 (8-5-14)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCSWA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	8/5/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,862.0	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)	Distance 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	11,176.6	7,259.2	49.2	-173.5	0.221	Level 1, CC, ES, SF	
Lehl 1 (P&A) - Wellbore #1 - Wellbore #1	8,681.5	7,287.0	865.2	687.3	4.865	CC	
Lehl 1 (P&A) - Wellbore #1 - Wellbore #1	8,700.0	7,286.9	865.4	687.2	4.858	ES	
Lehl 1 (P&A) - Wellbore #1 - Wellbore #1	8,800.0	7,286.4	873.3	693.4	4.856	SF	
Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W							
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	166.3	167.3	106.5	106.0	202.785	CC	
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	200.0	200.0	106.5	105.8	157.949	ES	
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	5,200.0	5,091.1	994.0	969.8	41.099	SF	
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	366.3	367.3	92.5	91.1	64.950	CC	
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	400.0	400.0	92.5	90.9	58.798	ES	
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	900.0	880.9	134.4	130.6	35.663	SF	
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14)	566.3	567.3	75.7	73.4	32.589	CC	
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14)	600.0	600.0	75.7	73.2	30.626	ES	
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14)	11,862.0	11,905.5	826.2	645.5	4.573	SF	
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8-5-14)	766.3	767.3	61.6	58.4	19.123	CC	
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8-5-14)	800.0	800.0	61.6	58.3	18.280	ES	
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8-5-14)	11,862.0	11,899.4	711.0	530.4	3.938	SF	
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #2 (8-5-14)	1,166.3	1,167.3	44.8	39.8	8.927	CC	
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #2 (8-5-14)	1,200.0	1,201.0	44.8	39.6	8.666	ES	
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #2 (8-5-14)	11,862.0	12,088.1	583.0	412.6	3.422	SF	
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #2 (8-5-14)	1,366.3	1,367.3	30.8	24.9	5.205	CC	
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #2 (8-5-14)	1,400.0	1,401.0	30.8	24.7	5.075	ES	
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #2 (8-5-14)	11,862.0	11,879.2	380.5	200.0	2.108	SF	
Johnson 01N-65W-30-7N - Wellbore #1 - Plan #2 (8-5-14)	1,600.0	1,600.0	16.8	9.8	2.412	CC, ES	
Johnson 01N-65W-30-7N - Wellbore #1 - Plan #2 (8-5-14)	11,862.0	11,868.1	215.3	35.0	1.194	Level 2, SF	
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14)	1,800.0	1,800.0	14.0	6.1	1.780	CC, ES, SF	

[illegible]

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Sec.30-T1N-R65W - Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 8208-UNKNOWN													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,200.0	7,284.8	7,263.8	7,263.8	59.2	145.3	-95.35	3,941.2	-7.6	977.8	774.1	203.67	4.801		
10,300.0	7,284.4	7,263.4	7,263.4	61.1	145.3	-94.80	3,941.2	-7.6	877.9	672.3	205.67	4.269		
10,400.0	7,283.9	7,262.9	7,262.9	62.9	145.3	-94.26	3,941.2	-7.6	778.1	570.5	207.65	3.747		
10,500.0	7,283.4	7,262.4	7,262.4	64.8	145.2	-93.71	3,941.2	-7.6	678.4	468.7	209.63	3.236		
10,600.0	7,282.9	7,261.9	7,261.9	66.7	145.2	-93.16	3,941.2	-7.6	578.7	367.1	211.59	2.735		
10,700.0	7,282.5	7,261.5	7,261.5	68.5	145.2	-92.62	3,941.2	-7.6	479.1	265.6	213.54	2.244		
10,800.0	7,282.0	7,261.0	7,261.0	70.4	145.2	-92.07	3,941.2	-7.6	379.8	164.3	215.47	1.763		
10,900.0	7,281.5	7,260.5	7,260.5	72.2	145.2	-91.52	3,941.2	-7.6	280.9	63.5	217.39	1.292 Level 3		
11,000.0	7,281.1	7,260.1	7,260.1	74.1	145.2	-90.97	3,941.2	-7.6	183.3	-36.0	219.29	0.836 Level 1		
11,100.0	7,280.6	7,259.6	7,259.6	76.0	145.2	-90.42	3,941.2	-7.6	91.0	-130.2	221.18	0.411 Level 1		
11,176.6	7,280.2	7,259.2	7,259.2	77.4	145.2	-90.00	3,941.2	-7.6	49.2	-173.5	222.61	0.221 Level 1, CC, ES, SF		
11,200.0	7,280.1	7,259.1	7,259.1	77.9	145.2	-89.87	3,941.2	-7.6	54.4	-168.6	223.05	0.244 Level 1		
11,300.0	7,279.6	7,258.6	7,258.6	79.7	145.2	-89.32	3,941.2	-7.6	132.8	-92.0	224.90	0.591 Level 1		
11,400.0	7,279.2	7,258.2	7,258.2	81.6	145.2	-88.77	3,941.2	-7.6	228.8	2.0	226.73	1.009 Level 2		
11,500.0	7,278.7	7,257.7	7,257.7	83.5	145.2	-88.22	3,941.2	-7.6	327.1	98.6	228.55	1.431 Level 3		
11,600.0	7,278.2	7,257.2	7,257.2	85.4	145.1	-87.68	3,941.2	-7.6	426.3	195.9	230.34	1.851		
11,700.0	7,277.8	7,256.8	7,256.8	87.3	145.1	-87.13	3,941.2	-7.6	525.7	293.6	232.12	2.265		
11,800.0	7,277.3	7,256.3	7,256.3	89.1	145.1	-86.58	3,941.2	-7.6	625.4	391.5	233.87	2.674		
11,862.0	7,277.0	7,256.0	7,256.0	90.3	145.1	-86.24	3,941.2	-7.6	687.2	452.3	234.95	2.925		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
8,200.0	7,294.3	7,289.3	7,289.3	24.4	145.8	-90.15	1,449.5	-833.8	990.1	819.9	170.23	5.816		
8,300.0	7,293.8	7,288.8	7,288.8	26.0	145.8	-90.12	1,449.5	-833.8	945.5	773.8	171.73	5.506		
8,400.0	7,293.3	7,288.3	7,288.3	27.5	145.8	-90.09	1,449.5	-833.8	909.8	736.5	173.27	5.251		
8,500.0	7,292.8	7,287.8	7,287.8	29.1	145.8	-90.06	1,449.5	-833.8	884.0	709.1	174.86	5.055		
8,600.0	7,292.4	7,287.4	7,287.4	30.7	145.7	-90.03	1,449.5	-833.8	869.0	692.5	176.49	4.924		
8,681.5	7,292.0	7,287.0	7,287.0	32.1	145.7	-90.00	1,449.5	-833.8	865.2	687.3	177.84	4.865 CC		
8,700.0	7,291.9	7,286.9	7,286.9	32.4	145.7	-89.99	1,449.5	-833.8	865.4	687.2	178.15	4.858 ES		
8,800.0	7,291.4	7,286.4	7,286.4	34.1	145.7	-89.96	1,449.5	-833.8	873.3	693.4	179.83	4.856 SF		
8,900.0	7,291.0	7,286.0	7,286.0	35.8	145.7	-89.93	1,449.5	-833.8	892.3	710.8	181.54	4.916		
9,000.0	7,290.5	7,285.5	7,285.5	37.6	145.7	-89.90	1,449.5	-833.8	922.0	738.7	183.26	5.031		
9,100.0	7,290.0	7,285.0	7,285.0	39.3	145.7	-89.87	1,449.5	-833.8	961.1	776.1	185.00	5.195		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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 Reference (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	1.0	1.0	0.0	0.0	-91.96	-91.96	-3.6	-106.4	106.5	106.5	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-91.96	-91.96	-3.6	-106.4	106.5	106.3	0.23	469.136	
166.3	166.3	167.3	167.3	0.3	0.3	-91.96	-91.96	-3.6	-106.4	106.5	106.0	0.53	202.785 CC	
200.0	200.0	200.0	200.0	0.3	0.3	-91.96	-91.96	-3.6	-106.4	106.5	105.8	0.67	157.949 ES	
300.0	300.0	297.4	297.3	0.6	0.5	-92.06	-92.06	-3.9	-108.1	108.2	107.1	1.11	97.722	
400.0	400.0	393.5	393.4	0.8	0.8	-92.33	-92.33	-4.6	-112.9	113.3	111.7	1.55	73.294	
500.0	500.0	489.3	488.8	1.0	1.0	-92.74	-92.74	-5.8	-120.9	121.6	119.6	1.99	61.015	
600.0	600.0	584.4	583.2	1.2	1.3	-93.21	-93.21	-7.4	-131.9	133.3	130.9	2.45	54.430	
700.0	700.0	678.6	676.4	1.5	1.6	-93.72	-93.72	-9.5	-145.9	148.3	145.3	2.91	50.923	
800.0	800.0	774.1	770.4	1.7	1.9	-94.21	-94.21	-12.0	-162.9	166.2	162.8	3.38	49.092	
900.0	900.0	872.4	867.0	1.9	2.3	-94.63	-94.63	-14.6	-180.8	184.6	180.7	3.85	47.913	
1,000.0	1,000.0	970.7	963.5	2.1	2.7	-94.97	-94.97	-17.3	-198.8	203.0	198.7	4.32	46.961	
1,100.0	1,100.0	1,069.0	1,060.1	2.4	3.1	-95.26	-95.26	-20.0	-216.8	221.5	216.7	4.80	46.171	
1,200.0	1,200.0	1,167.3	1,156.7	2.6	3.5	-95.50	-95.50	-22.6	-234.8	240.0	234.7	5.27	45.505	
1,300.0	1,300.0	1,265.5	1,253.3	2.8	3.9	-95.71	-95.71	-25.3	-252.7	258.4	252.7	5.75	44.939	
1,400.0	1,400.0	1,363.8	1,349.9	3.0	4.3	-95.89	-95.89	-27.9	-270.7	276.9	270.7	6.23	44.452	
1,500.0	1,500.0	1,462.1	1,446.5	3.3	4.7	-96.05	-96.05	-30.6	-288.7	295.4	288.7	6.71	44.030	
1,600.0	1,600.0	1,560.4	1,543.0	3.5	5.2	-96.19	-96.19	-33.2	-306.6	313.8	306.6	7.19	43.660	
1,700.0	1,700.0	1,658.6	1,639.6	3.7	5.6	-96.31	-96.31	-35.9	-324.6	332.3	324.6	7.67	43.333	
1,800.0	1,800.0	1,756.9	1,736.2	3.9	6.0	-96.42	-96.42	-38.6	-342.6	350.8	342.6	8.15	43.043	
1,900.0	1,900.0	1,855.2	1,832.8	4.2	6.4	-96.52	-96.52	-41.2	-360.5	369.2	360.6	8.63	42.784	
2,000.0	2,000.0	1,953.5	1,929.4	4.4	6.8	-96.61	-96.61	-43.9	-378.5	387.7	378.6	9.11	42.551	
2,100.0	2,100.0	2,051.7	2,026.0	4.6	7.2	-96.69	-96.69	-46.5	-396.5	406.2	396.6	9.59	42.340	
2,200.0	2,200.0	2,150.0	2,122.5	4.8	7.6	-96.77	-96.77	-49.2	-414.5	424.7	414.6	10.08	42.148	
2,300.0	2,300.0	2,248.3	2,219.1	5.1	8.1	-96.84	-96.84	-51.8	-432.4	443.2	432.6	10.56	41.974	
2,400.0	2,400.0	2,346.6	2,315.7	5.3	8.5	-96.90	-96.90	-54.5	-450.4	461.6	450.6	11.04	41.813	
2,500.0	2,500.0	2,444.9	2,412.3	5.5	8.9	-96.96	-96.96	-57.1	-468.4	480.1	468.6	11.52	41.666	
2,600.0	2,600.0	2,543.1	2,508.9	5.7	9.3	-97.05	-97.05	-59.8	-486.3	498.6	486.8	11.81	42.216	
2,700.0	2,699.9	2,641.3	2,605.4	5.9	9.7	-97.15	-97.15	-62.5	-504.3	517.3	505.0	12.23	42.293	
2,800.0	2,799.7	2,739.4	2,701.7	6.0	10.1	-97.25	-97.25	-65.1	-522.2	536.0	523.4	12.66	42.355	
2,900.0	2,899.3	2,837.2	2,797.9	6.2	10.5	-97.38	-97.38	-67.8	-540.1	555.0	541.9	13.09	42.395	
3,000.0	2,998.8	2,935.0	2,894.0	6.4	11.0	-97.50	-97.50	-70.4	-558.0	574.1	560.5	13.54	42.403	
3,100.0	3,098.4	3,032.8	2,990.1	6.6	11.4	-97.63	-97.63	-73.0	-575.9	593.3	579.3	14.00	42.388	
3,200.0	3,197.9	3,130.6	3,086.2	6.8	11.8	-97.78	-97.78	-75.7	-593.8	612.6	598.2	14.46	42.356	
3,300.0	3,297.5	3,228.4	3,182.4	7.0	12.2	-97.91	-97.91	-78.3	-611.6	632.0	617.1	14.94	42.309	
3,400.0	3,397.0	3,326.2	3,278.5	7.2	12.6	-98.05	-98.05	-81.0	-629.5	651.6	636.1	15.42	42.251	
3,500.0	3,496.5	3,424.0	3,374.6	7.5	13.0	-98.18	-98.18	-83.6	-647.4	671.1	655.2	15.91	42.183	
3,600.0	3,596.1	3,521.8	3,470.7	7.7	13.4	-98.32	-98.32	-86.3	-665.3	690.8	674.4	16.41	42.108	
3,700.0	3,695.6	3,619.7	3,566.8	7.9	13.8	-98.46	-98.46	-88.9	-683.2	710.5	693.6	16.91	42.027	
3,800.0	3,795.2	3,717.5	3,663.0	8.1	14.3	-98.60	-98.60	-91.6	-701.1	730.3	712.9	17.41	41.941	
3,900.0	3,894.7	3,815.3	3,759.1	8.4	14.7	-98.75	-98.75	-94.2	-719.0	750.2	732.3	17.92	41.853	
4,000.0	3,994.2	3,913.1	3,855.2	8.6	15.1	-100.13	-100.13	-96.8	-736.8	770.1	751.6	18.44	41.763	
4,100.0	4,093.8	4,010.9	3,951.3	8.9	15.5	-100.58	-100.58	-99.5	-754.7	790.0	771.1	18.96	41.672	
4,200.0	4,193.4	4,108.7	4,047.5	9.1	15.9	-101.15	-101.15	-102.1	-772.6	809.9	790.4	19.49	41.555	
4,300.0	4,293.1	4,206.8	4,143.8	9.3	16.3	-101.65	-101.65	-104.8	-790.5	829.4	809.4	20.02	41.435	
4,400.0	4,393.1	4,304.9	4,240.3	9.6	16.7	-102.16	-102.16	-107.4	-808.5	848.4	827.8	20.53	41.331	
4,500.0	4,493.0	4,403.2	4,336.9	9.8	17.2	-102.69	-102.69	-110.1	-826.5	866.8	845.8	21.01	41.258	
4,600.0	4,593.0	4,501.5	4,433.5	10.0	17.6	-103.22	-103.22	-112.7	-844.4	884.9	863.5	21.45	41.263	
4,700.0	4,693.0	4,599.8	4,530.1	10.2	18.0	-103.74	-103.74	-115.4	-862.4	903.1	881.2	21.90	41.235	
4,800.0	4,793.0	4,698.0	4,626.6	10.4	18.4	-104.26	-104.26	-118.1	-880.4	921.3	898.9	22.36	41.207	
4,900.0	4,893.0	4,796.3	4,723.2	10.6	18.8	-104.77	-104.77	-120.7	-898.3	939.4	916.6	22.81	41.180	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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
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)	Separation Factor	Warning
5,000.0	4,993.0	4,894.6	4,819.8	10.8	19.2	-88.08	-123.4	-916.3	957.6	934.4	23.27	41.152	
5,100.0	5,093.0	4,992.9	4,916.4	11.0	19.7	-88.27	-126.0	-934.3	975.8	952.1	23.73	41.125	
5,200.0	5,193.0	5,091.1	5,013.0	11.2	20.1	-88.46	-128.7	-952.3	994.0	969.8	24.19	41.099 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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	1.0	1.0	0.0	0.0	-92.26	-92.26	-3.6	-92.4	92.5	92.5	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-92.26	-92.26	-3.6	-92.4	92.5	92.3	0.23	407.485	
200.0	200.0	201.0	201.0	0.3	0.3	-92.26	-92.26	-3.6	-92.4	92.5	91.8	0.68	136.731	
300.0	300.0	301.0	301.0	0.6	0.6	-92.26	-92.26	-3.6	-92.4	92.5	91.4	1.13	82.148	
366.3	366.3	367.3	367.3	0.7	0.7	-92.26	-92.26	-3.6	-92.4	92.5	91.1	1.42	64.950 CC	
400.0	400.0	400.0	400.0	0.8	0.8	-92.26	-92.26	-3.6	-92.4	92.5	90.9	1.57	58.798 ES	
500.0	500.0	497.8	497.8	1.0	1.0	-92.39	-92.39	-3.9	-94.1	94.2	92.2	2.00	47.006	
600.0	600.0	594.5	594.3	1.2	1.2	-92.74	-92.74	-4.7	-98.9	99.3	96.8	2.43	40.818	
700.0	700.0	690.7	690.2	1.5	1.4	-93.26	-93.26	-6.1	-107.0	107.7	104.8	2.87	37.520	
800.0	800.0	786.2	785.0	1.7	1.7	-93.85	-93.85	-8.0	-118.1	119.4	116.1	3.32	36.009	
900.0	900.0	880.9	878.6	1.9	2.0	-94.46	-94.46	-10.3	-132.1	134.4	130.6	3.77	35.663 SF	
1,000.0	1,000.0	977.3	973.5	2.1	2.3	-95.05	-95.05	-13.2	-149.1	152.2	147.9	4.23	35.949	
1,100.0	1,100.0	1,075.7	1,070.2	2.4	2.7	-95.52	-95.52	-16.1	-166.6	170.2	165.5	4.69	36.264	
1,200.0	1,200.0	1,174.0	1,167.0	2.6	3.0	-95.91	-95.91	-19.1	-184.2	188.3	183.1	5.16	36.497	
1,300.0	1,300.0	1,272.4	1,263.7	2.8	3.4	-96.23	-96.23	-22.0	-201.8	206.4	200.8	5.63	36.673	
1,400.0	1,400.0	1,370.7	1,360.4	3.0	3.8	-96.50	-96.50	-25.0	-219.3	224.5	218.4	6.10	36.807	
1,500.0	1,500.0	1,469.1	1,457.1	3.3	4.2	-96.72	-96.72	-27.9	-236.9	242.6	236.0	6.57	36.912	
1,600.0	1,600.0	1,567.4	1,553.8	3.5	4.6	-96.92	-96.92	-30.9	-254.5	260.6	253.6	7.05	36.996	
1,700.0	1,700.0	1,665.7	1,650.6	3.7	5.0	-97.09	-97.09	-33.8	-272.0	278.7	271.2	7.52	37.064	
1,800.0	1,800.0	1,764.1	1,747.3	3.9	5.4	-97.24	-97.24	-36.8	-289.6	296.8	288.8	8.00	37.120	
1,900.0	1,900.0	1,862.4	1,844.0	4.2	5.8	-97.37	-97.37	-39.7	-307.2	314.9	306.5	8.47	37.166	
2,000.0	2,000.0	1,960.8	1,940.7	4.4	6.2	-97.49	-97.49	-42.7	-324.7	333.0	324.1	8.95	37.205	
2,100.0	2,100.0	2,059.1	2,037.4	4.6	6.6	-97.60	-97.60	-45.6	-342.3	351.1	341.7	9.43	37.238	
2,200.0	2,200.0	2,157.5	2,134.2	4.8	7.0	-97.69	-97.69	-48.6	-359.9	369.2	359.3	9.91	37.266	
2,300.0	2,300.0	2,255.8	2,230.9	5.1	7.4	-97.78	-97.78	-51.6	-377.4	387.3	376.9	10.39	37.290	
2,400.0	2,400.0	2,354.2	2,327.6	5.3	7.8	-97.86	-97.86	-54.5	-395.0	405.4	394.6	10.87	37.311	
2,500.0	2,500.0	2,452.5	2,424.3	5.5	8.2	-97.93	-97.93	-57.5	-412.6	423.5	412.2	11.35	37.330	
2,600.0	2,600.0	2,550.9	2,521.0	5.7	8.6	-98.00	-98.00	-60.4	-430.1	441.7	430.0	11.66	37.877	
2,700.0	2,699.9	2,649.1	2,617.7	5.9	9.1	-98.06	-98.06	-63.4	-447.7	459.9	447.8	12.08	38.075	
2,800.0	2,799.7	2,747.3	2,714.2	6.0	9.5	-98.11	-98.11	-66.3	-465.2	478.1	465.6	12.50	38.247	
2,900.0	2,899.3	2,845.2	2,810.5	6.2	9.9	-98.16	-98.16	-69.3	-482.7	496.6	483.7	12.94	38.390	
3,000.0	2,998.8	2,943.1	2,906.8	6.4	10.3	-98.20	-98.20	-72.2	-500.2	515.2	501.8	13.38	38.499	
3,100.0	3,098.4	3,041.0	3,003.1	6.6	10.7	-98.24	-98.24	-75.1	-517.7	533.9	520.1	13.84	38.583	
3,200.0	3,197.9	3,139.0	3,099.4	6.8	11.1	-98.28	-98.28	-78.1	-535.2	552.8	538.5	14.30	38.644	
3,300.0	3,297.5	3,236.9	3,195.7	7.0	11.5	-98.32	-98.32	-81.0	-552.7	571.7	557.0	14.78	38.687	
3,400.0	3,397.0	3,334.8	3,292.0	7.2	11.9	-98.36	-98.36	-84.0	-570.1	590.8	575.5	15.26	38.714	
3,500.0	3,496.5	3,432.7	3,388.3	7.5	12.3	-98.40	-98.40	-86.9	-587.6	609.9	594.2	15.75	38.727	
3,600.0	3,596.1	3,530.6	3,484.6	7.7	12.7	-98.44	-98.44	-89.8	-605.1	629.1	612.9	16.24	38.730	
3,700.0	3,695.6	3,628.5	3,580.9	7.9	13.1	-98.48	-98.48	-92.8	-622.6	648.4	631.7	16.74	38.724	
3,800.0	3,795.2	3,726.4	3,677.1	8.1	13.5	-98.52	-98.52	-95.7	-640.1	667.7	650.5	17.25	38.709	
3,900.0	3,894.7	3,824.3	3,773.4	8.4	13.9	-98.56	-98.56	-98.7	-657.6	687.1	669.4	17.76	38.689	
4,000.0	3,994.2	3,922.2	3,869.7	8.6	14.3	-98.60	-98.60	-101.6	-675.1	706.6	688.3	18.28	38.663	
4,100.0	4,093.8	4,020.1	3,966.0	8.9	14.7	-98.64	-98.64	-104.5	-692.5	726.1	707.3	18.79	38.633	
4,200.0	4,193.4	4,118.1	4,062.3	9.1	15.2	-98.68	-98.68	-107.5	-710.0	745.5	726.2	19.32	38.579	
4,300.0	4,293.1	4,216.2	4,158.9	9.3	15.6	-98.72	-98.72	-110.4	-727.6	764.6	744.7	19.85	38.520	
4,400.0	4,393.1	4,314.5	4,255.5	9.6	16.0	-98.76	-98.76	-113.4	-745.1	783.1	762.7	20.35	38.473	
4,500.0	4,493.0	4,412.8	4,352.2	9.8	16.4	-98.80	-98.80	-116.3	-762.7	801.1	780.3	20.83	38.450	
4,600.0	4,593.0	4,511.2	4,448.9	10.0	16.8	-98.84	-98.84	-119.3	-780.2	818.8	797.5	21.27	38.495	
4,700.0	4,693.0	4,609.5	4,545.6	10.2	17.2	-98.88	-98.88	-122.2	-797.8	836.5	814.8	21.72	38.508	
4,800.0	4,793.0	4,707.9	4,642.4	10.4	17.6	-98.92	-98.92	-125.2	-815.4	854.3	832.1	22.18	38.519	
4,900.0	4,893.0	4,806.2	4,739.1	10.6	18.0	-98.96	-98.96	-128.1	-832.9	872.0	849.4	22.63	38.530	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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
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)	Separation Factor	Warning
5,000.0	4,993.0	4,904.5	4,835.8	10.8	18.4	-88.43	-131.1	-850.5	889.8	866.7	23.09	38.539	
5,100.0	5,093.0	5,002.9	4,932.5	11.0	18.8	-88.66	-134.0	-868.1	907.6	884.1	23.55	38.548	
5,200.0	5,193.0	5,101.2	5,029.2	11.2	19.3	-88.87	-137.0	-885.6	925.4	901.4	24.00	38.555	
5,300.0	5,293.0	5,199.6	5,126.0	11.4	19.7	-89.07	-139.9	-903.2	943.2	918.8	24.46	38.562	
5,400.0	5,393.0	5,297.9	5,222.7	11.6	20.1	-89.27	-142.9	-920.8	961.0	936.1	24.92	38.568	
5,500.0	5,493.0	5,396.3	5,319.4	11.9	20.5	-89.46	-145.8	-938.3	978.9	953.5	25.38	38.573	
5,600.0	5,593.0	5,494.6	5,416.1	12.1	20.9	-89.64	-148.8	-955.9	996.7	970.9	25.84	38.577	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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 (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	1.0	1.0	0.0	0.0	-92.76	-92.76	-3.6	-75.6	75.7	75.7	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-92.76	-92.76	-3.6	-75.6	75.7	75.5	0.23	333.524	
200.0	200.0	201.0	201.0	0.3	0.3	-92.76	-92.76	-3.6	-75.6	75.7	75.0	0.68	111.914	
300.0	300.0	301.0	301.0	0.6	0.6	-92.76	-92.76	-3.6	-75.6	75.7	74.6	1.13	67.237	
400.0	400.0	401.0	401.0	0.8	0.8	-92.76	-92.76	-3.6	-75.6	75.7	74.1	1.58	48.054	
500.0	500.0	501.0	501.0	1.0	1.0	-92.76	-92.76	-3.6	-75.6	75.7	73.7	2.03	37.387	
566.3	566.3	567.3	567.3	1.2	1.2	-92.76	-92.76	-3.6	-75.6	75.7	73.4	2.32	32.589 CC	
600.0	600.0	600.0	600.0	1.2	1.2	-92.76	-92.76	-3.6	-75.6	75.7	73.2	2.47	30.626 ES	
700.0	700.0	698.4	698.4	1.5	1.4	-92.96	-92.96	-4.0	-77.3	77.4	74.5	2.90	26.672	
800.0	800.0	795.6	795.4	1.7	1.6	-93.51	-93.51	-5.0	-82.2	82.5	79.2	3.33	24.805	
900.0	900.0	892.3	891.8	1.9	1.9	-94.29	-94.29	-6.8	-90.2	90.9	87.2	3.76	24.198	
1,000.0	1,000.0	988.4	987.2	2.1	2.1	-95.16	-95.16	-9.2	-101.3	102.7	98.5	4.20	24.467	
1,100.0	1,100.0	1,086.1	1,083.9	2.4	2.4	-96.01	-96.01	-12.1	-115.2	117.1	112.4	4.65	25.202	
1,200.0	1,200.0	1,185.0	1,181.7	2.6	2.7	-96.69	-96.69	-15.2	-129.4	131.7	126.6	5.09	25.854	
1,300.0	1,300.0	1,283.9	1,279.6	2.8	3.0	-97.23	-97.23	-18.2	-143.6	146.3	140.8	5.55	26.384	
1,400.0	1,400.0	1,382.8	1,377.4	3.0	3.3	-97.67	-97.67	-21.3	-157.8	161.0	155.0	6.00	26.821	
1,500.0	1,500.0	1,481.8	1,475.2	3.3	3.6	-98.04	-98.04	-24.3	-172.0	175.6	169.2	6.46	27.187	
1,600.0	1,600.0	1,580.7	1,573.1	3.5	4.0	-98.36	-98.36	-27.4	-186.3	190.3	183.4	6.92	27.497	
1,700.0	1,700.0	1,679.6	1,670.9	3.7	4.3	-98.62	-98.62	-30.4	-200.5	205.0	197.6	7.38	27.763	
1,800.0	1,800.0	1,778.5	1,768.8	3.9	4.7	-98.86	-98.86	-33.5	-214.7	219.7	211.8	7.85	27.993	
1,900.0	1,900.0	1,877.4	1,866.6	4.2	5.0	-99.06	-99.06	-36.5	-228.9	234.3	226.0	8.31	28.195	
2,000.0	2,000.0	1,976.3	1,964.4	4.4	5.4	-99.24	-99.24	-39.5	-243.1	249.0	240.2	8.78	28.372	
2,100.0	2,100.0	2,075.2	2,062.3	4.6	5.7	-99.40	-99.40	-42.6	-257.3	263.7	254.5	9.24	28.529	
2,200.0	2,200.0	2,174.2	2,160.1	4.8	6.0	-99.54	-99.54	-45.6	-271.6	278.4	268.7	9.71	28.670	
2,300.0	2,300.0	2,273.1	2,258.0	5.1	6.4	-99.67	-99.67	-48.7	-285.8	293.1	282.9	10.18	28.796	
2,400.0	2,400.0	2,372.0	2,355.8	5.3	6.7	-99.78	-99.78	-51.7	-300.0	307.8	297.1	10.65	28.910	
2,500.0	2,500.0	2,470.9	2,453.6	5.5	7.1	-99.89	-99.89	-54.8	-314.2	322.4	311.3	11.11	29.014	
2,600.0	2,600.0	2,569.8	2,551.5	5.7	7.5	-99.91	-99.91	-57.8	-328.4	337.1	325.6	11.47	29.400	
2,700.0	2,699.9	2,668.7	2,649.3	5.9	7.8	-99.93	-99.93	-60.9	-342.6	351.8	339.9	11.88	29.620	
2,800.0	2,799.7	2,767.4	2,746.9	6.0	8.2	-99.93	-99.93	-63.9	-356.8	366.4	354.1	12.29	29.811	
2,900.0	2,899.3	2,866.0	2,844.5	6.2	8.5	-99.93	-99.93	-67.0	-371.0	381.2	368.5	12.72	29.975	
3,000.0	2,998.8	2,964.5	2,941.9	6.4	8.9	-99.93	-99.93	-70.0	-385.1	396.2	383.1	13.16	30.115	
3,100.0	3,098.4	3,063.1	3,039.4	6.6	9.2	-99.93	-99.93	-73.0	-399.3	411.4	397.8	13.61	30.235	
3,200.0	3,197.9	3,161.6	3,136.8	6.8	9.6	-99.93	-99.93	-76.1	-413.5	426.7	412.6	14.07	30.338	
3,300.0	3,297.5	3,260.1	3,234.3	7.0	9.9	-99.93	-99.93	-79.1	-427.6	442.1	427.6	14.53	30.425	
3,400.0	3,397.0	3,358.7	3,331.8	7.2	10.3	-99.93	-99.93	-82.1	-441.8	457.7	442.7	15.01	30.500	
3,500.0	3,496.5	3,457.2	3,429.2	7.5	10.6	-99.93	-99.93	-85.2	-456.0	473.3	457.8	15.49	30.563	
3,600.0	3,596.1	3,555.7	3,526.7	7.7	11.0	-99.93	-99.93	-88.2	-470.1	489.1	473.1	15.97	30.616	
3,700.0	3,695.6	3,654.3	3,624.2	7.9	11.3	-99.93	-99.93	-91.2	-484.3	504.9	488.4	16.47	30.661	
3,800.0	3,795.2	3,752.8	3,721.6	8.1	11.7	-99.93	-99.93	-94.3	-498.4	520.8	503.8	16.97	30.699	
3,900.0	3,894.7	3,851.4	3,819.1	8.4	12.0	-99.93	-99.93	-97.3	-512.6	536.8	519.3	17.47	30.730	
4,000.0	3,994.2	3,949.9	3,916.6	8.6	12.4	-99.93	-99.93	-100.3	-526.8	552.8	534.8	17.97	30.755	
4,100.0	4,093.8	4,048.4	4,014.0	8.9	12.8	-99.93	-99.93	-103.4	-540.9	568.9	550.4	18.49	30.776	
4,200.0	4,193.4	4,147.0	4,111.5	9.1	13.1	-99.93	-99.93	-106.4	-555.1	585.0	566.0	19.01	30.780	
4,300.0	4,293.1	4,245.7	4,209.2	9.3	13.5	-99.93	-99.93	-109.5	-569.3	600.6	581.1	19.51	30.776	
4,400.0	4,393.1	4,344.6	4,307.0	9.6	13.8	-99.93	-99.93	-112.5	-583.5	615.6	595.6	20.01	30.773	
4,500.0	4,493.0	4,443.5	4,404.8	9.8	14.2	-99.93	-99.93	-115.6	-597.7	630.1	609.6	20.47	30.781	
4,600.0	4,593.0	4,542.4	4,502.7	10.0	14.5	-99.93	-99.93	-118.6	-611.9	644.3	623.4	20.90	30.825	
4,700.0	4,693.0	4,641.3	4,600.5	10.2	14.9	-99.93	-99.93	-121.6	-626.1	658.5	637.1	21.35	30.846	
4,800.0	4,793.0	4,740.2	4,698.3	10.4	15.3	-99.93	-99.93	-124.7	-640.4	672.7	650.9	21.79	30.867	
4,900.0	4,893.0	4,839.2	4,796.2	10.6	15.6	-99.93	-99.93	-127.7	-654.6	686.9	664.7	22.24	30.887	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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	4,993.0	4,938.1	4,894.0	10.8	16.0	-88.00	-130.8	-668.8	701.2	678.5	22.69	30.906		
5,100.0	5,093.0	5,037.0	4,991.9	11.0	16.3	-88.29	-133.8	-683.0	715.5	692.3	23.14	30.924		
5,200.0	5,193.0	5,135.9	5,089.7	11.2	16.7	-88.56	-136.9	-697.2	729.7	706.2	23.58	30.941		
5,300.0	5,293.0	5,234.8	5,187.5	11.4	17.0	-88.83	-139.9	-711.4	744.1	720.0	24.03	30.958		
5,400.0	5,393.0	5,333.7	5,285.4	11.6	17.4	-89.08	-143.0	-725.7	758.4	733.9	24.48	30.973		
5,500.0	5,493.0	5,432.6	5,383.2	11.9	17.8	-89.33	-146.0	-739.9	772.7	747.8	24.94	30.988		
5,600.0	5,593.0	5,531.6	5,481.1	12.1	18.1	-89.56	-149.1	-754.1	787.1	761.7	25.39	31.002		
5,700.0	5,693.0	5,630.5	5,578.9	12.3	18.5	-89.79	-152.1	-768.3	801.4	775.6	25.84	31.016		
5,800.0	5,793.0	5,767.5	5,714.8	12.5	18.8	-90.05	-155.7	-784.8	813.5	787.2	26.32	30.909		
5,900.0	5,893.0	5,905.8	5,852.7	12.7	19.1	-90.20	-157.8	-795.0	820.9	794.1	26.77	30.661		
6,000.0	5,993.0	6,044.8	5,991.7	12.9	19.3	-90.25	-158.6	-798.7	823.5	796.3	27.22	30.255		
6,100.0	6,093.0	6,147.1	6,094.0	13.1	19.4	-90.25	-158.6	-798.7	823.5	795.9	27.62	29.820		
6,200.0	6,193.0	6,247.1	6,194.0	13.3	19.6	-90.25	-158.6	-798.7	823.5	795.5	28.01	29.401		
6,300.0	6,293.0	6,347.1	6,294.0	13.6	19.7	-90.25	-158.6	-798.7	823.5	795.1	28.41	28.991		
6,400.0	6,393.0	6,447.1	6,394.0	13.8	19.9	-90.25	-158.6	-798.7	823.5	794.7	28.80	28.592		
6,500.0	6,493.0	6,547.1	6,494.0	14.0	20.0	-90.25	-158.6	-798.7	823.5	794.3	29.20	28.201		
6,600.0	6,593.0	6,647.1	6,594.0	14.2	20.2	-90.25	-158.6	-798.7	823.5	793.9	29.60	27.820		
6,700.0	6,693.0	6,747.1	6,694.0	14.4	20.3	-90.25	-158.6	-798.7	823.5	793.5	30.00	27.448		
6,760.1	6,753.1	6,807.2	6,754.1	14.5	20.4	-90.53	-158.6	-798.7	823.5	793.3	30.25	27.223		
6,800.0	6,793.0	6,847.4	6,794.2	14.6	20.5	-90.49	-158.4	-798.7	823.5	793.1	30.41	27.078		
6,900.0	6,892.1	6,948.6	6,894.5	14.8	20.6	-90.48	-145.3	-798.7	823.5	792.8	30.74	26.792		
7,000.0	6,986.8	7,049.8	6,990.3	14.9	20.7	-90.45	-113.1	-798.6	823.6	792.6	30.97	26.590		
7,100.0	7,073.9	7,150.9	7,078.0	15.1	20.7	-90.40	-63.0	-798.4	823.6	792.4	31.18	26.410		
7,200.0	7,149.9	7,251.9	7,154.2	15.2	20.8	-90.34	2.9	-798.2	823.6	792.1	31.48	26.166		
7,300.0	7,212.3	7,352.7	7,216.3	15.5	20.8	-90.26	82.1	-797.9	823.6	791.7	31.96	25.768		
7,400.0	7,258.6	7,453.3	7,261.9	15.9	21.0	-90.18	171.5	-797.6	823.7	790.9	32.74	25.156		
7,500.0	7,287.2	7,553.6	7,289.4	16.4	21.2	-90.09	267.9	-797.2	823.7	789.9	33.87	24.323		
7,600.0	7,297.1	7,653.7	7,298.0	17.2	21.6	-90.00	367.5	-796.9	823.8	788.5	35.33	23.318		
7,700.0	7,296.6	7,753.7	7,297.6	18.1	22.1	-90.00	467.4	-796.5	823.8	786.7	37.12	22.196		
7,800.0	7,296.1	7,853.7	7,297.1	19.2	22.9	-90.00	567.4	-796.1	823.9	784.7	39.18	21.027		
7,900.0	7,295.7	7,953.7	7,296.6	20.3	23.8	-90.00	667.4	-795.8	824.0	782.5	41.50	19.855		
8,000.0	7,295.2	8,053.7	7,296.2	21.6	24.9	-90.00	767.4	-795.4	824.0	780.0	44.03	18.716		
8,100.0	7,294.7	8,153.7	7,295.7	23.0	26.1	-90.00	867.4	-795.1	824.1	777.3	46.73	17.634		
8,200.0	7,294.3	8,253.7	7,295.2	24.4	27.3	-90.00	967.4	-794.7	824.1	774.5	49.59	16.620		
8,300.0	7,293.8	8,353.7	7,294.7	26.0	28.7	-90.00	1,067.4	-794.4	824.2	771.6	52.56	15.680		
8,400.0	7,293.3	8,453.7	7,294.3	27.5	30.1	-90.00	1,167.4	-794.0	824.2	768.6	55.64	14.812		
8,500.0	7,292.8	8,553.7	7,293.8	29.1	31.6	-90.00	1,267.4	-793.7	824.3	765.5	58.81	14.015		
8,600.0	7,292.4	8,653.7	7,293.3	30.7	33.1	-90.00	1,367.4	-793.3	824.3	762.3	62.06	13.283		
8,700.0	7,291.9	8,753.7	7,292.9	32.4	34.6	-90.00	1,467.4	-792.9	824.4	759.0	65.36	12.612		
8,800.0	7,291.4	8,853.7	7,292.4	34.1	36.2	-90.00	1,567.4	-792.6	824.4	755.7	68.73	11.996		
8,900.0	7,291.0	8,953.7	7,291.9	35.8	37.8	-90.00	1,667.4	-792.2	824.5	752.4	72.13	11.430		
9,000.0	7,290.5	9,053.7	7,291.4	37.6	39.5	-90.00	1,767.4	-791.9	824.5	749.0	75.58	10.909		
9,100.0	7,290.0	9,153.7	7,291.0	39.3	41.2	-90.00	1,867.4	-791.5	824.6	745.5	79.06	10.429		
9,200.0	7,289.5	9,253.7	7,290.5	41.1	42.9	-90.00	1,967.4	-791.2	824.7	742.1	82.58	9.986		
9,300.0	7,289.1	9,353.7	7,290.0	42.8	44.6	-90.00	2,067.4	-790.8	824.7	738.6	86.12	9.576		
9,400.0	7,288.6	9,453.7	7,289.6	44.6	46.3	-90.00	2,167.4	-790.5	824.8	735.1	89.68	9.196		
9,500.0	7,288.1	9,553.7	7,289.1	46.4	48.0	-90.00	2,267.4	-790.1	824.8	731.6	93.27	8.844		
9,600.0	7,287.7	9,653.7	7,288.6	48.2	49.8	-90.00	2,367.4	-789.7	824.9	728.0	96.87	8.515		
9,700.0	7,287.2	9,753.7	7,288.1	50.1	51.6	-90.00	2,467.4	-789.4	824.9	724.4	100.49	8.209		
9,800.0	7,286.7	9,853.7	7,287.7	51.9	53.3	-90.00	2,567.4	-789.0	825.0	720.9	104.13	7.923		
9,900.0	7,286.2	9,953.7	7,287.2	53.7	55.1	-90.00	2,667.4	-788.7	825.0	717.3	107.78	7.655		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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	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	7,285.8	10,053.7	7,286.7	55.5	56.9	-90.00	2,767.4	-788.3	825.1	713.7	111.44	7.404	
10,100.0	7,285.3	10,153.7	7,286.3	57.4	58.7	-90.00	2,867.4	-788.0	825.1	710.0	115.11	7.168	
10,200.0	7,284.8	10,253.7	7,285.8	59.2	60.5	-90.00	2,967.4	-787.6	825.2	706.4	118.79	6.947	
10,300.0	7,284.4	10,353.7	7,285.3	61.1	62.3	-90.00	3,067.4	-787.2	825.3	702.8	122.48	6.738	
10,400.0	7,283.9	10,453.7	7,284.8	62.9	64.2	-90.00	3,167.4	-786.9	825.3	699.1	126.18	6.541	
10,500.0	7,283.4	10,553.7	7,284.4	64.8	66.0	-90.00	3,267.4	-786.5	825.4	695.5	129.88	6.355	
10,600.0	7,282.9	10,653.7	7,283.9	66.7	67.8	-90.00	3,367.4	-786.2	825.4	691.8	133.60	6.178	
10,700.0	7,282.5	10,753.7	7,283.4	68.5	69.6	-90.00	3,467.4	-785.8	825.5	688.2	137.32	6.011	
10,800.0	7,282.0	10,853.7	7,283.0	70.4	71.5	-90.00	3,567.4	-785.5	825.5	684.5	141.04	5.853	
10,900.0	7,281.5	10,953.7	7,282.5	72.2	73.3	-90.00	3,667.4	-785.1	825.6	680.8	144.77	5.703	
11,000.0	7,281.1	11,053.7	7,282.0	74.1	75.2	-90.00	3,767.4	-784.8	825.6	677.1	148.51	5.560	
11,100.0	7,280.6	11,153.7	7,281.5	76.0	77.0	-90.00	3,867.4	-784.4	825.7	673.4	152.25	5.423	
11,200.0	7,280.1	11,253.7	7,281.1	77.9	78.9	-90.00	3,967.4	-784.0	825.7	669.7	155.99	5.294	
11,300.0	7,279.6	11,353.7	7,280.6	79.7	80.7	-90.00	4,067.4	-783.7	825.8	666.1	159.74	5.170	
11,400.0	7,279.2	11,453.7	7,280.1	81.6	82.6	-90.00	4,167.4	-783.3	825.8	662.4	163.49	5.051	
11,500.0	7,278.7	11,553.7	7,279.7	83.5	84.4	-90.00	4,267.4	-783.0	825.9	658.7	167.25	4.938	
11,600.0	7,278.2	11,653.7	7,279.2	85.4	86.3	-90.00	4,367.4	-782.6	826.0	654.9	171.00	4.830	
11,700.0	7,277.8	11,753.7	7,278.7	87.3	88.2	-90.00	4,467.4	-782.3	826.0	651.2	174.77	4.726	
11,800.0	7,277.3	11,853.7	7,278.2	89.1	90.0	-90.00	4,567.4	-781.9	826.1	647.5	178.53	4.627	
11,829.8	7,277.2	11,883.5	7,278.1	89.7	90.6	-90.00	4,597.2	-781.8	826.1	646.4	179.65	4.598	
11,862.0	7,277.0	11,905.5	7,278.0	90.3	91.0	-90.00	4,619.2	-781.7	826.2	645.5	180.67	4.573 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-4N - 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)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	-90.00	-90.00	0.0	-61.6	61.6	61.6	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-90.00	-90.00	0.0	-61.6	61.6	61.4	0.23	271.446	
200.0	200.0	201.0	201.0	0.3	0.3	-90.00	-90.00	0.0	-61.6	61.6	60.9	0.68	91.083	
300.0	300.0	301.0	301.0	0.6	0.6	-90.00	-90.00	0.0	-61.6	61.6	60.5	1.13	54.723	
400.0	400.0	401.0	401.0	0.8	0.8	-90.00	-90.00	0.0	-61.6	61.6	60.0	1.58	39.110	
500.0	500.0	501.0	501.0	1.0	1.0	-90.00	-90.00	0.0	-61.6	61.6	59.6	2.03	30.428	
600.0	600.0	601.0	601.0	1.2	1.2	-90.00	-90.00	0.0	-61.6	61.6	59.1	2.47	24.901	
700.0	700.0	701.0	701.0	1.5	1.5	-90.00	-90.00	0.0	-61.6	61.6	58.7	2.92	21.073	
766.3	766.3	767.3	767.3	1.6	1.6	-90.00	-90.00	0.0	-61.6	61.6	58.4	3.22	19.123 CC	
800.0	800.0	800.0	800.0	1.7	1.7	-90.00	-90.00	0.0	-61.6	61.6	58.3	3.37	18.280 ES	
900.0	900.0	898.9	898.9	1.9	1.9	-90.38	-90.38	-0.4	-63.3	63.3	59.5	3.80	16.653	
1,000.0	1,000.0	996.6	996.4	2.1	2.1	-91.40	-91.40	-1.7	-68.2	68.3	64.1	4.22	16.186	
1,100.0	1,100.0	1,093.8	1,093.3	2.4	2.3	-92.80	-92.80	-3.7	-76.2	76.7	72.0	4.65	16.495	
1,200.0	1,200.0	1,190.4	1,189.2	2.6	2.5	-94.30	-94.30	-6.6	-87.4	88.4	83.3	5.08	17.388	
1,300.0	1,300.0	1,288.2	1,285.9	2.8	2.8	-95.70	-95.70	-10.1	-101.2	102.8	97.3	5.53	18.601	
1,400.0	1,400.0	1,387.0	1,383.7	3.0	3.1	-96.78	-96.78	-13.7	-115.4	117.5	111.6	5.97	19.680	
1,500.0	1,500.0	1,485.9	1,481.5	3.3	3.4	-97.62	-97.62	-17.4	-129.7	132.3	125.9	6.42	20.601	
1,600.0	1,600.0	1,584.8	1,579.3	3.5	3.7	-98.30	-98.30	-21.0	-143.9	147.0	140.2	6.87	21.394	
1,700.0	1,700.0	1,683.7	1,677.1	3.7	4.0	-98.85	-98.85	-24.6	-158.1	161.8	154.5	7.33	22.083	
1,800.0	1,800.0	1,782.6	1,774.9	3.9	4.4	-99.31	-99.31	-28.2	-172.4	176.6	168.8	7.78	22.687	
1,900.0	1,900.0	1,881.5	1,872.7	4.2	4.7	-99.69	-99.69	-31.9	-186.6	191.4	183.2	8.24	23.219	
2,000.0	2,000.0	1,980.4	1,970.4	4.4	5.0	-100.03	-100.03	-35.5	-200.8	206.2	197.5	8.70	23.692	
2,100.0	2,100.0	2,079.3	2,068.2	4.6	5.4	-100.31	-100.31	-39.1	-215.1	221.0	211.9	9.17	24.114	
2,200.0	2,200.0	2,178.2	2,166.0	4.8	5.7	-100.57	-100.57	-42.8	-229.3	235.9	226.2	9.63	24.494	
2,300.0	2,300.0	2,277.1	2,263.8	5.1	6.1	-100.79	-100.79	-46.4	-243.5	250.7	240.6	10.09	24.837	
2,400.0	2,400.0	2,375.9	2,361.6	5.3	6.4	-100.98	-100.98	-50.0	-257.8	265.5	255.0	10.56	25.148	
2,500.0	2,500.0	2,474.8	2,459.4	5.5	6.7	-101.16	-101.16	-53.7	-272.0	280.4	269.3	11.02	25.431	
2,600.0	2,600.0	2,573.7	2,557.2	5.7	7.1	87.80	87.80	-57.3	-286.2	295.1	283.8	11.38	25.924	
2,700.0	2,699.9	2,672.6	2,655.0	5.9	7.4	88.16	88.16	-60.9	-300.5	309.8	298.0	11.79	26.274	
2,800.0	2,799.7	2,771.4	2,752.7	6.0	7.8	88.93	88.93	-64.5	-314.7	324.5	312.3	12.21	26.583	
2,900.0	2,899.3	2,870.0	2,850.2	6.2	8.1	90.10	90.10	-68.2	-328.9	339.3	326.7	12.63	26.855	
3,000.0	2,998.8	2,968.5	2,947.6	6.4	8.5	91.41	91.41	-71.8	-343.1	354.2	341.2	13.07	27.097	
3,100.0	3,098.4	3,067.1	3,045.1	6.6	8.9	92.61	92.61	-75.4	-357.3	369.3	355.8	13.52	27.314	
3,200.0	3,197.9	3,165.7	3,142.6	6.8	9.2	93.71	93.71	-79.0	-371.4	384.6	370.6	13.98	27.510	
3,300.0	3,297.5	3,264.2	3,240.1	7.0	9.6	94.73	94.73	-82.6	-385.6	400.0	385.5	14.45	27.685	
3,400.0	3,397.0	3,362.8	3,337.5	7.2	9.9	95.67	95.67	-86.3	-399.8	415.5	400.6	14.92	27.843	
3,500.0	3,496.5	3,461.4	3,435.0	7.5	10.3	96.55	96.55	-89.9	-414.0	431.1	415.7	15.40	27.985	
3,600.0	3,596.1	3,559.9	3,532.5	7.7	10.6	97.37	97.37	-93.5	-428.2	446.8	430.9	15.89	28.113	
3,700.0	3,695.6	3,658.5	3,630.0	7.9	11.0	98.13	98.13	-97.1	-442.4	462.6	446.2	16.39	28.228	
3,800.0	3,795.2	3,757.1	3,727.4	8.1	11.3	98.84	98.84	-100.7	-456.6	478.4	461.5	16.89	28.332	
3,900.0	3,894.7	3,855.6	3,824.9	8.4	11.7	99.50	99.50	-104.4	-470.8	494.4	477.0	17.39	28.427	
4,000.0	3,994.2	3,954.2	3,922.4	8.6	12.0	100.13	100.13	-108.0	-484.9	510.3	492.4	17.90	28.512	
4,100.0	4,093.8	4,052.8	4,019.8	8.9	12.4	100.71	100.71	-111.6	-499.1	526.4	508.0	18.41	28.589	
4,200.0	4,193.4	4,151.4	4,117.4	9.1	12.8	101.35	101.35	-115.2	-513.3	542.4	523.4	18.93	28.649	
4,300.0	4,293.1	4,250.1	4,215.0	9.3	13.1	101.82	101.82	-118.8	-527.5	557.9	538.5	19.44	28.699	
4,400.0	4,393.1	4,349.0	4,312.8	9.6	13.5	102.00	102.00	-122.5	-541.8	573.0	553.0	19.93	28.747	
4,500.0	4,493.0	4,447.9	4,410.6	9.8	13.8	101.92	101.92	-126.1	-556.0	587.5	567.1	20.40	28.805	
4,600.0	4,593.0	4,546.8	4,508.4	10.0	14.2	-87.57	-87.57	-129.7	-570.2	601.7	580.9	20.83	28.893	
4,700.0	4,693.0	4,645.7	4,606.2	10.2	14.5	-87.97	-87.97	-133.4	-584.5	616.0	594.7	21.27	28.959	
4,800.0	4,793.0	4,744.6	4,704.0	10.4	14.9	-88.35	-88.35	-137.0	-598.7	630.2	608.5	21.72	29.023	
4,900.0	4,893.0	4,843.4	4,801.7	10.6	15.3	-88.71	-88.71	-140.6	-612.9	644.5	622.4	22.16	29.084	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design		Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8											Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance								
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,000.0	4,993.0	4,942.3	4,899.5	10.8	15.6	-89.06	-144.3	-627.2	658.9	636.3	22.61	29.143		
5,100.0	5,093.0	5,041.2	4,997.3	11.0	16.0	-89.39	-147.9	-641.4	673.2	650.2	23.06	29.200		
5,200.0	5,193.0	5,146.5	5,101.4	11.2	16.3	-89.72	-151.7	-656.4	687.5	664.0	23.51	29.242		
5,300.0	5,293.0	5,276.2	5,230.3	11.4	16.7	-90.04	-155.5	-671.1	698.8	674.8	23.97	29.153		
5,400.0	5,393.0	5,407.1	5,360.8	11.6	16.9	-90.22	-157.8	-680.1	705.7	681.3	24.41	28.913		
5,500.0	5,493.0	5,538.5	5,492.2	11.9	17.1	-90.29	-158.6	-683.4	708.2	683.4	24.84	28.508		
5,600.0	5,593.0	5,640.4	5,594.0	12.1	17.3	-90.29	-158.6	-683.4	708.2	683.0	25.24	28.060		
5,700.0	5,693.0	5,740.4	5,694.0	12.3	17.4	-90.29	-158.6	-683.4	708.2	682.6	25.63	27.628		
5,800.0	5,793.0	5,840.4	5,794.0	12.5	17.6	-90.29	-158.6	-683.4	708.2	682.2	26.03	27.208		
5,900.0	5,893.0	5,940.4	5,894.0	12.7	17.7	-90.29	-158.6	-683.4	708.2	681.8	26.43	26.798		
6,000.0	5,993.0	6,040.4	5,994.0	12.9	17.9	-90.29	-158.6	-683.4	708.2	681.4	26.83	26.399		
6,100.0	6,093.0	6,140.4	6,094.0	13.1	18.0	-90.29	-158.6	-683.4	708.2	681.0	27.23	26.011		
6,200.0	6,193.0	6,240.4	6,194.0	13.3	18.2	-90.29	-158.6	-683.4	708.2	680.6	27.63	25.632		
6,300.0	6,293.0	6,340.4	6,294.0	13.6	18.3	-90.29	-158.6	-683.4	708.2	680.2	28.03	25.263		
6,400.0	6,393.0	6,440.4	6,394.0	13.8	18.5	-90.29	-158.6	-683.4	708.2	679.8	28.44	24.903		
6,500.0	6,493.0	6,540.4	6,494.0	14.0	18.6	-90.29	-158.6	-683.4	708.2	679.4	28.85	24.552		
6,600.0	6,593.0	6,640.4	6,594.0	14.2	18.8	-90.29	-158.6	-683.4	708.2	679.0	29.25	24.210		
6,700.0	6,693.0	6,740.4	6,694.0	14.4	19.0	-90.29	-158.6	-683.4	708.2	678.6	29.66	23.877		
6,760.1	6,753.1	6,800.5	6,754.1	14.5	19.1	-90.57	-158.6	-683.4	708.2	678.3	29.91	23.676		
6,800.0	6,793.0	6,840.6	6,794.2	14.6	19.1	-90.53	-158.3	-683.4	708.2	678.2	30.08	23.546		
6,900.0	6,892.1	6,941.8	6,894.4	14.8	19.2	-90.51	-145.2	-683.4	708.2	677.8	30.41	23.291		
7,000.0	6,986.8	7,042.9	6,990.1	14.9	19.3	-90.48	-113.1	-683.3	708.3	677.6	30.64	23.113		
7,100.0	7,073.9	7,143.9	7,077.7	15.1	19.4	-90.43	-63.1	-683.1	708.3	677.4	30.86	22.955		
7,200.0	7,149.9	7,244.8	7,154.0	15.2	19.5	-90.36	2.7	-682.9	708.3	677.2	31.15	22.742		
7,300.0	7,212.3	7,345.5	7,216.1	15.5	19.5	-90.28	81.8	-682.6	708.3	676.7	31.63	22.394		
7,400.0	7,258.6	7,446.0	7,261.7	15.9	19.7	-90.19	171.2	-682.3	708.4	676.0	32.41	21.858		
7,500.0	7,287.2	7,546.4	7,289.4	16.4	19.9	-90.10	267.5	-681.9	708.4	674.9	33.53	21.127		
7,600.0	7,297.1	7,646.5	7,298.0	17.2	20.3	-90.00	367.0	-681.6	708.5	673.5	35.00	20.245		
7,700.0	7,296.6	7,746.5	7,297.6	18.1	21.0	-90.00	467.0	-681.2	708.6	671.8	36.79	19.259		
7,800.0	7,296.1	7,846.5	7,297.1	19.2	21.8	-90.00	567.0	-680.9	708.6	669.7	38.86	18.233		
7,900.0	7,295.7	7,946.5	7,296.6	20.3	22.8	-90.00	667.0	-680.5	708.7	667.5	41.19	17.206		
8,000.0	7,295.2	8,046.5	7,296.2	21.6	23.9	-90.00	767.0	-680.1	708.7	665.0	43.72	16.209		
8,100.0	7,294.7	8,146.5	7,295.7	23.0	25.1	-90.00	867.0	-679.8	708.8	662.3	46.44	15.263		
8,200.0	7,294.3	8,246.5	7,295.2	24.4	26.5	-90.00	967.0	-679.4	708.8	659.5	49.30	14.378		
8,300.0	7,293.8	8,346.5	7,294.7	26.0	27.8	-90.00	1,067.0	-679.1	708.9	656.6	52.29	13.558		
8,400.0	7,293.3	8,446.5	7,294.3	27.5	29.3	-90.00	1,167.0	-678.7	708.9	653.6	55.38	12.802		
8,500.0	7,292.8	8,546.5	7,293.8	29.1	30.8	-90.00	1,267.0	-678.4	709.0	650.4	58.55	12.109		
8,600.0	7,292.4	8,646.5	7,293.3	30.7	32.4	-90.00	1,367.0	-678.0	709.1	647.3	61.81	11.473		
8,700.0	7,291.9	8,746.5	7,292.9	32.4	33.9	-90.00	1,467.0	-677.7	709.1	644.0	65.12	10.890		
8,800.0	7,291.4	8,846.5	7,292.4	34.1	35.6	-90.00	1,567.0	-677.3	709.2	640.7	68.49	10.355		
8,900.0	7,291.0	8,946.5	7,291.9	35.8	37.2	-90.00	1,667.0	-677.0	709.2	637.3	71.90	9.864		
9,000.0	7,290.5	9,046.5	7,291.4	37.6	38.9	-90.00	1,767.0	-676.6	709.3	633.9	75.35	9.413		
9,100.0	7,290.0	9,146.5	7,291.0	39.3	40.6	-90.00	1,867.0	-676.3	709.3	630.5	78.84	8.997		
9,200.0	7,289.5	9,246.5	7,290.5	41.1	42.3	-90.00	1,967.0	-675.9	709.4	627.0	82.36	8.613		
9,300.0	7,289.1	9,346.5	7,290.0	42.8	44.0	-90.00	2,067.0	-675.6	709.5	623.5	85.91	8.259		
9,400.0	7,288.6	9,446.5	7,289.6	44.6	45.8	-90.00	2,167.0	-675.2	709.5	620.0	89.47	7.930		
9,500.0	7,288.1	9,546.5	7,289.1	46.4	47.5	-90.00	2,267.0	-674.8	709.6	616.5	93.06	7.625		
9,600.0	7,287.7	9,646.5	7,288.6	48.2	49.3	-90.00	2,367.0	-674.5	709.6	613.0	96.67	7.341		
9,700.0	7,287.2	9,746.5	7,288.1	50.1	51.1	-90.00	2,467.0	-674.1	709.7	609.4	100.29	7.076		
9,800.0	7,286.7	9,846.5	7,287.7	51.9	52.9	-90.00	2,567.0	-673.8	709.7	605.8	103.93	6.829		
9,900.0	7,286.2	9,946.5	7,287.2	53.7	54.6	-90.00	2,667.0	-673.4	709.8	602.2	107.58	6.598		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-4N - 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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,000.0	7,285.8	10,046.5	7,286.7	55.5	56.5	-90.00	2,767.0	-673.1	709.8	598.6	111.25	6.381	
10,100.0	7,285.3	10,146.5	7,286.3	57.4	58.3	-90.00	2,867.0	-672.7	709.9	595.0	114.92	6.177	
10,200.0	7,284.8	10,246.5	7,285.8	59.2	60.1	-90.00	2,967.0	-672.4	710.0	591.4	118.60	5.986	
10,300.0	7,284.4	10,346.5	7,285.3	61.1	61.9	-90.00	3,067.0	-672.0	710.0	587.7	122.30	5.806	
10,400.0	7,283.9	10,446.5	7,284.8	62.9	63.7	-90.00	3,167.0	-671.7	710.1	584.1	126.00	5.636	
10,500.0	7,283.4	10,546.5	7,284.4	64.8	65.6	-90.00	3,267.0	-671.3	710.1	580.4	129.71	5.475	
10,600.0	7,282.9	10,646.5	7,283.9	66.7	67.4	-90.00	3,367.0	-671.0	710.2	576.8	133.42	5.323	
10,700.0	7,282.5	10,746.5	7,283.4	68.5	69.2	-90.00	3,467.0	-670.6	710.2	573.1	137.14	5.179	
10,800.0	7,282.0	10,846.5	7,283.0	70.4	71.1	-90.00	3,567.0	-670.2	710.3	569.4	140.87	5.042	
10,900.0	7,281.5	10,946.5	7,282.5	72.2	72.9	-90.00	3,667.0	-669.9	710.4	565.8	144.60	4.913	
11,000.0	7,281.1	11,046.5	7,282.0	74.1	74.8	-90.00	3,767.0	-669.5	710.4	562.1	148.34	4.789	
11,100.0	7,280.6	11,146.5	7,281.5	76.0	76.7	-90.00	3,867.0	-669.2	710.5	558.4	152.08	4.672	
11,200.0	7,280.1	11,246.5	7,281.1	77.9	78.5	-90.00	3,967.0	-668.8	710.5	554.7	155.83	4.560	
11,300.0	7,279.6	11,346.5	7,280.6	79.7	80.4	-90.00	4,067.0	-668.5	710.6	551.0	159.57	4.453	
11,400.0	7,279.2	11,446.5	7,280.1	81.6	82.2	-90.00	4,167.0	-668.1	710.6	547.3	163.33	4.351	
11,500.0	7,278.7	11,546.5	7,279.7	83.5	84.1	-90.00	4,267.0	-667.8	710.7	543.6	167.08	4.253	
11,600.0	7,278.2	11,646.5	7,279.2	85.4	86.0	-90.00	4,367.0	-667.4	710.7	539.9	170.84	4.160	
11,700.0	7,277.8	11,746.5	7,278.7	87.3	87.8	-90.00	4,467.0	-667.1	710.8	536.2	174.61	4.071	
11,800.0	7,277.3	11,846.5	7,278.2	89.1	89.7	-90.00	4,567.0	-666.7	710.9	532.5	178.37	3.985	
11,830.4	7,277.1	11,876.9	7,278.1	89.7	90.3	-90.00	4,597.4	-666.6	710.9	531.4	179.52	3.960	
11,862.0	7,277.0	11,899.4	7,278.0	90.3	90.7	-90.00	4,619.9	-666.5	711.0	530.4	180.54	3.938 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - 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	1.0	1.0	0.0	0.0	-90.00	0.0	-44.8	44.8	44.8	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	-90.00	0.0	-44.8	44.8	44.6	0.23	197.415		
200.0	200.0	201.0	201.0	0.3	0.3	-90.00	0.0	-44.8	44.8	44.1	0.68	66.242		
300.0	300.0	301.0	301.0	0.6	0.6	-90.00	0.0	-44.8	44.8	43.7	1.13	39.798		
400.0	400.0	401.0	401.0	0.8	0.8	-90.00	0.0	-44.8	44.8	43.2	1.58	28.444		
500.0	500.0	501.0	501.0	1.0	1.0	-90.00	0.0	-44.8	44.8	42.8	2.03	22.130		
600.0	600.0	601.0	601.0	1.2	1.2	-90.00	0.0	-44.8	44.8	42.3	2.47	18.110		
700.0	700.0	701.0	701.0	1.5	1.5	-90.00	0.0	-44.8	44.8	41.9	2.92	15.326		
800.0	800.0	801.0	801.0	1.7	1.7	-90.00	0.0	-44.8	44.8	41.4	3.37	13.284		
900.0	900.0	901.0	901.0	1.9	1.9	-90.00	0.0	-44.8	44.8	41.0	3.82	11.722		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-90.00	0.0	-44.8	44.8	40.5	4.27	10.489		
1,100.0	1,100.0	1,101.0	1,101.0	2.4	2.4	-90.00	0.0	-44.8	44.8	40.1	4.72	9.490		
1,166.3	1,166.3	1,167.3	1,167.3	2.5	2.5	-90.00	0.0	-44.8	44.8	39.8	5.02	8.927 CC		
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	-90.00	0.0	-44.8	44.8	39.6	5.17	8.666 ES		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-90.68	-0.6	-46.5	46.5	40.9	5.60	8.300		
1,400.0	1,400.0	1,397.7	1,397.6	3.0	3.0	-92.42	-2.2	-51.3	51.4	45.4	6.01	8.553		
1,500.0	1,500.0	1,495.5	1,495.0	3.3	3.2	-94.67	-4.8	-59.3	59.8	53.3	6.44	9.285		
1,600.0	1,600.0	1,592.7	1,591.4	3.5	3.4	-96.92	-8.5	-70.3	71.5	64.6	6.86	10.411		
1,700.0	1,700.0	1,690.9	1,688.6	3.7	3.7	-98.86	-13.1	-83.8	85.7	78.4	7.30	11.743		
1,800.0	1,800.0	1,789.8	1,786.5	3.9	3.9	-100.26	-17.6	-97.5	100.1	92.4	7.73	12.949		
1,900.0	1,900.0	1,888.8	1,884.4	4.2	4.2	-101.31	-22.2	-111.2	114.6	106.4	8.17	14.024		
2,000.0	2,000.0	1,987.7	1,982.2	4.4	4.5	-102.12	-26.8	-124.9	129.1	120.5	8.62	14.987		
2,100.0	2,100.0	2,086.6	2,080.1	4.6	4.8	-102.77	-31.4	-138.6	143.7	134.6	9.06	15.853		
2,200.0	2,200.0	2,185.5	2,178.0	4.8	5.1	-103.30	-36.0	-152.3	158.2	148.7	9.51	16.634		
2,300.0	2,300.0	2,284.5	2,275.8	5.1	5.4	-103.74	-40.6	-166.0	172.8	162.8	9.96	17.343		
2,400.0	2,400.0	2,383.4	2,373.7	5.3	5.7	-104.12	-45.2	-179.8	187.4	176.9	10.42	17.987		
2,500.0	2,500.0	2,482.3	2,471.6	5.5	6.1	-104.44	-49.8	-193.5	201.9	191.1	10.87	18.575		
2,600.0	2,600.0	2,581.3	2,569.4	5.7	6.4	84.51	-54.4	-207.2	216.4	205.1	11.26	19.226		
2,700.0	2,699.9	2,680.2	2,667.3	5.9	6.7	85.01	-59.0	-220.9	230.6	219.0	11.65	19.788		
2,800.0	2,799.7	2,779.1	2,765.1	6.0	7.1	86.05	-63.6	-234.6	244.7	232.6	12.06	20.286		
2,900.0	2,899.3	2,877.8	2,862.8	6.2	7.4	87.57	-68.2	-248.3	258.8	246.3	12.48	20.731		
3,000.0	2,998.8	2,976.5	2,960.4	6.4	7.7	89.18	-72.7	-262.0	273.0	260.1	12.91	21.140		
3,100.0	3,098.4	3,075.2	3,058.1	6.6	8.1	90.63	-77.3	-275.6	287.5	274.1	13.36	21.519		
3,200.0	3,197.9	3,173.9	3,155.7	6.8	8.4	91.94	-81.9	-289.3	302.1	288.3	13.81	21.870		
3,300.0	3,297.5	3,272.6	3,253.4	7.0	8.8	93.12	-86.5	-303.0	316.8	302.5	14.27	22.194		
3,400.0	3,397.0	3,371.3	3,351.0	7.2	9.1	94.21	-91.1	-316.7	331.7	316.9	14.75	22.494		
3,500.0	3,496.5	3,470.0	3,448.7	7.5	9.4	95.20	-95.7	-330.4	346.7	331.4	15.22	22.770		
3,600.0	3,596.1	3,568.7	3,546.3	7.7	9.8	96.10	-100.2	-344.0	361.7	346.0	15.71	23.026		
3,700.0	3,695.6	3,667.4	3,643.9	7.9	10.1	96.94	-104.8	-357.7	376.9	360.7	16.20	23.262		
3,800.0	3,795.2	3,766.1	3,741.6	8.1	10.5	97.71	-109.4	-371.4	392.1	375.4	16.70	23.481		
3,900.0	3,894.7	3,864.8	3,839.2	8.4	10.8	98.42	-114.0	-385.1	407.4	390.2	17.20	23.684		
4,000.0	3,994.2	3,963.5	3,936.9	8.6	11.2	99.09	-118.6	-398.8	422.8	405.0	17.71	23.873		
4,100.0	4,093.8	4,062.2	4,034.5	8.9	11.5	99.70	-123.2	-412.4	438.2	419.9	18.22	24.048		
4,200.0	4,193.4	4,161.0	4,132.2	9.1	11.9	100.35	-127.7	-426.1	453.5	434.8	18.74	24.204		
4,300.0	4,293.1	4,259.8	4,230.0	9.3	12.2	100.77	-132.3	-439.8	468.5	449.2	19.24	24.346		
4,400.0	4,393.1	4,358.8	4,327.8	9.6	12.6	100.86	-136.9	-453.5	482.9	463.2	19.73	24.481		
4,500.0	4,493.0	4,457.7	4,425.7	9.8	12.9	100.64	-141.5	-467.3	497.0	476.8	20.19	24.619		
4,600.0	4,593.0	4,556.6	4,523.6	10.0	13.3	-88.99	-146.1	-481.0	510.7	490.1	20.61	24.775		
4,700.0	4,693.0	4,664.1	4,629.9	10.2	13.6	-89.56	-151.0	-495.5	524.2	503.1	21.06	24.889		
4,800.0	4,793.0	4,784.6	4,749.7	10.4	13.9	-90.01	-155.1	-507.8	534.5	513.0	21.50	24.861		
4,900.0	4,893.0	4,906.0	4,870.9	10.6	14.2	-90.28	-157.7	-515.5	540.8	518.8	21.92	24.667		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - 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)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.0	4,993.0	5,027.9	4,992.7	10.8	14.4	-90.38	-158.6	-518.2	543.0	520.7	22.34	24.302		
5,100.0	5,093.0	5,129.2	5,094.0	11.0	14.5	-90.38	-158.6	-518.2	543.0	520.3	22.74	23.877		
5,200.0	5,193.0	5,229.2	5,194.0	11.2	14.7	-90.38	-158.6	-518.2	543.0	519.9	23.14	23.467		
5,300.0	5,293.0	5,329.2	5,294.0	11.4	14.8	-90.38	-158.6	-518.2	543.0	519.5	23.54	23.068		
5,400.0	5,393.0	5,429.2	5,394.0	11.6	15.0	-90.38	-158.6	-518.2	543.0	519.1	23.94	22.681		
5,500.0	5,493.0	5,529.2	5,494.0	11.9	15.1	-90.38	-158.6	-518.2	543.0	518.7	24.35	22.305		
5,600.0	5,593.0	5,629.2	5,594.0	12.1	15.3	-90.38	-158.6	-518.2	543.0	518.3	24.75	21.941		
5,700.0	5,693.0	5,729.2	5,694.0	12.3	15.5	-90.38	-158.6	-518.2	543.0	517.9	25.16	21.586		
5,800.0	5,793.0	5,829.2	5,794.0	12.5	15.6	-90.38	-158.6	-518.2	543.0	517.5	25.56	21.242		
5,900.0	5,893.0	5,929.2	5,894.0	12.7	15.8	-90.38	-158.6	-518.2	543.0	517.1	25.97	20.907		
6,000.0	5,993.0	6,029.2	5,994.0	12.9	16.0	-90.38	-158.6	-518.2	543.0	516.6	26.38	20.582		
6,100.0	6,093.0	6,129.2	6,094.0	13.1	16.2	-90.38	-158.6	-518.2	543.0	516.2	26.80	20.266		
6,200.0	6,193.0	6,229.2	6,194.0	13.3	16.3	-90.38	-158.6	-518.2	543.0	515.8	27.21	19.958		
6,300.0	6,293.0	6,329.2	6,294.0	13.6	16.5	-90.38	-158.6	-518.2	543.0	515.4	27.62	19.659		
6,400.0	6,393.0	6,429.2	6,394.0	13.8	16.7	-90.38	-158.6	-518.2	543.0	515.0	28.04	19.368		
6,500.0	6,493.0	6,529.2	6,494.0	14.0	16.9	-90.38	-158.6	-518.2	543.0	514.6	28.45	19.085		
6,600.0	6,593.0	6,629.2	6,594.0	14.2	17.0	-90.38	-158.6	-518.2	543.0	514.2	28.87	18.810		
6,700.0	6,693.0	6,729.2	6,694.0	14.4	17.2	-90.38	-158.6	-518.2	543.0	513.7	29.29	18.541		
6,760.1	6,753.1	6,789.3	6,754.1	14.5	17.3	-90.68	-158.6	-518.2	543.0	513.5	29.54	18.381		
6,800.0	6,793.0	6,829.2	6,794.0	14.6	17.4	-90.64	-158.6	-518.2	543.0	513.3	29.71	18.277		
6,900.0	6,892.1	6,928.2	6,893.1	14.8	17.6	-91.94	-158.6	-518.2	543.3	513.3	30.05	18.082		
7,000.0	6,986.8	7,024.2	6,989.0	14.9	17.7	-94.88	-158.5	-518.2	545.3	515.0	30.27	18.013		
7,100.0	7,073.9	7,130.9	7,094.7	15.1	17.9	-98.56	-145.1	-518.2	550.1	519.7	30.41	18.089		
7,200.0	7,149.9	7,248.2	7,205.0	15.2	18.0	-102.09	-106.0	-518.0	557.0	526.5	30.48	18.274		
7,300.0	7,212.3	7,377.9	7,313.4	15.5	18.1	-105.31	-35.4	-517.8	564.8	534.3	30.56	18.484		
7,400.0	7,258.6	7,521.0	7,408.7	15.9	18.2	-107.96	70.8	-517.4	572.2	541.4	30.82	18.566		
7,500.0	7,287.2	7,675.8	7,475.1	16.4	18.5	-109.69	209.9	-516.9	577.3	545.7	31.57	18.289		
7,600.0	7,297.1	7,835.2	7,497.8	17.2	19.2	-110.19	367.1	-516.4	578.9	545.9	32.99	17.544		
7,623.7	7,297.1	7,858.9	7,497.8	17.4	19.4	-110.18	390.8	-516.3	578.8	545.4	33.38	17.342		
7,700.0	7,296.6	7,935.2	7,497.5	18.1	19.9	-110.20	467.1	-516.0	578.9	544.3	34.65	16.709		
7,800.0	7,296.1	8,035.2	7,497.1	19.2	20.9	-110.21	567.1	-515.6	579.0	542.5	36.58	15.829		
7,900.0	7,295.7	8,135.2	7,496.8	20.3	21.9	-110.22	667.1	-515.3	579.1	540.4	38.76	14.943		
8,000.0	7,295.2	8,235.2	7,496.4	21.6	23.1	-110.23	767.1	-514.9	579.2	538.1	41.14	14.081		
8,100.0	7,294.7	8,335.2	7,496.1	23.0	24.4	-110.23	867.1	-514.6	579.3	535.6	43.69	13.260		
8,200.0	7,294.3	8,435.2	7,495.7	24.4	25.8	-110.24	967.1	-514.2	579.4	533.0	46.38	12.492		
8,300.0	7,293.8	8,535.2	7,495.4	26.0	27.2	-110.25	1,067.1	-513.9	579.5	530.3	49.20	11.779		
8,400.0	7,293.3	8,635.2	7,495.1	27.5	28.7	-110.26	1,167.1	-513.5	579.6	527.5	52.11	11.122		
8,500.0	7,292.8	8,735.2	7,494.7	29.1	30.2	-110.27	1,267.1	-513.2	579.7	524.6	55.11	10.519		
8,600.0	7,292.4	8,835.2	7,494.4	30.7	31.8	-110.28	1,367.1	-512.8	579.8	521.6	58.18	9.965		
8,700.0	7,291.9	8,935.2	7,494.0	32.4	33.4	-110.29	1,467.1	-512.5	579.9	518.6	61.31	9.458		
8,800.0	7,291.4	9,035.2	7,493.7	34.1	35.0	-110.30	1,567.1	-512.1	580.0	515.5	64.49	8.993		
8,900.0	7,291.0	9,135.2	7,493.3	35.8	36.7	-110.31	1,667.1	-511.7	580.1	512.4	67.72	8.566		
9,000.0	7,290.5	9,235.2	7,493.0	37.6	38.4	-110.32	1,767.1	-511.4	580.2	509.2	70.98	8.173		
9,100.0	7,290.0	9,335.2	7,492.6	39.3	40.1	-110.33	1,867.1	-511.0	580.3	506.0	74.28	7.812		
9,200.0	7,289.5	9,435.2	7,492.3	41.1	41.8	-110.34	1,967.1	-510.7	580.4	502.8	77.61	7.478		
9,300.0	7,289.1	9,535.2	7,491.9	42.8	43.6	-110.35	2,067.1	-510.3	580.5	499.5	80.96	7.170		
9,400.0	7,288.6	9,635.2	7,491.6	44.6	45.3	-110.36	2,167.1	-510.0	580.6	496.2	84.33	6.884		
9,500.0	7,288.1	9,735.2	7,491.2	46.4	47.1	-110.37	2,267.1	-509.6	580.6	492.9	87.72	6.619		
9,600.0	7,287.7	9,835.2	7,490.9	48.2	48.9	-110.38	2,367.1	-509.3	580.7	489.6	91.13	6.372		
9,700.0	7,287.2	9,935.2	7,490.5	50.1	50.7	-110.39	2,467.1	-508.9	580.8	486.3	94.56	6.143		
9,800.0	7,286.7	10,035.2	7,490.2	51.9	52.5	-110.39	2,567.1	-508.6	580.9	482.9	98.00	5.928		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - 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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9,900.0	7,286.2	10,135.2	7,489.8	53.7	54.3	-110.40	2,667.1	-508.2	581.0	479.6	101.45	5.727	
10,000.0	7,285.8	10,235.2	7,489.5	55.5	56.1	-110.41	2,767.1	-507.9	581.1	476.2	104.91	5.539	
10,100.0	7,285.3	10,335.2	7,489.1	57.4	57.9	-110.42	2,867.1	-507.5	581.2	472.8	108.39	5.363	
10,200.0	7,284.8	10,435.2	7,488.8	59.2	59.8	-110.43	2,967.1	-507.1	581.3	469.4	111.87	5.196	
10,300.0	7,284.4	10,535.2	7,488.4	61.1	61.6	-110.44	3,067.1	-506.8	581.4	466.1	115.36	5.040	
10,400.0	7,283.9	10,635.2	7,488.1	62.9	63.4	-110.45	3,167.1	-506.4	581.5	462.6	118.85	4.893	
10,500.0	7,283.4	10,735.2	7,487.7	64.8	65.3	-110.46	3,267.1	-506.1	581.6	459.2	122.36	4.753	
10,600.0	7,282.9	10,835.2	7,487.4	66.7	67.1	-110.47	3,367.1	-505.7	581.7	455.8	125.87	4.622	
10,700.0	7,282.5	10,935.2	7,487.0	68.5	69.0	-110.48	3,467.1	-505.4	581.8	452.4	129.38	4.497	
10,800.0	7,282.0	11,035.2	7,486.7	70.4	70.8	-110.49	3,567.1	-505.0	581.9	449.0	132.90	4.378	
10,900.0	7,281.5	11,135.2	7,486.3	72.2	72.7	-110.50	3,667.1	-504.7	582.0	445.6	136.43	4.266	
11,000.0	7,281.1	11,235.2	7,486.0	74.1	74.5	-110.51	3,767.1	-504.3	582.1	442.1	139.95	4.159	
11,100.0	7,280.6	11,335.2	7,485.6	76.0	76.4	-110.52	3,867.1	-504.0	582.2	438.7	143.49	4.057	
11,200.0	7,280.1	11,435.2	7,485.3	77.9	78.2	-110.53	3,967.1	-503.6	582.3	435.2	147.02	3.960	
11,300.0	7,279.6	11,535.2	7,484.9	79.7	80.1	-110.53	4,067.1	-503.2	582.4	431.8	150.57	3.868	
11,400.0	7,279.2	11,635.2	7,484.6	81.6	82.0	-110.54	4,167.1	-502.9	582.5	428.3	154.11	3.779	
11,500.0	7,278.7	11,735.2	7,484.2	83.5	83.8	-110.55	4,267.1	-502.5	582.5	424.9	157.65	3.695	
11,600.0	7,278.2	11,835.2	7,483.9	85.4	85.7	-110.56	4,367.1	-502.2	582.6	421.4	161.20	3.614	
11,700.0	7,277.8	11,935.2	7,483.5	87.3	87.6	-110.57	4,467.1	-501.8	582.7	418.0	164.75	3.537	
11,800.0	7,277.3	12,035.2	7,483.2	89.1	89.5	-110.58	4,567.1	-501.5	582.8	414.5	168.31	3.463	
11,829.6	7,277.2	12,064.8	7,483.1	89.7	90.0	-110.58	4,596.7	-501.4	582.9	413.5	169.36	3.442	
11,862.0	7,277.0	12,088.1	7,483.0	90.3	90.5	-110.59	4,619.9	-501.3	583.0	412.6	170.35	3.422 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-6N - 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	1.0	1.0	0.0	0.0	-90.00	-90.00	0.0	-30.8	30.8	30.8	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-90.00	-90.00	0.0	-30.8	30.8	30.6	0.23	135.723	
200.0	200.0	201.0	201.0	0.3	0.3	-90.00	-90.00	0.0	-30.8	30.8	30.1	0.68	45.542	
300.0	300.0	301.0	301.0	0.6	0.6	-90.00	-90.00	0.0	-30.8	30.8	29.7	1.13	27.361	
400.0	400.0	401.0	401.0	0.8	0.8	-90.00	-90.00	0.0	-30.8	30.8	29.2	1.58	19.555	
500.0	500.0	501.0	501.0	1.0	1.0	-90.00	-90.00	0.0	-30.8	30.8	28.8	2.03	15.214	
600.0	600.0	601.0	601.0	1.2	1.2	-90.00	-90.00	0.0	-30.8	30.8	28.3	2.47	12.451	
700.0	700.0	701.0	701.0	1.5	1.5	-90.00	-90.00	0.0	-30.8	30.8	27.9	2.92	10.537	
800.0	800.0	801.0	801.0	1.7	1.7	-90.00	-90.00	0.0	-30.8	30.8	27.4	3.37	9.133	
900.0	900.0	901.0	901.0	1.9	1.9	-90.00	-90.00	0.0	-30.8	30.8	27.0	3.82	8.059	
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-90.00	-90.00	0.0	-30.8	30.8	26.5	4.27	7.211	
1,100.0	1,100.0	1,101.0	1,101.0	2.4	2.4	-90.00	-90.00	0.0	-30.8	30.8	26.1	4.72	6.525	
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	-90.00	-90.00	0.0	-30.8	30.8	25.6	5.17	5.957	
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	-90.00	-90.00	0.0	-30.8	30.8	25.2	5.62	5.481	
1,366.3	1,366.3	1,367.3	1,367.3	3.0	3.0	-90.00	-90.00	0.0	-30.8	30.8	24.9	5.92	5.205 CC	
1,400.0	1,400.0	1,401.0	1,401.0	3.0	3.0	-90.00	-90.00	0.0	-30.8	30.8	24.7	6.07	5.075 ES	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.2	-91.36	-91.36	-0.8	-32.4	32.4	25.9	6.50	4.987	
1,600.0	1,600.0	1,598.8	1,598.6	3.5	3.4	-94.70	-94.70	-3.0	-37.0	37.2	30.3	6.91	5.384	
1,700.0	1,700.0	1,697.1	1,696.5	3.7	3.6	-98.66	-98.66	-6.8	-44.6	45.4	38.0	7.33	6.190	
1,800.0	1,800.0	1,795.0	1,793.8	3.9	3.8	-102.26	-102.26	-12.0	-55.1	56.9	49.1	7.75	7.340	
1,900.0	1,900.0	1,894.2	1,892.1	4.2	4.1	-104.85	-104.85	-17.7	-66.8	69.7	61.5	8.18	8.518	
2,000.0	2,000.0	1,993.3	1,990.4	4.4	4.3	-106.64	-106.64	-23.4	-78.4	82.5	73.9	8.61	9.585	
2,100.0	2,100.0	2,092.5	2,088.7	4.6	4.6	-107.94	-107.94	-29.2	-90.0	95.4	86.4	9.04	10.553	
2,200.0	2,200.0	2,191.6	2,187.0	4.8	4.9	-108.94	-108.94	-34.9	-101.6	108.4	98.9	9.48	11.432	
2,300.0	2,300.0	2,290.7	2,285.2	5.1	5.1	-109.72	-109.72	-40.6	-113.3	121.3	111.4	9.92	12.232	
2,400.0	2,400.0	2,389.9	2,383.5	5.3	5.4	-110.35	-110.35	-46.3	-124.9	134.3	124.0	10.36	12.963	
2,500.0	2,500.0	2,489.0	2,481.8	5.5	5.7	-110.87	-110.87	-52.0	-136.5	147.3	136.5	10.81	13.633	
2,600.0	2,600.0	2,588.2	2,580.2	5.7	6.0	78.06	78.06	-57.8	-148.1	160.1	148.9	11.20	14.293	
2,700.0	2,699.9	2,687.4	2,678.5	5.9	6.3	78.76	78.76	-63.5	-159.8	172.3	160.7	11.59	14.865	
2,800.0	2,799.7	2,786.6	2,776.9	6.0	6.6	80.15	80.15	-69.2	-171.4	184.1	172.1	11.99	15.353	
2,900.0	2,899.3	2,885.7	2,875.1	6.2	6.9	82.13	82.13	-74.9	-183.0	195.7	183.3	12.41	15.775	
3,000.0	2,998.8	2,984.7	2,973.3	6.4	7.2	84.15	84.15	-80.7	-194.6	207.5	194.6	12.83	16.166	
3,100.0	3,098.4	3,083.8	3,071.5	6.6	7.5	85.94	85.94	-86.4	-206.2	219.4	206.2	13.27	16.535	
3,200.0	3,197.9	3,182.9	3,169.7	6.8	7.9	87.55	87.55	-92.1	-217.8	231.6	217.9	13.72	16.881	
3,300.0	3,297.5	3,281.9	3,267.9	7.0	8.2	89.00	89.00	-97.8	-229.5	243.9	229.8	14.18	17.205	
3,400.0	3,397.0	3,381.0	3,366.1	7.2	8.5	90.31	90.31	-103.5	-241.1	256.4	241.8	14.65	17.508	
3,500.0	3,496.5	3,480.0	3,464.3	7.5	8.8	91.50	91.50	-109.2	-252.7	269.0	253.9	15.12	17.791	
3,600.0	3,596.1	3,579.1	3,562.5	7.7	9.1	92.58	92.58	-115.0	-264.3	281.7	266.1	15.60	18.054	
3,700.0	3,695.6	3,678.1	3,660.7	7.9	9.4	93.57	93.57	-120.7	-275.9	294.5	278.4	16.09	18.300	
3,800.0	3,795.2	3,777.2	3,759.0	8.1	9.8	94.47	94.47	-126.4	-287.5	307.4	290.8	16.59	18.530	
3,900.0	3,894.7	3,876.2	3,857.2	8.4	10.1	95.31	95.31	-132.1	-299.1	320.3	303.2	17.09	18.745	
4,000.0	3,994.2	3,975.3	3,955.4	8.6	10.4	96.07	96.07	-137.8	-310.7	333.3	315.7	17.59	18.946	
4,100.0	4,093.8	4,074.4	4,053.6	8.9	10.7	96.78	96.78	-143.6	-322.4	346.4	328.3	18.10	19.134	
4,200.0	4,193.4	4,176.8	4,155.2	9.1	11.1	97.51	97.51	-149.4	-334.2	359.3	340.7	18.62	19.299	
4,300.0	4,293.1	4,289.2	4,267.0	9.3	11.3	98.08	98.08	-154.4	-344.4	369.3	350.2	19.10	19.338	
4,400.0	4,393.1	4,402.3	4,379.8	9.6	11.5	98.42	98.42	-157.5	-350.6	375.5	356.0	19.55	19.205	
4,500.0	4,493.0	4,515.7	4,493.2	9.8	11.7	98.54	98.54	-158.6	-352.9	377.7	357.7	19.97	18.913	
4,600.0	4,593.0	4,616.5	4,594.0	10.0	11.9	-90.55	-90.55	-158.6	-352.9	377.7	357.4	20.36	18.554	
4,700.0	4,693.0	4,716.5	4,694.0	10.2	12.1	-90.55	-90.55	-158.6	-352.9	377.7	357.0	20.76	18.198	
4,800.0	4,793.0	4,816.5	4,794.0	10.4	12.3	-90.55	-90.55	-158.6	-352.9	377.7	356.6	21.16	17.853	
4,900.0	4,893.0	4,916.5	4,894.0	10.6	12.4	-90.55	-90.55	-158.6	-352.9	377.7	356.2	21.56	17.520	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-6N - 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	4,993.0	5,016.5	4,994.0	10.8	12.6	-90.55	-158.6	-352.9	377.7	355.8	21.96	17.197		
5,100.0	5,093.0	5,116.5	5,094.0	11.0	12.8	-90.55	-158.6	-352.9	377.7	355.4	22.37	16.885		
5,200.0	5,193.0	5,216.5	5,194.0	11.2	13.0	-90.55	-158.6	-352.9	377.7	354.9	22.78	16.582		
5,300.0	5,293.0	5,316.5	5,294.0	11.4	13.2	-90.55	-158.6	-352.9	377.7	354.5	23.19	16.289		
5,400.0	5,393.0	5,416.5	5,394.0	11.6	13.3	-90.55	-158.6	-352.9	377.7	354.1	23.60	16.006		
5,500.0	5,493.0	5,516.5	5,494.0	11.9	13.5	-90.55	-158.6	-352.9	377.7	353.7	24.01	15.731		
5,600.0	5,593.0	5,616.5	5,594.0	12.1	13.7	-90.55	-158.6	-352.9	377.7	353.3	24.43	15.465		
5,700.0	5,693.0	5,716.5	5,694.0	12.3	13.9	-90.55	-158.6	-352.9	377.7	352.9	24.84	15.206		
5,800.0	5,793.0	5,816.5	5,794.0	12.5	14.1	-90.55	-158.6	-352.9	377.7	352.5	25.26	14.956		
5,900.0	5,893.0	5,916.5	5,894.0	12.7	14.3	-90.55	-158.6	-352.9	377.7	352.1	25.67	14.713		
6,000.0	5,993.0	6,016.5	5,994.0	12.9	14.5	-90.55	-158.6	-352.9	377.7	351.6	26.09	14.477		
6,100.0	6,093.0	6,116.5	6,094.0	13.1	14.6	-90.55	-158.6	-352.9	377.7	351.2	26.51	14.248		
6,200.0	6,193.0	6,216.5	6,194.0	13.3	14.8	-90.55	-158.6	-352.9	377.7	350.8	26.93	14.026		
6,300.0	6,293.0	6,316.5	6,294.0	13.6	15.0	-90.55	-158.6	-352.9	377.7	350.4	27.35	13.810		
6,400.0	6,393.0	6,416.5	6,394.0	13.8	15.2	-90.55	-158.6	-352.9	377.7	350.0	27.77	13.600		
6,500.0	6,493.0	6,516.5	6,494.0	14.0	15.4	-90.55	-158.6	-352.9	377.7	349.5	28.20	13.396		
6,600.0	6,593.0	6,616.5	6,594.0	14.2	15.6	-90.55	-158.6	-352.9	377.7	349.1	28.62	13.198		
6,700.0	6,693.0	6,716.5	6,694.0	14.4	15.8	-90.55	-158.6	-352.9	377.7	348.7	29.04	13.005		
6,759.9	6,753.0	6,776.4	6,754.0	14.5	15.9	-90.87	-158.6	-352.9	377.7	348.4	29.30	12.891		
6,800.0	6,793.0	6,816.7	6,794.2	14.6	16.0	-90.78	-158.3	-352.9	377.7	348.3	29.47	12.817		
6,900.0	6,892.1	6,917.6	6,894.1	14.8	16.2	-90.76	-145.3	-352.9	377.7	347.9	29.81	12.670		
7,000.0	6,986.8	7,018.5	6,989.7	14.9	16.3	-90.71	-113.3	-352.8	377.7	347.7	30.06	12.566		
7,100.0	7,073.9	7,119.4	7,077.2	15.1	16.4	-90.64	-63.5	-352.6	377.8	347.5	30.28	12.476		
7,200.0	7,149.9	7,220.1	7,153.4	15.2	16.5	-90.54	2.0	-352.3	377.8	347.2	30.58	12.354		
7,300.0	7,212.3	7,320.7	7,215.6	15.5	16.6	-90.42	80.9	-352.1	377.8	346.8	31.08	12.158		
7,400.0	7,258.6	7,421.1	7,261.3	15.9	16.7	-90.29	170.2	-351.8	377.9	346.0	31.87	11.858		
7,500.0	7,287.2	7,521.4	7,289.2	16.4	17.1	-90.15	266.3	-351.4	377.9	344.9	33.01	11.450		
7,600.0	7,297.1	7,621.4	7,298.1	17.2	17.8	-90.00	365.9	-351.1	378.0	343.5	34.48	10.961		
7,700.0	7,296.6	7,721.4	7,297.6	18.1	18.7	-90.00	465.9	-350.7	378.1	341.8	36.29	10.417		
7,800.0	7,296.1	7,821.4	7,297.1	19.2	19.7	-90.00	565.8	-350.4	378.1	339.7	38.39	9.850		
7,900.0	7,295.7	7,921.4	7,296.6	20.3	20.8	-90.00	665.8	-350.0	378.2	337.4	40.74	9.283		
8,000.0	7,295.2	8,021.4	7,296.2	21.6	22.1	-90.00	765.8	-349.7	378.2	334.9	43.30	8.736		
8,100.0	7,294.7	8,121.4	7,295.7	23.0	23.4	-90.00	865.8	-349.3	378.3	332.3	46.03	8.218		
8,200.0	7,294.3	8,221.4	7,295.2	24.4	24.9	-90.00	965.8	-348.9	378.3	329.4	48.91	7.735		
8,300.0	7,293.8	8,321.4	7,294.8	26.0	26.3	-90.00	1,065.8	-348.6	378.4	326.5	51.92	7.288		
8,400.0	7,293.3	8,421.4	7,294.3	27.5	27.9	-90.00	1,165.8	-348.2	378.5	323.4	55.03	6.878		
8,500.0	7,292.8	8,521.4	7,293.8	29.1	29.5	-90.00	1,265.8	-347.9	378.5	320.3	58.22	6.501		
8,600.0	7,292.4	8,621.4	7,293.3	30.7	31.1	-90.00	1,365.8	-347.5	378.6	317.1	61.49	6.157		
8,700.0	7,291.9	8,721.4	7,292.9	32.4	32.7	-90.00	1,465.8	-347.2	378.6	313.8	64.81	5.842		
8,800.0	7,291.4	8,821.4	7,292.4	34.1	34.4	-90.00	1,565.8	-346.8	378.7	310.5	68.19	5.553		
8,900.0	7,291.0	8,921.4	7,291.9	35.8	36.1	-90.00	1,665.8	-346.5	378.7	307.1	71.62	5.288		
9,000.0	7,290.5	9,021.4	7,291.5	37.6	37.8	-90.00	1,765.8	-346.1	378.8	303.7	75.08	5.045		
9,100.0	7,290.0	9,121.4	7,291.0	39.3	39.5	-90.00	1,865.8	-345.8	378.9	300.3	78.58	4.821		
9,200.0	7,289.5	9,221.4	7,290.5	41.1	41.3	-90.00	1,965.8	-345.4	378.9	296.8	82.11	4.615		
9,300.0	7,289.1	9,321.4	7,290.0	42.8	43.1	-90.00	2,065.8	-345.1	379.0	293.3	85.66	4.424		
9,400.0	7,288.6	9,421.4	7,289.6	44.6	44.8	-90.00	2,165.8	-344.7	379.0	289.8	89.24	4.247		
9,500.0	7,288.1	9,521.4	7,289.1	46.4	46.6	-90.00	2,265.8	-344.4	379.1	286.3	92.84	4.083		
9,600.0	7,287.7	9,621.4	7,288.6	48.2	48.4	-90.00	2,365.8	-344.0	379.1	282.7	96.45	3.931		
9,700.0	7,287.2	9,721.4	7,288.2	50.1	50.2	-90.00	2,465.8	-343.7	379.2	279.1	100.08	3.789		
9,800.0	7,286.7	9,821.4	7,287.7	51.9	52.0	-90.00	2,565.8	-343.3	379.3	275.5	103.72	3.656		
9,900.0	7,286.2	9,921.4	7,287.2	53.7	53.9	-90.00	2,665.8	-343.0	379.3	271.9	107.38	3.532		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-6N - 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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,000.0	7,285.8	10,021.4	7,286.8	55.5	55.7	-90.00	2,765.8	-342.6	379.4	268.3	111.05	3.416		
10,100.0	7,285.3	10,121.4	7,286.3	57.4	57.5	-90.00	2,865.8	-342.3	379.4	264.7	114.73	3.307		
10,200.0	7,284.8	10,221.4	7,285.8	59.2	59.4	-90.00	2,965.8	-341.9	379.5	261.1	118.42	3.205		
10,300.0	7,284.4	10,321.4	7,285.3	61.1	61.2	-90.00	3,065.8	-341.5	379.5	257.4	122.11	3.108		
10,400.0	7,283.9	10,421.4	7,284.9	62.9	63.1	-90.00	3,165.8	-341.2	379.6	253.8	125.82	3.017		
10,500.0	7,283.4	10,521.4	7,284.4	64.8	64.9	-90.00	3,265.8	-340.8	379.7	250.1	129.53	2.931		
10,600.0	7,282.9	10,621.4	7,283.9	66.7	66.8	-90.00	3,365.8	-340.5	379.7	246.5	133.25	2.850		
10,700.0	7,282.5	10,721.4	7,283.5	68.5	68.6	-90.00	3,465.8	-340.1	379.8	242.8	136.97	2.773		
10,800.0	7,282.0	10,821.4	7,283.0	70.4	70.5	-90.00	3,565.8	-339.8	379.8	239.1	140.70	2.700		
10,900.0	7,281.5	10,921.4	7,282.5	72.2	72.3	-90.00	3,665.8	-339.4	379.9	235.5	144.44	2.630		
11,000.0	7,281.1	11,021.4	7,282.0	74.1	74.2	-90.00	3,765.8	-339.1	380.0	231.8	148.18	2.564		
11,100.0	7,280.6	11,121.4	7,281.6	76.0	76.1	-90.00	3,865.8	-338.7	380.0	228.1	151.92	2.501		
11,200.0	7,280.1	11,121.4	7,281.1	77.9	77.9	-90.00	3,965.8	-338.4	380.1	224.4	155.67	2.441		
11,300.0	7,279.6	11,321.4	7,280.6	79.7	79.8	-90.00	4,065.8	-338.0	380.1	220.7	159.42	2.384		
11,400.0	7,279.2	11,421.4	7,280.2	81.6	81.7	-90.00	4,165.8	-337.7	380.2	217.0	163.18	2.330		
11,500.0	7,278.7	11,521.4	7,279.7	83.5	83.6	-90.00	4,265.8	-337.3	380.2	213.3	166.94	2.278		
11,600.0	7,278.2	11,621.4	7,279.2	85.4	85.4	-90.00	4,365.8	-337.0	380.3	209.6	170.70	2.228		
11,700.0	7,277.8	11,721.4	7,278.7	87.3	87.3	-90.00	4,465.8	-336.6	380.4	205.9	174.47	2.180		
11,800.0	7,277.3	11,821.4	7,278.3	89.1	89.2	-90.00	4,565.8	-336.3	380.4	202.2	178.23	2.134		
11,832.4	7,277.1	11,853.9	7,278.1	89.8	89.8	-90.00	4,598.2	-336.1	380.4	201.0	179.46	2.120		
11,862.0	7,277.0	11,879.2	7,278.0	90.3	90.3	-90.00	4,623.6	-336.1	380.5	200.0	180.49	2.108 SF		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - 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 (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	-16.8	16.8	16.8	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	-90.01	-90.01	0.0	-16.8	16.8	16.6	0.22	74.771	
200.0	200.0	200.0	200.0	0.3	0.3	-90.01	-90.01	0.0	-16.8	16.8	16.1	0.67	24.924	
300.0	300.0	300.0	300.0	0.6	0.6	-90.01	-90.01	0.0	-16.8	16.8	15.7	1.12	14.954	
400.0	400.0	400.0	400.0	0.8	0.8	-90.01	-90.01	0.0	-16.8	16.8	15.2	1.57	10.682	
500.0	500.0	500.0	500.0	1.0	1.0	-90.01	-90.01	0.0	-16.8	16.8	14.8	2.02	8.308	
600.0	600.0	600.0	600.0	1.2	1.2	-90.01	-90.01	0.0	-16.8	16.8	14.3	2.47	6.797	
700.0	700.0	700.0	700.0	1.5	1.5	-90.01	-90.01	0.0	-16.8	16.8	13.9	2.92	5.752	
800.0	800.0	800.0	800.0	1.7	1.7	-90.01	-90.01	0.0	-16.8	16.8	13.4	3.37	4.985	
900.0	900.0	900.0	900.0	1.9	1.9	-90.01	-90.01	0.0	-16.8	16.8	13.0	3.82	4.398	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-90.01	-90.01	0.0	-16.8	16.8	12.5	4.27	3.935	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-90.01	-90.01	0.0	-16.8	16.8	12.1	4.72	3.561	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-90.01	-90.01	0.0	-16.8	16.8	11.6	5.17	3.251	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-90.01	-90.01	0.0	-16.8	16.8	11.2	5.62	2.991	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-90.01	-90.01	0.0	-16.8	16.8	10.7	6.07	2.769	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-90.01	-90.01	0.0	-16.8	16.8	10.3	6.52	2.578	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-90.01	-90.01	0.0	-16.8	16.8	9.8	6.97	2.412 CC, ES	
1,700.0	1,700.0	1,699.7	1,699.6	3.7	3.7	-92.84	-92.84	-0.9	-17.8	17.8	10.4	7.39	2.407	
1,800.0	1,800.0	1,799.2	1,799.1	3.9	3.9	-99.64	-99.64	-3.5	-20.6	21.0	13.2	7.80	2.688	
1,900.0	1,900.0	1,898.4	1,898.1	4.2	4.1	-107.19	-107.19	-7.9	-25.4	26.7	18.5	8.21	3.249	
2,000.0	2,000.0	1,997.3	1,996.5	4.4	4.3	-113.48	-113.48	-13.9	-32.0	35.1	26.5	8.62	4.073	
2,100.0	2,100.0	2,096.0	2,094.6	4.6	4.5	-118.09	-118.09	-21.6	-40.4	46.2	37.1	9.04	5.105	
2,200.0	2,200.0	2,195.3	2,193.2	4.8	4.7	-121.04	-121.04	-29.6	-49.3	57.9	48.4	9.46	6.119	
2,300.0	2,300.0	2,294.5	2,291.7	5.1	4.9	-122.98	-122.98	-37.7	-58.1	69.8	59.9	9.89	7.054	
2,400.0	2,400.0	2,393.8	2,390.3	5.3	5.2	-124.37	-124.37	-45.8	-66.9	81.7	71.4	10.32	7.915	
2,500.0	2,500.0	2,493.1	2,488.8	5.5	5.4	-125.40	-125.40	-53.8	-75.8	93.6	82.9	10.75	8.708	
2,600.0	2,600.0	2,592.4	2,587.4	5.7	5.7	63.38	63.38	-61.9	-84.6	105.0	93.9	11.15	9.420	
2,700.0	2,699.9	2,691.9	2,686.2	5.9	6.0	64.29	64.29	-70.0	-93.5	115.2	103.7	11.53	9.997	
2,800.0	2,799.7	2,791.4	2,784.9	6.0	6.2	66.13	66.13	-78.1	-102.3	124.4	112.5	11.92	10.441	
2,900.0	2,899.3	2,890.8	2,883.7	6.2	6.5	68.73	68.73	-86.2	-111.2	132.8	120.5	12.32	10.782	
3,000.0	2,998.8	2,990.3	2,982.4	6.4	6.8	71.31	71.31	-94.2	-120.0	141.3	128.6	12.74	11.094	
3,100.0	3,098.4	3,089.7	3,081.1	6.6	7.1	73.59	73.59	-102.3	-128.8	150.1	136.9	13.17	11.394	
3,200.0	3,197.9	3,189.2	3,179.8	6.8	7.4	75.62	75.62	-110.4	-137.7	159.0	145.4	13.61	11.681	
3,300.0	3,297.5	3,288.6	3,278.6	7.0	7.7	77.43	77.43	-118.5	-146.5	168.2	154.1	14.07	11.954	
3,400.0	3,397.0	3,388.1	3,377.3	7.2	8.0	79.05	79.05	-126.5	-155.4	177.4	162.9	14.53	12.212	
3,500.0	3,496.5	3,487.5	3,476.0	7.5	8.3	80.51	80.51	-134.6	-164.2	186.8	171.8	15.00	12.455	
3,600.0	3,596.1	3,588.7	3,576.4	7.7	8.6	81.88	81.88	-142.7	-173.1	196.2	180.7	15.48	12.674	
3,700.0	3,695.6	3,693.2	3,680.4	7.9	8.8	83.44	83.44	-149.6	-180.6	203.7	187.8	15.95	12.769	
3,800.0	3,795.2	3,797.8	3,784.8	8.1	9.0	85.26	85.26	-154.5	-186.0	209.0	192.6	16.43	12.719	
3,900.0	3,894.7	3,902.5	3,889.4	8.4	9.2	87.38	87.38	-157.5	-189.3	212.1	195.2	16.91	12.540	
4,000.0	3,994.2	4,007.1	3,994.0	8.6	9.4	89.85	89.85	-158.6	-190.5	213.2	195.8	17.40	12.254	
4,100.0	4,093.8	4,106.9	4,093.8	8.9	9.6	92.41	92.41	-158.6	-190.5	213.4	195.5	17.87	11.937	
4,200.0	4,193.4	4,206.5	4,193.4	9.1	9.8	94.85	94.85	-158.6	-190.5	213.9	195.6	18.35	11.658	
4,300.0	4,293.1	4,306.2	4,293.1	9.3	10.0	96.64	96.64	-158.6	-190.5	214.6	195.8	18.81	11.410	
4,400.0	4,393.1	4,406.1	4,393.1	9.6	10.2	97.73	97.73	-158.6	-190.5	215.1	195.9	19.25	11.177	
4,500.0	4,493.0	4,506.1	4,493.0	9.8	10.4	98.13	98.13	-158.6	-190.5	215.3	195.7	19.66	10.952	
4,600.0	4,593.0	4,606.1	4,593.0	10.0	10.6	-90.96	-90.96	-158.6	-190.5	215.3	195.3	20.06	10.734	
4,700.0	4,693.0	4,706.1	4,693.0	10.2	10.8	-90.96	-90.96	-158.6	-190.5	215.3	194.9	20.47	10.519	
4,800.0	4,793.0	4,806.1	4,793.0	10.4	11.0	-90.96	-90.96	-158.6	-190.5	215.3	194.5	20.88	10.312	
4,900.0	4,893.0	4,906.1	4,893.0	10.6	11.2	-90.96	-90.96	-158.6	-190.5	215.3	194.0	21.29	10.112	
5,000.0	4,993.0	5,006.1	4,993.0	10.8	11.4	-90.96	-90.96	-158.6	-190.5	215.3	193.6	21.71	9.920	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - 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	5,093.0	5,106.1	5,093.0	11.0	11.6	-90.96	-158.6	-190.5	215.3	193.2	22.12	9.733		
5,200.0	5,193.0	5,206.1	5,193.0	11.2	11.8	-90.96	-158.6	-190.5	215.3	192.8	22.54	9.553		
5,300.0	5,293.0	5,306.1	5,293.0	11.4	12.0	-90.96	-158.6	-190.5	215.3	192.4	22.96	9.379		
5,400.0	5,393.0	5,406.1	5,393.0	11.6	12.2	-90.96	-158.6	-190.5	215.3	192.0	23.38	9.211		
5,500.0	5,493.0	5,506.1	5,493.0	11.9	12.4	-90.96	-158.6	-190.5	215.3	191.5	23.80	9.049		
5,600.0	5,593.0	5,606.1	5,593.0	12.1	12.6	-90.96	-158.6	-190.5	215.3	191.1	24.22	8.891		
5,700.0	5,693.0	5,706.1	5,693.0	12.3	12.8	-90.96	-158.6	-190.5	215.3	190.7	24.64	8.739		
5,800.0	5,793.0	5,806.1	5,793.0	12.5	13.0	-90.96	-158.6	-190.5	215.3	190.3	25.06	8.591		
5,900.0	5,893.0	5,906.1	5,893.0	12.7	13.2	-90.96	-158.6	-190.5	215.3	189.8	25.49	8.448		
6,000.0	5,993.0	6,006.1	5,993.0	12.9	13.4	-90.96	-158.6	-190.5	215.3	189.4	25.91	8.310		
6,100.0	6,093.0	6,106.1	6,093.0	13.1	13.6	-90.96	-158.6	-190.5	215.3	189.0	26.34	8.175		
6,200.0	6,193.0	6,206.1	6,193.0	13.3	13.8	-90.96	-158.6	-190.5	215.3	188.6	26.77	8.045		
6,300.0	6,293.0	6,306.1	6,293.0	13.6	14.0	-90.96	-158.6	-190.5	215.3	188.1	27.19	7.919		
6,400.0	6,393.0	6,406.1	6,393.0	13.8	14.2	-90.96	-158.6	-190.5	215.3	187.7	27.62	7.796		
6,500.0	6,493.0	6,506.1	6,493.0	14.0	14.4	-90.96	-158.6	-190.5	215.3	187.3	28.05	7.677		
6,600.0	6,593.0	6,606.1	6,593.0	14.2	14.7	-90.96	-158.6	-190.5	215.3	186.9	28.48	7.561		
6,700.0	6,693.0	6,706.1	6,693.0	14.4	14.9	-90.96	-158.6	-190.5	215.3	186.4	28.91	7.449		
6,800.0	6,793.0	6,806.3	6,793.2	14.6	15.1	-91.19	-158.3	-190.5	215.3	186.0	29.34	7.339		
6,900.0	6,892.1	6,907.1	6,893.0	14.8	15.3	-91.16	-145.3	-190.5	215.3	185.6	29.69	7.253		
7,000.0	6,986.8	7,008.0	6,988.5	14.9	15.4	-91.09	-113.4	-190.3	215.3	185.4	29.94	7.193		
7,100.0	7,073.9	7,108.7	7,076.0	15.1	15.5	-90.98	-63.7	-190.1	215.3	185.2	30.16	7.139		
7,200.0	7,149.9	7,209.4	7,152.2	15.2	15.6	-90.83	1.8	-189.8	215.3	184.8	30.47	7.067		
7,300.0	7,212.3	7,309.9	7,214.4	15.5	15.7	-90.65	80.6	-189.5	215.3	184.3	30.97	6.952		
7,400.0	7,258.6	7,410.3	7,260.2	15.9	16.0	-90.45	169.8	-189.2	215.3	183.5	31.76	6.778		
7,500.0	7,287.2	7,510.5	7,288.1	16.4	16.6	-90.23	265.9	-188.8	215.3	182.4	32.91	6.542		
7,600.0	7,297.1	7,610.6	7,297.1	17.2	17.3	-90.00	365.4	-188.3	215.3	180.9	34.39	6.259		
7,700.0	7,296.6	7,710.6	7,296.6	18.1	18.2	-89.99	465.4	-187.9	215.3	179.1	36.20	5.947		
7,800.0	7,296.1	7,810.6	7,296.1	19.2	19.3	-89.99	565.4	-187.5	215.3	177.0	38.30	5.620		
7,900.0	7,295.7	7,910.6	7,295.6	20.3	20.4	-89.99	665.4	-187.1	215.3	174.6	40.66	5.295		
8,000.0	7,295.2	8,010.6	7,295.2	21.6	21.7	-89.99	765.4	-186.7	215.3	172.1	43.22	4.981		
8,100.0	7,294.7	8,110.6	7,294.7	23.0	23.1	-89.99	865.4	-186.3	215.3	169.3	45.96	4.684		
8,200.0	7,294.3	8,210.6	7,294.2	24.4	24.5	-89.99	965.4	-185.9	215.3	166.4	48.85	4.407		
8,300.0	7,293.8	8,310.6	7,293.8	26.0	26.0	-89.99	1,065.4	-185.5	215.3	163.4	51.86	4.151		
8,400.0	7,293.3	8,410.6	7,293.3	27.5	27.6	-89.99	1,165.4	-185.1	215.3	160.3	54.97	3.916		
8,500.0	7,292.8	8,510.6	7,292.8	29.1	29.2	-89.99	1,265.4	-184.6	215.3	157.1	58.17	3.701		
8,600.0	7,292.4	8,610.6	7,292.4	30.7	30.8	-89.99	1,365.4	-184.2	215.3	153.8	61.44	3.504		
8,700.0	7,291.9	8,710.6	7,291.9	32.4	32.4	-89.99	1,465.4	-183.8	215.3	150.5	64.77	3.324		
8,800.0	7,291.4	8,810.6	7,291.4	34.1	34.1	-89.99	1,565.4	-183.4	215.3	147.1	68.15	3.159		
8,900.0	7,291.0	8,910.6	7,290.9	35.8	35.8	-89.99	1,665.4	-183.0	215.3	143.7	71.58	3.007		
9,000.0	7,290.5	9,010.6	7,290.5	37.6	37.6	-89.99	1,765.4	-182.6	215.3	140.2	75.04	2.868		
9,100.0	7,290.0	9,110.6	7,290.0	39.3	39.3	-89.99	1,865.4	-182.2	215.3	136.7	78.54	2.741		
9,200.0	7,289.5	9,210.6	7,289.5	41.1	41.1	-89.99	1,965.4	-181.8	215.3	133.2	82.07	2.623		
9,300.0	7,289.1	9,310.6	7,289.1	42.8	42.8	-89.99	2,065.4	-181.4	215.3	129.6	85.63	2.514		
9,400.0	7,288.6	9,410.6	7,288.6	44.6	44.6	-89.99	2,165.4	-180.9	215.3	126.0	89.20	2.413		
9,500.0	7,288.1	9,510.6	7,288.1	46.4	46.4	-89.99	2,265.4	-180.5	215.3	122.4	92.80	2.319		
9,600.0	7,287.7	9,610.6	7,287.6	48.2	48.2	-89.99	2,365.4	-180.1	215.3	118.8	96.42	2.232		
9,700.0	7,287.2	9,710.6	7,287.2	50.1	50.0	-89.99	2,465.4	-179.7	215.2	115.2	100.05	2.151		
9,800.0	7,286.7	9,810.6	7,286.7	51.9	51.9	-89.99	2,565.4	-179.3	215.2	111.6	103.69	2.076		
9,900.0	7,286.2	9,910.6	7,286.2	53.7	53.7	-89.99	2,665.4	-178.9	215.2	107.9	107.35	2.005		
10,000.0	7,285.8	10,010.6	7,285.8	55.5	55.5	-89.99	2,765.4	-178.5	215.2	104.2	111.02	1.939		
10,100.0	7,285.3	10,110.6	7,285.3	57.4	57.4	-89.99	2,865.4	-178.1	215.2	100.5	114.70	1.877		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design										Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - Wellbore #1 - Plan #2 (8				Offset Site Error:		0.0 ft
Survey Program: 0-MWD														Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
10,200.0	7,284.8	10,210.6	7,284.8	59.2	59.2	-89.99	2,965.4	-177.7	215.2	96.9	118.39	1.818				
10,300.0	7,284.4	10,310.6	7,284.3	61.1	61.1	-89.99	3,065.4	-177.2	215.2	93.2	122.09	1.763				
10,400.0	7,283.9	10,410.6	7,283.9	62.9	62.9	-89.99	3,165.4	-176.8	215.2	89.4	125.79	1.711				
10,500.0	7,283.4	10,510.6	7,283.4	64.8	64.8	-89.99	3,265.3	-176.4	215.2	85.7	129.51	1.662				
10,600.0	7,282.9	10,610.6	7,282.9	66.7	66.6	-89.99	3,365.3	-176.0	215.2	82.0	133.22	1.616				
10,700.0	7,282.5	10,710.6	7,282.5	68.5	68.5	-89.99	3,465.3	-175.6	215.2	78.3	136.95	1.572				
10,800.0	7,282.0	10,810.6	7,282.0	70.4	70.3	-89.99	3,565.3	-175.2	215.2	74.6	140.68	1.530				
10,900.0	7,281.5	10,910.6	7,281.5	72.2	72.2	-89.99	3,665.3	-174.8	215.2	70.8	144.42	1.490	Level 3			
11,000.0	7,281.1	11,010.6	7,281.0	74.1	74.1	-89.99	3,765.3	-174.4	215.2	67.1	148.16	1.453	Level 3			
11,100.0	7,280.6	11,110.6	7,280.6	76.0	76.0	-89.99	3,865.3	-173.9	215.2	63.3	151.90	1.417	Level 3			
11,200.0	7,280.1	11,210.6	7,280.1	77.9	77.8	-89.99	3,965.3	-173.5	215.2	59.6	155.65	1.383	Level 3			
11,300.0	7,279.6	11,310.6	7,279.6	79.7	79.7	-89.99	4,065.3	-173.1	215.2	55.8	159.40	1.350	Level 3			
11,400.0	7,279.2	11,410.6	7,279.2	81.6	81.6	-89.99	4,165.3	-172.7	215.2	52.1	163.16	1.319	Level 3			
11,500.0	7,278.7	11,510.6	7,278.7	83.5	83.5	-89.99	4,265.3	-172.3	215.2	48.3	166.92	1.289	Level 3			
11,600.0	7,278.2	11,610.6	7,278.2	85.4	85.3	-89.99	4,365.3	-171.9	215.2	44.5	170.68	1.261	Level 3			
11,700.0	7,277.8	11,710.6	7,277.7	87.3	87.2	-89.99	4,465.3	-171.5	215.2	40.8	174.45	1.234	Level 2			
11,800.0	7,277.3	11,810.6	7,277.3	89.1	89.1	-89.99	4,565.3	-171.1	215.2	37.0	178.18	1.208	Level 2			
11,844.8	7,277.1	11,855.4	7,277.1	90.0	89.7	-89.99	4,610.1	-170.9	215.2	35.5	179.70	1.198	Level 2			
11,862.0	7,277.0	11,868.1	7,277.0	90.3	89.9	-89.99	4,622.8	-170.8	215.3	35.0	180.22	1.194	Level 2, SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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)	Offset Wellbore Centre +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	90.00	0.0	14.0	14.0	14.0	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	90.00	90.00	0.0	14.0	14.0	13.8	0.22	62.309	
200.0	200.0	200.0	200.0	0.3	0.3	90.00	90.00	0.0	14.0	14.0	13.3	0.67	20.770	
300.0	300.0	300.0	300.0	0.6	0.6	90.00	90.00	0.0	14.0	14.0	12.9	1.12	12.462	
400.0	400.0	400.0	400.0	0.8	0.8	90.00	90.00	0.0	14.0	14.0	12.4	1.57	8.901	
500.0	500.0	500.0	500.0	1.0	1.0	90.00	90.00	0.0	14.0	14.0	12.0	2.02	6.923	
600.0	600.0	600.0	600.0	1.2	1.2	90.00	90.00	0.0	14.0	14.0	11.5	2.47	5.664	
700.0	700.0	700.0	700.0	1.5	1.5	90.00	90.00	0.0	14.0	14.0	11.1	2.92	4.793	
800.0	800.0	800.0	800.0	1.7	1.7	90.00	90.00	0.0	14.0	14.0	10.6	3.37	4.154	
900.0	900.0	900.0	900.0	1.9	1.9	90.00	90.00	0.0	14.0	14.0	10.2	3.82	3.665	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.00	90.00	0.0	14.0	14.0	9.7	4.27	3.279	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.00	90.00	0.0	14.0	14.0	9.3	4.72	2.967	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.00	90.00	0.0	14.0	14.0	8.8	5.17	2.709	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.00	90.00	0.0	14.0	14.0	8.4	5.62	2.492	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.00	90.00	0.0	14.0	14.0	7.9	6.07	2.308	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	90.00	90.00	0.0	14.0	14.0	7.5	6.52	2.149	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	90.00	90.00	0.0	14.0	14.0	7.0	6.97	2.010	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	90.00	90.00	0.0	14.0	14.0	6.6	7.42	1.888	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	90.00	90.00	0.0	14.0	14.0	6.1	7.87	1.780 CC, ES, SF	
1,900.0	1,900.0	1,899.7	1,899.7	4.2	4.1	93.90	93.90	-1.0	14.8	14.9	6.6	8.29	1.793	
2,000.0	2,000.0	1,999.4	1,999.3	4.4	4.3	103.14	103.14	-4.0	17.3	17.8	9.1	8.69	2.044	
2,100.0	2,100.0	2,098.7	2,098.4	4.6	4.5	112.97	112.97	-9.1	21.4	23.3	14.2	9.10	2.557	
2,200.0	2,200.0	2,197.6	2,196.9	4.8	4.7	120.68	120.68	-16.0	27.0	31.6	22.1	9.51	3.324	
2,300.0	2,300.0	2,296.8	2,295.4	5.1	4.9	125.87	125.87	-24.6	34.0	42.2	32.3	9.92	4.250	
2,400.0	2,400.0	2,396.1	2,394.2	5.3	5.1	129.01	129.01	-33.2	41.0	53.1	42.7	10.34	5.134	
2,500.0	2,500.0	2,495.5	2,492.9	5.5	5.3	131.07	131.07	-41.9	48.0	64.1	53.3	10.76	5.957	
2,600.0	2,600.0	2,595.0	2,591.8	5.7	5.6	-38.92	-38.92	-50.5	55.1	74.2	63.0	11.15	6.650	
2,700.0	2,699.9	2,694.7	2,690.8	5.9	5.8	-39.35	-39.35	-59.2	62.1	82.2	70.7	11.52	7.136	
2,800.0	2,799.7	2,794.4	2,790.0	6.0	6.1	-40.79	-40.79	-67.9	69.2	88.3	76.4	11.89	7.421	
2,900.0	2,899.3	2,894.3	2,889.2	6.2	6.3	-43.10	-43.10	-76.6	76.2	92.5	80.3	12.28	7.538	
3,000.0	2,998.8	2,994.1	2,988.4	6.4	6.6	-45.46	-45.46	-85.2	83.3	96.6	83.9	12.68	7.615	
3,100.0	3,098.4	3,094.0	3,087.6	6.6	6.9	-47.63	-47.63	-93.9	90.4	100.8	87.7	13.10	7.694	
3,200.0	3,197.9	3,193.8	3,186.8	6.8	7.1	-49.63	-49.63	-102.6	97.4	105.1	91.6	13.52	7.770	
3,300.0	3,297.5	3,293.7	3,286.0	7.0	7.4	-51.46	-51.46	-111.3	104.5	109.5	95.6	13.96	7.845	
3,400.0	3,397.0	3,393.5	3,385.3	7.2	7.7	-53.16	-53.16	-120.0	111.5	114.1	99.7	14.41	7.917	
3,500.0	3,496.5	3,493.3	3,484.5	7.5	8.0	-54.72	-54.72	-128.7	118.6	118.7	103.8	14.86	7.986	
3,600.0	3,596.1	3,593.5	3,584.0	7.7	8.2	-56.17	-56.17	-137.4	125.7	123.4	108.1	15.33	8.050	
3,700.0	3,695.6	3,696.4	3,686.4	7.9	8.5	-57.90	-57.90	-145.0	131.9	126.7	110.9	15.80	8.021	
3,800.0	3,795.2	3,799.3	3,789.1	8.1	8.7	-60.16	-60.16	-150.5	136.3	127.8	111.5	16.27	7.853	
3,900.0	3,894.7	3,902.0	3,891.7	8.4	8.9	-63.04	-63.04	-153.8	139.0	126.8	110.0	16.76	7.565	
4,000.0	3,994.2	4,004.4	3,994.1	8.6	9.1	-66.70	-66.70	-155.0	140.0	123.9	106.7	17.26	7.182	
4,100.0	4,093.8	4,104.1	4,093.8	8.9	9.3	-70.87	-70.87	-155.0	140.0	120.5	102.7	17.76	6.784	
4,200.0	4,193.4	4,203.7	4,193.4	9.1	9.5	-75.02	-75.02	-155.0	140.0	117.8	99.5	18.26	6.449	
4,300.0	4,293.1	4,303.5	4,293.1	9.3	9.7	-78.20	-78.20	-155.0	140.0	116.2	97.5	18.74	6.201	
4,400.0	4,393.1	4,403.4	4,393.1	9.6	9.9	-80.18	-80.18	-155.0	140.0	115.5	96.3	19.20	6.015	
4,500.0	4,493.0	4,503.4	4,493.0	9.8	10.1	-80.91	-80.91	-155.0	140.0	115.2	95.6	19.61	5.874	
4,540.8	4,533.9	4,544.2	4,533.9	9.9	10.2	-80.94	-80.94	-155.0	140.0	115.2	95.4	19.78	5.824	
4,600.0	4,593.0	4,603.4	4,593.0	10.0	10.3	90.00	90.00	-155.0	140.0	115.2	95.2	20.02	5.754	
4,700.0	4,693.0	4,703.4	4,693.0	10.2	10.5	90.00	90.00	-155.0	140.0	115.2	94.8	20.43	5.638	
4,800.0	4,793.0	4,803.4	4,793.0	10.4	10.7	90.00	90.00	-155.0	140.0	115.2	94.4	20.85	5.527	
4,900.0	4,893.0	4,903.4	4,893.0	10.6	10.9	90.00	90.00	-155.0	140.0	115.2	93.9	21.26	5.419	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.0	4,993.0	5,003.4	4,993.0	10.8	11.1	90.00		-155.0	140.0	115.2	93.5	21.68	5.315	
5,100.0	5,093.0	5,103.4	5,093.0	11.0	11.3	90.00		-155.0	140.0	115.2	93.1	22.09	5.214	
5,200.0	5,193.0	5,203.4	5,193.0	11.2	11.5	90.00		-155.0	140.0	115.2	92.7	22.51	5.117	
5,300.0	5,293.0	5,303.4	5,293.0	11.4	11.7	90.00		-155.0	140.0	115.2	92.3	22.93	5.024	
5,400.0	5,393.0	5,403.4	5,393.0	11.6	11.9	90.00		-155.0	140.0	115.2	91.9	23.35	4.933	
5,500.0	5,493.0	5,503.4	5,493.0	11.9	12.2	90.00		-155.0	140.0	115.2	91.4	23.78	4.846	
5,600.0	5,593.0	5,603.4	5,593.0	12.1	12.4	90.00		-155.0	140.0	115.2	91.0	24.20	4.761	
5,700.0	5,693.0	5,703.4	5,693.0	12.3	12.6	90.00		-155.0	140.0	115.2	90.6	24.62	4.679	
5,800.0	5,793.0	5,803.4	5,793.0	12.5	12.8	90.00		-155.0	140.0	115.2	90.2	25.05	4.600	
5,900.0	5,893.0	5,903.4	5,893.0	12.7	13.0	90.00		-155.0	140.0	115.2	89.7	25.47	4.523	
6,000.0	5,993.0	6,003.4	5,993.0	12.9	13.2	90.00		-155.0	140.0	115.2	89.3	25.90	4.448	
6,100.0	6,093.0	6,103.4	6,093.0	13.1	13.4	90.00		-155.0	140.0	115.2	88.9	26.33	4.376	
6,200.0	6,193.0	6,203.4	6,193.0	13.3	13.6	90.00		-155.0	140.0	115.2	88.5	26.75	4.306	
6,300.0	6,293.0	6,303.4	6,293.0	13.6	13.8	90.00		-155.0	140.0	115.2	88.0	27.18	4.238	
6,400.0	6,393.0	6,403.4	6,393.0	13.8	14.1	90.00		-155.0	140.0	115.2	87.6	27.61	4.172	
6,500.0	6,493.0	6,503.4	6,493.0	14.0	14.3	90.00		-155.0	140.0	115.2	87.2	28.04	4.108	
6,600.0	6,593.0	6,603.4	6,593.0	14.2	14.5	90.00		-155.0	140.0	115.2	86.7	28.47	4.046	
6,700.0	6,693.0	6,703.4	6,693.0	14.4	14.7	90.00		-155.0	140.0	115.2	86.3	28.90	3.986	
6,800.0	6,793.0	6,803.4	6,793.0	14.6	14.9	89.85		-154.9	140.0	115.2	85.9	29.33	3.928	
6,819.1	6,812.1	6,822.4	6,812.1	14.7	14.9	90.04		-154.3	140.0	115.2	85.8	29.40	3.918	
6,900.0	6,892.1	6,903.4	6,892.7	14.8	15.1	91.89		-146.2	140.0	115.3	85.6	29.67	3.884	
7,000.0	6,986.8	7,004.1	6,990.7	14.9	15.3	96.45		-123.5	140.1	115.9	86.1	29.89	3.879	
7,100.0	7,073.9	7,105.9	7,085.5	15.1	15.4	103.22		-86.9	140.3	118.4	88.5	29.92	3.958	
7,200.0	7,149.9	7,209.4	7,175.6	15.2	15.5	111.55		-36.3	140.5	124.3	94.7	29.58	4.200	
7,300.0	7,212.3	7,315.1	7,259.2	15.5	15.7	120.50		28.3	140.8	134.9	106.2	28.67	4.705	
7,400.0	7,258.6	7,423.9	7,334.4	15.9	15.9	129.08		106.9	141.1	151.2	124.0	27.22	5.555	
7,500.0	7,287.2	7,536.7	7,398.8	16.4	16.4	136.66		199.4	141.5	173.1	147.5	25.62	6.757	
7,600.0	7,297.1	7,654.8	7,449.8	17.2	17.1	143.00		305.7	141.9	200.0	175.5	24.45	8.180	
7,700.0	7,296.6	7,782.7	7,484.5	18.1	18.2	148.47		428.7	142.4	223.2	199.3	23.90	9.340	
7,800.0	7,296.1	7,919.6	7,496.9	19.2	19.6	150.15		564.8	143.0	231.5	206.8	24.70	9.372	
7,900.0	7,295.7	8,019.6	7,496.5	20.3	20.7	150.16		664.8	143.4	231.5	205.6	25.99	8.909	
8,000.0	7,295.2	8,119.6	7,496.2	21.6	22.0	150.17		764.8	143.8	231.6	204.2	27.41	8.451	
8,100.0	7,294.7	8,219.6	7,495.8	23.0	23.3	150.19		864.8	144.2	231.7	202.8	28.94	8.007	
8,200.0	7,294.3	8,319.6	7,495.4	24.4	24.7	150.20		964.8	144.6	231.8	201.3	30.56	7.585	
8,300.0	7,293.8	8,419.6	7,495.1	26.0	26.2	150.21		1,064.8	145.0	231.9	199.6	32.26	7.188	
8,400.0	7,293.3	8,519.6	7,494.7	27.5	27.8	150.23		1,164.8	145.4	232.0	198.0	34.03	6.817	
8,500.0	7,292.8	8,619.6	7,494.3	29.1	29.3	150.24		1,264.8	145.8	232.1	196.2	35.86	6.472	
8,600.0	7,292.4	8,719.6	7,494.0	30.7	31.0	150.25		1,364.8	146.2	232.2	194.5	37.73	6.153	
8,700.0	7,291.9	8,819.6	7,493.6	32.4	32.6	150.26		1,464.8	146.7	232.3	192.6	39.65	5.858	
8,800.0	7,291.4	8,919.6	7,493.2	34.1	34.3	150.28		1,564.8	147.1	232.4	190.8	41.60	5.586	
8,900.0	7,291.0	9,019.6	7,492.9	35.8	36.0	150.29		1,664.8	147.5	232.5	188.9	43.58	5.334	
9,000.0	7,290.5	9,119.6	7,492.5	37.6	37.7	150.30		1,764.8	147.9	232.6	187.0	45.59	5.101	
9,100.0	7,290.0	9,219.6	7,492.1	39.3	39.4	150.31		1,864.8	148.3	232.6	185.0	47.62	4.885	
9,200.0	7,289.5	9,319.6	7,491.8	41.1	41.2	150.33		1,964.8	148.7	232.7	183.1	49.68	4.685	
9,300.0	7,289.1	9,419.6	7,491.4	42.8	43.0	150.34		2,064.8	149.1	232.8	181.1	51.75	4.499	
9,400.0	7,288.6	9,519.6	7,491.0	44.6	44.7	150.35		2,164.8	149.5	232.9	179.1	53.83	4.327	
9,500.0	7,288.1	9,619.6	7,490.7	46.4	46.5	150.36		2,264.8	149.9	233.0	177.1	55.93	4.166	
9,600.0	7,287.7	9,719.6	7,490.3	48.2	48.3	150.38		2,364.8	150.3	233.1	175.1	58.04	4.016	
9,700.0	7,287.2	9,819.6	7,489.9	50.1	50.1	150.39		2,464.7	150.8	233.2	173.0	60.16	3.876	
9,800.0	7,286.7	9,919.6	7,489.6	51.9	52.0	150.40		2,564.7	151.2	233.3	171.0	62.29	3.745	
9,900.0	7,286.2	10,019.6	7,489.2	53.7	53.8	150.42		2,664.7	151.6	233.4	168.9	64.43	3.622	

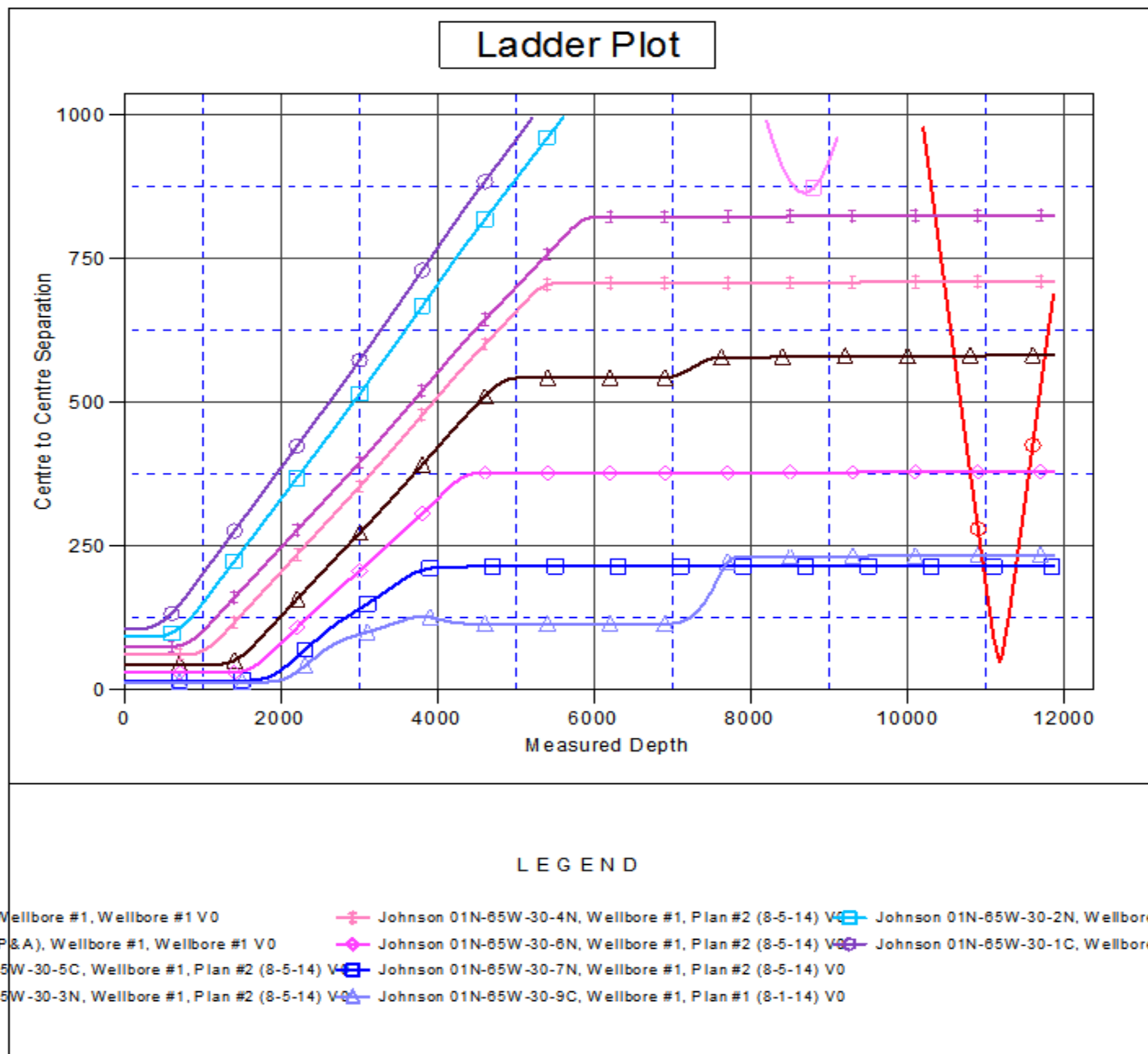
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	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
10,000.0	7,285.8	10,119.6	7,488.8	55.5	55.6	150.43	2,764.7	152.0	233.5	166.9	66.57	3.507	
10,100.0	7,285.3	10,219.6	7,488.5	57.4	57.5	150.44	2,864.7	152.4	233.6	164.8	68.73	3.398	
10,200.0	7,284.8	10,319.6	7,488.1	59.2	59.3	150.45	2,964.7	152.8	233.6	162.8	70.88	3.296	
10,300.0	7,284.4	10,419.6	7,487.7	61.1	61.1	150.47	3,064.7	153.2	233.7	160.7	73.05	3.200	
10,400.0	7,283.9	10,519.6	7,487.4	62.9	63.0	150.48	3,164.7	153.6	233.8	158.6	75.22	3.109	
10,500.0	7,283.4	10,619.6	7,487.0	64.8	64.8	150.49	3,264.7	154.0	233.9	156.5	77.39	3.023	
10,600.0	7,282.9	10,719.6	7,486.6	66.7	66.7	150.50	3,364.7	154.5	234.0	154.4	79.57	2.941	
10,700.0	7,282.5	10,819.6	7,486.3	68.5	68.5	150.52	3,464.7	154.9	234.1	152.4	81.75	2.864	
10,800.0	7,282.0	10,919.6	7,485.9	70.4	70.4	150.53	3,564.7	155.3	234.2	150.3	83.93	2.790	
10,900.0	7,281.5	11,019.6	7,485.5	72.2	72.3	150.54	3,664.7	155.7	234.3	148.2	86.11	2.721	
11,000.0	7,281.1	11,119.6	7,485.2	74.1	74.1	150.55	3,764.7	156.1	234.4	146.1	88.30	2.654	
11,100.0	7,280.6	11,219.6	7,484.8	76.0	76.0	150.57	3,864.7	156.5	234.5	144.0	90.49	2.591	
11,200.0	7,280.1	11,319.6	7,484.4	77.9	77.9	150.58	3,964.7	156.9	234.6	141.9	92.69	2.531	
11,300.0	7,279.6	11,419.6	7,484.1	79.7	79.8	150.59	4,064.7	157.3	234.7	139.8	94.88	2.473	
11,400.0	7,279.2	11,519.6	7,483.7	81.6	81.6	150.60	4,164.7	157.7	234.7	137.7	97.08	2.418	
11,500.0	7,278.7	11,619.6	7,483.3	83.5	83.5	150.62	4,264.7	158.1	234.8	135.6	99.27	2.366	
11,600.0	7,278.2	11,719.6	7,483.0	85.4	85.4	150.63	4,364.7	158.6	234.9	133.5	101.47	2.315	
11,700.0	7,277.8	11,819.6	7,482.6	87.3	87.3	150.64	4,464.7	159.0	235.0	131.3	103.67	2.267	
11,800.0	7,277.3	11,919.6	7,482.2	89.1	89.1	150.65	4,564.7	159.4	235.1	129.2	105.87	2.221	
11,862.0	7,277.0	11,981.4	7,482.0	90.3	90.3	150.66	4,626.5	159.6	235.2	127.9	107.24	2.193	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5012.0ft (Original Well Elev) Coordinates are relative to: Johnson 01N-65W-30-8N
 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°



Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-8N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-8N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5012.0ft (Original Well Elev) Coordinates are relative to: Johnson 01N-65W-30-8N
 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°

