

Verdad Oil & Gas Corporation

Well Name: **Johnson 01N-65W-30-7N**

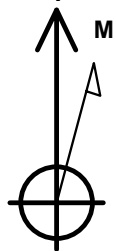
Surface Location: Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4999.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1249523.32	3221368.55	40.015620	-104.709640	

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	-1289.6	Polygon
460' Setback SHL	0.0	251.4	-1289.6	Polygon
Sectionline	0.0	-208.6	-1289.6	Polygon
SHL 205'FSL & 1824'FWL	1.0	0.0	0.0	Point
Gilmore 1-30 300' Circle	22.0	3941.2	9.2	Circle (Radius: 300.0)
BHL 460'FNL & 1650'FWL	7277.0	4622.8	-154.0	Point



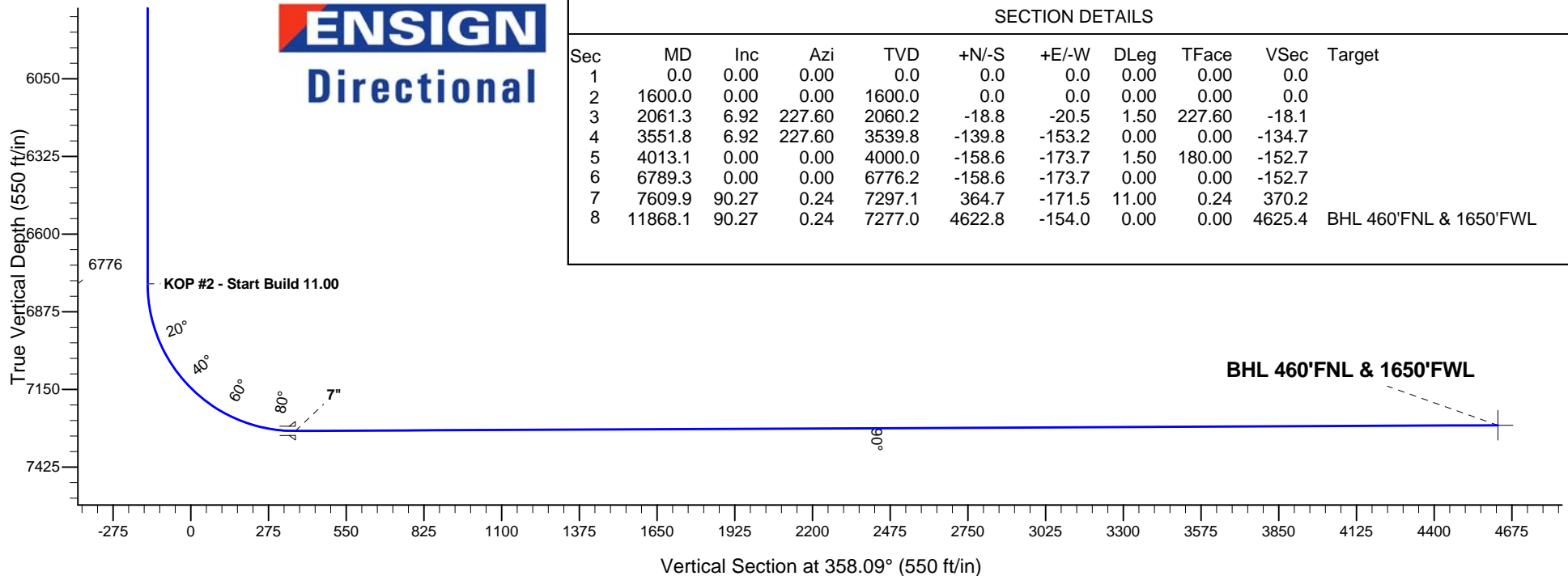
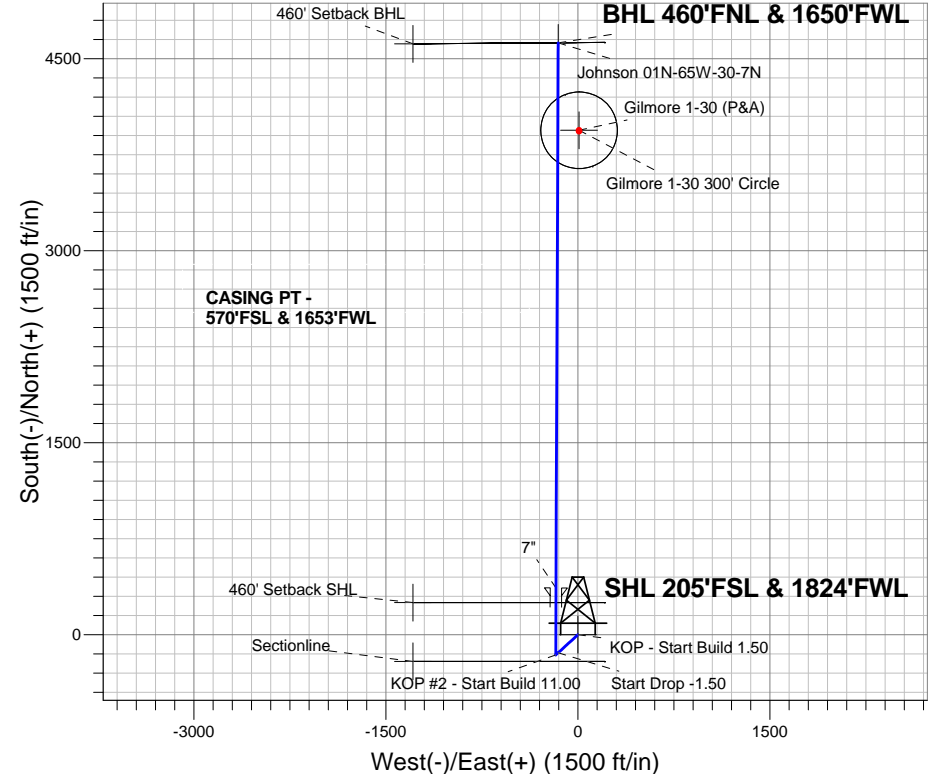
Azimuths to True North
Magnetic North: 8.38°

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

Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W
Johnson 01N-65W-30-7N
Plan #2 (8-5-14)

ANNOTATIONS

TVD	MD	Annotation
1600.0	1600.0	KOP - Start Build 1.50
3539.8	3551.8	Start Drop -1.50
6776.2	6789.3	KOP #2 - Start Build 11.00
7277.0	11868.1	TD at 11868.1





Verdad Oil & Gas Corporation

SEC.30-T1N-R65W

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

Johnson 01N-65W-30-7N

Wellbore #1

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

Standard Planning Report

05 August, 2014

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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:	1,249,518.89 ft
From:	Lat/Long	Easting:	3,221,278.95 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.015610
		Longitude:	-104.709960
		Grid Convergence:	0.51 °

Well	Johnson 01N-65W-30-7N		
Well Position	+N/-S	3.6 ft	Northing:
	+E/-W	89.6 ft	Easting:
Position Uncertainty		0.0 ft	Wellhead Elevation:
			ft
			Latitude:
			40.015620
			Longitude:
			-104.709640
			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	358.09

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	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,061.3	6.92	227.60	2,060.2	-18.8	-20.5	1.50	1.50	0.00	227.60	
3,551.8	6.92	227.60	3,539.8	-139.8	-153.2	0.00	0.00	0.00	0.00	
4,013.1	0.00	0.00	4,000.0	-158.6	-173.7	1.50	-1.50	0.00	180.00	
6,789.3	0.00	0.00	6,776.2	-158.6	-173.7	0.00	0.00	0.00	0.00	
7,609.9	90.27	0.24	7,297.1	364.7	-171.5	11.00	11.00	0.00	0.24	
11,868.1	90.27	0.24	7,277.0	4,622.8	-154.0	0.00	0.00	0.00	0.00	BHL 460'FNL & 165'

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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
KOP - Start Build 1.50									
1,700.0	1.50	227.60	1,700.0	-0.9	-1.0	-0.8	1.50	1.50	0.00
1,800.0	3.00	227.60	1,799.9	-3.5	-3.9	-3.4	1.50	1.50	0.00
1,900.0	4.50	227.60	1,899.7	-7.9	-8.7	-7.6	1.50	1.50	0.00
2,000.0	6.00	227.60	1,999.3	-14.1	-15.5	-13.6	1.50	1.50	0.00
2,061.3	6.92	227.60	2,060.2	-18.8	-20.5	-18.1	1.50	1.50	0.00
2,100.0	6.92	227.60	2,098.6	-21.9	-24.0	-21.1	0.00	0.00	0.00
2,200.0	6.92	227.60	2,197.9	-30.0	-32.9	-28.9	0.00	0.00	0.00
2,300.0	6.92	227.60	2,297.1	-38.2	-41.8	-36.7	0.00	0.00	0.00
2,400.0	6.92	227.60	2,396.4	-46.3	-50.7	-44.6	0.00	0.00	0.00
2,500.0	6.92	227.60	2,495.7	-54.4	-59.6	-52.4	0.00	0.00	0.00
2,600.0	6.92	227.60	2,595.0	-62.5	-68.5	-60.2	0.00	0.00	0.00
2,700.0	6.92	227.60	2,694.2	-70.6	-77.4	-68.0	0.00	0.00	0.00
2,800.0	6.92	227.60	2,793.5	-78.8	-86.3	-75.9	0.00	0.00	0.00
2,900.0	6.92	227.60	2,892.8	-86.9	-95.2	-83.7	0.00	0.00	0.00
3,000.0	6.92	227.60	2,992.0	-95.0	-104.1	-91.5	0.00	0.00	0.00
3,100.0	6.92	227.60	3,091.3	-103.1	-113.0	-99.3	0.00	0.00	0.00
3,200.0	6.92	227.60	3,190.6	-111.3	-121.9	-107.1	0.00	0.00	0.00
3,300.0	6.92	227.60	3,289.9	-119.4	-130.8	-115.0	0.00	0.00	0.00
3,400.0	6.92	227.60	3,389.1	-127.5	-139.6	-122.8	0.00	0.00	0.00
3,500.0	6.92	227.60	3,488.4	-135.6	-148.5	-130.6	0.00	0.00	0.00
3,551.8	6.92	227.60	3,539.8	-139.8	-153.2	-134.7	0.00	0.00	0.00
Start Drop -1.50									
3,600.0	6.20	227.60	3,587.7	-143.6	-157.2	-138.2	1.50	-1.50	0.00
3,700.0	4.70	227.60	3,687.3	-150.0	-164.2	-144.4	1.50	-1.50	0.00
3,800.0	3.20	227.60	3,787.0	-154.6	-169.3	-148.9	1.50	-1.50	0.00
3,900.0	1.70	227.60	3,886.9	-157.5	-172.5	-151.6	1.50	-1.50	0.00
4,000.0	0.20	227.60	3,986.9	-158.6	-173.7	-152.7	1.50	-1.50	0.00
4,013.1	0.00	0.00	4,000.0	-158.6	-173.7	-152.7	1.50	-1.50	0.00
4,100.0	0.00	0.00	4,086.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
4,200.0	0.00	0.00	4,186.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
4,300.0	0.00	0.00	4,286.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
4,400.0	0.00	0.00	4,386.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
4,500.0	0.00	0.00	4,486.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,586.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
4,700.0	0.00	0.00	4,686.9	-158.6	-173.7	-152.7	0.00	0.00	0.00

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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	4,786.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,886.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
5,000.0	0.00	0.00	4,986.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
5,100.0	0.00	0.00	5,086.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,186.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,286.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,386.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,486.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,586.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,686.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,786.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,886.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,986.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,086.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,186.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,286.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,386.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,486.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,586.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,686.9	-158.6	-173.7	-152.7	0.00	0.00	0.00
6,789.3	0.00	0.00	6,776.2	-158.6	-173.7	-152.7	0.00	0.00	0.00
KOP #2 - Start Build 11.00									
6,800.0	1.18	0.24	6,786.9	-158.5	-173.7	-152.6	11.00	11.00	0.00
6,900.0	12.18	0.24	6,886.1	-146.9	-173.7	-141.0	11.00	11.00	0.00
7,000.0	23.18	0.24	6,981.2	-116.6	-173.5	-110.7	11.00	11.00	0.00
7,100.0	34.18	0.24	7,068.8	-68.6	-173.3	-62.8	11.00	11.00	0.00
7,200.0	45.18	0.24	7,145.6	-4.9	-173.1	0.9	11.00	11.00	0.00
7,300.0	56.18	0.24	7,208.9	72.3	-172.7	78.1	11.00	11.00	0.00
7,400.0	67.18	0.24	7,256.3	160.2	-172.4	165.9	11.00	11.00	0.00
7,500.0	78.18	0.24	7,286.0	255.5	-172.0	261.1	11.00	11.00	0.00
7,600.0	89.18	0.24	7,297.0	354.8	-171.6	360.3	11.00	11.00	0.00
7,609.9	90.27	0.24	7,297.1	364.7	-171.5	370.2	11.00	11.00	0.00
7"									
7,700.0	90.27	0.24	7,296.6	454.8	-171.2	460.2	0.00	0.00	0.00
7,800.0	90.27	0.24	7,296.2	554.8	-170.8	560.2	0.00	0.00	0.00
7,900.0	90.27	0.24	7,295.7	654.8	-170.4	660.1	0.00	0.00	0.00
8,000.0	90.27	0.24	7,295.2	754.8	-169.9	760.0	0.00	0.00	0.00
8,100.0	90.27	0.24	7,294.8	854.8	-169.5	859.9	0.00	0.00	0.00
8,200.0	90.27	0.24	7,294.3	954.8	-169.1	959.9	0.00	0.00	0.00
8,300.0	90.27	0.24	7,293.8	1,054.8	-168.7	1,059.8	0.00	0.00	0.00
8,400.0	90.27	0.24	7,293.3	1,154.8	-168.3	1,159.7	0.00	0.00	0.00
8,500.0	90.27	0.24	7,292.9	1,254.8	-167.9	1,259.7	0.00	0.00	0.00
8,600.0	90.27	0.24	7,292.4	1,354.8	-167.5	1,359.6	0.00	0.00	0.00
8,700.0	90.27	0.24	7,291.9	1,454.8	-167.1	1,459.5	0.00	0.00	0.00
8,800.0	90.27	0.24	7,291.5	1,554.8	-166.7	1,559.4	0.00	0.00	0.00
8,900.0	90.27	0.24	7,291.0	1,654.8	-166.2	1,659.4	0.00	0.00	0.00
9,000.0	90.27	0.24	7,290.5	1,754.8	-165.8	1,759.3	0.00	0.00	0.00
9,100.0	90.27	0.24	7,290.0	1,854.8	-165.4	1,859.2	0.00	0.00	0.00
9,200.0	90.27	0.24	7,289.6	1,954.8	-165.0	1,959.2	0.00	0.00	0.00
9,300.0	90.27	0.24	7,289.1	2,054.8	-164.6	2,059.1	0.00	0.00	0.00
9,400.0	90.27	0.24	7,288.6	2,154.8	-164.2	2,159.0	0.00	0.00	0.00
9,500.0	90.27	0.24	7,288.2	2,254.7	-163.8	2,259.0	0.00	0.00	0.00
9,600.0	90.27	0.24	7,287.7	2,354.7	-163.4	2,358.9	0.00	0.00	0.00

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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	0.24	7,287.2	2,454.7	-162.9	2,458.8	0.00	0.00	0.00
9,800.0	90.27	0.24	7,286.7	2,554.7	-162.5	2,558.7	0.00	0.00	0.00
9,900.0	90.27	0.24	7,286.3	2,654.7	-162.1	2,658.7	0.00	0.00	0.00
10,000.0	90.27	0.24	7,285.8	2,754.7	-161.7	2,758.6	0.00	0.00	0.00
10,100.0	90.27	0.24	7,285.3	2,854.7	-161.3	2,858.5	0.00	0.00	0.00
10,200.0	90.27	0.24	7,284.9	2,954.7	-160.9	2,958.5	0.00	0.00	0.00
10,300.0	90.27	0.24	7,284.4	3,054.7	-160.5	3,058.4	0.00	0.00	0.00
10,400.0	90.27	0.24	7,283.9	3,154.7	-160.1	3,158.3	0.00	0.00	0.00
10,500.0	90.27	0.24	7,283.4	3,254.7	-159.7	3,258.2	0.00	0.00	0.00
10,600.0	90.27	0.24	7,283.0	3,354.7	-159.2	3,358.2	0.00	0.00	0.00
10,700.0	90.27	0.24	7,282.5	3,454.7	-158.8	3,458.1	0.00	0.00	0.00
10,800.0	90.27	0.24	7,282.0	3,554.7	-158.4	3,558.0	0.00	0.00	0.00
10,900.0	90.27	0.24	7,281.6	3,654.7	-158.0	3,658.0	0.00	0.00	0.00
11,000.0	90.27	0.24	7,281.1	3,754.7	-157.6	3,757.9	0.00	0.00	0.00
11,100.0	90.27	0.24	7,280.6	3,854.7	-157.2	3,857.8	0.00	0.00	0.00
11,200.0	90.27	0.24	7,280.1	3,954.7	-156.8	3,957.7	0.00	0.00	0.00
11,300.0	90.27	0.24	7,279.7	4,054.7	-156.4	4,057.7	0.00	0.00	0.00
11,400.0	90.27	0.24	7,279.2	4,154.7	-156.0	4,157.6	0.00	0.00	0.00
11,500.0	90.27	0.24	7,278.7	4,254.7	-155.5	4,257.5	0.00	0.00	0.00
11,600.0	90.27	0.24	7,278.3	4,354.7	-155.1	4,357.5	0.00	0.00	0.00
11,700.0	90.27	0.24	7,277.8	4,454.7	-154.7	4,457.4	0.00	0.00	0.00
11,800.0	90.27	0.24	7,277.3	4,554.7	-154.3	4,557.3	0.00	0.00	0.00
11,868.1	90.27	0.24	7,277.0	4,622.8	-154.0	4,625.4	0.00	0.00	0.00
TD at 11868.1									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,609.9	7,297.1	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,600.0	1,600.0	0.0	0.0	KOP - Start Build 1.50
3,551.8	3,539.8	-18.8	-20.5	Start Drop -1.50
6,789.3	6,776.2	-139.8	-153.2	KOP #2 - Start Build 11.00
11,868.1	7,277.0	-158.6	-173.7	TD at 11868.1



Verdad Oil & Gas Corporation

SEC.30-T1N-R65W

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

Johnson 01N-65W-30-7N

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-30-7N
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-30-7N	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:	ISCWSA
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	11,867.4	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	11,187.2	7,259.2	166.1	-56.5	0.746	Level 1, CC, ES, SF
Lehl 1 (P&A) - Wellbore #1 - Wellbore #1	8,692.1	7,287.0	649.9	472.1	3.656	CC
Lehl 1 (P&A) - Wellbore #1 - Wellbore #1	8,700.0	7,286.9	650.0	472.0	3.653	ES, 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	89.7	89.2	170.807	CC
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	200.0	200.0	89.7	89.0	133.044	ES
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	3,800.0	3,747.9	532.8	514.4	29.021	SF
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	366.3	367.3	75.7	74.3	53.161	CC
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	400.0	400.0	75.7	74.1	48.127	ES
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	11,868.1	11,732.0	847.3	670.6	4.796	SF
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14)	566.3	567.3	58.9	56.6	25.366	CC
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14)	600.0	600.0	58.9	56.5	23.840	ES
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14)	11,868.1	11,905.5	610.9	430.6	3.389	SF
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8-5-14)	766.3	767.3	44.8	41.6	13.908	CC
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8-5-14)	800.0	801.0	44.8	41.4	13.285	ES
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8-5-14)	11,868.1	11,899.4	495.7	315.6	2.752	SF
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #2 (8-5-14)	1,166.3	1,167.3	28.0	23.0	5.579	CC
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #2 (8-5-14)	1,200.0	1,201.0	28.0	22.8	5.416	ES
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #2 (8-5-14)	11,868.1	12,088.1	388.9	232.4	2.484	SF
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #2 (8-5-14)	1,366.3	1,367.3	14.0	8.1	2.366	CC
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #2 (8-5-14)	11,868.1	11,879.1	165.2	-14.8	0.918	Level 1, ES, SF
Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8-1-14)	1,600.0	1,600.0	16.8	9.8	2.412	CC
Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8-1-14)	11,868.1	11,773.7	165.2	-14.9	0.917	Level 1, ES, SF
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14)	1,600.0	1,600.0	30.8	23.8	4.422	CC, ES
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14)	11,868.1	11,977.1	388.9	231.4	2.469	SF

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	
10,300.0	7,284.4	7,263.4	7,263.4	60.9	145.3	91.44	3,941.2	9.2	902.6	696.6	206.03	4.381	

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-30-7N
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-30-7N	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		
10,400.0	7,283.9	7,262.9	7,262.9	62.7	145.3	91.28	3,941.2	9.2	804.5	596.6	207.88	3.870		
10,500.0	7,283.4	7,262.4	7,262.4	64.6	145.2	91.12	3,941.2	9.2	707.0	497.2	209.74	3.371		
10,600.0	7,283.0	7,262.0	7,262.0	66.4	145.2	90.95	3,941.2	9.2	610.2	398.6	211.60	2.884		
10,700.0	7,282.5	7,261.5	7,261.5	68.3	145.2	90.79	3,941.2	9.2	514.7	301.3	213.46	2.411		
10,800.0	7,282.0	7,261.0	7,261.0	70.1	145.2	90.63	3,941.2	9.2	421.3	206.0	215.32	1.957		
10,900.0	7,281.6	7,260.6	7,260.6	72.0	145.2	90.47	3,941.2	9.2	331.8	114.6	217.18	1.528		
11,000.0	7,281.1	7,260.1	7,260.1	73.9	145.2	90.30	3,941.2	9.2	250.2	31.2	219.04	1.142	Level 2	
11,100.0	7,280.6	7,259.6	7,259.6	75.8	145.2	90.14	3,941.2	9.2	187.6	-33.3	220.91	0.849	Level 1	
11,187.2	7,280.2	7,259.2	7,259.2	77.4	145.2	90.00	3,941.2	9.2	166.1	-56.5	222.53	0.746	Level 1, CC, ES, SF	
11,200.0	7,280.1	7,259.1	7,259.1	77.6	145.2	89.98	3,941.2	9.2	166.6	-56.2	222.77	0.748	Level 1	
11,300.0	7,279.7	7,258.7	7,258.7	79.5	145.2	89.82	3,941.2	9.2	200.8	-23.9	224.63	0.894	Level 1	
11,400.0	7,279.2	7,258.2	7,258.2	81.4	145.2	89.65	3,941.2	9.2	269.9	43.4	226.50	1.192	Level 2	
11,500.0	7,278.7	7,257.7	7,257.7	83.3	145.2	89.49	3,941.2	9.2	354.1	125.8	228.36	1.551		
11,600.0	7,278.3	7,257.3	7,257.3	85.1	145.1	89.33	3,941.2	9.2	444.9	214.7	230.23	1.933		
11,700.0	7,277.8	7,256.8	7,256.8	87.0	145.1	89.17	3,941.2	9.2	539.0	306.9	232.09	2.322		
11,800.0	7,277.3	7,256.3	7,256.3	88.9	145.1	89.00	3,941.2	9.2	634.9	400.9	233.95	2.714		
11,868.1	7,277.0	7,256.0	7,256.0	89.9	145.1	88.89	3,941.2	9.2	700.9	465.9	234.98	2.983		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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							
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	
8,000.0	7,295.2	7,290.2	7,290.2	21.6	145.8	-90.29	1,449.5	-817.0	949.4	782.1	167.25	5.676		
8,100.0	7,294.8	7,289.8	7,289.8	22.9	145.8	-90.25	1,449.5	-817.0	879.2	710.6	168.60	5.214		
8,200.0	7,294.3	7,289.3	7,289.3	24.4	145.8	-90.20	1,449.5	-817.0	815.2	645.2	170.03	4.794		
8,300.0	7,293.8	7,288.8	7,288.8	25.8	145.8	-90.16	1,449.5	-817.0	759.0	587.5	171.52	4.425		
8,400.0	7,293.3	7,288.3	7,288.3	27.4	145.8	-90.12	1,449.5	-817.0	712.5	539.5	173.06	4.117		
8,500.0	7,292.9	7,287.9	7,287.9	29.0	145.8	-90.08	1,449.5	-817.0	677.7	503.1	174.64	3.881		
8,600.0	7,292.4	7,287.4	7,287.4	30.6	145.7	-90.04	1,449.5	-817.0	656.4	480.1	176.26	3.724		
8,692.1	7,292.0	7,287.0	7,287.0	32.1	145.7	-90.00	1,449.5	-817.0	649.9	472.1	177.78	3.656 CC		
8,700.0	7,291.9	7,286.9	7,286.9	32.3	145.7	-90.00	1,449.5	-817.0	650.0	472.0	177.92	3.653 ES, SF		
8,800.0	7,291.5	7,286.5	7,286.5	33.9	145.7	-89.96	1,449.5	-817.0	658.8	479.2	179.59	3.668		
8,900.0	7,291.0	7,286.0	7,286.0	35.7	145.7	-89.91	1,449.5	-817.0	682.4	501.1	181.30	3.764		
9,000.0	7,290.5	7,285.5	7,285.5	37.4	145.7	-89.87	1,449.5	-817.0	719.2	536.2	183.02	3.930		
9,100.0	7,290.0	7,285.0	7,285.0	39.1	145.7	-89.83	1,449.5	-817.0	767.3	582.6	184.75	4.153		
9,200.0	7,289.6	7,284.6	7,284.6	40.9	145.7	-89.79	1,449.5	-817.0	824.8	638.3	186.51	4.423		
9,300.0	7,289.1	7,284.1	7,284.1	42.7	145.7	-89.75	1,449.5	-817.0	889.9	701.6	188.27	4.727		
9,400.0	7,288.6	7,283.6	7,283.6	44.4	145.7	-89.71	1,449.5	-817.0	961.0	771.0	190.05	5.057		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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	-92.32	-92.32	-3.6	-89.6	89.7	89.7	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-92.32	-92.32	-3.6	-89.6	89.7	89.5	0.23	395.156	
166.3	166.3	167.3	167.3	0.3	0.3	-92.32	-92.32	-3.6	-89.6	89.7	89.2	0.53	170.807 CC	
200.0	200.0	200.0	200.0	0.3	0.3	-92.32	-92.32	-3.6	-89.6	89.7	89.0	0.67	133.044 ES	
300.0	300.0	297.9	297.9	0.6	0.5	-92.44	-92.44	-3.9	-91.3	91.4	90.3	1.11	82.496	
400.0	400.0	394.6	394.5	0.8	0.8	-92.74	-92.74	-4.6	-96.2	96.5	95.0	1.55	62.399	
500.0	500.0	490.9	490.4	1.0	1.0	-93.18	-93.18	-5.8	-104.2	104.9	102.9	2.00	52.437	
600.0	600.0	586.5	585.4	1.2	1.3	-93.69	-93.69	-7.4	-115.4	116.7	114.2	2.47	47.174	
700.0	700.0	681.3	679.0	1.5	1.6	-94.21	-94.21	-9.5	-129.5	131.7	128.8	2.97	44.388	
800.0	800.0	777.2	773.4	1.7	1.9	-94.70	-94.70	-12.1	-146.6	149.7	146.2	3.49	42.898	
900.0	900.0	875.5	870.0	1.9	2.3	-95.11	-95.11	-14.7	-164.6	168.1	164.1	4.03	41.764	
1,000.0	1,000.0	973.8	966.6	2.1	2.7	-95.44	-95.44	-17.4	-182.6	186.6	182.0	4.57	40.825	
1,100.0	1,100.0	1,072.0	1,063.1	2.4	3.1	-95.71	-95.71	-20.0	-200.5	205.1	199.9	5.12	40.039	
1,200.0	1,200.0	1,170.3	1,159.7	2.6	3.5	-95.93	-95.93	-22.7	-218.5	223.5	217.9	5.68	39.376	
1,300.0	1,300.0	1,268.6	1,256.3	2.8	3.9	-96.12	-96.12	-25.3	-236.5	242.0	235.8	6.24	38.812	
1,400.0	1,400.0	1,366.9	1,352.9	3.0	4.3	-96.28	-96.28	-28.0	-254.4	260.5	253.7	6.80	38.328	
1,500.0	1,500.0	1,465.2	1,449.5	3.3	4.8	-96.42	-96.42	-30.7	-272.4	278.9	271.6	7.36	37.908	
1,600.0	1,600.0	1,563.4	1,546.1	3.5	5.2	-96.55	-96.55	-33.3	-290.4	297.4	289.5	7.92	37.542	
1,700.0	1,700.0	1,661.9	1,642.8	3.7	5.6	-96.73	-96.73	-36.0	-308.4	314.8	307.3	7.56	41.630	
1,800.0	1,799.9	1,760.7	1,739.9	3.9	6.0	-96.89	-96.89	-38.7	-326.5	330.2	322.2	8.00	41.283	
1,900.0	1,899.7	1,859.8	1,837.3	4.1	6.4	-97.01	-97.01	-41.3	-344.6	343.4	335.0	8.44	40.689	
2,000.0	1,999.3	1,959.0	1,934.8	4.3	6.8	-97.15	-97.15	-44.0	-362.7	354.6	345.8	8.89	39.882	
2,100.0	2,098.6	2,058.4	2,032.5	4.5	7.3	-97.28	-97.28	-46.7	-380.9	364.0	354.6	9.36	38.901	
2,200.0	2,197.9	2,157.8	2,130.2	4.7	7.7	-97.40	-97.40	-49.4	-399.1	373.1	363.2	9.84	37.929	
2,300.0	2,297.1	2,257.2	2,227.9	4.9	8.1	-97.51	-97.51	-52.1	-417.3	382.2	371.9	10.33	37.019	
2,400.0	2,396.4	2,356.6	2,325.6	5.2	8.5	-97.61	-97.61	-54.8	-435.4	391.5	380.7	10.82	36.166	
2,500.0	2,495.7	2,456.0	2,423.3	5.5	8.9	-97.70	-97.70	-57.4	-453.6	400.8	389.5	11.33	35.366	
2,600.0	2,595.0	2,555.5	2,521.0	5.7	9.3	-97.78	-97.78	-60.1	-471.8	410.2	398.4	11.85	34.617	
2,700.0	2,694.2	2,654.9	2,618.7	6.0	9.8	-97.85	-97.85	-62.8	-490.0	419.7	407.3	12.38	33.914	
2,800.0	2,793.5	2,754.3	2,716.4	6.3	10.2	-97.91	-97.91	-65.5	-508.1	429.2	416.3	12.91	33.254	
2,900.0	2,892.8	2,853.7	2,814.1	6.5	10.6	-97.96	-97.96	-68.2	-526.3	438.9	425.4	13.45	32.635	
3,000.0	2,992.0	2,953.1	2,911.8	6.8	11.0	-98.00	-98.00	-70.9	-544.5	448.5	434.5	13.99	32.053	
3,100.0	3,091.3	3,052.5	3,009.5	7.1	11.4	-98.03	-98.03	-73.6	-562.7	458.2	443.7	14.54	31.505	
3,200.0	3,190.6	3,151.9	3,107.1	7.4	11.9	-98.05	-98.05	-76.3	-580.8	468.0	452.9	15.10	30.989	
3,300.0	3,289.9	3,251.3	3,204.8	7.7	12.3	-98.06	-98.06	-78.9	-599.0	477.8	462.2	15.66	30.503	
3,400.0	3,389.1	3,350.7	3,302.5	8.0	12.7	-98.07	-98.07	-81.6	-617.2	487.7	471.4	16.23	30.045	
3,500.0	3,488.4	3,450.1	3,400.2	8.3	13.1	-98.07	-98.07	-84.3	-635.4	497.6	480.8	16.80	29.612	
3,600.0	3,587.7	3,549.5	3,497.9	8.6	13.6	-98.06	-98.06	-87.0	-653.6	507.7	490.4	17.37	29.237	
3,700.0	3,687.3	3,648.8	3,595.5	8.8	14.0	-98.04	-98.04	-89.7	-671.7	519.4	501.5	17.88	29.055	
3,800.0	3,787.0	3,747.9	3,692.9	9.0	14.4	-98.01	-98.01	-92.4	-689.8	532.8	514.4	18.36	29.021 SF	
3,900.0	3,886.9	3,846.7	3,790.0	9.2	14.8	-97.96	-97.96	-95.0	-707.9	547.9	529.1	18.81	29.124	
4,000.0	3,986.9	3,945.3	3,886.8	9.4	15.2	-97.89	-97.89	-97.7	-725.9	564.7	545.5	19.24	29.357	
4,100.0	4,086.9	4,043.5	3,983.4	9.6	15.6	-97.80	-97.80	-100.4	-743.9	582.6	563.0	19.64	29.668	
4,200.0	4,186.9	4,141.8	4,080.0	9.8	16.1	-97.69	-97.69	-103.0	-761.9	600.5	580.5	20.07	29.930	
4,300.0	4,286.9	4,240.1	4,176.6	10.0	16.5	-97.56	-97.56	-105.7	-779.8	618.5	598.0	20.50	30.179	
4,400.0	4,386.9	4,338.4	4,273.2	10.2	16.9	-97.40	-97.40	-108.3	-797.8	636.5	615.6	20.93	30.416	
4,500.0	4,486.9	4,436.6	4,369.7	10.4	17.3	-97.21	-97.21	-111.0	-815.8	654.6	633.2	21.36	30.641	
4,600.0	4,586.9	4,534.9	4,466.3	10.6	17.7	-96.99	-96.99	-113.6	-833.7	672.6	650.8	21.80	30.855	
4,700.0	4,686.9	4,633.2	4,562.9	10.8	18.1	-96.74	-96.74	-116.3	-851.7	690.7	668.5	22.24	31.059	
4,800.0	4,786.9	4,731.5	4,659.5	11.0	18.6	-96.46	-96.46	-119.0	-869.7	708.8	686.2	22.68	31.253	
4,900.0	4,886.9	4,829.7	4,756.1	11.2	19.0	-96.15	-96.15	-121.6	-887.6	727.0	703.8	23.12	31.438	

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-30-7N
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-30-7N	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	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	4,986.9	4,928.0	4,852.7	11.4	19.4	-87.31	-124.3	-905.6	745.1	721.5	23.57	31.615		
5,100.0	5,086.9	5,026.3	4,949.2	11.6	19.8	-87.58	-126.9	-923.6	763.3	739.2	24.01	31.784		
5,200.0	5,186.9	5,124.6	5,045.8	11.8	20.2	-87.84	-129.6	-941.6	781.4	757.0	24.46	31.946		
5,300.0	5,286.9	5,222.9	5,142.4	12.0	20.6	-88.08	-132.2	-959.5	799.6	774.7	24.91	32.101		
5,400.0	5,386.9	5,321.1	5,239.0	12.2	21.1	-88.31	-134.9	-977.5	817.8	792.5	25.36	32.249		
5,500.0	5,486.9	5,419.4	5,335.6	12.4	21.5	-88.53	-137.6	-995.5	836.0	810.2	25.81	32.391		
5,600.0	5,586.9	5,517.7	5,432.2	12.6	21.9	-88.75	-140.2	-1,013.4	854.3	828.0	26.26	32.527		
5,700.0	5,686.9	5,616.0	5,528.7	12.8	22.3	-88.95	-142.9	-1,031.4	872.5	845.8	26.72	32.657		
5,800.0	5,786.9	5,714.2	5,625.3	13.0	22.7	-89.14	-145.5	-1,049.4	890.7	863.6	27.17	32.783		
5,900.0	5,886.9	5,812.5	5,721.9	13.2	23.1	-89.33	-148.2	-1,067.4	909.0	881.4	27.63	32.903		
6,000.0	5,986.9	5,910.8	5,818.5	13.4	23.6	-89.51	-150.8	-1,085.3	927.3	899.2	28.08	33.019		
6,100.0	6,086.9	6,009.1	5,915.1	13.6	24.0	-89.69	-153.5	-1,103.3	945.5	917.0	28.54	33.131		
6,200.0	6,186.9	6,128.2	6,032.3	13.8	24.4	-89.88	-156.6	-1,124.4	963.4	934.3	29.02	33.195		
6,300.0	6,286.9	6,277.2	6,179.9	14.0	24.8	-90.06	-159.6	-1,144.7	977.0	947.5	29.51	33.110		
6,400.0	6,386.9	6,428.0	6,330.0	14.2	25.1	-90.17	-161.5	-1,157.4	985.4	955.5	29.98	32.873		
6,500.0	6,486.9	6,579.6	6,481.6	14.4	25.3	-90.21	-162.2	-1,162.4	988.7	958.3	30.44	32.481		
6,600.0	6,586.9	6,685.9	6,587.9	14.6	25.4	-90.21	-162.2	-1,162.4	988.7	957.9	30.83	32.070		
6,700.0	6,686.9	6,785.9	6,687.9	14.9	25.5	-90.21	-162.2	-1,162.4	988.7	957.5	31.21	31.676		
6,762.7	6,749.6	6,848.6	6,750.6	15.0	25.6	-90.47	-162.2	-1,162.4	988.7	957.3	31.47	31.419		
6,800.0	6,786.9	6,885.9	6,787.9	15.1	25.6	-90.45	-162.2	-1,162.4	988.7	957.1	31.61	31.275		
6,900.0	6,886.1	6,985.1	6,887.1	15.2	25.8	-91.10	-162.2	-1,162.4	988.9	957.0	31.91	30.995		
7,000.0	6,981.2	7,080.8	6,982.8	15.4	25.9	-92.66	-162.2	-1,162.4	990.0	957.9	32.07	30.870		
7,100.0	7,068.8	7,187.5	7,088.6	15.5	26.0	-94.70	-150.1	-1,162.4	992.6	960.4	32.17	30.852		
7,200.0	7,145.6	7,304.7	7,199.3	15.6	26.1	-96.69	-112.4	-1,162.2	996.4	964.1	32.29	30.860		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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	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	-92.75	-92.75	-3.6	-75.6	75.7	75.7	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-92.75	-92.75	-3.6	-75.6	75.7	75.5	0.23	333.524	
200.0	200.0	201.0	201.0	0.3	0.3	-92.75	-92.75	-3.6	-75.6	75.7	75.0	0.68	111.913	
300.0	300.0	301.0	301.0	0.6	0.6	-92.75	-92.75	-3.6	-75.6	75.7	74.6	1.13	67.237	
366.3	366.3	367.3	367.3	0.7	0.7	-92.75	-92.75	-3.6	-75.6	75.7	74.3	1.42	53.161 CC	
400.0	400.0	400.0	400.0	0.8	0.8	-92.75	-92.75	-3.6	-75.6	75.7	74.1	1.57	48.127 ES	
500.0	500.0	498.4	498.4	1.0	1.0	-92.90	-92.90	-3.9	-77.3	77.4	75.4	2.01	38.608	
600.0	600.0	595.6	595.4	1.2	1.2	-93.30	-93.30	-4.7	-82.2	82.5	80.1	2.44	33.893	
700.0	700.0	692.3	691.8	1.5	1.4	-93.87	-93.87	-6.1	-90.3	91.0	88.1	2.88	31.607	
800.0	800.0	788.3	787.2	1.7	1.7	-94.50	-94.50	-8.0	-101.5	102.8	99.5	3.34	30.785	
900.0	900.0	883.5	881.3	1.9	2.0	-95.13	-95.13	-10.4	-115.8	117.9	114.1	3.82	30.865	
1,000.0	1,000.0	980.3	976.5	2.1	2.3	-95.70	-95.70	-13.3	-132.8	135.7	131.4	4.33	31.359	
1,100.0	1,100.0	1,078.7	1,073.2	2.4	2.7	-96.15	-96.15	-16.2	-150.4	153.8	148.9	4.85	31.716	
1,200.0	1,200.0	1,177.0	1,169.9	2.6	3.1	-96.51	-96.51	-19.2	-167.9	171.9	166.5	5.38	31.947	
1,300.0	1,300.0	1,275.4	1,266.6	2.8	3.4	-96.80	-96.80	-22.1	-185.5	190.0	184.0	5.92	32.097	
1,400.0	1,400.0	1,373.7	1,363.4	3.0	3.8	-97.04	-97.04	-25.1	-203.1	208.0	201.6	6.46	32.194	
1,500.0	1,500.0	1,472.1	1,460.1	3.3	4.2	-97.24	-97.24	-28.0	-220.6	226.1	219.1	7.01	32.258	
1,600.0	1,600.0	1,570.4	1,556.8	3.5	4.6	-97.41	-97.41	-31.0	-238.2	244.2	236.7	7.56	32.300	
1,700.0	1,700.0	1,668.9	1,653.7	3.7	5.0	34.86	34.86	-33.9	-255.8	261.3	253.8	7.44	35.131	
1,800.0	1,799.9	1,767.8	1,750.9	3.9	5.4	35.06	35.06	-36.9	-273.5	276.2	268.3	7.87	35.115	
1,900.0	1,899.7	1,866.9	1,848.4	4.1	5.8	35.55	35.55	-39.9	-291.2	289.0	280.7	8.30	34.814	
2,000.0	1,999.3	1,966.3	1,946.1	4.3	6.2	36.30	36.30	-42.9	-308.9	299.8	291.0	8.75	34.270	
2,100.0	2,098.6	2,065.7	2,043.9	4.5	6.6	37.31	37.31	-45.8	-326.7	308.7	299.5	9.21	33.524	
2,200.0	2,197.9	2,165.2	2,141.7	4.7	7.1	38.36	38.36	-48.8	-344.4	317.3	307.6	9.68	32.767	
2,300.0	2,297.1	2,264.6	2,239.5	4.9	7.5	39.36	39.36	-51.8	-362.2	326.0	315.8	10.17	32.056	
2,400.0	2,396.4	2,364.1	2,337.4	5.2	7.9	40.30	40.30	-54.8	-380.0	334.8	324.2	10.67	31.387	
2,500.0	2,495.7	2,463.5	2,435.2	5.5	8.3	41.20	41.20	-57.8	-397.7	343.7	332.5	11.17	30.760	
2,600.0	2,595.0	2,563.0	2,533.0	5.7	8.7	42.05	42.05	-60.8	-415.5	352.7	341.0	11.69	30.170	
2,700.0	2,694.2	2,662.5	2,630.8	6.0	9.1	42.86	42.86	-63.8	-433.3	361.7	349.5	12.21	29.616	
2,800.0	2,793.5	2,761.9	2,728.6	6.3	9.5	43.63	43.63	-66.7	-451.0	370.8	358.1	12.75	29.095	
2,900.0	2,892.8	2,861.4	2,826.4	6.5	9.9	44.36	44.36	-69.7	-468.8	380.0	366.7	13.29	28.605	
3,000.0	2,992.0	2,960.9	2,924.3	6.8	10.3	45.06	45.06	-72.7	-486.5	389.3	375.4	13.83	28.144	
3,100.0	3,091.3	3,060.3	3,022.1	7.1	10.8	45.73	45.73	-75.7	-504.3	398.6	384.2	14.38	27.709	
3,200.0	3,190.6	3,159.8	3,119.9	7.4	11.2	46.36	46.36	-78.7	-522.1	407.9	393.0	14.94	27.300	
3,300.0	3,289.9	3,259.2	3,217.7	7.7	11.6	46.97	46.97	-81.7	-539.8	417.3	401.8	15.50	26.914	
3,400.0	3,389.1	3,358.7	3,315.5	8.0	12.0	47.55	47.55	-84.7	-557.6	426.7	410.6	16.07	26.549	
3,500.0	3,488.4	3,458.2	3,413.3	8.3	12.4	48.11	48.11	-87.7	-575.4	436.2	419.6	16.65	26.205	
3,600.0	3,587.7	3,557.6	3,511.2	8.6	12.8	48.66	48.66	-90.6	-593.1	445.9	428.7	17.21	25.911	
3,700.0	3,687.3	3,657.0	3,608.9	8.8	13.2	49.06	49.06	-93.6	-610.9	457.1	439.4	17.72	25.796	
3,800.0	3,787.0	3,756.1	3,706.4	9.0	13.6	49.21	49.21	-96.6	-628.6	470.1	451.9	18.20	25.824	
3,900.0	3,886.9	3,855.0	3,803.6	9.2	14.1	49.15	49.15	-99.6	-646.3	484.7	466.0	18.65	25.983	
4,000.0	3,986.9	3,953.6	3,900.6	9.4	14.5	48.90	48.90	-102.5	-663.9	501.0	482.0	19.07	26.267	
4,100.0	4,086.9	4,052.0	3,997.3	9.6	14.9	-84.03	-84.03	-105.5	-681.4	518.5	499.0	19.47	26.626	
4,200.0	4,186.9	4,150.3	4,094.0	9.8	15.3	-84.54	-84.54	-108.4	-699.0	536.0	516.1	19.90	26.939	
4,300.0	4,286.9	4,248.7	4,190.8	10.0	15.7	-85.03	-85.03	-111.4	-716.6	553.5	533.2	20.32	27.237	
4,400.0	4,386.9	4,347.0	4,287.5	10.2	16.1	-85.48	-85.48	-114.3	-734.1	571.1	550.3	20.75	27.520	
4,500.0	4,486.9	4,445.3	4,384.2	10.4	16.5	-85.91	-85.91	-117.3	-751.7	588.7	567.5	21.18	27.791	
4,600.0	4,586.9	4,543.7	4,480.9	10.6	16.9	-86.32	-86.32	-120.2	-769.3	606.3	584.7	21.62	28.049	
4,700.0	4,686.9	4,642.0	4,577.6	10.8	17.3	-86.70	-86.70	-123.2	-786.8	624.0	601.9	22.05	28.295	
4,800.0	4,786.9	4,740.4	4,674.4	11.0	17.7	-87.05	-87.05	-126.2	-804.4	641.6	619.2	22.49	28.530	
4,900.0	4,886.9	4,838.7	4,771.1	11.2	18.2	-87.39	-87.39	-129.1	-821.9	659.4	636.4	22.93	28.755	

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-30-7N
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-30-7N	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	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	4,986.9	4,937.1	4,867.8	11.4	18.6	-87.72	-132.1	-839.5	677.1	653.7	23.37	28.970	
5,100.0	5,086.9	5,035.4	4,964.5	11.6	19.0	-88.02	-135.0	-857.1	694.8	671.0	23.82	29.175	
5,200.0	5,186.9	5,133.8	5,061.2	11.8	19.4	-88.31	-138.0	-874.6	712.6	688.3	24.26	29.372	
5,300.0	5,286.9	5,232.1	5,158.0	12.0	19.8	-88.59	-140.9	-892.2	730.4	705.7	24.71	29.561	
5,400.0	5,386.9	5,330.5	5,254.7	12.2	20.2	-88.85	-143.9	-909.8	748.2	723.0	25.16	29.743	
5,500.0	5,486.9	5,428.8	5,351.4	12.4	20.6	-89.10	-146.8	-927.3	766.0	740.4	25.60	29.917	
5,600.0	5,586.9	5,527.2	5,448.1	12.6	21.0	-89.34	-149.8	-944.9	783.8	757.8	26.05	30.084	
5,700.0	5,686.9	5,650.1	5,569.3	12.8	21.4	-89.61	-153.2	-965.5	800.7	774.1	26.52	30.187	
5,800.0	5,786.9	5,787.5	5,705.5	13.0	21.8	-89.82	-156.1	-982.7	813.1	786.2	26.98	30.137	
5,900.0	5,886.9	5,926.2	5,843.8	13.2	22.0	-89.95	-157.9	-993.4	820.9	793.5	27.43	29.930	
6,000.0	5,986.9	6,065.6	5,983.1	13.4	22.2	-90.00	-158.6	-997.6	823.9	796.0	27.87	29.564	
6,100.0	6,086.9	6,170.4	6,087.9	13.6	22.4	-90.00	-158.6	-997.6	823.9	795.7	28.26	29.156	
6,200.0	6,186.9	6,270.4	6,187.9	13.8	22.5	-90.00	-158.6	-997.6	823.9	795.3	28.64	28.764	
6,300.0	6,286.9	6,370.4	6,287.9	14.0	22.6	-90.00	-158.6	-997.6	823.9	794.9	29.03	28.381	
6,400.0	6,386.9	6,470.4	6,387.9	14.2	22.7	-90.00	-158.6	-997.6	823.9	794.5	29.42	28.006	
6,500.0	6,486.9	6,570.4	6,487.9	14.4	22.9	-90.00	-158.6	-997.6	823.9	794.1	29.81	27.640	
6,600.0	6,586.9	6,670.5	6,588.0	14.6	23.0	-89.99	-158.5	-997.6	823.9	793.7	30.20	27.282	
6,649.8	6,636.7	6,720.3	6,637.7	14.7	23.0	-89.76	-155.1	-997.6	823.9	793.5	30.40	27.103	
6,700.0	6,686.9	6,769.5	6,686.2	14.9	23.1	-89.20	-147.1	-997.6	824.0	793.4	30.61	26.920	
6,800.0	6,786.9	6,861.2	6,773.7	15.1	23.2	-87.55	-120.1	-997.5	824.8	793.7	31.05	26.564	
6,900.0	6,886.1	6,946.1	6,849.4	15.2	23.2	-85.27	-81.9	-997.3	827.1	795.6	31.44	26.305	
7,000.0	6,981.2	7,027.2	6,915.0	15.4	23.2	-83.15	-34.2	-997.1	830.4	798.7	31.73	26.171	
7,100.0	7,068.8	7,105.6	6,970.6	15.5	23.3	-81.24	20.9	-996.9	834.3	802.4	31.93	26.128	
7,200.0	7,145.6	7,181.8	7,016.2	15.6	23.3	-79.59	81.9	-996.6	838.3	806.2	32.15	26.071	
7,300.0	7,208.9	7,256.4	7,051.7	15.7	23.4	-78.25	147.4	-996.3	842.0	809.6	32.44	25.958	
7,400.0	7,256.3	7,329.9	7,077.2	16.0	23.5	-77.25	216.3	-996.0	845.0	812.0	33.00	25.606	
7,500.0	7,286.0	7,400.0	7,092.2	16.5	23.7	-76.62	284.7	-995.7	847.0	813.1	33.91	24.976	
7,600.0	7,297.0	7,475.0	7,098.0	17.2	23.9	-76.36	359.4	-995.4	847.8	812.5	35.28	24.031	
7,700.0	7,296.6	7,572.9	7,097.6	18.1	24.4	-76.35	457.3	-995.0	847.8	810.8	37.01	22.904	
7,800.0	7,296.2	7,672.9	7,097.1	19.1	25.0	-76.35	557.3	-994.6	847.8	808.8	39.01	21.730	
7,900.0	7,295.7	7,772.9	7,096.7	20.3	25.8	-76.35	657.3	-994.2	847.8	806.5	41.25	20.549	
8,000.0	7,295.2	7,872.9	7,096.2	21.6	26.7	-76.35	757.3	-993.7	847.7	804.0	43.70	19.399	
8,100.0	7,294.8	7,972.9	7,095.7	22.9	27.7	-76.35	857.3	-993.3	847.7	801.4	46.32	18.302	
8,200.0	7,294.3	8,072.9	7,095.2	24.4	28.9	-76.35	957.3	-992.9	847.7	798.6	49.08	17.271	
8,300.0	7,293.8	8,172.9	7,094.8	25.8	30.1	-76.35	1,057.3	-992.5	847.7	795.7	51.97	16.312	
8,400.0	7,293.3	8,272.9	7,094.3	27.4	31.4	-76.35	1,157.3	-992.0	847.7	792.7	54.96	15.425	
8,500.0	7,292.9	8,372.9	7,093.8	29.0	32.8	-76.35	1,257.3	-991.6	847.7	789.7	58.03	14.607	
8,600.0	7,292.4	8,472.9	7,093.4	30.6	34.2	-76.35	1,357.3	-991.2	847.7	786.5	61.18	13.856	
8,700.0	7,291.9	8,572.9	7,092.9	32.3	35.7	-76.35	1,457.3	-990.8	847.7	783.3	64.39	13.165	
8,800.0	7,291.5	8,672.9	7,092.4	33.9	37.2	-76.35	1,557.3	-990.3	847.6	780.0	67.65	12.529	
8,900.0	7,291.0	8,772.9	7,091.9	35.7	38.8	-76.35	1,657.3	-989.9	847.6	776.7	70.97	11.944	
9,000.0	7,290.5	8,872.9	7,091.5	37.4	40.4	-76.35	1,757.3	-989.5	847.6	773.3	74.32	11.406	
9,100.0	7,290.0	8,972.9	7,091.0	39.1	42.0	-76.35	1,857.3	-989.1	847.6	769.9	77.70	10.908	
9,200.0	7,289.6	9,072.9	7,090.5	40.9	43.7	-76.35	1,957.3	-988.7	847.6	766.5	81.12	10.449	
9,300.0	7,289.1	9,172.9	7,090.1	42.7	45.3	-76.35	2,057.3	-988.2	847.6	763.0	84.56	10.023	
9,400.0	7,288.6	9,272.9	7,089.6	44.4	47.0	-76.35	2,157.3	-987.8	847.6	759.5	88.03	9.628	
9,500.0	7,288.2	9,372.9	7,089.1	46.2	48.7	-76.35	2,257.3	-987.4	847.6	756.0	91.52	9.261	
9,600.0	7,287.7	9,472.9	7,088.6	48.0	50.4	-76.35	2,357.3	-987.0	847.5	752.5	95.03	8.919	
9,700.0	7,287.2	9,572.9	7,088.2	49.9	52.2	-76.35	2,457.3	-986.5	847.5	749.0	98.55	8.600	
9,800.0	7,286.7	9,672.9	7,087.7	51.7	53.9	-76.35	2,557.3	-986.1	847.5	745.4	102.09	8.302	
9,900.0	7,286.3	9,772.9	7,087.2	53.5	55.7	-76.35	2,657.3	-985.7	847.5	741.9	105.64	8.022	

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-30-7N
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-30-7N	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 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	9,872.9	7,086.8	55.3	57.4	-76.35	2,757.3	-985.3	847.5	738.3	109.21	7.760	
10,100.0	7,285.3	9,972.9	7,086.3	57.2	59.2	-76.35	2,857.3	-984.8	847.5	734.7	112.78	7.514	
10,200.0	7,284.9	10,072.9	7,085.8	59.0	61.0	-76.35	2,957.3	-984.4	847.5	731.1	116.37	7.283	
10,300.0	7,284.4	10,172.9	7,085.3	60.9	62.8	-76.35	3,057.3	-984.0	847.5	727.5	119.96	7.064	
10,400.0	7,283.9	10,272.9	7,084.9	62.7	64.6	-76.35	3,157.3	-983.6	847.5	723.9	123.57	6.858	
10,500.0	7,283.4	10,372.9	7,084.4	64.6	66.4	-76.35	3,257.3	-983.1	847.4	720.3	127.18	6.663	
10,600.0	7,283.0	10,472.9	7,083.9	66.4	68.2	-76.35	3,357.3	-982.7	847.4	716.6	130.80	6.479	
10,700.0	7,282.5	10,572.9	7,083.5	68.3	70.0	-76.35	3,457.3	-982.3	847.4	713.0	134.42	6.304	
10,800.0	7,282.0	10,672.9	7,083.0	70.1	71.8	-76.35	3,557.3	-981.9	847.4	709.4	138.05	6.138	
10,900.0	7,281.6	10,772.9	7,082.5	72.0	73.7	-76.34	3,657.3	-981.4	847.4	705.7	141.69	5.981	
11,000.0	7,281.1	10,872.9	7,082.0	73.9	75.5	-76.34	3,757.3	-981.0	847.4	702.1	145.33	5.831	
11,100.0	7,280.6	10,972.9	7,081.6	75.8	77.3	-76.34	3,857.3	-980.6	847.4	698.4	148.97	5.688	
11,200.0	7,280.1	11,072.9	7,081.1	77.6	79.2	-76.34	3,957.3	-980.2	847.4	694.7	152.62	5.552	
11,300.0	7,279.7	11,172.9	7,080.6	79.5	81.0	-76.34	4,057.3	-979.7	847.3	691.1	156.27	5.422	
11,400.0	7,279.2	11,272.9	7,080.2	81.4	82.9	-76.34	4,157.3	-979.3	847.3	687.4	159.93	5.298	
11,500.0	7,278.7	11,372.9	7,079.7	83.3	84.7	-76.34	4,257.3	-978.9	847.3	683.7	163.59	5.179	
11,600.0	7,278.3	11,472.9	7,079.2	85.1	86.6	-76.34	4,357.3	-978.5	847.3	680.0	167.26	5.066	
11,700.0	7,277.8	11,572.9	7,078.7	87.0	88.4	-76.34	4,457.3	-978.1	847.3	676.4	170.92	4.957	
11,800.0	7,277.3	11,672.9	7,078.3	88.9	90.3	-76.34	4,557.3	-977.6	847.3	672.7	174.59	4.853	
11,847.4	7,277.1	11,720.3	7,078.1	89.6	91.2	-76.34	4,604.7	-977.4	847.3	671.1	176.17	4.809	
11,868.1	7,277.0	11,732.0	7,078.0	89.9	91.4	-76.34	4,616.3	-977.4	847.3	670.6	176.69	4.796 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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 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	-93.54	-93.54	-3.6	-58.8	58.9	58.9	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-93.54	-93.54	-3.6	-58.8	58.9	58.7	0.23	259.603	
200.0	200.0	201.0	201.0	0.3	0.3	-93.54	-93.54	-3.6	-58.8	58.9	58.3	0.68	87.109	
300.0	300.0	301.0	301.0	0.6	0.6	-93.54	-93.54	-3.6	-58.8	58.9	57.8	1.13	52.335	
400.0	400.0	401.0	401.0	0.8	0.8	-93.54	-93.54	-3.6	-58.8	58.9	57.4	1.58	37.404	
500.0	500.0	501.0	501.0	1.0	1.0	-93.54	-93.54	-3.6	-58.8	58.9	56.9	2.03	29.101	
566.3	566.3	567.3	567.3	1.2	1.2	-93.54	-93.54	-3.6	-58.8	58.9	56.6	2.32	25.366 CC	
600.0	600.0	600.0	600.0	1.2	1.2	-93.54	-93.54	-3.6	-58.8	58.9	56.5	2.47	23.840 ES	
700.0	700.0	698.9	698.9	1.5	1.4	-93.78	-93.78	-4.0	-60.5	60.7	57.8	2.90	20.884	
800.0	800.0	796.7	796.5	1.7	1.6	-94.42	-94.42	-5.1	-65.4	65.8	62.4	3.33	19.754	
900.0	900.0	894.0	893.4	1.9	1.9	-95.28	-95.28	-6.8	-73.6	74.3	70.5	3.77	19.714	
1,000.0	1,000.0	990.6	989.4	2.1	2.1	-96.20	-96.20	-9.2	-84.8	86.1	81.9	4.22	20.411	
1,100.0	1,100.0	1,088.5	1,086.3	2.4	2.4	-97.04	-97.04	-12.2	-98.7	100.6	95.9	4.69	21.438	
1,200.0	1,200.0	1,187.4	1,184.1	2.6	2.7	-97.68	-97.68	-15.2	-112.9	115.2	110.0	5.17	22.271	
1,300.0	1,300.0	1,286.4	1,282.0	2.8	3.0	-98.18	-98.18	-18.3	-127.2	129.9	124.2	5.66	22.927	
1,400.0	1,400.0	1,385.3	1,379.8	3.0	3.3	-98.58	-98.58	-21.3	-141.4	144.5	138.4	6.16	23.451	
1,500.0	1,500.0	1,484.2	1,477.6	3.3	3.7	-98.91	-98.91	-24.4	-155.6	159.2	152.5	6.67	23.877	
1,600.0	1,600.0	1,583.1	1,575.5	3.5	4.0	-99.18	-99.18	-27.4	-169.8	173.9	166.7	7.18	24.230	
1,700.0	1,700.0	1,682.2	1,673.5	3.7	4.3	-33.10	-33.10	-30.5	-184.0	187.5	180.2	7.33	25.591	
1,800.0	1,799.9	1,781.5	1,771.7	3.9	4.7	-33.42	-33.42	-33.5	-198.3	198.9	191.2	7.74	25.695	
1,900.0	1,899.7	1,881.0	1,870.2	4.1	5.0	-34.10	-34.10	-36.6	-212.6	208.2	200.0	8.16	25.503	
2,000.0	1,999.3	1,980.7	1,968.7	4.3	5.4	-35.14	-35.14	-39.7	-226.9	215.3	206.8	8.59	25.058	
2,100.0	2,098.6	2,080.4	2,067.4	4.5	5.7	-36.51	-36.51	-42.7	-241.3	220.6	211.6	9.04	24.407	
2,200.0	2,197.9	2,180.1	2,166.0	4.7	6.1	-37.92	-37.92	-45.8	-255.6	225.7	216.2	9.50	23.744	
2,300.0	2,297.1	2,279.8	2,264.7	4.9	6.4	-39.27	-39.27	-48.9	-269.9	230.8	220.9	9.98	23.129	
2,400.0	2,396.4	2,379.6	2,363.3	5.2	6.8	-40.55	-40.55	-52.0	-284.3	236.1	225.7	10.47	22.556	
2,500.0	2,495.7	2,479.3	2,461.9	5.5	7.1	-41.78	-41.78	-55.0	-298.6	241.5	230.6	10.97	22.023	
2,600.0	2,595.0	2,579.0	2,560.6	5.7	7.5	-42.96	-42.96	-58.1	-312.9	247.0	235.6	11.48	21.526	
2,700.0	2,694.2	2,678.7	2,659.2	6.0	7.8	-44.08	-44.08	-61.2	-327.3	252.7	240.7	12.00	21.062	
2,800.0	2,793.5	2,778.5	2,757.9	6.3	8.2	-45.16	-45.16	-64.3	-341.6	258.4	245.8	12.52	20.630	
2,900.0	2,892.8	2,878.2	2,856.5	6.5	8.6	-46.19	-46.19	-67.3	-355.9	264.1	251.1	13.06	20.225	
3,000.0	2,992.0	2,977.9	2,955.1	6.8	8.9	-47.17	-47.17	-70.4	-370.3	270.0	256.4	13.60	19.848	
3,100.0	3,091.3	3,077.6	3,053.8	7.1	9.3	-48.11	-48.11	-73.5	-384.6	276.0	261.8	14.16	19.494	
3,200.0	3,190.6	3,177.3	3,152.4	7.4	9.6	-49.01	-49.01	-76.5	-398.9	282.0	267.3	14.71	19.162	
3,300.0	3,289.9	3,277.1	3,251.0	7.7	10.0	-49.88	-49.88	-79.6	-413.3	288.1	272.8	15.28	18.852	
3,400.0	3,389.1	3,376.8	3,349.7	8.0	10.3	-50.71	-50.71	-82.7	-427.6	294.2	278.4	15.85	18.560	
3,500.0	3,488.4	3,476.5	3,448.3	8.3	10.7	-51.50	-51.50	-85.8	-441.9	300.4	284.0	16.43	18.286	
3,600.0	3,587.7	3,576.2	3,547.0	8.6	11.1	-52.26	-52.26	-88.8	-456.3	306.9	289.9	17.00	18.054	
3,700.0	3,687.3	3,675.9	3,645.5	8.8	11.4	-52.71	-52.71	-91.9	-470.6	314.7	297.2	17.51	17.976	
3,800.0	3,787.0	3,775.4	3,744.0	9.0	11.8	-52.79	-52.79	-95.0	-484.9	324.2	306.2	17.98	18.024	
3,900.0	3,886.9	3,874.8	3,842.3	9.2	12.1	-52.54	-52.54	-98.0	-499.2	335.2	316.8	18.43	18.191	
4,000.0	3,986.9	3,973.9	3,940.3	9.4	12.5	-51.98	-51.98	-101.1	-513.4	347.8	329.0	18.83	18.470	
4,100.0	4,086.9	4,072.8	4,038.2	9.6	12.8	-81.25	-81.25	-104.1	-527.6	361.5	342.3	19.21	18.816	
4,200.0	4,186.9	4,171.7	4,136.0	9.8	13.2	-82.05	-82.05	-107.2	-541.8	375.3	355.7	19.62	19.130	
4,300.0	4,286.9	4,270.7	4,233.9	10.0	13.6	-82.79	-82.79	-110.2	-556.1	389.2	369.2	20.03	19.431	
4,400.0	4,386.9	4,369.6	4,331.7	10.2	13.9	-83.48	-83.48	-113.3	-570.3	403.1	382.7	20.44	19.720	
4,500.0	4,486.9	4,468.5	4,429.5	10.4	14.3	-84.12	-84.12	-116.3	-584.5	417.1	396.2	20.86	19.997	
4,600.0	4,586.9	4,567.4	4,527.4	10.6	14.6	-84.73	-84.73	-119.4	-598.7	431.1	409.8	21.28	20.262	
4,700.0	4,686.9	4,666.3	4,625.2	10.8	15.0	-85.29	-85.29	-122.4	-612.9	445.1	423.5	21.70	20.516	
4,800.0	4,786.9	4,765.2	4,723.0	11.0	15.3	-85.82	-85.82	-125.5	-627.1	459.3	437.1	22.12	20.760	
4,900.0	4,886.9	4,864.1	4,820.9	11.2	15.7	-86.32	-86.32	-128.5	-641.4	473.4	450.8	22.55	20.994	

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-30-7N
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-30-7N	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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.0	4,986.9	4,963.1	4,918.7	11.4	16.1	-86.79	-131.6	-655.6	487.6	464.6	22.98	21.219		
5,100.0	5,086.9	5,062.0	5,016.6	11.6	16.4	-87.23	-134.6	-669.8	501.8	478.4	23.41	21.435		
5,200.0	5,186.9	5,160.9	5,114.4	11.8	16.8	-87.65	-137.6	-684.0	516.0	492.2	23.84	21.643		
5,300.0	5,286.9	5,259.8	5,212.2	12.0	17.1	-88.05	-140.7	-698.2	530.2	506.0	24.28	21.843		
5,400.0	5,386.9	5,358.7	5,310.1	12.2	17.5	-88.42	-143.7	-712.4	544.5	519.8	24.71	22.035		
5,500.0	5,486.9	5,457.6	5,407.9	12.4	17.8	-88.78	-146.8	-726.7	558.8	533.7	25.15	22.220		
5,600.0	5,586.9	5,556.5	5,505.8	12.6	18.2	-89.11	-149.8	-740.9	573.2	547.6	25.59	22.398		
5,700.0	5,686.9	5,661.7	5,609.8	12.8	18.6	-89.45	-153.0	-755.8	587.4	561.3	26.03	22.561		
5,800.0	5,786.9	5,766.2	5,733.5	13.0	18.9	-89.75	-156.0	-769.8	598.6	572.1	26.47	22.611		
5,900.0	5,886.9	5,911.8	5,858.7	13.2	19.1	-89.93	-157.9	-778.5	605.5	578.6	26.89	22.515		
6,000.0	5,986.9	6,037.8	5,984.7	13.4	19.3	-90.00	-158.6	-781.9	608.2	580.9	27.31	22.266		
6,100.0	6,086.9	6,141.0	6,087.9	13.6	19.4	-90.00	-158.6	-781.9	608.2	580.5	27.71	21.948		
6,200.0	6,186.9	6,241.0	6,187.9	13.8	19.6	-90.00	-158.6	-781.9	608.2	580.1	28.10	21.642		
6,300.0	6,286.9	6,341.0	6,287.9	14.0	19.7	-90.00	-158.6	-781.9	608.2	579.7	28.50	21.343		
6,400.0	6,386.9	6,441.0	6,387.9	14.2	19.9	-90.00	-158.6	-781.9	608.2	579.3	28.89	21.051		
6,500.0	6,486.9	6,541.0	6,487.9	14.4	20.0	-90.00	-158.6	-781.9	608.2	578.9	29.29	20.766		
6,600.0	6,586.9	6,641.0	6,587.9	14.6	20.1	-90.00	-158.6	-781.9	608.2	578.5	29.69	20.488		
6,700.0	6,686.9	6,741.0	6,687.9	14.9	20.3	-90.00	-158.6	-781.9	608.2	578.1	30.09	20.216		
6,762.7	6,749.6	6,803.7	6,750.6	15.0	20.4	-90.28	-158.6	-781.9	608.2	577.9	30.35	20.042		
6,800.0	6,786.9	6,841.1	6,787.9	15.1	20.4	-90.24	-158.5	-781.9	608.2	577.7	30.50	19.942		
6,900.0	6,886.1	6,941.5	6,887.5	15.2	20.6	-90.23	-146.8	-781.9	608.2	577.4	30.83	19.732		
7,000.0	6,981.2	7,041.9	6,983.0	15.4	20.7	-90.22	-116.3	-781.8	608.2	577.2	31.05	19.587		
7,100.0	7,068.8	7,142.3	7,070.8	15.5	20.7	-90.20	-68.0	-781.6	608.3	577.0	31.25	19.465		
7,200.0	7,145.6	7,242.6	7,147.7	15.6	20.8	-90.17	-3.8	-781.4	608.3	576.8	31.51	19.304		
7,300.0	7,208.9	7,342.8	7,210.9	15.7	20.8	-90.13	73.8	-781.1	608.3	576.4	31.96	19.036		
7,400.0	7,256.3	7,443.0	7,258.1	16.0	20.9	-90.09	162.1	-780.8	608.4	575.7	32.68	18.614		
7,500.0	7,286.0	7,543.2	7,287.4	16.5	21.2	-90.05	257.6	-780.4	608.4	574.7	33.75	18.026		
7,600.0	7,297.0	7,643.2	7,298.0	17.2	21.5	-90.00	357.0	-780.1	608.5	573.3	35.17	17.304		
7,700.0	7,296.6	7,743.2	7,297.6	18.1	22.1	-90.00	456.9	-779.7	608.6	571.6	36.91	16.487		
7,800.0	7,296.2	7,843.2	7,297.1	19.1	22.8	-90.00	556.9	-779.4	608.6	569.7	38.94	15.630		
7,900.0	7,295.7	7,943.2	7,296.7	20.3	23.7	-90.00	656.9	-779.0	608.7	567.4	41.22	14.765		
8,000.0	7,295.2	8,043.2	7,296.2	21.6	24.8	-90.00	756.9	-778.7	608.7	565.0	43.72	13.922		
8,100.0	7,294.8	8,143.2	7,295.7	22.9	25.9	-90.00	856.9	-778.3	608.8	562.4	46.41	13.119		
8,200.0	7,294.3	8,243.2	7,295.3	24.4	27.2	-90.00	956.9	-778.0	608.8	559.6	49.24	12.365		
8,300.0	7,293.8	8,343.2	7,294.8	25.8	28.5	-90.00	1,056.9	-777.6	608.9	556.7	52.20	11.665		
8,400.0	7,293.3	8,443.2	7,294.3	27.4	29.9	-90.00	1,156.9	-777.2	608.9	553.7	55.27	11.018		
8,500.0	7,292.9	8,543.2	7,293.8	29.0	31.4	-90.00	1,256.9	-776.9	609.0	550.6	58.43	10.424		
8,600.0	7,292.4	8,643.2	7,293.4	30.6	32.9	-90.00	1,356.9	-776.5	609.1	547.4	61.66	9.878		
8,700.0	7,291.9	8,743.2	7,292.9	32.3	34.5	-90.00	1,456.9	-776.2	609.1	544.2	64.96	9.377		
8,800.0	7,291.5	8,843.2	7,292.4	33.9	36.1	-90.00	1,556.9	-775.8	609.2	540.9	68.31	8.918		
8,900.0	7,291.0	8,943.2	7,292.0	35.7	37.7	-90.00	1,656.9	-775.5	609.2	537.5	71.71	8.495		
9,000.0	7,290.5	9,043.2	7,291.5	37.4	39.3	-90.00	1,756.9	-775.1	609.3	534.1	75.15	8.107		
9,100.0	7,290.0	9,143.2	7,291.0	39.1	41.0	-90.00	1,856.9	-774.7	609.3	530.7	78.63	7.749		
9,200.0	7,289.6	9,243.2	7,290.5	40.9	42.7	-90.00	1,956.9	-774.4	609.4	527.3	82.14	7.419		
9,300.0	7,289.1	9,343.2	7,290.1	42.7	44.4	-90.00	2,056.9	-774.0	609.4	523.8	85.68	7.113		
9,400.0	7,288.6	9,443.2	7,289.6	44.4	46.1	-90.00	2,156.9	-773.7	609.5	520.3	89.24	6.830		
9,500.0	7,288.2	9,543.2	7,289.1	46.2	47.9	-90.00	2,256.9	-773.3	609.6	516.7	92.82	6.567		
9,600.0	7,287.7	9,643.2	7,288.7	48.0	49.6	-90.00	2,356.9	-773.0	609.6	513.2	96.42	6.322		
9,700.0	7,287.2	9,743.2	7,288.2	49.9	51.4	-90.00	2,456.9	-772.6	609.7	509.6	100.04	6.094		
9,800.0	7,286.7	9,843.2	7,287.7	51.7	53.1	-90.00	2,556.9	-772.3	609.7	506.1	103.67	5.881		
9,900.0	7,286.3	9,943.2	7,287.2	53.5	54.9	-90.00	2,656.9	-771.9	609.8	502.5	107.32	5.682		

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-30-7N
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-30-7N	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
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	
10,000.0	7,285.8	10,043.2	7,286.8	55.3	56.7	-90.00	2,756.9	-771.5	609.8	498.9	110.98	5.495		
10,100.0	7,285.3	10,143.2	7,286.3	57.2	58.5	-90.00	2,856.9	-771.2	609.9	495.2	114.64	5.320		
10,200.0	7,284.9	10,243.2	7,285.8	59.0	60.3	-90.00	2,956.9	-770.8	609.9	491.6	118.32	5.155		
10,300.0	7,284.4	10,343.2	7,285.4	60.9	62.1	-90.00	3,056.9	-770.5	610.0	488.0	122.01	4.999		
10,400.0	7,283.9	10,443.2	7,284.9	62.7	64.0	-90.00	3,156.9	-770.1	610.1	484.4	125.71	4.853		
10,500.0	7,283.4	10,543.2	7,284.4	64.6	65.8	-90.00	3,256.9	-769.8	610.1	480.7	129.42	4.714		
10,600.0	7,283.0	10,643.2	7,283.9	66.4	67.6	-90.00	3,356.9	-769.4	610.2	477.0	133.13	4.583		
10,700.0	7,282.5	10,743.2	7,283.5	68.3	69.5	-90.00	3,456.9	-769.1	610.2	473.4	136.84	4.459		
10,800.0	7,282.0	10,843.2	7,283.0	70.1	71.3	-90.00	3,556.9	-768.7	610.3	469.7	140.57	4.342		
10,900.0	7,281.6	10,943.2	7,282.5	72.0	73.1	-90.00	3,656.9	-768.3	610.3	466.0	144.30	4.230		
11,000.0	7,281.1	11,043.2	7,282.1	73.9	75.0	-90.00	3,756.9	-768.0	610.4	462.4	148.03	4.123		
11,100.0	7,280.6	11,143.2	7,281.6	75.8	76.8	-90.00	3,856.9	-767.6	610.5	458.7	151.77	4.022		
11,200.0	7,280.1	11,243.2	7,281.1	77.6	78.7	-90.00	3,956.9	-767.3	610.5	455.0	155.52	3.926		
11,300.0	7,279.7	11,343.2	7,280.6	79.5	80.5	-90.00	4,056.9	-766.9	610.6	451.3	159.26	3.834		
11,400.0	7,279.2	11,443.2	7,280.2	81.4	82.4	-90.00	4,156.9	-766.6	610.6	447.6	163.01	3.746		
11,500.0	7,278.7	11,543.2	7,279.7	83.3	84.3	-90.00	4,256.9	-766.2	610.7	443.9	166.77	3.662		
11,600.0	7,278.3	11,643.2	7,279.2	85.1	86.1	-90.00	4,356.9	-765.9	610.7	440.2	170.53	3.581		
11,700.0	7,277.8	11,743.2	7,278.8	87.0	88.0	-90.00	4,456.9	-765.5	610.8	436.5	174.29	3.504		
11,800.0	7,277.3	11,843.2	7,278.3	88.9	89.8	-90.00	4,556.9	-765.1	610.8	432.8	178.05	3.431		
11,835.3	7,277.2	11,878.5	7,278.1	89.4	90.5	-90.00	4,592.2	-765.0	610.9	431.6	179.26	3.408		
11,868.1	7,277.0	11,905.5	7,278.0	89.9	91.0	-90.00	4,619.2	-764.9	610.9	430.6	180.27	3.389 SF		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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 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	-89.99	-89.99	0.0	-44.8	44.8	44.8	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-89.99	-89.99	0.0	-44.8	44.8	44.6	0.23	197.415	
200.0	200.0	201.0	201.0	0.3	0.3	-89.99	-89.99	0.0	-44.8	44.8	44.1	0.68	66.242	
300.0	300.0	301.0	301.0	0.6	0.6	-89.99	-89.99	0.0	-44.8	44.8	43.7	1.13	39.798	
400.0	400.0	401.0	401.0	0.8	0.8	-89.99	-89.99	0.0	-44.8	44.8	43.2	1.58	28.444	
500.0	500.0	501.0	501.0	1.0	1.0	-89.99	-89.99	0.0	-44.8	44.8	42.8	2.03	22.130	
600.0	600.0	601.0	601.0	1.2	1.2	-89.99	-89.99	0.0	-44.8	44.8	42.3	2.47	18.110	
700.0	700.0	701.0	701.0	1.5	1.5	-89.99	-89.99	0.0	-44.8	44.8	41.9	2.92	15.326	
766.3	766.3	767.3	767.3	1.6	1.6	-89.99	-89.99	0.0	-44.8	44.8	41.6	3.22	13.908 CC	
800.0	800.0	801.0	801.0	1.7	1.7	-89.99	-89.99	0.0	-44.8	44.8	41.4	3.37	13.285 ES	
900.0	900.0	900.0	900.0	1.9	1.9	-90.53	-90.53	-0.4	-46.5	46.5	42.7	3.80	12.227	
1,000.0	1,000.0	997.7	997.5	2.1	2.1	-91.87	-91.87	-1.7	-51.4	51.6	47.3	4.23	12.203	
1,100.0	1,100.0	1,095.5	1,094.9	2.4	2.3	-93.61	-93.61	-3.8	-59.6	60.0	55.3	4.66	12.880	
1,200.0	1,200.0	1,192.5	1,191.3	2.6	2.5	-95.35	-95.35	-6.6	-70.8	71.8	66.7	5.10	14.071	
1,300.0	1,300.0	1,290.6	1,288.3	2.8	2.8	-96.85	-96.85	-10.2	-84.7	86.3	80.7	5.57	15.506	
1,400.0	1,400.0	1,389.5	1,386.1	3.0	3.1	-97.94	-97.94	-13.8	-99.0	101.0	95.0	6.04	16.733	
1,500.0	1,500.0	1,488.4	1,483.9	3.3	3.4	-98.76	-98.76	-17.4	-113.2	115.8	109.3	6.52	17.760	
1,600.0	1,600.0	1,587.2	1,581.7	3.5	3.7	-99.39	-99.39	-21.1	-127.4	130.6	123.6	7.01	18.626	
1,700.0	1,700.0	1,686.3	1,679.6	3.7	4.0	-32.68	-32.68	-24.7	-141.7	144.3	137.0	7.28	19.827	
1,800.0	1,799.9	1,785.6	1,777.8	3.9	4.4	-32.92	-32.92	-28.4	-156.0	155.9	148.2	7.69	20.278	
1,900.0	1,899.7	1,885.2	1,876.3	4.1	4.7	-33.64	-33.64	-32.0	-170.3	165.2	157.1	8.10	20.394	
2,000.0	1,999.3	1,984.8	1,974.8	4.3	5.0	-34.77	-34.77	-35.7	-184.7	172.5	163.9	8.53	20.227	
2,100.0	2,098.6	2,084.6	2,073.5	4.5	5.4	-36.30	-36.30	-39.3	-199.0	177.8	168.9	8.97	19.828	
2,200.0	2,197.9	2,184.3	2,172.1	4.7	5.7	-37.86	-37.86	-43.0	-213.4	182.9	173.5	9.43	19.397	
2,300.0	2,297.1	2,284.1	2,270.8	4.9	6.1	-39.34	-39.34	-46.7	-227.7	188.2	178.3	9.91	18.994	
2,400.0	2,396.4	2,383.8	2,369.4	5.2	6.4	-40.73	-40.73	-50.3	-242.1	193.5	183.1	10.39	18.618	
2,500.0	2,495.7	2,483.6	2,468.0	5.5	6.8	-42.05	-42.05	-54.0	-256.5	199.0	188.1	10.89	18.265	
2,600.0	2,595.0	2,583.3	2,566.7	5.7	7.1	-43.30	-43.30	-57.6	-270.8	204.5	193.1	11.40	17.936	
2,700.0	2,694.2	2,683.1	2,665.3	6.0	7.5	-44.48	-44.48	-61.3	-285.2	210.1	198.2	11.92	17.626	
2,800.0	2,793.5	2,782.8	2,764.0	6.3	7.8	-45.60	-45.60	-65.0	-299.5	215.9	203.4	12.45	17.337	
2,900.0	2,892.8	2,882.6	2,862.6	6.5	8.2	-46.67	-46.67	-68.6	-313.9	221.7	208.7	12.99	17.065	
3,000.0	2,992.0	2,982.3	2,961.3	6.8	8.6	-47.67	-47.67	-72.3	-328.2	227.6	214.0	13.54	16.810	
3,100.0	3,091.3	3,082.1	3,059.9	7.1	8.9	-48.63	-48.63	-76.0	-342.6	233.5	219.4	14.09	16.571	
3,200.0	3,190.6	3,181.8	3,158.5	7.4	9.3	-49.54	-49.54	-79.6	-357.0	239.5	224.9	14.65	16.346	
3,300.0	3,289.9	3,281.6	3,257.2	7.7	9.6	-50.40	-50.40	-83.3	-371.3	245.6	230.4	15.22	16.134	
3,400.0	3,389.1	3,381.3	3,355.8	8.0	10.0	-51.22	-51.22	-86.9	-385.7	251.7	235.9	15.79	15.936	
3,500.0	3,488.4	3,481.1	3,454.5	8.3	10.3	-52.01	-52.01	-90.6	-400.0	257.9	241.5	16.37	15.749	
3,600.0	3,587.7	3,580.8	3,553.1	8.6	10.7	-52.74	-52.74	-94.3	-414.4	264.3	247.3	16.94	15.596	
3,700.0	3,687.3	3,680.5	3,651.7	8.8	11.1	-53.11	-53.11	-97.9	-428.7	272.0	254.6	17.46	15.585	
3,800.0	3,787.0	3,780.0	3,750.1	9.0	11.4	-53.05	-53.05	-101.6	-443.1	281.4	263.5	17.93	15.695	
3,900.0	3,886.9	3,879.4	3,848.4	9.2	11.8	-52.62	-52.62	-105.2	-457.4	292.3	274.0	18.37	15.918	
4,000.0	3,986.9	3,978.5	3,946.4	9.4	12.1	-51.85	-51.85	-108.9	-471.6	304.9	286.1	18.76	16.250	
4,100.0	4,086.9	4,077.4	4,044.2	9.6	12.5	-81.60	-81.60	-112.5	-485.9	318.6	299.4	19.14	16.646	
4,200.0	4,186.9	4,176.3	4,142.0	9.8	12.8	-82.59	-82.59	-116.1	-500.1	332.3	312.8	19.53	17.013	
4,300.0	4,286.9	4,275.2	4,239.8	10.0	13.2	-83.49	-83.49	-119.8	-514.3	346.2	326.3	19.94	17.365	
4,400.0	4,386.9	4,374.1	4,337.6	10.2	13.6	-84.33	-84.33	-123.4	-528.6	360.1	339.8	20.34	17.703	
4,500.0	4,486.9	4,472.9	4,435.4	10.4	13.9	-85.11	-85.11	-127.0	-542.8	374.2	353.4	20.75	18.029	
4,600.0	4,586.9	4,571.8	4,533.1	10.6	14.3	-85.83	-85.83	-130.6	-557.0	388.2	367.1	21.17	18.341	
4,700.0	4,686.9	4,670.7	4,630.9	10.8	14.6	-86.50	-86.50	-134.3	-571.3	402.4	380.8	21.59	18.641	
4,800.0	4,786.9	4,769.6	4,728.7	11.0	15.0	-87.12	-87.12	-137.9	-585.5	416.5	394.5	22.01	18.929	
4,900.0	4,886.9	4,868.5	4,826.5	11.2	15.4	-87.71	-87.71	-141.5	-599.7	430.8	408.3	22.43	19.206	

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-30-7N
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-30-7N	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
5,000.0	4,986.9	4,967.4	4,924.3	11.4	15.7	-88.25	-145.2	-614.0	445.0	422.2	22.86	19.472		
5,100.0	5,086.9	5,066.3	5,022.1	11.6	16.1	-88.76	-148.8	-628.2	459.3	436.1	23.28	19.728		
5,200.0	5,186.9	5,173.9	5,128.6	11.8	16.4	-89.27	-152.6	-643.2	473.3	449.5	23.72	19.954		
5,300.0	5,286.9	5,292.5	5,246.5	12.0	16.7	-89.67	-155.8	-655.7	483.8	459.7	24.13	20.047		
5,400.0	5,386.9	5,411.9	5,365.6	12.2	16.9	-89.91	-157.8	-663.6	490.4	465.8	24.54	19.981		
5,500.0	5,486.9	5,531.8	5,485.5	12.4	17.1	-90.00	-158.6	-666.6	492.9	467.9	24.95	19.754		
5,600.0	5,586.9	5,634.2	5,587.9	12.6	17.3	-90.00	-158.6	-666.6	492.9	467.6	25.35	19.447		
5,700.0	5,686.9	5,734.2	5,687.9	12.8	17.4	-90.00	-158.6	-666.6	492.9	467.2	25.74	19.151		
5,800.0	5,786.9	5,834.2	5,787.9	13.0	17.6	-90.00	-158.6	-666.6	492.9	466.8	26.13	18.863		
5,900.0	5,886.9	5,934.2	5,887.9	13.2	17.7	-90.00	-158.6	-666.6	492.9	466.4	26.53	18.581		
6,000.0	5,986.9	6,034.2	5,987.9	13.4	17.9	-90.00	-158.6	-666.6	492.9	466.0	26.92	18.307		
6,100.0	6,086.9	6,134.2	6,087.9	13.6	18.0	-90.00	-158.6	-666.6	492.9	465.6	27.32	18.040		
6,200.0	6,186.9	6,234.2	6,187.9	13.8	18.2	-90.00	-158.6	-666.6	492.9	465.2	27.72	17.780		
6,300.0	6,286.9	6,334.2	6,287.9	14.0	18.3	-90.00	-158.6	-666.6	492.9	464.8	28.13	17.526		
6,400.0	6,386.9	6,434.2	6,387.9	14.2	18.5	-90.00	-158.6	-666.6	492.9	464.4	28.53	17.278		
6,500.0	6,486.9	6,534.2	6,487.9	14.4	18.6	-90.00	-158.6	-666.6	492.9	464.0	28.93	17.037		
6,600.0	6,586.9	6,634.2	6,587.9	14.6	18.8	-90.00	-158.6	-666.6	492.9	463.6	29.34	16.801		
6,700.0	6,686.9	6,734.2	6,687.9	14.9	18.9	-90.00	-158.6	-666.6	492.9	463.2	29.75	16.571		
6,762.7	6,749.6	6,797.0	6,750.6	15.0	19.0	-90.28	-158.6	-666.6	492.9	462.9	30.01	16.425		
6,800.0	6,786.9	6,834.3	6,787.9	15.1	19.1	-90.24	-158.5	-666.6	492.9	462.8	30.16	16.342		
6,900.0	6,886.1	6,934.6	6,887.4	15.2	19.2	-90.23	-146.8	-666.6	492.9	462.4	30.49	16.164		
7,000.0	6,981.2	7,034.9	6,982.8	15.4	19.3	-90.22	-116.3	-666.5	492.9	462.2	30.73	16.044		
7,100.0	7,068.8	7,135.2	7,070.6	15.5	19.4	-90.19	-68.1	-666.3	493.0	462.0	30.92	15.943		
7,200.0	7,145.6	7,235.5	7,147.5	15.6	19.5	-90.16	-4.0	-666.1	493.0	461.8	31.18	15.811		
7,300.0	7,208.9	7,335.7	7,210.7	15.7	19.5	-90.13	73.6	-665.8	493.0	461.4	31.63	15.590		
7,400.0	7,256.3	7,435.8	7,257.9	16.0	19.6	-90.09	161.7	-665.5	493.1	460.7	32.35	15.242		
7,500.0	7,286.0	7,535.9	7,287.4	16.5	19.9	-90.05	257.2	-665.1	493.2	459.7	33.42	14.755		
7,600.0	7,297.0	7,636.0	7,298.0	17.2	20.3	-90.00	356.5	-664.8	493.2	458.4	34.83	14.159		
7,700.0	7,296.6	7,736.0	7,297.6	18.1	20.9	-90.00	456.5	-664.4	493.3	456.7	36.58	13.483		
7,800.0	7,296.2	7,836.0	7,297.1	19.1	21.7	-90.00	556.5	-664.1	493.3	454.7	38.62	12.775		
7,900.0	7,295.7	7,936.0	7,296.7	20.3	22.7	-90.00	656.5	-663.7	493.4	452.5	40.91	12.060		
8,000.0	7,295.2	8,036.0	7,296.2	21.6	23.8	-90.00	756.5	-663.4	493.4	450.0	43.42	11.364		
8,100.0	7,294.8	8,136.0	7,295.7	22.9	25.0	-90.00	856.5	-663.0	493.5	447.4	46.11	10.702		
8,200.0	7,294.3	8,236.0	7,295.3	24.4	26.3	-90.00	956.5	-662.7	493.6	444.6	48.95	10.082		
8,300.0	7,293.8	8,336.0	7,294.8	25.8	27.7	-90.00	1,056.5	-662.3	493.6	441.7	51.92	9.507		
8,400.0	7,293.3	8,436.0	7,294.3	27.4	29.1	-90.00	1,156.5	-662.0	493.7	438.7	55.00	8.976		
8,500.0	7,292.9	8,536.0	7,293.8	29.0	30.6	-90.00	1,256.5	-661.6	493.7	435.6	58.16	8.489		
8,600.0	7,292.4	8,636.0	7,293.4	30.6	32.2	-90.00	1,356.5	-661.3	493.8	432.4	61.41	8.041		
8,700.0	7,291.9	8,736.0	7,292.9	32.3	33.8	-90.00	1,456.5	-660.9	493.8	429.1	64.71	7.632		
8,800.0	7,291.5	8,836.0	7,292.4	33.9	35.4	-90.00	1,556.5	-660.6	493.9	425.8	68.07	7.256		
8,900.0	7,291.0	8,936.0	7,292.0	35.7	37.0	-90.00	1,656.5	-660.2	494.0	422.5	71.48	6.911		
9,000.0	7,290.5	9,036.0	7,291.5	37.4	38.7	-90.00	1,756.5	-659.8	494.0	419.1	74.93	6.593		
9,100.0	7,290.0	9,136.0	7,291.0	39.1	40.4	-90.00	1,856.5	-659.5	494.1	415.7	78.41	6.301		
9,200.0	7,289.6	9,236.0	7,290.5	40.9	42.1	-90.00	1,956.5	-659.1	494.1	412.2	81.92	6.032		
9,300.0	7,289.1	9,336.0	7,290.1	42.7	43.8	-90.00	2,056.5	-658.8	494.2	408.7	85.46	5.783		
9,400.0	7,288.6	9,436.0	7,289.6	44.4	45.6	-90.00	2,156.5	-658.4	494.3	405.2	89.03	5.552		
9,500.0	7,288.2	9,536.0	7,289.1	46.2	47.3	-90.00	2,256.5	-658.1	494.3	401.7	92.61	5.337		
9,600.0	7,287.7	9,636.0	7,288.7	48.0	49.1	-90.00	2,356.5	-657.7	494.4	398.1	96.22	5.138		
9,700.0	7,287.2	9,736.0	7,288.2	49.9	50.9	-90.00	2,456.5	-657.4	494.4	394.6	99.84	4.952		
9,800.0	7,286.7	9,836.0	7,287.7	51.7	52.7	-90.00	2,556.5	-657.0	494.5	391.0	103.47	4.779		
9,900.0	7,286.3	9,936.0	7,287.2	53.5	54.5	-90.00	2,656.5	-656.7	494.5	387.4	107.12	4.617		

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-30-7N
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-30-7N	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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,000.0	7,285.8	10,036.0	7,286.8	55.3	56.3	-90.00	2,756.5	-656.3	494.6	383.8	110.79	4.464		
10,100.0	7,285.3	10,136.0	7,286.3	57.2	58.1	-90.00	2,856.5	-656.0	494.7	380.2	114.46	4.322		
10,200.0	7,284.9	10,236.0	7,285.8	59.0	59.9	-90.00	2,956.5	-655.6	494.7	376.6	118.14	4.188		
10,300.0	7,284.4	10,336.0	7,285.4	60.9	61.7	-90.00	3,056.5	-655.2	494.8	372.9	121.83	4.061		
10,400.0	7,283.9	10,436.0	7,284.9	62.7	63.5	-90.00	3,156.5	-654.9	494.8	369.3	125.53	3.942		
10,500.0	7,283.4	10,536.0	7,284.4	64.6	65.4	-90.00	3,256.5	-654.5	494.9	365.6	129.24	3.829		
10,600.0	7,283.0	10,636.0	7,284.0	66.4	67.2	-90.00	3,356.5	-654.2	494.9	362.0	132.95	3.723		
10,700.0	7,282.5	10,736.0	7,283.5	68.3	69.1	-90.00	3,456.5	-653.8	495.0	358.3	136.67	3.622		
10,800.0	7,282.0	10,836.0	7,283.0	70.1	70.9	-90.00	3,556.5	-653.5	495.1	354.7	140.40	3.526		
10,900.0	7,281.6	10,936.0	7,282.5	72.0	72.8	-90.00	3,656.5	-653.1	495.1	351.0	144.13	3.435		
11,000.0	7,281.1	11,036.0	7,282.1	73.9	74.6	-90.00	3,756.5	-652.8	495.2	347.3	147.86	3.349		
11,100.0	7,280.6	11,136.0	7,281.6	75.8	76.5	-90.00	3,856.5	-652.4	495.2	343.6	151.61	3.267		
11,200.0	7,280.1	11,236.0	7,281.1	77.6	78.3	-90.00	3,956.5	-652.1	495.3	339.9	155.35	3.188		
11,300.0	7,279.7	11,336.0	7,280.7	79.5	80.2	-90.00	4,056.5	-651.7	495.3	336.2	159.10	3.113		
11,400.0	7,279.2	11,436.0	7,280.2	81.4	82.0	-90.00	4,156.5	-651.4	495.4	332.6	162.85	3.042		
11,500.0	7,278.7	11,536.0	7,279.7	83.3	83.9	-90.00	4,256.5	-651.0	495.5	328.9	166.61	2.974		
11,600.0	7,278.3	11,636.0	7,279.2	85.1	85.8	-90.00	4,356.5	-650.6	495.5	325.2	170.37	2.909		
11,700.0	7,277.8	11,736.0	7,278.8	87.0	87.6	-90.00	4,456.5	-650.3	495.6	321.4	174.13	2.846		
11,800.0	7,277.3	11,836.0	7,278.3	88.9	89.5	-90.00	4,556.5	-649.9	495.6	317.7	177.89	2.786		
11,835.7	7,277.2	11,871.7	7,278.1	89.4	90.2	-90.00	4,592.2	-649.8	495.7	316.5	179.11	2.767		
11,868.1	7,277.0	11,899.4	7,278.0	89.9	90.7	-90.00	4,619.9	-649.7	495.7	315.6	180.13	2.752 SF		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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 (ft)	Offset (ft)	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	-89.99	0.0	-28.0	28.0	28.0	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	-89.99	0.0	-28.0	28.0	27.8	0.23	123.385		
200.0	200.0	201.0	201.0	0.3	0.3	-89.99	0.0	-28.0	28.0	27.3	0.68	41.401		
300.0	300.0	301.0	301.0	0.6	0.6	-89.99	0.0	-28.0	28.0	26.9	1.13	24.874		
400.0	400.0	401.0	401.0	0.8	0.8	-89.99	0.0	-28.0	28.0	26.4	1.58	17.777		
500.0	500.0	501.0	501.0	1.0	1.0	-89.99	0.0	-28.0	28.0	26.0	2.03	13.831		
600.0	600.0	601.0	601.0	1.2	1.2	-89.99	0.0	-28.0	28.0	25.5	2.47	11.319		
700.0	700.0	701.0	701.0	1.5	1.5	-89.99	0.0	-28.0	28.0	25.1	2.92	9.579		
800.0	800.0	801.0	801.0	1.7	1.7	-89.99	0.0	-28.0	28.0	24.6	3.37	8.302		
900.0	900.0	901.0	901.0	1.9	1.9	-89.99	0.0	-28.0	28.0	24.2	3.82	7.326		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-89.99	0.0	-28.0	28.0	23.7	4.27	6.555		
1,100.0	1,100.0	1,101.0	1,101.0	2.4	2.4	-89.99	0.0	-28.0	28.0	23.3	4.72	5.931		
1,166.3	1,166.3	1,167.3	1,167.3	2.5	2.5	-89.99	0.0	-28.0	28.0	23.0	5.02	5.579 CC		
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	-89.99	0.0	-28.0	28.0	22.8	5.17	5.416 ES		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-91.06	-0.6	-29.7	29.7	24.1	5.60	5.300		
1,400.0	1,400.0	1,398.8	1,398.7	3.0	3.0	-93.62	-2.2	-34.6	34.7	28.7	6.02	5.764		
1,500.0	1,500.0	1,497.2	1,496.6	3.3	3.2	-96.54	-4.9	-42.6	43.1	36.7	6.45	6.689		
1,600.0	1,600.0	1,594.8	1,593.5	3.5	3.4	-99.11	-8.6	-53.8	55.0	48.1	6.88	7.986		
1,700.0	1,700.0	1,693.4	1,691.1	3.7	3.7	31.80	-13.2	-67.3	68.2	60.9	7.27	9.383		
1,800.0	1,799.9	1,792.8	1,789.4	3.9	3.9	31.75	-17.8	-81.1	79.4	71.7	7.65	10.372		
1,900.0	1,899.7	1,892.4	1,887.9	4.1	4.2	32.60	-22.4	-94.9	88.3	80.3	8.05	10.980		
2,000.0	1,999.3	1,992.1	1,986.6	4.3	4.5	34.16	-27.0	-108.7	95.1	86.7	8.45	11.260		
2,100.0	2,098.6	2,091.9	2,085.3	4.5	4.8	36.35	-31.7	-122.6	100.1	91.2	8.88	11.275		
2,200.0	2,197.9	2,191.7	2,184.1	4.7	5.1	38.52	-36.3	-136.4	104.7	95.4	9.33	11.232		
2,300.0	2,297.1	2,291.5	2,282.8	4.9	5.4	40.50	-40.9	-150.2	109.6	99.8	9.79	11.189		
2,400.0	2,396.4	2,391.3	2,381.6	5.2	5.8	42.31	-45.6	-164.1	114.5	104.2	10.27	11.145		
2,500.0	2,495.7	2,491.2	2,480.3	5.5	6.1	43.97	-50.2	-177.9	119.5	108.7	10.77	11.101		
2,600.0	2,595.0	2,591.0	2,579.0	5.7	6.4	45.50	-54.8	-191.7	124.6	113.4	11.27	11.055		
2,700.0	2,694.2	2,690.8	2,677.8	6.0	6.8	46.90	-59.5	-205.6	129.8	118.1	11.79	11.010		
2,800.0	2,793.5	2,790.6	2,776.5	6.3	7.1	48.20	-64.1	-219.4	135.1	122.8	12.32	10.964		
2,900.0	2,892.8	2,890.4	2,875.3	6.5	7.4	49.39	-68.7	-233.2	140.5	127.6	12.86	10.919		
3,000.0	2,992.0	2,990.2	2,974.0	6.8	7.8	50.50	-73.4	-247.1	145.9	132.5	13.41	10.875		
3,100.0	3,091.3	3,090.1	3,072.8	7.1	8.1	51.53	-78.0	-260.9	151.3	137.4	13.97	10.831		
3,200.0	3,190.6	3,189.9	3,171.5	7.4	8.5	52.49	-82.7	-274.7	156.8	142.3	14.54	10.788		
3,300.0	3,289.9	3,289.7	3,270.3	7.7	8.8	53.38	-87.3	-288.6	162.4	147.2	15.11	10.746		
3,400.0	3,389.1	3,389.5	3,369.0	8.0	9.2	54.22	-91.9	-302.4	167.9	152.2	15.69	10.706		
3,500.0	3,488.4	3,489.3	3,467.7	8.3	9.5	55.00	-96.6	-316.2	173.5	157.3	16.27	10.667		
3,600.0	3,587.7	3,589.1	3,566.5	8.6	9.9	55.69	-101.2	-330.1	179.3	162.5	16.84	10.648		
3,700.0	3,687.3	3,688.9	3,665.2	8.8	10.2	55.80	-105.8	-343.9	186.4	169.1	17.35	10.747		
3,800.0	3,787.0	3,788.5	3,763.7	9.0	10.6	55.30	-110.4	-357.7	195.0	177.2	17.81	10.949		
3,900.0	3,886.9	3,887.9	3,862.0	9.2	10.9	54.26	-115.1	-371.5	205.1	186.9	18.23	11.254		
4,000.0	3,986.9	3,987.0	3,960.1	9.4	11.3	52.80	-119.7	-385.2	216.9	198.3	18.60	11.660		
4,100.0	4,086.9	4,085.9	4,058.0	9.6	11.6	-81.33	-124.3	-398.9	229.8	210.8	18.95	12.127		
4,200.0	4,186.9	4,184.9	4,155.8	9.8	12.0	-82.90	-128.9	-412.6	242.9	223.6	19.32	12.571		
4,300.0	4,286.9	4,283.8	4,253.7	10.0	12.3	-84.31	-133.4	-426.3	256.2	236.5	19.70	13.001		
4,400.0	4,386.9	4,382.7	4,351.6	10.2	12.7	-85.59	-138.0	-440.1	269.6	249.5	20.09	13.418		
4,500.0	4,486.9	4,481.7	4,449.4	10.4	13.0	-86.74	-142.6	-453.8	283.1	262.7	20.49	13.819		
4,600.0	4,586.9	4,580.6	4,547.3	10.6	13.4	-87.78	-147.2	-467.5	296.8	275.9	20.89	14.207		
4,700.0	4,686.9	4,686.8	4,652.5	10.8	13.7	-88.75	-151.9	-481.4	309.8	288.5	21.29	14.547		
4,800.0	4,786.9	4,797.8	4,762.9	11.0	14.0	-89.44	-155.5	-492.1	319.4	297.7	21.68	14.732		
4,900.0	4,886.9	4,909.5	4,874.4	11.2	14.2	-89.84	-157.7	-498.8	325.4	303.3	22.07	14.743		

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-30-7N
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-30-7N	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	4,986.9	5,021.6	4,986.4	11.4	14.3	-90.00	-90.00	-158.6	-501.4	327.7	305.2	22.47	14.586	
5,100.0	5,086.9	5,123.1	5,087.9	11.6	14.5	-90.00	-90.00	-158.6	-501.4	327.7	304.8	22.86	14.335	
5,200.0	5,186.9	5,223.1	5,187.9	11.8	14.7	-90.00	-90.00	-158.6	-501.4	327.7	304.5	23.26	14.091	
5,300.0	5,286.9	5,323.1	5,287.9	12.0	14.8	-90.00	-90.00	-158.6	-501.4	327.7	304.1	23.65	13.855	
5,400.0	5,386.9	5,423.1	5,387.9	12.2	15.0	-90.00	-90.00	-158.6	-501.4	327.7	303.7	24.05	13.625	
5,500.0	5,486.9	5,523.1	5,487.9	12.4	15.1	-90.00	-90.00	-158.6	-501.4	327.7	303.3	24.45	13.402	
5,600.0	5,586.9	5,623.1	5,587.9	12.6	15.3	-90.00	-90.00	-158.6	-501.4	327.7	302.9	24.86	13.185	
5,700.0	5,686.9	5,723.1	5,687.9	12.8	15.5	-90.00	-90.00	-158.6	-501.4	327.7	302.5	25.26	12.974	
5,800.0	5,786.9	5,823.1	5,787.9	13.0	15.6	-90.00	-90.00	-158.6	-501.4	327.7	302.0	25.66	12.769	
5,900.0	5,886.9	5,923.1	5,887.9	13.2	15.8	-90.00	-90.00	-158.6	-501.4	327.7	301.6	26.07	12.570	
6,000.0	5,986.9	6,023.1	5,987.9	13.4	16.0	-90.00	-90.00	-158.6	-501.4	327.7	301.2	26.48	12.376	
6,100.0	6,086.9	6,123.1	6,087.9	13.6	16.1	-90.00	-90.00	-158.6	-501.4	327.7	300.8	26.89	12.188	
6,200.0	6,186.9	6,223.1	6,187.9	13.8	16.3	-90.00	-90.00	-158.6	-501.4	327.7	300.4	27.30	12.004	
6,300.0	6,286.9	6,323.1	6,287.9	14.0	16.5	-90.00	-90.00	-158.6	-501.4	327.7	300.0	27.71	11.826	
6,400.0	6,386.9	6,423.1	6,387.9	14.2	16.7	-90.00	-90.00	-158.6	-501.4	327.7	299.6	28.12	11.652	
6,500.0	6,486.9	6,523.1	6,487.9	14.4	16.8	-90.00	-90.00	-158.6	-501.4	327.7	299.2	28.54	11.483	
6,600.0	6,586.9	6,623.1	6,587.9	14.6	17.0	-90.00	-90.00	-158.6	-501.4	327.7	298.8	28.95	11.318	
6,700.0	6,686.9	6,723.1	6,687.9	14.9	17.2	-90.00	-90.00	-158.6	-501.4	327.7	298.3	29.37	11.158	
6,762.8	6,749.7	6,785.9	6,750.7	15.0	17.3	-90.31	-90.31	-158.6	-501.4	327.7	298.1	29.64	11.057	
6,800.0	6,786.9	6,823.1	6,787.9	15.1	17.4	-90.25	-90.25	-158.6	-501.4	327.7	297.9	29.80	10.999	
6,900.0	6,886.1	6,922.2	6,887.1	15.2	17.6	-92.23	-92.23	-158.6	-501.4	328.0	297.9	30.09	10.900	
7,000.0	6,981.2	7,017.8	6,982.7	15.4	17.7	-96.97	-96.97	-158.6	-501.4	330.6	300.4	30.21	10.944	
7,100.0	7,068.8	7,123.0	7,068.9	15.5	17.9	-102.96	-102.96	-146.9	-501.4	337.7	307.5	30.17	11.192	
7,200.0	7,145.6	7,238.2	7,196.0	15.6	18.0	-108.60	-108.60	-110.3	-501.2	348.2	318.2	29.96	11.621	
7,300.0	7,208.9	7,365.7	7,304.0	15.7	18.1	-113.60	-113.60	-43.1	-501.0	360.5	330.9	29.60	12.177	
7,400.0	7,256.3	7,506.5	7,400.4	16.0	18.2	-117.64	-117.64	58.9	-500.6	372.1	342.9	29.27	12.715	
7,500.0	7,286.0	7,659.4	7,470.1	16.5	18.5	-120.35	-120.35	194.4	-500.2	380.7	351.4	29.33	12.979	
7,600.0	7,297.0	7,820.1	7,497.8	17.2	19.1	-121.34	-121.34	352.0	-499.6	384.1	353.9	30.19	12.719	
7,700.0	7,296.6	7,924.7	7,497.5	18.1	19.9	-121.35	-121.35	456.6	-499.2	384.2	352.5	31.65	12.138	
7,800.0	7,296.2	8,024.7	7,497.2	19.1	20.8	-121.37	-121.37	556.6	-498.9	384.3	350.9	33.37	11.515	
7,900.0	7,295.7	8,124.7	7,496.8	20.3	21.8	-121.38	-121.38	656.6	-498.5	384.4	349.1	35.33	10.881	
8,000.0	7,295.2	8,224.7	7,496.5	21.6	23.0	-121.39	-121.39	756.6	-498.2	384.5	347.0	37.48	10.258	
8,100.0	7,294.8	8,324.7	7,496.1	22.9	24.3	-121.40	-121.40	856.6	-497.8	384.6	344.8	39.80	9.663	
8,200.0	7,294.3	8,424.7	7,495.8	24.4	25.6	-121.41	-121.41	956.6	-497.5	384.7	342.5	42.26	9.103	
8,300.0	7,293.8	8,524.7	7,495.4	25.8	27.0	-121.42	-121.42	1,056.6	-497.1	384.8	340.0	44.84	8.583	
8,400.0	7,293.3	8,624.7	7,495.1	27.4	28.5	-121.43	-121.43	1,156.6	-496.8	384.9	337.4	47.51	8.103	
8,500.0	7,292.9	8,724.7	7,494.7	29.0	30.1	-121.44	-121.44	1,256.6	-496.4	385.1	334.8	50.26	7.661	
8,600.0	7,292.4	8,824.7	7,494.4	30.6	31.6	-121.45	-121.45	1,356.6	-496.0	385.2	332.1	53.08	7.256	
8,700.0	7,291.9	8,924.7	7,494.0	32.3	33.2	-121.47	-121.47	1,456.6	-495.7	385.3	329.3	55.96	6.885	
8,800.0	7,291.5	9,024.7	7,493.7	33.9	34.9	-121.48	-121.48	1,556.6	-495.3	385.4	326.5	58.89	6.544	
8,900.0	7,291.0	9,124.7	7,493.3	35.7	36.5	-121.49	-121.49	1,656.6	-495.0	385.5	323.7	61.86	6.232	
9,000.0	7,290.5	9,224.7	7,493.0	37.4	38.2	-121.50	-121.50	1,756.6	-494.6	385.6	320.8	64.87	5.945	
9,100.0	7,290.0	9,324.7	7,492.6	39.1	39.9	-121.51	-121.51	1,856.6	-494.3	385.7	317.8	67.91	5.680	
9,200.0	7,289.6	9,424.7	7,492.3	40.9	41.7	-121.52	-121.52	1,956.6	-493.9	385.8	314.9	70.97	5.437	
9,300.0	7,289.1	9,524.7	7,491.9	42.7	43.4	-121.53	-121.53	2,056.6	-493.6	386.0	311.9	74.06	5.211	
9,400.0	7,288.6	9,624.7	7,491.6	44.4	45.2	-121.54	-121.54	2,156.6	-493.2	386.1	308.9	77.17	5.003	
9,500.0	7,288.2	9,724.7	7,491.2	46.2	46.9	-121.55	-121.55	2,256.6	-492.9	386.2	305.9	80.30	4.809	
9,600.0	7,287.7	9,824.7	7,490.9	48.0	48.7	-121.56	-121.56	2,356.6	-492.5	386.3	302.9	83.44	4.629	
9,700.0	7,287.2	9,924.7	7,490.5	49.9	50.5	-121.58	-121.58	2,456.6	-492.1	386.4	299.8	86.60	4.462	
9,800.0	7,286.7	10,024.7	7,490.2	51.7	52.3	-121.59	-121.59	2,556.6	-491.8	386.5	296.7	89.78	4.305	
9,900.0	7,286.3	10,124.7	7,489.9	53.5	54.1	-121.60	-121.60	2,656.6	-491.4	386.6	293.7	92.96	4.159	

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-30-7N
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-30-7N	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
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)			
10,000.0	7,285.8	10,224.7	7,489.5	55.3	55.9	-121.61	2,756.6	-491.1	386.8	290.6	96.15	4.022		
10,100.0	7,285.3	10,324.7	7,489.2	57.2	57.7	-121.62	2,856.6	-490.7	386.9	287.5	99.36	3.894		
10,200.0	7,284.9	10,424.7	7,488.8	59.0	59.6	-121.63	2,956.6	-490.4	387.0	284.4	102.57	3.773		
10,300.0	7,284.4	10,524.7	7,488.5	60.9	61.4	-121.64	3,056.6	-490.0	387.1	281.3	105.79	3.659		
10,400.0	7,283.9	10,624.7	7,488.1	62.7	63.2	-121.65	3,156.6	-489.7	387.2	278.2	109.01	3.552		
10,500.0	7,283.4	10,724.7	7,487.8	64.6	65.1	-121.66	3,256.6	-489.3	387.3	275.1	112.24	3.451		
10,600.0	7,283.0	10,824.7	7,487.4	66.4	66.9	-121.67	3,356.6	-489.0	387.4	271.9	115.48	3.355		
10,700.0	7,282.5	10,924.7	7,487.1	68.3	68.8	-121.68	3,456.6	-488.6	387.5	268.8	118.72	3.264		
10,800.0	7,282.0	11,024.7	7,486.7	70.1	70.6	-121.70	3,556.6	-488.3	387.7	265.7	121.97	3.178		
10,900.0	7,281.6	11,124.7	7,486.4	72.0	72.5	-121.71	3,656.6	-487.9	387.8	262.5	125.22	3.097		
11,000.0	7,281.1	11,224.7	7,486.0	73.9	74.3	-121.72	3,756.6	-487.5	387.9	259.4	128.47	3.019		
11,100.0	7,280.6	11,324.7	7,485.7	75.8	76.2	-121.73	3,856.6	-487.2	388.0	256.3	131.73	2.945		
11,200.0	7,280.1	11,424.7	7,485.3	77.6	78.0	-121.74	3,956.6	-486.8	388.1	253.1	134.99	2.875		
11,300.0	7,279.7	11,524.7	7,485.0	79.5	79.9	-121.75	4,056.6	-486.5	388.2	250.0	138.25	2.808		
11,400.0	7,279.2	11,624.7	7,484.6	81.4	81.8	-121.76	4,156.6	-486.1	388.3	246.8	141.52	2.744		
11,500.0	7,278.7	11,724.7	7,484.3	83.3	83.7	-121.77	4,256.6	-485.8	388.4	243.7	144.79	2.683		
11,600.0	7,278.3	11,824.7	7,483.9	85.1	85.5	-121.78	4,356.6	-485.4	388.6	240.5	148.06	2.624		
11,700.0	7,277.8	11,924.7	7,483.6	87.0	87.4	-121.79	4,456.6	-485.1	388.7	237.3	151.33	2.568		
11,800.0	7,277.3	12,024.7	7,483.2	88.9	89.3	-121.80	4,556.6	-484.7	388.8	234.2	154.61	2.515		
11,834.3	7,277.2	12,059.0	7,483.1	89.4	89.9	-121.81	4,590.9	-484.6	388.8	233.2	155.62	2.499		
11,868.1	7,277.0	12,088.1	7,483.0	89.9	90.5	-121.81	4,619.9	-484.5	388.9	232.4	156.53	2.484 SF		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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)	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	-89.98	-89.98	0.0	-14.0	14.0	14.0	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-89.98	-89.98	0.0	-14.0	14.0	13.8	0.23	61.692	
200.0	200.0	201.0	201.0	0.3	0.3	-89.98	-89.98	0.0	-14.0	14.0	13.3	0.68	20.701	
300.0	300.0	301.0	301.0	0.6	0.6	-89.98	-89.98	0.0	-14.0	14.0	12.9	1.13	12.437	
400.0	400.0	401.0	401.0	0.8	0.8	-89.98	-89.98	0.0	-14.0	14.0	12.4	1.58	8.889	
500.0	500.0	501.0	501.0	1.0	1.0	-89.98	-89.98	0.0	-14.0	14.0	12.0	2.03	6.916	
600.0	600.0	601.0	601.0	1.2	1.2	-89.98	-89.98	0.0	-14.0	14.0	11.5	2.47	5.659	
700.0	700.0	701.0	701.0	1.5	1.5	-89.98	-89.98	0.0	-14.0	14.0	11.1	2.92	4.789	
800.0	800.0	801.0	801.0	1.7	1.7	-89.98	-89.98	0.0	-14.0	14.0	10.6	3.37	4.151	
900.0	900.0	901.0	901.0	1.9	1.9	-89.98	-89.98	0.0	-14.0	14.0	10.2	3.82	3.663	
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	-89.98	-89.98	0.0	-14.0	14.0	9.7	4.27	3.278	
1,100.0	1,100.0	1,101.0	1,101.0	2.4	2.4	-89.98	-89.98	0.0	-14.0	14.0	9.3	4.72	2.966	
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	-89.98	-89.98	0.0	-14.0	14.0	8.8	5.17	2.708	
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	-89.98	-89.98	0.0	-14.0	14.0	8.4	5.62	2.491	
1,366.3	1,366.3	1,367.3	1,367.3	3.0	3.0	-89.98	-89.98	0.0	-14.0	14.0	8.1	5.92	2.366 CC	
1,400.0	1,400.0	1,401.0	1,401.0	3.0	3.0	-89.98	-89.98	0.0	-14.0	14.0	7.9	6.07	2.307	
1,500.0	1,500.0	1,500.5	1,500.5	3.3	3.2	-92.85	-92.85	-0.8	-15.6	15.6	9.1	6.50	2.402	
1,600.0	1,600.0	1,600.0	1,599.8	3.5	3.4	-98.64	-98.64	-3.1	-20.3	20.5	13.6	6.91	2.969	
1,700.0	1,700.0	1,698.7	1,698.2	3.7	3.6	29.83	29.83	-6.9	-28.0	27.8	20.5	7.30	3.807	
1,800.0	1,799.9	1,797.6	1,796.3	3.9	3.9	28.36	28.36	-12.1	-38.6	36.1	28.4	7.67	4.706	
1,900.0	1,899.7	1,897.3	1,895.2	4.1	4.1	28.76	28.76	-17.9	-50.3	43.2	35.1	8.05	5.361	
2,000.0	1,999.3	1,997.2	1,994.2	4.3	4.3	30.58	30.58	-23.6	-62.0	47.9	39.5	8.44	5.680	
2,100.0	2,098.6	2,097.1	2,093.3	4.5	4.6	33.53	33.53	-29.4	-73.8	50.7	41.9	8.85	5.731	
2,200.0	2,197.9	2,197.0	2,192.4	4.7	4.9	36.49	36.49	-35.2	-85.5	53.2	43.9	9.29	5.732	
2,300.0	2,297.1	2,297.0	2,291.4	4.9	5.2	39.18	39.18	-41.0	-97.2	55.9	46.1	9.74	5.734	
2,400.0	2,396.4	2,396.9	2,390.5	5.2	5.4	41.62	41.62	-46.7	-108.9	58.6	48.4	10.22	5.738	
2,500.0	2,495.7	2,496.8	2,489.6	5.5	5.7	43.84	43.84	-52.5	-120.6	61.5	50.8	10.71	5.742	
2,600.0	2,595.0	2,596.8	2,588.7	5.7	6.0	45.86	45.86	-58.3	-132.3	64.4	53.2	11.21	5.746	
2,700.0	2,694.2	2,696.7	2,687.7	6.0	6.3	47.70	47.70	-64.0	-144.0	67.4	55.7	11.73	5.748	
2,800.0	2,793.5	2,796.6	2,786.8	6.3	6.6	49.39	49.39	-69.8	-155.8	70.5	58.2	12.26	5.750	
2,900.0	2,892.8	2,896.6	2,885.9	6.5	7.0	50.93	50.93	-75.6	-167.5	73.6	60.8	12.80	5.751	
3,000.0	2,992.0	2,996.5	2,985.0	6.8	7.3	52.34	52.34	-81.3	-179.2	76.8	63.4	13.35	5.751	
3,100.0	3,091.3	3,096.4	3,084.0	7.1	7.6	53.64	53.64	-87.1	-190.9	80.0	66.1	13.91	5.750	
3,200.0	3,190.6	3,196.4	3,183.1	7.4	7.9	54.85	54.85	-92.9	-202.6	83.3	68.8	14.48	5.749	
3,300.0	3,289.9	3,296.3	3,282.2	7.7	8.2	55.96	55.96	-98.6	-214.3	86.6	71.5	15.06	5.747	
3,400.0	3,389.1	3,396.2	3,381.3	8.0	8.5	56.98	56.98	-104.4	-226.0	89.9	74.2	15.64	5.745	
3,500.0	3,488.4	3,496.2	3,480.3	8.3	8.9	57.94	57.94	-110.2	-237.8	93.2	77.0	16.23	5.743	
3,600.0	3,587.7	3,596.1	3,579.4	8.6	9.2	58.70	58.70	-115.9	-249.5	96.7	79.9	16.81	5.756	
3,700.0	3,687.3	3,696.0	3,678.4	8.8	9.5	58.34	58.34	-121.7	-261.2	101.5	84.2	17.30	5.865	
3,800.0	3,787.0	3,795.7	3,777.3	9.0	9.8	56.85	56.85	-127.5	-272.9	107.6	89.9	17.73	6.068	
3,900.0	3,886.9	3,895.3	3,876.1	9.2	10.1	54.48	54.48	-133.2	-284.6	115.3	97.2	18.10	6.370	
4,000.0	3,986.9	3,994.7	3,974.6	9.4	10.5	51.49	51.49	-138.9	-296.2	124.8	106.4	18.42	6.775	
4,100.0	4,086.9	4,093.8	4,072.9	9.6	10.8	-84.07	-84.07	-144.7	-307.8	135.7	117.0	18.72	7.250	
4,200.0	4,186.9	4,195.1	4,173.3	9.8	11.1	-86.75	-86.75	-150.3	-319.3	146.6	127.6	19.04	7.700	
4,300.0	4,286.9	4,295.5	4,277.2	10.0	11.3	-88.58	-88.58	-154.8	-328.3	155.0	135.7	19.37	8.006	
4,400.0	4,386.9	4,404.4	4,382.0	10.2	11.6	-89.61	-89.61	-157.5	-333.9	160.3	140.6	19.72	8.130	
4,500.0	4,486.9	4,509.7	4,487.3	10.4	11.7	-89.99	-89.99	-158.6	-336.1	162.4	142.3	20.10	8.079	
4,600.0	4,586.9	4,610.4	4,587.9	10.6	11.9	-90.00	-90.00	-158.6	-336.1	162.4	141.9	20.49	7.926	
4,700.0	4,686.9	4,710.4	4,687.9	10.8	12.1	-90.00	-90.00	-158.6	-336.1	162.4	141.5	20.89	7.776	
4,800.0	4,786.9	4,810.4	4,787.9	11.0	12.2	-90.00	-90.00	-158.6	-336.1	162.4	141.1	21.28	7.630	
4,900.0	4,886.9	4,910.4	4,887.9	11.2	12.4	-90.00	-90.00	-158.6	-336.1	162.4	140.7	21.68	7.490	

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-30-7N
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-30-7N	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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.0	4,986.9	5,010.4	4,987.9	11.4	12.6	-90.00	-90.00	-158.6	-336.1	162.4	140.3	22.09	7.353	
5,100.0	5,086.9	5,110.4	5,087.9	11.6	12.8	-90.00	-90.00	-158.6	-336.1	162.4	139.9	22.49	7.222	
5,200.0	5,186.9	5,210.4	5,187.9	11.8	13.0	-90.00	-90.00	-158.6	-336.1	162.4	139.5	22.89	7.094	
5,300.0	5,286.9	5,310.4	5,287.9	12.0	13.1	-90.00	-90.00	-158.6	-336.1	162.4	139.1	23.30	6.970	
5,400.0	5,386.9	5,410.4	5,387.9	12.2	13.3	-90.00	-90.00	-158.6	-336.1	162.4	138.7	23.71	6.850	
5,500.0	5,486.9	5,510.4	5,487.9	12.4	13.5	-90.00	-90.00	-158.6	-336.1	162.4	138.3	24.12	6.734	
5,600.0	5,586.9	5,610.4	5,587.9	12.6	13.7	-90.00	-90.00	-158.6	-336.1	162.4	137.9	24.53	6.621	
5,700.0	5,686.9	5,710.4	5,687.9	12.8	13.9	-90.00	-90.00	-158.6	-336.1	162.4	137.5	24.94	6.511	
5,800.0	5,786.9	5,810.4	5,787.9	13.0	14.1	-90.00	-90.00	-158.6	-336.1	162.4	137.0	25.36	6.405	
5,900.0	5,886.9	5,910.4	5,887.9	13.2	14.3	-90.00	-90.00	-158.6	-336.1	162.4	136.6	25.77	6.302	
6,000.0	5,986.9	6,010.4	5,987.9	13.4	14.4	-90.00	-90.00	-158.6	-336.1	162.4	136.2	26.19	6.202	
6,100.0	6,086.9	6,110.4	6,087.9	13.6	14.6	-90.00	-90.00	-158.6	-336.1	162.4	135.8	26.60	6.105	
6,200.0	6,186.9	6,210.4	6,187.9	13.8	14.8	-90.00	-90.00	-158.6	-336.1	162.4	135.4	27.02	6.010	
6,300.0	6,286.9	6,310.4	6,287.9	14.0	15.0	-90.00	-90.00	-158.6	-336.1	162.4	135.0	27.44	5.918	
6,400.0	6,386.9	6,410.4	6,387.9	14.2	15.2	-90.00	-90.00	-158.6	-336.1	162.4	134.5	27.86	5.829	
6,500.0	6,486.9	6,510.4	6,487.9	14.4	15.4	-90.00	-90.00	-158.6	-336.1	162.4	134.1	28.28	5.742	
6,600.0	6,586.9	6,610.4	6,587.9	14.6	15.6	-90.00	-90.00	-158.6	-336.1	162.4	133.7	28.70	5.658	
6,700.0	6,686.9	6,710.4	6,687.9	14.9	15.8	-90.00	-90.00	-158.6	-336.1	162.4	133.3	29.13	5.576	
6,762.7	6,749.6	6,773.1	6,750.6	15.0	15.9	-90.38	-90.38	-158.6	-336.1	162.4	133.0	29.39	5.525	
6,800.0	6,786.9	6,810.4	6,787.9	15.1	16.0	-90.23	-90.23	-158.5	-336.1	162.4	132.9	29.55	5.495	
6,900.0	6,886.1	6,910.5	6,887.2	15.2	16.2	-90.23	-90.23	-146.9	-336.1	162.4	132.5	29.90	5.432	
7,000.0	6,981.2	7,010.6	6,982.4	15.4	16.3	-90.22	-90.22	-116.5	-336.0	162.4	132.3	30.14	5.389	
7,100.0	7,068.8	7,110.7	7,070.1	15.5	16.4	-90.19	-90.19	-68.5	-335.8	162.5	132.1	30.34	5.354	
7,200.0	7,145.6	7,210.8	7,146.9	15.6	16.5	-90.16	-90.16	-4.6	-335.6	162.5	131.9	30.61	5.308	
7,300.0	7,208.9	7,310.9	7,210.2	15.7	16.5	-90.13	-90.13	72.7	-335.3	162.5	131.5	31.07	5.232	
7,400.0	7,256.3	7,410.9	7,257.5	16.0	16.7	-90.09	-90.09	160.7	-335.0	162.6	130.8	31.80	5.112	
7,500.0	7,286.0	7,510.9	7,287.1	16.5	17.1	-90.05	-90.05	256.1	-334.6	162.6	129.8	32.89	4.945	
7,600.0	7,297.0	7,611.0	7,298.0	17.2	17.7	-90.00	-90.00	355.4	-334.3	162.7	128.4	34.32	4.741	
7,700.0	7,296.6	7,711.0	7,297.6	18.1	18.6	-90.00	-90.00	455.4	-333.9	162.8	126.7	36.08	4.511	
7,800.0	7,296.2	7,811.0	7,297.2	19.1	19.6	-90.00	-90.00	555.4	-333.6	162.8	124.7	38.14	4.270	
7,900.0	7,295.7	7,911.0	7,296.7	20.3	20.7	-90.00	-90.00	655.4	-333.2	162.9	122.4	40.45	4.027	
8,000.0	7,295.2	8,011.0	7,296.2	21.6	22.0	-90.00	-90.00	755.4	-332.9	162.9	120.0	42.99	3.791	
8,100.0	7,294.8	8,111.0	7,295.8	22.9	23.3	-90.00	-90.00	855.4	-332.5	163.0	117.3	45.70	3.567	
8,200.0	7,294.3	8,211.0	7,295.3	24.4	24.7	-90.00	-90.00	955.3	-332.2	163.1	114.5	48.56	3.358	
8,300.0	7,293.8	8,311.0	7,294.8	25.8	26.2	-90.00	-90.00	1,055.3	-331.8	163.1	111.6	51.55	3.164	
8,400.0	7,293.3	8,411.0	7,294.3	27.4	27.7	-90.00	-90.00	1,155.3	-331.5	163.2	108.5	54.65	2.986	
8,500.0	7,292.9	8,511.0	7,293.9	29.0	29.3	-90.00	-90.00	1,255.3	-331.1	163.2	105.4	57.83	2.823	
8,600.0	7,292.4	8,611.0	7,293.4	30.6	30.9	-90.00	-90.00	1,355.3	-330.8	163.3	102.2	61.08	2.673	
8,700.0	7,291.9	8,711.0	7,292.9	32.3	32.5	-90.00	-90.00	1,455.3	-330.4	163.4	99.0	64.40	2.536	
8,800.0	7,291.5	8,811.0	7,292.5	33.9	34.2	-90.00	-90.00	1,555.3	-330.1	163.4	95.6	67.78	2.411	
8,900.0	7,291.0	8,911.0	7,292.0	35.7	35.9	-90.00	-90.00	1,655.3	-329.7	163.5	92.3	71.20	2.296	
9,000.0	7,290.5	9,011.0	7,291.5	37.4	37.6	-90.00	-90.00	1,755.3	-329.4	163.5	88.9	74.65	2.191	
9,100.0	7,290.0	9,111.0	7,291.0	39.1	39.4	-90.00	-90.00	1,855.3	-329.0	163.6	85.4	78.15	2.093	
9,200.0	7,289.6	9,211.0	7,290.6	40.9	41.1	-90.00	-90.00	1,955.3	-328.7	163.7	82.0	81.67	2.004	
9,300.0	7,289.1	9,311.0	7,290.1	42.7	42.9	-90.00	-90.00	2,055.3	-328.3	163.7	78.5	85.22	1.921	
9,400.0	7,288.6	9,411.0	7,289.6	44.4	44.6	-90.00	-90.00	2,155.3	-328.0	163.8	75.0	88.79	1.844	
9,500.0	7,288.2	9,511.0	7,289.2	46.2	46.4	-90.00	-90.00	2,255.3	-327.6	163.8	71.4	92.39	1.773	
9,600.0	7,287.7	9,611.0	7,288.7	48.0	48.2	-90.00	-90.00	2,355.3	-327.2	163.9	67.9	96.00	1.707	
9,700.0	7,287.2	9,711.0	7,288.2	49.9	50.0	-90.00	-90.00	2,455.3	-326.9	163.9	64.3	99.62	1.646	
9,800.0	7,286.7	9,811.0	7,287.7	51.7	51.9	-90.00	-90.00	2,555.3	-326.5	164.0	60.7	103.27	1.588	
9,900.0	7,286.3	9,911.0	7,287.3	53.5	53.7	-90.00	-90.00	2,655.3	-326.2	164.1	57.1	106.92	1.534	

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-30-7N
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-30-7N	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	10,011.0	7,286.8	55.3	55.5	-90.00	2,755.3	-325.8	164.1	53.5	110.59	1.484	Level 3
10,100.0	7,285.3	10,111.0	7,286.3	57.2	57.3	-90.00	2,855.3	-325.5	164.2	49.9	114.27	1.437	Level 3
10,200.0	7,284.9	10,211.0	7,285.9	59.0	59.2	-90.00	2,955.3	-325.1	164.2	46.3	117.95	1.392	Level 3
10,300.0	7,284.4	10,311.0	7,285.4	60.9	61.0	-90.00	3,055.3	-324.8	164.3	42.7	121.65	1.351	Level 3
10,400.0	7,283.9	10,411.0	7,284.9	62.7	62.9	-90.00	3,155.3	-324.4	164.4	39.0	125.35	1.311	Level 3
10,500.0	7,283.4	10,511.0	7,284.4	64.6	64.7	-90.00	3,255.3	-324.1	164.4	35.4	129.06	1.274	Level 3
10,600.0	7,283.0	10,611.0	7,284.0	66.4	66.6	-90.00	3,355.3	-323.7	164.5	31.7	132.78	1.239	Level 2
10,700.0	7,282.5	10,711.0	7,283.5	68.3	68.4	-90.00	3,455.3	-323.4	164.5	28.0	136.50	1.205	Level 2
10,800.0	7,282.0	10,811.0	7,283.0	70.1	70.3	-90.00	3,555.3	-323.0	164.6	24.4	140.23	1.174	Level 2
10,900.0	7,281.6	10,911.0	7,282.6	72.0	72.1	-90.00	3,655.3	-322.7	164.7	20.7	143.97	1.144	Level 2
11,000.0	7,281.1	11,011.0	7,282.1	73.9	74.0	-90.00	3,755.3	-322.3	164.7	17.0	147.71	1.115	Level 2
11,100.0	7,280.6	11,111.0	7,281.6	75.8	75.9	-90.00	3,855.3	-322.0	164.8	13.3	151.45	1.088	Level 2
11,200.0	7,280.1	11,211.0	7,281.1	77.6	77.8	-90.00	3,955.3	-321.6	164.8	9.6	155.20	1.062	Level 2
11,300.0	7,279.7	11,311.0	7,280.7	79.5	79.6	-90.00	4,055.3	-321.3	164.9	5.9	158.95	1.037	Level 2
11,400.0	7,279.2	11,411.0	7,280.2	81.4	81.5	-90.00	4,155.3	-320.9	165.0	2.2	162.70	1.014	Level 2
11,500.0	7,278.7	11,511.0	7,279.7	83.3	83.4	-90.00	4,255.3	-320.6	165.0	-1.5	166.46	0.991	Level 1
11,600.0	7,278.3	11,611.0	7,279.3	85.1	85.3	-90.00	4,355.3	-320.2	165.1	-5.2	170.22	0.970	Level 1
11,700.0	7,277.8	11,711.0	7,278.8	87.0	87.1	-90.00	4,455.3	-319.8	165.1	-8.9	173.99	0.949	Level 1
11,800.0	7,277.3	11,811.0	7,278.3	88.9	89.0	-90.00	4,555.3	-319.5	165.2	-12.6	177.76	0.929	Level 1
11,868.1	7,277.0	11,879.1	7,278.0	89.9	90.3	-90.00	4,623.4	-319.3	165.2	-14.8	180.08	0.918	Level 1, ES, SF

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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-30-8N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	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	89.99	89.99	0.0	16.8	16.8	16.8	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	89.99	89.99	0.0	16.8	16.8	16.6	0.22	74.771	
200.0	200.0	200.0	200.0	0.3	0.3	89.99	89.99	0.0	16.8	16.8	16.1	0.67	24.924	
300.0	300.0	300.0	300.0	0.6	0.6	89.99	89.99	0.0	16.8	16.8	15.7	1.12	14.954	
400.0	400.0	400.0	400.0	0.8	0.8	89.99	89.99	0.0	16.8	16.8	15.2	1.57	10.682	
500.0	500.0	500.0	500.0	1.0	1.0	89.99	89.99	0.0	16.8	16.8	14.8	2.02	8.308	
600.0	600.0	600.0	600.0	1.2	1.2	89.99	89.99	0.0	16.8	16.8	14.3	2.47	6.797	
700.0	700.0	700.0	700.0	1.5	1.5	89.99	89.99	0.0	16.8	16.8	13.9	2.92	5.752	
800.0	800.0	800.0	800.0	1.7	1.7	89.99	89.99	0.0	16.8	16.8	13.4	3.37	4.985	
900.0	900.0	900.0	900.0	1.9	1.9	89.99	89.99	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	89.99	89.99	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	89.99	89.99	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	89.99	89.99	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	89.99	89.99	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	89.99	89.99	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	89.99	89.99	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	89.99	89.99	0.0	16.8	16.8	9.8	6.97	2.412 CC	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-140.45	-140.45	0.0	16.8	17.8	10.4	7.39	2.407	
1,800.0	1,799.9	1,799.9	1,799.9	3.9	3.9	-147.27	-147.27	0.0	16.8	21.0	13.2	7.79	2.691	
1,900.0	1,899.7	1,899.7	1,899.7	4.1	4.2	-154.84	-154.84	0.0	16.8	26.7	18.5	8.19	3.261	
2,000.0	1,999.3	1,999.3	1,999.3	4.3	4.4	-161.14	-161.14	0.0	16.8	35.2	26.6	8.59	4.099	
2,100.0	2,098.6	2,098.6	2,098.6	4.5	4.6	-165.74	-165.74	0.0	16.8	46.3	37.3	8.99	5.149	
2,200.0	2,197.9	2,197.9	2,197.9	4.7	4.8	-168.67	-168.67	0.0	16.8	58.1	48.6	9.41	6.168	
2,300.0	2,297.1	2,297.1	2,297.1	4.9	5.1	-170.61	-170.61	0.0	16.8	69.9	60.1	9.84	7.108	
2,400.0	2,396.4	2,396.4	2,396.4	5.2	5.3	-171.98	-171.98	0.0	16.8	81.8	71.6	10.26	7.973	
2,500.0	2,495.7	2,495.7	2,495.7	5.5	5.5	-173.01	-173.01	0.0	16.8	93.8	83.1	10.69	8.769	
2,600.0	2,595.0	2,596.8	2,596.8	5.7	5.7	-173.35	-173.35	-1.2	16.6	104.9	93.8	11.10	9.447	
2,700.0	2,694.2	2,698.5	2,698.4	6.0	5.9	-172.66	-172.66	-5.1	16.0	114.1	102.7	11.49	9.936	
2,800.0	2,793.5	2,800.3	2,800.0	6.3	6.0	-171.16	-171.16	-11.6	14.9	121.6	109.7	11.88	10.234	
2,900.0	2,892.8	2,901.5	2,900.7	6.5	6.2	-168.99	-168.99	-20.6	13.4	127.5	115.2	12.29	10.375	
3,000.0	2,992.0	3,001.2	3,000.0	6.8	6.4	-166.86	-166.86	-30.1	11.9	133.2	120.5	12.70	10.485	
3,100.0	3,091.3	3,100.9	3,099.3	7.1	6.6	-164.90	-164.90	-39.5	10.4	139.0	125.9	13.13	10.592	
3,200.0	3,190.6	3,200.6	3,198.5	7.4	6.8	-163.10	-163.10	-48.9	8.9	145.0	131.5	13.56	10.694	
3,300.0	3,289.9	3,300.3	3,297.8	7.7	7.0	-161.45	-161.45	-58.3	7.3	151.2	137.2	14.01	10.792	
3,400.0	3,389.1	3,400.1	3,397.0	8.0	7.2	-159.93	-159.93	-67.7	5.8	157.4	143.0	14.47	10.884	
3,500.0	3,488.4	3,499.8	3,496.3	8.3	7.5	-158.53	-158.53	-77.1	4.3	163.8	148.9	14.93	10.971	
3,600.0	3,587.7	3,599.5	3,595.6	8.6	7.7	-157.20	-157.20	-86.6	2.7	170.0	154.6	15.41	11.031	
3,700.0	3,687.3	3,699.3	3,694.9	8.8	7.9	-155.68	-155.68	-96.0	1.2	174.2	158.3	15.88	10.965	
3,800.0	3,787.0	3,799.1	3,794.3	9.0	8.1	-153.85	-153.85	-105.4	-0.3	176.1	159.8	16.36	10.767	
3,900.0	3,886.9	3,898.9	3,893.6	9.2	8.4	-151.65	-151.65	-114.8	-1.9	176.0	159.1	16.83	10.454	
4,000.0	3,986.9	3,998.5	3,992.8	9.4	8.6	-149.00	-149.00	-124.3	-3.4	173.8	156.5	17.31	10.044	
4,100.0	4,086.9	4,098.1	4,091.9	9.6	8.9	81.59	81.59	-133.7	-4.9	170.7	152.9	17.79	9.594	
4,200.0	4,186.9	4,197.0	4,190.4	9.8	9.1	84.53	84.53	-142.6	-6.4	168.1	149.8	18.28	9.195	
4,300.0	4,286.9	4,295.8	4,288.9	10.0	9.3	86.78	86.78	-149.2	-7.5	166.5	147.8	18.76	8.878	
4,400.0	4,386.9	4,394.8	4,387.8	10.2	9.6	88.19	88.19	-153.4	-8.1	165.7	146.5	19.20	8.627	
4,500.0	4,486.9	4,494.0	4,487.0	10.4	9.8	88.74	88.74	-155.0	-8.4	165.3	145.7	19.62	8.428	
4,538.4	4,525.3	4,532.2	4,525.3	10.5	9.8	88.75	88.75	-155.0	-8.4	165.3	145.6	19.77	8.362	
4,600.0	4,586.9	4,593.9	4,586.9	10.6	10.0	88.75	88.75	-155.0	-8.4	165.3	145.3	20.02	8.258	
4,700.0	4,686.9	4,693.9	4,686.9	10.8	10.2	88.75	88.75	-155.0	-8.4	165.3	144.9	20.43	8.093	
4,800.0	4,786.9	4,793.9	4,786.9	11.0	10.4	88.75	88.75	-155.0	-8.4	165.3	144.5	20.84	7.933	
4,900.0	4,886.9	4,893.9	4,886.9	11.2	10.6	88.75	88.75	-155.0	-8.4	165.3	144.1	21.25	7.779	

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-30-7N
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-30-7N	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-30-8N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Reference Offset	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	4,986.9	4,993.9	4,986.9	11.4	10.8	88.75	88.75	-155.0	-8.4	165.3	143.7	21.67	7.631	
5,100.0	5,086.9	5,093.9	5,086.9	11.6	11.0	88.75	88.75	-155.0	-8.4	165.3	143.3	22.08	7.487	
5,200.0	5,186.9	5,193.9	5,186.9	11.8	11.2	88.75	88.75	-155.0	-8.4	165.3	142.8	22.50	7.348	
5,300.0	5,286.9	5,293.9	5,286.9	12.0	11.4	88.75	88.75	-155.0	-8.4	165.3	142.4	22.92	7.214	
5,400.0	5,386.9	5,393.9	5,386.9	12.2	11.6	88.75	88.75	-155.0	-8.4	165.3	142.0	23.34	7.085	
5,500.0	5,486.9	5,493.9	5,486.9	12.4	11.8	88.75	88.75	-155.0	-8.4	165.3	141.6	23.76	6.959	
5,600.0	5,586.9	5,593.9	5,586.9	12.6	12.0	88.75	88.75	-155.0	-8.4	165.3	141.2	24.18	6.838	
5,700.0	5,686.9	5,693.9	5,686.9	12.8	12.3	88.75	88.75	-155.0	-8.4	165.3	140.7	24.60	6.721	
5,800.0	5,786.9	5,793.9	5,786.9	13.0	12.5	88.75	88.75	-155.0	-8.4	165.3	140.3	25.03	6.607	
5,900.0	5,886.9	5,893.9	5,886.9	13.2	12.7	88.75	88.75	-155.0	-8.4	165.3	139.9	25.45	6.497	
6,000.0	5,986.9	5,993.9	5,986.9	13.4	12.9	88.75	88.75	-155.0	-8.4	165.3	139.5	25.88	6.390	
6,100.0	6,086.9	6,093.9	6,086.9	13.6	13.1	88.75	88.75	-155.0	-8.4	165.3	139.0	26.30	6.287	
6,200.0	6,186.9	6,193.9	6,186.9	13.8	13.3	88.75	88.75	-155.0	-8.4	165.3	138.6	26.73	6.186	
6,300.0	6,286.9	6,293.9	6,286.9	14.0	13.5	88.75	88.75	-155.0	-8.4	165.3	138.2	27.16	6.089	
6,400.0	6,386.9	6,393.9	6,386.9	14.2	13.8	88.75	88.75	-155.0	-8.4	165.3	137.8	27.58	5.994	
6,500.0	6,486.9	6,493.9	6,486.9	14.4	14.0	88.75	88.75	-155.0	-8.4	165.3	137.3	28.01	5.903	
6,564.5	6,551.4	6,558.3	6,551.4	14.6	14.1	88.75	88.75	-155.0	-8.4	165.3	137.1	28.29	5.845	
6,600.0	6,586.9	6,593.8	6,586.9	14.6	14.2	88.74	88.74	-155.0	-8.4	165.3	136.9	28.44	5.814	
6,700.0	6,686.9	6,692.5	6,685.1	14.9	14.4	86.10	86.10	-147.3	-8.4	165.7	136.9	28.81	5.752	
6,800.0	6,786.9	6,787.3	6,777.8	15.1	14.5	79.04	79.04	-127.3	-8.3	168.6	139.5	29.10	5.793	
6,900.0	6,886.1	6,879.0	6,864.1	15.2	14.6	71.74	71.74	-96.5	-8.2	174.4	145.1	29.27	5.958	
7,000.0	6,981.2	6,969.6	6,944.8	15.4	14.8	66.73	66.73	-55.5	-8.0	180.2	150.9	29.27	6.154	
7,100.0	7,068.8	7,059.5	7,019.1	15.5	14.9	63.88	63.88	-5.1	-7.8	184.2	155.0	29.13	6.323	
7,200.0	7,145.6	7,150.0	7,087.0	15.6	15.1	63.04	63.04	54.7	-7.5	185.4	156.4	29.01	6.393	
7,300.0	7,208.9	7,238.6	7,145.6	15.7	15.4	64.15	64.15	121.0	-7.3	183.7	154.5	29.21	6.290	
7,400.0	7,256.3	7,328.5	7,196.3	16.0	15.9	67.30	67.30	195.2	-7.0	179.4	149.4	30.04	5.974	
7,500.0	7,286.0	7,419.2	7,237.6	16.5	16.4	72.62	72.62	275.9	-6.6	173.5	141.9	31.61	5.489	
7,600.0	7,297.0	7,511.1	7,268.7	17.2	17.1	80.23	80.23	362.3	-6.3	167.9	134.1	33.75	4.974	
7,700.0	7,296.6	7,606.3	7,289.0	18.1	18.0	87.35	87.35	455.3	-5.9	165.5	129.5	35.91	4.607	
7,772.7	7,296.3	7,678.2	7,296.0	18.9	18.7	89.91	89.91	526.8	-5.6	165.3	127.8	37.46	4.412	
7,800.0	7,296.2	7,705.5	7,296.8	19.1	19.0	90.23	90.23	554.1	-5.5	165.3	127.2	38.05	4.344	
7,900.0	7,295.7	7,805.5	7,296.4	20.3	20.2	90.25	90.25	654.1	-5.1	165.3	124.9	40.38	4.093	
8,000.0	7,295.2	7,905.5	7,295.9	21.6	21.5	90.24	90.24	754.1	-4.7	165.3	122.4	42.92	3.851	
8,100.0	7,294.8	8,005.5	7,295.4	22.9	22.8	90.24	90.24	854.1	-4.3	165.3	119.6	45.65	3.621	
8,200.0	7,294.3	8,105.5	7,294.9	24.4	24.3	90.23	90.23	954.1	-3.8	165.3	116.8	48.52	3.406	
8,300.0	7,293.8	8,205.5	7,294.5	25.8	25.8	90.22	90.22	1,054.1	-3.4	165.3	113.8	51.52	3.208	
8,400.0	7,293.3	8,305.5	7,294.0	27.4	27.3	90.22	90.22	1,154.1	-3.0	165.3	110.7	54.62	3.026	
8,500.0	7,292.9	8,405.5	7,293.5	29.0	28.9	90.21	90.21	1,254.1	-2.6	165.3	107.5	57.81	2.859	
8,600.0	7,292.4	8,505.5	7,293.0	30.6	30.6	90.21	90.21	1,354.1	-2.2	165.3	104.2	61.07	2.706	
8,700.0	7,291.9	8,605.5	7,292.5	32.3	32.2	90.20	90.20	1,454.1	-1.8	165.3	100.9	64.39	2.567	
8,800.0	7,291.5	8,705.5	7,292.0	33.9	33.9	90.19	90.19	1,554.1	-1.4	165.3	97.5	67.77	2.439	
8,900.0	7,291.0	8,805.5	7,291.5	35.7	35.6	90.19	90.19	1,654.1	-1.0	165.3	94.1	71.19	2.321	
9,000.0	7,290.5	8,905.5	7,291.0	37.4	37.4	90.18	90.18	1,754.1	-0.6	165.3	90.6	74.66	2.214	
9,100.0	7,290.0	9,005.5	7,290.5	39.1	39.1	90.17	90.17	1,854.1	-0.2	165.3	87.1	78.15	2.115	
9,200.0	7,289.6	9,105.5	7,290.1	40.9	40.9	90.17	90.17	1,954.1	0.3	165.3	83.6	81.68	2.023	
9,300.0	7,289.1	9,205.5	7,289.6	42.7	42.6	90.16	90.16	2,054.1	0.7	165.3	80.0	85.23	1.939	
9,400.0	7,288.6	9,305.5	7,289.1	44.4	44.4	90.16	90.16	2,154.1	1.1	165.3	76.4	88.81	1.861	
9,500.0	7,288.2	9,405.5	7,288.6	46.2	46.2	90.15	90.15	2,254.1	1.5	165.3	72.9	92.40	1.788	
9,600.0	7,287.7	9,505.5	7,288.1	48.0	48.0	90.14	90.14	2,354.1	1.9	165.3	69.2	96.02	1.721	
9,700.0	7,287.2	9,605.5	7,287.6	49.9	49.8	90.14	90.14	2,454.1	2.3	165.2	65.6	99.65	1.658	
9,800.0	7,286.7	9,705.5	7,287.1	51.7	51.7	90.13	90.13	2,554.1	2.7	165.2	62.0	103.29	1.600	

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-30-7N
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-30-7N	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-30-8N - Wellbore #1 - Plan #1 (8												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	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	7,286.3	9,805.5	7,286.6	53.5	53.5	90.13	2,654.1	3.1	165.2	58.3	106.95	1.545	
10,000.0	7,285.8	9,905.5	7,286.2	55.3	55.3	90.12	2,754.1	3.5	165.2	54.6	110.61	1.494	Level 3
10,100.0	7,285.3	10,005.5	7,285.7	57.2	57.2	90.11	2,854.1	3.9	165.2	51.0	114.29	1.446	Level 3
10,200.0	7,284.9	10,105.5	7,285.2	59.0	59.0	90.11	2,954.1	4.3	165.2	47.3	117.98	1.401	Level 3
10,300.0	7,284.4	10,205.5	7,284.7	60.9	60.9	90.10	3,054.1	4.8	165.2	43.6	121.68	1.358	Level 3
10,400.0	7,283.9	10,305.5	7,284.2	62.7	62.7	90.10	3,154.1	5.2	165.2	39.9	125.38	1.318	Level 3
10,500.0	7,283.4	10,405.5	7,283.7	64.6	64.6	90.09	3,254.1	5.6	165.2	36.1	129.09	1.280	Level 3
10,600.0	7,283.0	10,505.5	7,283.2	66.4	66.4	90.08	3,354.1	6.0	165.2	32.4	132.81	1.244	Level 2
10,700.0	7,282.5	10,605.5	7,282.7	68.3	68.3	90.08	3,454.0	6.4	165.2	28.7	136.54	1.210	Level 2
10,800.0	7,282.0	10,705.5	7,282.2	70.1	70.2	90.07	3,554.0	6.8	165.2	25.0	140.27	1.178	Level 2
10,900.0	7,281.6	10,805.5	7,281.8	72.0	72.0	90.07	3,654.0	7.2	165.2	21.2	144.00	1.147	Level 2
11,000.0	7,281.1	10,905.5	7,281.3	73.9	73.9	90.06	3,754.0	7.6	165.2	17.5	147.74	1.118	Level 2
11,100.0	7,280.6	11,005.5	7,280.8	75.8	75.8	90.05	3,854.0	8.0	165.2	13.7	151.49	1.091	Level 2
11,200.0	7,280.1	11,105.5	7,280.3	77.6	77.6	90.05	3,954.0	8.4	165.2	10.0	155.23	1.064	Level 2
11,300.0	7,279.7	11,205.5	7,279.8	79.5	79.5	90.04	4,054.0	8.9	165.2	6.2	158.99	1.039	Level 2
11,400.0	7,279.2	11,305.5	7,279.3	81.4	81.4	90.04	4,154.0	9.3	165.2	2.5	162.74	1.015	Level 2
11,500.0	7,278.7	11,405.5	7,278.8	83.3	83.3	90.03	4,254.0	9.7	165.2	-1.3	166.50	0.992	Level 1
11,600.0	7,278.3	11,505.5	7,278.3	85.1	85.2	90.02	4,354.0	10.1	165.2	-5.0	170.26	0.970	Level 1
11,700.0	7,277.8	11,605.5	7,277.8	87.0	87.0	90.02	4,454.0	10.5	165.2	-8.8	174.03	0.949	Level 1
11,800.0	7,277.3	11,705.5	7,277.4	88.9	88.9	90.01	4,554.0	10.9	165.2	-12.6	177.80	0.929	Level 1
11,868.1	7,277.0	11,773.7	7,277.0	89.9	90.2	90.01	4,622.2	11.2	165.2	-14.9	180.12	0.917	Level 1, ES, SF

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.99	89.99	0.0	30.8	30.8				
100.0	100.0	100.0	100.0	0.1	0.1	89.99	89.99	0.0	30.8	30.8	30.6	0.22	137.080	
200.0	200.0	200.0	200.0	0.3	0.3	89.99	89.99	0.0	30.8	30.8	30.1	0.67	45.693	
300.0	300.0	300.0	300.0	0.6	0.6	89.99	89.99	0.0	30.8	30.8	29.7	1.12	27.416	
400.0	400.0	400.0	400.0	0.8	0.8	89.99	89.99	0.0	30.8	30.8	29.2	1.57	19.583	
500.0	500.0	500.0	500.0	1.0	1.0	89.99	89.99	0.0	30.8	30.8	28.8	2.02	15.231	
600.0	600.0	600.0	600.0	1.2	1.2	89.99	89.99	0.0	30.8	30.8	28.3	2.47	12.462	
700.0	700.0	700.0	700.0	1.5	1.5	89.99	89.99	0.0	30.8	30.8	27.9	2.92	10.545	
800.0	800.0	800.0	800.0	1.7	1.7	89.99	89.99	0.0	30.8	30.8	27.4	3.37	9.139	
900.0	900.0	900.0	900.0	1.9	1.9	89.99	89.99	0.0	30.8	30.8	27.0	3.82	8.064	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	89.99	89.99	0.0	30.8	30.8	26.5	4.27	7.215	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	89.99	89.99	0.0	30.8	30.8	26.1	4.72	6.528	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	89.99	89.99	0.0	30.8	30.8	25.6	5.17	5.960	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	89.99	89.99	0.0	30.8	30.8	25.2	5.62	5.483	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	89.99	89.99	0.0	30.8	30.8	24.7	6.07	5.077	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	89.99	89.99	0.0	30.8	30.8	24.3	6.52	4.727	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	89.99	89.99	0.0	30.8	30.8	23.8	6.97	4.422 CC, ES	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-139.19	-139.19	0.0	30.8	31.8	24.4	7.39	4.301	
1,800.0	1,799.9	1,799.9	1,799.9	3.9	3.9	-143.38	-143.38	0.0	30.8	34.9	27.1	7.79	4.473	
1,900.0	1,899.7	1,899.2	1,899.2	4.1	4.1	-147.26	-147.26	-1.0	31.6	40.9	32.7	8.17	5.010	
2,000.0	1,999.3	1,998.1	1,998.1	4.3	4.3	-148.95	-148.95	-4.0	34.1	50.5	42.0	8.52	5.930	
2,100.0	2,098.6	2,096.6	2,096.6	4.5	4.5	-149.10	-149.10	-8.9	38.1	63.4	54.5	8.89	7.134	
2,200.0	2,197.9	2,194.7	2,194.0	4.7	4.7	-147.75	-147.75	-15.8	43.7	78.0	68.7	9.29	8.392	
2,300.0	2,297.1	2,293.1	2,291.8	4.9	4.9	-145.75	-145.75	-24.2	50.5	93.5	83.8	9.70	9.636	
2,400.0	2,396.4	2,391.8	2,389.9	5.2	5.1	-144.24	-144.24	-32.8	57.5	109.2	99.1	10.13	10.779	
2,500.0	2,495.7	2,490.5	2,488.0	5.5	5.3	-143.11	-143.11	-41.4	64.5	125.0	114.4	10.57	11.820	
2,600.0	2,595.0	2,589.3	2,586.1	5.7	5.6	-142.24	-142.24	-50.0	71.5	140.8	129.8	11.03	12.767	
2,700.0	2,694.2	2,688.0	2,684.2	6.0	5.8	-141.54	-141.54	-58.6	78.5	156.6	145.1	11.49	13.630	
2,800.0	2,793.5	2,786.7	2,782.3	6.3	6.1	-140.97	-140.97	-67.2	85.4	172.5	160.5	11.96	14.418	
2,900.0	2,892.8	2,885.4	2,880.4	6.5	6.3	-140.50	-140.50	-75.8	92.4	188.3	175.9	12.44	15.136	
3,000.0	2,992.0	2,984.2	2,978.5	6.8	6.6	-140.10	-140.10	-84.4	99.4	204.2	191.3	12.93	15.794	
3,100.0	3,091.3	3,082.9	3,076.6	7.1	6.8	-139.75	-139.75	-93.0	106.4	220.1	206.6	13.42	16.397	
3,200.0	3,190.6	3,181.6	3,174.7	7.4	7.1	-139.46	-139.46	-101.5	113.4	236.0	222.0	13.92	16.950	
3,300.0	3,289.9	3,280.3	3,272.8	7.7	7.4	-139.20	-139.20	-110.1	120.3	251.8	237.4	14.42	17.460	
3,400.0	3,389.1	3,379.0	3,370.9	8.0	7.6	-138.97	-138.97	-118.7	127.3	267.7	252.8	14.93	17.930	
3,500.0	3,488.4	3,477.8	3,469.0	8.3	7.9	-138.77	-138.77	-127.3	134.3	283.6	268.2	15.45	18.364	
3,600.0	3,587.7	3,576.5	3,567.1	8.6	8.2	-138.62	-138.62	-135.9	141.3	299.3	283.4	15.96	18.753	
3,700.0	3,687.3	3,680.5	3,670.6	8.8	8.4	-138.44	-138.44	-144.0	147.8	312.6	296.1	16.44	19.014	
3,800.0	3,787.0	3,785.5	3,775.3	9.0	8.7	-138.32	-138.32	-149.9	152.6	322.2	305.3	16.89	19.072	
3,900.0	3,886.9	3,890.8	3,880.5	9.2	8.9	-138.25	-138.25	-153.5	155.6	328.2	310.9	17.33	18.942	
4,000.0	3,986.9	3,996.5	3,986.2	9.4	9.1	-138.23	-138.23	-155.0	156.8	330.5	312.8	17.73	18.637	
4,100.0	4,086.9	4,097.2	4,086.9	9.6	9.3	89.38	89.38	-155.0	156.8	330.5	312.4	18.12	18.238	
4,200.0	4,186.9	4,197.2	4,186.9	9.8	9.5	89.38	89.38	-155.0	156.8	330.5	312.0	18.52	17.846	
4,300.0	4,286.9	4,297.2	4,286.9	10.0	9.7	89.38	89.38	-155.0	156.8	330.5	311.6	18.92	17.468	
4,400.0	4,386.9	4,397.2	4,386.9	10.2	9.9	89.38	89.38	-155.0	156.8	330.5	311.2	19.33	17.104	
4,500.0	4,486.9	4,497.2	4,486.9	10.4	10.1	89.38	89.38	-155.0	156.8	330.5	310.8	19.73	16.753	
4,600.0	4,586.9	4,597.2	4,586.9	10.6	10.3	89.38	89.38	-155.0	156.8	330.5	310.4	20.14	16.414	
4,700.0	4,686.9	4,697.2	4,686.9	10.8	10.5	89.38	89.38	-155.0	156.8	330.5	310.0	20.55	16.088	
4,800.0	4,786.9	4,797.2	4,786.9	11.0	10.7	89.38	89.38	-155.0	156.8	330.5	309.6	20.96	15.773	
4,900.0	4,886.9	4,897.2	4,886.9	11.2	10.9	89.38	89.38	-155.0	156.8	330.5	309.2	21.37	15.469	
5,000.0	4,986.9	4,997.2	4,986.9	11.4	11.1	89.38	89.38	-155.0	156.8	330.5	308.7	21.78	15.175	

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-30-7N
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-30-7N	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
5,100.0	5,086.9	5,097.2	5,086.9	11.6	11.3	89.38	-155.0	156.8	330.5	308.3	22.20	14.892	
5,200.0	5,186.9	5,197.2	5,186.9	11.8	11.5	89.38	-155.0	156.8	330.5	307.9	22.61	14.618	
5,300.0	5,286.9	5,297.2	5,286.9	12.0	11.7	89.38	-155.0	156.8	330.5	307.5	23.03	14.353	
5,400.0	5,386.9	5,397.2	5,386.9	12.2	11.9	89.38	-155.0	156.8	330.5	307.1	23.45	14.097	
5,500.0	5,486.9	5,497.2	5,486.9	12.4	12.1	89.38	-155.0	156.8	330.5	306.7	23.87	13.849	
5,600.0	5,586.9	5,597.2	5,586.9	12.6	12.4	89.38	-155.0	156.8	330.5	306.2	24.29	13.609	
5,700.0	5,686.9	5,697.2	5,686.9	12.8	12.6	89.38	-155.0	156.8	330.5	305.8	24.71	13.376	
5,800.0	5,786.9	5,797.2	5,786.9	13.0	12.8	89.38	-155.0	156.8	330.5	305.4	25.13	13.151	
5,900.0	5,886.9	5,897.2	5,886.9	13.2	13.0	89.38	-155.0	156.8	330.5	305.0	25.56	12.933	
6,000.0	5,986.9	5,997.2	5,986.9	13.4	13.2	89.38	-155.0	156.8	330.5	304.5	25.98	12.722	
6,100.0	6,086.9	6,097.2	6,086.9	13.6	13.4	89.38	-155.0	156.8	330.5	304.1	26.41	12.517	
6,200.0	6,186.9	6,197.2	6,186.9	13.8	13.6	89.38	-155.0	156.8	330.5	303.7	26.83	12.318	
6,300.0	6,286.9	6,297.2	6,286.9	14.0	13.8	89.38	-155.0	156.8	330.5	303.3	27.26	12.126	
6,400.0	6,386.9	6,397.2	6,386.9	14.2	14.0	89.38	-155.0	156.8	330.5	302.8	27.69	11.938	
6,500.0	6,486.9	6,497.2	6,486.9	14.4	14.3	89.38	-155.0	156.8	330.5	302.4	28.11	11.756	
6,600.0	6,586.9	6,597.2	6,586.9	14.6	14.5	89.38	-155.0	156.8	330.5	302.0	28.54	11.580	
6,700.0	6,686.9	6,697.2	6,686.9	14.9	14.7	89.38	-155.0	156.8	330.5	301.6	28.97	11.408	
6,800.0	6,786.9	6,797.2	6,786.9	15.1	14.9	89.15	-155.0	156.8	330.5	301.1	29.40	11.241	
6,900.0	6,886.1	6,896.6	6,885.9	15.2	15.1	89.82	-147.2	156.8	330.5	300.7	29.77	11.102	
6,915.0	6,900.7	6,911.6	6,900.7	15.3	15.1	90.00	-144.9	156.9	330.5	300.7	29.81	11.086	
7,000.0	6,981.2	6,996.6	6,983.5	15.4	15.2	91.39	-125.7	156.9	330.6	300.5	30.05	11.003	
7,100.0	7,068.8	7,097.7	7,078.1	15.5	15.4	93.81	-90.3	157.1	331.2	301.0	30.27	10.944	
7,200.0	7,145.6	7,200.4	7,168.1	15.6	15.5	96.99	-41.2	157.3	333.1	302.6	30.48	10.928	
7,300.0	7,208.9	7,305.3	7,251.9	15.7	15.6	100.80	21.8	157.5	336.9	306.2	30.71	10.969	
7,400.0	7,256.3	7,413.2	7,327.5	16.0	15.8	105.07	98.6	157.9	343.4	312.4	30.99	11.080	
7,500.0	7,286.0	7,525.0	7,392.8	16.5	16.3	109.62	189.3	158.2	353.3	321.9	31.37	11.261	
7,600.0	7,297.0	7,642.0	7,445.1	17.2	17.0	114.26	293.8	158.7	367.0	335.1	31.94	11.491	
7,700.0	7,296.6	7,768.5	7,481.8	18.1	18.1	119.23	414.8	159.1	380.8	348.1	32.65	11.662	
7,800.0	7,296.2	7,905.2	7,496.8	19.1	19.4	121.26	550.4	159.7	386.6	352.4	34.25	11.289	
7,900.0	7,295.7	8,009.0	7,496.6	20.3	20.6	121.29	654.2	160.1	386.7	350.5	36.27	10.661	
8,000.0	7,295.2	8,109.0	7,496.2	21.6	21.8	121.30	754.2	160.5	386.8	348.3	38.46	10.058	
8,100.0	7,294.8	8,209.0	7,495.8	22.9	23.2	121.32	854.2	161.0	386.8	346.0	40.80	9.483	
8,200.0	7,294.3	8,309.0	7,495.5	24.4	24.6	121.33	954.2	161.4	386.9	343.6	43.27	8.942	
8,300.0	7,293.8	8,409.0	7,495.1	25.8	26.1	121.34	1,054.2	161.8	387.0	341.1	45.85	8.439	
8,400.0	7,293.3	8,509.0	7,494.7	27.4	27.6	121.36	1,154.2	162.2	387.0	338.5	48.53	7.974	
8,500.0	7,292.9	8,609.0	7,494.4	29.0	29.2	121.37	1,254.2	162.6	387.1	335.8	51.29	7.547	
8,600.0	7,292.4	8,709.0	7,494.0	30.6	30.8	121.38	1,354.1	163.0	387.1	333.0	54.11	7.154	
8,700.0	7,291.9	8,809.0	7,493.6	32.3	32.4	121.40	1,454.1	163.4	387.2	330.2	56.99	6.794	
8,800.0	7,291.5	8,909.0	7,493.3	33.9	34.1	121.41	1,554.1	163.8	387.2	327.3	59.92	6.463	
8,900.0	7,291.0	9,009.0	7,492.9	35.7	35.8	121.42	1,654.1	164.2	387.3	324.4	62.89	6.158	
9,000.0	7,290.5	9,109.0	7,492.5	37.4	37.5	121.44	1,754.1	164.6	387.3	321.4	65.89	5.878	
9,100.0	7,290.0	9,209.0	7,492.2	39.1	39.3	121.45	1,854.1	165.1	387.4	318.5	68.93	5.620	
9,200.0	7,289.6	9,309.0	7,491.8	40.9	41.0	121.46	1,954.1	165.5	387.4	315.4	71.99	5.382	
9,300.0	7,289.1	9,409.0	7,491.4	42.7	42.8	121.48	2,054.1	165.9	387.5	312.4	75.07	5.161	
9,400.0	7,288.6	9,509.0	7,491.1	44.4	44.6	121.49	2,154.1	166.3	387.5	309.4	78.18	4.957	
9,500.0	7,288.2	9,609.0	7,490.7	46.2	46.3	121.50	2,254.1	166.7	387.6	306.3	81.30	4.767	
9,600.0	7,287.7	9,709.0	7,490.3	48.0	48.1	121.52	2,354.1	167.1	387.6	303.2	84.45	4.591	
9,700.0	7,287.2	9,809.0	7,490.0	49.9	50.0	121.53	2,454.1	167.5	387.7	300.1	87.60	4.426	
9,800.0	7,286.7	9,909.0	7,489.6	51.7	51.8	121.54	2,554.1	167.9	387.8	297.0	90.77	4.272	
9,900.0	7,286.3	10,009.0	7,489.2	53.5	53.6	121.56	2,654.1	168.3	387.8	293.9	93.95	4.128	
10,000.0	7,285.8	10,109.0	7,488.9	55.3	55.4	121.57	2,754.1	168.8	387.9	290.7	97.13	3.993	

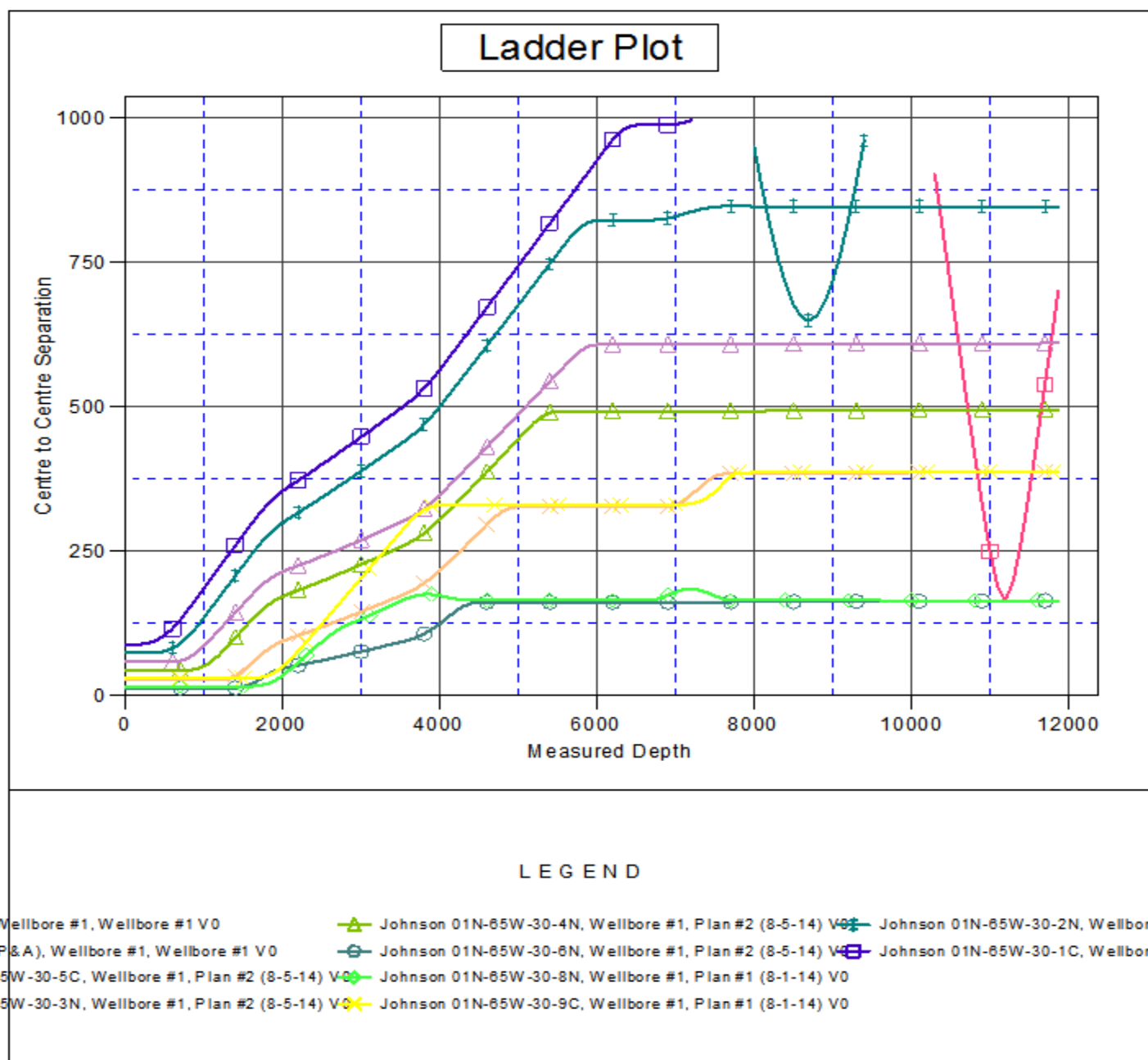
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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
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
10,100.0	7,285.3	10,209.0	7,488.5	57.2	57.3	121.58	2,854.1	169.2	387.9	287.6	100.33	3.866	
10,200.0	7,284.9	10,309.0	7,488.1	59.0	59.1	121.60	2,954.1	169.6	388.0	284.4	103.54	3.747	
10,300.0	7,284.4	10,409.0	7,487.8	60.9	60.9	121.61	3,054.1	170.0	388.0	281.3	106.75	3.635	
10,400.0	7,283.9	10,509.0	7,487.4	62.7	62.8	121.62	3,154.1	170.4	388.1	278.1	109.97	3.529	
10,500.0	7,283.4	10,609.0	7,487.0	64.6	64.6	121.64	3,254.1	170.8	388.1	274.9	113.20	3.429	
10,600.0	7,283.0	10,709.0	7,486.7	66.4	66.5	121.65	3,354.1	171.2	388.2	271.8	116.43	3.334	
10,700.0	7,282.5	10,809.0	7,486.3	68.3	68.4	121.66	3,454.1	171.6	388.2	268.6	119.66	3.244	
10,800.0	7,282.0	10,909.0	7,485.9	70.1	70.2	121.68	3,554.1	172.0	388.3	265.4	122.91	3.159	
10,900.0	7,281.6	11,009.0	7,485.6	72.0	72.1	121.69	3,654.1	172.4	388.4	262.2	126.15	3.078	
11,000.0	7,281.1	11,109.0	7,485.2	73.9	73.9	121.70	3,754.1	172.9	388.4	259.0	129.40	3.002	
11,100.0	7,280.6	11,209.0	7,484.8	75.8	75.8	121.72	3,854.1	173.3	388.5	255.8	132.65	2.928	
11,200.0	7,280.1	11,309.0	7,484.5	77.6	77.7	121.73	3,954.1	173.7	388.5	252.6	135.90	2.859	
11,300.0	7,279.7	11,409.0	7,484.1	79.5	79.6	121.74	4,054.1	174.1	388.6	249.4	139.16	2.792	
11,400.0	7,279.2	11,509.0	7,483.7	81.4	81.4	121.75	4,154.1	174.5	388.6	246.2	142.42	2.729	
11,500.0	7,278.7	11,609.0	7,483.4	83.3	83.3	121.77	4,254.1	174.9	388.7	243.0	145.69	2.668	
11,600.0	7,278.3	11,709.0	7,483.0	85.1	85.2	121.78	4,354.1	175.3	388.7	239.8	148.95	2.610	
11,700.0	7,277.8	11,809.0	7,482.6	87.0	87.1	121.79	4,454.1	175.7	388.8	236.6	152.22	2.554	
11,800.0	7,277.3	11,909.0	7,482.3	88.9	88.9	121.81	4,554.1	176.1	388.8	233.4	155.48	2.501	
11,868.1	7,277.0	11,977.1	7,482.0	89.9	90.2	121.82	4,622.2	176.4	388.9	231.4	157.48	2.469 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-7N
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-30-7N	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-30-7N
 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-30-7N
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-30-7N	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-30-7N
 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°

