

Verdad Oil & Gas Corporation

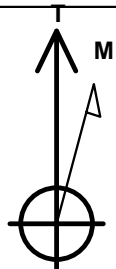
Well Name: **Johnson 01N-65W-30-6N**

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

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1249523.20	3221354.54	40.015620	-104.709690	
Original Well Elev WELL @ 5013.0ft (Original Well Elev)						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
460' Setback BHL	1.0	4615.6	-1275.6	Polygon
460' Setback SHL	1.0	251.4	-1275.6	Polygon
Sectionline	1.0	-208.6	-1275.6	Polygon
SHL 205'FSL & 1809'FWL	1.0	0.0	0.0	Point
Gilmore 1-30 300' Circle	23.0	3941.2	23.2	Circle (Radius: 300.0)
BHL 460'FNL & 1485'FWL	7278.0	4622.8	-305.3	Point

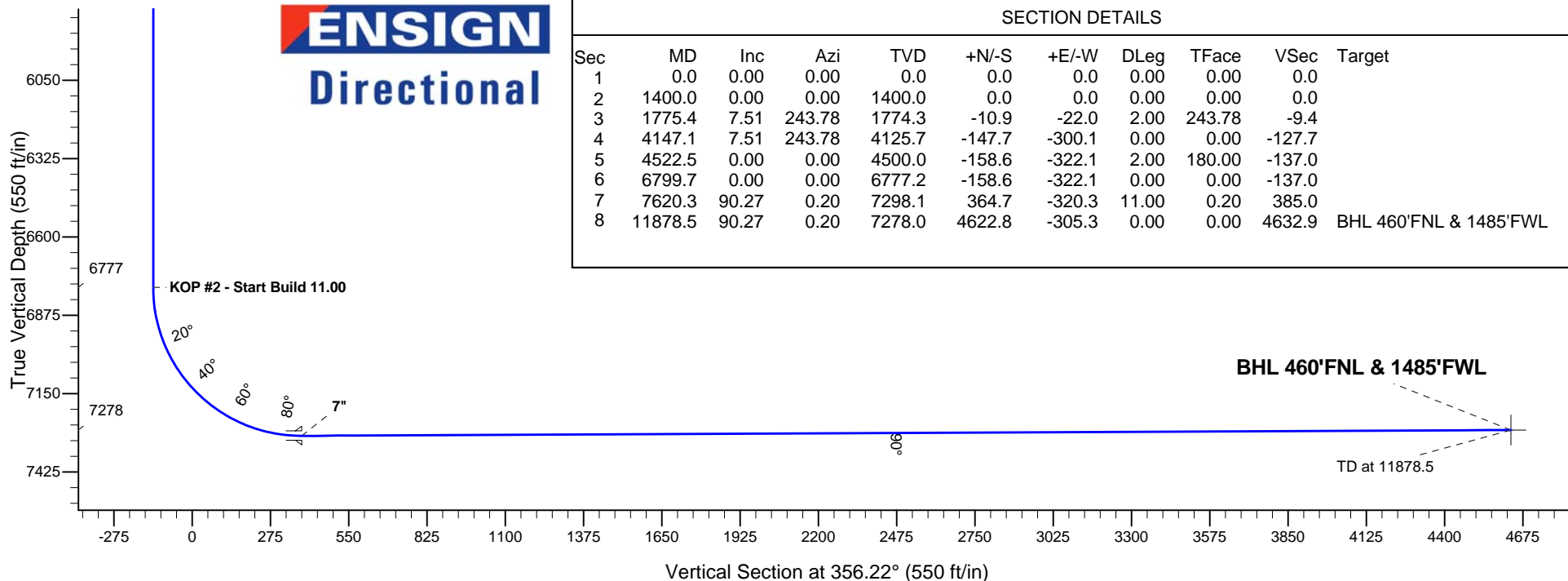
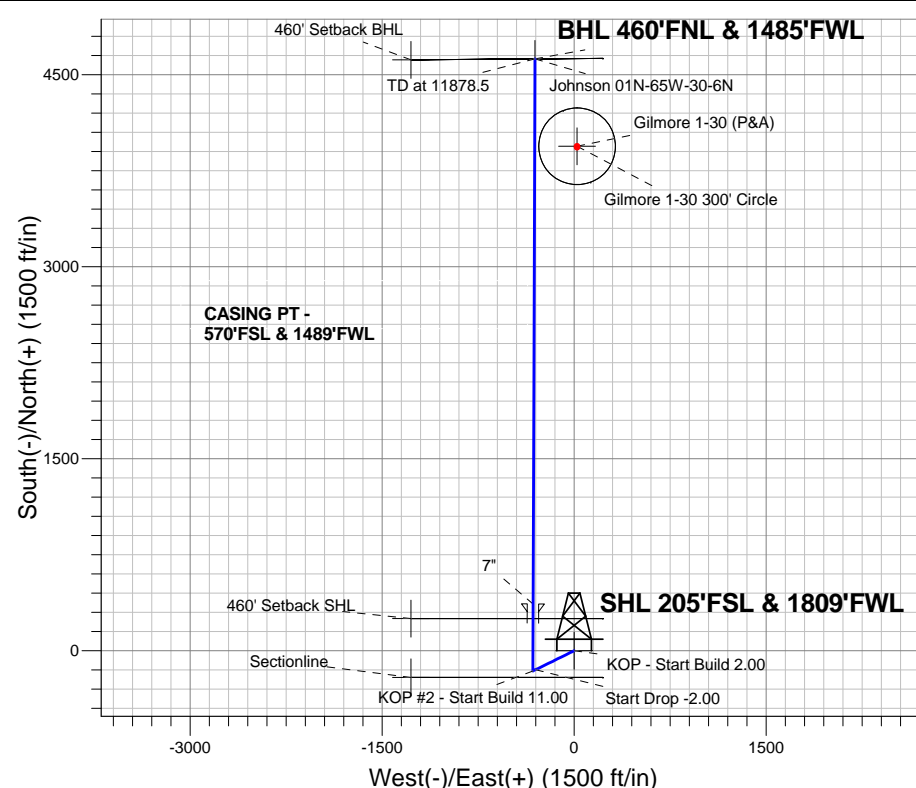


Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W
Johnson 01N-65W-30-6N
Plan #2 (8-5-14)

ANNOTATIONS

Azimuths to True North
Magnetic North: 8.38°
Magnetic Field
Strength: 52604.1nT
Dip Angle: 66.64°
Date: 8/1/2014
Model: IGRF2010

TVD	MD	Annotation
1400.0	1400.0	KOP - Start Build 2.00
4125.7	4147.1	Start Drop -2.00
6777.2	6799.7	KOP #2 - Start Build 11.00
7278.0	11878.5	TD at 11878.5





Verdad Oil & Gas Corporation

SEC.30-T1N-R65W

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

Johnson 01N-65W-30-6N

Wellbore #1

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

Standard Planning Report

05 August, 2014

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Project:	SEC.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	North Reference:	True
Well:	Johnson 01N-65W-30-6N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (8-5-14)		

Project	SEC.30-T1N-R65W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

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

Well	Johnson 01N-65W-30-6N		
Well Position	+N/-S	3.6 ft	Northing:
	+E/-W	75.6 ft	Easting:
Position Uncertainty		0.0 ft	Wellhead Elevation:
			ft
			Latitude:
			40.015620
			Longitude:
			-104.709690
			Ground Level:
			5,000.0ft

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	356.22

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	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,775.4	7.51	243.78	1,774.3	-10.9	-22.0	2.00	2.00	0.00	243.78	
4,147.1	7.51	243.78	4,125.7	-147.7	-300.1	0.00	0.00	0.00	0.00	
4,522.5	0.00	0.00	4,500.0	-158.6	-322.1	2.00	-2.00	0.00	180.00	
6,799.7	0.00	0.00	6,777.2	-158.6	-322.1	0.00	0.00	0.00	0.00	
7,620.3	90.27	0.20	7,298.1	364.7	-320.3	11.00	11.00	0.00	0.20	
11,878.5	90.27	0.20	7,278.0	4,622.8	-305.3	0.00	0.00	0.00	0.00	BHL 460'FNL & 14E

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Project:	SEC.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	North Reference:	True
Well:	Johnson 01N-65W-30-6N	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
KOP - Start Build 2.00									
1,500.0	2.00	243.78	1,500.0	-0.8	-1.6	-0.7	2.00	2.00	0.00
1,600.0	4.00	243.78	1,599.8	-3.1	-6.3	-2.7	2.00	2.00	0.00
1,700.0	6.00	243.78	1,699.5	-6.9	-14.1	-6.0	2.00	2.00	0.00
1,775.4	7.51	243.78	1,774.3	-10.9	-22.0	-9.4	2.00	2.00	0.00
1,800.0	7.51	243.78	1,798.7	-12.3	-24.9	-10.6	0.00	0.00	0.00
1,900.0	7.51	243.78	1,897.9	-18.0	-36.6	-15.6	0.00	0.00	0.00
2,000.0	7.51	243.78	1,997.0	-23.8	-48.4	-20.6	0.00	0.00	0.00
2,100.0	7.51	243.78	2,096.1	-29.6	-60.1	-25.6	0.00	0.00	0.00
2,200.0	7.51	243.78	2,195.3	-35.4	-71.8	-30.6	0.00	0.00	0.00
2,300.0	7.51	243.78	2,294.4	-41.1	-83.5	-35.5	0.00	0.00	0.00
2,400.0	7.51	243.78	2,393.6	-46.9	-95.3	-40.5	0.00	0.00	0.00
2,500.0	7.51	243.78	2,492.7	-52.7	-107.0	-45.5	0.00	0.00	0.00
2,600.0	7.51	243.78	2,591.9	-58.4	-118.7	-50.5	0.00	0.00	0.00
2,700.0	7.51	243.78	2,691.0	-64.2	-130.4	-55.5	0.00	0.00	0.00
2,800.0	7.51	243.78	2,790.1	-70.0	-142.1	-60.5	0.00	0.00	0.00
2,900.0	7.51	243.78	2,889.3	-75.8	-153.9	-65.5	0.00	0.00	0.00
3,000.0	7.51	243.78	2,988.4	-81.5	-165.6	-70.5	0.00	0.00	0.00
3,100.0	7.51	243.78	3,087.6	-87.3	-177.3	-75.4	0.00	0.00	0.00
3,200.0	7.51	243.78	3,186.7	-93.1	-189.0	-80.4	0.00	0.00	0.00
3,300.0	7.51	243.78	3,285.9	-98.9	-200.8	-85.4	0.00	0.00	0.00
3,400.0	7.51	243.78	3,385.0	-104.6	-212.5	-90.4	0.00	0.00	0.00
3,500.0	7.51	243.78	3,484.1	-110.4	-224.2	-95.4	0.00	0.00	0.00
3,600.0	7.51	243.78	3,583.3	-116.2	-235.9	-100.4	0.00	0.00	0.00
3,700.0	7.51	243.78	3,682.4	-121.9	-247.7	-105.4	0.00	0.00	0.00
3,800.0	7.51	243.78	3,781.6	-127.7	-259.4	-110.4	0.00	0.00	0.00
3,900.0	7.51	243.78	3,880.7	-133.5	-271.1	-115.3	0.00	0.00	0.00
4,000.0	7.51	243.78	3,979.9	-139.3	-282.8	-120.3	0.00	0.00	0.00
4,100.0	7.51	243.78	4,079.0	-145.0	-294.5	-125.3	0.00	0.00	0.00
4,147.1	7.51	243.78	4,125.7	-147.8	-300.1	-127.7	0.00	0.00	0.00
Start Drop -2.00									
4,200.0	6.45	243.78	4,178.2	-150.6	-305.8	-130.1	2.00	-2.00	0.00
4,300.0	4.45	243.78	4,277.7	-154.8	-314.4	-133.7	2.00	-2.00	0.00
4,400.0	2.45	243.78	4,377.6	-157.4	-319.8	-136.0	2.00	-2.00	0.00
4,500.0	0.45	243.78	4,477.5	-158.6	-322.0	-137.0	2.00	-2.00	0.00
4,522.5	0.00	0.00	4,500.0	-158.6	-322.1	-137.0	2.00	-2.00	0.00
4,600.0	0.00	0.00	4,577.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,677.5	-158.6	-322.1	-137.0	0.00	0.00	0.00

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Project:	SEC.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	North Reference:	True
Well:	Johnson 01N-65W-30-6N	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	4,777.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,877.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,977.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,077.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,177.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,277.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,377.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,477.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,577.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,677.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,777.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,877.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,977.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,077.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,177.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,277.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,377.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,477.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,577.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,677.5	-158.6	-322.1	-137.0	0.00	0.00	0.00
6,799.7	0.00	0.00	6,777.2	-158.6	-322.1	-137.0	0.00	0.00	0.00
KOP #2 - Start Build 11.00									
6,800.0	0.03	0.20	6,777.5	-158.6	-322.1	-137.0	11.66	11.66	0.00
6,900.0	11.03	0.20	6,876.9	-149.0	-322.1	-127.4	11.00	11.00	0.00
7,000.0	22.03	0.20	6,972.6	-120.6	-322.0	-99.1	11.00	11.00	0.00
7,100.0	33.03	0.20	7,061.2	-74.4	-321.8	-53.0	11.00	11.00	0.00
7,200.0	44.03	0.20	7,139.3	-12.2	-321.6	9.0	11.00	11.00	0.00
7,300.0	55.03	0.20	7,204.1	63.8	-321.3	84.8	11.00	11.00	0.00
7,400.0	66.03	0.20	7,253.2	150.7	-321.0	171.5	11.00	11.00	0.00
7,500.0	77.03	0.20	7,284.8	245.4	-320.7	266.0	11.00	11.00	0.00
7,600.0	88.03	0.20	7,297.8	344.4	-320.3	364.8	11.00	11.00	0.00
7,620.3	90.27	0.20	7,298.1	364.7	-320.3	385.0	11.00	11.00	0.00
7"									
7,700.0	90.27	0.20	7,297.7	444.4	-320.0	464.5	0.00	0.00	0.00
7,800.0	90.27	0.20	7,297.2	544.4	-319.6	564.3	0.00	0.00	0.00
7,900.0	90.27	0.20	7,296.7	644.4	-319.3	664.0	0.00	0.00	0.00
8,000.0	90.27	0.20	7,296.3	744.4	-318.9	763.8	0.00	0.00	0.00
8,100.0	90.27	0.20	7,295.8	844.4	-318.6	863.5	0.00	0.00	0.00
8,200.0	90.27	0.20	7,295.3	944.4	-318.2	963.3	0.00	0.00	0.00
8,300.0	90.27	0.20	7,294.9	1,044.4	-317.9	1,063.1	0.00	0.00	0.00
8,400.0	90.27	0.20	7,294.4	1,144.4	-317.5	1,162.8	0.00	0.00	0.00
8,500.0	90.27	0.20	7,293.9	1,244.4	-317.2	1,262.6	0.00	0.00	0.00
8,600.0	90.27	0.20	7,293.4	1,344.4	-316.8	1,362.3	0.00	0.00	0.00
8,700.0	90.27	0.20	7,293.0	1,444.4	-316.5	1,462.1	0.00	0.00	0.00
8,800.0	90.27	0.20	7,292.5	1,544.4	-316.1	1,561.9	0.00	0.00	0.00
8,900.0	90.27	0.20	7,292.0	1,644.4	-315.7	1,661.6	0.00	0.00	0.00
9,000.0	90.27	0.20	7,291.6	1,744.4	-315.4	1,761.4	0.00	0.00	0.00
9,100.0	90.27	0.20	7,291.1	1,844.4	-315.0	1,861.1	0.00	0.00	0.00
9,200.0	90.27	0.20	7,290.6	1,944.4	-314.7	1,960.9	0.00	0.00	0.00
9,300.0	90.27	0.20	7,290.2	2,044.4	-314.3	2,060.6	0.00	0.00	0.00
9,400.0	90.27	0.20	7,289.7	2,144.4	-314.0	2,160.4	0.00	0.00	0.00
9,500.0	90.27	0.20	7,289.2	2,244.4	-313.6	2,260.2	0.00	0.00	0.00
9,600.0	90.27	0.20	7,288.7	2,344.4	-313.3	2,359.9	0.00	0.00	0.00

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Project:	SEC.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	North Reference:	True
Well:	Johnson 01N-65W-30-6N	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	0.20	7,288.3	2,444.4	-312.9	2,459.7	0.00	0.00	0.00
9,800.0	90.27	0.20	7,287.8	2,544.4	-312.6	2,559.4	0.00	0.00	0.00
9,900.0	90.27	0.20	7,287.3	2,644.4	-312.2	2,659.2	0.00	0.00	0.00
10,000.0	90.27	0.20	7,286.9	2,744.4	-311.9	2,758.9	0.00	0.00	0.00
10,100.0	90.27	0.20	7,286.4	2,844.4	-311.5	2,858.7	0.00	0.00	0.00
10,200.0	90.27	0.20	7,285.9	2,944.4	-311.2	2,958.5	0.00	0.00	0.00
10,300.0	90.27	0.20	7,285.4	3,044.4	-310.8	3,058.2	0.00	0.00	0.00
10,400.0	90.27	0.20	7,285.0	3,144.4	-310.5	3,158.0	0.00	0.00	0.00
10,500.0	90.27	0.20	7,284.5	3,244.4	-310.1	3,257.7	0.00	0.00	0.00
10,600.0	90.27	0.20	7,284.0	3,344.4	-309.8	3,357.5	0.00	0.00	0.00
10,700.0	90.27	0.20	7,283.6	3,444.3	-309.4	3,457.3	0.00	0.00	0.00
10,800.0	90.27	0.20	7,283.1	3,544.3	-309.1	3,557.0	0.00	0.00	0.00
10,900.0	90.27	0.20	7,282.6	3,644.3	-308.7	3,656.8	0.00	0.00	0.00
11,000.0	90.27	0.20	7,282.1	3,744.3	-308.3	3,756.5	0.00	0.00	0.00
11,100.0	90.27	0.20	7,281.7	3,844.3	-308.0	3,856.3	0.00	0.00	0.00
11,200.0	90.27	0.20	7,281.2	3,944.3	-307.6	3,956.0	0.00	0.00	0.00
11,300.0	90.27	0.20	7,280.7	4,044.3	-307.3	4,055.8	0.00	0.00	0.00
11,400.0	90.27	0.20	7,280.3	4,144.3	-306.9	4,155.6	0.00	0.00	0.00
11,500.0	90.27	0.20	7,279.8	4,244.3	-306.6	4,255.3	0.00	0.00	0.00
11,600.0	90.27	0.20	7,279.3	4,344.3	-306.2	4,355.1	0.00	0.00	0.00
11,700.0	90.27	0.20	7,278.8	4,444.3	-305.9	4,454.8	0.00	0.00	0.00
11,800.0	90.27	0.20	7,278.4	4,544.3	-305.5	4,554.6	0.00	0.00	0.00
11,878.5	90.27	0.20	7,278.0	4,622.8	-305.3	4,632.9	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,620.3	7,298.1	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
1,400.0	1,400.0	0.0	0.0	KOP - Start Build 2.00
4,147.1	4,125.7	-10.9	-22.0	Start Drop -2.00
6,799.7	6,777.2	-147.7	-300.1	KOP #2 - Start Build 11.00
11,878.5	7,278.0	-158.6	-322.1	TD at 11878.5



Verdad Oil & Gas Corporation

SEC.30-T1N-R65W

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

Johnson 01N-65W-30-6N

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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	11,878.5	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	11,198.1	7,259.2	330.9	108.3	1.487	Level 3, CC
Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1	11,200.0	7,259.2	330.9	108.3	1.487	Level 3, ES, SF
Lehl 1 (P&A) - Wellbore #1 - Wellbore #1	8,703.4	7,287.0	486.6	308.7	2.736	CC, ES, SF
Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W						
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	200.0	200.0	75.7	75.0	112.287	CC, ES
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	11,879.2	12,150.9	848.5	673.3	4.844	SF
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	400.0	400.0	61.7	60.2	39.234	CC, ES
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	11,879.2	11,732.0	687.9	512.9	3.930	SF
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14)	600.0	600.0	45.0	42.5	18.186	CC, ES
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14)	11,879.2	11,905.5	445.7	265.1	2.469	SF
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8-5-14)	800.0	800.0	30.8	27.4	9.139	CC, ES
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8-5-14)	11,879.2	11,899.4	330.5	150.1	1.832	SF
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #2 (8-5-14)	1,200.0	1,200.0	14.0	8.8	2.709	CC, ES
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #2 (8-5-14)	11,879.2	12,088.1	263.3	139.0	2.118	SF
Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8-1-14)	1,400.0	1,399.0	14.0	7.9	2.309	CC
Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8-1-14)	11,879.2	11,784.1	165.2	-15.1	0.916	Level 1, ES, SF
Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8-1-14)	1,400.0	1,399.0	30.8	24.7	5.079	CC, ES
Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8-1-14)	11,879.2	11,773.7	330.4	150.1	1.832	SF
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14)	1,400.0	1,399.0	44.8	38.7	7.388	CC, ES
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14)	11,879.2	11,977.2	536.4	367.3	3.173	SF

Offset Design Existing Wells Sec.30-T1N-R65W - Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1											
Survey Program: 8208-UNKNOWN											
Reference Offset Semi Major Axis											
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)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)
10,300.0	7,285.4	7,263.4	7,263.4	60.8	145.3	90.73	3,941.2	23.2	957.1	751.2	205.90
10,400.0	7,285.0	7,263.0	7,263.0	62.7	145.3	90.65	3,941.2	23.2	863.9	656.2	207.75
10,500.0	7,284.5	7,262.5	7,262.5	64.5	145.2	90.57	3,941.2	23.2	772.5	562.9	209.59
10,600.0	7,284.0	7,262.0	7,262.0	66.4	145.2	90.49	3,941.2	23.2	683.5	472.0	211.44
10,700.0	7,283.6	7,261.6	7,261.6	68.2	145.2	90.41	3,941.2	23.2	597.9	384.7	213.30
10,800.0	7,283.1	7,261.1	7,261.1	70.1	145.2	90.32	3,941.2	23.2	517.6	302.5	215.15
											4.648
											4.159
											3.686
											3.232
											2.803
											2.406

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
10,900.0	7,282.6	7,260.6	7,260.6	71.9	145.2	90.24	3,941.2	23.2	445.3	228.3	217.01	2.052	
11,000.0	7,282.1	7,260.1	7,260.1	73.8	145.2	90.16	3,941.2	23.2	385.6	166.8	218.87	1.762	
11,100.0	7,281.7	7,259.7	7,259.7	75.7	145.2	90.08	3,941.2	23.2	345.1	124.4	220.73	1.564	
11,198.1	7,281.2	7,259.2	7,259.2	77.5	145.2	90.00	3,941.2	23.2	330.9	108.3	222.56	1.487	Level 3, CC
11,200.0	7,281.2	7,259.2	7,259.2	77.5	145.2	90.00	3,941.2	23.2	330.9	108.3	222.59	1.487	Level 3, ES, SF
11,300.0	7,280.7	7,258.7	7,258.7	79.4	145.2	89.92	3,941.2	23.2	346.2	121.8	224.46	1.543	
11,400.0	7,280.3	7,258.3	7,258.3	81.3	145.2	89.84	3,941.2	23.2	387.7	161.3	226.32	1.713	
11,500.0	7,279.8	7,257.8	7,257.8	83.2	145.2	89.75	3,941.2	23.2	448.0	219.8	228.19	1.963	
11,600.0	7,279.3	7,257.3	7,257.3	85.0	145.1	89.67	3,941.2	23.2	520.6	290.6	230.06	2.263	
11,700.0	7,278.8	7,256.8	7,256.8	86.9	145.1	89.59	3,941.2	23.2	601.2	369.3	231.93	2.592	
11,800.0	7,278.4	7,256.4	7,256.4	88.8	145.1	89.51	3,941.2	23.2	686.9	453.1	233.80	2.938	
11,879.2	7,278.0	7,256.0	7,256.0	90.3	145.1	89.44	3,941.2	23.2	757.3	522.0	235.28	3.219	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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
7,900.0	7,296.7	7,290.7	7,290.7	20.6	145.8	-90.45	1,449.5	-803.0	939.3	773.3	165.93	5.660	
8,000.0	7,296.3	7,290.3	7,290.3	21.8	145.8	-90.39	1,449.5	-803.0	855.3	688.1	167.18	5.116	
8,100.0	7,295.8	7,289.8	7,289.8	23.1	145.8	-90.33	1,449.5	-803.0	775.1	606.6	168.52	4.600	
8,200.0	7,295.3	7,289.3	7,289.3	24.5	145.8	-90.28	1,449.5	-803.0	700.1	530.2	169.93	4.120	
8,300.0	7,294.9	7,288.9	7,288.9	26.0	145.8	-90.22	1,449.5	-803.0	632.0	460.6	171.41	3.687	
8,400.0	7,294.4	7,288.4	7,288.4	27.5	145.8	-90.17	1,449.5	-803.0	573.4	400.5	172.95	3.316	
8,500.0	7,293.9	7,287.9	7,287.9	29.1	145.8	-90.11	1,449.5	-803.0	527.4	352.8	174.52	3.022	
8,600.0	7,293.4	7,287.4	7,287.4	30.7	145.7	-90.06	1,449.5	-803.0	497.4	321.3	176.14	2.824	
8,700.0	7,293.0	7,287.0	7,287.0	32.4	145.7	-90.00	1,449.5	-803.0	486.6	308.8	177.78	2.737	
8,703.4	7,293.0	7,287.0	7,287.0	32.4	145.7	-90.00	1,449.5	-803.0	486.6	308.7	177.84	2.736 CC, ES, SF	
8,800.0	7,292.5	7,286.5	7,286.5	34.0	145.7	-89.95	1,449.5	-803.0	496.1	316.6	179.46	2.764	
8,900.0	7,292.0	7,286.0	7,286.0	35.7	145.7	-89.89	1,449.5	-803.0	524.8	343.6	181.16	2.897	
9,000.0	7,291.6	7,285.6	7,285.6	37.4	145.7	-89.84	1,449.5	-803.0	569.8	387.0	182.87	3.116	
9,100.0	7,291.1	7,285.1	7,285.1	39.2	145.7	-89.78	1,449.5	-803.0	627.7	443.1	184.61	3.400	
9,200.0	7,290.6	7,284.6	7,284.6	40.9	145.7	-89.72	1,449.5	-803.0	695.2	508.9	186.36	3.731	
9,300.0	7,290.2	7,284.2	7,284.2	42.7	145.7	-89.67	1,449.5	-803.0	769.8	581.7	188.12	4.092	
9,400.0	7,289.7	7,283.7	7,283.7	44.5	145.7	-89.61	1,449.5	-803.0	849.7	659.8	189.90	4.474	
9,500.0	7,289.2	7,283.2	7,283.2	46.2	145.7	-89.56	1,449.5	-803.0	933.4	741.7	191.68	4.870	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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	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	-92.76	-92.76	-3.6	-75.6	75.7				
100.0	100.0	100.0	100.0	0.1	0.1	-92.76	-92.76	-3.6	-75.6	75.7	75.5	0.22	336.860	
200.0	200.0	200.0	200.0	0.3	0.3	-92.76	-92.76	-3.6	-75.6	75.7	75.0	0.67	112.287 CC, ES	
300.0	300.0	297.4	297.4	0.6	0.5	-92.88	-92.88	-3.9	-77.3	77.4	76.3	1.11	69.937	
400.0	400.0	394.6	394.4	0.8	0.8	-93.21	-93.21	-4.6	-82.2	82.5	80.9	1.55	53.349	
500.0	500.0	491.3	490.8	1.0	1.0	-93.68	-93.68	-5.8	-90.3	90.9	88.9	2.01	45.309	
600.0	600.0	587.4	586.2	1.2	1.3	-94.21	-94.21	-7.5	-101.5	102.7	100.2	2.49	41.194	
700.0	700.0	682.6	680.3	1.5	1.6	-94.73	-94.73	-9.6	-115.7	117.8	114.8	3.01	39.118	
800.0	800.0	778.8	774.9	1.7	1.9	-95.21	-95.21	-12.1	-132.9	135.8	132.2	3.57	38.077	
900.0	900.0	877.1	871.5	1.9	2.3	-95.59	-95.59	-14.8	-150.9	154.3	150.1	4.14	37.220	
1,000.0	1,000.0	975.4	968.1	2.1	2.7	-95.89	-95.89	-17.4	-168.9	172.7	168.0	4.73	36.506	
1,100.0	1,100.0	1,073.6	1,064.7	2.4	3.1	-96.14	-96.14	-20.1	-186.8	191.2	185.9	5.32	35.910	
1,200.0	1,200.0	1,171.9	1,161.3	2.6	3.5	-96.34	-96.34	-22.7	-204.8	209.7	203.7	5.92	35.408	
1,300.0	1,300.0	1,270.2	1,257.9	2.8	3.9	-96.50	-96.50	-25.4	-222.8	228.1	221.6	6.52	34.983	
1,400.0	1,400.0	1,368.5	1,354.4	3.0	4.4	-96.65	-96.65	-28.1	-240.7	246.6	239.5	7.12	34.620	
1,500.0	1,500.0	1,467.0	1,451.3	3.2	4.8	19.46	19.46	-30.7	-258.8	263.5	256.8	6.62	39.775	
1,600.0	1,599.8	1,566.1	1,548.7	3.4	5.2	19.62	19.62	-33.4	-276.9	277.1	270.0	7.06	39.230	
1,700.0	1,699.5	1,665.5	1,646.4	3.6	5.6	20.01	20.01	-36.1	-295.0	287.4	279.9	7.51	38.287	
1,800.0	1,798.7	1,765.2	1,744.3	3.9	6.0	20.63	20.63	-38.8	-313.3	294.6	286.7	7.96	37.012	
1,900.0	1,897.9	1,864.9	1,842.3	4.1	6.4	21.33	21.33	-41.5	-331.5	301.0	292.5	8.43	35.698	
2,000.0	1,997.0	1,964.7	1,940.4	4.3	6.9	22.00	22.00	-44.2	-349.7	307.3	298.4	8.91	34.496	
2,100.0	2,096.1	2,064.4	2,038.4	4.6	7.3	22.64	22.64	-46.9	-368.0	313.7	304.4	9.40	33.394	
2,200.0	2,195.3	2,164.1	2,136.4	4.9	7.7	23.25	23.25	-49.6	-386.2	320.2	310.3	9.89	32.382	
2,300.0	2,294.4	2,263.9	2,234.4	5.2	8.1	23.85	23.85	-52.3	-404.5	326.7	316.3	10.39	31.449	
2,400.0	2,393.6	2,363.6	2,332.4	5.5	8.5	24.41	24.41	-55.0	-422.7	333.2	322.3	10.89	30.588	
2,500.0	2,492.7	2,463.3	2,430.4	5.7	9.0	24.96	24.96	-57.6	-440.9	339.7	328.3	11.40	29.792	
2,600.0	2,591.9	2,563.1	2,528.5	6.0	9.4	25.49	25.49	-60.3	-459.2	346.3	334.4	11.92	29.054	
2,700.0	2,691.0	2,662.8	2,626.5	6.4	9.8	25.99	25.99	-63.0	-477.4	352.9	340.5	12.44	28.368	
2,800.0	2,790.1	2,762.5	2,724.5	6.7	10.2	26.48	26.48	-65.7	-495.6	359.6	346.6	12.97	27.729	
2,900.0	2,889.3	2,862.3	2,822.5	7.0	10.6	26.95	26.95	-68.4	-513.9	366.2	352.7	13.50	27.134	
3,000.0	2,988.4	2,962.0	2,920.5	7.3	11.1	27.40	27.40	-71.1	-532.1	372.9	358.9	14.03	26.577	
3,100.0	3,087.6	3,061.7	3,018.5	7.6	11.5	27.84	27.84	-73.8	-550.4	379.6	365.0	14.57	26.056	
3,200.0	3,186.7	3,161.5	3,116.5	7.9	11.9	28.26	28.26	-76.5	-568.6	386.3	371.2	15.11	25.568	
3,300.0	3,285.9	3,261.2	3,214.6	8.2	12.3	28.67	28.67	-79.2	-586.8	393.1	377.4	15.66	25.109	
3,400.0	3,385.0	3,360.9	3,312.6	8.5	12.8	29.06	29.06	-81.9	-605.1	399.8	383.6	16.20	24.677	
3,500.0	3,484.1	3,460.7	3,410.6	8.9	13.2	29.45	29.45	-84.6	-623.3	406.6	389.9	16.75	24.270	
3,600.0	3,583.3	3,560.4	3,508.6	9.2	13.6	29.81	29.81	-87.3	-641.5	413.4	396.1	17.31	23.887	
3,700.0	3,682.4	3,660.1	3,606.6	9.5	14.0	30.17	30.17	-90.0	-659.8	420.2	402.4	17.86	23.524	
3,800.0	3,781.6	3,759.9	3,704.6	9.8	14.4	30.51	30.51	-92.7	-678.0	427.1	408.7	18.42	23.181	
3,900.0	3,880.7	3,859.6	3,802.7	10.2	14.9	30.85	30.85	-95.4	-696.2	433.9	414.9	18.99	22.855	
4,000.0	3,979.9	3,959.3	3,900.7	10.5	15.3	31.17	31.17	-98.1	-714.5	440.8	421.2	19.55	22.547	
4,100.0	4,079.0	4,059.1	3,998.7	10.8	15.7	31.49	31.49	-100.8	-732.7	447.7	427.6	20.12	22.254	
4,200.0	4,178.2	4,158.8	4,096.7	11.1	16.1	31.80	31.80	-103.5	-751.0	455.0	434.3	20.66	22.018	
4,300.0	4,277.7	4,258.3	4,194.5	11.3	16.6	31.97	31.97	-106.2	-769.1	464.9	443.8	21.13	21.999	
4,400.0	4,377.6	4,357.4	4,291.9	11.5	17.0	31.94	31.94	-108.9	-787.3	477.8	456.2	21.56	22.164	
4,500.0	4,477.5	4,456.1	4,388.9	11.7	17.4	31.73	31.73	-111.5	-805.3	493.6	471.7	21.93	22.504	
4,600.0	4,577.5	4,554.4	4,485.5	11.9	17.8	-84.93	-84.93	-114.2	-823.3	511.5	489.2	22.31	22.931	
4,700.0	4,677.5	4,652.7	4,582.1	12.1	18.2	-85.40	-85.40	-116.8	-841.3	529.5	506.8	22.71	23.312	
4,800.0	4,777.5	4,751.0	4,678.7	12.2	18.6	-85.84	-85.84	-119.5	-859.2	547.6	524.4	23.13	23.676	
4,900.0	4,877.5	4,849.2	4,775.2	12.4	19.1	-86.24	-86.24	-122.1	-877.2	565.6	542.1	23.54	24.025	
5,000.0	4,977.5	4,947.5	4,871.8	12.6	19.5	-86.62	-86.62	-124.8	-895.2	583.7	559.8	23.96	24.359	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	5,077.5	5,045.8	4,968.4	12.8	19.9	-86.98		-127.5	-913.1	601.8	577.5	24.39	24.679	
5,200.0	5,177.5	5,144.1	5,065.0	12.9	20.3	-87.32		-130.1	-931.1	620.0	595.2	24.81	24.986	
5,300.0	5,277.5	5,242.3	5,161.6	13.1	20.7	-87.64		-132.8	-949.1	638.1	612.9	25.24	25.281	
5,400.0	5,377.5	5,340.6	5,258.2	13.3	21.1	-87.94		-135.4	-967.1	656.3	630.6	25.67	25.564	
5,500.0	5,477.5	5,438.9	5,354.7	13.5	21.6	-88.23		-138.1	-985.0	674.5	648.4	26.11	25.836	
5,600.0	5,577.5	5,537.2	5,451.3	13.7	22.0	-88.50		-140.7	-1,003.0	692.7	666.2	26.54	26.098	
5,700.0	5,677.5	5,635.5	5,547.9	13.9	22.4	-88.75		-143.4	-1,021.0	711.0	684.0	26.98	26.350	
5,800.0	5,777.5	5,733.7	5,644.5	14.0	22.8	-89.00		-146.1	-1,038.9	729.2	701.8	27.42	26.592	
5,900.0	5,877.5	5,832.0	5,741.1	14.2	23.2	-89.23		-148.7	-1,056.9	747.4	719.6	27.86	26.825	
6,000.0	5,977.5	5,930.3	5,837.7	14.4	23.6	-89.45		-151.4	-1,074.9	765.7	737.4	28.31	27.050	
6,100.0	6,077.5	6,028.6	5,934.2	14.6	24.1	-89.66		-154.0	-1,092.9	784.0	755.2	28.75	27.267	
6,200.0	6,177.5	6,150.3	6,054.1	14.8	24.5	-89.89		-157.1	-1,113.9	801.4	772.1	29.21	27.431	
6,300.0	6,277.5	6,287.8	6,190.4	15.0	24.8	-90.08		-159.8	-1,131.8	814.4	784.7	29.67	27.452	
6,400.0	6,377.5	6,426.8	6,328.9	15.2	25.1	-90.20		-161.5	-1,143.4	822.7	792.6	30.11	27.327	
6,500.0	6,477.5	6,566.6	6,468.5	15.4	25.3	-90.25		-162.2	-1,148.3	826.2	795.7	30.54	27.052	
6,600.0	6,577.5	6,675.5	6,577.5	15.6	25.4	-90.25		-162.2	-1,148.4	826.3	795.4	30.93	26.715	
6,700.0	6,677.5	6,775.5	6,677.5	15.8	25.5	-90.25		-162.2	-1,148.4	826.3	795.0	31.31	26.393	
6,766.6	6,744.1	6,842.1	6,744.1	15.9	25.6	-90.46		-162.2	-1,148.4	826.3	794.8	31.58	26.168	
6,800.0	6,777.5	6,875.5	6,777.5	16.0	25.6	-90.45		-162.2	-1,148.4	826.3	794.6	31.70	26.063	
6,900.0	6,876.9	6,974.9	6,876.9	16.1	25.8	-91.10		-162.2	-1,148.4	826.5	794.5	31.99	25.834	
7,000.0	6,972.6	7,070.6	6,972.6	16.3	25.9	-92.86		-162.2	-1,148.4	827.5	795.4	32.12	25.759	
7,100.0	7,061.2	7,175.8	7,077.1	16.4	26.0	-95.30		-152.5	-1,148.4	830.4	798.2	32.19	25.801	
7,200.0	7,139.3	7,291.6	7,187.4	16.4	26.1	-97.69		-117.8	-1,148.2	834.8	802.5	32.25	25.881	
7,300.0	7,204.1	7,419.8	7,297.1	16.5	26.1	-99.92		-52.2	-1,148.0	839.9	807.5	32.40	25.925	
7,400.0	7,253.2	7,561.2	7,395.6	16.7	26.2	-101.81		48.7	-1,147.6	844.9	812.2	32.74	25.808	
7,500.0	7,284.8	7,714.7	7,467.6	17.0	26.3	-103.13		183.6	-1,147.0	848.5	815.1	33.42	25.390	
7,600.0	7,297.8	7,875.7	7,497.6	17.6	26.7	-103.60		341.1	-1,146.3	849.8	815.2	34.64	24.534	
7,700.0	7,297.7	7,983.1	7,497.5	18.5	27.1	-103.60		448.5	-1,145.9	849.8	813.6	36.19	23.483	
7,800.0	7,297.2	8,083.1	7,497.2	19.5	27.6	-103.61		548.5	-1,145.5	849.7	811.7	38.04	22.340	
7,900.0	7,296.7	8,183.1	7,496.8	20.6	28.2	-103.62		648.5	-1,145.1	849.7	809.6	40.15	21.164	
8,000.0	7,296.3	8,283.1	7,496.5	21.8	29.0	-103.63		748.5	-1,144.6	849.7	807.2	42.48	19.999	
8,100.0	7,295.8	8,383.1	7,496.1	23.1	29.9	-103.64		848.5	-1,144.2	849.6	804.6	45.01	18.877	
8,200.0	7,295.3	8,483.1	7,495.8	24.5	30.9	-103.65		948.5	-1,143.8	849.6	801.9	47.69	17.814	
8,300.0	7,294.9	8,583.1	7,495.5	26.0	32.0	-103.66		1,048.5	-1,143.4	849.6	799.1	50.51	16.820	
8,400.0	7,294.4	8,683.1	7,495.1	27.5	33.2	-103.67		1,148.5	-1,143.0	849.5	796.1	53.44	15.897	
8,500.0	7,293.9	8,783.1	7,494.8	29.1	34.5	-103.68		1,248.5	-1,142.6	849.5	793.0	56.46	15.045	
8,600.0	7,293.4	8,883.1	7,494.4	30.7	35.9	-103.68		1,348.5	-1,142.2	849.5	789.9	59.57	14.261	
8,700.0	7,293.0	8,983.1	7,494.1	32.4	37.3	-103.69		1,448.5	-1,141.7	849.4	786.7	62.74	13.539	
8,800.0	7,292.5	9,083.1	7,493.7	34.0	38.7	-103.70		1,548.5	-1,141.3	849.4	783.4	65.97	12.875	
8,900.0	7,292.0	9,183.1	7,493.4	35.7	40.2	-103.71		1,648.5	-1,140.9	849.4	780.1	69.25	12.265	
9,000.0	7,291.6	9,283.1	7,493.0	37.4	41.7	-103.72		1,748.5	-1,140.5	849.4	776.8	72.58	11.702	
9,100.0	7,291.1	9,383.1	7,492.7	39.2	43.3	-103.73		1,848.5	-1,140.1	849.3	773.4	75.94	11.184	
9,200.0	7,290.6	9,483.1	7,492.3	40.9	44.9	-103.74		1,948.5	-1,139.7	849.3	769.9	79.34	10.705	
9,300.0	7,290.2	9,583.1	7,492.0	42.7	46.5	-103.75		2,048.5	-1,139.3	849.3	766.5	82.76	10.261	
9,400.0	7,289.7	9,683.1	7,491.6	44.5	48.1	-103.76		2,148.5	-1,138.8	849.2	763.0	86.21	9.850	
9,500.0	7,289.2	9,783.1	7,491.3	46.2	49.8	-103.77		2,248.5	-1,138.4	849.2	759.5	89.68	9.469	
9,600.0	7,288.7	9,883.1	7,490.9	48.0	51.5	-103.77		2,348.5	-1,138.0	849.2	756.0	93.18	9.114	
9,700.0	7,288.3	9,983.1	7,490.6	49.8	53.2	-103.78		2,448.5	-1,137.6	849.1	752.4	96.68	8.782	
9,800.0	7,287.8	10,083.1	7,490.2	51.7	54.9	-103.79		2,548.5	-1,137.2	849.1	748.9	100.21	8.473	
9,900.0	7,287.3	10,183.1	7,489.9	53.5	56.6	-103.80		2,648.5	-1,136.8	849.1	745.3	103.75	8.184	
10,000.0	7,286.9	10,283.1	7,489.5	55.3	58.3	-103.81		2,748.5	-1,136.4	849.0	741.7	107.30	7.913	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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
10,100.0	7,286.4	10,383.1	7,489.2	57.1	60.1	-103.82	2,848.5	-1,135.9	849.0	738.1	110.87	7.658	
10,200.0	7,285.9	10,483.1	7,488.8	59.0	61.8	-103.83	2,948.5	-1,135.5	849.0	734.5	114.44	7.419	
10,300.0	7,285.4	10,583.1	7,488.5	60.8	63.6	-103.84	3,048.5	-1,135.1	848.9	730.9	118.02	7.193	
10,400.0	7,285.0	10,683.1	7,488.1	62.7	65.4	-103.85	3,148.5	-1,134.7	848.9	727.3	121.62	6.980	
10,500.0	7,284.5	10,783.1	7,487.8	64.5	67.1	-103.86	3,248.5	-1,134.3	848.9	723.7	125.21	6.779	
10,600.0	7,284.0	10,883.1	7,487.4	66.4	68.9	-103.86	3,348.5	-1,133.9	848.8	720.0	128.82	6.589	
10,700.0	7,283.6	10,983.1	7,487.1	68.2	70.7	-103.87	3,448.5	-1,133.4	848.8	716.4	132.44	6.409	
10,800.0	7,283.1	11,083.1	7,486.7	70.1	72.5	-103.88	3,548.5	-1,133.0	848.8	712.7	136.06	6.239	
10,900.0	7,282.6	11,183.1	7,486.4	71.9	74.3	-103.89	3,648.5	-1,132.6	848.8	709.1	139.68	6.076	
11,000.0	7,282.1	11,283.1	7,486.0	73.8	76.1	-103.90	3,748.5	-1,132.2	848.7	705.4	143.31	5.922	
11,100.0	7,281.7	11,383.1	7,485.7	75.7	78.0	-103.91	3,848.5	-1,131.8	848.7	701.7	146.94	5.776	
11,200.0	7,281.2	11,483.1	7,485.3	77.5	79.8	-103.92	3,948.5	-1,131.4	848.7	698.1	150.58	5.636	
11,300.0	7,280.7	11,583.1	7,485.0	79.4	81.6	-103.93	4,048.5	-1,131.0	848.6	694.4	154.23	5.502	
11,400.0	7,280.3	11,683.1	7,484.6	81.3	83.4	-103.94	4,148.5	-1,130.5	848.6	690.7	157.87	5.375	
11,500.0	7,279.8	11,783.1	7,484.3	83.2	85.3	-103.95	4,248.5	-1,130.1	848.6	687.0	161.52	5.253	
11,600.0	7,279.3	11,883.1	7,483.9	85.0	87.1	-103.95	4,348.5	-1,129.7	848.5	683.4	165.18	5.137	
11,700.0	7,278.8	11,983.1	7,483.6	86.9	88.9	-103.96	4,448.5	-1,129.3	848.5	679.7	168.83	5.026	
11,800.0	7,278.4	12,083.1	7,483.2	88.8	90.8	-103.97	4,548.5	-1,128.9	848.5	676.0	172.49	4.919	
11,854.5	7,278.1	12,137.6	7,483.0	89.8	91.8	-103.98	4,603.0	-1,128.7	848.5	674.0	174.49	4.863	
11,879.2	7,278.0	12,150.9	7,483.0	90.3	92.1	-103.98	4,616.3	-1,128.6	848.5	673.3	175.18	4.844 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design		Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8											Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-93.38	-3.6	-61.6	61.7					
100.0	100.0	100.0	100.0	0.1	0.1	-93.38	-3.6	-61.6	61.7	61.5	0.22	274.639		
200.0	200.0	200.0	200.0	0.3	0.3	-93.38	-3.6	-61.6	61.7	61.1	0.67	91.546		
300.0	300.0	300.0	300.0	0.6	0.6	-93.38	-3.6	-61.6	61.7	60.6	1.12	54.928		
400.0	400.0	400.0	400.0	0.8	0.8	-93.38	-3.6	-61.6	61.7	60.2	1.57	39.234	CC, ES	
500.0	500.0	497.9	497.8	1.0	1.0	-93.55	-3.9	-63.3	63.4	61.4	2.00	31.641		
600.0	600.0	595.5	595.3	1.2	1.2	-93.98	-4.7	-68.2	68.5	66.1	2.44	28.138		
700.0	700.0	692.7	692.2	1.5	1.4	-94.58	-6.1	-76.4	77.0	74.1	2.88	26.699		
800.0	800.0	789.2	788.0	1.7	1.7	-95.23	-8.0	-87.7	88.8	85.5	3.36	26.469		
900.0	900.0	884.8	882.5	1.9	2.0	-95.84	-10.4	-102.0	104.0	100.1	3.86	26.955		
1,000.0	1,000.0	981.8	978.0	2.1	2.3	-96.37	-13.3	-119.1	121.8	117.4	4.40	27.716		
1,100.0	1,100.0	1,080.2	1,074.7	2.4	2.7	-96.78	-16.3	-136.6	139.9	135.0	4.95	28.242		
1,200.0	1,200.0	1,178.5	1,171.4	2.6	3.1	-97.10	-19.2	-154.2	158.0	152.5	5.52	28.605		
1,300.0	1,300.0	1,276.9	1,268.1	2.8	3.4	-97.35	-22.2	-171.8	176.1	170.0	6.10	28.862		
1,400.0	1,400.0	1,375.2	1,364.8	3.0	3.8	-97.56	-25.1	-189.3	194.2	187.5	6.69	29.050		
1,500.0	1,500.0	1,473.9	1,461.8	3.2	4.2	18.54	-28.1	-207.0	210.7	204.2	6.51	32.377		
1,600.0	1,599.8	1,573.0	1,559.3	3.4	4.6	18.72	-31.1	-224.7	223.9	216.9	6.94	32.273		
1,700.0	1,699.5	1,672.4	1,657.2	3.6	5.0	19.18	-34.0	-242.4	233.8	226.4	7.37	31.711		
1,800.0	1,798.7	1,772.2	1,755.2	3.9	5.4	19.90	-37.0	-260.2	240.6	232.8	7.82	30.768		
1,900.0	1,897.9	1,871.9	1,853.3	4.1	5.8	20.69	-40.0	-278.1	246.5	238.2	8.28	29.750		
2,000.0	1,997.0	1,971.7	1,951.5	4.3	6.3	21.44	-43.0	-295.9	252.4	243.6	8.76	28.816		
2,100.0	2,096.1	2,071.5	2,049.6	4.6	6.7	22.16	-46.0	-313.7	258.4	249.1	9.24	27.959		
2,200.0	2,195.3	2,171.2	2,147.7	4.9	7.1	22.85	-49.0	-331.5	264.4	254.6	9.73	27.170		
2,300.0	2,294.4	2,271.0	2,245.8	5.2	7.5	23.51	-52.0	-349.3	270.4	260.2	10.23	26.442		
2,400.0	2,393.6	2,370.8	2,343.9	5.5	7.9	24.13	-55.0	-367.2	276.5	265.8	10.73	25.770		
2,500.0	2,492.7	2,470.6	2,442.1	5.7	8.3	24.73	-58.0	-385.0	282.6	271.4	11.24	25.147		
2,600.0	2,591.9	2,570.3	2,540.2	6.0	8.7	25.31	-61.0	-402.8	288.8	277.0	11.75	24.569		
2,700.0	2,691.0	2,670.1	2,638.3	6.4	9.1	25.86	-64.0	-420.6	294.9	282.7	12.27	24.032		
2,800.0	2,790.1	2,769.9	2,736.4	6.7	9.6	26.39	-67.0	-438.4	301.1	288.3	12.80	23.532		
2,900.0	2,889.3	2,869.6	2,834.5	7.0	10.0	26.89	-70.0	-456.3	307.4	294.0	13.33	23.064		
3,000.0	2,988.4	2,969.4	2,932.7	7.3	10.4	27.38	-73.0	-474.1	313.6	299.7	13.86	22.628		
3,100.0	3,087.6	3,069.2	3,030.8	7.6	10.8	27.85	-76.0	-491.9	319.9	305.5	14.40	22.219		
3,200.0	3,186.7	3,168.9	3,128.9	7.9	11.2	28.30	-79.0	-509.7	326.1	311.2	14.94	21.835		
3,300.0	3,285.9	3,268.7	3,227.0	8.2	11.6	28.73	-82.0	-527.5	332.4	317.0	15.48	21.474		
3,400.0	3,385.0	3,368.5	3,325.1	8.5	12.0	29.15	-85.0	-545.3	338.8	322.7	16.03	21.135		
3,500.0	3,484.1	3,468.3	3,423.3	8.9	12.5	29.55	-88.0	-563.2	345.1	328.5	16.58	20.815		
3,600.0	3,583.3	3,568.0	3,521.4	9.2	12.9	29.94	-91.0	-581.0	351.5	334.3	17.13	20.513		
3,700.0	3,682.4	3,667.8	3,619.5	9.5	13.3	30.31	-94.0	-598.8	357.8	340.2	17.69	20.227		
3,800.0	3,781.6	3,767.6	3,717.6	9.8	13.7	30.67	-96.9	-616.6	364.2	346.0	18.25	19.957		
3,900.0	3,880.7	3,867.3	3,815.7	10.2	14.1	31.02	-99.9	-634.4	370.6	351.8	18.81	19.701		
4,000.0	3,979.9	3,967.1	3,913.9	10.5	14.5	31.36	-102.9	-652.3	377.0	357.7	19.38	19.458		
4,100.0	4,079.0	4,066.9	4,012.0	10.8	14.9	31.68	-105.9	-670.1	383.5	363.5	19.94	19.228		
4,200.0	4,178.2	4,166.6	4,110.1	11.1	15.4	32.00	-108.9	-687.9	390.3	369.8	20.49	19.047		
4,300.0	4,277.7	4,266.2	4,208.0	11.3	15.8	32.13	-111.9	-705.7	399.8	378.8	20.96	19.073		
4,400.0	4,377.6	4,365.4	4,305.5	11.5	16.2	32.03	-114.9	-723.4	412.2	390.8	21.38	19.278		
4,500.0	4,477.5	4,464.1	4,402.7	11.7	16.6	31.72	-117.9	-741.0	427.6	405.8	21.76	19.654		
4,600.0	4,577.5	4,562.5	4,499.4	11.9	17.0	-85.05	-120.8	-758.6	445.0	422.9	22.12	20.118		
4,700.0	4,677.5	4,660.8	4,596.1	12.1	17.4	-85.61	-123.8	-776.2	462.6	440.1	22.52	20.541		
4,800.0	4,777.5	4,759.2	4,692.8	12.2	17.8	-86.13	-126.7	-793.7	480.2	457.3	22.93	20.945		
4,900.0	4,877.5	4,857.5	4,789.6	12.4	18.2	-86.62	-129.7	-811.3	497.9	474.5	23.34	21.333		
5,000.0	4,977.5	4,955.9	4,886.3	12.6	18.6	-87.07	-132.6	-828.9	515.6	491.8	23.75	21.705		

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,100.0	5,077.5	5,054.2	4,983.0	12.8	19.1	-87.49	-135.6	-846.4	533.3	509.1	24.17	22.061		
5,200.0	5,177.5	5,152.6	5,079.7	12.9	19.5	-87.88	-138.5	-864.0	551.0	526.4	24.59	22.404		
5,300.0	5,277.5	5,250.9	5,176.4	13.1	19.9	-88.25	-141.5	-881.6	568.8	543.8	25.02	22.733		
5,400.0	5,377.5	5,349.3	5,273.2	13.3	20.3	-88.59	-144.4	-899.1	586.6	561.1	25.45	23.049		
5,500.0	5,477.5	5,447.6	5,369.9	13.5	20.7	-88.92	-147.4	-916.7	604.4	578.5	25.88	23.353		
5,600.0	5,577.5	5,545.9	5,466.6	13.7	21.1	-89.23	-150.3	-934.3	622.2	595.9	26.31	23.646		
5,700.0	5,677.5	5,667.8	5,586.8	13.9	21.5	-89.55	-153.7	-954.1	638.5	611.7	26.75	23.867		
5,800.0	5,777.5	5,795.4	5,713.4	14.0	21.8	-89.79	-156.3	-969.4	650.5	623.3	27.18	23.937		
5,900.0	5,877.5	5,924.0	5,841.6	14.2	22.0	-89.94	-157.9	-979.3	658.2	630.6	27.59	23.853		
6,000.0	5,977.5	6,053.4	5,970.9	14.4	22.2	-90.00	-158.6	-983.5	661.4	633.4	28.01	23.614		
6,100.0	6,077.5	6,160.0	6,077.5	14.6	22.3	-90.00	-158.6	-983.6	661.5	633.1	28.40	23.296		
6,200.0	6,177.5	6,260.0	6,177.5	14.8	22.5	-90.00	-158.6	-983.6	661.5	632.7	28.77	22.990		
6,300.0	6,277.5	6,360.0	6,277.5	15.0	22.6	-90.00	-158.6	-983.6	661.5	632.4	29.15	22.690		
6,400.0	6,377.5	6,460.0	6,377.5	15.2	22.7	-90.00	-158.6	-983.6	661.5	632.0	29.54	22.397		
6,500.0	6,477.5	6,560.0	6,477.5	15.4	22.8	-90.00	-158.6	-983.6	661.5	631.6	29.92	22.110		
6,600.0	6,577.5	6,660.0	6,577.5	15.6	23.0	-90.00	-158.6	-983.6	661.5	631.2	30.31	21.828		
6,654.0	6,631.6	6,714.1	6,631.6	15.7	23.0	-89.76	-155.8	-983.6	661.5	631.0	30.52	21.672		
6,700.0	6,677.5	6,759.3	6,676.2	15.8	23.1	-89.18	-149.1	-983.6	661.6	630.8	30.72	21.532		
6,800.0	6,777.5	6,851.9	6,765.1	16.0	23.2	-87.17	-123.6	-983.5	662.4	631.2	31.21	21.224		
6,900.0	6,876.9	6,937.1	6,841.7	16.1	23.2	-84.32	-86.5	-983.3	665.1	633.4	31.69	20.989		
7,000.0	6,972.6	7,018.6	6,908.4	16.3	23.2	-81.67	-39.8	-983.1	669.2	637.1	32.04	20.887		
7,100.0	7,061.2	7,100.0	6,966.9	16.4	23.3	-79.23	16.7	-982.9	673.9	641.7	32.25	20.899		
7,200.0	7,139.3	7,173.6	7,011.7	16.4	23.3	-77.25	75.0	-982.6	678.9	646.5	32.40	20.956		
7,300.0	7,204.1	7,250.0	7,049.0	16.5	23.4	-75.56	141.6	-982.3	683.4	650.9	32.55	20.999		
7,400.0	7,253.2	7,321.8	7,074.9	16.7	23.5	-74.33	208.6	-982.1	687.1	654.2	32.96	20.846		
7,500.0	7,284.8	7,400.0	7,092.2	17.0	23.7	-73.49	284.7	-981.7	689.7	655.8	33.81	20.398		
7,600.0	7,297.8	7,467.0	7,097.9	17.6	23.9	-73.18	351.4	-981.5	690.7	655.6	35.11	19.675		
7,700.0	7,297.7	7,561.9	7,097.6	18.5	24.3	-73.16	446.3	-981.1	690.7	653.9	36.81	18.762		
7,800.0	7,297.2	7,661.9	7,097.2	19.5	24.9	-73.16	546.3	-980.6	690.6	651.9	38.76	17.816		
7,900.0	7,296.7	7,761.9	7,096.7	20.6	25.7	-73.16	646.3	-980.2	690.6	649.6	40.96	16.860		
8,000.0	7,296.3	7,861.9	7,096.2	21.8	26.6	-73.16	746.3	-979.8	690.5	647.1	43.35	15.927		
8,100.0	7,295.8	7,961.9	7,095.8	23.1	27.6	-73.16	846.3	-979.4	690.4	644.5	45.92	15.035		
8,200.0	7,295.3	8,061.9	7,095.3	24.5	28.7	-73.16	946.3	-978.9	690.3	641.7	48.63	14.196		
8,300.0	7,294.9	8,161.9	7,094.8	26.0	29.9	-73.15	1,046.3	-978.5	690.3	638.8	51.46	13.413		
8,400.0	7,294.4	8,261.9	7,094.3	27.5	31.2	-73.15	1,146.2	-978.1	690.2	635.8	54.40	12.688		
8,500.0	7,293.9	8,361.9	7,093.9	29.1	32.6	-73.15	1,246.2	-977.7	690.1	632.7	57.42	12.019		
8,600.0	7,293.4	8,461.9	7,093.4	30.7	34.0	-73.15	1,346.2	-977.2	690.1	629.6	60.52	11.403		
8,700.0	7,293.0	8,561.9	7,092.9	32.4	35.5	-73.15	1,446.2	-976.8	690.0	626.3	63.68	10.836		
8,800.0	7,292.5	8,661.9	7,092.5	34.0	37.1	-73.15	1,546.2	-976.4	689.9	623.0	66.89	10.315		
8,900.0	7,292.0	8,761.9	7,092.0	35.7	38.6	-73.14	1,646.2	-976.0	689.9	619.7	70.15	9.834		
9,000.0	7,291.6	8,861.9	7,091.5	37.4	40.2	-73.14	1,746.2	-975.5	689.8	616.3	73.45	9.391		
9,100.0	7,291.1	8,961.9	7,091.1	39.2	41.8	-73.14	1,846.2	-975.1	689.7	612.9	76.78	8.983		
9,200.0	7,290.6	9,061.9	7,090.6	40.9	43.5	-73.14	1,946.2	-974.7	689.7	609.5	80.15	8.605		
9,300.0	7,290.2	9,161.9	7,090.1	42.7	45.1	-73.14	2,046.2	-974.3	689.6	606.0	83.54	8.254		
9,400.0	7,289.7	9,261.9	7,089.6	44.5	46.8	-73.13	2,146.2	-973.8	689.5	602.6	86.96	7.929		
9,500.0	7,289.2	9,361.9	7,089.2	46.2	48.5	-73.13	2,246.2	-973.4	689.5	599.1	90.40	7.627		
9,600.0	7,288.7	9,461.9	7,088.7	48.0	50.2	-73.13	2,346.2	-973.0	689.4	595.5	93.86	7.345		
9,700.0	7,288.3	9,561.9	7,088.2	49.8	52.0	-73.13	2,446.2	-972.6	689.3	592.0	97.33	7.082		
9,800.0	7,287.8	9,661.9	7,087.8	51.7	53.7	-73.13	2,546.2	-972.2	689.2	588.4	100.82	6.837		
9,900.0	7,287.3	9,761.9	7,087.3	53.5	55.5	-73.13	2,646.2	-971.7	689.2	584.9	104.32	6.606		
10,000.0	7,286.9	9,861.9	7,086.8	55.3	57.2	-73.12	2,746.2	-971.3	689.1	581.3	107.84	6.390		

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.0	7,286.4	9,961.9	7,086.3	57.1	59.0	-73.12	2,846.2	-970.9	689.0	577.7	111.36	6.187	
10,200.0	7,285.9	10,061.9	7,085.9	59.0	60.8	-73.12	2,946.2	-970.5	689.0	574.1	114.90	5.996	
10,300.0	7,285.4	10,161.9	7,085.4	60.8	62.6	-73.12	3,046.2	-970.0	688.9	570.5	118.44	5.816	
10,400.0	7,285.0	10,261.9	7,084.9	62.7	64.4	-73.12	3,146.2	-969.6	688.8	566.8	121.99	5.646	
10,500.0	7,284.5	10,361.9	7,084.5	64.5	66.2	-73.12	3,246.2	-969.2	688.8	563.2	125.56	5.486	
10,600.0	7,284.0	10,461.9	7,084.0	66.4	68.0	-73.11	3,346.2	-968.8	688.7	559.6	129.12	5.334	
10,700.0	7,283.6	10,561.9	7,083.5	68.2	69.8	-73.11	3,446.2	-968.3	688.6	555.9	132.70	5.189	
10,800.0	7,283.1	10,661.9	7,083.0	70.1	71.6	-73.11	3,546.2	-967.9	688.6	552.3	136.28	5.053	
10,900.0	7,282.6	10,761.9	7,082.6	71.9	73.5	-73.11	3,646.2	-967.5	688.5	548.6	139.86	4.923	
11,000.0	7,282.1	10,861.9	7,082.1	73.8	75.3	-73.11	3,746.2	-967.1	688.4	545.0	143.45	4.799	
11,100.0	7,281.7	10,961.9	7,081.6	75.7	77.1	-73.11	3,846.2	-966.6	688.4	541.3	147.05	4.681	
11,200.0	7,281.2	11,061.9	7,081.2	77.5	79.0	-73.10	3,946.2	-966.2	688.3	537.6	150.65	4.569	
11,300.0	7,280.7	11,161.9	7,080.7	79.4	80.8	-73.10	4,046.2	-965.8	688.2	534.0	154.25	4.462	
11,400.0	7,280.3	11,261.9	7,080.2	81.3	82.7	-73.10	4,146.2	-965.4	688.1	530.3	157.86	4.359	
11,500.0	7,279.8	11,361.9	7,079.7	83.2	84.5	-73.10	4,246.2	-964.9	688.1	526.6	161.47	4.261	
11,600.0	7,279.3	11,461.9	7,079.3	85.0	86.4	-73.10	4,346.2	-964.5	688.0	522.9	165.08	4.168	
11,700.0	7,278.8	11,561.9	7,078.8	86.9	88.2	-73.10	4,446.2	-964.1	687.9	519.2	168.70	4.078	
11,800.0	7,278.4	11,661.9	7,078.3	88.8	90.1	-73.09	4,546.2	-963.7	687.9	515.6	172.32	3.992	
11,856.8	7,278.1	11,718.6	7,078.1	89.9	91.1	-73.09	4,602.9	-963.4	687.8	513.5	174.37	3.945	
11,879.2	7,278.0	11,732.0	7,078.0	90.3	91.4	-73.09	4,616.3	-963.4	687.9	512.9	175.02	3.930 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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
0.0	0.0	0.0	0.0	0.0	0.0	-94.65	-94.65	-3.6	-44.8	45.0				
100.0	100.0	100.0	100.0	0.1	0.1	-94.65	-94.65	-3.6	-44.8	45.0	44.7	0.22	200.047	
200.0	200.0	200.0	200.0	0.3	0.3	-94.65	-94.65	-3.6	-44.8	45.0	44.3	0.67	66.682	
300.0	300.0	300.0	300.0	0.6	0.6	-94.65	-94.65	-3.6	-44.8	45.0	43.8	1.12	40.009	
400.0	400.0	400.0	400.0	0.8	0.8	-94.65	-94.65	-3.6	-44.8	45.0	43.4	1.57	28.578	
500.0	500.0	500.0	500.0	1.0	1.0	-94.65	-94.65	-3.6	-44.8	45.0	42.9	2.02	22.227	
600.0	600.0	600.0	600.0	1.2	1.2	-94.65	-94.65	-3.6	-44.8	45.0	42.5	2.47	18.186 CC, ES	
700.0	700.0	698.4	698.4	1.5	1.4	-94.92	-94.92	-4.0	-46.5	46.7	43.8	2.90	16.073	
800.0	800.0	796.6	796.6	1.7	1.6	-95.62	-95.62	-5.1	-51.4	51.8	48.4	3.33	15.551	
900.0	900.0	894.4	893.8	1.9	1.9	-96.52	-96.52	-6.8	-59.6	60.3	56.5	3.77	15.987	
1,000.0	1,000.0	991.4	990.2	2.1	2.1	-97.42	-97.42	-9.2	-70.9	72.2	68.0	4.23	17.050	
1,100.0	1,100.0	1,089.5	1,087.3	2.4	2.4	-98.20	-98.20	-12.2	-84.9	86.7	81.9	4.72	18.349	
1,200.0	1,200.0	1,188.5	1,185.1	2.6	2.7	-98.76	-98.76	-15.3	-99.1	101.3	96.1	5.23	19.378	
1,300.0	1,300.0	1,287.4	1,283.0	2.8	3.0	-99.19	-99.19	-18.3	-113.3	116.0	110.3	5.75	20.188	
1,400.0	1,400.0	1,386.3	1,380.8	3.0	3.3	-99.51	-99.51	-21.4	-127.5	130.7	124.4	6.27	20.836	
1,500.0	1,500.0	1,485.4	1,478.9	3.2	3.7	16.56	16.56	-24.4	-141.8	143.7	137.3	6.42	22.401	
1,600.0	1,599.8	1,585.0	1,577.3	3.4	4.0	16.83	16.83	-27.5	-156.1	153.4	146.6	6.83	22.465	
1,700.0	1,699.5	1,684.7	1,676.0	3.6	4.3	17.44	17.44	-30.6	-170.4	159.8	152.6	7.25	22.044	
1,800.0	1,798.7	1,784.6	1,774.8	3.9	4.7	18.40	18.40	-33.6	-184.8	163.0	155.3	7.68	21.227	
1,900.0	1,897.9	1,884.6	1,873.7	4.1	5.0	19.44	19.44	-36.7	-199.1	165.3	157.2	8.13	20.332	
2,000.0	1,997.0	1,984.5	1,972.5	4.3	5.4	20.46	20.46	-39.8	-213.5	167.7	159.1	8.59	19.516	
2,100.0	2,096.1	2,084.4	2,071.4	4.6	5.7	21.45	21.45	-42.9	-227.8	170.1	161.0	9.06	18.770	
2,200.0	2,195.3	2,184.3	2,170.2	4.9	6.1	22.41	22.41	-46.0	-242.2	172.6	163.0	9.54	18.088	
2,300.0	2,294.4	2,284.3	2,269.0	5.2	6.4	23.34	23.34	-49.0	-256.6	175.1	165.0	10.03	17.461	
2,400.0	2,393.6	2,384.2	2,367.9	5.5	6.8	24.25	24.25	-52.1	-270.9	177.6	167.1	10.52	16.885	
2,500.0	2,492.7	2,484.1	2,466.7	5.7	7.1	25.13	25.13	-55.2	-285.3	180.2	169.2	11.02	16.353	
2,600.0	2,591.9	2,584.1	2,565.6	6.0	7.5	25.99	25.99	-58.3	-299.7	182.9	171.3	11.53	15.861	
2,700.0	2,691.0	2,684.0	2,664.4	6.4	7.9	26.82	26.82	-61.3	-314.0	185.5	173.5	12.04	15.406	
2,800.0	2,790.1	2,783.9	2,763.3	6.7	8.2	27.63	27.63	-64.4	-328.4	188.2	175.7	12.56	14.983	
2,900.0	2,889.3	2,883.8	2,862.1	7.0	8.6	28.41	28.41	-67.5	-342.7	191.0	177.9	13.09	14.590	
3,000.0	2,988.4	2,983.8	2,960.9	7.3	8.9	29.17	29.17	-70.6	-357.1	193.8	180.2	13.62	14.223	
3,100.0	3,087.6	3,083.7	3,059.8	7.6	9.3	29.92	29.92	-73.7	-371.5	196.6	182.4	14.16	13.881	
3,200.0	3,186.7	3,183.6	3,158.6	7.9	9.6	30.63	30.63	-76.7	-385.8	199.4	184.7	14.71	13.561	
3,300.0	3,285.9	3,283.6	3,257.5	8.2	10.0	31.33	31.33	-79.8	-400.2	202.3	187.1	15.26	13.262	
3,400.0	3,385.0	3,383.5	3,356.3	8.5	10.4	32.01	32.01	-82.9	-414.5	205.2	189.4	15.81	12.980	
3,500.0	3,484.1	3,483.4	3,455.2	8.9	10.7	32.67	32.67	-86.0	-428.9	208.2	191.8	16.37	12.716	
3,600.0	3,583.3	3,583.3	3,554.0	9.2	11.1	33.32	33.32	-89.1	-443.3	211.1	194.2	16.94	12.468	
3,700.0	3,682.4	3,683.3	3,652.8	9.5	11.4	33.94	33.94	-92.1	-457.6	214.1	196.6	17.50	12.234	
3,800.0	3,781.6	3,783.2	3,751.7	9.8	11.8	34.55	34.55	-95.2	-472.0	217.2	199.1	18.08	12.013	
3,900.0	3,880.7	3,883.1	3,850.5	10.2	12.2	35.14	35.14	-98.3	-486.4	220.2	201.5	18.65	11.805	
4,000.0	3,979.9	3,983.1	3,949.4	10.5	12.5	35.71	35.71	-101.4	-500.7	223.3	204.0	19.23	11.608	
4,100.0	4,079.0	4,083.0	4,048.2	10.8	12.9	36.27	36.27	-104.4	-515.1	226.3	206.5	19.82	11.421	
4,200.0	4,178.2	4,182.9	4,147.0	11.1	13.2	36.76	36.76	-107.5	-529.4	229.8	209.5	20.38	11.275	
4,300.0	4,277.7	4,282.7	4,245.8	11.3	13.6	36.83	36.83	-110.6	-543.8	235.8	215.0	20.86	11.307	
4,400.0	4,377.6	4,382.3	4,344.3	11.5	14.0	36.45	36.45	-113.7	-558.1	244.6	223.3	21.26	11.504	
4,500.0	4,477.5	4,481.5	4,442.4	11.7	14.3	35.67	35.67	-116.7	-572.4	256.2	234.6	21.61	11.859	
4,600.0	4,577.5	4,580.5	4,540.3	11.9	14.7	-81.65	-81.65	-119.8	-586.6	269.9	248.0	21.93	12.308	
4,700.0	4,677.5	4,679.4	4,638.1	12.1	15.0	-82.68	-82.68	-122.8	-600.8	283.7	261.4	22.29	12.731	
4,800.0	4,777.5	4,778.3	4,736.0	12.2	15.4	-83.62	-83.62	-125.9	-615.0	297.6	275.0	22.66	13.138	
4,900.0	4,877.5	4,877.2	4,833.8	12.4	15.7	-84.48	-84.48	-128.9	-629.2	311.6	288.6	23.03	13.530	
5,000.0	4,977.5	4,976.1	4,931.7	12.6	16.1	-85.26	-85.26	-132.0	-643.4	325.7	302.3	23.42	13.908	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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
5,100.0	5,077.5	5,075.0	5,029.5	12.8	16.5	-85.98	-85.98	-135.0	-657.7	339.8	316.0	23.81	14.272	
5,200.0	5,177.5	5,174.0	5,127.3	12.9	16.8	-86.64	-86.64	-138.1	-671.9	354.0	329.7	24.21	14.622	
5,300.0	5,277.5	5,272.9	5,225.2	13.1	17.2	-87.25	-87.25	-141.1	-686.1	368.2	343.5	24.61	14.960	
5,400.0	5,377.5	5,371.8	5,323.0	13.3	17.5	-87.81	-87.81	-144.2	-700.3	382.4	357.4	25.02	15.285	
5,500.0	5,477.5	5,470.7	5,420.9	13.5	17.9	-88.34	-88.34	-147.2	-714.5	396.7	371.2	25.43	15.599	
5,600.0	5,577.5	5,569.6	5,518.7	13.7	18.2	-88.82	-88.82	-150.2	-728.7	411.0	385.1	25.84	15.901	
5,700.0	5,677.5	5,675.0	5,622.9	13.9	18.6	-89.30	-89.30	-153.4	-743.5	425.0	398.7	26.26	16.182	
5,800.0	5,777.5	5,791.4	5,738.7	14.0	18.9	-89.68	-89.68	-156.1	-756.2	435.9	409.2	26.66	16.347	
5,900.0	5,877.5	5,908.8	5,855.7	14.2	19.1	-89.91	-89.91	-157.9	-764.4	442.8	415.7	27.06	16.364	
6,000.0	5,977.5	6,026.6	5,973.5	14.4	19.3	-90.00	-90.00	-158.6	-767.8	445.7	418.3	27.46	16.234	
6,100.0	6,077.5	6,130.6	6,077.5	14.6	19.4	-90.01	-90.01	-158.6	-767.9	445.8	418.0	27.85	16.010	
6,200.0	6,177.5	6,230.6	6,177.5	14.8	19.6	-90.01	-90.01	-158.6	-767.9	445.8	417.6	28.23	15.791	
6,300.0	6,277.5	6,330.6	6,277.5	15.0	19.7	-90.01	-90.01	-158.6	-767.9	445.8	417.2	28.62	15.578	
6,400.0	6,377.5	6,430.6	6,377.5	15.2	19.8	-90.01	-90.01	-158.6	-767.9	445.8	416.8	29.01	15.369	
6,500.0	6,477.5	6,530.6	6,477.5	15.4	20.0	-90.01	-90.01	-158.6	-767.9	445.8	416.4	29.40	15.165	
6,600.0	6,577.5	6,630.6	6,577.5	15.6	20.1	-90.01	-90.01	-158.6	-767.9	445.8	416.0	29.79	14.965	
6,700.0	6,677.5	6,730.6	6,677.5	15.8	20.3	-90.01	-90.01	-158.6	-767.9	445.8	415.6	30.18	14.770	
6,800.0	6,777.5	6,830.6	6,777.5	16.0	20.4	-90.21	-90.21	-158.6	-767.9	445.8	415.2	30.59	14.573	
6,900.0	6,876.9	6,930.9	6,877.2	16.1	20.6	-90.20	-90.20	-148.9	-767.9	445.8	414.9	30.93	14.416	
7,000.0	6,972.6	7,031.2	6,973.2	16.3	20.6	-90.19	-90.19	-120.4	-767.8	445.8	414.7	31.16	14.309	
7,100.0	7,061.2	7,131.5	7,061.9	16.4	20.7	-90.17	-90.17	-73.9	-767.6	445.8	414.5	31.35	14.222	
7,200.0	7,139.3	7,231.8	7,140.1	16.4	20.8	-90.15	-90.15	-11.4	-767.4	445.8	414.2	31.59	14.111	
7,300.0	7,204.1	7,332.0	7,204.8	16.5	20.8	-90.12	-90.12	64.8	-767.1	445.8	413.8	32.01	13.928	
7,400.0	7,253.2	7,432.1	7,253.8	16.7	20.9	-90.08	-90.08	152.0	-766.8	445.8	413.1	32.70	13.635	
7,500.0	7,284.8	7,532.2	7,285.1	17.0	21.1	-90.04	-90.04	246.9	-766.5	445.8	412.1	33.72	13.220	
7,600.0	7,297.8	7,632.2	7,297.8	17.6	21.5	-90.00	-90.00	346.0	-766.1	445.8	410.7	35.09	12.703	
7,700.0	7,297.7	7,732.2	7,297.7	18.5	22.0	-90.00	-90.00	446.0	-765.8	445.8	409.0	36.80	12.115	
7,800.0	7,297.2	7,832.2	7,297.2	19.5	22.7	-90.00	-90.00	546.0	-765.4	445.8	407.0	38.79	11.493	
7,900.0	7,296.7	7,932.2	7,296.7	20.6	23.6	-90.00	-90.00	646.0	-765.1	445.8	404.7	41.04	10.861	
8,000.0	7,296.3	8,032.2	7,296.3	21.8	24.6	-90.00	-90.00	746.0	-764.7	445.8	402.3	43.52	10.244	
8,100.0	7,295.8	8,132.2	7,295.8	23.1	25.8	-90.00	-90.00	846.0	-764.3	445.8	399.6	46.18	9.654	
8,200.0	7,295.3	8,232.2	7,295.3	24.5	27.0	-90.00	-90.00	946.0	-764.0	445.8	396.8	48.99	9.099	
8,300.0	7,294.9	8,332.2	7,294.8	26.0	28.4	-90.00	-90.00	1,046.0	-763.6	445.8	393.8	51.94	8.583	
8,400.0	7,294.4	8,432.2	7,294.4	27.5	29.8	-90.00	-90.00	1,146.0	-763.3	445.8	390.8	54.99	8.106	
8,500.0	7,293.9	8,532.2	7,293.9	29.1	31.2	-90.00	-90.00	1,246.0	-762.9	445.8	387.6	58.14	7.668	
8,600.0	7,293.4	8,632.2	7,293.4	30.7	32.7	-90.00	-90.00	1,346.0	-762.6	445.8	384.4	61.36	7.265	
8,700.0	7,293.0	8,732.2	7,293.0	32.4	34.3	-90.00	-90.00	1,446.0	-762.2	445.8	381.1	64.65	6.895	
8,800.0	7,292.5	8,832.2	7,292.5	34.0	35.9	-90.00	-90.00	1,546.0	-761.9	445.8	377.8	67.99	6.556	
8,900.0	7,292.0	8,932.2	7,292.0	35.7	37.5	-90.00	-90.00	1,646.0	-761.5	445.8	374.4	71.39	6.244	
9,000.0	7,291.6	9,032.2	7,291.5	37.4	39.1	-90.00	-90.00	1,746.0	-761.1	445.7	370.9	74.83	5.957	
9,100.0	7,291.1	9,132.2	7,291.1	39.2	40.8	-90.00	-90.00	1,846.0	-760.8	445.7	367.4	78.30	5.693	
9,200.0	7,290.6	9,232.2	7,290.6	40.9	42.5	-90.00	-90.00	1,946.0	-760.4	445.7	363.9	81.80	5.449	
9,300.0	7,290.2	9,332.2	7,290.1	42.7	44.2	-90.00	-90.00	2,046.0	-760.1	445.7	360.4	85.33	5.223	
9,400.0	7,289.7	9,432.2	7,289.7	44.5	45.9	-90.00	-90.00	2,146.0	-759.7	445.7	356.8	88.89	5.014	
9,500.0	7,289.2	9,532.2	7,289.2	46.2	47.7	-90.00	-90.00	2,246.0	-759.4	445.7	353.3	92.47	4.820	
9,600.0	7,288.7	9,632.2	7,288.7	48.0	49.4	-90.00	-90.00	2,346.0	-759.0	445.7	349.7	96.07	4.640	
9,700.0	7,288.3	9,732.2	7,288.2	49.8	51.2	-90.00	-90.00	2,446.0	-758.6	445.7	346.0	99.68	4.471	
9,800.0	7,287.8	9,832.2	7,287.8	51.7	53.0	-90.00	-90.00	2,546.0	-758.3	445.7	342.4	103.31	4.314	
9,900.0	7,287.3	9,932.2	7,287.3	53.5	54.7	-90.00	-90.00	2,645.9	-757.9	445.7	338.8	106.96	4.167	
10,000.0	7,286.9	10,032.2	7,286.8	55.3	56.5	-90.00	-90.00	2,745.9	-757.6	445.7	335.1	110.61	4.029	
10,100.0	7,286.4	10,132.2	7,286.4	57.1	58.3	-90.00	-90.00	2,845.9	-757.2	445.7	331.4	114.28	3.900	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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	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)			
10,200.0	7,285.9	10,232.2	7,285.9	59.0	60.1	-90.00	2,945.9	-756.9	445.7	327.7	117.96	3.779		
10,300.0	7,285.4	10,332.2	7,285.4	60.8	61.9	-90.00	3,045.9	-756.5	445.7	324.1	121.65	3.664		
10,400.0	7,285.0	10,432.2	7,284.9	62.7	63.8	-90.00	3,145.9	-756.2	445.7	320.4	125.34	3.556		
10,500.0	7,284.5	10,532.2	7,284.5	64.5	65.6	-90.00	3,245.9	-755.8	445.7	316.7	129.04	3.454		
10,600.0	7,284.0	10,632.2	7,284.0	66.4	67.4	-90.00	3,345.9	-755.4	445.7	312.9	132.76	3.357		
10,700.0	7,283.6	10,732.2	7,283.5	68.2	69.3	-90.00	3,445.9	-755.1	445.7	309.2	136.47	3.266		
10,800.0	7,283.1	10,832.2	7,283.1	70.1	71.1	-90.00	3,545.9	-754.7	445.7	305.5	140.20	3.179		
10,900.0	7,282.6	10,932.2	7,282.6	71.9	72.9	-90.00	3,645.9	-754.4	445.7	301.8	143.92	3.097		
11,000.0	7,282.1	11,032.2	7,282.1	73.8	74.8	-90.00	3,745.9	-754.0	445.7	298.0	147.66	3.018		
11,100.0	7,281.7	11,132.2	7,281.6	75.7	76.6	-90.00	3,845.9	-753.7	445.7	294.3	151.40	2.944		
11,200.0	7,281.2	11,232.2	7,281.2	77.5	78.5	-90.00	3,945.9	-753.3	445.7	290.5	155.14	2.873		
11,300.0	7,280.7	11,332.2	7,280.7	79.4	80.3	-90.00	4,045.9	-753.0	445.7	286.8	158.89	2.805		
11,400.0	7,280.3	11,432.2	7,280.2	81.3	82.2	-90.00	4,145.9	-752.6	445.7	283.0	162.64	2.740		
11,500.0	7,279.8	11,532.2	7,279.8	83.2	84.0	-90.00	4,245.9	-752.2	445.7	279.3	166.39	2.678		
11,600.0	7,279.3	11,632.2	7,279.3	85.0	85.9	-90.00	4,345.9	-751.9	445.7	275.5	170.15	2.619		
11,700.0	7,278.8	11,732.2	7,278.8	86.9	87.8	-90.00	4,445.9	-751.5	445.7	271.7	173.91	2.563		
11,800.0	7,278.4	11,832.2	7,278.3	88.8	89.6	-90.00	4,545.9	-751.2	445.7	268.0	177.67	2.508		
11,855.8	7,278.1	11,888.0	7,278.1	89.9	90.7	-90.00	4,601.7	-751.0	445.6	265.9	179.77	2.479		
11,879.2	7,278.0	11,905.5	7,278.0	90.3	91.0	-90.00	4,619.2	-750.9	445.7	265.1	180.54	2.469 SF		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	-90.00	0.0	-30.8	30.8				
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	-90.00	0.0	-30.8	30.8	30.6	0.22	137.080	
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	-90.00	0.0	-30.8	30.8	30.1	0.67	45.693	
300.0	300.0	300.0	300.0	0.6	0.6	-90.00	-90.00	0.0	-30.8	30.8	29.7	1.12	27.416	
400.0	400.0	400.0	400.0	0.8	0.8	-90.00	-90.00	0.0	-30.8	30.8	29.2	1.57	19.583	
500.0	500.0	500.0	500.0	1.0	1.0	-90.00	-90.00	0.0	-30.8	30.8	28.8	2.02	15.231	
600.0	600.0	600.0	600.0	1.2	1.2	-90.00	-90.00	0.0	-30.8	30.8	28.3	2.47	12.462	
700.0	700.0	700.0	700.0	1.5	1.5	-90.00	-90.00	0.0	-30.8	30.8	27.9	2.92	10.545	
800.0	800.0	800.0	800.0	1.7	1.7	-90.00	-90.00	0.0	-30.8	30.8	27.4	3.37	9.139 CC, ES	
900.0	900.0	898.9	898.9	1.9	1.9	-90.74	-90.74	-0.4	-32.5	32.5	28.7	3.80	8.543	
1,000.0	1,000.0	997.6	997.5	2.1	2.1	-92.58	-92.58	-1.7	-37.4	37.5	33.3	4.23	8.882	
1,100.0	1,100.0	1,095.8	1,095.3	2.4	2.3	-94.73	-94.73	-3.8	-45.6	46.0	41.3	4.66	9.865	
1,200.0	1,200.0	1,193.4	1,192.1	2.6	2.5	-96.68	-96.68	-6.7	-56.9	57.9	52.7	5.12	11.308	
1,300.0	1,300.0	1,291.6	1,289.3	2.8	2.8	-98.21	-98.21	-10.2	-70.9	72.4	66.8	5.60	12.941	
1,400.0	1,400.0	1,390.5	1,387.1	3.0	3.1	-99.24	-99.24	-13.9	-85.1	87.2	81.1	6.09	14.315	
1,500.0	1,500.0	1,489.6	1,485.1	3.2	3.4	16.44	16.44	-17.5	-99.4	100.3	94.0	6.38	15.717	
1,600.0	1,599.8	1,589.1	1,583.5	3.4	3.7	16.54	16.54	-21.1	-113.7	110.2	103.4	6.79	16.230	
1,700.0	1,699.5	1,688.9	1,682.2	3.6	4.0	17.13	17.13	-24.8	-128.1	116.7	109.5	7.20	16.208	
1,800.0	1,798.7	1,788.8	1,781.0	3.9	4.4	18.16	18.16	-28.5	-142.5	120.0	112.3	7.62	15.744	
1,900.0	1,897.9	1,888.8	1,879.8	4.1	4.7	19.31	19.31	-32.1	-156.8	122.4	114.3	8.07	15.168	
2,000.0	1,997.0	1,988.7	1,978.7	4.3	5.1	20.41	20.41	-35.8	-171.2	124.8	116.3	8.52	14.642	
2,100.0	2,096.1	2,088.6	2,077.5	4.6	5.4	21.47	21.47	-39.5	-185.6	127.3	118.3	8.99	14.158	
2,200.0	2,195.3	2,188.6	2,176.3	4.9	5.7	22.49	22.49	-43.2	-200.0	129.8	120.3	9.47	13.714	
2,300.0	2,294.4	2,288.5	2,275.2	5.2	6.1	23.47	23.47	-46.8	-214.4	132.4	122.4	9.95	13.304	
2,400.0	2,393.6	2,388.5	2,374.0	5.5	6.4	24.41	24.41	-50.5	-228.8	135.0	124.5	10.44	12.926	
2,500.0	2,492.7	2,488.4	2,472.8	5.7	6.8	25.31	25.31	-54.2	-243.2	137.6	126.7	10.94	12.577	
2,600.0	2,591.9	2,588.4	2,571.7	6.0	7.1	26.18	26.18	-57.8	-257.5	140.3	128.8	11.45	12.252	
2,700.0	2,691.0	2,688.3	2,670.5	6.4	7.5	27.02	27.02	-61.5	-271.9	143.0	131.0	11.96	11.951	
2,800.0	2,790.1	2,788.2	2,769.3	6.7	7.9	27.83	27.83	-65.2	-286.3	145.7	133.2	12.49	11.671	
2,900.0	2,889.3	2,888.2	2,868.2	7.0	8.2	28.61	28.61	-68.8	-300.7	148.5	135.5	13.01	11.410	
3,000.0	2,988.4	2,988.1	2,967.0	7.3	8.6	29.36	29.36	-72.5	-315.1	151.3	137.7	13.55	11.166	
3,100.0	3,087.6	3,088.1	3,065.8	7.6	8.9	30.08	30.08	-76.2	-329.5	154.1	140.0	14.09	10.938	
3,200.0	3,186.7	3,188.0	3,164.7	7.9	9.3	30.77	30.77	-79.8	-343.8	156.9	142.3	14.63	10.725	
3,300.0	3,285.9	3,287.9	3,263.5	8.2	9.6	31.45	31.45	-83.5	-358.2	159.8	144.6	15.18	10.525	
3,400.0	3,385.0	3,387.9	3,362.3	8.5	10.0	32.09	32.09	-87.2	-372.6	162.7	146.9	15.74	10.337	
3,500.0	3,484.1	3,487.8	3,461.2	8.9	10.4	32.72	32.72	-90.9	-387.0	165.6	149.3	16.30	10.160	
3,600.0	3,583.3	3,587.8	3,560.0	9.2	10.7	33.32	33.32	-94.5	-401.4	168.5	151.6	16.86	9.993	
3,700.0	3,682.4	3,687.7	3,658.8	9.5	11.1	33.90	33.90	-98.2	-415.8	171.4	154.0	17.43	9.836	
3,800.0	3,781.6	3,787.7	3,757.7	9.8	11.4	34.47	34.47	-101.9	-430.2	174.4	156.4	18.00	9.688	
3,900.0	3,880.7	3,887.6	3,856.5	10.2	11.8	35.01	35.01	-105.5	-444.5	177.3	158.8	18.57	9.547	
4,000.0	3,979.9	3,987.5	3,955.3	10.5	12.2	35.54	35.54	-109.2	-458.9	180.3	161.2	19.15	9.415	
4,100.0	4,079.0	4,087.5	4,054.2	10.8	12.5	36.05	36.05	-112.9	-473.3	183.3	163.6	19.74	9.289	
4,200.0	4,178.2	4,187.4	4,153.0	11.1	12.9	36.47	36.47	-116.5	-487.7	186.7	166.4	20.30	9.199	
4,300.0	4,277.7	4,287.2	4,251.7	11.3	13.3	36.38	36.38	-120.2	-502.1	192.6	171.9	20.76	9.278	
4,400.0	4,377.6	4,386.8	4,350.2	11.5	13.6	35.74	35.74	-123.9	-516.4	201.4	180.2	21.15	9.520	
4,500.0	4,477.5	4,486.0	4,448.3	11.7	14.0	34.65	34.65	-127.5	-530.7	213.0	191.5	21.47	9.917	
4,600.0	4,577.5	4,584.9	4,546.1	11.9	14.3	-82.97	-82.97	-131.1	-544.9	226.7	204.9	21.78	10.410	
4,700.0	4,677.5	4,683.8	4,643.9	12.1	14.7	-84.26	-84.26	-134.8	-559.1	240.6	218.5	22.12	10.877	
4,800.0	4,777.5	4,782.7	4,741.7	12.2	15.0	-85.40	-85.40	-138.4	-573.4	254.6	232.1	22.48	11.329	
4,900.0	4,877.5	4,881.6	4,839.5	12.4	15.4	-86.43	-86.43	-142.0	-587.6	268.7	245.9	22.84	11.764	
5,000.0	4,977.5	4,980.5	4,937.3	12.6	15.8	-87.35	-87.35	-145.7	-601.8	282.9	259.7	23.22	12.183	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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
5,100.0	5,077.5	5,079.4	5,035.1	12.8	16.1	-88.18		-149.3	-616.1	297.2	273.6	23.61	12.587	
5,200.0	5,177.5	5,185.2	5,139.8	12.9	16.5	-88.96		-153.0	-630.6	310.8	286.8	24.00	12.952	
5,300.0	5,277.5	5,296.5	5,250.5	13.1	16.7	-89.52		-155.9	-642.1	321.1	296.7	24.37	13.176	
5,400.0	5,377.5	5,408.5	5,362.3	13.3	16.9	-89.86		-157.8	-649.4	327.7	302.9	24.75	13.240	
5,500.0	5,477.5	5,521.0	5,474.7	13.5	17.1	-90.00		-158.6	-652.5	330.4	305.3	25.13	13.148	
5,600.0	5,577.5	5,623.9	5,577.5	13.7	17.2	-90.00		-158.6	-652.6	330.5	305.0	25.52	12.953	
5,700.0	5,677.5	5,723.9	5,677.5	13.9	17.4	-90.00		-158.6	-652.6	330.5	304.6	25.90	12.760	
5,800.0	5,777.5	5,823.9	5,777.5	14.0	17.5	-90.00		-158.6	-652.6	330.5	304.2	26.29	12.573	
5,900.0	5,877.5	5,923.9	5,877.5	14.2	17.7	-90.00		-158.6	-652.6	330.5	303.8	26.68	12.390	
6,000.0	5,977.5	6,023.9	5,977.5	14.4	17.8	-90.00		-158.6	-652.6	330.5	303.4	27.07	12.211	
6,100.0	6,077.5	6,123.9	6,077.5	14.6	18.0	-90.00		-158.6	-652.6	330.5	303.1	27.46	12.037	
6,200.0	6,177.5	6,223.9	6,177.5	14.8	18.1	-90.00		-158.6	-652.6	330.5	302.7	27.85	11.867	
6,300.0	6,277.5	6,323.9	6,277.5	15.0	18.3	-90.00		-158.6	-652.6	330.5	302.3	28.25	11.701	
6,400.0	6,377.5	6,423.9	6,377.5	15.2	18.5	-90.00		-158.6	-652.6	330.5	301.9	28.64	11.539	
6,500.0	6,477.5	6,523.9	6,477.5	15.4	18.6	-90.00		-158.6	-652.6	330.5	301.5	29.04	11.381	
6,600.0	6,577.5	6,623.9	6,577.5	15.6	18.8	-90.00		-158.6	-652.6	330.5	301.1	29.44	11.226	
6,700.0	6,677.5	6,723.9	6,677.5	15.8	18.9	-90.00		-158.6	-652.6	330.5	300.7	29.84	11.075	
6,800.0	6,777.5	6,823.9	6,777.5	16.0	19.1	-90.20		-158.6	-652.6	330.5	300.3	30.26	10.924	
6,900.0	6,876.9	6,924.1	6,877.1	16.1	19.2	-90.20		-148.9	-652.6	330.5	299.9	30.59	10.803	
7,000.0	6,972.6	7,024.3	6,973.0	16.3	19.3	-90.19		-120.4	-652.5	330.5	299.7	30.83	10.721	
7,100.0	7,061.2	7,124.5	7,061.7	16.4	19.4	-90.17		-74.0	-652.3	330.5	299.5	31.02	10.655	
7,200.0	7,139.3	7,224.7	7,139.8	16.4	19.4	-90.14		-11.6	-652.1	330.5	299.2	31.26	10.572	
7,300.0	7,204.1	7,324.8	7,204.6	16.5	19.5	-90.11		64.6	-651.8	330.5	298.8	31.68	10.434	
7,400.0	7,253.2	7,424.9	7,253.6	16.7	19.6	-90.08		151.7	-651.5	330.5	298.1	32.36	10.213	
7,500.0	7,284.8	7,525.0	7,285.0	17.0	19.8	-90.04		246.5	-651.2	330.5	297.1	33.39	9.899	
7,600.0	7,297.8	7,625.0	7,297.8	17.6	20.2	-90.00		345.6	-650.8	330.5	295.7	34.76	9.508	
7,700.0	7,297.7	7,725.0	7,297.7	18.5	20.8	-90.00		445.6	-650.5	330.5	294.0	36.47	9.063	
7,800.0	7,297.2	7,825.0	7,297.2	19.5	21.6	-90.00		545.6	-650.1	330.5	292.0	38.47	8.592	
7,900.0	7,296.7	7,925.0	7,296.7	20.6	22.6	-90.00		645.6	-649.8	330.5	289.8	40.73	8.115	
8,000.0	7,296.3	8,025.0	7,296.3	21.8	23.7	-90.00		745.6	-649.4	330.5	287.3	43.21	7.648	
8,100.0	7,295.8	8,125.0	7,295.8	23.1	24.9	-90.00		845.6	-649.1	330.5	284.6	45.88	7.203	
8,200.0	7,295.3	8,225.0	7,295.3	24.5	26.2	-90.00		945.6	-648.7	330.5	281.8	48.70	6.786	
8,300.0	7,294.9	8,325.0	7,294.8	26.0	27.5	-90.00		1,045.6	-648.4	330.5	278.8	51.66	6.398	
8,400.0	7,294.4	8,425.0	7,294.4	27.5	29.0	-90.00		1,145.6	-648.0	330.5	275.8	54.72	6.040	
8,500.0	7,293.9	8,525.0	7,293.9	29.1	30.5	-90.00		1,245.6	-647.6	330.5	272.6	57.87	5.711	
8,600.0	7,293.4	8,625.0	7,293.4	30.7	32.0	-90.00		1,345.6	-647.3	330.5	269.4	61.10	5.409	
8,700.0	7,293.0	8,725.0	7,293.0	32.4	33.6	-90.00		1,445.6	-646.9	330.5	266.1	64.40	5.132	
8,800.0	7,292.5	8,825.0	7,292.5	34.0	35.2	-90.00		1,545.6	-646.6	330.5	262.7	67.75	4.878	
8,900.0	7,292.0	8,925.0	7,292.0	35.7	36.9	-90.00		1,645.5	-646.2	330.5	259.3	71.15	4.645	
9,000.0	7,291.6	9,025.0	7,291.5	37.4	38.5	-90.00		1,745.5	-645.9	330.5	255.9	74.60	4.430	
9,100.0	7,291.1	9,125.0	7,291.1	39.2	40.2	-90.00		1,845.5	-645.5	330.5	252.4	78.07	4.233	
9,200.0	7,290.6	9,225.0	7,290.6	40.9	41.9	-90.00		1,945.5	-645.2	330.5	248.9	81.58	4.051	
9,300.0	7,290.2	9,325.0	7,290.1	42.7	43.6	-90.00		2,045.5	-644.8	330.5	245.4	85.12	3.883	
9,400.0	7,289.7	9,425.0	7,289.7	44.5	45.4	-90.00		2,145.5	-644.5	330.5	241.8	88.68	3.727	
9,500.0	7,289.2	9,525.0	7,289.2	46.2	47.1	-90.00		2,245.5	-644.1	330.5	238.2	92.26	3.582	
9,600.0	7,288.7	9,625.0	7,288.7	48.0	48.9	-90.00		2,345.5	-643.8	330.5	234.6	95.86	3.447	
9,700.0	7,288.3	9,725.0	7,288.2	49.8	50.7	-90.00		2,445.5	-643.4	330.5	231.0	99.48	3.322	
9,800.0	7,287.8	9,825.0	7,287.8	51.7	52.5	-90.00		2,545.5	-643.0	330.5	227.4	103.12	3.205	
9,900.0	7,287.3	9,925.0	7,287.3	53.5	54.3	-90.00		2,645.5	-642.7	330.5	223.7	106.76	3.095	
10,000.0	7,286.9	10,025.0	7,286.8	55.3	56.1	-90.00		2,745.5	-642.3	330.5	220.0	110.42	2.993	
10,100.0	7,286.4	10,125.0	7,286.4	57.1	57.9	-90.00		2,845.5	-642.0	330.5	216.4	114.09	2.897	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
10,200.0	7,285.9	10,225.0	7,285.9	59.0	59.7	-90.00	2,945.5	-641.6	330.5	212.7	117.77	2.806		
10,300.0	7,285.4	10,325.0	7,285.4	60.8	61.5	-90.00	3,045.5	-641.3	330.5	209.0	121.46	2.721		
10,400.0	7,285.0	10,425.0	7,284.9	62.7	63.3	-90.00	3,145.5	-640.9	330.5	205.3	125.16	2.640		
10,500.0	7,284.5	10,525.0	7,284.5	64.5	65.2	-90.00	3,245.5	-640.6	330.5	201.6	128.87	2.564		
10,600.0	7,284.0	10,625.0	7,284.0	66.4	67.0	-90.00	3,345.5	-640.2	330.5	197.9	132.58	2.493		
10,700.0	7,283.6	10,725.0	7,283.5	68.2	68.9	-90.00	3,445.5	-639.9	330.5	194.2	136.30	2.425		
10,800.0	7,283.1	10,825.0	7,283.1	70.1	70.7	-90.00	3,545.5	-639.5	330.5	190.4	140.02	2.360		
10,900.0	7,282.6	10,925.0	7,282.6	71.9	72.5	-90.00	3,645.5	-639.2	330.5	186.7	143.75	2.299		
11,000.0	7,282.1	11,025.0	7,282.1	73.8	74.4	-90.00	3,745.5	-638.8	330.5	183.0	147.49	2.241		
11,100.0	7,281.7	11,125.0	7,281.6	75.7	76.3	-90.00	3,845.5	-638.5	330.5	179.2	151.23	2.185		
11,200.0	7,281.2	11,225.0	7,281.2	77.5	78.1	-90.00	3,945.5	-638.1	330.5	175.5	154.97	2.132		
11,300.0	7,280.7	11,325.0	7,280.7	79.4	80.0	-90.00	4,045.5	-637.7	330.5	171.7	158.72	2.082		
11,400.0	7,280.3	11,425.0	7,280.2	81.3	81.8	-90.00	4,145.5	-637.4	330.5	168.0	162.47	2.034		
11,500.0	7,279.8	11,525.0	7,279.8	83.2	83.7	-90.00	4,245.5	-637.0	330.5	164.2	166.23	1.988		
11,600.0	7,279.3	11,625.0	7,279.3	85.0	85.6	-90.00	4,345.5	-636.7	330.5	160.5	169.99	1.944		
11,700.0	7,278.8	11,725.0	7,278.8	86.9	87.4	-90.00	4,445.5	-636.3	330.4	156.7	173.75	1.902		
11,800.0	7,278.4	11,825.0	7,278.3	88.8	89.3	-90.00	4,545.5	-636.0	330.4	152.9	177.51	1.862		
11,856.2	7,278.1	11,881.2	7,278.1	89.9	90.4	-90.00	4,601.7	-635.8	330.4	150.8	179.63	1.840		
11,879.2	7,278.0	11,899.4	7,278.0	90.3	90.7	-90.00	4,619.9	-635.7	330.5	150.1	180.40	1.832 SF		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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 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	0.0	0.0	0.0	0.0	-90.00		0.0	-14.0	14.0	14.0	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	-90.00		0.0	-14.0	14.0	13.8	0.22	62.309	
200.0	200.0	200.0	200.0	0.3	0.3	-90.00		0.0	-14.0	14.0	13.3	0.67	20.770	
300.0	300.0	300.0	300.0	0.6	0.6	-90.00		0.0	-14.0	14.0	12.9	1.12	12.462	
400.0	400.0	400.0	400.0	0.8	0.8	-90.00		0.0	-14.0	14.0	12.4	1.57	8.901	
500.0	500.0	500.0	500.0	1.0	1.0	-90.00		0.0	-14.0	14.0	12.0	2.02	6.923	
600.0	600.0	600.0	600.0	1.2	1.2	-90.00		0.0	-14.0	14.0	11.5	2.47	5.664	
700.0	700.0	700.0	700.0	1.5	1.5	-90.00		0.0	-14.0	14.0	11.1	2.92	4.793	
800.0	800.0	800.0	800.0	1.7	1.7	-90.00		0.0	-14.0	14.0	10.6	3.37	4.154	
900.0	900.0	900.0	900.0	1.9	1.9	-90.00		0.0	-14.0	14.0	10.2	3.82	3.665	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-90.00		0.0	-14.0	14.0	9.7	4.27	3.279	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-90.00		0.0	-14.0	14.0	9.3	4.72	2.967	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-90.00		0.0	-14.0	14.0	8.8	5.17	2.709 CC, ES	
1,300.0	1,300.0	1,299.5	1,299.5	2.8	2.8	-92.01		-0.5	-15.6	15.7	10.1	5.60	2.796	
1,400.0	1,400.0	1,398.8	1,398.8	3.0	3.0	-96.08		-2.2	-20.5	20.7	14.7	6.02	3.439	
1,500.0	1,500.0	1,497.7	1,497.2	3.2	3.2	17.48		-4.9	-28.7	27.6	21.1	6.41	4.296	
1,600.0	1,599.8	1,596.4	1,595.1	3.4	3.4	16.64		-8.7	-40.0	34.5	27.7	6.79	5.079	
1,700.0	1,699.5	1,695.9	1,693.6	3.6	3.7	16.93		-13.3	-53.7	40.5	33.3	7.18	5.647	
1,800.0	1,798.7	1,795.9	1,792.5	3.9	3.9	18.45		-17.9	-67.5	43.4	35.9	7.57	5.734	
1,900.0	1,897.9	1,895.8	1,891.4	4.1	4.2	20.22		-22.6	-81.4	45.4	37.4	8.00	5.677	
2,000.0	1,997.0	1,995.8	1,990.3	4.3	4.5	21.84		-27.2	-95.2	47.5	39.0	8.44	5.621	
2,100.0	2,096.1	2,095.8	2,089.2	4.6	4.8	23.32		-31.9	-109.1	49.5	40.6	8.90	5.567	
2,200.0	2,195.3	2,195.8	2,188.1	4.9	5.1	24.69		-36.5	-122.9	51.7	42.3	9.37	5.514	
2,300.0	2,294.4	2,295.7	2,287.0	5.2	5.5	25.94		-41.1	-136.8	53.8	43.9	9.85	5.463	
2,400.0	2,393.6	2,395.7	2,385.9	5.5	5.8	27.10		-45.8	-150.7	55.9	45.6	10.34	5.413	
2,500.0	2,492.7	2,495.7	2,484.8	5.7	6.1	28.17		-50.4	-164.5	58.1	47.3	10.83	5.364	
2,600.0	2,591.9	2,595.6	2,583.7	6.0	6.4	29.17		-55.1	-178.4	60.3	49.0	11.34	5.318	
2,700.0	2,691.0	2,695.6	2,682.6	6.4	6.8	30.09		-59.7	-192.2	62.5	50.7	11.86	5.273	
2,800.0	2,790.1	2,795.6	2,781.5	6.7	7.1	30.96		-64.3	-206.1	64.8	52.4	12.38	5.230	
2,900.0	2,889.3	2,895.5	2,880.3	7.0	7.5	31.76		-69.0	-219.9	67.0	54.1	12.91	5.188	
3,000.0	2,988.4	2,995.5	2,979.2	7.3	7.8	32.51		-73.6	-233.8	69.3	55.8	13.45	5.149	
3,100.0	3,087.6	3,095.5	3,078.1	7.6	8.1	33.22		-78.3	-247.6	71.5	57.5	14.00	5.111	
3,200.0	3,186.7	3,195.5	3,177.0	7.9	8.5	33.88		-82.9	-261.5	73.8	59.3	14.55	5.074	
3,300.0	3,285.9	3,295.4	3,275.9	8.2	8.8	34.50		-87.6	-275.4	76.1	61.0	15.10	5.039	
3,400.0	3,385.0	3,395.4	3,374.8	8.5	9.2	35.08		-92.2	-289.2	78.4	62.7	15.66	5.006	
3,500.0	3,484.1	3,495.4	3,473.7	8.9	9.5	35.63		-96.8	-303.1	80.7	64.5	16.22	4.974	
3,600.0	3,583.3	3,595.3	3,572.6	9.2	9.9	36.16		-101.5	-316.9	83.0	66.2	16.79	4.944	
3,700.0	3,682.4	3,695.3	3,671.5	9.5	10.2	36.65		-106.1	-330.8	85.3	68.0	17.36	4.915	
3,800.0	3,781.6	3,795.3	3,770.4	9.8	10.6	37.11		-110.8	-344.6	87.6	69.7	17.93	4.887	
3,900.0	3,880.7	3,895.3	3,869.3	10.2	10.9	37.56		-115.4	-358.5	90.0	71.5	18.51	4.861	
4,000.0	3,979.9	3,995.2	3,968.2	10.5	11.3	37.98		-120.1	-372.3	92.3	73.2	19.09	4.835	
4,100.0	4,079.0	4,095.2	4,067.1	10.8	11.6	38.38		-124.7	-386.2	94.6	75.0	19.67	4.811	
4,200.0	4,178.2	4,195.2	4,166.0	11.1	12.0	38.60		-129.3	-400.1	97.4	77.1	20.23	4.813	
4,300.0	4,277.7	4,295.0	4,264.8	11.3	12.3	37.76		-134.0	-413.9	102.5	81.9	20.64	4.966	
4,400.0	4,377.6	4,394.6	4,363.3	11.5	12.7	35.96		-138.6	-427.7	110.5	89.5	20.96	5.273	
4,500.0	4,477.5	4,493.9	4,461.5	11.7	13.1	33.51		-143.2	-441.5	121.5	100.3	21.19	5.733	
4,600.0	4,577.5	4,592.8	4,559.4	11.9	13.4	-85.36		-147.8	-455.2	134.7	113.3	21.41	6.293	
4,700.0	4,677.5	4,695.6	4,661.2	12.1	13.7	-87.50		-152.2	-468.3	147.3	125.6	21.69	6.791	
4,800.0	4,777.5	4,800.3	4,765.4	12.2	14.0	-88.88		-155.5	-478.3	156.7	134.7	21.99	7.125	
4,900.0	4,877.5	4,905.7	4,870.6	12.4	14.2	-89.67		-157.7	-484.6	162.7	140.4	22.33	7.286	
5,000.0	4,977.5	5,011.4	4,976.2	12.6	14.3	-89.99		-158.6	-487.3	165.2	142.5	22.69	7.282	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - Wellbore #1 - Plan #2 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	5,077.5	5,112.7	5,077.5	12.8	14.5	-90.00	-90.00	-158.6	-487.4	165.3	142.2	23.07	7.164	
5,200.0	5,177.5	5,212.7	5,177.5	12.9	14.6	-90.00	-90.00	-158.6	-487.4	165.3	141.8	23.46	7.046	
5,300.0	5,277.5	5,312.7	5,277.5	13.1	14.8	-90.00	-90.00	-158.6	-487.4	165.3	141.5	23.85	6.932	
5,400.0	5,377.5	5,412.7	5,377.5	13.3	15.0	-90.00	-90.00	-158.6	-487.4	165.3	141.1	24.24	6.820	
5,500.0	5,477.5	5,512.7	5,477.5	13.5	15.1	-90.00	-90.00	-158.6	-487.4	165.3	140.7	24.63	6.711	
5,600.0	5,577.5	5,612.7	5,577.5	13.7	15.3	-90.00	-90.00	-158.6	-487.4	165.3	140.3	25.02	6.606	
5,700.0	5,677.5	5,712.7	5,677.5	13.9	15.5	-90.00	-90.00	-158.6	-487.4	165.3	139.9	25.42	6.503	
5,800.0	5,777.5	5,812.7	5,777.5	14.0	15.6	-90.00	-90.00	-158.6	-487.4	165.3	139.5	25.82	6.403	
5,900.0	5,877.5	5,912.7	5,877.5	14.2	15.8	-90.00	-90.00	-158.6	-487.4	165.3	139.1	26.22	6.305	
6,000.0	5,977.5	6,012.7	5,977.5	14.4	16.0	-90.00	-90.00	-158.6	-487.4	165.3	138.7	26.62	6.210	
6,100.0	6,077.5	6,112.7	6,077.5	14.6	16.1	-90.00	-90.00	-158.6	-487.4	165.3	138.3	27.02	6.117	
6,200.0	6,177.5	6,212.7	6,177.5	14.8	16.3	-90.00	-90.00	-158.6	-487.4	165.3	137.9	27.43	6.027	
6,300.0	6,277.5	6,312.7	6,277.5	15.0	16.5	-90.00	-90.00	-158.6	-487.4	165.3	137.5	27.83	5.940	
6,400.0	6,377.5	6,412.7	6,377.5	15.2	16.7	-90.00	-90.00	-158.6	-487.4	165.3	137.1	28.24	5.854	
6,500.0	6,477.5	6,512.7	6,477.5	15.4	16.8	-90.00	-90.00	-158.6	-487.4	165.3	136.7	28.65	5.771	
6,600.0	6,577.5	6,612.7	6,577.5	15.6	17.0	-90.00	-90.00	-158.6	-487.4	165.3	136.2	29.06	5.689	
6,700.0	6,677.5	6,712.7	6,677.5	15.8	17.2	-90.00	-90.00	-158.6	-487.4	165.3	135.8	29.47	5.610	
6,766.6	6,744.1	6,779.3	6,744.1	15.9	17.3	-90.21	-90.21	-158.6	-487.4	165.3	135.6	29.75	5.557	
6,800.0	6,777.5	6,812.7	6,777.5	16.0	17.4	-90.20	-90.20	-158.6	-487.4	165.3	135.4	29.89	5.531	
6,823.2	6,800.7	6,835.9	6,800.7	16.0	17.4	-90.39	-90.39	-158.6	-487.4	165.3	135.3	29.97	5.516	
6,900.0	6,876.9	6,912.1	6,876.9	16.1	17.5	-93.47	-93.47	-158.6	-487.4	165.6	135.5	30.10	5.502	
7,000.0	6,972.6	7,007.8	6,972.6	16.3	17.7	-102.22	-102.22	-158.6	-487.4	169.8	139.7	30.01	5.656	
7,100.0	7,061.2	7,111.5	7,075.7	16.4	17.9	-113.27	-113.27	-149.2	-487.4	182.2	152.6	29.64	6.149	
7,200.0	7,139.3	7,225.4	7,184.4	16.4	18.0	-122.69	-122.69	-115.5	-487.3	200.4	171.6	28.80	6.959	
7,300.0	7,204.1	7,351.4	7,292.7	16.5	18.1	-130.13	-130.13	-52.0	-487.0	220.7	193.3	27.43	8.047	
7,400.0	7,253.2	7,490.6	7,390.9	16.7	18.2	-135.57	-135.57	46.1	-486.7	239.5	213.6	25.86	9.261	
7,500.0	7,284.8	7,642.2	7,464.2	17.0	18.4	-138.99	-138.99	178.2	-486.2	253.2	228.6	24.65	10.272	
7,600.0	7,297.8	7,802.3	7,497.1	17.6	19.0	-140.37	-140.37	334.3	-485.7	259.2	234.7	24.47	10.592	
7,700.0	7,297.7	7,913.8	7,497.6	18.5	19.8	-140.41	-140.41	445.7	-485.3	259.4	233.9	25.47	10.185	
7,800.0	7,297.2	8,013.8	7,497.2	19.5	20.7	-140.43	-140.43	545.7	-484.9	259.5	232.7	26.75	9.698	
7,900.0	7,296.7	8,113.8	7,496.9	20.6	21.7	-140.45	-140.45	645.7	-484.6	259.6	231.3	28.24	9.192	
8,000.0	7,296.3	8,213.8	7,496.5	21.8	22.9	-140.46	-140.46	745.7	-484.2	259.7	229.8	29.89	8.687	
8,100.0	7,295.8	8,313.8	7,496.2	23.1	24.1	-140.48	-140.48	845.7	-483.8	259.7	228.1	31.68	8.199	
8,200.0	7,295.3	8,413.8	7,495.8	24.5	25.5	-140.50	-140.50	945.7	-483.5	259.8	226.2	33.59	7.735	
8,300.0	7,294.9	8,513.8	7,495.5	26.0	26.9	-140.52	-140.52	1,045.7	-483.1	259.9	224.3	35.60	7.301	
8,400.0	7,294.4	8,613.8	7,495.1	27.5	28.4	-140.53	-140.53	1,145.7	-482.8	260.0	222.3	37.69	6.899	
8,500.0	7,293.9	8,713.8	7,494.8	29.1	29.9	-140.55	-140.55	1,245.7	-482.4	260.1	220.3	39.85	6.527	
8,600.0	7,293.4	8,813.8	7,494.4	30.7	31.5	-140.57	-140.57	1,345.7	-482.1	260.2	218.1	42.07	6.185	
8,700.0	7,293.0	8,913.8	7,494.1	32.4	33.1	-140.58	-140.58	1,445.7	-481.7	260.3	216.0	44.34	5.871	
8,800.0	7,292.5	9,013.8	7,493.7	34.0	34.7	-140.60	-140.60	1,545.7	-481.4	260.4	213.7	46.65	5.582	
8,900.0	7,292.0	9,113.8	7,493.4	35.7	36.4	-140.62	-140.62	1,645.7	-481.0	260.5	211.5	48.99	5.317	
9,000.0	7,291.6	9,213.8	7,493.0	37.4	38.0	-140.64	-140.64	1,745.7	-480.7	260.6	209.2	51.37	5.073	
9,100.0	7,291.1	9,313.8	7,492.7	39.2	39.7	-140.65	-140.65	1,845.7	-480.3	260.7	206.9	53.77	4.848	
9,200.0	7,290.6	9,413.8	7,492.3	40.9	41.5	-140.67	-140.67	1,945.7	-480.0	260.8	204.6	56.20	4.640	
9,300.0	7,290.2	9,513.8	7,492.0	42.7	43.2	-140.69	-140.69	2,045.7	-479.6	260.9	202.2	58.64	4.448	
9,400.0	7,289.7	9,613.8	7,491.6	44.5	45.0	-140.71	-140.71	2,145.7	-479.2	261.0	199.9	61.10	4.271	
9,500.0	7,289.2	9,713.8	7,491.3	46.2	46.7	-140.72	-140.72	2,245.7	-478.9	261.0	197.5	63.58	4.106	
9,600.0	7,288.7	9,813.8	7,490.9	48.0	48.5	-140.74	-140.74	2,345.7	-478.5	261.1	195.1	66.07	3.952	
9,700.0	7,288.3	9,913.8	7,490.6	49.8	50.3	-140.76	-140.76	2,445.7	-478.2	261.2	192.7	68.57	3.810	
9,800.0	7,287.8	10,013.8	7,490.2	51.7	52.1	-140.78	-140.78	2,545.7	-477.8	261.3	190.2	71.09	3.676	
9,900.0	7,287.3	10,113.8	7,489.9	53.5	53.9	-140.79	-140.79	2,645.7	-477.5	261.4	187.8	73.61	3.552	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - Wellbore #1 - Plan #2 (8												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,000.0	7,286.9	10,213.8	7,489.5	55.3	55.7	-140.81	2,745.7	-477.1	261.5	185.4	76.14	3.435	
10,100.0	7,286.4	10,313.8	7,489.2	57.1	57.5	-140.83	2,845.7	-476.8	261.6	182.9	78.67	3.325	
10,200.0	7,285.9	10,413.8	7,488.8	59.0	59.4	-140.84	2,945.7	-476.4	261.7	180.5	81.22	3.222	
10,300.0	7,285.4	10,513.8	7,488.5	60.8	61.2	-140.86	3,045.7	-476.1	261.8	178.0	83.76	3.125	
10,400.0	7,285.0	10,613.8	7,488.1	62.7	63.0	-140.88	3,145.6	-475.7	261.9	175.6	86.32	3.034	
10,500.0	7,284.5	10,713.8	7,487.8	64.5	64.9	-140.90	3,245.6	-475.3	262.0	173.1	88.87	2.948	
10,600.0	7,284.0	10,813.8	7,487.4	66.4	66.7	-140.91	3,345.6	-475.0	262.1	170.6	91.44	2.866	
10,700.0	7,283.6	10,913.8	7,487.1	68.2	68.6	-140.93	3,445.6	-474.6	262.2	168.2	94.00	2.789	
10,800.0	7,283.1	11,013.8	7,486.7	70.1	70.4	-140.95	3,545.6	-474.3	262.3	165.7	96.57	2.716	
10,900.0	7,282.6	11,113.8	7,486.4	71.9	72.3	-140.96	3,645.6	-473.9	262.4	163.2	99.14	2.646	
11,000.0	7,282.1	11,213.8	7,486.0	73.8	74.1	-140.98	3,745.6	-473.6	262.5	160.7	101.71	2.580	
11,100.0	7,281.7	11,313.8	7,485.7	75.7	76.0	-141.00	3,845.6	-473.2	262.5	158.3	104.29	2.518	
11,200.0	7,281.2	11,413.8	7,485.4	77.5	77.8	-141.02	3,945.6	-472.9	262.6	155.8	106.87	2.458	
11,300.0	7,280.7	11,513.8	7,485.0	79.4	79.7	-141.03	4,045.6	-472.5	262.7	153.3	109.44	2.401	
11,400.0	7,280.3	11,613.8	7,484.7	81.3	81.6	-141.05	4,145.6	-472.2	262.8	150.8	112.02	2.346	
11,500.0	7,279.8	11,713.8	7,484.3	83.2	83.4	-141.07	4,245.6	-471.8	262.9	148.3	114.61	2.294	
11,600.0	7,279.3	11,813.8	7,484.0	85.0	85.3	-141.08	4,345.6	-471.5	263.0	145.8	117.19	2.244	
11,700.0	7,278.8	11,913.8	7,483.6	86.9	87.2	-141.10	4,445.6	-471.1	263.1	143.3	119.77	2.197	
11,800.0	7,278.4	12,013.8	7,483.3	88.8	89.1	-141.12	4,545.6	-470.7	263.2	140.8	122.36	2.151	
11,843.2	7,278.2	12,057.0	7,483.1	89.6	89.9	-141.13	4,588.9	-470.6	263.2	139.8	123.48	2.132	
11,879.2	7,278.0	12,088.1	7,483.0	90.3	90.5	-141.13	4,619.9	-470.5	263.3	139.0	124.34	2.118 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design		Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8										Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	14.0	14.0	14.0	0.00	N/A	
100.0	100.0	99.0	99.0	0.1	0.1	90.02	0.0	14.0	14.0	13.8	0.22	62.622	
200.0	200.0	199.0	199.0	0.3	0.3	90.02	0.0	14.0	14.0	13.3	0.67	20.839	
300.0	300.0	299.0	299.0	0.6	0.6	90.02	0.0	14.0	14.0	12.9	1.12	12.487	
400.0	400.0	399.0	399.0	0.8	0.8	90.02	0.0	14.0	14.0	12.4	1.57	8.914	
500.0	500.0	499.0	499.0	1.0	1.0	90.02	0.0	14.0	14.0	12.0	2.02	6.931	
600.0	600.0	599.0	599.0	1.2	1.2	90.02	0.0	14.0	14.0	11.5	2.47	5.670	
700.0	700.0	699.0	699.0	1.5	1.5	90.02	0.0	14.0	14.0	11.1	2.92	4.797	
800.0	800.0	799.0	799.0	1.7	1.7	90.02	0.0	14.0	14.0	10.6	3.37	4.157	
900.0	900.0	899.0	899.0	1.9	1.9	90.02	0.0	14.0	14.0	10.2	3.82	3.667	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	90.02	0.0	14.0	14.0	9.7	4.27	3.281	
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.4	90.02	0.0	14.0	14.0	9.3	4.72	2.969	
1,200.0	1,200.0	1,199.0	1,199.0	2.6	2.6	90.02	0.0	14.0	14.0	8.8	5.17	2.710	
1,300.0	1,300.0	1,299.0	1,299.0	2.8	2.8	90.02	0.0	14.0	14.0	8.4	5.62	2.493	
1,400.0	1,400.0	1,399.0	1,399.0	3.0	3.0	90.02	0.0	14.0	14.0	7.9	6.07	2.309 CC	
1,500.0	1,500.0	1,499.0	1,499.0	3.2	3.3	-156.59	0.0	14.0	15.6	9.1	6.49	2.401	
1,600.0	1,599.8	1,598.8	1,598.8	3.4	3.5	-162.38	0.0	14.0	20.5	13.6	6.90	2.972	
1,700.0	1,699.5	1,699.1	1,699.1	3.6	3.7	-166.34	-0.9	13.1	27.8	20.5	7.27	3.823	
1,800.0	1,798.7	1,799.5	1,799.4	3.9	3.9	-167.77	-3.5	10.2	36.2	28.6	7.63	4.742	
1,900.0	1,897.9	1,900.1	1,899.8	4.1	4.1	-167.32	-8.0	5.3	43.2	35.2	8.02	5.392	
2,000.0	1,997.0	2,001.1	2,000.3	4.3	4.3	-165.45	-14.2	-1.5	48.0	39.6	8.42	5.701	
2,100.0	2,096.1	2,101.7	2,100.2	4.6	4.5	-162.46	-22.0	-10.1	50.8	41.9	8.84	5.743	
2,200.0	2,195.3	2,201.6	2,199.4	4.9	4.7	-159.50	-30.2	-19.0	53.3	44.0	9.28	5.743	
2,300.0	2,294.4	2,301.5	2,298.6	5.2	4.9	-156.82	-38.3	-27.9	55.9	46.2	9.74	5.745	
2,400.0	2,393.6	2,401.4	2,397.9	5.5	5.2	-154.38	-46.4	-36.8	58.7	48.5	10.21	5.749	
2,500.0	2,492.7	2,501.4	2,497.1	5.7	5.5	-152.17	-54.5	-45.7	61.5	50.8	10.70	5.752	
2,600.0	2,591.9	2,601.3	2,596.3	6.0	5.7	-150.15	-62.6	-54.6	64.5	53.3	11.20	5.755	
2,700.0	2,691.0	2,701.2	2,695.5	6.4	6.0	-148.31	-70.7	-63.5	67.5	55.8	11.72	5.757	
2,800.0	2,790.1	2,801.2	2,794.7	6.7	6.3	-146.63	-78.9	-72.4	70.6	58.3	12.25	5.758	
2,900.0	2,889.3	2,901.1	2,893.9	7.0	6.5	-145.10	-87.0	-81.3	73.7	60.9	12.80	5.758	
3,000.0	2,988.4	3,001.0	2,993.1	7.3	6.8	-143.68	-95.1	-90.1	76.9	63.5	13.35	5.758	
3,100.0	3,087.6	3,101.0	3,092.3	7.6	7.1	-142.38	-103.2	-99.0	80.1	66.2	13.91	5.756	
3,200.0	3,186.7	3,200.9	3,191.5	7.9	7.4	-141.18	-111.3	-107.9	83.3	68.9	14.48	5.755	
3,300.0	3,285.9	3,300.8	3,290.7	8.2	7.7	-140.08	-119.5	-116.8	86.6	71.6	15.06	5.753	
3,400.0	3,385.0	3,400.8	3,389.9	8.5	8.0	-139.05	-127.6	-125.7	89.9	74.3	15.64	5.751	
3,500.0	3,484.1	3,500.7	3,489.1	8.9	8.3	-138.10	-135.7	-134.6	93.3	77.1	16.23	5.748	
3,600.0	3,583.3	3,600.0	3,587.7	9.2	8.6	-137.37	-143.6	-143.2	96.8	80.0	16.81	5.762	
3,700.0	3,682.4	3,698.6	3,685.8	9.5	8.8	-137.77	-149.9	-150.1	101.5	84.2	17.29	5.871	
3,800.0	3,781.6	3,796.9	3,783.9	9.8	9.0	-139.29	-154.5	-155.2	107.6	89.9	17.72	6.074	
3,900.0	3,880.7	3,894.9	3,881.8	10.2	9.2	-141.67	-157.4	-158.3	115.3	97.2	18.09	6.371	
4,000.0	3,979.9	3,992.4	3,979.3	10.5	9.4	-144.66	-158.6	-159.7	124.7	106.3	18.42	6.769	
4,100.0	4,079.0	4,091.1	4,078.0	10.8	9.6	-147.82	-158.6	-159.7	135.5	116.8	18.73	7.236	
4,200.0	4,178.2	4,190.3	4,177.2	11.1	9.8	-150.49	-158.6	-159.7	146.4	127.3	19.06	7.679	
4,300.0	4,277.7	4,289.8	4,276.7	11.3	10.0	-152.30	-158.6	-159.7	154.7	135.3	19.39	7.980	
4,400.0	4,377.6	4,389.7	4,376.6	11.5	10.2	-153.35	-158.6	-159.7	160.1	140.3	19.73	8.113	
4,500.0	4,477.5	4,489.6	4,476.5	11.7	10.4	-153.77	-158.6	-159.7	162.3	142.2	20.08	8.085	
4,600.0	4,577.5	4,589.6	4,576.5	11.9	10.5	90.00	-158.6	-159.7	162.4	142.0	20.45	7.941	
4,700.0	4,677.5	4,689.6	4,676.5	12.1	10.7	90.00	-158.6	-159.7	162.4	141.6	20.85	7.790	
4,800.0	4,777.5	4,789.6	4,776.5	12.2	10.9	90.00	-158.6	-159.7	162.4	141.2	21.24	7.645	
4,900.0	4,877.5	4,889.6	4,876.5	12.4	11.1	90.00	-158.6	-159.7	162.4	140.8	21.64	7.504	
5,000.0	4,977.5	4,989.6	4,976.5	12.6	11.3	90.00	-158.6	-159.7	162.4	140.4	22.04	7.367	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - Wellbore #1 - Plan #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	5,077.5	5,089.6	5,076.5	12.8	11.5	90.00	-158.6	-159.7	162.4	140.0	22.45	7.235		
5,200.0	5,177.5	5,189.6	5,176.5	12.9	11.7	90.00	-158.6	-159.7	162.4	139.6	22.85	7.107		
5,300.0	5,277.5	5,289.6	5,276.5	13.1	11.9	90.00	-158.6	-159.7	162.4	139.1	23.26	6.982		
5,400.0	5,377.5	5,389.6	5,376.5	13.3	12.1	90.00	-158.6	-159.7	162.4	138.7	23.67	6.862		
5,500.0	5,477.5	5,489.6	5,476.5	13.5	12.3	90.00	-158.6	-159.7	162.4	138.3	24.08	6.745		
5,600.0	5,577.5	5,589.6	5,576.5	13.7	12.5	90.00	-158.6	-159.7	162.4	137.9	24.49	6.632		
5,700.0	5,677.5	5,689.6	5,676.5	13.9	12.8	90.00	-158.6	-159.7	162.4	137.5	24.90	6.522		
5,800.0	5,777.5	5,789.6	5,776.5	14.0	13.0	90.00	-158.6	-159.7	162.4	137.1	25.31	6.416		
5,900.0	5,877.5	5,889.6	5,876.5	14.2	13.2	90.00	-158.6	-159.7	162.4	136.7	25.73	6.312		
6,000.0	5,977.5	5,989.6	5,976.5	14.4	13.4	90.00	-158.6	-159.7	162.4	136.3	26.14	6.212		
6,100.0	6,077.5	6,089.6	6,076.5	14.6	13.6	90.00	-158.6	-159.7	162.4	135.8	26.56	6.114		
6,200.0	6,177.5	6,189.6	6,176.5	14.8	13.8	90.00	-158.6	-159.7	162.4	135.4	26.98	6.020		
6,300.0	6,277.5	6,289.6	6,276.5	15.0	14.0	90.00	-158.6	-159.7	162.4	135.0	27.40	5.928		
6,400.0	6,377.5	6,389.6	6,376.5	15.2	14.2	90.00	-158.6	-159.7	162.4	134.6	27.82	5.838		
6,500.0	6,477.5	6,489.6	6,476.5	15.4	14.4	90.00	-158.6	-159.7	162.4	134.2	28.24	5.751		
6,600.0	6,577.5	6,589.6	6,576.5	15.6	14.6	90.00	-158.6	-159.7	162.4	133.7	28.66	5.666		
6,624.0	6,601.5	6,613.6	6,600.5	15.6	14.7	89.90	-158.3	-159.7	162.4	133.6	28.76	5.648		
6,700.0	6,677.5	6,689.0	6,675.6	15.8	14.8	87.77	-152.3	-159.7	162.6	133.6	28.99	5.607		
6,800.0	6,777.5	6,784.8	6,769.4	16.0	15.0	80.94	-133.3	-159.6	164.6	135.4	29.19	5.640		
6,900.0	6,876.9	6,877.0	6,856.6	16.1	15.1	73.19	-103.3	-159.5	170.0	140.7	29.30	5.801		
7,000.0	6,972.6	6,968.0	6,938.1	16.3	15.2	67.76	-63.0	-159.3	175.8	146.4	29.32	5.994		
7,100.0	7,061.2	7,058.2	7,013.3	16.4	15.3	64.54	-13.2	-159.1	180.1	150.9	29.20	6.166		
7,200.0	7,139.3	7,150.0	7,082.6	16.4	15.4	63.38	46.8	-158.9	181.8	152.7	29.07	6.253		
7,300.0	7,204.1	7,237.9	7,141.4	16.5	15.6	64.22	112.1	-158.6	180.6	151.4	29.21	6.183		
7,400.0	7,253.2	7,328.1	7,192.9	16.7	15.9	67.09	186.0	-158.3	176.7	146.8	29.92	5.908		
7,500.0	7,284.8	7,418.9	7,235.0	17.0	16.5	72.15	266.4	-157.9	171.2	139.8	31.38	5.456		
7,600.0	7,297.8	7,510.9	7,266.9	17.6	17.1	79.51	352.7	-157.6	165.7	132.2	33.48	4.948		
7,700.0	7,297.7	7,605.8	7,288.0	18.5	18.0	86.94	445.1	-157.2	163.0	127.3	35.73	4.562		
7,763.7	7,297.4	7,668.6	7,295.1	19.1	18.6	89.55	507.5	-157.0	162.8	125.7	37.12	4.386		
7,800.0	7,297.2	7,704.9	7,296.7	19.5	19.0	90.18	543.7	-156.8	162.8	124.9	37.88	4.298		
7,900.0	7,296.7	7,804.9	7,296.4	20.6	20.2	90.25	643.7	-156.4	162.9	122.7	40.18	4.054		
8,000.0	7,296.3	7,904.9	7,296.0	21.8	21.4	90.24	743.7	-156.0	162.9	120.2	42.69	3.817		
8,100.0	7,295.8	8,004.9	7,295.5	23.1	22.8	90.23	843.7	-155.6	163.0	117.6	45.38	3.592		
8,200.0	7,295.3	8,104.9	7,295.0	24.5	24.2	90.23	943.7	-155.2	163.1	114.8	48.23	3.381		
8,300.0	7,294.9	8,204.9	7,294.5	26.0	25.7	90.22	1,043.7	-154.7	163.1	111.9	51.21	3.185		
8,400.0	7,294.4	8,304.9	7,294.0	27.5	27.2	90.21	1,143.7	-154.3	163.2	108.9	54.29	3.005		
8,500.0	7,293.9	8,404.9	7,293.5	29.1	28.8	90.21	1,243.7	-153.9	163.2	105.8	57.47	2.841		
8,600.0	7,293.4	8,504.9	7,293.0	30.7	30.4	90.20	1,343.7	-153.5	163.3	102.6	60.71	2.690		
8,700.0	7,293.0	8,604.9	7,292.5	32.4	32.1	90.20	1,443.7	-153.1	163.4	99.3	64.03	2.551		
8,800.0	7,292.5	8,704.9	7,292.0	34.0	33.7	90.19	1,543.7	-152.7	163.4	96.0	67.39	2.425		
8,900.0	7,292.0	8,804.9	7,291.6	35.7	35.4	90.18	1,643.7	-152.3	163.5	92.7	70.81	2.309		
9,000.0	7,291.6	8,904.9	7,291.1	37.4	37.2	90.18	1,743.7	-151.9	163.5	89.3	74.26	2.202		
9,100.0	7,291.1	9,004.9	7,290.6	39.2	38.9	90.17	1,843.7	-151.5	163.6	85.8	77.75	2.104		
9,200.0	7,290.6	9,104.9	7,290.1	40.9	40.7	90.16	1,943.7	-151.0	163.6	82.4	81.27	2.014		
9,300.0	7,290.2	9,204.9	7,289.6	42.7	42.4	90.16	2,043.7	-150.6	163.7	78.9	84.82	1.930		
9,400.0	7,289.7	9,304.9	7,289.1	44.5	44.2	90.15	2,143.7	-150.2	163.8	75.4	88.39	1.853		
9,500.0	7,289.2	9,404.9	7,288.6	46.2	46.0	90.15	2,243.7	-149.8	163.8	71.8	91.98	1.781		
9,600.0	7,288.7	9,504.9	7,288.1	48.0	47.8	90.14	2,343.7	-149.4	163.9	68.3	95.59	1.714		
9,700.0	7,288.3	9,604.9	7,287.6	49.8	49.6	90.13	2,443.7	-149.0	163.9	64.7	99.21	1.652		
9,800.0	7,287.8	9,704.9	7,287.2	51.7	51.5	90.13	2,543.7	-148.6	164.0	61.1	102.85	1.595		
9,900.0	7,287.3	9,804.9	7,286.7	53.5	53.3	90.12	2,643.7	-148.2	164.1	57.6	106.51	1.540		

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - Wellbore #1 - Plan #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	
10,000.0	7,286.9	9,904.9	7,286.2	55.3	55.1	90.12	2,743.7	-147.8	164.1	53.9	110.17	1.490	Level 3	
10,100.0	7,286.4	10,004.9	7,285.7	57.1	56.9	90.11	2,843.7	-147.3	164.2	50.3	113.85	1.442	Level 3	
10,200.0	7,285.9	10,104.9	7,285.2	59.0	58.8	90.10	2,943.7	-146.9	164.2	46.7	117.53	1.397	Level 3	
10,300.0	7,285.4	10,204.9	7,284.7	60.8	60.6	90.10	3,043.7	-146.5	164.3	43.1	121.23	1.355	Level 3	
10,400.0	7,285.0	10,304.9	7,284.2	62.7	62.5	90.09	3,143.7	-146.1	164.4	39.4	124.93	1.316	Level 3	
10,500.0	7,284.5	10,404.9	7,283.7	64.5	64.3	90.08	3,243.7	-145.7	164.4	35.8	128.64	1.278	Level 3	
10,600.0	7,284.0	10,504.9	7,283.3	66.4	66.2	90.08	3,343.7	-145.3	164.5	32.1	132.36	1.243	Level 2	
10,700.0	7,283.6	10,604.9	7,282.8	68.2	68.1	90.07	3,443.7	-144.9	164.5	28.5	136.08	1.209	Level 2	
10,800.0	7,283.1	10,704.9	7,282.3	70.1	69.9	90.07	3,543.7	-144.5	164.6	24.8	139.81	1.177	Level 2	
10,900.0	7,282.6	10,804.9	7,281.8	71.9	71.8	90.06	3,643.7	-144.1	164.7	21.1	143.54	1.147	Level 2	
11,000.0	7,282.1	10,904.9	7,281.3	73.8	73.7	90.05	3,743.7	-143.6	164.7	17.4	147.28	1.118	Level 2	
11,100.0	7,281.7	11,004.9	7,280.8	75.7	75.5	90.05	3,843.7	-143.2	164.8	13.7	151.02	1.091	Level 2	
11,200.0	7,281.2	11,104.9	7,280.3	77.5	77.4	90.04	3,943.7	-142.8	164.8	10.1	154.77	1.065	Level 2	
11,300.0	7,280.7	11,204.9	7,279.8	79.4	79.3	90.04	4,043.7	-142.4	164.9	6.4	158.52	1.040	Level 2	
11,400.0	7,280.3	11,304.9	7,279.3	81.3	81.1	90.03	4,143.7	-142.0	164.9	2.7	162.28	1.016	Level 2	
11,500.0	7,279.8	11,404.9	7,278.9	83.2	83.0	90.02	4,243.7	-141.6	165.0	-1.0	166.03	0.994	Level 1	
11,600.0	7,279.3	11,504.9	7,278.4	85.0	84.9	90.02	4,343.7	-141.2	165.1	-4.7	169.80	0.972	Level 1	
11,700.0	7,278.8	11,604.9	7,277.9	86.9	86.8	90.01	4,443.7	-140.8	165.1	-8.4	173.56	0.951	Level 1	
11,800.0	7,278.4	11,704.9	7,277.4	88.8	88.7	90.01	4,543.7	-140.3	165.2	-12.1	177.33	0.932	Level 1	
11,879.2	7,278.0	11,784.1	7,277.0	90.3	90.2	90.00	4,622.8	-140.0	165.2	-15.1	180.31	0.916	Level 1, ES, SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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 (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00		0.0	30.8	30.8				
100.0	100.0	99.0	99.0	0.1	0.1	90.00		0.0	30.8	30.8	30.6	0.22	137.768	
200.0	200.0	199.0	199.0	0.3	0.3	90.00		0.0	30.8	30.8	30.1	0.67	45.846	
300.0	300.0	299.0	299.0	0.6	0.6	90.00		0.0	30.8	30.8	29.7	1.12	27.471	
400.0	400.0	399.0	399.0	0.8	0.8	90.00		0.0	30.8	30.8	29.2	1.57	19.611	
500.0	500.0	499.0	499.0	1.0	1.0	90.00		0.0	30.8	30.8	28.8	2.02	15.248	
600.0	600.0	599.0	599.0	1.2	1.2	90.00		0.0	30.8	30.8	28.3	2.47	12.473	
700.0	700.0	699.0	699.0	1.5	1.5	90.00		0.0	30.8	30.8	27.9	2.92	10.553	
800.0	800.0	799.0	799.0	1.7	1.7	90.00		0.0	30.8	30.8	27.4	3.37	9.145	
900.0	900.0	899.0	899.0	1.9	1.9	90.00		0.0	30.8	30.8	27.0	3.82	8.068	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	90.00		0.0	30.8	30.8	26.5	4.27	7.219	
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.4	90.00		0.0	30.8	30.8	26.1	4.72	6.531	
1,200.0	1,200.0	1,199.0	1,199.0	2.6	2.6	90.00		0.0	30.8	30.8	25.6	5.17	5.963	
1,300.0	1,300.0	1,299.0	1,299.0	2.8	2.8	90.00		0.0	30.8	30.8	25.2	5.62	5.485	
1,400.0	1,400.0	1,399.0	1,399.0	3.0	3.0	90.00		0.0	30.8	30.8	24.7	6.07	5.079 CC, ES	
1,500.0	1,500.0	1,499.0	1,499.0	3.2	3.3	-155.14		0.0	30.8	32.4	25.9	6.49	4.988	
1,600.0	1,599.8	1,598.8	1,598.8	3.4	3.5	-158.49		0.0	30.8	37.2	30.3	6.90	5.393	
1,700.0	1,699.5	1,698.5	1,698.5	3.6	3.7	-162.47		0.0	30.8	45.4	38.1	7.30	6.223	
1,800.0	1,798.7	1,797.7	1,797.7	3.9	3.9	-166.09		0.0	30.8	57.1	49.4	7.70	7.409	
1,900.0	1,897.9	1,896.9	1,896.9	4.1	4.2	-168.66		0.0	30.8	69.8	61.7	8.12	8.594	
2,000.0	1,997.0	1,996.0	1,996.0	4.3	4.4	-170.44		0.0	30.8	82.7	74.1	8.55	9.668	
2,100.0	2,096.1	2,095.1	2,095.1	4.6	4.6	-171.74		0.0	30.8	95.6	86.6	8.98	10.641	
2,200.0	2,195.3	2,194.3	2,194.3	4.9	4.8	-172.73		0.0	30.8	108.5	99.1	9.42	11.526	
2,300.0	2,294.4	2,293.4	2,293.4	5.2	5.0	-173.51		0.0	30.8	121.5	111.7	9.85	12.331	
2,400.0	2,393.6	2,392.6	2,392.6	5.5	5.3	-174.14		0.0	30.8	134.5	124.2	10.29	13.066	
2,500.0	2,492.7	2,491.7	2,491.7	5.7	5.5	-174.66		0.0	30.8	147.5	136.8	10.74	13.740	
2,600.0	2,591.9	2,592.8	2,592.8	6.0	5.7	-174.75		-1.1	30.6	160.0	148.8	11.16	14.337	
2,700.0	2,691.0	2,694.4	2,694.3	6.4	5.9	-174.05		-4.9	30.0	171.1	159.6	11.56	14.809	
2,800.0	2,790.1	2,796.1	2,795.8	6.7	6.0	-172.68		-11.3	29.0	181.0	169.1	11.96	15.135	
2,900.0	2,889.3	2,897.1	2,896.4	7.0	6.2	-170.78		-20.2	27.5	189.9	177.5	12.38	15.341	
3,000.0	2,988.4	2,996.5	2,995.3	7.3	6.4	-168.91		-29.6	26.0	198.7	185.9	12.80	15.515	
3,100.0	3,087.6	3,095.9	3,094.3	7.6	6.6	-167.20		-39.0	24.5	207.6	194.4	13.24	15.678	
3,200.0	3,186.7	3,195.3	3,193.2	7.9	6.8	-165.64		-48.4	22.9	216.8	203.1	13.69	15.831	
3,300.0	3,285.9	3,294.7	3,292.2	8.2	7.0	-164.20		-57.8	21.4	226.1	211.9	14.15	15.973	
3,400.0	3,385.0	3,394.1	3,391.1	8.5	7.2	-162.87		-67.2	19.9	235.5	220.9	14.62	16.105	
3,500.0	3,484.1	3,493.5	3,490.1	8.9	7.4	-161.65		-76.6	18.4	245.0	229.9	15.10	16.227	
3,600.0	3,583.3	3,592.9	3,589.0	9.2	7.7	-160.51		-85.9	16.8	254.7	239.1	15.58	16.340	
3,700.0	3,682.4	3,692.4	3,688.0	9.5	7.9	-159.47		-95.3	15.3	264.4	248.3	16.08	16.445	
3,800.0	3,781.6	3,791.8	3,787.0	9.8	8.1	-158.49		-104.7	13.8	274.2	257.6	16.58	16.542	
3,900.0	3,880.7	3,891.2	3,885.9	10.2	8.4	-157.58		-114.1	12.3	284.1	267.0	17.08	16.631	
4,000.0	3,979.9	3,990.6	3,984.9	10.5	8.6	-156.74		-123.5	10.7	294.0	276.4	17.59	16.714	
4,100.0	4,079.0	4,090.0	4,083.8	10.8	8.8	-155.95		-132.9	9.2	304.0	285.9	18.11	16.791	
4,200.0	4,178.2	4,188.7	4,182.1	11.1	9.1	-155.27		-141.9	7.7	313.7	295.1	18.63	16.843	
4,300.0	4,277.7	4,286.9	4,280.1	11.3	9.3	-154.82		-148.7	6.6	321.1	302.0	19.09	16.816	
4,400.0	4,377.6	4,385.3	4,378.4	11.5	9.5	-154.54		-153.1	5.9	325.7	306.2	19.52	16.685	
4,500.0	4,477.5	4,483.8	4,476.9	11.7	9.7	-154.42		-154.9	5.6	327.7	307.8	19.90	16.462	
4,600.0	4,577.5	4,583.5	4,576.5	11.9	9.9	89.37		-155.0	5.6	327.7	307.4	20.28	16.158	
4,700.0	4,677.5	4,683.5	4,676.5	12.1	10.1	89.37		-155.0	5.6	327.7	307.0	20.68	15.847	
4,800.0	4,777.5	4,783.5	4,776.5	12.2	10.3	89.37		-155.0	5.6	327.7	306.6	21.08	15.546	
4,900.0	4,877.5	4,883.5	4,876.5	12.4	10.6	89.37		-155.0	5.6	327.7	306.2	21.48	15.255	
5,000.0	4,977.5	4,983.5	4,976.5	12.6	10.8	89.37		-155.0	5.6	327.7	305.8	21.89	14.973	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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	
5,100.0	5,077.5	5,083.5	5,076.5	12.8	11.0	89.37	-155.0	5.6	327.7	305.4	22.29	14.700		
5,200.0	5,177.5	5,183.5	5,176.5	12.9	11.2	89.37	-155.0	5.6	327.7	305.0	22.70	14.436		
5,300.0	5,277.5	5,283.5	5,276.5	13.1	11.4	89.37	-155.0	5.6	327.7	304.6	23.11	14.180		
5,400.0	5,377.5	5,383.5	5,376.5	13.3	11.6	89.37	-155.0	5.6	327.7	304.2	23.52	13.933		
5,500.0	5,477.5	5,483.5	5,476.5	13.5	11.8	89.37	-155.0	5.6	327.7	303.8	23.93	13.693		
5,600.0	5,577.5	5,583.5	5,576.5	13.7	12.0	89.37	-155.0	5.6	327.7	303.4	24.35	13.460		
5,700.0	5,677.5	5,683.5	5,676.5	13.9	12.2	89.37	-155.0	5.6	327.7	303.0	24.76	13.235		
5,800.0	5,777.5	5,783.5	5,776.5	14.0	12.4	89.37	-155.0	5.6	327.7	302.6	25.18	13.016		
5,900.0	5,877.5	5,883.5	5,876.5	14.2	12.7	89.37	-155.0	5.6	327.7	302.1	25.60	12.804		
6,000.0	5,977.5	5,983.5	5,976.5	14.4	12.9	89.37	-155.0	5.6	327.7	301.7	26.01	12.598		
6,100.0	6,077.5	6,083.5	6,076.5	14.6	13.1	89.37	-155.0	5.6	327.7	301.3	26.43	12.399		
6,200.0	6,177.5	6,183.5	6,176.5	14.8	13.3	89.37	-155.0	5.6	327.7	300.9	26.85	12.205		
6,300.0	6,277.5	6,283.5	6,276.5	15.0	13.5	89.37	-155.0	5.6	327.7	300.5	27.27	12.016		
6,400.0	6,377.5	6,383.5	6,376.5	15.2	13.7	89.37	-155.0	5.6	327.7	300.0	27.70	11.833		
6,500.0	6,477.5	6,483.5	6,476.5	15.4	13.9	89.37	-155.0	5.6	327.7	299.6	28.12	11.655		
6,600.0	6,577.5	6,583.5	6,576.5	15.6	14.2	89.37	-155.0	5.6	327.7	299.2	28.54	11.482		
6,700.0	6,677.5	6,682.3	6,675.0	15.8	14.4	88.28	-148.8	5.6	327.9	299.0	28.92	11.338		
6,800.0	6,777.5	6,777.6	6,768.4	16.0	14.5	84.80	-130.0	5.7	329.2	299.9	29.22	11.265		
6,900.0	6,876.9	6,869.3	6,855.2	16.1	14.6	80.84	-100.3	5.8	332.1	302.7	29.43	11.284		
7,000.0	6,972.6	6,959.9	6,936.4	16.3	14.7	77.94	-60.4	6.0	335.3	305.7	29.59	11.331		
7,100.0	7,061.2	7,050.0	7,011.6	16.4	14.9	76.17	-10.9	6.2	337.6	307.9	29.72	11.358		
7,200.0	7,139.3	7,139.3	7,079.4	16.4	15.1	75.56	47.2	6.4	338.5	308.6	29.93	11.308		
7,300.0	7,204.1	7,228.8	7,139.5	16.5	15.4	76.10	113.3	6.7	337.8	307.4	30.36	11.125		
7,400.0	7,253.2	7,318.6	7,191.2	16.7	15.8	77.81	186.8	7.0	335.6	304.4	31.14	10.777		
7,500.0	7,284.8	7,409.2	7,233.5	17.0	16.3	80.64	266.7	7.3	332.5	300.2	32.34	10.283		
7,600.0	7,297.8	7,500.0	7,265.5	17.6	17.0	84.51	351.7	7.7	329.6	295.7	33.92	9.716		
7,700.0	7,297.7	7,595.5	7,287.3	18.5	17.9	88.36	444.6	8.1	328.2	292.4	35.81	9.165		
7,757.6	7,297.4	7,652.2	7,294.3	19.0	18.4	89.63	500.8	8.3	328.1	291.1	37.00	8.868		
7,800.0	7,297.2	7,694.5	7,296.6	19.5	18.9	90.07	543.0	8.5	328.1	290.2	37.89	8.660		
7,900.0	7,296.7	7,794.5	7,296.5	20.6	20.1	90.13	643.1	8.9	328.2	288.0	40.19	8.165		
8,000.0	7,296.3	7,894.5	7,296.0	21.8	21.3	90.12	743.1	9.3	328.2	285.5	42.71	7.685		
8,100.0	7,295.8	7,994.5	7,295.5	23.1	22.7	90.12	843.1	9.7	328.3	282.9	45.41	7.229		
8,200.0	7,295.3	8,094.5	7,295.0	24.5	24.1	90.12	943.1	10.1	328.3	280.1	48.26	6.803		
8,300.0	7,294.9	8,194.5	7,294.5	26.0	25.6	90.11	1,043.0	10.5	328.4	277.1	51.24	6.408		
8,400.0	7,294.4	8,294.5	7,294.0	27.5	27.2	90.11	1,143.0	10.9	328.4	274.1	54.33	6.045		
8,500.0	7,293.9	8,394.5	7,293.5	29.1	28.7	90.11	1,243.0	11.3	328.5	271.0	57.51	5.712		
8,600.0	7,293.4	8,494.5	7,293.0	30.7	30.4	90.10	1,343.0	11.8	328.6	267.8	60.76	5.407		
8,700.0	7,293.0	8,594.5	7,292.6	32.4	32.0	90.10	1,443.0	12.2	328.6	264.5	64.08	5.129		
8,800.0	7,292.5	8,694.5	7,292.1	34.0	33.7	90.10	1,543.0	12.6	328.7	261.2	67.45	4.873		
8,900.0	7,292.0	8,794.5	7,291.6	35.7	35.4	90.09	1,643.0	13.0	328.7	257.9	70.86	4.639		
9,000.0	7,291.6	8,894.5	7,291.1	37.4	37.2	90.09	1,743.0	13.4	328.8	254.5	74.32	4.424		
9,100.0	7,291.1	8,994.5	7,290.6	39.2	38.9	90.09	1,843.0	13.8	328.8	251.0	77.81	4.226		
9,200.0	7,290.6	9,094.5	7,290.1	40.9	40.7	90.09	1,943.0	14.2	328.9	247.6	81.33	4.044		
9,300.0	7,290.2	9,194.5	7,289.6	42.7	42.4	90.08	2,043.0	14.6	329.0	244.1	84.88	3.876		
9,400.0	7,289.7	9,294.5	7,289.1	44.5	44.2	90.08	2,143.0	15.0	329.0	240.6	88.45	3.720		
9,500.0	7,289.2	9,394.5	7,288.6	46.2	46.0	90.08	2,243.0	15.4	329.1	237.0	92.04	3.575		
9,600.0	7,288.7	9,494.5	7,288.2	48.0	47.8	90.07	2,343.0	15.9	329.1	233.5	95.65	3.441		
9,700.0	7,288.3	9,594.5	7,287.7	49.8	49.6	90.07	2,443.0	16.3	329.2	229.9	99.28	3.316		
9,800.0	7,287.8	9,694.5	7,287.2	51.7	51.5	90.07	2,543.0	16.7	329.2	226.3	102.92	3.199		
9,900.0	7,287.3	9,794.5	7,286.7	53.5	53.3	90.06	2,643.0	17.1	329.3	222.7	106.58	3.090		
10,000.0	7,286.9	9,894.5	7,286.2	55.3	55.1	90.06	2,743.0	17.5	329.4	219.1	110.24	2.988		

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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	
10,100.0	7,286.4	9,994.5	7,285.7	57.1	57.0	90.06	2,843.0	17.9	329.4	215.5	113.92	2.892		
10,200.0	7,285.9	10,094.5	7,285.2	59.0	58.8	90.06	2,943.0	18.3	329.5	211.9	117.61	2.802		
10,300.0	7,285.4	10,194.5	7,284.7	60.8	60.7	90.05	3,043.0	18.7	329.5	208.2	121.30	2.717		
10,400.0	7,285.0	10,294.5	7,284.2	62.7	62.5	90.05	3,143.0	19.1	329.6	204.6	125.00	2.637		
10,500.0	7,284.5	10,394.5	7,283.8	64.5	64.4	90.05	3,243.0	19.5	329.7	200.9	128.72	2.561		
10,600.0	7,284.0	10,494.5	7,283.3	66.4	66.2	90.04	3,343.0	19.9	329.7	197.3	132.43	2.490		
10,700.0	7,283.6	10,594.5	7,282.8	68.2	68.1	90.04	3,443.0	20.4	329.8	193.6	136.16	2.422		
10,800.0	7,283.1	10,694.5	7,282.3	70.1	70.0	90.04	3,543.0	20.8	329.8	189.9	139.88	2.358		
10,900.0	7,282.6	10,794.5	7,281.8	71.9	71.8	90.03	3,643.0	21.2	329.9	186.3	143.62	2.297		
11,000.0	7,282.1	10,894.5	7,281.3	73.8	73.7	90.03	3,743.0	21.6	329.9	182.6	147.36	2.239		
11,100.0	7,281.7	10,994.5	7,280.8	75.7	75.6	90.03	3,843.0	22.0	330.0	178.9	151.10	2.184		
11,200.0	7,281.2	11,094.5	7,280.3	77.5	77.4	90.02	3,943.0	22.4	330.1	175.2	154.85	2.131		
11,300.0	7,280.7	11,194.5	7,279.9	79.4	79.3	90.02	4,043.0	22.8	330.1	171.5	158.60	2.081		
11,400.0	7,280.3	11,294.5	7,279.4	81.3	81.2	90.02	4,143.0	23.2	330.2	167.8	162.36	2.034		
11,500.0	7,279.8	11,394.5	7,278.9	83.2	83.1	90.02	4,243.0	23.6	330.2	164.1	166.11	1.988		
11,600.0	7,279.3	11,494.5	7,278.4	85.0	85.0	90.01	4,343.0	24.0	330.3	160.4	169.88	1.944		
11,700.0	7,278.8	11,594.5	7,277.9	86.9	86.8	90.01	4,443.0	24.5	330.3	156.7	173.64	1.902		
11,800.0	7,278.4	11,694.5	7,277.4	88.8	88.7	90.01	4,543.0	24.9	330.4	153.0	177.41	1.862		
11,879.2	7,278.0	11,773.7	7,277.0	90.3	90.2	90.00	4,622.2	25.2	330.4	150.1	180.39	1.832 SF		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00	90.00	0.0	44.8	44.8				
100.0	100.0	99.0	99.0	0.1	0.1	90.00	90.00	0.0	44.8	44.8	44.6	0.22	200.390	
200.0	200.0	199.0	199.0	0.3	0.3	90.00	90.00	0.0	44.8	44.8	44.1	0.67	66.685	
300.0	300.0	299.0	299.0	0.6	0.6	90.00	90.00	0.0	44.8	44.8	43.7	1.12	39.958	
400.0	400.0	399.0	399.0	0.8	0.8	90.00	90.00	0.0	44.8	44.8	43.2	1.57	28.525	
500.0	500.0	499.0	499.0	1.0	1.0	90.00	90.00	0.0	44.8	44.8	42.8	2.02	22.179	
600.0	600.0	599.0	599.0	1.2	1.2	90.00	90.00	0.0	44.8	44.8	42.3	2.47	18.143	
700.0	700.0	699.0	699.0	1.5	1.5	90.00	90.00	0.0	44.8	44.8	41.9	2.92	15.349	
800.0	800.0	799.0	799.0	1.7	1.7	90.00	90.00	0.0	44.8	44.8	41.4	3.37	13.301	
900.0	900.0	899.0	899.0	1.9	1.9	90.00	90.00	0.0	44.8	44.8	41.0	3.82	11.736	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	90.00	90.00	0.0	44.8	44.8	40.5	4.27	10.500	
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.4	90.00	90.00	0.0	44.8	44.8	40.1	4.72	9.499	
1,200.0	1,200.0	1,199.0	1,199.0	2.6	2.6	90.00	90.00	0.0	44.8	44.8	39.6	5.17	8.673	
1,300.0	1,300.0	1,299.0	1,299.0	2.8	2.8	90.00	90.00	0.0	44.8	44.8	39.2	5.62	7.979	
1,400.0	1,400.0	1,399.0	1,399.0	3.0	3.0	90.00	90.00	0.0	44.8	44.8	38.7	6.07	7.388 CC, ES	
1,500.0	1,500.0	1,499.0	1,499.0	3.2	3.3	-154.72	-154.72	0.0	44.8	46.4	39.9	6.49	7.144	
1,600.0	1,599.8	1,598.8	1,598.8	3.4	3.5	-157.19	-157.19	0.0	44.8	51.2	44.3	6.90	7.418	
1,700.0	1,699.5	1,698.5	1,698.5	3.6	3.7	-160.40	-160.40	0.0	44.8	59.3	52.0	7.30	8.124	
1,800.0	1,798.7	1,797.7	1,797.7	3.9	3.9	-163.63	-163.63	0.0	44.8	70.8	63.1	7.70	9.191	
1,900.0	1,897.9	1,895.9	1,895.9	4.1	4.1	-165.40	-165.40	-0.9	45.6	84.0	75.9	8.10	10.367	
2,000.0	1,997.0	1,993.8	1,993.7	4.3	4.3	-165.36	-165.36	-3.8	47.9	98.4	89.9	8.48	11.593	
2,100.0	2,096.1	2,091.3	2,091.0	4.6	4.5	-164.20	-164.20	-8.6	51.8	113.9	105.1	8.88	12.833	
2,200.0	2,195.3	2,188.2	2,187.6	4.9	4.7	-162.36	-162.36	-15.3	57.3	130.8	121.5	9.29	14.084	
2,300.0	2,294.4	2,285.7	2,284.5	5.2	4.9	-160.25	-160.25	-23.6	64.0	148.8	139.1	9.71	15.329	
2,400.0	2,393.6	2,383.9	2,382.0	5.5	5.1	-158.52	-158.52	-32.2	71.0	167.2	157.0	10.15	16.476	
2,500.0	2,492.7	2,482.1	2,479.6	5.7	5.3	-157.13	-157.13	-40.7	77.9	185.7	175.1	10.60	17.523	
2,600.0	2,591.9	2,580.3	2,577.2	6.0	5.5	-155.99	-155.99	-49.2	84.8	204.2	193.2	11.05	18.475	
2,700.0	2,691.0	2,678.5	2,674.7	6.4	5.8	-155.04	-155.04	-57.8	91.8	222.8	211.3	11.52	19.345	
2,800.0	2,790.1	2,776.7	2,772.3	6.7	6.0	-154.24	-154.24	-66.3	98.7	241.5	229.5	11.99	20.139	
2,900.0	2,889.3	2,874.9	2,869.9	7.0	6.3	-153.55	-153.55	-74.9	105.7	260.2	247.7	12.47	20.864	
3,000.0	2,988.4	2,973.1	2,967.5	7.3	6.5	-152.96	-152.96	-83.4	112.6	278.9	266.0	12.96	21.529	
3,100.0	3,087.6	3,071.2	3,065.0	7.6	6.8	-152.44	-152.44	-91.9	119.6	297.7	284.2	13.45	22.140	
3,200.0	3,186.7	3,169.4	3,162.6	7.9	7.1	-151.98	-151.98	-100.5	126.5	316.5	302.5	13.94	22.702	
3,300.0	3,285.9	3,267.6	3,260.2	8.2	7.3	-151.57	-151.57	-109.0	133.5	335.3	320.8	14.44	23.219	
3,400.0	3,385.0	3,365.8	3,357.7	8.5	7.6	-151.21	-151.21	-117.6	140.4	354.1	339.1	14.94	23.698	
3,500.0	3,484.1	3,464.0	3,455.3	8.9	7.9	-150.88	-150.88	-126.1	147.3	372.9	357.5	15.45	24.141	
3,600.0	3,583.3	3,562.2	3,552.9	9.2	8.1	-150.58	-150.58	-134.7	154.3	391.8	375.8	15.96	24.552	
3,700.0	3,682.4	3,666.5	3,656.7	9.5	8.4	-150.40	-150.40	-143.0	161.1	410.0	393.5	16.46	24.911	
3,800.0	3,781.6	3,773.0	3,762.8	9.8	8.7	-150.52	-150.52	-149.3	166.2	426.5	409.5	16.95	25.160	
3,900.0	3,880.7	3,880.0	3,869.7	10.2	8.9	-150.92	-150.92	-153.3	169.4	441.1	423.6	17.43	25.308	
4,000.0	3,979.9	3,987.4	3,977.1	10.5	9.1	-151.58	-151.58	-154.9	170.8	453.9	436.0	17.89	25.365	
4,100.0	4,079.0	4,088.3	4,078.0	10.8	9.3	-152.36	-152.36	-155.0	170.8	465.5	447.1	18.34	25.383	
4,200.0	4,178.2	4,187.5	4,177.2	11.1	9.5	-153.11	-153.11	-155.0	170.8	476.7	457.9	18.79	25.367	
4,300.0	4,277.7	4,287.1	4,276.7	11.3	9.7	-153.69	-153.69	-155.0	170.8	485.2	466.0	19.21	25.251	
4,400.0	4,377.6	4,386.9	4,376.6	11.5	9.9	-154.05	-154.05	-155.0	170.8	490.6	471.0	19.62	25.005	
4,500.0	4,477.5	4,486.8	4,476.5	11.7	10.1	-154.20	-154.20	-155.0	170.8	492.8	472.8	20.00	24.639	
4,600.0	4,577.5	4,586.8	4,576.5	11.9	10.3	89.58	89.58	-155.0	170.8	492.9	472.5	20.39	24.174	
4,700.0	4,677.5	4,686.8	4,676.5	12.1	10.5	89.58	89.58	-155.0	170.8	492.9	472.1	20.79	23.711	
4,800.0	4,777.5	4,786.8	4,776.5	12.2	10.7	89.58	89.58	-155.0	170.8	492.9	471.7	21.19	23.264	
4,900.0	4,877.5	4,886.8	4,876.5	12.4	10.9	89.58	89.58	-155.0	170.8	492.9	471.3	21.59	22.831	
5,000.0	4,977.5	4,986.8	4,976.5	12.6	11.1	89.58	89.58	-155.0	170.8	492.9	470.9	21.99	22.412	

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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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	5,077.5	5,086.8	5,076.5	12.8	11.3	89.58		-155.0	170.8	492.9	470.5	22.40	22.006	
5,200.0	5,177.5	5,186.8	5,176.5	12.9	11.5	89.58		-155.0	170.8	492.9	470.1	22.81	21.613	
5,300.0	5,277.5	5,286.8	5,276.5	13.1	11.7	89.58		-155.0	170.8	492.9	469.7	23.22	21.233	
5,400.0	5,377.5	5,386.8	5,376.5	13.3	11.9	89.58		-155.0	170.8	492.9	469.3	23.63	20.864	
5,500.0	5,477.5	5,486.8	5,476.5	13.5	12.1	89.58		-155.0	170.8	492.9	468.9	24.04	20.507	
5,600.0	5,577.5	5,586.8	5,576.5	13.7	12.3	89.58		-155.0	170.8	492.9	468.5	24.45	20.161	
5,700.0	5,677.5	5,686.8	5,676.5	13.9	12.5	89.58		-155.0	170.8	492.9	468.1	24.86	19.825	
5,800.0	5,777.5	5,786.8	5,776.5	14.0	12.7	89.58		-155.0	170.8	492.9	467.6	25.28	19.499	
5,900.0	5,877.5	5,886.8	5,876.5	14.2	13.0	89.58		-155.0	170.8	492.9	467.2	25.70	19.183	
6,000.0	5,977.5	5,986.8	5,976.5	14.4	13.2	89.58		-155.0	170.8	492.9	466.8	26.11	18.876	
6,100.0	6,077.5	6,086.8	6,076.5	14.6	13.4	89.58		-155.0	170.8	492.9	466.4	26.53	18.578	
6,200.0	6,177.5	6,186.8	6,176.5	14.8	13.6	89.58		-155.0	170.8	492.9	466.0	26.95	18.289	
6,300.0	6,277.5	6,286.8	6,276.5	15.0	13.8	89.58		-155.0	170.8	492.9	465.6	27.37	18.008	
6,400.0	6,377.5	6,386.8	6,376.5	15.2	14.0	89.58		-155.0	170.8	492.9	465.1	27.79	17.735	
6,500.0	6,477.5	6,486.8	6,476.5	15.4	14.2	89.58		-155.0	170.8	492.9	464.7	28.22	17.470	
6,600.0	6,577.5	6,586.8	6,576.5	15.6	14.4	89.58		-155.0	170.8	492.9	464.3	28.64	17.212	
6,700.0	6,677.5	6,686.8	6,676.5	15.8	14.7	89.58		-155.0	170.8	492.9	463.9	29.06	16.960	
6,800.0	6,777.5	6,786.8	6,776.5	16.0	14.9	89.58		-155.0	170.8	492.9	463.4	29.49	16.715	
6,900.0	6,876.9	6,886.2	6,875.6	16.1	15.1	89.76		-148.7	170.8	492.9	463.0	29.86	16.505	
6,921.3	6,897.8	6,907.4	6,896.6	16.2	15.1	89.92		-145.6	170.9	492.9	463.0	29.93	16.469	
7,000.0	6,972.6	6,986.0	6,973.3	16.3	15.2	90.76		-128.6	170.9	493.0	462.8	30.15	16.349	
7,100.0	7,061.2	7,086.9	7,068.2	16.4	15.4	92.32		-94.8	171.1	493.4	463.0	30.39	16.233	
7,200.0	7,139.3	7,189.2	7,158.7	16.4	15.5	94.42		-47.1	171.3	494.5	463.9	30.64	16.138	
7,300.0	7,204.1	7,293.8	7,243.2	16.5	15.6	96.96		14.3	171.5	496.9	466.0	30.97	16.046	
7,400.0	7,253.2	7,401.2	7,319.7	16.7	15.8	99.88		89.6	171.8	501.2	469.7	31.44	15.939	
7,500.0	7,284.8	7,512.5	7,386.2	17.0	16.3	103.06		178.7	172.2	507.8	475.6	32.15	15.794	
7,600.0	7,297.8	7,628.8	7,440.1	17.6	16.9	106.42		281.6	172.6	517.2	484.0	33.15	15.599	
7,700.0	7,297.7	7,753.9	7,478.6	18.5	17.9	110.23		400.5	173.1	527.4	493.0	34.41	15.329	
7,800.0	7,297.2	7,889.9	7,496.4	19.5	19.2	112.09		535.1	173.6	532.4	496.1	36.29	14.671	
7,900.0	7,296.7	7,997.9	7,496.6	20.6	20.5	112.15		643.1	174.1	532.7	494.2	38.48	13.844	
8,000.0	7,296.3	8,097.9	7,496.2	21.8	21.7	112.16		743.1	174.5	532.8	492.0	40.80	13.058	
8,100.0	7,295.8	8,197.9	7,495.9	23.1	23.0	112.17		843.1	174.9	532.9	489.6	43.30	12.307	
8,200.0	7,295.3	8,297.9	7,495.5	24.5	24.4	112.18		943.1	175.3	533.0	487.0	45.94	11.601	
8,300.0	7,294.9	8,397.9	7,495.1	26.0	25.9	112.18		1,043.1	175.7	533.1	484.4	48.70	10.945	
8,400.0	7,294.4	8,497.9	7,494.8	27.5	27.4	112.19		1,143.1	176.1	533.1	481.6	51.56	10.339	
8,500.0	7,293.9	8,597.9	7,494.4	29.1	29.0	112.20		1,243.1	176.6	533.2	478.7	54.51	9.782	
8,600.0	7,293.4	8,697.9	7,494.0	30.7	30.6	112.21		1,343.1	177.0	533.3	475.8	57.53	9.270	
8,700.0	7,293.0	8,797.9	7,493.7	32.4	32.2	112.22		1,443.1	177.4	533.4	472.8	60.61	8.800	
8,800.0	7,292.5	8,897.9	7,493.3	34.0	33.9	112.22		1,543.1	177.8	533.5	469.8	63.75	8.369	
8,900.0	7,292.0	8,997.9	7,492.9	35.7	35.6	112.23		1,643.1	178.2	533.6	466.7	66.93	7.973	
9,000.0	7,291.6	9,097.9	7,492.6	37.4	37.3	112.24		1,743.1	178.6	533.7	463.6	70.14	7.609	
9,100.0	7,291.1	9,197.9	7,492.2	39.2	39.1	112.25		1,843.1	179.0	533.8	460.4	73.39	7.273	
9,200.0	7,290.6	9,297.9	7,491.8	40.9	40.8	112.26		1,943.1	179.4	533.9	457.2	76.67	6.963	
9,300.0	7,290.2	9,397.9	7,491.5	42.7	42.6	112.26		2,043.1	179.8	534.0	454.0	79.98	6.677	
9,400.0	7,289.7	9,497.9	7,491.1	44.5	44.4	112.27		2,143.1	180.2	534.1	450.8	83.31	6.411	
9,500.0	7,289.2	9,597.9	7,490.7	46.2	46.2	112.28		2,243.1	180.7	534.2	447.5	86.66	6.164	
9,600.0	7,288.7	9,697.9	7,490.4	48.0	47.9	112.29		2,343.1	181.1	534.3	444.2	90.02	5.935	
9,700.0	7,288.3	9,797.9	7,490.0	49.8	49.8	112.30		2,443.1	181.5	534.4	441.0	93.40	5.721	
9,800.0	7,287.8	9,897.9	7,489.6	51.7	51.6	112.30		2,543.1	181.9	534.5	437.7	96.80	5.521	
9,900.0	7,287.3	9,997.9	7,489.3	53.5	53.4	112.31		2,643.1	182.3	534.5	434.3	100.21	5.334	
10,000.0	7,286.9	10,097.9	7,488.9	55.3	55.2	112.32		2,743.1	182.7	534.6	431.0	103.63	5.159	

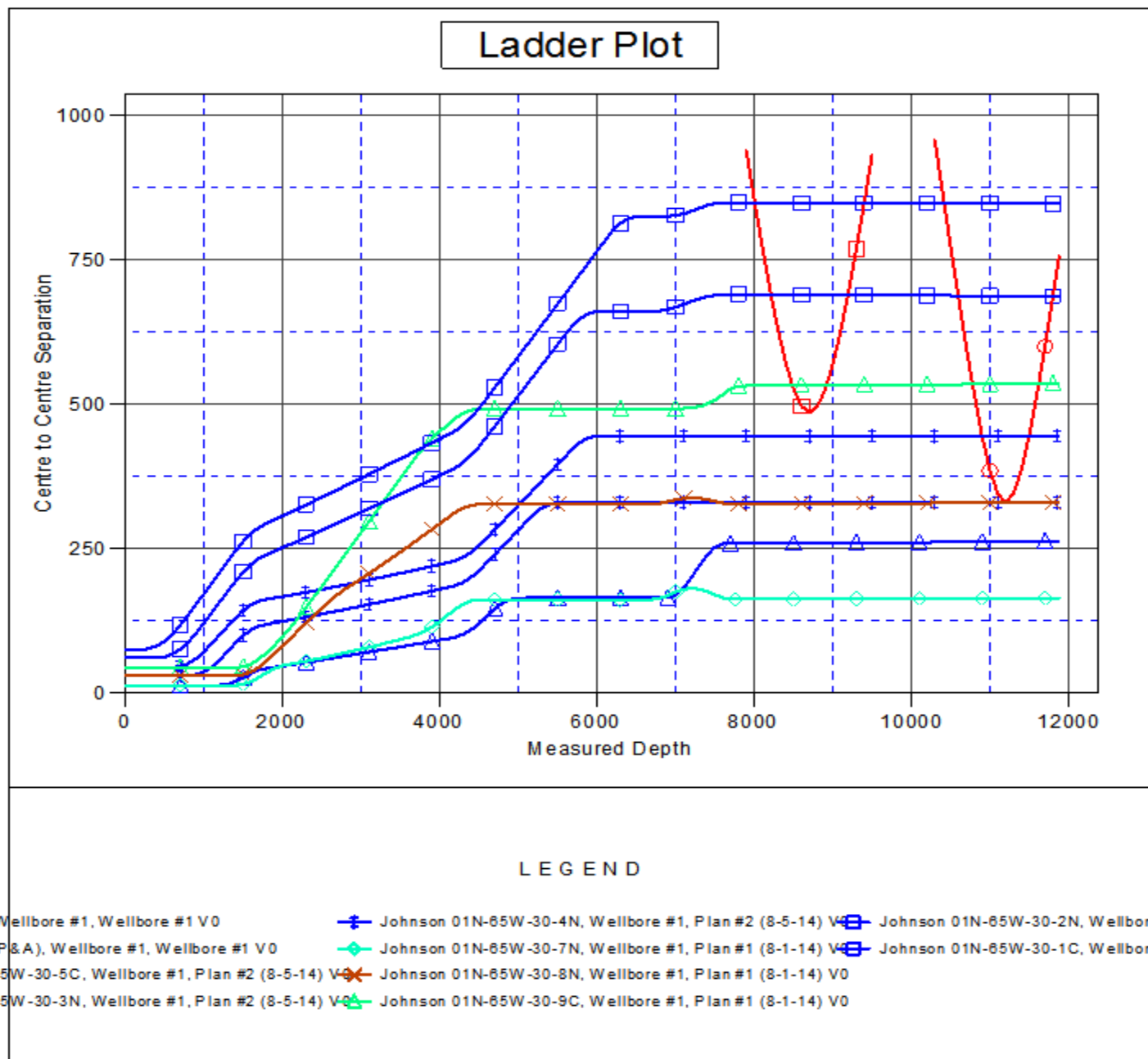
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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 Reference	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.0	7,286.4	10,197.9	7,488.5	57.1	57.1	112.33	112.33	2,843.1	183.1	534.7	427.7	107.05	4.995	
10,200.0	7,285.9	10,297.9	7,488.2	59.0	58.9	112.34	112.34	2,943.1	183.5	534.8	424.3	110.49	4.840	
10,300.0	7,285.4	10,397.9	7,487.8	60.8	60.7	112.34	112.34	3,043.1	183.9	534.9	421.0	113.94	4.695	
10,400.0	7,285.0	10,497.9	7,487.4	62.7	62.6	112.35	112.35	3,143.1	184.4	535.0	417.6	117.39	4.557	
10,500.0	7,284.5	10,597.9	7,487.1	64.5	64.4	112.36	112.36	3,243.1	184.8	535.1	414.3	120.86	4.428	
10,600.0	7,284.0	10,697.9	7,486.7	66.4	66.3	112.37	112.37	3,343.1	185.2	535.2	410.9	124.32	4.305	
10,700.0	7,283.6	10,797.9	7,486.3	68.2	68.1	112.38	112.38	3,443.1	185.6	535.3	407.5	127.80	4.189	
10,800.0	7,283.1	10,897.9	7,486.0	70.1	70.0	112.38	112.38	3,543.1	186.0	535.4	404.1	131.28	4.078	
10,900.0	7,282.6	10,997.9	7,485.6	71.9	71.9	112.39	112.39	3,643.1	186.4	535.5	400.7	134.76	3.974	
11,000.0	7,282.1	11,097.9	7,485.2	73.8	73.7	112.40	112.40	3,743.1	186.8	535.6	397.3	138.25	3.874	
11,100.0	7,281.7	11,197.9	7,484.9	75.7	75.6	112.41	112.41	3,843.1	187.2	535.7	393.9	141.74	3.779	
11,200.0	7,281.2	11,297.9	7,484.5	77.5	77.5	112.42	112.42	3,943.1	187.6	535.8	390.5	145.23	3.689	
11,300.0	7,280.7	11,397.9	7,484.1	79.4	79.3	112.42	112.42	4,043.1	188.0	535.9	387.1	148.73	3.603	
11,400.0	7,280.3	11,497.9	7,483.8	81.3	81.2	112.43	112.43	4,143.1	188.5	536.0	383.7	152.23	3.521	
11,500.0	7,279.8	11,597.9	7,483.4	83.2	83.1	112.44	112.44	4,243.1	188.9	536.0	380.3	155.74	3.442	
11,600.0	7,279.3	11,697.9	7,483.0	85.0	85.0	112.45	112.45	4,343.1	189.3	536.1	376.9	159.25	3.367	
11,700.0	7,278.8	11,797.9	7,482.7	86.9	86.9	112.46	112.46	4,443.0	189.7	536.2	373.5	162.76	3.295	
11,800.0	7,278.4	11,897.9	7,482.3	88.8	88.7	112.46	112.46	4,543.0	190.1	536.3	370.1	166.27	3.226	
11,879.2	7,278.0	11,977.2	7,482.0	90.3	90.2	112.47	112.47	4,622.3	190.4	536.4	367.3	169.05	3.173 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	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 @ 5013.0ft (Original Well Elev) Coordinates are relative to: Johnson 01N-65W-30-6N
 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-30-6N
Project:	SEC.30-T1N-R65W	TVD Reference:	WELL @ 5013.0ft (Original Well Elev)
Reference Site:	Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Johnson 01N-65W-30-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
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