Verdad Oil & Gas Corporation

Well Name: **Johnson 01N-65W-30-5C**

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

North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

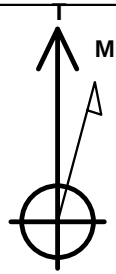
Ground Elevation: 5000.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1249523.07	3221340.54	40.015620	-104.709740	

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	-1261.6	Polygon
460' Setback SHL	1.0	251.4	-1261.6	Polygon
Sectionline	1.0	-208.6	-1261.6	Polygon
SHL 205'FSL & 1794'FWL	1.0	0.0	0.0	Point
Lehl 1 300' Circle	7.0	1449.5	-789.0	Circle (Radius: 300.0)
BHL 460'FNL & 1320'FWL	7483.0	4619.2	-456.5	Point



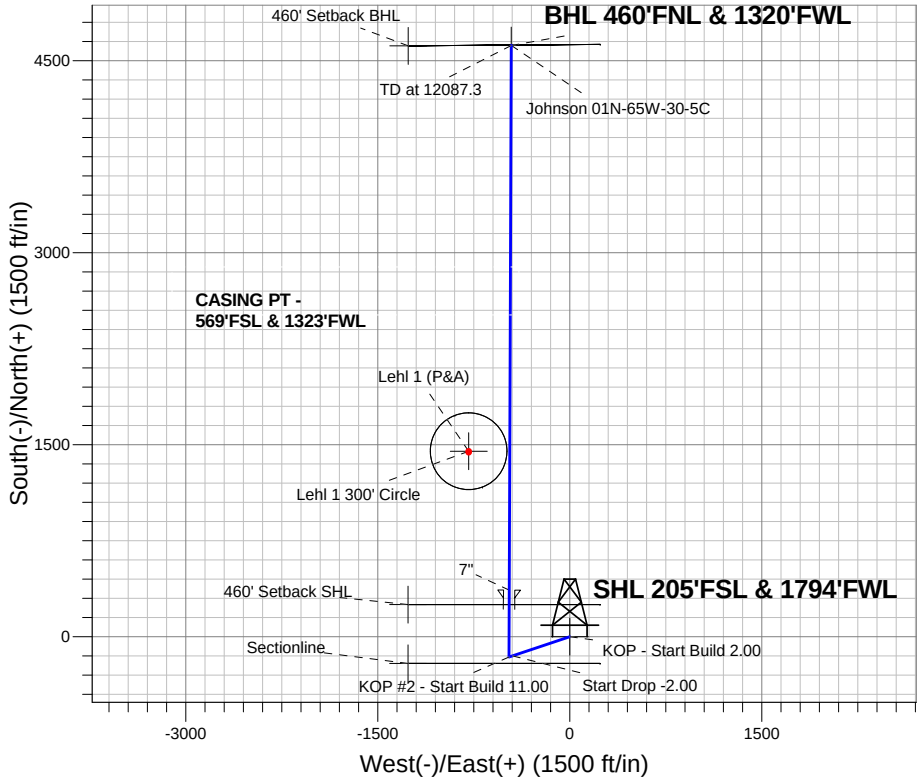
Azimuths to True North
Magnetic North: 8.38°

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

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

ANNOTATIONS

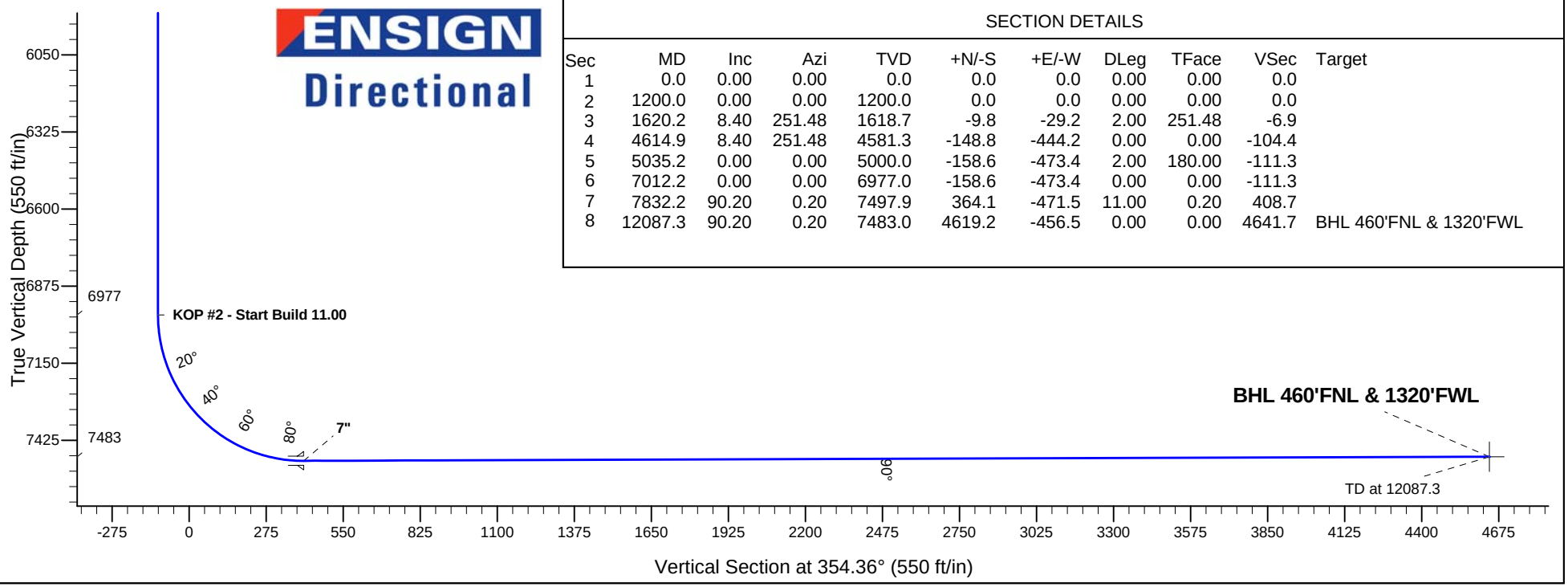
TVD	MD	Annotation
1200.0	1200.0	KOP - Start Build 2.00
4581.3	4614.9	Start Drop -2.00
6977.0	7012.2	KOP #2 - Start Build 11.00
7483.0	12087.3	TD at 12087.3



ENSIGN Directional

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1620.2	8.40	251.48	1618.7	-9.8	-29.2	2.00	251.48	-6.9	
4	4614.9	8.40	251.48	4581.3	-148.8	-444.2	0.00	0.00	-104.4	
5	5035.2	0.00	0.00	5000.0	-158.6	-473.4	2.00	180.00	-111.3	
6	7012.2	0.00	0.00	6977.0	-158.6	-473.4	0.00	0.00	-111.3	
7	7832.2	90.20	0.20	7497.9	364.1	-471.5	11.00	0.20	408.7	
8	12087.3	90.20	0.20	7483.0	4619.2	-456.5	0.00	0.00	4641.7	BHL 460'FNL & 1320'FWL



Verdad Oil & Gas Corporation

SEC.30-T1N-R65W
Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W
Johnson 01N-65W-30-5C

Wellbore #1

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

Standard Planning Report

05 August, 2014

Database:	landmark	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (8-5-14)		

Project SEC.30-T1N-R65W, Weld County, CO

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

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

Site Position:		**Northing:**	1,249,518.89 ft	**Latitude:**	40.015610
From:	Lat/Long	**Easting:**	3,221,278.95 ft	**Longitude:**	-104.709960
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.51 °

Well Johnson 01N-65W-30-5C

Well Position	**+N/-S**	3.6 ft	**Northing:**	1,249,523.07 ft	**Latitude:**	40.015620
	+E/-W	61.6 ft	**Easting:**	3,221,340.54 ft	**Longitude:**	-104.709740
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,000.0 ft

Wellbore Wellbore #1

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

Design Plan #2 (8-5-14)

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	354.36

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,620.2	8.40	251.48	1,618.7	-9.8	-29.2	2.00	2.00	0.00	251.48	
4,614.9	8.40	251.48	4,581.3	-148.8	-444.2	0.00	0.00	0.00	0.00	
5,035.2	0.00	0.00	5,000.0	-158.6	-473.4	2.00	-2.00	0.00	180.00	
7,012.2	0.00	0.00	6,977.0	-158.6	-473.4	0.00	0.00	0.00	0.00	
7,832.2	90.20	0.20	7,497.9	364.1	-471.5	11.00	11.00	0.00	0.20	
12,087.3	90.20	0.20	7,483.0	4,619.2	-456.5	0.00	0.00	0.00	0.00	BHL 460'FNL & 132

Database:	landmark	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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
KOP - Start Build 2.00									
1,300.0	2.00	251.48	1,300.0	-0.6	-1.7	-0.4	2.00	2.00	0.00
1,400.0	4.00	251.48	1,399.8	-2.2	-6.6	-1.6	2.00	2.00	0.00
1,500.0	6.00	251.48	1,499.5	-5.0	-14.9	-3.5	2.00	2.00	0.00
1,600.0	8.00	251.48	1,598.7	-8.9	-26.4	-6.2	2.00	2.00	0.00
1,620.2	8.40	251.48	1,618.7	-9.8	-29.2	-6.9	2.00	2.00	0.00
1,700.0	8.40	251.48	1,697.6	-13.5	-40.2	-9.5	0.00	0.00	0.00
1,800.0	8.40	251.48	1,796.6	-18.1	-54.1	-12.7	0.00	0.00	0.00
1,900.0	8.40	251.48	1,895.5	-22.8	-67.9	-16.0	0.00	0.00	0.00
2,000.0	8.40	251.48	1,994.4	-27.4	-81.8	-19.2	0.00	0.00	0.00
2,100.0	8.40	251.48	2,093.3	-32.1	-95.7	-22.5	0.00	0.00	0.00
2,200.0	8.40	251.48	2,192.3	-36.7	-109.5	-25.7	0.00	0.00	0.00
2,300.0	8.40	251.48	2,291.2	-41.3	-123.4	-29.0	0.00	0.00	0.00
2,400.0	8.40	251.48	2,390.1	-46.0	-137.2	-32.3	0.00	0.00	0.00
2,500.0	8.40	251.48	2,489.0	-50.6	-151.1	-35.5	0.00	0.00	0.00
2,600.0	8.40	251.48	2,588.0	-55.3	-165.0	-38.8	0.00	0.00	0.00
2,700.0	8.40	251.48	2,686.9	-59.9	-178.8	-42.0	0.00	0.00	0.00
2,800.0	8.40	251.48	2,785.8	-64.6	-192.7	-45.3	0.00	0.00	0.00
2,900.0	8.40	251.48	2,884.7	-69.2	-206.5	-48.6	0.00	0.00	0.00
3,000.0	8.40	251.48	2,983.7	-73.8	-220.4	-51.8	0.00	0.00	0.00
3,100.0	8.40	251.48	3,082.6	-78.5	-234.3	-55.1	0.00	0.00	0.00
3,200.0	8.40	251.48	3,181.5	-83.1	-248.1	-58.3	0.00	0.00	0.00
3,300.0	8.40	251.48	3,280.5	-87.8	-262.0	-61.6	0.00	0.00	0.00
3,400.0	8.40	251.48	3,379.4	-92.4	-275.8	-64.8	0.00	0.00	0.00
3,500.0	8.40	251.48	3,478.3	-97.1	-289.7	-68.1	0.00	0.00	0.00
3,600.0	8.40	251.48	3,577.2	-101.7	-303.6	-71.4	0.00	0.00	0.00
3,700.0	8.40	251.48	3,676.2	-106.3	-317.4	-74.6	0.00	0.00	0.00
3,800.0	8.40	251.48	3,775.1	-111.0	-331.3	-77.9	0.00	0.00	0.00
3,900.0	8.40	251.48	3,874.0	-115.6	-345.1	-81.1	0.00	0.00	0.00
4,000.0	8.40	251.48	3,972.9	-120.3	-359.0	-84.4	0.00	0.00	0.00
4,100.0	8.40	251.48	4,071.9	-124.9	-372.9	-87.6	0.00	0.00	0.00
4,200.0	8.40	251.48	4,170.8	-129.6	-386.7	-90.9	0.00	0.00	0.00
4,300.0	8.40	251.48	4,269.7	-134.2	-400.6	-94.2	0.00	0.00	0.00
4,400.0	8.40	251.48	4,368.6	-138.8	-414.4	-97.4	0.00	0.00	0.00
4,500.0	8.40	251.48	4,467.6	-143.5	-428.3	-100.7	0.00	0.00	0.00
4,600.0	8.40	251.48	4,566.5	-148.1	-442.2	-103.9	0.00	0.00	0.00
4,614.9	8.40	251.48	4,581.2	-148.8	-444.2	-104.4	0.00	0.00	0.00
Start Drop -2.00									
4,700.0	6.70	251.48	4,665.6	-152.4	-454.8	-106.9	2.00	-2.00	0.00
4,800.0	4.70	251.48	4,765.1	-155.5	-464.3	-109.1	2.00	-2.00	0.00

Database:	landmark	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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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-30-5C	**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)
4,900.0	2.70	251.48	4,864.9	-157.6	-470.4	-110.6	2.00	-2.00	0.00
5,000.0	0.70	251.48	4,964.8	-158.5	-473.2	-111.2	2.00	-2.00	0.00
5,035.2	0.00	0.00	5,000.0	-158.6	-473.4	-111.3	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,064.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
5,200.0	0.00	0.00	5,164.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
5,300.0	0.00	0.00	5,264.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
5,400.0	0.00	0.00	5,364.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
5,500.0	0.00	0.00	5,464.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,564.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
5,700.0	0.00	0.00	5,664.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,764.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,864.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,964.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
6,100.0	0.00	0.00	6,064.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
6,200.0	0.00	0.00	6,164.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,264.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,364.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,464.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,564.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,664.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,764.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,864.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,964.8	-158.6	-473.4	-111.3	0.00	0.00	0.00
7,012.2	0.00	0.00	6,977.0	-158.6	-473.4	-111.3	0.00	0.00	0.00
KOP #2 - Start Build 11.00									
7,100.0	9.66	0.20	7,064.4	-151.2	-473.4	-103.9	11.01	11.01	0.00
7,200.0	20.66	0.20	7,160.8	-125.1	-473.3	-78.0	11.00	11.00	0.00
7,300.0	31.66	0.20	7,250.4	-81.1	-473.1	-34.2	11.00	11.00	0.00
7,400.0	42.66	0.20	7,330.0	-20.8	-472.9	25.8	11.00	11.00	0.00
7,500.0	53.66	0.20	7,396.6	53.6	-472.6	99.8	11.00	11.00	0.00
7,600.0	64.66	0.20	7,447.7	139.4	-472.3	185.1	11.00	11.00	0.00
7,700.0	75.66	0.20	7,481.6	233.3	-472.0	278.6	11.00	11.00	0.00
7,800.0	86.66	0.20	7,497.0	331.9	-471.7	376.7	11.00	11.00	0.00
7,832.2	90.20	0.20	7,497.9	364.1	-471.5	408.7	10.99	10.99	0.00
7"									
7,900.0	90.20	0.20	7,497.6	431.9	-471.3	476.2	0.00	0.00	0.00
8,000.0	90.20	0.20	7,497.3	531.9	-471.0	575.7	0.00	0.00	0.00
8,100.0	90.20	0.20	7,496.9	631.9	-470.6	675.1	0.00	0.00	0.00
8,200.0	90.20	0.20	7,496.6	731.9	-470.2	774.6	0.00	0.00	0.00
8,300.0	90.20	0.20	7,496.2	831.9	-469.9	874.1	0.00	0.00	0.00
8,400.0	90.20	0.20	7,495.9	931.9	-469.5	973.6	0.00	0.00	0.00
8,500.0	90.20	0.20	7,495.5	1,031.9	-469.2	1,073.1	0.00	0.00	0.00
8,600.0	90.20	0.20	7,495.2	1,131.9	-468.8	1,172.5	0.00	0.00	0.00
8,700.0	90.20	0.20	7,494.8	1,231.9	-468.5	1,272.0	0.00	0.00	0.00
8,800.0	90.20	0.20	7,494.5	1,331.9	-468.1	1,371.5	0.00	0.00	0.00
8,900.0	90.20	0.20	7,494.1	1,431.9	-467.8	1,471.0	0.00	0.00	0.00
9,000.0	90.20	0.20	7,493.8	1,531.9	-467.4	1,570.4	0.00	0.00	0.00
9,100.0	90.20	0.20	7,493.4	1,631.9	-467.1	1,669.9	0.00	0.00	0.00
9,200.0	90.20	0.20	7,493.1	1,731.9	-466.7	1,769.4	0.00	0.00	0.00
9,300.0	90.20	0.20	7,492.7	1,831.9	-466.3	1,868.9	0.00	0.00	0.00
9,400.0	90.20	0.20	7,492.4	1,931.9	-466.0	1,968.4	0.00	0.00	0.00
9,500.0	90.20	0.20	7,492.0	2,031.9	-465.6	2,067.8	0.00	0.00	0.00
9,600.0	90.20	0.20	7,491.7	2,131.9	-465.3	2,167.3	0.00	0.00	0.00

Database:	landmark	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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	90.20	0.20	7,491.3	2,231.9	-464.9	2,266.8	0.00	0.00	0.00
9,800.0	90.20	0.20	7,491.0	2,331.9	-464.6	2,366.3	0.00	0.00	0.00
9,900.0	90.20	0.20	7,490.6	2,431.9	-464.2	2,465.8	0.00	0.00	0.00
10,000.0	90.20	0.20	7,490.3	2,531.9	-463.9	2,565.2	0.00	0.00	0.00
10,100.0	90.20	0.20	7,489.9	2,631.9	-463.5	2,664.7	0.00	0.00	0.00
10,200.0	90.20	0.20	7,489.6	2,731.9	-463.2	2,764.2	0.00	0.00	0.00
10,300.0	90.20	0.20	7,489.2	2,831.9	-462.8	2,863.7	0.00	0.00	0.00
10,400.0	90.20	0.20	7,488.9	2,931.9	-462.5	2,963.2	0.00	0.00	0.00
10,500.0	90.20	0.20	7,488.5	3,031.9	-462.1	3,062.6	0.00	0.00	0.00
10,600.0	90.20	0.20	7,488.2	3,131.9	-461.7	3,162.1	0.00	0.00	0.00
10,700.0	90.20	0.20	7,487.8	3,231.9	-461.4	3,261.6	0.00	0.00	0.00
10,800.0	90.20	0.20	7,487.5	3,331.9	-461.0	3,361.1	0.00	0.00	0.00
10,900.0	90.20	0.20	7,487.1	3,431.9	-460.7	3,460.6	0.00	0.00	0.00
11,000.0	90.20	0.20	7,486.8	3,531.9	-460.3	3,560.0	0.00	0.00	0.00
11,100.0	90.20	0.20	7,486.4	3,631.9	-460.0	3,659.5	0.00	0.00	0.00
11,200.0	90.20	0.20	7,486.1	3,731.9	-459.6	3,759.0	0.00	0.00	0.00
11,300.0	90.20	0.20	7,485.7	3,831.9	-459.3	3,858.5	0.00	0.00	0.00
11,400.0	90.20	0.20	7,485.4	3,931.9	-458.9	3,958.0	0.00	0.00	0.00
11,500.0	90.20	0.20	7,485.1	4,031.9	-458.6	4,057.4	0.00	0.00	0.00
11,600.0	90.20	0.20	7,484.7	4,131.9	-458.2	4,156.9	0.00	0.00	0.00
11,700.0	90.20	0.20	7,484.4	4,231.9	-457.8	4,256.4	0.00	0.00	0.00
11,800.0	90.20	0.20	7,484.0	4,331.9	-457.5	4,355.9	0.00	0.00	0.00
11,900.0	90.20	0.20	7,483.7	4,431.9	-457.1	4,455.3	0.00	0.00	0.00
12,000.0	90.20	0.20	7,483.3	4,531.9	-456.8	4,554.8	0.00	0.00	0.00
12,087.3	90.20	0.20	7,483.0	4,619.2	-456.5	4,641.7	0.00	0.00	0.00
TD at 12087.3									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,832.2	7,497.9	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,200.0	1,200.0	0.0	0.0	KOP - Start Build 2.00
4,614.9	4,581.3	-9.8	-29.2	Start Drop -2.00
7,012.2	6,977.0	-148.8	-444.2	KOP #2 - Start Build 11.00
12,087.3	7,483.0	-158.6	-473.4	TD at 12087.3

ENSIGN
Directional

Verdad Oil & Gas Corporation

SEC.30-T1N-R65W
Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W
Johnson 01N-65W-30-5C

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-30-5C
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-30-5C	**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	12,087.3	Plan #2 (8-5-14) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Existing Wells Sec.30-T1N-R65W						
Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1	11,411.1	7,463.4	496.1	269.4	2.188	CC, ES, SF
Lehl 1 (P&A) - Wellbore #1 - Wellbore #1	8,916.5	7,488.1	321.3	139.1	1.764	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	61.7	61.1	91.546	CC, ES
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14	12,088.1	12,150.9	658.1	477.4	3.641	SF
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14	400.0	400.0	47.8	46.2	30.353	CC, ES
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14	12,088.1	11,732.0	638.0	488.6	4.273	SF
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14	600.0	600.0	31.0	28.6	12.549	CC, ES
Johnson 01N-65W-30-3N - Wellbore #1 - Plan #2 (8-5-14	12,088.1	11,905.5	347.4	193.5	2.258	SF
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8-5-14	800.0	800.0	16.8	13.4	4.985	CC, ES
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #2 (8-5-14	12,088.1	11,899.1	263.3	134.8	2.049	SF
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8-1-14	1,200.0	1,200.0	14.0	8.8	2.709	CC, ES
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8-1-14	12,088.1	11,790.0	263.3	139.1	2.120	SF
Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8-1-14	1,200.0	1,199.0	28.0	22.8	5.421	CC, ES
Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8-1-14	12,088.1	11,778.8	388.9	232.2	2.483	SF
Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8-1-14	1,200.0	1,199.0	44.8	39.6	8.673	CC, ES
Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8-1-14	12,088.1	11,768.4	536.4	368.1	3.188	SF
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14	1,200.0	1,199.0	58.8	53.7	11.383	CC, ES
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14	12,088.1	11,972.1	660.9	480.6	3.665	SF

Offset Design Existing Wells Sec.30-T1N-R65W - Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 8208-UNKNOWN **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
10,600.0	7,488.2	7,466.2	7,466.2	62.8	149.3	90.33	3,941.2	37.2	950.8	739.1	211.72	4.491	
10,700.0	7,487.8	7,465.8	7,465.8	64.6	149.3	90.29	3,941.2	37.2	867.1	653.5	213.56	4.060	
10,800.0	7,487.5	7,465.5	7,465.5	66.5	149.3	90.25	3,941.2	37.2	787.1	571.7	215.41	3.654	
10,900.0	7,487.1	7,465.1	7,465.1	68.3	149.3	90.21	3,941.2	37.2	712.3	495.0	217.26	3.279	
11,000.0	7,486.8	7,464.8	7,464.8	70.2	149.3	90.17	3,941.2	37.2	644.3	425.2	219.11	2.941	
11,100.0	7,486.4	7,464.4	7,464.4	72.0	149.3	90.13	3,941.2	37.2	585.6	364.6	220.96	2.650	
11,200.0	7,486.1	7,464.1	7,464.1	73.9	149.3	90.09	3,941.2	37.2	539.2	316.3	222.82	2.420	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
11,300.0	7,485.7	7,463.7	7,463.7	75.7	149.3	90.04	3,941.2	37.2	508.4	283.7	224.68	2.263	
11,400.0	7,485.4	7,463.4	7,463.4	77.6	149.3	90.00	3,941.2	37.2	496.2	269.7	226.54	2.191	
11,411.1	7,485.4	7,463.4	7,463.4	77.8	149.3	90.00	3,941.2	37.2	496.1	269.4	226.75	2.188	CC, ES, SF
11,500.0	7,485.1	7,463.1	7,463.1	79.5	149.3	89.96	3,941.2	37.2	504.0	275.6	228.41	2.207	
11,600.0	7,484.7	7,462.7	7,462.7	81.3	149.3	89.92	3,941.2	37.2	530.9	300.6	230.27	2.305	
11,700.0	7,484.4	7,462.4	7,462.4	83.2	149.2	89.88	3,941.2	37.2	574.1	342.0	232.14	2.473	
11,800.0	7,484.0	7,462.0	7,462.0	85.1	149.2	89.84	3,941.2	37.2	630.4	396.4	234.01	2.694	
11,900.0	7,483.7	7,461.7	7,461.7	86.9	149.2	89.80	3,941.2	37.2	696.5	460.7	235.88	2.953	
12,000.0	7,483.3	7,461.3	7,461.3	88.8	149.2	89.76	3,941.2	37.2	770.0	532.3	237.75	3.239	
12,088.1	7,483.0	7,461.0	7,461.0	90.5	149.2	89.73	3,941.2	37.2	839.3	599.9	239.40	3.506	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
8,000.0	7,497.3	7,491.3	7,491.3	20.5	149.8	-90.57	1,449.5	-789.0	971.1	802.0	169.16	5.741	
8,100.0	7,496.9	7,490.9	7,490.9	21.5	149.8	-90.51	1,449.5	-789.0	877.4	707.1	170.26	5.153	
8,200.0	7,496.6	7,490.6	7,490.6	22.7	149.8	-90.45	1,449.5	-789.0	785.2	613.7	171.46	4.579	
8,300.0	7,496.2	7,490.2	7,490.2	23.9	149.8	-90.38	1,449.5	-789.0	695.2	522.4	172.77	4.024	
8,400.0	7,495.9	7,489.9	7,489.9	25.3	149.8	-90.32	1,449.5	-789.0	608.2	434.1	174.15	3.493	
8,500.0	7,495.5	7,489.5	7,489.5	26.7	149.8	-90.26	1,449.5	-789.0	526.0	350.4	175.60	2.995	
8,600.0	7,495.2	7,489.2	7,489.2	28.1	149.8	-90.20	1,449.5	-789.0	451.0	273.9	177.11	2.546	
8,700.0	7,494.8	7,488.8	7,488.8	29.7	149.8	-90.13	1,449.5	-789.0	387.4	208.7	178.66	2.168	
8,800.0	7,494.5	7,488.5	7,488.5	31.2	149.8	-90.07	1,449.5	-789.0	341.7	161.5	180.26	1.896	
8,900.0	7,494.1	7,488.1	7,488.1	32.8	149.8	-90.01	1,449.5	-789.0	321.7	139.8	181.89	1.769	
8,916.5	7,494.1	7,488.1	7,488.1	33.1	149.8	-90.00	1,449.5	-789.0	321.3	139.1	182.16	1.764	CC, ES, SF
9,000.0	7,493.8	7,487.8	7,487.8	34.5	149.8	-89.95	1,449.5	-789.0	332.0	148.4	183.54	1.809	
9,100.0	7,493.4	7,487.4	7,487.4	36.1	149.7	-89.89	1,449.5	-789.0	370.0	184.8	185.23	1.998	
9,200.0	7,493.1	7,487.1	7,487.1	37.8	149.7	-89.82	1,449.5	-789.0	428.5	241.6	186.93	2.292	
9,300.0	7,492.7	7,486.7	7,486.7	39.5	149.7	-89.76	1,449.5	-789.0	500.3	311.7	188.66	2.652	
9,400.0	7,492.4	7,486.4	7,486.4	41.2	149.7	-89.70	1,449.5	-789.0	580.5	390.1	190.39	3.049	
9,500.0	7,492.0	7,486.0	7,486.0	43.0	149.7	-89.64	1,449.5	-789.0	666.1	474.0	192.15	3.467	
9,600.0	7,491.7	7,485.7	7,485.7	44.7	149.7	-89.57	1,449.5	-789.0	755.3	561.4	193.92	3.895	
9,700.0	7,491.3	7,485.3	7,485.3	46.5	149.7	-89.51	1,449.5	-789.0	846.8	651.2	195.69	4.327	
9,800.0	7,491.0	7,485.0	7,485.0	48.3	149.7	-89.45	1,449.5	-789.0	940.1	742.7	197.48	4.761	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	landmark
Reference Design:	Plan #2 (8-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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	-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	CC, ES
300.0	300.0	297.9	297.8	0.6	0.5	-93.52	-3.9	-63.3	63.4	62.3	1.11	57.266	
400.0	400.0	395.5	395.3	0.8	0.8	-93.87	-4.6	-68.2	68.5	67.0	1.55	44.273	
500.0	500.0	492.7	492.2	1.0	1.0	-94.36	-5.8	-76.4	77.0	75.0	2.01	38.278	
600.0	600.0	589.2	588.0	1.2	1.3	-94.89	-7.5	-87.7	88.9	86.4	2.51	35.464	
700.0	700.0	684.8	682.5	1.5	1.6	-95.39	-9.6	-102.1	104.0	101.0	3.04	34.277	
800.0	800.0	781.4	777.5	1.7	2.0	-95.83	-12.2	-119.4	122.1	118.5	3.61	33.867	
900.0	900.0	879.6	874.0	1.9	2.3	-96.17	-14.8	-137.3	140.6	136.4	4.20	33.474	
1,000.0	1,000.0	977.9	970.6	2.1	2.7	-96.43	-17.5	-155.3	159.0	154.2	4.80	33.119	
1,100.0	1,100.0	1,076.2	1,067.2	2.4	3.1	-96.63	-20.2	-173.3	177.5	172.1	5.41	32.809	
1,200.0	1,200.0	1,174.5	1,163.8	2.6	3.5	-96.80	-22.8	-191.3	196.0	190.0	6.02	32.541	
1,300.0	1,300.0	1,273.0	1,260.7	2.8	4.0	11.61	-25.5	-209.3	212.8	207.1	5.69	37.421	
1,400.0	1,399.8	1,372.1	1,358.0	3.0	4.4	11.70	-28.2	-227.4	226.2	220.1	6.12	36.931	
1,500.0	1,499.5	1,471.6	1,455.8	3.2	4.8	11.96	-30.8	-245.6	236.2	229.6	6.57	35.957	
1,600.0	1,598.7	1,571.4	1,553.9	3.4	5.2	12.38	-33.5	-263.8	242.9	235.8	7.02	34.596	
1,700.0	1,697.6	1,671.2	1,652.0	3.7	5.6	12.93	-36.2	-282.1	247.2	239.7	7.49	33.012	
1,800.0	1,796.6	1,771.1	1,750.2	4.0	6.0	13.46	-38.9	-300.4	251.5	243.5	7.97	31.568	
1,900.0	1,895.5	1,871.0	1,848.3	4.2	6.5	13.98	-41.6	-318.6	255.8	247.3	8.45	30.265	
2,000.0	1,994.4	1,970.9	1,946.5	4.5	6.9	14.48	-44.3	-336.9	260.1	251.1	8.94	29.087	
2,100.0	2,093.3	2,070.8	2,044.7	4.8	7.3	14.96	-47.0	-355.1	264.4	255.0	9.44	28.017	
2,200.0	2,192.3	2,170.7	2,142.8	5.2	7.7	15.43	-49.7	-373.4	268.8	258.9	9.94	27.042	
2,300.0	2,291.2	2,270.5	2,241.0	5.5	8.1	15.89	-52.4	-391.7	273.2	262.7	10.45	26.151	
2,400.0	2,390.1	2,370.4	2,339.1	5.8	8.6	16.32	-55.1	-409.9	277.6	266.6	10.96	25.334	
2,500.0	2,489.0	2,470.3	2,437.3	6.1	9.0	16.75	-57.8	-428.2	282.0	270.5	11.47	24.582	
2,600.0	2,588.0	2,570.2	2,535.5	6.5	9.4	17.16	-60.5	-446.5	286.4	274.4	11.99	23.888	
2,700.0	2,686.9	2,670.1	2,633.6	6.8	9.8	17.56	-63.2	-464.7	290.8	278.3	12.51	23.247	
2,800.0	2,785.8	2,769.9	2,731.8	7.1	10.3	17.95	-65.9	-483.0	295.3	282.3	13.04	22.652	
2,900.0	2,884.7	2,869.8	2,829.9	7.5	10.7	18.32	-68.6	-501.3	299.8	286.2	13.56	22.099	
3,000.0	2,983.7	2,969.7	2,928.1	7.8	11.1	18.69	-71.3	-519.5	304.2	290.2	14.10	21.584	
3,100.0	3,082.6	3,069.6	3,026.3	8.2	11.5	19.04	-74.0	-537.8	308.7	294.1	14.63	21.103	
3,200.0	3,181.5	3,169.5	3,124.4	8.5	11.9	19.39	-76.7	-556.0	313.2	298.1	15.17	20.653	
3,300.0	3,280.5	3,269.3	3,222.6	8.8	12.4	19.72	-79.4	-574.3	317.8	302.1	15.71	20.231	
3,400.0	3,379.4	3,369.2	3,320.7	9.2	12.8	20.05	-82.1	-592.6	322.3	306.0	16.25	19.834	
3,500.0	3,478.3	3,469.1	3,418.9	9.5	13.2	20.36	-84.8	-610.8	326.8	310.0	16.79	19.461	
3,600.0	3,577.2	3,569.0	3,517.1	9.9	13.6	20.67	-87.5	-629.1	331.4	314.0	17.34	19.110	
3,700.0	3,676.2	3,668.9	3,615.2	10.2	14.1	20.97	-90.2	-647.4	335.9	318.0	17.89	18.778	
3,800.0	3,775.1	3,768.8	3,713.4	10.6	14.5	21.26	-92.9	-665.6	340.5	322.0	18.44	18.464	
3,900.0	3,874.0	3,868.6	3,811.5	10.9	14.9	21.54	-95.6	-683.9	345.0	326.1	18.99	18.167	
4,000.0	3,972.9	3,968.5	3,909.7	11.3	15.3	21.82	-98.3	-702.2	349.6	330.1	19.55	17.886	
4,100.0	4,071.9	4,068.4	4,007.9	11.7	15.7	22.09	-101.0	-720.4	354.2	334.1	20.10	17.618	
4,200.0	4,170.8	4,168.3	4,106.0	12.0	16.2	22.35	-103.7	-738.7	358.8	338.1	20.66	17.364	
4,300.0	4,269.7	4,268.2	4,204.2	12.4	16.6	22.60	-106.4	-756.9	363.4	342.2	21.22	17.123	
4,400.0	4,368.6	4,368.0	4,302.3	12.7	17.0	22.85	-109.1	-775.2	368.0	346.2	21.79	16.892	
4,500.0	4,467.6	4,467.9	4,400.5	13.1	17.4	23.10	-111.8	-793.5	372.6	350.3	22.35	16.673	
4,600.0	4,566.5	4,567.8	4,498.7	13.4	17.9	23.33	-114.5	-811.7	377.3	354.3	22.91	16.463	
4,700.0	4,665.6	4,667.6	4,596.8	13.7	18.3	23.53	-117.2	-830.0	383.0	359.6	23.44	16.342	
4,800.0	4,765.1	4,767.2	4,694.6	14.0	18.7	23.55	-119.9	-848.2	392.0	368.1	23.88	16.413	
4,900.0	4,864.9	4,866.5	4,792.2	14.1	19.1	23.40	-122.6	-866.4	404.1	379.8	24.27	16.649	
5,000.0	4,964.8	4,965.2	4,889.2	14.3	19.5	23.10	-125.3	-884.4	419.4	394.8	24.61	17.042	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	landmark
Reference Design:	Plan #2 (8-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
5,100.0	5,064.8	5,063.5	4,985.9	14.5	20.0	-85.91	-127.9	-902.4	437.3	412.3	24.95	17.528	
5,200.0	5,164.8	5,161.8	5,082.4	14.6	20.4	-86.41	-130.6	-920.4	455.4	430.0	25.34	17.971	
5,300.0	5,264.8	5,260.1	5,179.0	14.8	20.8	-86.88	-133.3	-938.3	473.5	447.7	25.73	18.398	
5,400.0	5,364.8	5,358.4	5,275.6	14.9	21.2	-87.31	-135.9	-956.3	491.6	465.5	26.14	18.809	
5,500.0	5,464.8	5,456.7	5,372.2	15.1	21.6	-87.71	-138.6	-974.3	509.8	483.2	26.54	19.205	
5,600.0	5,564.8	5,554.9	5,468.8	15.3	22.0	-88.08	-141.2	-992.2	527.9	501.0	26.96	19.586	
5,700.0	5,664.8	5,653.2	5,565.4	15.4	22.5	-88.43	-143.9	-1,010.2	546.1	518.8	27.37	19.954	
5,800.0	5,764.8	5,751.5	5,661.9	15.6	22.9	-88.75	-146.5	-1,028.2	564.4	536.6	27.79	20.308	
5,900.0	5,864.8	5,849.8	5,758.5	15.8	23.3	-89.06	-149.2	-1,046.2	582.6	554.4	28.21	20.650	
6,000.0	5,964.8	5,948.0	5,855.1	15.9	23.7	-89.35	-151.8	-1,064.1	600.9	572.2	28.64	20.981	
6,100.0	6,064.8	6,046.3	5,951.7	16.1	24.1	-89.61	-154.5	-1,082.1	619.1	590.1	29.07	21.300	
6,200.0	6,164.8	6,166.9	6,070.5	16.3	24.5	-89.90	-157.5	-1,102.4	636.0	606.5	29.50	21.560	
6,300.0	6,264.8	6,294.4	6,196.9	16.5	24.8	-90.11	-159.9	-1,118.5	648.7	618.8	29.92	21.680	
6,400.0	6,364.8	6,423.0	6,325.1	16.6	25.1	-90.25	-161.5	-1,129.1	656.9	626.6	30.33	21.658	
6,500.0	6,464.8	6,552.4	6,454.4	16.8	25.3	-90.31	-162.2	-1,134.1	660.8	630.0	30.74	21.493	
6,600.0	6,564.8	6,662.8	6,564.8	17.0	25.4	-90.32	-162.2	-1,134.4	661.0	629.9	31.13	21.236	
6,700.0	6,664.8	6,762.8	6,664.8	17.2	25.5	-90.32	-162.2	-1,134.4	661.0	629.5	31.50	20.986	
6,800.0	6,764.8	6,862.8	6,764.8	17.3	25.6	-90.32	-162.2	-1,134.4	661.0	629.2	31.87	20.741	
6,900.0	6,864.8	6,962.8	6,864.8	17.5	25.7	-90.32	-162.2	-1,134.4	661.0	628.8	32.25	20.500	
7,000.0	6,964.8	7,062.8	6,964.8	17.7	25.9	-90.32	-162.2	-1,134.4	661.0	628.4	32.62	20.263	
7,100.0	7,064.4	7,163.9	7,065.5	17.9	26.0	-90.51	-154.7	-1,134.4	661.0	628.1	32.97	20.049	
7,200.0	7,160.8	7,265.1	7,162.9	18.0	26.0	-90.48	-127.9	-1,134.3	661.0	627.8	33.20	19.908	
7,300.0	7,250.4	7,366.2	7,253.3	18.1	26.1	-90.44	-82.9	-1,134.1	661.0	627.6	33.39	19.797	
7,400.0	7,330.0	7,467.2	7,333.2	18.1	26.1	-90.38	-21.4	-1,133.8	660.9	627.3	33.61	19.664	
7,500.0	7,396.6	7,568.0	7,399.6	18.2	26.2	-90.31	54.2	-1,133.5	660.9	626.9	33.98	19.449	
7,600.0	7,447.7	7,668.6	7,450.2	18.3	26.2	-90.22	141.0	-1,133.2	660.8	626.2	34.59	19.102	
7,700.0	7,481.6	7,769.0	7,483.1	18.6	26.4	-90.13	235.7	-1,132.8	660.8	625.2	35.52	18.601	
7,800.0	7,497.0	7,869.2	7,497.3	19.0	26.6	-90.03	334.7	-1,132.4	660.7	623.9	36.78	17.962	
7,900.0	7,497.6	7,969.2	7,497.6	19.7	27.0	-90.00	434.7	-1,131.9	660.6	622.3	38.37	17.220	
8,000.0	7,497.3	8,069.2	7,497.2	20.5	27.5	-90.00	534.7	-1,131.5	660.6	620.3	40.23	16.418	
8,100.0	7,496.9	8,169.2	7,496.9	21.5	28.1	-90.00	634.7	-1,131.1	660.5	618.2	42.37	15.590	
8,200.0	7,496.6	8,269.2	7,496.5	22.7	28.9	-90.00	734.7	-1,130.7	660.5	615.7	44.73	14.767	
8,300.0	7,496.2	8,369.2	7,496.2	23.9	29.8	-90.00	834.7	-1,130.3	660.4	613.1	47.28	13.968	
8,400.0	7,495.9	8,469.2	7,495.8	25.3	30.8	-90.00	934.7	-1,129.9	660.3	610.3	49.99	13.209	
8,500.0	7,495.5	8,569.2	7,495.5	26.7	31.9	-90.00	1,034.7	-1,129.5	660.3	607.4	52.85	12.494	
8,600.0	7,495.2	8,669.2	7,495.2	28.1	33.1	-90.00	1,134.7	-1,129.0	660.2	604.4	55.82	11.829	
8,700.0	7,494.8	8,769.2	7,494.8	29.7	34.3	-90.00	1,234.7	-1,128.6	660.2	601.3	58.88	11.211	
8,800.0	7,494.5	8,869.2	7,494.5	31.2	35.7	-90.00	1,334.7	-1,128.2	660.1	598.1	62.04	10.640	
8,900.0	7,494.1	8,969.2	7,494.1	32.8	37.1	-90.00	1,434.7	-1,127.8	660.0	594.8	65.26	10.113	
9,000.0	7,493.8	9,069.2	7,493.8	34.5	38.5	-90.00	1,534.6	-1,127.4	660.0	591.4	68.55	9.628	
9,100.0	7,493.4	9,169.2	7,493.4	36.1	40.0	-90.00	1,634.6	-1,127.0	659.9	588.0	71.89	9.179	
9,200.0	7,493.1	9,269.2	7,493.1	37.8	41.5	-90.00	1,734.6	-1,126.6	659.9	584.6	75.28	8.766	
9,300.0	7,492.7	9,369.2	7,492.7	39.5	43.1	-90.00	1,834.6	-1,126.1	659.8	581.1	78.71	8.383	
9,400.0	7,492.4	9,469.2	7,492.4	41.2	44.7	-90.00	1,934.6	-1,125.7	659.7	577.6	82.17	8.029	
9,500.0	7,492.0	9,569.2	7,492.0	43.0	46.3	-90.00	2,034.6	-1,125.3	659.7	574.0	85.66	7.701	
9,600.0	7,491.7	9,669.2	7,491.7	44.7	47.9	-90.00	2,134.6	-1,124.9	659.6	570.4	89.18	7.396	
9,700.0	7,491.3	9,769.2	7,491.3	46.5	49.6	-90.00	2,234.6	-1,124.5	659.6	566.8	92.73	7.113	
9,800.0	7,491.0	9,869.2	7,491.0	48.3	51.2	-90.00	2,334.6	-1,124.1	659.5	563.2	96.30	6.848	
9,900.0	7,490.6	9,969.2	7,490.6	50.1	52.9	-90.00	2,434.6	-1,123.6	659.4	559.5	99.88	6.602	
10,000.0	7,490.3	10,069.2	7,490.3	51.9	54.6	-90.00	2,534.6	-1,123.2	659.4	555.9	103.49	6.371	
10,100.0	7,489.9	10,169.2	7,489.9	53.7	56.3	-90.00	2,634.6	-1,122.8	659.3	552.2	107.11	6.156	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	landmark
Reference Design:	Plan #2 (8-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
10,200.0	7,489.6	10,269.2	7,489.6	55.5	58.1	-90.00	2,734.6	-1,122.4	659.2	548.5	110.74	5.953	
10,300.0	7,489.2	10,369.2	7,489.2	57.3	59.8	-90.00	2,834.6	-1,122.0	659.2	544.8	114.39	5.763	
10,400.0	7,488.9	10,469.2	7,488.9	59.1	61.6	-90.00	2,934.6	-1,121.6	659.1	541.1	118.05	5.584	
10,500.0	7,488.5	10,569.2	7,488.5	60.9	63.3	-90.00	3,034.6	-1,121.2	659.1	537.4	121.71	5.415	
10,600.0	7,488.2	10,669.2	7,488.2	62.8	65.1	-90.00	3,134.6	-1,120.7	659.0	533.6	125.39	5.256	
10,700.0	7,487.8	10,769.2	7,487.8	64.6	66.9	-90.00	3,234.6	-1,120.3	658.9	529.9	129.08	5.105	
10,800.0	7,487.5	10,869.2	7,487.5	66.5	68.7	-90.00	3,334.6	-1,119.9	658.9	526.1	132.77	4.962	
10,900.0	7,487.1	10,969.2	7,487.1	68.3	70.5	-90.00	3,434.6	-1,119.5	658.8	522.3	136.47	4.827	
11,000.0	7,486.8	11,069.2	7,486.8	70.2	72.3	-90.00	3,534.6	-1,119.1	658.8	518.6	140.18	4.699	
11,100.0	7,486.4	11,169.2	7,486.4	72.0	74.1	-90.00	3,634.6	-1,118.7	658.7	514.8	143.90	4.578	
11,200.0	7,486.1	11,269.2	7,486.1	73.9	75.9	-90.00	3,734.6	-1,118.3	658.6	511.0	147.62	4.462	
11,300.0	7,485.7	11,369.2	7,485.7	75.7	77.7	-90.00	3,834.6	-1,117.8	658.6	507.2	151.35	4.352	
11,400.0	7,485.4	11,469.2	7,485.4	77.6	79.5	-90.00	3,934.6	-1,117.4	658.5	503.4	155.08	4.246	
11,500.0	7,485.1	11,569.2	7,485.0	79.5	81.3	-90.00	4,034.6	-1,117.0	658.5	499.6	158.81	4.146	
11,600.0	7,484.7	11,669.2	7,484.7	81.3	83.2	-90.00	4,134.6	-1,116.6	658.4	495.8	162.55	4.050	
11,700.0	7,484.4	11,769.2	7,484.3	83.2	85.0	-90.00	4,234.6	-1,116.2	658.3	492.0	166.30	3.959	
11,800.0	7,484.0	11,869.2	7,484.0	85.1	86.8	-90.00	4,334.6	-1,115.8	658.3	488.2	170.04	3.871	
11,900.0	7,483.7	11,969.2	7,483.6	86.9	88.7	-90.00	4,434.6	-1,115.4	658.2	484.4	173.79	3.787	
12,000.0	7,483.3	12,069.2	7,483.3	88.8	90.5	-90.00	4,534.6	-1,114.9	658.2	480.6	177.55	3.707	
12,064.4	7,483.1	12,133.6	7,483.1	90.0	91.7	-90.00	4,599.0	-1,114.7	658.1	478.2	179.97	3.657	
12,088.1	7,483.0	12,150.9	7,483.0	90.5	92.1	-90.00	4,616.3	-1,114.6	658.1	477.4	180.73	3.641	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-94.37	-3.6	-47.6	47.8				
100.0	100.0	100.0	100.0	0.1	0.1	-94.37	-3.6	-47.6	47.8	47.5	0.22	212.470	
200.0	200.0	200.0	200.0	0.3	0.3	-94.37	-3.6	-47.6	47.8	47.1	0.67	70.823	
300.0	300.0	300.0	300.0	0.6	0.6	-94.37	-3.6	-47.6	47.8	46.6	1.12	42.494	
400.0	400.0	400.0	400.0	0.8	0.8	-94.37	-3.6	-47.6	47.8	46.2	1.57	30.353	CC, ES
500.0	500.0	498.3	498.3	1.0	1.0	-94.55	-3.9	-49.3	49.5	47.5	2.01	24.664	
600.0	600.0	596.4	596.3	1.2	1.2	-95.01	-4.8	-54.3	54.6	52.2	2.44	22.399	
700.0	700.0	694.1	693.5	1.5	1.4	-95.61	-6.1	-62.5	63.1	60.2	2.89	21.849	
800.0	800.0	791.0	789.8	1.7	1.7	-96.23	-8.1	-73.9	75.0	71.7	3.37	22.281	
900.0	900.0	887.1	884.7	1.9	2.0	-96.77	-10.5	-88.4	90.3	86.4	3.88	23.270	
1,000.0	1,000.0	984.3	980.4	2.1	2.3	-97.23	-13.4	-105.5	108.2	103.7	4.43	24.412	
1,100.0	1,100.0	1,082.7	1,077.1	2.4	2.7	-97.56	-16.3	-123.1	126.3	121.2	5.00	25.232	
1,200.0	1,200.0	1,181.0	1,173.9	2.6	3.1	-97.81	-19.3	-140.7	144.4	138.8	5.59	25.831	
1,300.0	1,300.0	1,279.7	1,270.9	2.8	3.5	10.58	-22.2	-158.3	160.8	155.2	5.58	28.797	
1,400.0	1,399.8	1,378.8	1,368.4	3.0	3.8	10.68	-25.2	-176.0	173.8	167.8	6.01	28.912	
1,500.0	1,499.5	1,478.3	1,466.3	3.2	4.2	10.97	-28.2	-193.8	183.4	177.0	6.44	28.458	
1,600.0	1,598.7	1,578.1	1,564.4	3.4	4.6	11.46	-31.2	-211.6	189.6	182.7	6.89	27.536	
1,700.0	1,697.6	1,678.0	1,662.6	3.7	5.1	12.07	-34.2	-229.4	193.5	186.2	7.35	26.337	
1,800.0	1,796.6	1,777.9	1,760.9	4.0	5.5	12.67	-37.2	-247.3	197.4	189.5	7.82	25.237	
1,900.0	1,895.5	1,877.8	1,859.2	4.2	5.9	13.25	-40.2	-265.1	201.2	192.9	8.30	24.244	
2,000.0	1,994.4	1,977.7	1,957.4	4.5	6.3	13.81	-43.2	-282.9	205.1	196.3	8.79	23.344	
2,100.0	2,093.3	2,077.7	2,055.7	4.8	6.7	14.34	-46.2	-300.8	209.0	199.8	9.28	22.527	
2,200.0	2,192.3	2,177.6	2,153.9	5.2	7.1	14.86	-49.2	-318.6	213.0	203.2	9.78	21.782	
2,300.0	2,291.2	2,277.5	2,252.2	5.5	7.5	15.35	-52.2	-336.5	216.9	206.6	10.28	21.101	
2,400.0	2,390.1	2,377.4	2,350.4	5.8	7.9	15.83	-55.2	-354.3	220.9	210.1	10.79	20.476	
2,500.0	2,489.0	2,477.3	2,448.7	6.1	8.3	16.29	-58.2	-372.2	224.8	213.5	11.30	19.901	
2,600.0	2,588.0	2,577.2	2,546.9	6.5	8.8	16.74	-61.2	-390.0	228.8	217.0	11.81	19.370	
2,700.0	2,686.9	2,677.1	2,645.2	6.8	9.2	17.17	-64.2	-407.9	232.8	220.5	12.33	18.880	
2,800.0	2,785.8	2,777.0	2,743.4	7.1	9.6	17.59	-67.2	-425.7	236.9	224.0	12.86	18.424	
2,900.0	2,884.7	2,876.9	2,841.7	7.5	10.0	17.99	-70.2	-443.5	240.9	227.5	13.38	18.001	
3,000.0	2,983.7	2,976.8	2,939.9	7.8	10.4	18.38	-73.2	-461.4	244.9	231.0	13.91	17.606	
3,100.0	3,082.6	3,076.7	3,038.2	8.2	10.8	18.75	-76.2	-479.2	249.0	234.5	14.44	17.238	
3,200.0	3,181.5	3,176.6	3,136.4	8.5	11.2	19.12	-79.2	-497.1	253.0	238.1	14.98	16.893	
3,300.0	3,280.5	3,276.5	3,234.7	8.8	11.7	19.47	-82.2	-514.9	257.1	241.6	15.52	16.569	
3,400.0	3,379.4	3,376.4	3,332.9	9.2	12.1	19.81	-85.2	-532.8	261.2	245.1	16.06	16.266	
3,500.0	3,478.3	3,476.3	3,431.2	9.5	12.5	20.14	-88.2	-550.6	265.3	248.7	16.60	15.980	
3,600.0	3,577.2	3,576.2	3,529.4	9.9	12.9	20.47	-91.2	-568.4	269.4	252.2	17.15	15.711	
3,700.0	3,676.2	3,676.1	3,627.7	10.2	13.3	20.78	-94.2	-586.3	273.5	255.8	17.69	15.456	
3,800.0	3,775.1	3,776.0	3,726.0	10.6	13.7	21.08	-97.2	-604.1	277.6	259.3	18.24	15.216	
3,900.0	3,874.0	3,875.9	3,824.2	10.9	14.1	21.37	-100.2	-622.0	281.7	262.9	18.79	14.989	
4,000.0	3,972.9	3,975.8	3,922.5	11.3	14.6	21.66	-103.2	-639.8	285.8	266.5	19.35	14.773	
4,100.0	4,071.9	4,075.7	4,020.7	11.7	15.0	21.93	-106.2	-657.7	290.0	270.1	19.90	14.568	
4,200.0	4,170.8	4,175.7	4,119.0	12.0	15.4	22.20	-109.2	-675.5	294.1	273.6	20.46	14.374	
4,300.0	4,269.7	4,275.6	4,217.2	12.4	15.8	22.46	-112.2	-693.4	298.3	277.2	21.02	14.188	
4,400.0	4,368.6	4,375.5	4,315.5	12.7	16.2	22.72	-115.2	-711.2	302.4	280.8	21.58	14.012	
4,500.0	4,467.6	4,475.4	4,413.7	13.1	16.6	22.97	-118.2	-729.0	306.6	284.4	22.14	13.844	
4,600.0	4,566.5	4,575.3	4,512.0	13.4	17.1	23.21	-121.2	-746.9	310.7	288.0	22.71	13.683	
4,700.0	4,665.6	4,675.1	4,610.2	13.7	17.5	23.39	-124.2	-764.7	316.1	292.8	23.23	13.603	
4,800.0	4,765.1	4,774.8	4,708.2	14.0	17.9	23.35	-127.2	-782.5	324.6	300.9	23.67	13.709	
4,900.0	4,864.9	4,874.0	4,805.8	14.1	18.3	23.11	-130.2	-800.2	336.2	312.2	24.06	13.976	
5,000.0	4,964.8	4,972.9	4,903.0	14.3	18.7	22.69	-133.1	-817.9	351.1	326.7	24.39	14.397	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
5,100.0	5,064.8	5,071.3	4,999.8	14.5	19.1	-86.44	-136.1	-835.5	368.6	343.8	24.71	14.912	
5,200.0	5,164.8	5,169.6	5,096.5	14.6	19.5	-87.05	-139.0	-853.0	386.2	361.1	25.10	15.390	
5,300.0	5,264.8	5,268.0	5,193.2	14.8	19.9	-87.61	-142.0	-870.6	403.9	378.5	25.48	15.850	
5,400.0	5,364.8	5,366.3	5,289.9	14.9	20.4	-88.12	-144.9	-888.2	421.7	395.8	25.88	16.294	
5,500.0	5,464.8	5,464.6	5,386.6	15.1	20.8	-88.58	-147.9	-905.7	439.5	413.2	26.28	16.721	
5,600.0	5,564.8	5,563.4	5,483.8	15.3	21.2	-89.02	-150.9	-923.4	457.3	430.6	26.69	17.133	
5,700.0	5,664.8	5,680.9	5,599.7	15.4	21.5	-89.44	-154.0	-941.9	473.0	445.9	27.09	17.463	
5,800.0	5,764.8	5,799.8	5,717.8	15.6	21.8	-89.73	-156.3	-955.9	484.8	457.3	27.48	17.642	
5,900.0	5,864.8	5,919.6	5,837.2	15.8	22.0	-89.92	-157.9	-965.1	492.4	464.6	27.87	17.671	
6,000.0	5,964.8	6,040.1	5,957.6	15.9	22.2	-90.00	-158.6	-969.3	496.0	467.7	28.26	17.552	
6,100.0	6,064.8	6,147.3	6,064.8	16.1	22.3	-90.00	-158.6	-969.6	496.2	467.6	28.64	17.329	
6,200.0	6,164.8	6,247.3	6,164.8	16.3	22.5	-90.00	-158.6	-969.6	496.2	467.2	29.01	17.107	
6,300.0	6,264.8	6,347.3	6,264.8	16.5	22.6	-90.00	-158.6	-969.6	496.2	466.8	29.38	16.890	
6,400.0	6,364.8	6,447.3	6,364.8	16.6	22.7	-90.00	-158.6	-969.6	496.2	466.5	29.75	16.678	
6,500.0	6,464.8	6,547.3	6,464.8	16.8	22.8	-90.00	-158.6	-969.6	496.2	466.1	30.13	16.469	
6,600.0	6,564.8	6,647.3	6,564.8	17.0	23.0	-90.00	-158.6	-969.6	496.2	465.7	30.51	16.265	
6,659.9	6,624.8	6,707.3	6,624.8	17.1	23.0	-89.75	-156.5	-969.6	496.2	465.5	30.75	16.137	
6,700.0	6,664.8	6,746.8	6,664.0	17.2	23.1	-89.16	-151.4	-969.6	496.2	465.3	30.94	16.040	
6,800.0	6,764.8	6,840.4	6,754.4	17.3	23.2	-86.42	-127.6	-969.5	497.2	465.7	31.48	15.791	
6,900.0	6,864.8	6,923.4	6,829.8	17.5	23.2	-82.50	-93.3	-969.3	501.4	469.3	32.12	15.612	
7,000.0	6,964.8	6,993.9	6,889.0	17.7	23.2	-78.20	-55.0	-969.2	512.1	479.3	32.80	15.616	
7,100.0	7,064.4	7,050.0	6,932.0	17.9	23.3	-73.10	-19.1	-969.0	529.8	496.1	33.68	15.729	
7,200.0	7,160.8	7,116.6	6,977.7	18.0	23.3	-67.32	29.2	-968.8	550.4	516.1	34.28	16.056	
7,300.0	7,250.4	7,175.7	7,012.8	18.1	23.3	-62.56	76.7	-968.6	571.7	537.4	34.32	16.657	
7,400.0	7,330.0	7,233.9	7,041.9	18.1	23.4	-58.61	127.1	-968.4	591.9	558.3	33.62	17.604	
7,500.0	7,396.6	7,300.0	7,068.0	18.2	23.5	-55.32	187.8	-968.1	609.5	576.9	32.59	18.701	
7,600.0	7,447.7	7,350.0	7,082.4	18.3	23.6	-53.23	235.7	-967.9	623.2	591.5	31.68	19.672	
7,700.0	7,481.6	7,400.0	7,092.2	18.6	23.7	-51.85	284.7	-967.7	632.5	601.1	31.37	20.159	
7,800.0	7,497.0	7,461.9	7,097.8	19.0	23.9	-51.16	346.3	-967.5	636.7	604.5	32.16	19.801	
7,900.0	7,497.6	7,547.7	7,097.7	19.7	24.3	-51.11	432.1	-967.1	637.0	603.3	33.66	18.923	
8,000.0	7,497.3	7,647.7	7,097.2	20.5	24.8	-51.10	532.1	-966.7	637.0	601.7	35.31	18.039	
8,100.0	7,496.9	7,747.7	7,096.8	21.5	25.6	-51.09	632.1	-966.3	637.0	599.9	37.15	17.147	
8,200.0	7,496.6	7,847.7	7,096.3	22.7	26.4	-51.07	732.1	-965.8	637.0	597.9	39.15	16.271	
8,300.0	7,496.2	7,947.7	7,095.8	23.9	27.4	-51.06	832.1	-965.4	637.1	595.8	41.29	15.429	
8,400.0	7,495.9	8,047.7	7,095.4	25.3	28.6	-51.05	932.1	-965.0	637.1	593.5	43.54	14.631	
8,500.0	7,495.5	8,147.7	7,094.9	26.7	29.8	-51.04	1,032.1	-964.6	637.1	591.2	45.90	13.880	
8,600.0	7,495.2	8,247.7	7,094.4	28.1	31.1	-51.02	1,132.1	-964.1	637.1	588.8	48.34	13.180	
8,700.0	7,494.8	8,347.7	7,093.9	29.7	32.4	-51.01	1,232.1	-963.7	637.2	586.3	50.85	12.529	
8,800.0	7,494.5	8,447.7	7,093.5	31.2	33.8	-51.00	1,332.1	-963.3	637.2	583.8	53.43	11.926	
8,900.0	7,494.1	8,547.7	7,093.0	32.8	35.3	-50.99	1,432.1	-962.9	637.2	581.1	56.06	11.367	
9,000.0	7,493.8	8,647.7	7,092.5	34.5	36.8	-50.97	1,532.1	-962.4	637.2	578.5	58.73	10.850	
9,100.0	7,493.4	8,747.7	7,092.1	36.1	38.4	-50.96	1,632.1	-962.0	637.2	575.8	61.45	10.371	
9,200.0	7,493.1	8,847.7	7,091.6	37.8	40.0	-50.95	1,732.1	-961.6	637.3	573.1	64.20	9.927	
9,300.0	7,492.7	8,947.7	7,091.1	39.5	41.6	-50.94	1,832.1	-961.2	637.3	570.3	66.98	9.515	
9,400.0	7,492.4	9,047.7	7,090.6	41.2	43.2	-50.92	1,932.1	-960.8	637.3	567.5	69.78	9.133	
9,500.0	7,492.0	9,147.7	7,090.2	43.0	44.9	-50.91	2,032.1	-960.3	637.3	564.7	72.61	8.777	
9,600.0	7,491.7	9,247.7	7,089.7	44.7	46.6	-50.90	2,132.1	-959.9	637.4	561.9	75.46	8.446	
9,700.0	7,491.3	9,347.7	7,089.2	46.5	48.3	-50.89	2,232.1	-959.5	637.4	559.1	78.33	8.137	
9,800.0	7,491.0	9,447.7	7,088.8	48.3	50.0	-50.87	2,332.1	-959.1	637.4	556.2	81.22	7.848	
9,900.0	7,490.6	9,547.7	7,088.3	50.1	51.7	-50.86	2,432.1	-958.6	637.4	553.3	84.12	7.578	
10,000.0	7,490.3	9,647.7	7,087.8	51.9	53.5	-50.85	2,532.1	-958.2	637.5	550.4	87.03	7.325	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
10,100.0	7,489.9	9,747.7	7,087.3	53.7	55.2	-50.84	2,632.1	-957.8	637.5	547.5	89.95	7.087	
10,200.0	7,489.6	9,847.7	7,086.9	55.5	57.0	-50.82	2,732.1	-957.4	637.5	544.6	92.89	6.863	
10,300.0	7,489.2	9,947.7	7,086.4	57.3	58.8	-50.81	2,832.1	-956.9	637.5	541.7	95.83	6.653	
10,400.0	7,488.9	10,047.7	7,085.9	59.1	60.5	-50.80	2,932.1	-956.5	637.5	538.8	98.78	6.454	
10,500.0	7,488.5	10,147.7	7,085.5	60.9	62.3	-50.79	3,032.1	-956.1	637.6	535.8	101.74	6.266	
10,600.0	7,488.2	10,247.7	7,085.0	62.8	64.1	-50.77	3,132.1	-955.7	637.6	532.9	104.71	6.089	
10,700.0	7,487.8	10,347.7	7,084.5	64.6	65.9	-50.76	3,232.1	-955.2	637.6	529.9	107.69	5.921	
10,800.0	7,487.5	10,447.7	7,084.0	66.5	67.7	-50.75	3,332.1	-954.8	637.6	527.0	110.66	5.762	
10,900.0	7,487.1	10,547.7	7,083.6	68.3	69.6	-50.74	3,432.1	-954.4	637.7	524.0	113.65	5.611	
11,000.0	7,486.8	10,647.7	7,083.1	70.2	71.4	-50.72	3,532.1	-954.0	637.7	521.0	116.64	5.467	
11,100.0	7,486.4	10,747.7	7,082.6	72.0	73.2	-50.71	3,632.1	-953.5	637.7	518.1	119.63	5.331	
11,200.0	7,486.1	10,847.7	7,082.2	73.9	75.0	-50.70	3,732.1	-953.1	637.7	515.1	122.63	5.201	
11,300.0	7,485.7	10,947.7	7,081.7	75.7	76.9	-50.69	3,832.1	-952.7	637.8	512.1	125.63	5.076	
11,400.0	7,485.4	11,047.7	7,081.2	77.6	78.7	-50.67	3,932.1	-952.3	637.8	509.1	128.63	4.958	
11,500.0	7,485.1	11,147.7	7,080.7	79.5	80.6	-50.66	4,032.1	-951.8	637.8	506.2	131.64	4.845	
11,600.0	7,484.7	11,247.7	7,080.3	81.3	82.4	-50.65	4,132.1	-951.4	637.8	503.2	134.65	4.737	
11,700.0	7,484.4	11,347.7	7,079.8	83.2	84.2	-50.64	4,232.1	-951.0	637.8	500.2	137.66	4.633	
11,800.0	7,484.0	11,447.7	7,079.3	85.1	86.1	-50.62	4,332.1	-950.6	637.9	497.2	140.68	4.534	
11,900.0	7,483.7	11,547.7	7,078.9	86.9	88.0	-50.61	4,432.1	-950.1	637.9	494.2	143.69	4.439	
12,000.0	7,483.3	11,647.7	7,078.4	88.8	89.8	-50.60	4,532.1	-949.7	637.9	491.2	146.71	4.348	
12,049.9	7,483.1	11,697.6	7,078.2	89.7	90.7	-50.59	4,582.0	-949.5	637.9	489.7	148.22	4.304	
12,088.1	7,483.0	11,732.0	7,078.0	90.5	91.4	-50.59	4,616.3	-949.4	638.0	488.6	149.31	4.273 SF	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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	-96.74	-3.6	-30.8	31.0				
100.0	100.0	100.0	100.0	0.1	0.1	-96.74	-3.6	-30.8	31.0	30.8	0.22	138.035	
200.0	200.0	200.0	200.0	0.3	0.3	-96.74	-3.6	-30.8	31.0	30.4	0.67	46.012	
300.0	300.0	300.0	300.0	0.6	0.6	-96.74	-3.6	-30.8	31.0	29.9	1.12	27.607	
400.0	400.0	400.0	400.0	0.8	0.8	-96.74	-3.6	-30.8	31.0	29.5	1.57	19.719	
500.0	500.0	500.0	500.0	1.0	1.0	-96.74	-3.6	-30.8	31.0	29.0	2.02	15.337	
600.0	600.0	600.0	600.0	1.2	1.2	-96.74	-3.6	-30.8	31.0	28.6	2.47	12.549	CC, ES
700.0	700.0	698.9	698.9	1.5	1.4	-97.02	-4.0	-32.5	32.7	29.8	2.90	11.274	
800.0	800.0	797.6	797.4	1.7	1.6	-97.71	-5.1	-37.5	37.9	34.6	3.33	11.375	
900.0	900.0	895.7	895.2	1.9	1.9	-98.51	-6.8	-45.7	46.5	42.7	3.78	12.309	
1,000.0	1,000.0	993.2	992.0	2.1	2.1	-99.23	-9.3	-57.2	58.5	54.2	4.24	13.773	
1,100.0	1,100.0	1,091.6	1,089.3	2.4	2.4	-99.80	-12.3	-71.1	73.0	68.2	4.74	15.391	
1,200.0	1,200.0	1,190.5	1,187.1	2.6	2.7	-100.19	-15.3	-85.4	87.7	82.4	5.26	16.673	
1,300.0	1,300.0	1,289.6	1,285.2	2.8	3.0	8.17	-18.4	-99.6	100.7	95.1	5.52	18.250	
1,400.0	1,399.8	1,389.2	1,383.6	3.0	3.3	8.29	-21.5	-113.9	110.2	104.3	5.93	18.592	
1,500.0	1,499.5	1,489.0	1,482.4	3.2	3.7	8.65	-24.5	-128.3	116.3	110.0	6.35	18.329	
1,600.0	1,598.7	1,588.9	1,581.2	3.4	4.0	9.25	-27.6	-142.6	119.0	112.2	6.77	17.580	
1,700.0	1,697.6	1,688.9	1,680.1	3.7	4.4	10.03	-30.7	-157.0	119.3	112.1	7.21	16.540	
1,800.0	1,796.6	1,788.9	1,779.0	4.0	4.7	10.80	-33.8	-171.4	119.6	111.9	7.67	15.591	
1,900.0	1,895.5	1,888.9	1,877.9	4.2	5.0	11.57	-36.9	-185.7	119.9	111.8	8.14	14.739	
2,000.0	1,994.4	1,988.9	1,976.8	4.5	5.4	12.34	-39.9	-200.1	120.3	111.6	8.61	13.969	
2,100.0	2,093.3	2,088.8	2,075.7	4.8	5.7	13.11	-43.0	-214.5	120.6	111.5	9.09	13.272	
2,200.0	2,192.3	2,188.8	2,174.6	5.2	6.1	13.87	-46.1	-228.8	121.0	111.4	9.57	12.639	
2,300.0	2,291.2	2,288.8	2,273.5	5.5	6.5	14.62	-49.2	-243.2	121.4	111.3	10.06	12.062	
2,400.0	2,390.1	2,388.8	2,372.4	5.8	6.8	15.37	-52.3	-257.6	121.8	111.2	10.56	11.534	
2,500.0	2,489.0	2,488.8	2,471.3	6.1	7.2	16.11	-55.3	-272.0	122.2	111.2	11.06	11.049	
2,600.0	2,588.0	2,588.8	2,570.2	6.5	7.5	16.85	-58.4	-286.3	122.7	111.1	11.57	10.604	
2,700.0	2,686.9	2,688.8	2,669.1	6.8	7.9	17.59	-61.5	-300.7	123.2	111.1	12.08	10.192	
2,800.0	2,785.8	2,788.8	2,768.0	7.1	8.2	18.31	-64.6	-315.1	123.7	111.1	12.60	9.812	
2,900.0	2,884.7	2,888.7	2,866.9	7.5	8.6	19.03	-67.7	-329.4	124.2	111.1	13.13	9.458	
3,000.0	2,983.7	2,988.7	2,965.8	7.8	8.9	19.75	-70.7	-343.8	124.7	111.1	13.66	9.130	
3,100.0	3,082.6	3,088.7	3,064.7	8.2	9.3	20.46	-73.8	-358.2	125.3	111.1	14.20	8.825	
3,200.0	3,181.5	3,188.7	3,163.6	8.5	9.7	21.16	-76.9	-372.5	125.9	111.1	14.74	8.539	
3,300.0	3,280.5	3,288.7	3,262.5	8.8	10.0	21.86	-80.0	-386.9	126.5	111.2	15.29	8.272	
3,400.0	3,379.4	3,388.7	3,361.4	9.2	10.4	22.55	-83.1	-401.3	127.1	111.2	15.84	8.022	
3,500.0	3,478.3	3,488.7	3,460.3	9.5	10.7	23.23	-86.1	-415.7	127.7	111.3	16.40	7.788	
3,600.0	3,577.2	3,588.6	3,559.2	9.9	11.1	23.91	-89.2	-430.0	128.3	111.4	16.96	7.567	
3,700.0	3,676.2	3,688.6	3,658.1	10.2	11.5	24.58	-92.3	-444.4	129.0	111.5	17.53	7.360	
3,800.0	3,775.1	3,788.6	3,757.0	10.6	11.8	25.24	-95.4	-458.8	129.7	111.6	18.10	7.164	
3,900.0	3,874.0	3,888.6	3,855.9	10.9	12.2	25.89	-98.5	-473.1	130.4	111.7	18.68	6.979	
4,000.0	3,972.9	3,988.6	3,954.8	11.3	12.5	26.54	-101.5	-487.5	131.1	111.9	19.27	6.805	
4,100.0	4,071.9	4,088.6	4,053.7	11.7	12.9	27.18	-104.6	-501.9	131.9	112.0	19.86	6.640	
4,200.0	4,170.8	4,188.6	4,152.6	12.0	13.3	27.81	-107.7	-516.3	132.6	112.2	20.45	6.483	
4,300.0	4,269.7	4,288.6	4,251.5	12.4	13.6	28.44	-110.8	-530.6	133.4	112.3	21.05	6.335	
4,400.0	4,368.6	4,388.5	4,350.4	12.7	14.0	29.06	-113.9	-545.0	134.2	112.5	21.66	6.194	
4,500.0	4,467.6	4,488.5	4,449.3	13.1	14.3	29.67	-116.9	-559.4	135.0	112.7	22.27	6.061	
4,600.0	4,566.5	4,588.5	4,548.2	13.4	14.7	30.28	-120.0	-573.7	135.8	112.9	22.88	5.934	
4,700.0	4,665.6	4,688.5	4,647.1	13.7	15.1	30.62	-123.1	-588.1	137.7	114.2	23.44	5.873	
4,800.0	4,765.1	4,788.4	4,745.9	14.0	15.4	30.28	-126.2	-602.5	142.6	118.7	23.86	5.975	
4,900.0	4,864.9	4,888.0	4,844.5	14.1	15.8	29.32	-129.2	-616.8	150.5	126.3	24.18	6.224	
5,000.0	4,964.8	4,987.3	4,942.7	14.3	16.1	27.91	-132.3	-631.0	161.5	137.1	24.41	6.617	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
5,100.0	5,064.8	5,086.2	5,040.6	14.5	16.5	-82.30	-135.4	-645.3	175.1	150.5	24.62	7.112	
5,200.0	5,164.8	5,185.2	5,138.4	14.6	16.9	-83.81	-138.4	-659.5	189.0	164.1	24.90	7.590	
5,300.0	5,264.8	5,284.1	5,236.3	14.8	17.2	-85.11	-141.4	-673.7	203.1	177.8	25.21	8.054	
5,400.0	5,364.8	5,383.0	5,334.1	14.9	17.6	-86.24	-144.5	-687.9	217.2	191.6	25.54	8.502	
5,500.0	5,464.8	5,481.9	5,431.9	15.1	17.9	-87.23	-147.5	-702.1	231.3	205.5	25.89	8.935	
5,600.0	5,564.8	5,580.8	5,529.8	15.3	18.3	-88.11	-150.6	-716.3	245.6	219.3	26.25	9.355	
5,700.0	5,664.8	5,684.5	5,632.4	15.4	18.6	-88.90	-153.7	-730.8	259.4	232.8	26.62	9.745	
5,800.0	5,764.8	5,793.7	5,741.0	15.6	18.9	-89.49	-156.2	-742.4	270.1	243.1	26.97	10.014	
5,900.0	5,864.8	5,903.8	5,850.7	15.8	19.1	-89.84	-157.8	-750.1	277.1	249.7	27.33	10.136	
6,000.0	5,964.8	6,014.2	5,961.1	15.9	19.3	-90.00	-158.6	-753.7	280.3	252.6	27.70	10.117	
6,100.0	6,064.8	6,117.9	6,064.8	16.1	19.4	-90.01	-158.6	-753.9	280.5	252.4	28.09	9.988	
6,200.0	6,164.8	6,217.9	6,164.8	16.3	19.5	-90.01	-158.6	-753.9	280.5	252.0	28.46	9.855	
6,300.0	6,264.8	6,317.9	6,264.8	16.5	19.7	-90.01	-158.6	-753.9	280.5	251.7	28.84	9.726	
6,400.0	6,364.8	6,417.9	6,364.8	16.6	19.8	-90.01	-158.6	-753.9	280.5	251.3	29.22	9.599	
6,500.0	6,464.8	6,517.9	6,464.8	16.8	20.0	-90.01	-158.6	-753.9	280.5	250.9	29.61	9.474	
6,600.0	6,564.8	6,617.9	6,564.8	17.0	20.1	-90.01	-158.6	-753.9	280.5	250.5	29.99	9.353	
6,700.0	6,664.8	6,717.9	6,664.8	17.2	20.3	-90.01	-158.6	-753.9	280.5	250.1	30.38	9.233	
6,800.0	6,764.8	6,817.9	6,764.8	17.3	20.4	-90.01	-158.6	-753.9	280.5	249.7	30.77	9.117	
6,845.2	6,810.1	6,863.2	6,810.1	17.4	20.5	-89.80	-157.6	-753.9	280.5	249.6	30.96	9.062	
6,900.0	6,864.8	6,917.3	6,863.8	17.5	20.5	-88.53	-151.4	-753.9	280.6	249.3	31.24	8.980	
7,000.0	6,964.8	7,010.7	6,954.0	17.7	20.6	-83.71	-127.7	-753.8	282.3	250.4	31.94	8.838	
7,100.0	7,064.4	7,096.4	7,031.9	17.9	20.7	-77.40	-92.1	-753.7	288.3	255.5	32.83	8.782	
7,200.0	7,160.8	7,178.2	7,099.8	18.0	20.7	-71.49	-46.7	-753.5	297.3	263.9	33.40	8.902	
7,300.0	7,250.4	7,257.0	7,157.7	18.1	20.8	-66.43	6.6	-753.3	307.9	274.4	33.45	9.203	
7,400.0	7,330.0	7,333.5	7,205.7	18.1	20.8	-62.28	66.1	-753.1	318.6	285.6	33.00	9.655	
7,500.0	7,396.6	7,408.4	7,243.7	18.2	20.9	-59.06	130.5	-752.9	328.4	296.1	32.25	10.181	
7,600.0	7,447.7	7,482.0	7,271.7	18.3	21.0	-56.73	198.6	-752.6	336.3	304.6	31.63	10.630	
7,700.0	7,481.6	7,550.0	7,288.8	18.6	21.2	-55.29	264.3	-752.4	341.7	310.1	31.58	10.819	
7,800.0	7,497.0	7,627.3	7,297.6	19.0	21.5	-54.58	341.1	-752.1	344.2	311.7	32.51	10.589	
7,900.0	7,497.6	7,718.2	7,297.7	19.7	21.9	-54.53	432.0	-751.8	344.4	310.4	34.04	10.119	
8,000.0	7,497.3	7,818.2	7,297.3	20.5	22.6	-54.51	532.0	-751.5	344.5	308.8	35.73	9.642	
8,100.0	7,496.9	7,918.2	7,296.8	21.5	23.5	-54.49	632.0	-751.1	344.6	307.0	37.62	9.159	
8,200.0	7,496.6	8,018.2	7,296.3	22.7	24.5	-54.48	732.0	-750.7	344.6	305.0	39.68	8.685	
8,300.0	7,496.2	8,118.2	7,295.8	23.9	25.6	-54.46	832.0	-750.4	344.7	302.8	41.89	8.228	
8,400.0	7,495.9	8,218.2	7,295.4	25.3	26.9	-54.44	932.0	-750.0	344.8	300.6	44.23	7.795	
8,500.0	7,495.5	8,318.2	7,294.9	26.7	28.2	-54.43	1,032.0	-749.7	344.9	298.2	46.67	7.389	
8,600.0	7,495.2	8,418.2	7,294.4	28.1	29.6	-54.41	1,132.0	-749.3	344.9	295.7	49.20	7.011	
8,700.0	7,494.8	8,518.2	7,294.0	29.7	31.0	-54.39	1,232.0	-749.0	345.0	293.2	51.80	6.660	
8,800.0	7,494.5	8,618.2	7,293.5	31.2	32.5	-54.38	1,332.0	-748.6	345.1	290.6	54.47	6.334	
8,900.0	7,494.1	8,718.2	7,293.0	32.8	34.1	-54.36	1,432.0	-748.3	345.1	287.9	57.20	6.034	
9,000.0	7,493.8	8,818.2	7,292.5	34.5	35.7	-54.34	1,532.0	-747.9	345.2	285.2	59.97	5.756	
9,100.0	7,493.4	8,918.2	7,292.1	36.1	37.3	-54.33	1,632.0	-747.5	345.3	282.5	62.79	5.499	
9,200.0	7,493.1	9,018.2	7,291.6	37.8	38.9	-54.31	1,732.0	-747.2	345.3	279.7	65.64	5.261	
9,300.0	7,492.7	9,118.2	7,291.1	39.5	40.6	-54.29	1,832.0	-746.8	345.4	276.9	68.52	5.041	
9,400.0	7,492.4	9,218.2	7,290.7	41.2	42.3	-54.28	1,932.0	-746.5	345.5	274.0	71.43	4.836	
9,500.0	7,492.0	9,318.2	7,290.2	43.0	44.0	-54.26	2,032.0	-746.1	345.6	271.2	74.37	4.646	
9,600.0	7,491.7	9,418.2	7,289.7	44.7	45.7	-54.24	2,132.0	-745.8	345.6	268.3	77.32	4.470	
9,700.0	7,491.3	9,518.2	7,289.2	46.5	47.4	-54.23	2,231.9	-745.4	345.7	265.4	80.30	4.305	
9,800.0	7,491.0	9,618.2	7,288.8	48.3	49.2	-54.21	2,331.9	-745.0	345.8	262.5	83.29	4.151	
9,900.0	7,490.6	9,718.2	7,288.3	50.1	50.9	-54.19	2,431.9	-744.7	345.8	259.5	86.29	4.008	
10,000.0	7,490.3	9,818.2	7,287.8	51.9	52.7	-54.18	2,531.9	-744.3	345.9	256.6	89.31	3.873	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
10,100.0	7,489.9	9,918.2	7,287.4	53.7	54.5	-54.16	2,631.9	-744.0	346.0	253.6	92.34	3.747	
10,200.0	7,489.6	10,018.2	7,286.9	55.5	56.3	-54.14	2,731.9	-743.6	346.0	250.7	95.38	3.628	
10,300.0	7,489.2	10,118.2	7,286.4	57.3	58.1	-54.13	2,831.9	-743.3	346.1	247.7	98.43	3.516	
10,400.0	7,488.9	10,218.2	7,286.0	59.1	59.9	-54.11	2,931.9	-742.9	346.2	244.7	101.49	3.411	
10,500.0	7,488.5	10,318.2	7,285.5	60.9	61.7	-54.09	3,031.9	-742.6	346.3	241.7	104.56	3.312	
10,600.0	7,488.2	10,418.2	7,285.0	62.8	63.5	-54.08	3,131.9	-742.2	346.3	238.7	107.63	3.218	
10,700.0	7,487.8	10,518.2	7,284.5	64.6	65.3	-54.06	3,231.9	-741.8	346.4	235.7	110.71	3.129	
10,800.0	7,487.5	10,618.2	7,284.1	66.5	67.2	-54.04	3,331.9	-741.5	346.5	232.7	113.79	3.045	
10,900.0	7,487.1	10,718.2	7,283.6	68.3	69.0	-54.03	3,431.9	-741.1	346.5	229.7	116.88	2.965	
11,000.0	7,486.8	10,818.2	7,283.1	70.2	70.8	-54.01	3,531.9	-740.8	346.6	226.6	119.98	2.889	
11,100.0	7,486.4	10,918.2	7,282.7	72.0	72.7	-53.99	3,631.9	-740.4	346.7	223.6	123.08	2.817	
11,200.0	7,486.1	11,018.2	7,282.2	73.9	74.5	-53.98	3,731.9	-740.1	346.7	220.6	126.18	2.748	
11,300.0	7,485.7	11,118.2	7,281.7	75.7	76.4	-53.96	3,831.9	-739.7	346.8	217.5	129.29	2.683	
11,400.0	7,485.4	11,218.2	7,281.2	77.6	78.2	-53.95	3,931.9	-739.4	346.9	214.5	132.40	2.620	
11,500.0	7,485.1	11,318.2	7,280.8	79.5	80.1	-53.93	4,031.9	-739.0	347.0	211.5	135.51	2.560	
11,600.0	7,484.7	11,418.2	7,280.3	81.3	81.9	-53.91	4,131.9	-738.6	347.0	208.4	138.62	2.503	
11,700.0	7,484.4	11,518.2	7,279.8	83.2	83.8	-53.90	4,231.9	-738.3	347.1	205.4	141.74	2.449	
11,800.0	7,484.0	11,618.2	7,279.4	85.1	85.6	-53.88	4,331.9	-737.9	347.2	202.3	144.86	2.397	
11,900.0	7,483.7	11,718.2	7,278.9	86.9	87.5	-53.86	4,431.9	-737.6	347.2	199.3	147.98	2.347	
12,000.0	7,483.3	11,818.2	7,278.4	88.8	89.4	-53.85	4,531.9	-737.2	347.3	196.2	151.10	2.299	
12,088.1	7,483.0	11,905.5	7,278.0	90.5	91.0	-53.83	4,619.2	-736.9	347.4	193.5	153.84	2.258	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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	0.0	-16.8	16.8	16.8	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-16.8	16.8	16.6	0.22	74.771	
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-16.8	16.8	16.1	0.67	24.924	
300.0	300.0	300.0	300.0	0.6	0.6	-90.00	0.0	-16.8	16.8	15.7	1.12	14.954	
400.0	400.0	400.0	400.0	0.8	0.8	-90.00	0.0	-16.8	16.8	15.2	1.57	10.682	
500.0	500.0	500.0	500.0	1.0	1.0	-90.00	0.0	-16.8	16.8	14.8	2.02	8.308	
600.0	600.0	600.0	600.0	1.2	1.2	-90.00	0.0	-16.8	16.8	14.3	2.47	6.797	
700.0	700.0	700.0	700.0	1.5	1.5	-90.00	0.0	-16.8	16.8	13.9	2.92	5.752	
800.0	800.0	800.0	800.0	1.7	1.7	-90.00	0.0	-16.8	16.8	13.4	3.37	4.985	CC, ES
900.0	900.0	899.4	899.4	1.9	1.9	-91.32	-0.4	-18.5	18.5	14.7	3.80	4.862	
1,000.0	1,000.0	998.6	998.4	2.1	2.1	-94.14	-1.7	-23.5	23.6	19.4	4.23	5.578	
1,100.0	1,100.0	1,097.2	1,096.7	2.4	2.3	-96.84	-3.8	-31.7	32.1	27.5	4.67	6.885	
1,200.0	1,200.0	1,195.2	1,194.0	2.6	2.5	-98.85	-6.7	-43.2	44.1	39.0	5.13	8.604	
1,300.0	1,300.0	1,293.9	1,291.5	2.8	2.8	8.53	-10.3	-57.2	57.0	51.5	5.51	10.360	
1,400.0	1,399.8	1,393.4	1,390.0	3.0	3.1	8.20	-14.0	-71.5	66.7	60.8	5.90	11.300	
1,500.0	1,499.5	1,493.2	1,488.6	3.2	3.4	8.35	-17.6	-85.9	72.9	66.6	6.31	11.561	
1,600.0	1,598.7	1,593.1	1,587.5	3.4	3.7	8.86	-21.3	-100.3	75.7	69.0	6.72	11.267	
1,700.0	1,697.6	1,693.1	1,686.4	3.7	4.1	9.64	-25.0	-114.7	76.2	69.0	7.16	10.640	
1,800.0	1,796.6	1,793.1	1,785.3	4.0	4.4	10.42	-28.6	-129.1	76.6	68.9	7.61	10.061	
1,900.0	1,895.5	1,893.1	1,884.1	4.2	4.7	11.20	-32.3	-143.5	77.0	68.9	8.07	9.537	
2,000.0	1,994.4	1,993.1	1,983.0	4.5	5.1	11.96	-36.0	-157.9	77.4	68.8	8.54	9.064	
2,100.0	2,093.3	2,093.1	2,081.9	4.8	5.4	12.71	-39.6	-172.2	77.8	68.8	9.01	8.634	
2,200.0	2,192.3	2,193.1	2,180.8	5.2	5.8	13.46	-43.3	-186.6	78.2	68.8	9.49	8.244	
2,300.0	2,291.2	2,293.1	2,279.7	5.5	6.1	14.20	-47.0	-201.0	78.7	68.7	9.98	7.886	
2,400.0	2,390.1	2,393.1	2,378.6	5.8	6.5	14.93	-50.7	-215.4	79.2	68.7	10.47	7.559	
2,500.0	2,489.0	2,493.1	2,477.5	6.1	6.8	15.65	-54.3	-229.8	79.6	68.7	10.97	7.259	
2,600.0	2,588.0	2,593.1	2,576.3	6.5	7.2	16.36	-58.0	-244.2	80.1	68.7	11.48	6.982	
2,700.0	2,686.9	2,693.1	2,675.2	6.8	7.5	17.07	-61.7	-258.6	80.6	68.7	11.99	6.727	
2,800.0	2,785.8	2,793.1	2,774.1	7.1	7.9	17.76	-65.3	-273.0	81.2	68.7	12.51	6.490	
2,900.0	2,884.7	2,893.1	2,873.0	7.5	8.2	18.45	-69.0	-287.4	81.7	68.7	13.03	6.271	
3,000.0	2,983.7	2,993.0	2,971.9	7.8	8.6	19.13	-72.7	-301.8	82.2	68.7	13.56	6.067	
3,100.0	3,082.6	3,093.0	3,070.8	8.2	8.9	19.79	-76.4	-316.2	82.8	68.7	14.09	5.876	
3,200.0	3,181.5	3,193.0	3,169.6	8.5	9.3	20.45	-80.0	-330.6	83.4	68.7	14.63	5.699	
3,300.0	3,280.5	3,293.0	3,268.5	8.8	9.7	21.10	-83.7	-345.0	83.9	68.8	15.17	5.532	
3,400.0	3,379.4	3,393.0	3,367.4	9.2	10.0	21.74	-87.4	-359.4	84.5	68.8	15.72	5.377	
3,500.0	3,478.3	3,493.0	3,466.3	9.5	10.4	22.38	-91.0	-373.7	85.1	68.8	16.27	5.230	
3,600.0	3,577.2	3,593.0	3,565.2	9.9	10.7	23.00	-94.7	-388.1	85.7	68.9	16.83	5.093	
3,700.0	3,676.2	3,693.0	3,664.1	10.2	11.1	23.62	-98.4	-402.5	86.3	68.9	17.39	4.963	
3,800.0	3,775.1	3,793.0	3,763.0	10.6	11.5	24.22	-102.1	-416.9	87.0	69.0	17.96	4.841	
3,900.0	3,874.0	3,893.0	3,861.8	10.9	11.8	24.82	-105.7	-431.3	87.6	69.1	18.54	4.726	
4,000.0	3,972.9	3,993.0	3,960.7	11.3	12.2	25.41	-109.4	-445.7	88.2	69.1	19.11	4.616	
4,100.0	4,071.9	4,093.0	4,059.6	11.7	12.5	25.99	-113.1	-460.1	88.9	69.2	19.70	4.513	
4,200.0	4,170.8	4,193.0	4,158.5	12.0	12.9	26.56	-116.7	-474.5	89.6	69.3	20.28	4.415	
4,300.0	4,269.7	4,293.0	4,257.4	12.4	13.3	27.12	-120.4	-488.9	90.2	69.4	20.87	4.323	
4,400.0	4,368.6	4,393.0	4,356.3	12.7	13.6	27.68	-124.1	-503.3	90.9	69.4	21.47	4.234	
4,500.0	4,467.6	4,493.0	4,455.1	13.1	14.0	28.22	-127.8	-517.7	91.6	69.5	22.07	4.151	
4,600.0	4,566.5	4,592.9	4,554.0	13.4	14.4	28.76	-131.4	-532.1	92.3	69.6	22.67	4.071	
4,700.0	4,665.6	4,692.9	4,652.9	13.7	14.7	28.93	-135.1	-546.5	94.1	70.9	23.21	4.054	
4,800.0	4,765.1	4,792.8	4,751.7	14.0	15.1	28.15	-138.8	-560.8	98.9	75.3	23.59	4.194	
4,900.0	4,864.9	4,892.4	4,850.2	14.1	15.4	26.62	-142.4	-575.2	106.9	83.0	23.85	4.482	
5,000.0	4,964.8	4,991.7	4,948.4	14.3	15.8	24.60	-146.1	-589.5	118.1	94.1	24.03	4.914	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
5,100.0	5,064.8	5,090.6	5,046.2	14.5	16.2	-86.09	-149.7	-603.7	131.9	107.7	24.21	5.449	
5,200.0	5,164.8	5,193.1	5,147.7	14.6	16.5	-87.86	-153.2	-617.5	145.2	120.8	24.47	5.936	
5,300.0	5,264.8	5,297.9	5,251.8	14.8	16.7	-89.01	-155.9	-628.2	155.3	130.6	24.75	6.276	
5,400.0	5,364.8	5,403.3	5,357.0	14.9	16.9	-89.69	-157.7	-635.1	161.9	136.9	25.07	6.458	
5,500.0	5,464.8	5,509.1	5,462.7	15.1	17.1	-89.98	-158.5	-638.4	165.0	139.6	25.42	6.490	
5,600.0	5,564.8	5,611.2	5,564.8	15.3	17.2	-90.00	-158.6	-638.6	165.2	139.4	25.80	6.404	
5,700.0	5,664.8	5,711.2	5,664.8	15.4	17.4	-90.00	-158.6	-638.6	165.2	139.0	26.17	6.312	
5,800.0	5,764.8	5,811.2	5,764.8	15.6	17.5	-90.00	-158.6	-638.6	165.2	138.7	26.55	6.223	
5,900.0	5,864.8	5,911.2	5,864.8	15.8	17.7	-90.00	-158.6	-638.6	165.2	138.3	26.93	6.135	
6,000.0	5,964.8	6,011.2	5,964.8	15.9	17.8	-90.00	-158.6	-638.6	165.2	137.9	27.31	6.049	
6,100.0	6,064.8	6,111.2	6,064.8	16.1	18.0	-90.00	-158.6	-638.6	165.2	137.5	27.70	5.965	
6,200.0	6,164.8	6,211.2	6,164.8	16.3	18.1	-90.00	-158.6	-638.6	165.2	137.1	28.08	5.883	
6,300.0	6,264.8	6,311.2	6,264.8	16.5	18.3	-90.00	-158.6	-638.6	165.2	136.7	28.47	5.803	
6,400.0	6,364.8	6,411.2	6,364.8	16.6	18.4	-90.00	-158.6	-638.6	165.2	136.3	28.86	5.725	
6,500.0	6,464.8	6,511.2	6,464.8	16.8	18.6	-90.00	-158.6	-638.6	165.2	136.0	29.25	5.648	
6,600.0	6,564.8	6,611.2	6,564.8	17.0	18.7	-90.00	-158.6	-638.6	165.2	135.6	29.64	5.573	
6,700.0	6,664.8	6,711.2	6,664.8	17.2	18.9	-90.00	-158.6	-638.6	165.2	135.2	30.04	5.500	
6,800.0	6,764.8	6,811.2	6,764.8	17.3	19.1	-90.00	-158.6	-638.6	165.2	134.8	30.43	5.428	
6,838.6	6,803.4	6,849.8	6,803.4	17.4	19.1	-89.77	-157.9	-638.6	165.2	134.6	30.60	5.399	
6,900.0	6,864.8	6,910.4	6,863.7	17.5	19.2	-87.49	-151.4	-638.6	165.3	134.4	30.98	5.337	
7,000.0	6,964.8	7,003.8	6,953.9	17.7	19.3	-79.40	-127.7	-638.5	168.3	136.4	31.95	5.268	
7,100.0	7,064.4	7,089.4	7,031.7	17.9	19.4	-69.10	-92.2	-638.4	178.3	145.1	33.20	5.369	
7,200.0	7,160.8	7,171.2	7,099.6	18.0	19.4	-60.29	-46.8	-638.2	192.5	158.7	33.79	5.697	
7,300.0	7,250.4	7,250.0	7,157.6	18.1	19.5	-53.39	6.5	-638.0	208.5	175.1	33.40	6.242	
7,400.0	7,330.0	7,326.5	7,205.5	18.1	19.5	-48.21	65.9	-637.8	224.0	191.9	32.13	6.972	
7,500.0	7,396.6	7,400.0	7,243.0	18.2	19.6	-44.50	129.1	-637.6	237.7	207.3	30.38	7.825	
7,600.0	7,447.7	7,475.0	7,271.6	18.3	19.7	-41.89	198.4	-637.3	248.5	219.7	28.73	8.648	
7,700.0	7,481.6	7,550.0	7,290.0	18.6	19.9	-40.29	271.0	-637.1	255.7	227.9	27.84	9.185	
7,800.0	7,497.0	7,620.2	7,297.6	19.0	20.2	-39.63	340.8	-636.8	259.0	230.8	28.24	9.173	
7,900.0	7,497.6	7,711.0	7,297.7	19.7	20.7	-39.57	431.6	-636.5	259.3	229.8	29.54	8.778	
8,000.0	7,497.3	7,811.0	7,297.3	20.5	21.5	-39.56	531.6	-636.2	259.4	228.5	30.96	8.378	
8,100.0	7,496.9	7,911.0	7,296.8	21.5	22.4	-39.54	631.6	-635.8	259.5	227.0	32.54	7.975	
8,200.0	7,496.6	8,011.0	7,296.3	22.7	23.5	-39.52	731.6	-635.5	259.6	225.3	34.26	7.578	
8,300.0	7,496.2	8,111.0	7,295.8	23.9	24.7	-39.51	831.6	-635.1	259.7	223.6	36.09	7.196	
8,400.0	7,495.9	8,211.0	7,295.4	25.3	26.0	-39.49	931.6	-634.8	259.8	221.8	38.02	6.833	
8,500.0	7,495.5	8,311.0	7,294.9	26.7	27.3	-39.47	1,031.6	-634.4	259.9	219.8	40.04	6.491	
8,600.0	7,495.2	8,411.0	7,294.4	28.1	28.8	-39.45	1,131.6	-634.0	260.0	217.9	42.13	6.171	
8,700.0	7,494.8	8,511.0	7,294.0	29.7	30.3	-39.44	1,231.6	-633.7	260.1	215.8	44.28	5.873	
8,800.0	7,494.5	8,611.0	7,293.5	31.2	31.8	-39.42	1,331.6	-633.3	260.2	213.7	46.49	5.597	
8,900.0	7,494.1	8,711.0	7,293.0	32.8	33.4	-39.40	1,431.5	-633.0	260.3	211.5	48.74	5.340	
9,000.0	7,493.8	8,811.0	7,292.6	34.5	35.0	-39.39	1,531.5	-632.6	260.4	209.3	51.03	5.102	
9,100.0	7,493.4	8,911.0	7,292.1	36.1	36.6	-39.37	1,631.5	-632.3	260.5	207.1	53.35	4.882	
9,200.0	7,493.1	9,011.0	7,291.6	37.8	38.3	-39.35	1,731.5	-631.9	260.6	204.8	55.71	4.677	
9,300.0	7,492.7	9,111.0	7,291.1	39.5	40.0	-39.34	1,831.5	-631.6	260.6	202.6	58.09	4.487	
9,400.0	7,492.4	9,211.0	7,290.7	41.2	41.7	-39.32	1,931.5	-631.2	260.7	200.3	60.49	4.311	
9,500.0	7,492.0	9,311.0	7,290.2	43.0	43.4	-39.30	2,031.5	-630.9	260.8	197.9	62.91	4.146	
9,600.0	7,491.7	9,411.0	7,289.7	44.7	45.1	-39.29	2,131.5	-630.5	260.9	195.6	65.35	3.993	
9,700.0	7,491.3	9,511.0	7,289.3	46.5	46.9	-39.27	2,231.5	-630.2	261.0	193.2	67.81	3.850	
9,800.0	7,491.0	9,611.0	7,288.8	48.3	48.7	-39.25	2,331.5	-629.8	261.1	190.8	70.28	3.716	
9,900.0	7,490.6	9,711.0	7,288.3	50.1	50.4	-39.23	2,431.5	-629.4	261.2	188.5	72.76	3.590	
10,000.0	7,490.3	9,811.0	7,287.8	51.9	52.2	-39.22	2,531.5	-629.1	261.3	186.1	75.25	3.473	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
10,100.0	7,489.9	9,911.0	7,287.4	53.7	54.0	-39.20	2,631.5	-628.7	261.4	183.7	77.75	3.362	
10,200.0	7,489.6	10,011.0	7,286.9	55.5	55.8	-39.18	2,731.5	-628.4	261.5	181.2	80.26	3.258	
10,300.0	7,489.2	10,111.0	7,286.4	57.3	57.6	-39.17	2,831.5	-628.0	261.6	178.8	82.78	3.160	
10,400.0	7,488.9	10,211.0	7,286.0	59.1	59.4	-39.15	2,931.5	-627.7	261.7	176.4	85.30	3.068	
10,500.0	7,488.5	10,311.0	7,285.5	60.9	61.3	-39.13	3,031.5	-627.3	261.8	174.0	87.83	2.980	
10,600.0	7,488.2	10,411.0	7,285.0	62.8	63.1	-39.12	3,131.5	-627.0	261.9	171.5	90.37	2.898	
10,700.0	7,487.8	10,511.0	7,284.5	64.6	64.9	-39.10	3,231.5	-626.6	262.0	169.1	92.91	2.820	
10,800.0	7,487.5	10,611.0	7,284.1	66.5	66.8	-39.08	3,331.5	-626.3	262.1	166.6	95.46	2.745	
10,900.0	7,487.1	10,711.0	7,283.6	68.3	68.6	-39.07	3,431.5	-625.9	262.2	164.2	98.01	2.675	
11,000.0	7,486.8	10,811.0	7,283.1	70.2	70.4	-39.05	3,531.5	-625.6	262.3	161.7	100.56	2.608	
11,100.0	7,486.4	10,911.0	7,282.7	72.0	72.3	-39.03	3,631.5	-625.2	262.4	159.2	103.12	2.544	
11,200.0	7,486.1	11,011.0	7,282.2	73.9	74.1	-39.02	3,731.5	-624.8	262.5	156.8	105.68	2.483	
11,300.0	7,485.7	11,111.0	7,281.7	75.7	76.0	-39.00	3,831.5	-624.5	262.5	154.3	108.24	2.426	
11,400.0	7,485.4	11,211.0	7,281.2	77.6	77.9	-38.98	3,931.5	-624.1	262.6	151.8	110.81	2.370	
11,500.0	7,485.1	11,311.0	7,280.8	79.5	79.7	-38.97	4,031.5	-623.8	262.7	149.4	113.37	2.317	
11,600.0	7,484.7	11,411.0	7,280.3	81.3	81.6	-38.95	4,131.5	-623.4	262.8	146.9	115.94	2.267	
11,700.0	7,484.4	11,511.0	7,279.8	83.2	83.4	-38.93	4,231.5	-623.1	262.9	144.4	118.51	2.219	
11,800.0	7,484.0	11,611.0	7,279.4	85.1	85.3	-38.92	4,331.5	-622.7	263.0	141.9	121.08	2.172	
11,900.0	7,483.7	11,711.0	7,278.9	86.9	87.2	-38.90	4,431.5	-622.4	263.1	139.5	123.66	2.128	
12,000.0	7,483.3	11,811.0	7,278.4	88.8	89.0	-38.88	4,531.5	-622.0	263.2	137.0	126.23	2.085	
12,088.1	7,483.0	11,899.1	7,278.0	90.5	90.7	-38.87	4,619.5	-621.7	263.3	134.8	128.49	2.049	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	landmark
Reference Design:	Plan #2 (8-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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	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	1,300.0	1,300.0	2.8	2.8	-163.50	0.0	14.0	15.7	10.1	5.60	2.799	
1,400.0	1,399.8	1,399.8	1,399.8	3.0	3.0	-167.58	0.0	14.0	20.7	14.7	6.01	3.452	
1,500.0	1,499.5	1,500.4	1,500.4	3.2	3.2	-170.22	-0.8	12.4	27.6	21.2	6.40	4.322	
1,600.0	1,598.7	1,601.2	1,601.0	3.4	3.4	-171.02	-3.1	7.7	34.7	27.9	6.76	5.125	
1,700.0	1,697.6	1,702.3	1,701.7	3.7	3.6	-170.67	-7.0	-0.3	40.7	33.5	7.16	5.680	
1,800.0	1,796.6	1,803.3	1,802.0	4.0	3.9	-169.10	-12.5	-11.3	43.5	35.9	7.57	5.744	
1,900.0	1,895.5	1,903.2	1,901.1	4.2	4.1	-167.34	-18.2	-23.0	45.5	37.5	8.00	5.686	
2,000.0	1,994.4	2,003.2	2,000.2	4.5	4.4	-165.72	-24.0	-34.7	47.5	39.1	8.45	5.630	
2,100.0	2,093.3	2,103.2	2,099.3	4.8	4.6	-164.25	-29.8	-46.5	49.6	40.7	8.90	5.575	
2,200.0	2,192.3	2,203.1	2,198.4	5.2	4.9	-162.89	-35.5	-58.2	51.7	42.4	9.37	5.521	
2,300.0	2,291.2	2,303.1	2,297.5	5.5	5.2	-161.63	-41.3	-69.9	53.9	44.0	9.85	5.469	
2,400.0	2,390.1	2,403.1	2,396.6	5.8	5.5	-160.48	-47.1	-81.6	56.0	45.7	10.34	5.419	
2,500.0	2,489.0	2,503.1	2,495.7	6.1	5.8	-159.41	-52.9	-93.3	58.2	47.4	10.84	5.370	
2,600.0	2,588.0	2,603.0	2,594.9	6.5	6.1	-158.42	-58.6	-105.1	60.4	49.1	11.35	5.323	
2,700.0	2,686.9	2,703.0	2,694.0	6.8	6.4	-157.49	-64.4	-116.8	62.6	50.8	11.86	5.278	
2,800.0	2,785.8	2,803.0	2,793.1	7.1	6.7	-156.63	-70.2	-128.5	64.8	52.5	12.39	5.234	
2,900.0	2,884.7	2,902.9	2,892.2	7.5	7.0	-155.83	-75.9	-140.2	67.1	54.2	12.92	5.192	
3,000.0	2,983.7	3,002.9	2,991.3	7.8	7.3	-155.08	-81.7	-151.9	69.3	55.9	13.46	5.152	
3,100.0	3,082.6	3,102.9	3,090.4	8.2	7.6	-154.38	-87.5	-163.6	71.6	57.6	14.00	5.114	
3,200.0	3,181.5	3,202.9	3,189.5	8.5	7.9	-153.72	-93.2	-175.4	73.9	59.3	14.55	5.078	
3,300.0	3,280.5	3,302.8	3,288.7	8.8	8.2	-153.10	-99.0	-187.1	76.2	61.1	15.11	5.043	
3,400.0	3,379.4	3,402.8	3,387.8	9.2	8.6	-152.52	-104.8	-198.8	78.5	62.8	15.67	5.009	
3,500.0	3,478.3	3,502.8	3,486.9	9.5	8.9	-151.97	-110.6	-210.5	80.8	64.5	16.23	4.977	
3,600.0	3,577.2	3,602.7	3,586.0	9.9	9.2	-151.45	-116.3	-222.2	83.1	66.3	16.80	4.947	
3,700.0	3,676.2	3,702.7	3,685.1	10.2	9.5	-150.95	-122.1	-234.0	85.4	68.0	17.37	4.918	
3,800.0	3,775.1	3,802.7	3,784.2	10.6	9.8	-150.49	-127.9	-245.7	87.7	69.8	17.94	4.890	
3,900.0	3,874.0	3,902.6	3,883.3	10.9	10.2	-150.05	-133.6	-257.4	90.0	71.5	18.52	4.863	
4,000.0	3,972.9	4,002.6	3,982.4	11.3	10.5	-149.63	-139.4	-269.1	92.4	73.3	19.10	4.838	
4,100.0	4,071.9	4,102.6	4,081.6	11.7	10.8	-149.23	-145.2	-280.8	94.7	75.0	19.68	4.813	
4,200.0	4,170.8	4,200.0	4,178.2	12.0	11.1	-149.04	-150.6	-291.8	97.5	77.2	20.22	4.820	
4,300.0	4,269.7	4,298.3	4,276.1	12.4	11.3	-149.91	-154.7	-300.2	102.6	82.0	20.64	4.972	
4,400.0	4,368.6	4,395.1	4,372.6	12.7	11.5	-151.72	-157.3	-305.6	110.5	89.6	20.96	5.272	
4,500.0	4,467.6	4,491.2	4,468.7	13.1	11.7	-154.15	-158.5	-307.9	121.3	100.1	21.22	5.716	
4,600.0	4,566.5	4,589.0	4,566.5	13.4	11.9	-156.79	-158.6	-308.1	134.5	113.0	21.47	6.263	
4,700.0	4,665.6	4,688.1	4,665.6	13.7	12.0	-158.92	-158.6	-308.1	146.9	125.1	21.76	6.751	
4,800.0	4,765.1	4,787.6	4,765.1	14.0	12.2	-160.29	-158.6	-308.1	156.2	134.1	22.05	7.083	
4,900.0	4,864.9	4,887.4	4,864.9	14.1	12.4	-161.10	-158.6	-308.1	162.3	139.9	22.36	7.258	
5,000.0	4,964.8	4,987.3	4,964.8	14.3	12.6	-161.45	-158.6	-308.1	165.1	142.4	22.68	7.281	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	landmark
Reference Design:	Plan #2 (8-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
5,100.0	5,064.8	5,087.3	5,064.8	14.5	12.7	90.00	-158.6	-308.1	165.3	142.3	23.02	7.180	
5,200.0	5,164.8	5,187.3	5,164.8	14.6	12.9	90.00	-158.6	-308.1	165.3	141.9	23.41	7.061	
5,300.0	5,264.8	5,287.3	5,264.8	14.8	13.1	90.00	-158.6	-308.1	165.3	141.5	23.80	6.946	
5,400.0	5,364.8	5,387.3	5,364.8	14.9	13.3	90.00	-158.6	-308.1	165.3	141.1	24.19	6.834	
5,500.0	5,464.8	5,487.3	5,464.8	15.1	13.5	90.00	-158.6	-308.1	165.3	140.7	24.58	6.725	
5,600.0	5,564.8	5,587.3	5,564.8	15.3	13.6	90.00	-158.6	-308.1	165.3	140.3	24.97	6.619	
5,700.0	5,664.8	5,687.3	5,664.8	15.4	13.8	90.00	-158.6	-308.1	165.3	139.9	25.37	6.516	
5,800.0	5,764.8	5,787.3	5,764.8	15.6	14.0	90.00	-158.6	-308.1	165.3	139.5	25.77	6.415	
5,900.0	5,864.8	5,887.3	5,864.8	15.8	14.2	90.00	-158.6	-308.1	165.3	139.1	26.17	6.317	
6,000.0	5,964.8	5,987.3	5,964.8	15.9	14.4	90.00	-158.6	-308.1	165.3	138.7	26.57	6.222	
6,100.0	6,064.8	6,087.3	6,064.8	16.1	14.6	90.00	-158.6	-308.1	165.3	138.3	26.97	6.129	
6,200.0	6,164.8	6,187.3	6,164.8	16.3	14.8	90.00	-158.6	-308.1	165.3	137.9	27.37	6.039	
6,300.0	6,264.8	6,287.3	6,264.8	16.5	15.0	90.00	-158.6	-308.1	165.3	137.5	27.78	5.951	
6,400.0	6,364.8	6,387.3	6,364.8	16.6	15.2	90.00	-158.6	-308.1	165.3	137.1	28.19	5.865	
6,500.0	6,464.8	6,487.3	6,464.8	16.8	15.4	90.00	-158.6	-308.1	165.3	136.7	28.59	5.781	
6,600.0	6,564.8	6,587.3	6,564.8	17.0	15.6	90.00	-158.6	-308.1	165.3	136.3	29.00	5.699	
6,632.4	6,597.3	6,619.7	6,597.3	17.0	15.6	89.94	-158.4	-308.1	165.3	136.2	29.13	5.674	
6,700.0	6,664.8	6,686.9	6,664.2	17.2	15.7	88.35	-153.8	-308.1	165.4	136.1	29.32	5.642	
6,800.0	6,764.8	6,783.3	6,759.0	17.3	15.9	82.32	-136.3	-308.0	167.0	137.5	29.44	5.672	
6,900.0	6,864.8	6,873.6	6,844.8	17.5	16.0	73.16	-108.5	-307.9	174.1	144.4	29.62	5.876	
7,000.0	6,964.8	6,955.7	6,919.3	17.7	16.1	62.94	-74.0	-307.8	191.4	161.4	30.08	6.364	
7,100.0	7,064.4	7,032.1	6,984.6	17.9	16.2	52.03	-34.5	-307.7	217.8	187.3	30.57	7.127	
7,200.0	7,160.8	7,107.7	7,044.7	18.0	16.2	44.36	11.2	-307.5	244.0	213.5	30.51	7.997	
7,300.0	7,250.4	7,182.8	7,099.4	18.1	16.3	39.27	62.7	-307.3	266.4	236.7	29.69	8.972	
7,400.0	7,330.0	7,257.5	7,148.1	18.1	16.4	36.10	119.3	-307.1	283.2	255.0	28.22	10.036	
7,500.0	7,396.6	7,332.1	7,190.6	18.2	16.6	34.39	180.6	-306.9	293.3	266.9	26.40	11.111	
7,600.0	7,447.7	7,406.6	7,226.4	18.3	16.9	33.92	245.8	-306.7	296.2	271.6	24.69	11.997	
7,700.0	7,481.6	7,481.0	7,255.3	18.6	17.3	34.61	314.4	-306.4	291.9	268.3	23.65	12.344	
7,800.0	7,497.0	7,550.0	7,275.6	19.0	17.8	36.44	380.3	-306.2	280.6	256.9	23.70	11.841	
7,900.0	7,497.6	7,631.0	7,291.2	19.7	18.6	38.69	459.8	-305.9	266.0	240.9	25.13	10.585	
8,000.0	7,497.3	7,708.6	7,297.6	20.5	19.3	39.62	537.1	-305.6	259.3	232.7	26.56	9.761	
8,039.0	7,497.1	7,740.9	7,297.8	20.9	19.7	39.67	569.4	-305.5	258.9	231.8	27.10	9.557	
8,100.0	7,496.9	7,801.9	7,297.5	21.5	20.4	39.66	630.4	-305.3	259.0	231.0	27.99	9.253	
8,200.0	7,496.6	7,901.9	7,297.0	22.7	21.6	39.64	730.4	-305.0	259.1	229.5	29.62	8.748	
8,300.0	7,496.2	8,001.9	7,296.5	23.9	22.9	39.62	830.4	-304.6	259.2	227.8	31.39	8.258	
8,400.0	7,495.9	8,101.9	7,296.0	25.3	24.3	39.60	930.4	-304.3	259.3	226.0	33.28	7.792	
8,500.0	7,495.5	8,201.9	7,295.6	26.7	25.8	39.58	1,030.4	-303.9	259.4	224.2	35.28	7.354	
8,600.0	7,495.2	8,301.9	7,295.1	28.1	27.3	39.56	1,130.4	-303.6	259.5	222.2	37.36	6.948	
8,700.0	7,494.8	8,401.9	7,294.6	29.7	28.9	39.54	1,230.4	-303.2	259.6	220.1	39.51	6.572	
8,800.0	7,494.5	8,501.9	7,294.1	31.2	30.5	39.52	1,330.4	-302.8	259.8	218.0	41.72	6.226	
8,900.0	7,494.1	8,601.9	7,293.6	32.8	32.1	39.50	1,430.4	-302.5	259.9	215.9	43.98	5.909	
9,000.0	7,493.8	8,701.9	7,293.1	34.5	33.8	39.48	1,530.3	-302.1	260.0	213.7	46.28	5.617	
9,100.0	7,493.4	8,801.9	7,292.6	36.1	35.5	39.46	1,630.3	-301.8	260.1	211.4	48.62	5.349	
9,200.0	7,493.1	8,901.9	7,292.1	37.8	37.2	39.44	1,730.3	-301.4	260.2	209.2	51.00	5.102	
9,300.0	7,492.7	9,001.9	7,291.6	39.5	38.9	39.42	1,830.3	-301.1	260.3	206.9	53.40	4.875	
9,400.0	7,492.4	9,101.9	7,291.2	41.2	40.6	39.40	1,930.3	-300.7	260.4	204.6	55.82	4.665	
9,500.0	7,492.0	9,201.9	7,290.7	43.0	42.4	39.38	2,030.3	-300.4	260.5	202.2	58.26	4.471	
9,600.0	7,491.7	9,301.9	7,290.2	44.7	44.2	39.36	2,130.3	-300.0	260.6	199.9	60.72	4.292	
9,700.0	7,491.3	9,401.9	7,289.7	46.5	46.0	39.34	2,230.3	-299.7	260.7	197.5	63.19	4.126	
9,800.0	7,491.0	9,501.9	7,289.2	48.3	47.8	39.32	2,330.3	-299.3	260.8	195.1	65.68	3.971	
9,900.0	7,490.6	9,601.9	7,288.7	50.1	49.6	39.30	2,430.3	-299.0	260.9	192.7	68.18	3.827	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	landmark
Reference Design:	Plan #2 (8-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
10,000.0	7,490.3	9,701.9	7,288.2	51.9	51.4	39.28	2,530.3	-298.6	261.0	190.3	70.69	3.693	
10,100.0	7,489.9	9,801.9	7,287.7	53.7	53.2	39.26	2,630.3	-298.3	261.1	187.9	73.21	3.567	
10,200.0	7,489.6	9,901.9	7,287.2	55.5	55.0	39.24	2,730.3	-297.9	261.2	185.5	75.74	3.449	
10,300.0	7,489.2	10,001.9	7,286.8	57.3	56.9	39.22	2,830.3	-297.6	261.4	183.1	78.27	3.339	
10,400.0	7,488.9	10,101.9	7,286.3	59.1	58.7	39.20	2,930.3	-297.2	261.5	180.7	80.81	3.235	
10,500.0	7,488.5	10,201.9	7,285.8	60.9	60.5	39.18	3,030.3	-296.9	261.6	178.2	83.36	3.138	
10,600.0	7,488.2	10,301.9	7,285.3	62.8	62.4	39.16	3,130.3	-296.5	261.7	175.8	85.91	3.046	
10,700.0	7,487.8	10,401.9	7,284.8	64.6	64.2	39.14	3,230.3	-296.2	261.8	173.3	88.46	2.959	
10,800.0	7,487.5	10,501.9	7,284.3	66.5	66.1	39.12	3,330.3	-295.8	261.9	170.9	91.02	2.877	
10,900.0	7,487.1	10,601.9	7,283.8	68.3	67.9	39.10	3,430.3	-295.4	262.0	168.4	93.58	2.800	
11,000.0	7,486.8	10,701.9	7,283.3	70.2	69.8	39.08	3,530.3	-295.1	262.1	166.0	96.15	2.726	
11,100.0	7,486.4	10,801.9	7,282.9	72.0	71.7	39.06	3,630.3	-294.7	262.2	163.5	98.72	2.656	
11,200.0	7,486.1	10,901.9	7,282.4	73.9	73.5	39.04	3,730.3	-294.4	262.3	161.0	101.28	2.590	
11,300.0	7,485.7	11,001.9	7,281.9	75.7	75.4	39.02	3,830.3	-294.0	262.4	158.6	103.86	2.527	
11,400.0	7,485.4	11,101.9	7,281.4	77.6	77.3	39.00	3,930.3	-293.7	262.5	156.1	106.43	2.467	
11,500.0	7,485.1	11,201.9	7,280.9	79.5	79.1	38.98	4,030.3	-293.3	262.6	153.6	109.01	2.409	
11,600.0	7,484.7	11,301.9	7,280.4	81.3	81.0	38.96	4,130.3	-293.0	262.7	151.2	111.58	2.355	
11,700.0	7,484.4	11,401.9	7,279.9	83.2	82.9	38.94	4,230.3	-292.6	262.9	148.7	114.16	2.303	
11,800.0	7,484.0	11,501.9	7,279.4	85.1	84.8	38.93	4,330.3	-292.3	263.0	146.2	116.74	2.253	
11,900.0	7,483.7	11,601.9	7,278.9	86.9	86.6	38.91	4,430.3	-291.9	263.1	143.8	119.32	2.205	
12,000.0	7,483.3	11,701.9	7,278.5	88.8	88.5	38.89	4,530.3	-291.6	263.2	141.3	121.90	2.159	
12,088.1	7,483.0	11,790.0	7,278.0	90.5	90.2	38.87	4,618.3	-291.3	263.3	139.1	124.17	2.120	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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	90.01	0.0	28.0	28.0				
100.0	100.0	99.0	99.0	0.1	0.1	90.01	0.0	28.0	28.0	27.8	0.22	125.243	
200.0	200.0	199.0	199.0	0.3	0.3	90.01	0.0	28.0	28.0	27.3	0.67	41.678	
300.0	300.0	299.0	299.0	0.6	0.6	90.01	0.0	28.0	28.0	26.9	1.12	24.974	
400.0	400.0	399.0	399.0	0.8	0.8	90.01	0.0	28.0	28.0	26.4	1.57	17.828	
500.0	500.0	499.0	499.0	1.0	1.0	90.01	0.0	28.0	28.0	26.0	2.02	13.862	
600.0	600.0	599.0	599.0	1.2	1.2	90.01	0.0	28.0	28.0	25.5	2.47	11.339	
700.0	700.0	699.0	699.0	1.5	1.5	90.01	0.0	28.0	28.0	25.1	2.92	9.593	
800.0	800.0	799.0	799.0	1.7	1.7	90.01	0.0	28.0	28.0	24.6	3.37	8.313	
900.0	900.0	899.0	899.0	1.9	1.9	90.01	0.0	28.0	28.0	24.2	3.82	7.335	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	90.01	0.0	28.0	28.0	23.7	4.27	6.562	
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.4	90.01	0.0	28.0	28.0	23.3	4.72	5.937	
1,200.0	1,200.0	1,199.0	1,199.0	2.6	2.6	90.01	0.0	28.0	28.0	22.8	5.17	5.421	CC, ES
1,300.0	1,300.0	1,299.0	1,299.0	2.8	2.8	-162.53	0.0	28.0	29.7	24.1	5.60	5.301	
1,400.0	1,399.8	1,398.8	1,398.8	3.0	3.0	-165.10	0.0	28.0	34.7	28.7	6.01	5.777	
1,500.0	1,499.5	1,498.5	1,498.5	3.2	3.3	-168.04	0.0	28.0	43.2	36.8	6.41	6.731	
1,600.0	1,598.7	1,597.7	1,597.7	3.4	3.5	-170.62	0.0	28.0	55.2	48.3	6.82	8.088	
1,700.0	1,697.6	1,698.1	1,698.1	3.7	3.7	-172.04	-0.9	27.1	68.5	61.3	7.22	9.486	
1,800.0	1,796.6	1,799.2	1,799.1	4.0	3.9	-172.02	-3.5	24.2	79.7	72.1	7.61	10.471	
1,900.0	1,895.5	1,900.7	1,900.4	4.2	4.1	-171.09	-8.0	19.3	88.7	80.6	8.01	11.063	
2,000.0	1,994.4	2,002.5	2,001.7	4.5	4.3	-169.43	-14.3	12.4	95.4	87.0	8.43	11.318	
2,100.0	2,093.3	2,103.5	2,102.1	4.8	4.5	-167.19	-22.2	3.7	100.3	91.5	8.87	11.314	
2,200.0	2,192.3	2,203.3	2,201.1	5.2	4.7	-165.04	-30.3	-5.2	105.0	95.7	9.32	11.269	
2,300.0	2,291.2	2,303.1	2,300.2	5.5	5.0	-163.07	-38.4	-14.0	109.8	100.0	9.79	11.224	
2,400.0	2,390.1	2,402.9	2,399.3	5.8	5.2	-161.26	-46.5	-22.9	114.8	104.5	10.27	11.178	
2,500.0	2,489.0	2,502.7	2,498.4	6.1	5.5	-159.61	-54.6	-31.8	119.8	109.0	10.76	11.131	
2,600.0	2,588.0	2,602.6	2,597.5	6.5	5.7	-158.09	-62.7	-40.7	124.9	113.7	11.27	11.084	
2,700.0	2,686.9	2,702.4	2,696.6	6.8	6.0	-156.69	-70.8	-49.6	130.2	118.4	11.79	11.036	
2,800.0	2,785.8	2,802.2	2,795.7	7.1	6.3	-155.40	-79.0	-58.5	135.4	123.1	12.33	10.989	
2,900.0	2,884.7	2,902.0	2,894.8	7.5	6.6	-154.21	-87.1	-67.3	140.8	127.9	12.87	10.942	
3,000.0	2,983.7	3,001.8	2,993.9	7.8	6.8	-153.11	-95.2	-76.2	146.2	132.8	13.42	10.895	
3,100.0	3,082.6	3,101.6	3,092.9	8.2	7.1	-152.08	-103.3	-85.1	151.6	137.7	13.98	10.850	
3,200.0	3,181.5	3,201.5	3,192.0	8.5	7.4	-151.13	-111.4	-94.0	157.1	142.6	14.54	10.806	
3,300.0	3,280.5	3,301.3	3,291.1	8.8	7.7	-150.24	-119.5	-102.9	162.7	147.6	15.11	10.763	
3,400.0	3,379.4	3,401.1	3,390.2	9.2	8.0	-149.41	-127.6	-111.7	168.3	152.6	15.69	10.721	
3,500.0	3,478.3	3,500.9	3,489.3	9.5	8.3	-148.63	-135.7	-120.6	173.9	157.6	16.28	10.681	
3,600.0	3,577.2	3,600.0	3,587.7	9.9	8.6	-147.99	-143.6	-129.2	179.7	162.8	16.85	10.664	
3,700.0	3,676.2	3,696.6	3,683.9	10.2	8.8	-147.95	-149.8	-136.0	186.7	169.4	17.35	10.765	
3,800.0	3,775.1	3,793.5	3,780.5	10.6	9.0	-148.51	-154.3	-141.0	195.2	177.4	17.80	10.965	
3,900.0	3,874.0	3,890.0	3,876.9	10.9	9.2	-149.58	-157.3	-144.2	205.2	187.0	18.22	11.262	
4,000.0	3,972.9	3,986.0	3,972.9	11.3	9.4	-151.07	-158.5	-145.6	216.8	198.2	18.60	11.653	
4,100.0	4,071.9	4,084.0	4,070.9	11.7	9.6	-152.79	-158.6	-145.7	229.7	210.7	18.97	12.107	
4,200.0	4,170.8	4,182.9	4,169.8	12.0	9.8	-154.37	-158.6	-145.7	242.8	223.4	19.34	12.550	
4,300.0	4,269.7	4,281.8	4,268.7	12.4	10.0	-155.78	-158.6	-145.7	256.1	236.3	19.73	12.980	
4,400.0	4,368.6	4,380.7	4,367.6	12.7	10.1	-157.05	-158.6	-145.7	269.5	249.4	20.12	13.395	
4,500.0	4,467.6	4,479.7	4,466.6	13.1	10.3	-158.20	-158.6	-145.7	283.0	262.5	20.51	13.796	
4,600.0	4,566.5	4,578.6	4,565.5	13.4	10.5	-159.25	-158.6	-145.7	296.7	275.7	20.92	14.183	
4,700.0	4,665.6	4,677.7	4,664.6	13.7	10.7	-160.20	-158.6	-145.7	309.2	287.9	21.32	14.501	
4,800.0	4,765.1	4,777.2	4,764.1	14.0	10.9	-160.87	-158.6	-145.7	318.6	296.9	21.70	14.683	
4,900.0	4,864.9	4,877.0	4,863.9	14.1	11.1	-161.28	-158.6	-145.7	324.7	302.6	22.06	14.719	
5,000.0	4,964.8	4,976.9	4,963.8	14.3	11.3	-161.46	-158.6	-145.7	327.5	305.1	22.41	14.617	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
5,100.0	5,064.8	5,076.9	5,063.8	14.5	11.5	90.00	-158.6	-145.7	327.7	304.9	22.77	14.391	
5,200.0	5,164.8	5,176.9	5,163.8	14.6	11.7	90.00	-158.6	-145.7	327.7	304.5	23.17	14.146	
5,300.0	5,264.8	5,276.9	5,263.8	14.8	11.9	90.00	-158.6	-145.7	327.7	304.1	23.56	13.908	
5,400.0	5,364.8	5,376.9	5,363.8	14.9	12.1	90.00	-158.6	-145.7	327.7	303.7	23.96	13.676	
5,500.0	5,464.8	5,476.9	5,463.8	15.1	12.3	90.00	-158.6	-145.7	327.7	303.3	24.36	13.452	
5,600.0	5,564.8	5,576.9	5,563.8	15.3	12.5	90.00	-158.6	-145.7	327.7	302.9	24.76	13.233	
5,700.0	5,664.8	5,676.9	5,663.8	15.4	12.7	90.00	-158.6	-145.7	327.7	302.5	25.17	13.021	
5,800.0	5,764.8	5,776.9	5,763.8	15.6	12.9	90.00	-158.6	-145.7	327.7	302.1	25.57	12.815	
5,900.0	5,864.8	5,876.9	5,863.8	15.8	13.1	90.00	-158.6	-145.7	327.7	301.7	25.98	12.615	
6,000.0	5,964.8	5,976.9	5,963.8	15.9	13.3	90.00	-158.6	-145.7	327.7	301.3	26.39	12.420	
6,100.0	6,064.8	6,076.9	6,063.8	16.1	13.6	90.00	-158.6	-145.7	327.7	300.9	26.80	12.230	
6,200.0	6,164.8	6,176.9	6,163.8	16.3	13.8	90.00	-158.6	-145.7	327.7	300.5	27.21	12.045	
6,300.0	6,264.8	6,276.9	6,263.8	16.5	14.0	90.00	-158.6	-145.7	327.7	300.1	27.62	11.866	
6,400.0	6,364.8	6,376.9	6,363.8	16.6	14.2	90.00	-158.6	-145.7	327.7	299.7	28.03	11.691	
6,500.0	6,464.8	6,476.9	6,463.8	16.8	14.4	90.00	-158.6	-145.7	327.7	299.3	28.44	11.521	
6,600.0	6,564.8	6,576.9	6,563.8	17.0	14.6	90.00	-158.6	-145.7	327.7	298.9	28.86	11.355	
6,626.6	6,591.5	6,603.5	6,590.4	17.0	14.6	89.99	-158.5	-145.7	327.7	298.7	28.97	11.313	
6,700.0	6,664.8	6,676.4	6,663.1	17.2	14.8	89.17	-153.8	-145.7	327.8	298.5	29.22	11.216	
6,800.0	6,764.8	6,772.8	6,757.8	17.3	14.9	86.12	-136.4	-145.6	328.6	299.1	29.47	11.151	
6,900.0	6,864.8	6,863.0	6,843.6	17.5	15.1	81.33	-108.6	-145.5	332.3	302.7	29.67	11.202	
7,000.0	6,964.8	6,945.0	6,918.0	17.7	15.2	75.57	-74.2	-145.3	341.8	311.9	29.90	11.432	
7,100.0	7,064.4	7,021.3	6,983.3	17.9	15.3	68.45	-34.7	-145.2	357.4	327.2	30.10	11.871	
7,200.0	7,160.8	7,100.0	7,045.8	18.0	15.3	62.52	13.0	-145.0	374.0	343.8	30.16	12.401	
7,300.0	7,250.4	7,172.0	7,098.1	18.1	15.4	58.29	62.4	-144.8	389.0	359.1	29.91	13.005	
7,400.0	7,330.0	7,250.0	7,148.9	18.1	15.6	55.23	121.6	-144.5	400.7	371.3	29.42	13.620	
7,500.0	7,396.6	7,321.2	7,189.3	18.2	15.9	53.60	180.2	-144.3	407.9	379.0	28.83	14.149	
7,600.0	7,447.7	7,400.0	7,227.1	18.3	16.3	53.12	249.3	-144.0	410.0	381.6	28.48	14.398	
7,700.0	7,481.6	7,470.1	7,254.1	18.6	16.8	53.84	313.9	-143.7	406.9	378.3	28.63	14.211	
7,800.0	7,497.0	7,550.0	7,277.1	19.0	17.5	55.91	390.4	-143.4	398.8	369.2	29.65	13.451	
7,900.0	7,497.6	7,620.1	7,290.1	19.7	18.1	57.82	459.2	-143.1	388.7	357.5	31.24	12.443	
8,000.0	7,497.3	7,700.0	7,296.6	20.5	18.9	58.68	538.8	-142.8	384.2	351.2	32.98	11.648	
8,034.7	7,497.1	7,725.5	7,296.8	20.9	19.2	58.72	564.3	-142.7	383.9	350.4	33.56	11.440	
8,100.0	7,496.9	7,790.8	7,296.5	21.5	20.0	58.72	629.6	-142.4	384.0	349.2	34.81	11.030	
8,200.0	7,496.6	7,890.8	7,296.0	22.7	21.2	58.70	729.6	-142.0	384.1	347.2	36.92	10.403	
8,300.0	7,496.2	7,990.8	7,295.5	23.9	22.6	58.69	829.6	-141.6	384.2	345.0	39.20	9.801	
8,400.0	7,495.9	8,090.8	7,295.0	25.3	24.0	58.67	929.6	-141.2	384.4	342.7	41.63	9.232	
8,500.0	7,495.5	8,190.8	7,294.6	26.7	25.4	58.66	1,029.6	-140.8	384.5	340.3	44.18	8.703	
8,600.0	7,495.2	8,290.8	7,294.1	28.1	27.0	58.65	1,129.6	-140.4	384.6	337.8	46.83	8.213	
8,700.0	7,494.8	8,390.8	7,293.6	29.7	28.6	58.63	1,229.6	-140.0	384.7	335.2	49.56	7.762	
8,800.0	7,494.5	8,490.8	7,293.1	31.2	30.2	58.62	1,329.6	-139.6	384.8	332.5	52.37	7.349	
8,900.0	7,494.1	8,590.8	7,292.6	32.8	31.8	58.61	1,429.6	-139.2	385.0	329.7	55.23	6.970	
9,000.0	7,493.8	8,690.8	7,292.1	34.5	33.5	58.60	1,529.6	-138.7	385.1	326.9	58.15	6.622	
9,100.0	7,493.4	8,790.8	7,291.6	36.1	35.2	58.58	1,629.6	-138.3	385.2	324.1	61.11	6.303	
9,200.0	7,493.1	8,890.8	7,291.1	37.8	36.9	58.57	1,729.6	-137.9	385.3	321.2	64.11	6.010	
9,300.0	7,492.7	8,990.8	7,290.7	39.5	38.7	58.56	1,829.6	-137.5	385.5	318.3	67.14	5.741	
9,400.0	7,492.4	9,090.8	7,290.2	41.2	40.4	58.54	1,929.6	-137.1	385.6	315.4	70.20	5.492	
9,500.0	7,492.0	9,190.8	7,289.7	43.0	42.2	58.53	2,029.6	-136.7	385.7	312.4	73.29	5.263	
9,600.0	7,491.7	9,290.8	7,289.2	44.7	44.0	58.52	2,129.6	-136.3	385.8	309.4	76.39	5.051	
9,700.0	7,491.3	9,390.8	7,288.7	46.5	45.8	58.50	2,229.6	-135.9	385.9	306.4	79.51	4.854	
9,800.0	7,491.0	9,490.8	7,288.2	48.3	47.6	58.49	2,329.6	-135.5	386.1	303.4	82.66	4.671	
9,900.0	7,490.6	9,590.8	7,287.7	50.1	49.4	58.48	2,429.6	-135.0	386.2	300.4	85.81	4.500	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
10,000.0	7,490.3	9,690.8	7,287.2	51.9	51.2	58.46	2,529.6	-134.6	386.3	297.3	88.98	4.342	
10,100.0	7,489.9	9,790.8	7,286.7	53.7	53.0	58.45	2,629.6	-134.2	386.4	294.3	92.16	4.193	
10,200.0	7,489.6	9,890.8	7,286.3	55.5	54.9	58.44	2,729.6	-133.8	386.5	291.2	95.35	4.054	
10,300.0	7,489.2	9,990.8	7,285.8	57.3	56.7	58.42	2,829.6	-133.4	386.7	288.1	98.55	3.924	
10,400.0	7,488.9	10,090.8	7,285.3	59.1	58.5	58.41	2,929.5	-133.0	386.8	285.0	101.76	3.801	
10,500.0	7,488.5	10,190.8	7,284.8	60.9	60.4	58.40	3,029.5	-132.6	386.9	281.9	104.97	3.686	
10,600.0	7,488.2	10,290.8	7,284.3	62.8	62.2	58.38	3,129.5	-132.2	387.0	278.8	108.20	3.577	
10,700.0	7,487.8	10,390.8	7,283.8	64.6	64.1	58.37	3,229.5	-131.7	387.2	275.7	111.42	3.475	
10,800.0	7,487.5	10,490.8	7,283.3	66.5	65.9	58.36	3,329.5	-131.3	387.3	272.6	114.66	3.378	
10,900.0	7,487.1	10,590.8	7,282.8	68.3	67.8	58.34	3,429.5	-130.9	387.4	269.5	117.90	3.286	
11,000.0	7,486.8	10,690.8	7,282.3	70.2	69.7	58.33	3,529.5	-130.5	387.5	266.4	121.14	3.199	
11,100.0	7,486.4	10,790.8	7,281.9	72.0	71.5	58.32	3,629.5	-130.1	387.6	263.3	124.39	3.116	
11,200.0	7,486.1	10,890.8	7,281.4	73.9	73.4	58.30	3,729.5	-129.7	387.8	260.1	127.64	3.038	
11,300.0	7,485.7	10,990.8	7,280.9	75.7	75.3	58.29	3,829.5	-129.3	387.9	257.0	130.89	2.963	
11,400.0	7,485.4	11,090.8	7,280.4	77.6	77.1	58.28	3,929.5	-128.9	388.0	253.9	134.15	2.892	
11,500.0	7,485.1	11,190.8	7,279.9	79.5	79.0	58.27	4,029.5	-128.5	388.1	250.7	137.41	2.825	
11,600.0	7,484.7	11,290.8	7,279.4	81.3	80.9	58.25	4,129.5	-128.0	388.3	247.6	140.68	2.760	
11,700.0	7,484.4	11,390.8	7,278.9	83.2	82.8	58.24	4,229.5	-127.6	388.4	244.4	143.94	2.698	
11,800.0	7,484.0	11,490.8	7,278.4	85.1	84.6	58.23	4,329.5	-127.2	388.5	241.3	147.21	2.639	
11,900.0	7,483.7	11,590.8	7,277.9	86.9	86.5	58.21	4,429.5	-126.8	388.6	238.1	150.48	2.583	
12,000.0	7,483.3	11,690.8	7,277.5	88.8	88.4	58.20	4,529.5	-126.4	388.7	235.0	153.75	2.528	
12,088.1	7,483.0	11,778.8	7,277.0	90.5	90.1	58.19	4,617.6	-126.0	388.9	232.2	156.63	2.483	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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	0.0	44.8	44.8				
100.0	100.0	99.0	99.0	0.1	0.1	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	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	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	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	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	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	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	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	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	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	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	0.0	44.8	44.8	39.6	5.17	8.673	CC, ES
1,300.0	1,300.0	1,299.0	1,299.0	2.8	2.8	-162.15	0.0	44.8	46.5	40.9	5.60	8.304	
1,400.0	1,399.8	1,398.8	1,398.8	3.0	3.0	-163.91	0.0	44.8	51.5	45.5	6.01	8.571	
1,500.0	1,499.5	1,498.5	1,498.5	3.2	3.3	-166.18	0.0	44.8	59.9	53.5	6.42	9.338	
1,600.0	1,598.7	1,597.7	1,597.7	3.4	3.5	-168.45	0.0	44.8	71.8	65.0	6.82	10.526	
1,700.0	1,697.6	1,696.6	1,696.6	3.7	3.7	-170.38	0.0	44.8	86.1	78.9	7.24	11.886	
1,800.0	1,796.6	1,795.6	1,795.6	4.0	3.9	-171.77	0.0	44.8	100.6	92.9	7.68	13.099	
1,900.0	1,895.5	1,894.5	1,894.5	4.2	4.1	-172.81	0.0	44.8	115.0	106.9	8.11	14.181	
2,000.0	1,994.4	1,993.4	1,993.4	4.5	4.4	-173.62	0.0	44.8	129.6	121.0	8.55	15.149	
2,100.0	2,093.3	2,092.3	2,092.3	4.8	4.6	-174.27	0.0	44.8	144.1	135.1	8.99	16.020	
2,200.0	2,192.3	2,191.3	2,191.3	5.2	4.8	-174.80	0.0	44.8	158.6	149.2	9.44	16.806	
2,300.0	2,291.2	2,290.2	2,290.2	5.5	5.0	-175.23	0.0	44.8	173.2	163.3	9.89	17.518	
2,400.0	2,390.1	2,389.1	2,389.1	5.8	5.3	-175.60	0.0	44.8	187.8	177.4	10.34	18.166	
2,500.0	2,489.0	2,488.0	2,488.0	6.1	5.5	-175.92	0.0	44.8	202.4	191.6	10.79	18.758	
2,600.0	2,588.0	2,589.0	2,589.0	6.5	5.7	-175.95	-1.0	44.6	216.5	205.3	11.22	19.301	
2,700.0	2,686.9	2,690.5	2,690.4	6.8	5.9	-175.36	-4.7	44.1	229.7	218.0	11.63	19.754	
2,800.0	2,785.8	2,792.1	2,791.8	7.1	6.0	-174.24	-11.0	43.0	241.8	229.8	12.04	20.084	
2,900.0	2,884.7	2,892.9	2,892.3	7.5	6.2	-172.69	-19.8	41.6	253.1	240.7	12.47	20.308	
3,000.0	2,983.7	2,992.1	2,990.9	7.8	6.4	-171.15	-29.2	40.1	264.4	251.5	12.90	20.494	
3,100.0	3,082.6	3,091.2	3,089.6	8.2	6.6	-169.74	-38.6	38.5	275.8	262.5	13.35	20.665	
3,200.0	3,181.5	3,190.3	3,188.3	8.5	6.8	-168.44	-47.9	37.0	287.4	273.6	13.80	20.820	
3,300.0	3,280.5	3,289.4	3,286.9	8.8	7.0	-167.24	-57.3	35.5	299.1	284.9	14.27	20.960	
3,400.0	3,379.4	3,388.6	3,385.6	9.2	7.2	-166.14	-66.6	34.0	311.0	296.2	14.75	21.087	
3,500.0	3,478.3	3,487.7	3,484.3	9.5	7.4	-165.11	-76.0	32.5	322.9	307.7	15.23	21.202	
3,600.0	3,577.2	3,586.8	3,582.9	9.9	7.7	-164.16	-85.4	30.9	335.0	319.2	15.72	21.306	
3,700.0	3,676.2	3,685.9	3,681.6	10.2	7.9	-163.27	-94.7	29.4	347.1	330.9	16.22	21.400	
3,800.0	3,775.1	3,785.1	3,780.3	10.6	8.1	-162.44	-104.1	27.9	359.3	342.6	16.72	21.485	
3,900.0	3,874.0	3,884.2	3,878.9	10.9	8.3	-161.67	-113.5	26.4	371.6	354.3	17.23	21.562	
4,000.0	3,972.9	3,983.3	3,977.6	11.3	8.6	-160.95	-122.8	24.8	383.9	366.2	17.75	21.631	
4,100.0	4,071.9	4,082.4	4,076.3	11.7	8.8	-160.27	-132.2	23.3	396.3	378.0	18.27	21.694	
4,200.0	4,170.8	4,181.0	4,174.4	12.0	9.1	-159.67	-141.3	21.8	408.8	390.0	18.79	21.758	
4,300.0	4,269.7	4,278.8	4,271.9	12.4	9.3	-159.38	-148.3	20.7	421.5	402.2	19.29	21.857	
4,400.0	4,368.6	4,376.5	4,369.6	12.7	9.5	-159.45	-152.8	20.0	434.6	414.9	19.76	21.993	
4,500.0	4,467.6	4,474.1	4,467.1	13.1	9.7	-159.83	-154.9	19.6	448.1	427.9	20.21	22.168	
4,600.0	4,566.5	4,572.5	4,565.5	13.4	9.9	-160.43	-155.0	19.6	461.8	441.2	20.65	22.368	
4,700.0	4,665.6	4,671.6	4,664.6	13.7	10.1	-161.04	-155.0	19.6	474.5	453.4	21.09	22.497	
4,800.0	4,765.1	4,771.1	4,764.1	14.0	10.3	-161.48	-155.0	19.6	483.9	462.4	21.49	22.511	
4,900.0	4,864.9	4,870.8	4,863.9	14.1	10.5	-161.76	-155.0	19.6	490.0	468.1	21.88	22.395	
5,000.0	4,964.8	4,970.8	4,963.8	14.3	10.7	-161.89	-155.0	19.6	492.8	470.6	22.24	22.155	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
5,100.0	5,064.8	5,070.8	5,063.8	14.5	10.9	89.58	-155.0	19.6	493.0	470.4	22.62	21.797	
5,200.0	5,164.8	5,170.8	5,163.8	14.6	11.2	89.58	-155.0	19.6	493.0	470.0	23.02	21.421	
5,300.0	5,264.8	5,270.8	5,263.8	14.8	11.4	89.58	-155.0	19.6	493.0	469.6	23.42	21.055	
5,400.0	5,364.8	5,370.8	5,363.8	14.9	11.6	89.58	-155.0	19.6	493.0	469.2	23.82	20.701	
5,500.0	5,464.8	5,470.8	5,463.8	15.1	11.8	89.58	-155.0	19.6	493.0	468.8	24.22	20.356	
5,600.0	5,564.8	5,570.8	5,563.8	15.3	12.0	89.58	-155.0	19.6	493.0	468.4	24.62	20.022	
5,700.0	5,664.8	5,670.8	5,663.8	15.4	12.2	89.58	-155.0	19.6	493.0	468.0	25.03	19.697	
5,800.0	5,764.8	5,770.8	5,763.8	15.6	12.4	89.58	-155.0	19.6	493.0	467.6	25.44	19.382	
5,900.0	5,864.8	5,870.8	5,863.8	15.8	12.6	89.58	-155.0	19.6	493.0	467.2	25.85	19.075	
6,000.0	5,964.8	5,970.8	5,963.8	15.9	12.8	89.58	-155.0	19.6	493.0	466.8	26.26	18.778	
6,100.0	6,064.8	6,070.8	6,063.8	16.1	13.1	89.58	-155.0	19.6	493.0	466.4	26.67	18.488	
6,200.0	6,164.8	6,170.8	6,163.8	16.3	13.3	89.58	-155.0	19.6	493.0	465.9	27.08	18.206	
6,300.0	6,264.8	6,270.8	6,263.8	16.5	13.5	89.58	-155.0	19.6	493.0	465.5	27.49	17.932	
6,400.0	6,364.8	6,370.8	6,363.8	16.6	13.7	89.58	-155.0	19.6	493.0	465.1	27.91	17.666	
6,500.0	6,464.8	6,470.8	6,463.8	16.8	13.9	89.58	-155.0	19.6	493.0	464.7	28.32	17.407	
6,600.0	6,564.8	6,570.8	6,563.8	17.0	14.1	89.58	-155.0	19.6	493.0	464.3	28.74	17.154	
6,606.7	6,571.5	6,577.5	6,570.5	17.0	14.1	89.58	-155.0	19.6	493.0	464.3	28.77	17.138	
6,700.0	6,664.8	6,669.8	6,662.6	17.2	14.3	89.03	-150.3	19.6	493.1	464.0	29.12	16.932	
6,800.0	6,764.8	6,765.6	6,756.8	17.3	14.5	87.03	-133.0	19.7	493.8	464.4	29.42	16.783	
6,900.0	6,864.8	6,855.4	6,842.2	17.5	14.6	83.86	-105.5	19.8	496.5	466.9	29.68	16.732	
7,000.0	6,964.8	6,937.1	6,916.5	17.7	14.7	79.98	-71.4	20.0	503.2	473.3	29.92	16.819	
7,100.0	7,064.4	7,013.2	6,981.6	17.9	14.8	74.93	-32.2	20.1	514.2	484.1	30.12	17.069	
7,200.0	7,160.8	7,088.6	7,041.8	18.0	15.0	70.70	13.2	20.3	526.0	495.8	30.24	17.394	
7,300.0	7,250.4	7,163.5	7,096.4	18.1	15.2	67.38	64.3	20.5	536.9	506.6	30.24	17.754	
7,400.0	7,330.0	7,238.0	7,145.3	18.1	15.4	65.03	120.6	20.7	545.4	515.2	30.15	18.090	
7,500.0	7,396.6	7,312.4	7,187.9	18.2	15.8	63.67	181.5	21.0	550.6	520.5	30.10	18.295	
7,600.0	7,447.7	7,386.7	7,224.0	18.3	16.2	63.31	246.4	21.3	552.0	521.8	30.28	18.232	
7,700.0	7,481.6	7,461.0	7,253.1	18.6	16.7	63.96	314.7	21.5	549.5	518.6	30.89	17.788	
7,800.0	7,497.0	7,535.4	7,275.0	19.0	17.3	65.60	385.7	21.8	543.4	511.3	32.06	16.947	
7,900.0	7,497.6	7,610.7	7,289.6	19.7	18.0	67.25	459.6	22.1	535.8	502.1	33.70	15.899	
8,000.0	7,497.3	7,688.2	7,296.4	20.5	18.8	67.95	536.7	22.5	532.4	496.9	35.48	15.006	
8,039.6	7,497.1	7,720.0	7,296.8	20.9	19.2	68.00	568.5	22.6	532.1	495.9	36.22	14.694	
8,100.0	7,496.9	7,780.4	7,296.5	21.5	19.9	68.00	628.9	22.8	532.2	494.7	37.48	14.198	
8,200.0	7,496.6	7,880.4	7,296.0	22.7	21.1	67.99	728.9	23.2	532.3	492.5	39.77	13.385	
8,300.0	7,496.2	7,980.4	7,295.6	23.9	22.5	67.97	828.9	23.6	532.4	490.2	42.23	12.606	
8,400.0	7,495.9	8,080.4	7,295.1	25.3	23.9	67.96	928.9	24.1	532.5	487.7	44.85	11.873	
8,500.0	7,495.5	8,180.4	7,294.6	26.7	25.4	67.95	1,028.9	24.5	532.6	485.0	47.60	11.190	
8,600.0	7,495.2	8,280.4	7,294.1	28.1	26.9	67.94	1,128.9	24.9	532.7	482.3	50.45	10.560	
8,700.0	7,494.8	8,380.4	7,293.6	29.7	28.5	67.93	1,228.9	25.3	532.8	479.4	53.38	9.981	
8,800.0	7,494.5	8,480.4	7,293.1	31.2	30.1	67.92	1,328.9	25.7	532.9	476.5	56.40	9.449	
8,900.0	7,494.1	8,580.4	7,292.6	32.8	31.8	67.90	1,428.9	26.1	533.0	473.6	59.47	8.962	
9,000.0	7,493.8	8,680.4	7,292.1	34.5	33.5	67.89	1,528.9	26.5	533.1	470.5	62.60	8.516	
9,100.0	7,493.4	8,780.4	7,291.6	36.1	35.2	67.88	1,628.9	26.9	533.2	467.5	65.78	8.106	
9,200.0	7,493.1	8,880.4	7,291.2	37.8	36.9	67.87	1,728.9	27.3	533.3	464.3	69.00	7.730	
9,300.0	7,492.7	8,980.4	7,290.7	39.5	38.7	67.86	1,828.9	27.7	533.4	461.2	72.25	7.383	
9,400.0	7,492.4	9,080.4	7,290.2	41.2	40.4	67.85	1,928.9	28.2	533.6	458.0	75.53	7.064	
9,500.0	7,492.0	9,180.4	7,289.7	43.0	42.2	67.83	2,028.9	28.6	533.7	454.8	78.84	6.769	
9,600.0	7,491.7	9,280.4	7,289.2	44.7	44.0	67.82	2,128.9	29.0	533.8	451.6	82.17	6.496	
9,700.0	7,491.3	9,380.4	7,288.7	46.5	45.8	67.81	2,228.9	29.4	533.9	448.3	85.52	6.243	
9,800.0	7,491.0	9,480.4	7,288.2	48.3	47.6	67.80	2,328.9	29.8	534.0	445.1	88.88	6.008	
9,900.0	7,490.6	9,580.4	7,287.7	50.1	49.4	67.79	2,428.9	30.2	534.1	441.8	92.27	5.788	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
10,000.0	7,490.3	9,680.4	7,287.3	51.9	51.2	67.78	2,528.9	30.6	534.2	438.5	95.66	5.584	
10,100.0	7,489.9	9,780.4	7,286.8	53.7	53.0	67.76	2,628.9	31.0	534.3	435.2	99.07	5.393	
10,200.0	7,489.6	9,880.4	7,286.3	55.5	54.9	67.75	2,728.9	31.4	534.4	431.9	102.49	5.214	
10,300.0	7,489.2	9,980.4	7,285.8	57.3	56.7	67.74	2,828.9	31.8	534.5	428.6	105.92	5.046	
10,400.0	7,488.9	10,080.4	7,285.3	59.1	58.6	67.73	2,928.9	32.3	534.6	425.2	109.36	4.888	
10,500.0	7,488.5	10,180.4	7,284.8	60.9	60.4	67.72	3,028.9	32.7	534.7	421.9	112.81	4.740	
10,600.0	7,488.2	10,280.4	7,284.3	62.8	62.3	67.71	3,128.9	33.1	534.8	418.5	116.27	4.600	
10,700.0	7,487.8	10,380.4	7,283.8	64.6	64.1	67.70	3,228.9	33.5	534.9	415.2	119.73	4.468	
10,800.0	7,487.5	10,480.4	7,283.3	66.5	66.0	67.68	3,328.9	33.9	535.0	411.8	123.20	4.343	
10,900.0	7,487.1	10,580.4	7,282.9	68.3	67.8	67.67	3,428.9	34.3	535.1	408.4	126.67	4.224	
11,000.0	7,486.8	10,680.4	7,282.4	70.2	69.7	67.66	3,528.9	34.7	535.2	405.1	130.15	4.112	
11,100.0	7,486.4	10,780.4	7,281.9	72.0	71.6	67.65	3,628.9	35.1	535.3	401.7	133.64	4.006	
11,200.0	7,486.1	10,880.4	7,281.4	73.9	73.4	67.64	3,728.9	35.5	535.4	398.3	137.12	3.905	
11,300.0	7,485.7	10,980.4	7,280.9	75.7	75.3	67.63	3,828.9	35.9	535.5	394.9	140.62	3.809	
11,400.0	7,485.4	11,080.4	7,280.4	77.6	77.2	67.61	3,928.9	36.4	535.6	391.5	144.11	3.717	
11,500.0	7,485.1	11,180.4	7,279.9	79.5	79.1	67.60	4,028.9	36.8	535.7	388.1	147.61	3.629	
11,600.0	7,484.7	11,280.4	7,279.4	81.3	80.9	67.59	4,128.9	37.2	535.9	384.7	151.11	3.546	
11,700.0	7,484.4	11,380.4	7,278.9	83.2	82.8	67.58	4,228.8	37.6	536.0	381.3	154.62	3.466	
11,800.0	7,484.0	11,480.4	7,278.5	85.1	84.7	67.57	4,328.8	38.0	536.1	377.9	158.12	3.390	
11,900.0	7,483.7	11,580.4	7,278.0	86.9	86.6	67.56	4,428.8	38.4	536.2	374.5	161.63	3.317	
12,000.0	7,483.3	11,680.4	7,277.5	88.8	88.5	67.55	4,528.8	38.8	536.3	371.1	165.15	3.247	
12,088.1	7,483.0	11,768.4	7,277.0	90.5	90.1	67.53	4,616.9	39.2	536.4	368.1	168.24	3.188	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	landmark
Reference Design:	Plan #2 (8-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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	0.0	58.8	58.8				
100.0	100.0	99.0	99.0	0.1	0.1	90.00	0.0	58.8	58.8	58.6	0.22	263.011	
200.0	200.0	199.0	199.0	0.3	0.3	90.00	0.0	58.8	58.8	58.1	0.67	87.525	
300.0	300.0	299.0	299.0	0.6	0.6	90.00	0.0	58.8	58.8	57.7	1.12	52.445	
400.0	400.0	399.0	399.0	0.8	0.8	90.00	0.0	58.8	58.8	57.2	1.57	37.439	
500.0	500.0	499.0	499.0	1.0	1.0	90.00	0.0	58.8	58.8	56.8	2.02	29.110	
600.0	600.0	599.0	599.0	1.2	1.2	90.00	0.0	58.8	58.8	56.4	2.47	23.812	
700.0	700.0	699.0	699.0	1.5	1.5	90.00	0.0	58.8	58.8	55.9	2.92	20.146	
800.0	800.0	799.0	799.0	1.7	1.7	90.00	0.0	58.8	58.8	55.5	3.37	17.458	
900.0	900.0	899.0	899.0	1.9	1.9	90.00	0.0	58.8	58.8	55.0	3.82	15.403	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	90.00	0.0	58.8	58.8	54.6	4.27	13.781	
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.4	90.00	0.0	58.8	58.8	54.1	4.72	12.468	
1,200.0	1,200.0	1,199.0	1,199.0	2.6	2.6	90.00	0.0	58.8	58.8	53.7	5.17	11.383	CC, ES
1,300.0	1,300.0	1,299.0	1,299.0	2.8	2.8	-161.99	0.0	58.8	60.5	54.9	5.60	10.806	
1,400.0	1,399.8	1,398.8	1,398.8	3.0	3.0	-163.38	0.0	58.8	65.5	59.5	6.01	10.900	
1,500.0	1,499.5	1,498.5	1,498.5	3.2	3.3	-165.27	0.0	58.8	73.9	67.5	6.42	11.514	
1,600.0	1,598.7	1,597.7	1,597.7	3.4	3.5	-167.29	0.0	58.8	85.7	78.9	6.82	12.565	
1,700.0	1,697.6	1,696.6	1,696.6	3.7	3.7	-169.11	0.0	58.8	100.0	92.7	7.25	13.797	
1,800.0	1,796.6	1,795.6	1,795.6	4.0	3.9	-170.50	0.0	58.8	114.4	106.7	7.68	14.895	
1,900.0	1,895.5	1,893.0	1,892.9	4.2	4.1	-171.11	-0.9	59.5	129.4	121.3	8.09	15.993	
2,000.0	1,994.4	1,989.9	1,989.8	4.5	4.3	-170.74	-3.7	61.8	145.6	137.1	8.48	17.162	
2,100.0	2,093.3	2,086.4	2,086.1	4.8	4.5	-169.68	-8.3	65.6	163.1	154.2	8.89	18.353	
2,200.0	2,192.3	2,182.2	2,181.5	5.2	4.7	-168.17	-14.8	70.9	182.0	172.7	9.30	19.561	
2,300.0	2,291.2	2,278.7	2,277.5	5.5	4.9	-166.43	-23.0	77.5	202.1	192.4	9.73	20.764	
2,400.0	2,390.1	2,376.4	2,374.6	5.8	5.1	-164.92	-31.5	84.4	222.6	212.4	10.18	21.870	
2,500.0	2,489.0	2,474.2	2,471.7	6.1	5.3	-163.66	-40.0	91.3	243.2	232.6	10.63	22.874	
2,600.0	2,588.0	2,571.9	2,568.8	6.5	5.5	-162.60	-48.5	98.3	263.9	252.8	11.10	23.784	
2,700.0	2,686.9	2,669.6	2,665.9	6.8	5.8	-161.69	-57.0	105.2	284.7	273.1	11.57	24.614	
2,800.0	2,785.8	2,767.3	2,763.1	7.1	6.0	-160.91	-65.5	112.1	305.5	293.5	12.04	25.369	
2,900.0	2,884.7	2,865.1	2,860.2	7.5	6.3	-160.23	-74.0	119.0	326.4	313.9	12.53	26.058	
3,000.0	2,983.7	2,962.8	2,957.3	7.8	6.5	-159.63	-82.5	125.9	347.3	334.3	13.01	26.688	
3,100.0	3,082.6	3,060.5	3,054.4	8.2	6.8	-159.10	-91.0	132.8	368.3	354.8	13.51	27.266	
3,200.0	3,181.5	3,158.2	3,151.5	8.5	7.0	-158.62	-99.5	139.7	389.3	375.3	14.00	27.796	
3,300.0	3,280.5	3,256.0	3,248.6	8.8	7.3	-158.19	-108.0	146.6	410.3	395.8	14.51	28.285	
3,400.0	3,379.4	3,353.7	3,345.7	9.2	7.6	-157.81	-116.5	153.5	431.3	416.3	15.01	28.736	
3,500.0	3,478.3	3,451.4	3,442.8	9.5	7.8	-157.46	-125.0	160.5	452.3	436.8	15.52	29.154	
3,600.0	3,577.2	3,549.2	3,539.9	9.9	8.1	-157.14	-133.5	167.4	473.4	457.4	16.03	29.541	
3,700.0	3,676.2	3,653.3	3,643.5	10.2	8.4	-156.89	-142.1	174.3	494.0	477.5	16.53	29.880	
3,800.0	3,775.1	3,761.3	3,751.1	10.6	8.6	-156.89	-148.7	179.7	512.9	495.9	17.03	30.114	
3,900.0	3,874.0	3,870.0	3,859.7	10.9	8.9	-157.13	-153.0	183.2	529.8	512.3	17.52	30.247	
4,000.0	3,972.9	3,979.3	3,968.9	11.3	9.1	-157.60	-154.9	184.7	544.8	526.9	17.99	30.289	
4,100.0	4,071.9	4,081.2	4,070.9	11.7	9.3	-158.18	-155.0	184.8	558.5	540.1	18.44	30.292	
4,200.0	4,170.8	4,180.1	4,169.8	12.0	9.5	-158.72	-155.0	184.8	572.1	553.2	18.88	30.296	
4,300.0	4,269.7	4,279.0	4,268.7	12.4	9.7	-159.24	-155.0	184.8	585.8	566.4	19.33	30.301	
4,400.0	4,368.6	4,378.0	4,367.6	12.7	9.9	-159.73	-155.0	184.8	599.5	579.7	19.78	30.307	
4,500.0	4,467.6	4,476.9	4,466.6	13.1	10.1	-160.21	-155.0	184.8	613.2	593.0	20.23	30.315	
4,600.0	4,566.5	4,575.8	4,565.5	13.4	10.3	-160.66	-155.0	184.8	627.0	606.3	20.68	30.323	
4,700.0	4,665.6	4,674.9	4,664.6	13.7	10.5	-161.12	-155.0	184.8	639.7	618.5	21.14	30.253	
4,800.0	4,765.1	4,774.4	4,764.1	14.0	10.7	-161.47	-155.0	184.8	649.1	627.5	21.57	30.097	
4,900.0	4,864.9	4,874.2	4,863.9	14.1	10.9	-161.69	-155.0	184.8	655.2	633.2	21.97	29.828	
5,000.0	4,964.8	4,974.2	4,963.8	14.3	11.1	-161.78	-155.0	184.8	658.0	635.7	22.34	29.453	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	landmark
Reference Design:	Plan #2 (8-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	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
5,100.0	5,064.8	5,074.2	5,063.8	14.5	11.3	89.69	-155.0	184.8	658.2	635.5	22.72	28.970	
5,200.0	5,164.8	5,174.2	5,163.8	14.6	11.5	89.69	-155.0	184.8	658.2	635.1	23.12	28.472	
5,300.0	5,264.8	5,274.2	5,263.8	14.8	11.7	89.69	-155.0	184.8	658.2	634.7	23.52	27.990	
5,400.0	5,364.8	5,374.2	5,363.8	14.9	11.9	89.69	-155.0	184.8	658.2	634.3	23.92	27.521	
5,500.0	5,464.8	5,474.2	5,463.8	15.1	12.1	89.69	-155.0	184.8	658.2	633.9	24.32	27.066	
5,600.0	5,564.8	5,574.2	5,563.8	15.3	12.3	89.69	-155.0	184.8	658.2	633.5	24.72	26.623	
5,700.0	5,664.8	5,674.2	5,663.8	15.4	12.5	89.69	-155.0	184.8	658.2	633.1	25.13	26.194	
5,800.0	5,764.8	5,774.2	5,763.8	15.6	12.7	89.69	-155.0	184.8	658.2	632.7	25.54	25.776	
5,900.0	5,864.8	5,874.2	5,863.8	15.8	12.9	89.69	-155.0	184.8	658.2	632.3	25.94	25.371	
6,000.0	5,964.8	5,974.2	5,963.8	15.9	13.1	89.69	-155.0	184.8	658.2	631.9	26.35	24.977	
6,100.0	6,064.8	6,074.2	6,063.8	16.1	13.4	89.69	-155.0	184.8	658.2	631.5	26.76	24.593	
6,200.0	6,164.8	6,174.2	6,163.8	16.3	13.6	89.69	-155.0	184.8	658.2	631.1	27.18	24.220	
6,300.0	6,264.8	6,274.2	6,263.8	16.5	13.8	89.69	-155.0	184.8	658.2	630.6	27.59	23.857	
6,400.0	6,364.8	6,374.2	6,363.8	16.6	14.0	89.69	-155.0	184.8	658.2	630.2	28.00	23.505	
6,500.0	6,464.8	6,474.2	6,463.8	16.8	14.2	89.69	-155.0	184.8	658.2	629.8	28.42	23.161	
6,600.0	6,564.8	6,574.2	6,563.8	17.0	14.4	89.69	-155.0	184.8	658.2	629.4	28.84	22.827	
6,700.0	6,664.8	6,674.2	6,663.8	17.2	14.6	89.69	-155.0	184.8	658.2	629.0	29.25	22.501	
6,800.0	6,764.8	6,774.2	6,763.8	17.3	14.8	89.69	-155.0	184.8	658.2	628.6	29.67	22.184	
6,803.5	6,768.4	6,777.7	6,767.4	17.3	14.8	89.69	-155.0	184.8	658.2	628.5	29.69	22.173	
6,900.0	6,864.8	6,873.1	6,862.6	17.5	15.0	89.28	-150.3	184.8	658.3	628.2	30.06	21.897	
7,000.0	6,964.8	6,968.8	6,956.7	17.7	15.2	87.78	-133.0	184.9	658.8	628.5	30.39	21.680	
7,100.0	7,064.4	7,060.7	7,044.0	17.9	15.3	85.55	-104.8	185.0	660.3	629.7	30.65	21.541	
7,200.0	7,160.8	7,150.0	7,124.8	18.0	15.5	84.02	-66.9	185.2	662.0	631.1	30.86	21.451	
7,300.0	7,250.4	7,241.1	7,201.7	18.1	15.6	83.02	-18.2	185.4	663.2	632.2	31.07	21.348	
7,400.0	7,330.0	7,330.5	7,270.6	18.1	15.7	82.64	38.8	185.6	663.8	632.4	31.35	21.175	
7,500.0	7,396.6	7,419.9	7,331.8	18.2	15.8	82.86	103.8	185.9	663.5	631.7	31.80	20.868	
7,600.0	7,447.7	7,509.6	7,384.6	18.3	16.2	83.68	176.2	186.2	662.5	630.0	32.49	20.387	
7,700.0	7,481.6	7,600.0	7,428.3	18.6	16.7	85.07	255.3	186.5	661.0	627.5	33.51	19.724	
7,800.0	7,497.0	7,691.4	7,462.0	19.0	17.4	87.00	340.3	186.9	659.4	624.6	34.86	18.914	
7,900.0	7,497.6	7,785.5	7,485.0	19.7	18.2	88.99	431.4	187.2	658.6	622.1	36.54	18.027	
7,957.0	7,497.4	7,841.3	7,493.0	20.1	18.7	89.70	486.6	187.5	658.6	620.9	37.64	17.498	
8,000.0	7,497.3	7,884.0	7,496.2	20.5	19.2	89.99	529.2	187.6	658.6	620.1	38.50	17.107	
8,100.0	7,496.9	7,984.1	7,496.7	21.5	20.3	90.06	629.2	188.0	658.6	617.9	40.71	16.180	
8,200.0	7,496.6	8,084.1	7,496.3	22.7	21.5	90.06	729.2	188.5	658.7	615.6	43.14	15.268	
8,300.0	7,496.2	8,184.1	7,495.9	23.9	22.8	90.06	829.2	188.9	658.8	613.0	45.76	14.395	
8,400.0	7,495.9	8,284.1	7,495.6	25.3	24.2	90.06	929.2	189.3	658.8	610.3	48.55	13.571	
8,500.0	7,495.5	8,384.1	7,495.2	26.7	25.7	90.06	1,029.2	189.7	658.9	607.4	51.47	12.802	
8,600.0	7,495.2	8,484.1	7,494.8	28.1	27.2	90.06	1,129.2	190.1	658.9	604.4	54.50	12.091	
8,700.0	7,494.8	8,584.1	7,494.5	29.7	28.8	90.05	1,229.2	190.5	659.0	601.4	57.62	11.436	
8,800.0	7,494.5	8,684.1	7,494.1	31.2	30.4	90.05	1,329.2	190.9	659.0	598.2	60.83	10.835	
8,900.0	7,494.1	8,784.1	7,493.7	32.8	32.0	90.05	1,429.2	191.3	659.1	595.0	64.10	10.282	
9,000.0	7,493.8	8,884.1	7,493.4	34.5	33.7	90.05	1,529.2	191.7	659.2	591.7	67.43	9.775	
9,100.0	7,493.4	8,984.1	7,493.0	36.1	35.4	90.05	1,629.2	192.1	659.2	588.4	70.82	9.309	
9,200.0	7,493.1	9,084.1	7,492.6	37.8	37.1	90.05	1,729.2	192.6	659.3	585.0	74.24	8.880	
9,300.0	7,492.7	9,184.1	7,492.3	39.5	38.8	90.05	1,829.2	193.0	659.3	581.6	77.71	8.485	
9,400.0	7,492.4	9,284.1	7,491.9	41.2	40.6	90.04	1,929.2	193.4	659.4	578.2	81.20	8.120	
9,500.0	7,492.0	9,384.1	7,491.5	43.0	42.3	90.04	2,029.2	193.8	659.4	574.7	84.73	7.783	
9,600.0	7,491.7	9,484.1	7,491.2	44.7	44.1	90.04	2,129.2	194.2	659.5	571.2	88.28	7.471	
9,700.0	7,491.3	9,584.1	7,490.8	46.5	45.9	90.04	2,229.2	194.6	659.5	567.7	91.85	7.181	
9,800.0	7,491.0	9,684.1	7,490.4	48.3	47.7	90.04	2,329.2	195.0	659.6	564.2	95.44	6.911	
9,900.0	7,490.6	9,784.1	7,490.1	50.1	49.5	90.04	2,429.2	195.4	659.7	560.6	99.05	6.660	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	landmark
Reference Design:	Plan #2 (8-5-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

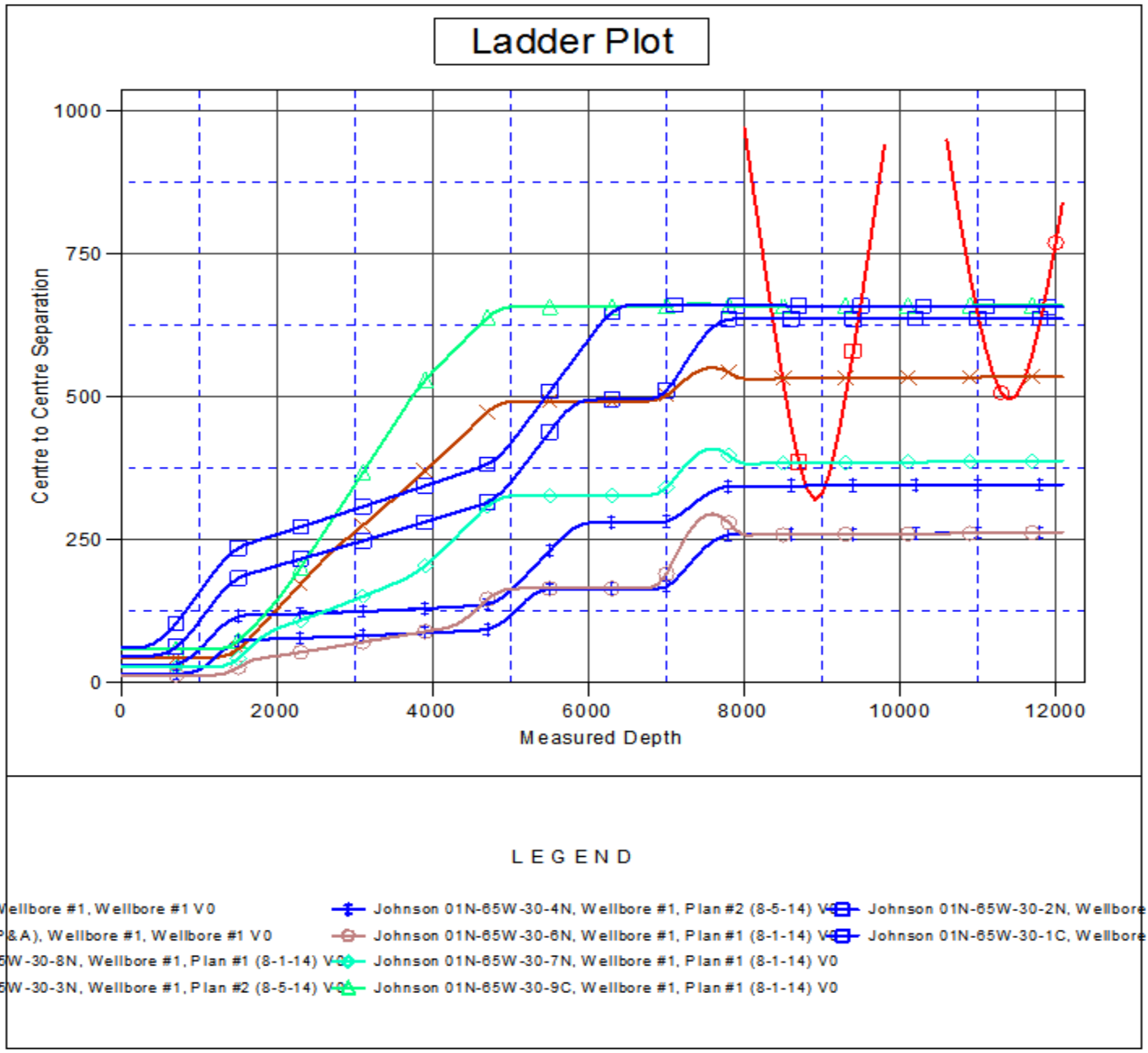
Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,000.0	7,490.3	9,884.1	7,489.7	51.9	51.3	90.03	2,529.2	195.8	659.7	557.0	102.68	6.425	
10,100.0	7,489.9	9,984.1	7,489.3	53.7	53.1	90.03	2,629.2	196.2	659.8	553.5	106.32	6.206	
10,200.0	7,489.6	10,084.1	7,489.0	55.5	55.0	90.03	2,729.2	196.7	659.8	549.9	109.97	6.000	
10,300.0	7,489.2	10,184.1	7,488.6	57.3	56.8	90.03	2,829.2	197.1	659.9	546.2	113.64	5.807	
10,400.0	7,488.9	10,284.1	7,488.2	59.1	58.6	90.03	2,929.2	197.5	659.9	542.6	117.31	5.625	
10,500.0	7,488.5	10,384.1	7,487.9	60.9	60.5	90.03	3,029.2	197.9	660.0	539.0	121.00	5.455	
10,600.0	7,488.2	10,484.1	7,487.5	62.8	62.3	90.03	3,129.2	198.3	660.1	535.4	124.69	5.294	
10,700.0	7,487.8	10,584.1	7,487.1	64.6	64.2	90.02	3,229.2	198.7	660.1	531.7	128.39	5.141	
10,800.0	7,487.5	10,684.1	7,486.8	66.5	66.0	90.02	3,329.2	199.1	660.2	528.1	132.10	4.998	
10,900.0	7,487.1	10,784.1	7,486.4	68.3	67.9	90.02	3,429.2	199.5	660.2	524.4	135.81	4.861	
11,000.0	7,486.8	10,884.1	7,486.0	70.2	69.7	90.02	3,529.2	199.9	660.3	520.7	139.53	4.732	
11,100.0	7,486.4	10,984.1	7,485.7	72.0	71.6	90.02	3,629.2	200.4	660.3	517.1	143.26	4.609	
11,200.0	7,486.1	11,084.1	7,485.3	73.9	73.5	90.02	3,729.2	200.8	660.4	513.4	146.99	4.493	
11,300.0	7,485.7	11,184.1	7,484.9	75.7	75.3	90.01	3,829.2	201.2	660.4	509.7	150.73	4.382	
11,400.0	7,485.4	11,284.1	7,484.6	77.6	77.2	90.01	3,929.2	201.6	660.5	506.0	154.47	4.276	
11,500.0	7,485.1	11,384.1	7,484.2	79.5	79.1	90.01	4,029.2	202.0	660.6	502.3	158.22	4.175	
11,600.0	7,484.7	11,484.1	7,483.8	81.3	81.0	90.01	4,129.2	202.4	660.6	498.6	161.96	4.079	
11,700.0	7,484.4	11,584.1	7,483.5	83.2	82.8	90.01	4,229.2	202.8	660.7	495.0	165.72	3.987	
11,800.0	7,484.0	11,684.1	7,483.1	85.1	84.7	90.01	4,329.2	203.2	660.7	491.3	169.47	3.899	
11,900.0	7,483.7	11,784.1	7,482.7	86.9	86.6	90.01	4,429.2	203.6	660.8	487.5	173.23	3.814	
12,000.0	7,483.3	11,884.1	7,482.4	88.8	88.5	90.00	4,529.2	204.0	660.8	483.8	176.99	3.734	
12,088.1	7,483.0	11,972.1	7,482.0	90.5	90.1	90.00	4,617.2	204.4	660.9	480.6	180.31	3.665	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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-30-5C

Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone

Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.51°



Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Johnson 01N-65W-30-5C
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-30-5C	**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-30-5C
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.51°