

Verdad Oil & Gas Corporation

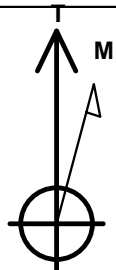
Well Name: **Johnson 01N-65W-30-3N**

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	1249519.15	3221309.76	40.015610	-104.709850	
Original Well Elev WELL @ 5013.0ft (Original Well Elev)						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
460' Setback BHL	1.0	4619.2	-1230.8	Polygon
460' Setback SHL	1.0	255.0	-1230.8	Polygon
Sectionline	1.0	-205.0	-1230.8	Polygon
SHL 205'FSL & 1764'FWL	1.0	0.0	0.0	Point
Lehl 1 300' Circle	7.0	1453.2	-758.2	Circle (Radius: 300.0)
BHL 460'FNL & 1040'FWL	7278.0	4622.8	-706.1	Point

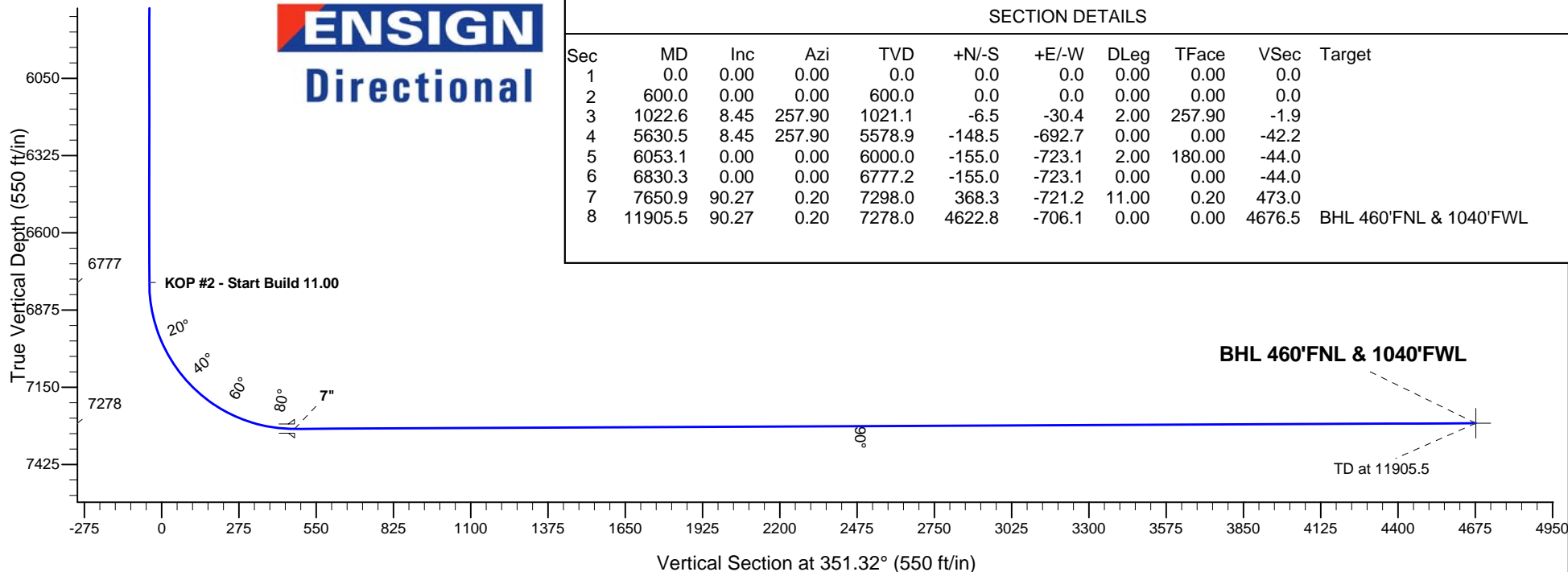
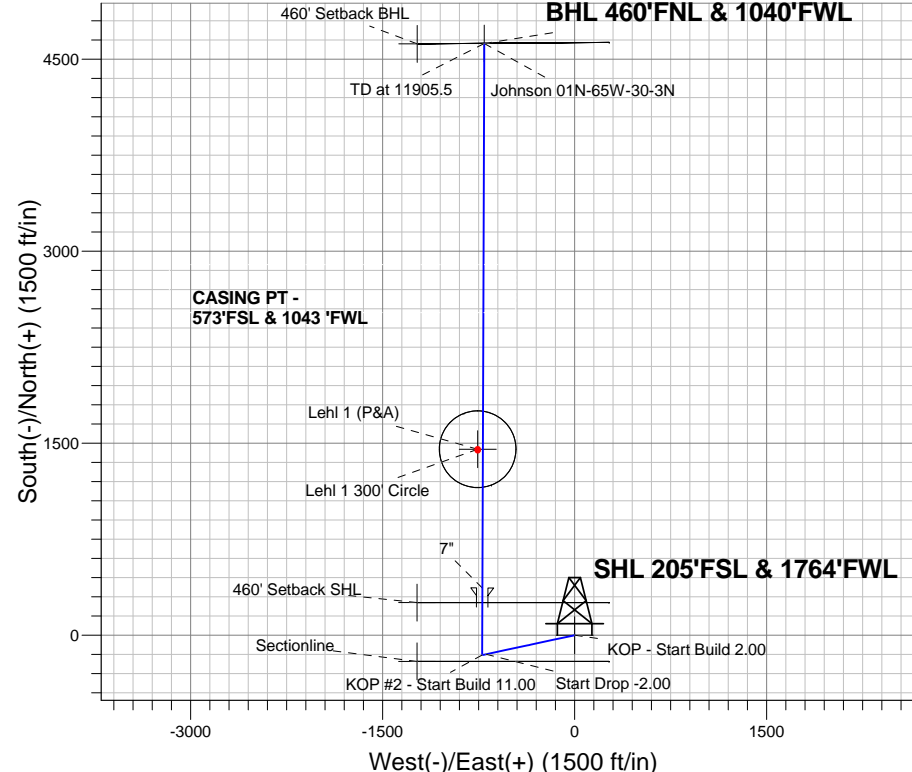


Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W
Johnson 01N-65W-30-3N
Plan #2 (8-5-14)

ANNOTATIONS

Magnetic Field
Strength: 52604.0snT
Dip Angle: 66.64°
Date: 8/1/2014
Model: IGRF2010

TVD	MD	Annotation
600.0	600.0	KOP - Start Build 2.00
5578.9	5630.5	Start Drop -2.00
6777.2	6830.3	KOP #2 - Start Build 11.00
7278.0	11905.5	TD at 11905.5



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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1022.6	8.45	257.90	1021.1	-6.5	-30.4	2.00	257.90	-1.9	
4	5630.5	8.45	257.90	5578.9	-148.5	-692.7	0.00	0.00	-42.2	
5	6053.1	0.00	0.00	6000.0	-155.0	-723.1	2.00	180.00	-44.0	
6	6830.3	0.00	0.00	6777.2	-155.0	-723.1	0.00	0.00	-44.0	
7	7650.9	90.27	0.20	7298.0	368.3	-721.2	11.00	0.20	473.0	
8	11905.5	90.27	0.20	7278.0	4622.8	-706.1	0.00	0.00	4676.5	BHL 460'FNL & 1040'FWL



Verdad Oil & Gas Corporation

SEC.30-T1N-R65W

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

Johnson 01N-65W-30-3N

Wellbore #1

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

Standard Planning Report

05 August, 2014

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (8-5-14)		

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

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

Well	Johnson 01N-65W-30-3N		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	30.8 ft	Easting:
Position Uncertainty		0.0 ft	Wellhead Elevation:
			ft
			Latitude:
			40.015610
			Longitude:
			-104.709850
			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	351.32

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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,022.6	8.45	257.90	1,021.1	-6.5	-30.4	2.00	2.00	0.00	257.90	
5,630.5	8.45	257.90	5,578.9	-148.5	-692.7	0.00	0.00	0.00	0.00	
6,053.1	0.00	0.00	6,000.0	-155.0	-723.1	2.00	-2.00	0.00	180.00	
6,830.3	0.00	0.00	6,777.2	-155.0	-723.1	0.00	0.00	0.00	0.00	
7,650.9	90.27	0.20	7,298.0	368.3	-721.2	11.00	11.00	0.00	0.20	
11,905.5	90.27	0.20	7,278.0	4,622.8	-706.1	0.00	0.00	0.00	0.00	BHL 460'FNL & 10°

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	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
KOP - Start Build 2.00									
700.0	2.00	257.90	700.0	-0.4	-1.7	-0.1	2.00	2.00	0.00
800.0	4.00	257.90	799.8	-1.5	-6.8	-0.4	2.00	2.00	0.00
900.0	6.00	257.90	899.5	-3.3	-15.3	-0.9	2.00	2.00	0.00
1,000.0	8.00	257.90	998.7	-5.8	-27.3	-1.7	2.00	2.00	0.00
1,022.6	8.45	257.90	1,021.1	-6.5	-30.4	-1.9	2.00	2.00	0.00
1,100.0	8.45	257.90	1,097.6	-8.9	-41.5	-2.5	0.00	0.00	0.00
1,200.0	8.45	257.90	1,196.5	-12.0	-55.9	-3.4	0.00	0.00	0.00
1,300.0	8.45	257.90	1,295.5	-15.1	-70.3	-4.3	0.00	0.00	0.00
1,400.0	8.45	257.90	1,394.4	-18.1	-84.7	-5.2	0.00	0.00	0.00
1,500.0	8.45	257.90	1,493.3	-21.2	-99.0	-6.0	0.00	0.00	0.00
1,600.0	8.45	257.90	1,592.2	-24.3	-113.4	-6.9	0.00	0.00	0.00
1,700.0	8.45	257.90	1,691.1	-27.4	-127.8	-7.8	0.00	0.00	0.00
1,800.0	8.45	257.90	1,790.0	-30.5	-142.2	-8.7	0.00	0.00	0.00
1,900.0	8.45	257.90	1,888.9	-33.6	-156.5	-9.5	0.00	0.00	0.00
2,000.0	8.45	257.90	1,987.9	-36.6	-170.9	-10.4	0.00	0.00	0.00
2,100.0	8.45	257.90	2,086.8	-39.7	-185.3	-11.3	0.00	0.00	0.00
2,200.0	8.45	257.90	2,185.7	-42.8	-199.6	-12.2	0.00	0.00	0.00
2,300.0	8.45	257.90	2,284.6	-45.9	-214.0	-13.0	0.00	0.00	0.00
2,400.0	8.45	257.90	2,383.5	-49.0	-228.4	-13.9	0.00	0.00	0.00
2,500.0	8.45	257.90	2,482.4	-52.0	-242.8	-14.8	0.00	0.00	0.00
2,600.0	8.45	257.90	2,581.3	-55.1	-257.1	-15.7	0.00	0.00	0.00
2,700.0	8.45	257.90	2,680.2	-58.2	-271.5	-16.5	0.00	0.00	0.00
2,800.0	8.45	257.90	2,779.2	-61.3	-285.9	-17.4	0.00	0.00	0.00
2,900.0	8.45	257.90	2,878.1	-64.4	-300.2	-18.3	0.00	0.00	0.00
3,000.0	8.45	257.90	2,977.0	-67.4	-314.6	-19.2	0.00	0.00	0.00
3,100.0	8.45	257.90	3,075.9	-70.5	-329.0	-20.0	0.00	0.00	0.00
3,200.0	8.45	257.90	3,174.8	-73.6	-343.4	-20.9	0.00	0.00	0.00
3,300.0	8.45	257.90	3,273.7	-76.7	-357.7	-21.8	0.00	0.00	0.00
3,400.0	8.45	257.90	3,372.6	-79.8	-372.1	-22.7	0.00	0.00	0.00
3,500.0	8.45	257.90	3,471.6	-82.8	-386.5	-23.5	0.00	0.00	0.00
3,600.0	8.45	257.90	3,570.5	-85.9	-400.8	-24.4	0.00	0.00	0.00
3,700.0	8.45	257.90	3,669.4	-89.0	-415.2	-25.3	0.00	0.00	0.00
3,800.0	8.45	257.90	3,768.3	-92.1	-429.6	-26.2	0.00	0.00	0.00
3,900.0	8.45	257.90	3,867.2	-95.2	-444.0	-27.0	0.00	0.00	0.00
4,000.0	8.45	257.90	3,966.1	-98.2	-458.3	-27.9	0.00	0.00	0.00
4,100.0	8.45	257.90	4,065.0	-101.3	-472.7	-28.8	0.00	0.00	0.00
4,200.0	8.45	257.90	4,164.0	-104.4	-487.1	-29.7	0.00	0.00	0.00
4,300.0	8.45	257.90	4,262.9	-107.5	-501.5	-30.5	0.00	0.00	0.00
4,400.0	8.45	257.90	4,361.8	-110.6	-515.8	-31.4	0.00	0.00	0.00
4,500.0	8.45	257.90	4,460.7	-113.7	-530.2	-32.3	0.00	0.00	0.00
4,600.0	8.45	257.90	4,559.6	-116.7	-544.6	-33.2	0.00	0.00	0.00
4,700.0	8.45	257.90	4,658.5	-119.8	-558.9	-34.0	0.00	0.00	0.00
4,800.0	8.45	257.90	4,757.4	-122.9	-573.3	-34.9	0.00	0.00	0.00
4,900.0	8.45	257.90	4,856.4	-126.0	-587.7	-35.8	0.00	0.00	0.00
5,000.0	8.45	257.90	4,955.3	-129.1	-602.1	-36.7	0.00	0.00	0.00

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Project:	SEC.30-T1N-R65W	MD Reference:	WELL @ 5013.0ft (Original Well Elev)
Site:	Johnson 01N-65W-30-1C Pad	North Reference:	True
	Sec.30-T1N-R65W		
Well:	Johnson 01N-65W-30-3N	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)	
5,100.0	8.45	257.90	5,054.2	-132.1	-616.4	-37.5	0.00	0.00	0.00	
5,200.0	8.45	257.90	5,153.1	-135.2	-630.8	-38.4	0.00	0.00	0.00	
5,300.0	8.45	257.90	5,252.0	-138.3	-645.2	-39.3	0.00	0.00	0.00	
5,400.0	8.45	257.90	5,350.9	-141.4	-659.5	-40.2	0.00	0.00	0.00	
5,500.0	8.45	257.90	5,449.8	-144.5	-673.9	-41.0	0.00	0.00	0.00	
5,600.0	8.45	257.90	5,548.8	-147.5	-688.3	-41.9	0.00	0.00	0.00	
5,630.5	8.45	257.90	5,578.9	-148.5	-692.7	-42.2	0.00	0.00	0.00	
Start Drop -2.00										
5,700.0	7.06	257.90	5,647.8	-150.4	-701.8	-42.7	2.00	-2.00	0.00	
5,800.0	5.06	257.90	5,747.2	-152.7	-712.2	-43.4	2.00	-2.00	0.00	
5,900.0	3.06	257.90	5,847.0	-154.1	-719.1	-43.8	2.00	-2.00	0.00	
6,000.0	1.06	257.90	5,946.9	-154.9	-722.6	-44.0	2.00	-2.00	0.00	
6,053.1	0.00	0.00	6,000.0	-155.0	-723.1	-44.0	2.00	-2.00	0.00	
6,100.0	0.00	0.00	6,046.9	-155.0	-723.1	-44.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,146.9	-155.0	-723.1	-44.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,246.9	-155.0	-723.1	-44.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,346.9	-155.0	-723.1	-44.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,446.9	-155.0	-723.1	-44.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,546.9	-155.0	-723.1	-44.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,646.9	-155.0	-723.1	-44.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,746.9	-155.0	-723.1	-44.0	0.00	0.00	0.00	
6,830.3	0.00	0.00	6,777.2	-155.0	-723.1	-44.0	0.00	0.00	0.00	
KOP #2 - Start Build 11.00										
6,900.0	7.67	0.20	6,846.7	-150.3	-723.1	-39.4	11.00	11.00	0.00	
7,000.0	18.67	0.20	6,943.9	-127.6	-723.0	-17.0	11.00	11.00	0.00	
7,100.0	29.67	0.20	7,035.0	-86.7	-722.9	23.4	11.00	11.00	0.00	
7,200.0	40.67	0.20	7,116.6	-29.2	-722.7	80.2	11.00	11.00	0.00	
7,300.0	51.67	0.20	7,185.8	42.8	-722.4	151.4	11.00	11.00	0.00	
7,400.0	62.67	0.20	7,239.9	126.7	-722.1	234.3	11.00	11.00	0.00	
7,500.0	73.67	0.20	7,277.0	219.4	-721.8	325.9	11.00	11.00	0.00	
7,600.0	84.67	0.20	7,295.8	317.5	-721.4	422.7	11.00	11.00	0.00	
7,650.9	90.27	0.20	7,298.0	368.3	-721.2	473.0	11.00	11.00	0.00	
7"										
7,700.0	90.27	0.20	7,297.8	417.4	-721.1	521.5	0.01	0.01	0.00	
7,800.0	90.27	0.20	7,297.3	517.4	-720.7	620.3	0.00	0.00	0.00	
7,900.0	90.27	0.20	7,296.9	617.4	-720.4	719.1	0.00	0.00	0.00	
8,000.0	90.27	0.20	7,296.4	717.4	-720.0	817.9	0.00	0.00	0.00	
8,100.0	90.27	0.20	7,295.9	817.4	-719.6	916.7	0.00	0.00	0.00	
8,200.0	90.27	0.20	7,295.5	917.4	-719.3	1,015.5	0.00	0.00	0.00	
8,300.0	90.27	0.20	7,295.0	1,017.4	-718.9	1,114.3	0.00	0.00	0.00	
8,400.0	90.27	0.20	7,294.5	1,117.4	-718.6	1,213.1	0.00	0.00	0.00	
8,500.0	90.27	0.20	7,294.0	1,217.4	-718.2	1,311.9	0.00	0.00	0.00	
8,600.0	90.27	0.20	7,293.6	1,317.4	-717.9	1,410.7	0.00	0.00	0.00	
8,700.0	90.27	0.20	7,293.1	1,417.4	-717.5	1,509.5	0.00	0.00	0.00	
8,800.0	90.27	0.20	7,292.6	1,517.4	-717.1	1,608.3	0.00	0.00	0.00	
8,900.0	90.27	0.20	7,292.2	1,617.4	-716.8	1,707.1	0.00	0.00	0.00	
9,000.0	90.27	0.20	7,291.7	1,717.4	-716.4	1,805.9	0.00	0.00	0.00	
9,100.0	90.27	0.20	7,291.2	1,817.4	-716.1	1,904.7	0.00	0.00	0.00	
9,200.0	90.27	0.20	7,290.7	1,917.4	-715.7	2,003.4	0.00	0.00	0.00	
9,300.0	90.27	0.20	7,290.3	2,017.4	-715.4	2,102.2	0.00	0.00	0.00	
9,400.0	90.27	0.20	7,289.8	2,117.4	-715.0	2,201.0	0.00	0.00	0.00	
9,500.0	90.27	0.20	7,289.3	2,217.4	-714.7	2,299.8	0.00	0.00	0.00	
9,600.0	90.27	0.20	7,288.9	2,317.4	-714.3	2,398.6	0.00	0.00	0.00	

Database:	landmark	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (8-5-14)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,700.0	90.27	0.20	7,288.4	2,417.4	-713.9	2,497.4	0.00	0.00	0.00
9,800.0	90.27	0.20	7,287.9	2,517.4	-713.6	2,596.2	0.00	0.00	0.00
9,900.0	90.27	0.20	7,287.5	2,617.4	-713.2	2,695.0	0.00	0.00	0.00
10,000.0	90.27	0.20	7,287.0	2,717.4	-712.9	2,793.8	0.00	0.00	0.00
10,100.0	90.27	0.20	7,286.5	2,817.3	-712.5	2,892.6	0.00	0.00	0.00
10,200.0	90.27	0.20	7,286.0	2,917.3	-712.2	2,991.4	0.00	0.00	0.00
10,300.0	90.27	0.20	7,285.6	3,017.3	-711.8	3,090.2	0.00	0.00	0.00
10,400.0	90.27	0.20	7,285.1	3,117.3	-711.5	3,189.0	0.00	0.00	0.00
10,500.0	90.27	0.20	7,284.6	3,217.3	-711.1	3,287.8	0.00	0.00	0.00
10,600.0	90.27	0.20	7,284.2	3,317.3	-710.7	3,386.6	0.00	0.00	0.00
10,700.0	90.27	0.20	7,283.7	3,417.3	-710.4	3,485.4	0.00	0.00	0.00
10,800.0	90.27	0.20	7,283.2	3,517.3	-710.0	3,584.2	0.00	0.00	0.00
10,900.0	90.27	0.20	7,282.7	3,617.3	-709.7	3,683.0	0.00	0.00	0.00
11,000.0	90.27	0.20	7,282.3	3,717.3	-709.3	3,781.8	0.00	0.00	0.00
11,100.0	90.27	0.20	7,281.8	3,817.3	-709.0	3,880.6	0.00	0.00	0.00
11,200.0	90.27	0.20	7,281.3	3,917.3	-708.6	3,979.4	0.00	0.00	0.00
11,300.0	90.27	0.20	7,280.9	4,017.3	-708.3	4,078.2	0.00	0.00	0.00
11,400.0	90.27	0.20	7,280.4	4,117.3	-707.9	4,177.0	0.00	0.00	0.00
11,500.0	90.27	0.20	7,279.9	4,217.3	-707.5	4,275.8	0.00	0.00	0.00
11,600.0	90.27	0.20	7,279.4	4,317.3	-707.2	4,374.6	0.00	0.00	0.00
11,700.0	90.27	0.20	7,279.0	4,417.3	-706.8	4,473.4	0.00	0.00	0.00
11,800.0	90.27	0.20	7,278.5	4,517.3	-706.5	4,572.2	0.00	0.00	0.00
11,900.0	90.27	0.20	7,278.0	4,617.3	-706.1	4,671.0	0.00	0.00	0.00
11,905.5	90.27	0.20	7,278.0	4,622.8	-706.1	4,676.4	0.00	0.00	0.00
TD at 11905.5									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,650.9	7,298.0	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
600.0	600.0	0.0	0.0	KOP - Start Build 2.00
5,630.5	5,578.9	-6.5	-30.4	Start Drop -2.00
6,830.3	6,777.2	-147.1	-686.1	KOP #2 - Start Build 11.00
11,905.5	7,278.0	-148.5	-692.7	TD at 11905.5



Verdad Oil & Gas Corporation

SEC.30-T1N-R65W

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

Johnson 01N-65W-30-3N

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-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date 8/5/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,905.5	Plan #2 (8-5-14) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Existing Wells Sec.30-T1N-R65W						
Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1	11,230.3	7,259.2	776.6	553.7	3.484	CC, ES
Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1	11,300.0	7,258.9	779.7	555.5	3.478	SF
Lehl 1 (P&A) - Wellbore #1 - Wellbore #1	8,735.6	7,286.9	40.8	-137.6	0.229	Level 1, CC, ES, SF
Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W						
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	200.0	200.0	30.8	30.1	45.693	CC, ES
Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8-5-14)	11,905.5	12,150.9	429.7	269.7	2.685	SF
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	400.0	400.0	16.8	15.2	10.682	CC, ES
Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8-5-14)	11,905.5	11,732.0	291.8	148.0	2.029	SF
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #1 (8-1-14)	600.0	600.0	14.5	12.0	5.853	CC
Johnson 01N-65W-30-4N - Wellbore #1 - Plan #1 (8-1-14)	11,905.5	11,814.2	115.2	-65.3	0.638	Level 1, ES, SF
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #1 (8-1-14)	600.0	600.0	31.0	28.6	12.549	CC, ES
Johnson 01N-65W-30-5C - Wellbore #1 - Plan #1 (8-1-14)	11,905.5	12,003.3	347.4	193.6	2.259	SF
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8-1-14)	600.0	600.0	45.0	42.5	18.186	CC, ES
Johnson 01N-65W-30-6N - Wellbore #1 - Plan #1 (8-1-14)	11,905.5	11,789.2	445.6	265.2	2.470	SF
Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8-1-14)	600.0	599.0	58.9	56.5	23.858	CC, ES
Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8-1-14)	11,905.5	11,777.9	610.9	430.5	3.387	SF
Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8-1-14)	600.0	599.0	75.7	73.2	30.651	CC, ES
Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8-1-14)	11,905.5	11,767.5	776.1	595.6	4.301	SF
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14)	600.0	599.0	89.7	87.2	36.316	CC, ES
Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8-1-14)	11,905.5	11,971.0	963.4	786.0	5.432	SF

Offset Design Existing Wells Sec.30-T1N-R65W - Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1												
Survey Program: 8208-UNKNOWN												
Reference Offset Semi Major Axis Distance												
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
10,700.0	7,283.7	7,261.7	7,261.7	68.7	145.2	90.18	3,944.9	68.1	940.4	727.3	213.05	4.414
10,800.0	7,283.2	7,261.2	7,261.2	70.5	145.2	90.15	3,944.9	68.1	887.8	672.9	214.90	4.131
10,900.0	7,282.7	7,260.7	7,260.7	72.3	145.2	90.11	3,944.9	68.1	843.9	627.1	216.75	3.893
11,000.0	7,282.3	7,260.3	7,260.3	74.2	145.2	90.08	3,944.9	68.1	810.0	591.4	218.60	3.705
11,100.0	7,281.8	7,259.8	7,259.8	76.0	145.2	90.05	3,944.9	68.1	787.4	567.0	220.46	3.572
11,200.0	7,281.3	7,259.3	7,259.3	77.9	145.2	90.01	3,944.9	68.1	777.2	554.8	222.31	3.496

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Existing Wells Sec.30-T1N-R65W - Gilmore 1-30 (P&A) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 8208-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
11,230.3	7,281.2	7,259.2	7,259.2	78.4	145.2	90.00	3,944.9	68.1	776.6	553.7	222.88	3.484	CC, ES	
11,300.0	7,280.9	7,258.9	7,258.9	79.7	145.2	89.98	3,944.9	68.1	779.7	555.5	224.17	3.478	SF	
11,400.0	7,280.4	7,258.4	7,258.4	81.6	145.2	89.94	3,944.9	68.1	794.9	568.8	226.04	3.517		
11,500.0	7,279.9	7,257.9	7,257.9	83.4	145.2	89.91	3,944.9	68.1	822.1	594.2	227.90	3.607		
11,600.0	7,279.4	7,257.4	7,257.4	85.3	145.1	89.87	3,944.9	68.1	860.1	630.3	229.76	3.743		
11,700.0	7,279.0	7,257.0	7,257.0	87.2	145.1	89.84	3,944.9	68.1	907.6	675.9	231.63	3.918		
11,800.0	7,278.5	7,256.5	7,256.5	89.0	145.1	89.80	3,944.9	68.1	963.1	729.6	233.50	4.125		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Reference	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
7,800.0	7,297.3	7,291.3	7,291.3	22.5	145.8	-96.17		1,453.2	-758.2	936.5	772.4	164.09	5.707	
7,900.0	7,296.9	7,290.9	7,290.9	23.3	145.8	-95.51		1,453.2	-758.2	836.6	671.3	165.36	5.059	
8,000.0	7,296.4	7,290.4	7,290.4	24.3	145.8	-94.86		1,453.2	-758.2	736.8	570.0	166.73	4.419	
8,100.0	7,295.9	7,289.9	7,289.9	25.4	145.8	-94.20		1,453.2	-758.2	636.9	468.8	168.18	3.787	
8,200.0	7,295.5	7,289.5	7,289.5	26.6	145.8	-93.54		1,453.2	-758.2	537.2	367.5	169.69	3.166	
8,300.0	7,295.0	7,289.0	7,289.0	27.9	145.8	-92.88		1,453.2	-758.2	437.5	266.3	171.25	2.555	
8,400.0	7,294.5	7,288.5	7,288.5	29.3	145.8	-92.22		1,453.2	-758.2	338.1	165.3	172.86	1.956	
8,500.0	7,294.0	7,288.0	7,288.0	30.8	145.8	-91.56		1,453.2	-758.2	239.1	64.7	174.49	1.371 Level 3	
8,600.0	7,293.6	7,287.6	7,287.6	32.2	145.8	-90.90		1,453.2	-758.2	141.6	-34.5	176.14	0.804 Level 1	
8,700.0	7,293.1	7,287.1	7,287.1	33.8	145.7	-90.24		1,453.2	-758.2	54.2	-123.6	177.80	0.305 Level 1	
8,735.6	7,292.9	7,286.9	7,286.9	34.3	145.7	-90.00		1,453.2	-758.2	40.8	-137.6	178.40	0.229 Level 1, CC, ES, SF	
8,800.0	7,292.6	7,286.6	7,286.6	35.4	145.7	-89.57		1,453.2	-758.2	76.2	-103.3	179.47	0.425 Level 1	
8,900.0	7,292.2	7,286.2	7,286.2	37.0	145.7	-88.91		1,453.2	-758.2	169.3	-11.8	181.15	0.935 Level 1	
9,000.0	7,291.7	7,285.7	7,285.7	38.6	145.7	-88.25		1,453.2	-758.2	267.5	84.7	182.82	1.463 Level 3	
9,100.0	7,291.2	7,285.2	7,285.2	40.3	145.7	-87.59		1,453.2	-758.2	366.6	182.2	184.48	1.987	
9,200.0	7,290.7	7,284.7	7,284.7	41.9	145.7	-86.93		1,453.2	-758.2	466.1	280.0	186.14	2.504	
9,300.0	7,290.3	7,284.3	7,284.3	43.6	145.7	-86.27		1,453.2	-758.2	565.8	378.0	187.79	3.013	
9,400.0	7,289.8	7,283.8	7,283.8	45.4	145.7	-85.61		1,453.2	-758.2	665.6	476.2	189.43	3.514	
9,500.0	7,289.3	7,283.3	7,283.3	47.1	145.7	-84.96		1,453.2	-758.2	765.4	574.4	191.05	4.007	
9,600.0	7,288.9	7,282.9	7,282.9	48.8	145.7	-84.30		1,453.2	-758.2	865.3	672.7	192.65	4.492	
9,700.0	7,288.4	7,282.4	7,282.4	50.6	145.6	-83.65		1,453.2	-758.2	965.2	771.0	194.24	4.969	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	-90.00	0.0	-30.8	30.8				
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	-90.00	0.0	-30.8	30.8	30.6	0.22	137.080	
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	-90.00	0.0	-30.8	30.8	30.1	0.67	45.693 CC, ES	
300.0	300.0	298.9	298.9	0.6	0.5	-90.44	-90.44	-0.2	-32.5	32.5	31.4	1.11	29.301	
400.0	400.0	397.6	397.4	0.8	0.8	-91.52	-91.52	-1.0	-37.5	37.6	36.1	1.55	24.251	
500.0	500.0	495.8	495.3	1.0	1.0	-92.78	-92.78	-2.2	-45.9	46.2	44.2	2.02	22.861	
600.0	600.0	593.3	592.1	1.2	1.3	-93.92	-93.92	-3.9	-57.5	58.2	55.6	2.52	23.062	
700.0	700.0	690.2	687.8	1.4	1.6	7.39	7.39	-6.1	-72.2	71.8	68.9	2.90	24.751	
800.0	799.8	788.2	784.2	1.7	2.0	7.02	7.02	-8.7	-89.8	84.8	81.4	3.33	25.440	
900.0	899.5	887.7	882.0	1.9	2.4	6.99	6.99	-11.4	-108.0	94.6	90.9	3.77	25.098	
1,000.0	998.7	987.5	980.1	2.1	2.8	7.21	7.21	-14.1	-126.3	101.1	96.9	4.22	23.926	
1,100.0	1,097.6	1,087.4	1,078.3	2.4	3.2	7.58	7.58	-16.8	-144.5	105.1	100.4	4.70	22.365	
1,200.0	1,196.5	1,187.3	1,176.4	2.7	3.6	7.94	7.94	-19.5	-162.8	109.0	103.8	5.18	21.030	
1,300.0	1,295.5	1,287.3	1,274.6	3.0	4.0	8.27	8.27	-22.2	-181.1	112.9	107.3	5.67	19.908	
1,400.0	1,394.4	1,387.2	1,372.8	3.4	4.4	8.58	8.58	-24.9	-199.3	116.9	110.7	6.17	18.942	
1,500.0	1,493.3	1,487.1	1,471.0	3.7	4.9	8.87	8.87	-27.6	-217.6	120.8	114.1	6.67	18.112	
1,600.0	1,592.2	1,587.0	1,569.2	4.0	5.3	9.14	9.14	-30.3	-235.9	124.8	117.6	7.17	17.390	
1,700.0	1,691.1	1,687.0	1,667.4	4.4	5.7	9.39	9.39	-33.0	-254.2	128.7	121.0	7.68	16.758	
1,800.0	1,790.0	1,786.9	1,765.6	4.7	6.1	9.63	9.63	-35.7	-272.4	132.6	124.5	8.19	16.199	
1,900.0	1,888.9	1,886.8	1,863.8	5.1	6.5	9.86	9.86	-38.4	-290.7	136.6	127.9	8.70	15.701	
2,000.0	1,987.9	1,986.7	1,962.0	5.4	6.9	10.07	10.07	-41.1	-309.0	140.5	131.3	9.21	15.257	
2,100.0	2,086.8	2,086.6	2,060.2	5.8	7.4	10.27	10.27	-43.8	-327.2	144.5	134.8	9.73	14.856	
2,200.0	2,185.7	2,186.6	2,158.4	6.1	7.8	10.46	10.46	-46.5	-345.5	148.4	138.2	10.24	14.494	
2,300.0	2,284.6	2,286.5	2,256.6	6.5	8.2	10.64	10.64	-49.2	-363.8	152.4	141.6	10.76	14.166	
2,400.0	2,383.5	2,386.4	2,354.8	6.8	8.6	10.81	10.81	-51.9	-382.1	156.3	145.1	11.28	13.866	
2,500.0	2,482.4	2,486.3	2,453.0	7.2	9.1	10.97	10.97	-54.6	-400.3	160.3	148.5	11.79	13.591	
2,600.0	2,581.3	2,586.2	2,551.2	7.6	9.5	11.13	11.13	-57.3	-418.6	164.3	151.9	12.31	13.339	
2,700.0	2,680.2	2,686.2	2,649.4	7.9	9.9	11.28	11.28	-60.0	-436.9	168.2	155.4	12.84	13.106	
2,800.0	2,779.2	2,786.1	2,747.6	8.3	10.3	11.42	11.42	-62.7	-455.1	172.2	158.8	13.36	12.890	
2,900.0	2,878.1	2,886.0	2,845.8	8.6	10.7	11.55	11.55	-65.4	-473.4	176.1	162.3	13.88	12.691	
3,000.0	2,977.0	2,985.9	2,944.0	9.0	11.2	11.68	11.68	-68.1	-491.7	180.1	165.7	14.40	12.505	
3,100.0	3,075.9	3,085.8	3,042.2	9.3	11.6	11.80	11.80	-70.8	-509.9	184.1	169.1	14.93	12.331	
3,200.0	3,174.8	3,185.8	3,140.4	9.7	12.0	11.92	11.92	-73.5	-528.2	188.0	172.6	15.45	12.170	
3,300.0	3,273.7	3,285.7	3,238.6	10.1	12.4	12.03	12.03	-76.2	-546.5	192.0	176.0	15.98	12.018	
3,400.0	3,372.6	3,385.6	3,336.8	10.4	12.9	12.14	12.14	-78.9	-564.8	196.0	179.5	16.50	11.876	
3,500.0	3,471.6	3,485.5	3,435.0	10.8	13.3	12.25	12.25	-81.6	-583.0	199.9	182.9	17.03	11.742	
3,600.0	3,570.5	3,585.4	3,533.2	11.1	13.7	12.35	12.35	-84.3	-601.3	203.9	186.3	17.55	11.616	
3,700.0	3,669.4	3,685.4	3,631.4	11.5	14.1	12.44	12.44	-87.0	-619.6	207.9	189.8	18.08	11.497	
3,800.0	3,768.3	3,785.3	3,729.6	11.9	14.5	12.54	12.54	-89.7	-637.8	211.8	193.2	18.61	11.384	
3,900.0	3,867.2	3,885.2	3,827.8	12.2	15.0	12.62	12.62	-92.4	-656.1	215.8	196.7	19.13	11.278	
4,000.0	3,966.1	3,985.1	3,926.0	12.6	15.4	12.71	12.71	-95.1	-674.4	219.8	200.1	19.66	11.177	
4,100.0	4,065.0	4,085.0	4,024.2	12.9	15.8	12.79	12.79	-97.8	-692.7	223.7	203.5	20.19	11.081	
4,200.0	4,164.0	4,185.0	4,122.4	13.3	16.2	12.87	12.87	-100.5	-710.9	227.7	207.0	20.72	10.990	
4,300.0	4,262.9	4,284.9	4,220.6	13.7	16.7	12.95	12.95	-103.2	-729.2	231.7	210.4	21.25	10.903	
4,400.0	4,361.8	4,384.8	4,318.8	14.0	17.1	13.03	13.03	-105.9	-747.5	235.6	213.9	21.78	10.821	
4,500.0	4,460.7	4,484.7	4,417.0	14.4	17.5	13.10	13.10	-108.6	-765.7	239.6	217.3	22.31	10.742	
4,600.0	4,559.6	4,584.7	4,515.2	14.7	17.9	13.17	13.17	-111.4	-784.0	243.6	220.7	22.84	10.667	
4,700.0	4,658.5	4,684.6	4,613.4	15.1	18.4	13.24	13.24	-114.1	-802.3	247.6	224.2	23.37	10.595	
4,800.0	4,757.4	4,784.5	4,711.6	15.5	18.8	13.30	13.30	-116.8	-820.6	251.5	227.6	23.90	10.526	
4,900.0	4,856.4	4,884.4	4,809.8	15.8	19.2	13.36	13.36	-119.5	-838.8	255.5	231.1	24.43	10.460	
5,000.0	4,955.3	4,984.3	4,908.0	16.2	19.6	13.43	13.43	-122.2	-857.1	259.5	234.5	24.96	10.397	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,100.0	5,054.2	5,084.3	5,006.2	16.6	20.0	13.49	-124.9	-875.4	263.4	238.0	25.49	10.336		
5,200.0	5,153.1	5,184.2	5,104.4	16.9	20.5	13.54	-127.6	-893.6	267.4	241.4	26.02	10.278		
5,300.0	5,252.0	5,284.1	5,202.6	17.3	20.9	13.60	-130.3	-911.9	271.4	244.8	26.55	10.222		
5,400.0	5,350.9	5,384.0	5,300.8	17.6	21.3	13.65	-133.0	-930.2	275.4	248.3	27.08	10.168		
5,500.0	5,449.8	5,483.9	5,399.0	18.0	21.7	13.71	-135.7	-948.4	279.3	251.7	27.61	10.116		
5,600.0	5,548.8	5,583.9	5,497.2	18.4	22.2	13.76	-138.4	-966.7	283.3	255.2	28.14	10.067		
5,700.0	5,647.8	5,683.7	5,595.4	18.7	22.6	13.79	-141.1	-985.0	288.1	259.5	28.64	10.060		
5,800.0	5,747.2	5,783.4	5,693.3	18.9	23.0	13.68	-143.8	-1,003.2	296.1	267.1	29.04	10.196		
5,900.0	5,847.0	5,882.7	5,790.9	19.1	23.4	13.44	-146.4	-1,021.4	307.5	278.1	29.39	10.464		
6,000.0	5,946.9	5,981.6	5,888.1	19.2	23.9	13.10	-149.1	-1,039.5	322.3	292.6	29.68	10.858		
6,100.0	6,046.9	6,081.9	5,986.7	19.4	24.3	-89.46	-151.8	-1,057.7	340.0	310.1	29.98	11.343		
6,200.0	6,146.9	6,194.1	6,097.4	19.5	24.6	-89.91	-154.4	-1,075.5	355.8	325.5	30.33	11.732		
6,300.0	6,246.9	6,307.6	6,210.0	19.7	24.9	-90.23	-156.4	-1,089.1	367.8	337.1	30.69	11.985		
6,400.0	6,346.9	6,421.9	6,324.0	19.8	25.1	-90.43	-157.8	-1,098.3	375.9	344.8	31.05	12.106		
6,500.0	6,446.9	6,536.9	6,438.9	19.9	25.2	-90.53	-158.5	-1,103.0	380.0	348.6	31.41	12.097		
6,600.0	6,546.9	6,644.9	6,546.9	20.1	25.4	-90.54	-158.6	-1,103.6	380.5	348.8	31.77	11.976		
6,700.0	6,646.9	6,744.9	6,646.9	20.2	25.5	-90.54	-158.6	-1,103.6	380.5	348.4	32.13	11.845		
6,800.0	6,746.9	6,844.9	6,746.9	20.4	25.6	-90.54	-158.6	-1,103.6	380.5	348.0	32.48	11.715		
6,823.7	6,770.6	6,868.6	6,770.6	20.4	25.6	-90.80	-158.6	-1,103.6	380.5	348.0	32.58	11.681		
6,900.0	6,846.7	6,944.7	6,846.7	20.5	25.7	-91.43	-158.6	-1,103.6	380.6	347.8	32.77	11.615		
7,000.0	6,943.9	7,041.9	6,943.9	20.6	25.8	-94.61	-158.6	-1,103.6	381.9	349.1	32.74	11.663		
7,100.0	7,035.0	7,142.2	7,044.0	20.7	25.9	-99.59	-154.3	-1,103.6	386.8	354.2	32.61	11.863		
7,200.0	7,116.6	7,254.1	7,152.6	20.7	26.0	-104.65	-128.1	-1,103.5	395.1	362.7	32.45	12.176		
7,300.0	7,185.8	7,377.7	7,262.9	20.8	26.1	-109.30	-73.1	-1,103.3	405.5	373.4	32.16	12.608		
7,400.0	7,239.9	7,514.4	7,366.1	20.9	26.1	-113.27	16.0	-1,102.9	416.1	384.4	31.73	13.116		
7,500.0	7,277.0	7,663.9	7,448.2	21.1	26.2	-116.17	140.4	-1,102.4	424.7	393.4	31.33	13.557		
7,600.0	7,295.8	7,823.0	7,493.1	21.4	26.5	-117.62	292.3	-1,101.7	429.2	397.8	31.41	13.667		
7,700.0	7,297.8	7,950.6	7,497.7	21.8	26.9	-117.73	419.7	-1,101.2	429.5	397.1	32.38	13.263		
7,800.0	7,297.3	8,050.6	7,497.3	22.5	27.4	-117.75	519.7	-1,100.8	429.5	395.6	33.91	12.665		
7,900.0	7,296.9	8,150.6	7,497.0	23.3	28.0	-117.77	619.7	-1,100.4	429.5	393.8	35.71	12.027		
8,000.0	7,296.4	8,250.6	7,496.6	24.3	28.7	-117.78	719.7	-1,100.0	429.5	391.8	37.74	11.381		
8,100.0	7,295.9	8,350.6	7,496.3	25.4	29.6	-117.80	819.7	-1,099.6	429.5	389.5	39.96	10.748		
8,200.0	7,295.5	8,450.6	7,495.9	26.6	30.6	-117.82	919.7	-1,099.1	429.5	387.2	42.35	10.142		
8,300.0	7,295.0	8,550.6	7,495.6	27.9	31.7	-117.84	1,019.7	-1,098.7	429.5	384.6	44.88	9.571		
8,400.0	7,294.5	8,650.6	7,495.2	29.3	32.8	-117.86	1,119.7	-1,098.3	429.5	382.0	47.52	9.039		
8,500.0	7,294.0	8,750.6	7,494.9	30.8	34.1	-117.88	1,219.7	-1,097.9	429.5	379.3	50.25	8.547		
8,600.0	7,293.6	8,850.6	7,494.5	32.2	35.4	-117.89	1,319.7	-1,097.5	429.5	376.5	53.07	8.093		
8,700.0	7,293.1	8,950.6	7,494.2	33.8	36.8	-117.91	1,419.6	-1,097.1	429.5	373.6	55.96	7.675		
8,800.0	7,292.6	9,050.6	7,493.8	35.4	38.2	-117.93	1,519.6	-1,096.6	429.5	370.6	58.91	7.291		
8,900.0	7,292.2	9,150.6	7,493.5	37.0	39.7	-117.95	1,619.6	-1,096.2	429.5	367.6	61.91	6.938		
9,000.0	7,291.7	9,250.6	7,493.1	38.6	41.2	-117.97	1,719.6	-1,095.8	429.5	364.6	64.95	6.613		
9,100.0	7,291.2	9,350.6	7,492.8	40.3	42.8	-117.98	1,819.6	-1,095.4	429.6	361.5	68.03	6.314		
9,200.0	7,290.7	9,450.6	7,492.4	41.9	44.4	-118.00	1,919.6	-1,095.0	429.6	358.4	71.15	6.038		
9,300.0	7,290.3	9,550.6	7,492.1	43.6	46.0	-118.02	2,019.6	-1,094.6	429.6	355.3	74.29	5.783		
9,400.0	7,289.8	9,650.6	7,491.7	45.4	47.6	-118.04	2,119.6	-1,094.2	429.6	352.1	77.45	5.546		
9,500.0	7,289.3	9,750.6	7,491.4	47.1	49.2	-118.06	2,219.6	-1,093.7	429.6	348.9	80.64	5.327		
9,600.0	7,288.9	9,850.6	7,491.0	48.8	50.9	-118.07	2,319.6	-1,093.3	429.6	345.7	83.84	5.124		
9,700.0	7,288.4	9,950.6	7,490.7	50.6	52.6	-118.09	2,419.6	-1,092.9	429.6	342.5	87.06	4.934		
9,800.0	7,287.9	10,050.6	7,490.3	52.4	54.3	-118.11	2,519.6	-1,092.5	429.6	339.3	90.30	4.757		
9,900.0	7,287.5	10,150.6	7,490.0	54.2	56.0	-118.13	2,619.6	-1,092.1	429.6	336.0	93.55	4.592		
10,000.0	7,287.0	10,250.6	7,489.6	55.9	57.8	-118.15	2,719.6	-1,091.7	429.6	332.8	96.81	4.437		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-1C - Wellbore #1 - Plan #2 (8												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.0	7,286.5	10,350.6	7,489.3	57.7	59.5	-118.16	2,819.6	-1,091.3	429.6	329.5	100.08	4.292	
10,200.0	7,286.0	10,450.6	7,488.9	59.5	61.2	-118.18	2,919.6	-1,090.8	429.6	326.2	103.37	4.156	
10,300.0	7,285.6	10,550.6	7,488.6	61.4	63.0	-118.20	3,019.6	-1,090.4	429.6	323.0	106.66	4.028	
10,400.0	7,285.1	10,650.6	7,488.2	63.2	64.8	-118.22	3,119.6	-1,090.0	429.6	319.7	109.95	3.907	
10,500.0	7,284.6	10,750.6	7,487.9	65.0	66.6	-118.24	3,219.6	-1,089.6	429.6	316.4	113.26	3.793	
10,600.0	7,284.2	10,850.6	7,487.5	66.8	68.3	-118.25	3,319.6	-1,089.2	429.6	313.1	116.57	3.686	
10,700.0	7,283.7	10,950.6	7,487.2	68.7	70.1	-118.27	3,419.6	-1,088.8	429.6	309.8	119.89	3.584	
10,800.0	7,283.2	11,050.6	7,486.8	70.5	71.9	-118.29	3,519.6	-1,088.4	429.6	306.4	123.21	3.487	
10,900.0	7,282.7	11,150.6	7,486.5	72.3	73.7	-118.31	3,619.6	-1,087.9	429.7	303.1	126.54	3.395	
11,000.0	7,282.3	11,250.6	7,486.1	74.2	75.5	-118.33	3,719.6	-1,087.5	429.7	299.8	129.87	3.308	
11,100.0	7,281.8	11,350.6	7,485.8	76.0	77.4	-118.35	3,819.6	-1,087.1	429.7	296.5	133.20	3.226	
11,200.0	7,281.3	11,450.6	7,485.4	77.9	79.2	-118.36	3,919.6	-1,086.7	429.7	293.1	136.54	3.147	
11,300.0	7,280.9	11,550.6	7,485.1	79.7	81.0	-118.38	4,019.6	-1,086.3	429.7	289.8	139.88	3.072	
11,400.0	7,280.4	11,650.6	7,484.7	81.6	82.8	-118.40	4,119.6	-1,085.9	429.7	286.5	143.22	3.000	
11,500.0	7,279.9	11,750.6	7,484.4	83.4	84.7	-118.42	4,219.6	-1,085.4	429.7	283.1	146.57	2.932	
11,600.0	7,279.4	11,850.6	7,484.0	85.3	86.5	-118.44	4,319.6	-1,085.0	429.7	279.8	149.92	2.866	
11,700.0	7,279.0	11,950.6	7,483.7	87.2	88.3	-118.45	4,419.6	-1,084.6	429.7	276.4	153.27	2.804	
11,800.0	7,278.5	12,050.6	7,483.3	89.0	90.2	-118.47	4,519.6	-1,084.2	429.7	273.1	156.62	2.744	
11,900.0	7,278.0	12,150.6	7,483.0	90.9	92.1	-118.49	4,619.6	-1,083.8	429.7	269.7	159.97	2.686	
11,905.5	7,278.0	12,150.9	7,483.0	91.0	92.1	-118.49	4,619.9	-1,083.8	429.7	269.7	160.07	2.685 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	-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	-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	-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	-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	-90.00	0.0	-16.8	16.8	15.2	1.57	10.682 CC, ES	
500.0	500.0	499.4	499.4	1.0	1.0	-90.88	-90.88	-0.3	-18.5	18.5	16.5	2.01	9.224	
600.0	600.0	598.5	598.4	1.2	1.2	-92.77	-92.77	-1.1	-23.6	23.7	21.2	2.44	9.695	
700.0	700.0	697.4	696.8	1.4	1.4	7.94	7.94	-2.6	-32.0	30.5	27.7	2.86	10.684	
800.0	799.8	796.0	794.7	1.7	1.7	7.30	7.30	-4.5	-43.7	37.4	34.1	3.27	11.429	
900.0	899.5	894.3	891.9	1.9	2.0	7.05	7.05	-7.1	-58.8	44.2	40.5	3.70	11.957	
1,000.0	998.7	993.7	989.7	2.1	2.4	7.13	7.13	-10.0	-76.4	50.1	46.0	4.14	12.111	
1,100.0	1,097.6	1,093.7	1,087.9	2.4	2.7	7.52	7.52	-13.0	-94.2	53.7	49.1	4.60	11.681	
1,200.0	1,196.5	1,193.6	1,186.2	2.7	3.1	7.87	7.87	-16.0	-112.1	57.2	52.2	5.07	11.282	
1,300.0	1,295.5	1,293.5	1,284.5	3.0	3.5	8.18	8.18	-19.0	-129.9	60.8	55.2	5.56	10.936	
1,400.0	1,394.4	1,393.5	1,382.8	3.4	3.9	8.45	8.45	-22.0	-147.8	64.3	58.2	6.05	10.635	
1,500.0	1,493.3	1,493.4	1,481.1	3.7	4.3	8.70	8.70	-25.0	-165.6	67.8	61.3	6.54	10.372	
1,600.0	1,592.2	1,593.3	1,579.4	4.0	4.7	8.92	8.92	-28.0	-183.5	71.3	64.3	7.04	10.140	
1,700.0	1,691.1	1,693.3	1,677.6	4.4	5.1	9.13	9.13	-31.0	-201.3	74.9	67.3	7.54	9.935	
1,800.0	1,790.0	1,793.2	1,775.9	4.7	5.5	9.31	9.31	-34.0	-219.2	78.4	70.4	8.04	9.752	
1,900.0	1,888.9	1,893.2	1,874.2	5.1	5.9	9.48	9.48	-37.0	-237.0	81.9	73.4	8.54	9.588	
2,000.0	1,987.9	1,993.1	1,972.5	5.4	6.3	9.63	9.63	-40.0	-254.9	85.4	76.4	9.05	9.440	
2,100.0	2,086.8	2,093.0	2,070.8	5.8	6.8	9.77	9.77	-43.0	-272.7	89.0	79.4	9.56	9.307	
2,200.0	2,185.7	2,193.0	2,169.1	6.1	7.2	9.90	9.90	-46.0	-290.6	92.5	82.4	10.07	9.186	
2,300.0	2,284.6	2,292.9	2,267.4	6.5	7.6	10.03	10.03	-49.0	-308.4	96.0	85.4	10.58	9.075	
2,400.0	2,383.5	2,392.8	2,365.6	6.8	8.0	10.14	10.14	-52.0	-326.3	99.6	88.5	11.09	8.974	
2,500.0	2,482.4	2,492.8	2,463.9	7.2	8.4	10.24	10.24	-55.0	-344.1	103.1	91.5	11.61	8.881	
2,600.0	2,581.3	2,592.7	2,562.2	7.6	8.8	10.34	10.34	-58.0	-362.0	106.6	94.5	12.12	8.795	
2,700.0	2,680.2	2,692.7	2,660.5	7.9	9.2	10.43	10.43	-61.0	-379.8	110.1	97.5	12.64	8.716	
2,800.0	2,779.2	2,792.6	2,758.8	8.3	9.6	10.52	10.52	-64.0	-397.7	113.7	100.5	13.15	8.643	
2,900.0	2,878.1	2,892.5	2,857.1	8.6	10.1	10.60	10.60	-67.0	-415.5	117.2	103.5	13.67	8.575	
3,000.0	2,977.0	2,992.5	2,955.3	9.0	10.5	10.68	10.68	-70.0	-433.4	120.7	106.6	14.19	8.511	
3,100.0	3,075.9	3,092.4	3,053.6	9.3	10.9	10.75	10.75	-73.0	-451.2	124.3	109.6	14.70	8.452	
3,200.0	3,174.8	3,192.3	3,151.9	9.7	11.3	10.82	10.82	-76.0	-469.1	127.8	112.6	15.22	8.396	
3,300.0	3,273.7	3,292.3	3,250.2	10.1	11.7	10.88	10.88	-79.0	-486.9	131.3	115.6	15.74	8.344	
3,400.0	3,372.6	3,392.2	3,348.5	10.4	12.1	10.94	10.94	-82.0	-504.8	134.9	118.6	16.26	8.295	
3,500.0	3,471.6	3,492.2	3,446.8	10.8	12.6	11.00	11.00	-85.0	-522.6	138.4	121.6	16.78	8.249	
3,600.0	3,570.5	3,592.1	3,545.1	11.1	13.0	11.06	11.06	-88.0	-540.5	141.9	124.6	17.30	8.205	
3,700.0	3,669.4	3,692.0	3,643.3	11.5	13.4	11.11	11.11	-91.0	-558.3	145.5	127.6	17.82	8.164	
3,800.0	3,768.3	3,792.0	3,741.6	11.9	13.8	11.16	11.16	-94.0	-576.2	149.0	130.7	18.34	8.125	
3,900.0	3,867.2	3,891.9	3,839.9	12.2	14.2	11.21	11.21	-97.0	-594.0	152.5	133.7	18.86	8.089	
4,000.0	3,966.1	3,991.8	3,938.2	12.6	14.6	11.25	11.25	-100.0	-611.9	156.1	136.7	19.38	8.054	
4,100.0	4,065.0	4,091.8	4,036.5	12.9	15.0	11.29	11.29	-103.0	-629.7	159.6	139.7	19.90	8.020	
4,200.0	4,164.0	4,191.7	4,134.8	13.3	15.5	11.34	11.34	-106.0	-647.6	163.1	142.7	20.42	7.989	
4,300.0	4,262.9	4,291.7	4,233.0	13.7	15.9	11.37	11.37	-109.0	-665.4	166.7	145.7	20.94	7.959	
4,400.0	4,361.8	4,391.6	4,331.3	14.0	16.3	11.41	11.41	-112.0	-683.3	170.2	148.7	21.46	7.930	
4,500.0	4,460.7	4,491.5	4,429.6	14.4	16.7	11.45	11.45	-115.0	-701.1	173.7	151.7	21.98	7.903	
4,600.0	4,559.6	4,591.5	4,527.9	14.7	17.1	11.48	11.48	-118.0	-719.0	177.3	154.8	22.50	7.877	
4,700.0	4,658.5	4,691.4	4,626.2	15.1	17.5	11.52	11.52	-121.0	-736.8	180.8	157.8	23.03	7.852	
4,800.0	4,757.4	4,791.3	4,724.5	15.5	18.0	11.55	11.55	-124.0	-754.7	184.3	160.8	23.55	7.828	
4,900.0	4,856.4	4,891.3	4,822.8	15.8	18.4	11.58	11.58	-127.0	-772.5	187.9	163.8	24.07	7.805	
5,000.0	4,955.3	4,991.2	4,921.0	16.2	18.8	11.61	11.61	-130.0	-790.4	191.4	166.8	24.59	7.783	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design		Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8										Offset Site Error:		0.0 ft	
Survey Program: 0-MWD												Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis		Distance								Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
5,100.0	5,054.2	5,091.2	5,019.3	16.6	19.2	11.64	-133.0	-808.2	194.9	169.8	25.11	7.762			
5,200.0	5,153.1	5,191.1	5,117.6	16.9	19.6	11.67	-136.0	-826.1	198.5	172.8	25.64	7.741			
5,300.0	5,252.0	5,291.0	5,215.9	17.3	20.0	11.70	-139.0	-843.9	202.0	175.8	26.16	7.722			
5,400.0	5,350.9	5,391.0	5,314.2	17.6	20.5	11.72	-142.0	-861.8	205.5	178.8	26.68	7.703			
5,500.0	5,449.8	5,490.9	5,412.5	18.0	20.9	11.75	-145.0	-879.6	209.1	181.9	27.20	7.685			
5,600.0	5,548.8	5,593.2	5,513.1	18.4	21.3	11.78	-148.1	-897.7	212.4	184.7	27.72	7.662			
5,700.0	5,647.8	5,701.1	5,619.8	18.7	21.6	11.90	-150.8	-913.8	213.8	185.6	28.18	7.587			
5,800.0	5,747.2	5,809.1	5,727.0	18.9	21.8	12.00	-152.8	-926.0	214.7	186.2	28.55	7.522			
5,900.0	5,847.0	5,917.1	5,834.7	19.1	22.0	12.06	-154.2	-934.1	215.3	186.5	28.86	7.461			
6,000.0	5,946.9	6,025.1	5,942.6	19.2	22.2	12.09	-154.9	-938.2	215.7	186.5	29.13	7.404			
6,100.0	6,046.9	6,129.4	6,046.9	19.4	22.3	-90.00	-155.0	-938.8	215.7	186.3	29.40	7.337			
6,200.0	6,146.9	6,229.4	6,146.9	19.5	22.4	-90.00	-155.0	-938.8	215.7	186.0	29.75	7.250			
6,300.0	6,246.9	6,329.4	6,246.9	19.7	22.6	-90.00	-155.0	-938.8	215.7	185.6	30.11	7.165			
6,400.0	6,346.9	6,429.4	6,346.9	19.8	22.7	-90.00	-155.0	-938.8	215.7	185.2	30.46	7.081			
6,500.0	6,446.9	6,529.4	6,446.9	19.9	22.8	-90.00	-155.0	-938.8	215.7	184.9	30.82	6.999			
6,600.0	6,546.9	6,629.4	6,546.9	20.1	22.9	-90.00	-155.0	-938.8	215.7	184.5	31.18	6.918			
6,659.7	6,606.6	6,689.1	6,606.6	20.2	23.0	-89.78	-154.2	-938.8	215.7	184.3	31.42	6.866			
6,700.0	6,646.9	6,729.1	6,646.4	20.2	23.1	-88.77	-150.4	-938.8	215.7	184.1	31.66	6.815			
6,800.0	6,746.9	6,824.0	6,738.8	20.4	23.1	-83.20	-129.3	-938.7	217.3	184.6	32.63	6.659			
6,900.0	6,846.7	6,910.7	6,818.6	20.5	23.2	-75.15	-95.7	-938.6	224.1	189.9	34.21	6.550			
7,000.0	6,943.9	6,993.0	6,888.2	20.6	23.2	-67.62	-51.9	-938.4	235.0	199.5	35.43	6.632			
7,100.0	7,035.0	7,072.3	6,948.0	20.7	23.3	-61.34	0.1	-938.1	247.9	212.2	35.70	6.944			
7,200.0	7,116.6	7,150.0	6,998.2	20.7	23.3	-56.32	59.3	-937.9	261.1	226.1	34.96	7.468			
7,300.0	7,185.8	7,224.3	7,037.5	20.8	23.4	-52.55	122.2	-937.6	273.1	239.6	33.52	8.149			
7,400.0	7,239.9	7,300.0	7,068.0	20.9	23.5	-49.79	191.5	-937.3	283.0	251.0	31.95	8.858			
7,500.0	7,277.0	7,371.0	7,087.1	21.1	23.6	-48.08	259.8	-937.0	289.9	258.9	31.05	9.336			
7,600.0	7,295.8	7,450.0	7,097.3	21.4	23.8	-47.19	338.1	-936.7	293.6	262.1	31.48	9.324			
7,607.7	7,296.5	7,450.0	7,097.3	21.4	23.8	-47.19	338.1	-936.7	293.6	262.1	31.54	9.308			
7,700.0	7,297.8	7,529.3	7,097.8	21.8	24.2	-47.11	417.4	-936.4	293.9	260.9	32.98	8.912			
7,800.0	7,297.3	7,629.3	7,097.3	22.5	24.7	-47.10	517.4	-936.0	293.8	259.3	34.56	8.503			
7,900.0	7,296.9	7,729.3	7,096.9	23.3	25.4	-47.09	617.4	-935.5	293.8	257.5	36.31	8.091			
8,000.0	7,296.4	7,829.3	7,096.4	24.3	26.3	-47.08	717.4	-935.1	293.7	255.5	38.21	7.686			
8,100.0	7,295.9	7,929.3	7,095.9	25.4	27.2	-47.07	817.4	-934.7	293.7	253.4	40.25	7.297			
8,200.0	7,295.5	8,029.3	7,095.4	26.6	28.3	-47.06	917.4	-934.3	293.6	251.2	42.39	6.926			
8,300.0	7,295.0	8,129.3	7,095.0	27.9	29.5	-47.05	1,017.3	-933.8	293.6	249.0	44.63	6.578			
8,400.0	7,294.5	8,229.3	7,094.5	29.3	30.8	-47.05	1,117.3	-933.4	293.5	246.6	46.95	6.252			
8,500.0	7,294.0	8,329.3	7,094.0	30.8	32.2	-47.04	1,217.3	-933.0	293.5	244.1	49.34	5.948			
8,600.0	7,293.6	8,429.3	7,093.6	32.2	33.6	-47.03	1,317.3	-932.6	293.4	241.6	51.79	5.666			
8,700.0	7,293.1	8,529.3	7,093.1	33.8	35.0	-47.02	1,417.3	-932.1	293.4	239.1	54.29	5.404			
8,800.0	7,292.6	8,629.3	7,092.6	35.4	36.6	-47.01	1,517.3	-931.7	293.3	236.5	56.84	5.161			
8,900.0	7,292.2	8,729.3	7,092.1	37.0	38.1	-47.00	1,617.3	-931.3	293.3	233.9	59.42	4.936			
9,000.0	7,291.7	8,829.3	7,091.7	38.6	39.7	-46.99	1,717.3	-930.9	293.2	231.2	62.04	4.727			
9,100.0	7,291.2	8,929.3	7,091.2	40.3	41.3	-46.98	1,817.3	-930.4	293.2	228.5	64.68	4.533			
9,200.0	7,290.7	9,029.3	7,090.7	41.9	42.9	-46.97	1,917.3	-930.0	293.1	225.8	67.36	4.352			
9,300.0	7,290.3	9,129.3	7,090.3	43.6	44.6	-46.96	2,017.3	-929.6	293.1	223.0	70.05	4.184			
9,400.0	7,289.8	9,229.3	7,089.8	45.4	46.3	-46.95	2,117.3	-929.2	293.0	220.3	72.77	4.027			
9,500.0	7,289.3	9,329.3	7,089.3	47.1	48.0	-46.95	2,217.3	-928.7	293.0	217.5	75.50	3.881			
9,600.0	7,288.9	9,429.3	7,088.8	48.8	49.7	-46.94	2,317.3	-928.3	292.9	214.7	78.25	3.744			
9,700.0	7,288.4	9,529.3	7,088.4	50.6	51.4	-46.93	2,417.3	-927.9	292.9	211.9	81.02	3.615			
9,800.0	7,287.9	9,629.3	7,087.9	52.4	53.1	-46.92	2,517.3	-927.5	292.8	209.0	83.79	3.495			
9,900.0	7,287.5	9,729.3	7,087.4	54.2	54.9	-46.91	2,617.3	-927.0	292.8	206.2	86.58	3.382			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-2N - Wellbore #1 - Plan #2 (8												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,000.0	7,287.0	9,829.3	7,087.0	55.9	56.7	-46.90	2,717.3	-926.6	292.7	203.4	89.38	3.275	
10,100.0	7,286.5	9,929.3	7,086.5	57.7	58.4	-46.89	2,817.3	-926.2	292.7	200.5	92.19	3.175	
10,200.0	7,286.0	10,029.3	7,086.0	59.5	60.2	-46.88	2,917.3	-925.8	292.6	197.6	95.01	3.080	
10,300.0	7,285.6	10,129.3	7,085.5	61.4	62.0	-46.87	3,017.3	-925.4	292.6	194.8	97.83	2.991	
10,400.0	7,285.1	10,229.3	7,085.1	63.2	63.8	-46.86	3,117.3	-924.9	292.5	191.9	100.66	2.906	
10,500.0	7,284.6	10,329.3	7,084.6	65.0	65.6	-46.85	3,217.3	-924.5	292.5	189.0	103.50	2.826	
10,600.0	7,284.2	10,429.3	7,084.1	66.8	67.4	-46.85	3,317.3	-924.1	292.4	186.1	106.34	2.750	
10,700.0	7,283.7	10,529.3	7,083.7	68.7	69.2	-46.84	3,417.3	-923.7	292.4	183.2	109.19	2.678	
10,800.0	7,283.2	10,629.3	7,083.2	70.5	71.1	-46.83	3,517.3	-923.2	292.3	180.3	112.05	2.609	
10,900.0	7,282.7	10,729.3	7,082.7	72.3	72.9	-46.82	3,617.3	-922.8	292.3	177.4	114.91	2.544	
11,000.0	7,282.3	10,829.3	7,082.3	74.2	74.7	-46.81	3,717.3	-922.4	292.2	174.5	117.77	2.481	
11,100.0	7,281.8	10,929.3	7,081.8	76.0	76.5	-46.80	3,817.3	-922.0	292.2	171.6	120.64	2.422	
11,200.0	7,281.3	11,029.3	7,081.3	77.9	78.4	-46.79	3,917.3	-921.5	292.1	168.6	123.50	2.365	
11,300.0	7,280.9	11,129.3	7,080.8	79.7	80.2	-46.78	4,017.3	-921.1	292.1	165.7	126.38	2.311	
11,400.0	7,280.4	11,229.3	7,080.4	81.6	82.1	-46.77	4,117.3	-920.7	292.0	162.8	129.25	2.259	
11,500.0	7,279.9	11,329.3	7,079.9	83.4	83.9	-46.76	4,217.3	-920.3	292.0	159.9	132.13	2.210	
11,600.0	7,279.4	11,429.3	7,079.4	85.3	85.8	-46.75	4,317.3	-919.8	291.9	156.9	135.01	2.162	
11,700.0	7,279.0	11,529.3	7,079.0	87.2	87.6	-46.74	4,417.3	-919.4	291.9	154.0	137.89	2.117	
11,800.0	7,278.5	11,629.3	7,078.5	89.0	89.5	-46.74	4,517.3	-919.0	291.8	151.1	140.78	2.073	
11,900.0	7,278.0	11,729.3	7,078.0	90.9	91.3	-46.73	4,617.3	-918.6	291.8	148.1	143.67	2.031	
11,902.8	7,278.0	11,732.0	7,078.0	91.0	91.4	-46.73	4,619.9	-918.6	291.8	148.0	143.74	2.030	
11,905.5	7,278.0	11,732.0	7,078.0	91.0	91.4	-46.73	4,619.9	-918.6	291.8	148.0	143.78	2.029 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	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 #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	75.42		3.6	14.0	14.5	14.5	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	75.42		3.6	14.0	14.5	14.2	0.22	64.383	
200.0	200.0	200.0	200.0	0.3	0.3	75.42		3.6	14.0	14.5	13.8	0.67	21.461	
300.0	300.0	300.0	300.0	0.6	0.6	75.42		3.6	14.0	14.5	13.3	1.12	12.877	
400.0	400.0	400.0	400.0	0.8	0.8	75.42		3.6	14.0	14.5	12.9	1.57	9.198	
500.0	500.0	500.0	500.0	1.0	1.0	75.42		3.6	14.0	14.5	12.4	2.02	7.154	
600.0	600.0	600.0	600.0	1.2	1.2	75.42		3.6	14.0	14.5	12.0	2.47	5.853 CC	
700.0	700.0	700.0	700.0	1.4	1.5	177.78		3.6	14.0	16.2	13.3	2.91	5.578	
800.0	799.8	799.8	799.8	1.7	1.7	178.32		3.6	14.0	21.4	18.1	3.33	6.437	
900.0	899.5	900.5	900.4	1.9	1.9	178.87		3.2	12.3	28.4	24.7	3.74	7.595	
1,000.0	998.7	1,001.3	1,001.2	2.1	2.1	179.43		1.9	7.2	35.4	31.2	4.14	8.543	
1,100.0	1,097.6	1,102.5	1,102.0	2.4	2.3	179.98		-0.3	-1.5	41.2	36.7	4.56	9.050	
1,200.0	1,196.5	1,204.0	1,202.7	2.7	2.6	-179.38		-3.4	-13.6	43.7	38.7	4.99	8.748	
1,300.0	1,295.5	1,304.4	1,301.9	3.0	2.8	-178.63		-7.0	-27.9	43.6	38.2	5.44	8.022	
1,400.0	1,394.4	1,404.4	1,400.8	3.4	3.1	-177.87		-10.7	-42.3	43.5	37.6	5.89	7.381	
1,500.0	1,493.3	1,504.4	1,499.7	3.7	3.5	-177.11		-14.4	-56.7	43.4	37.0	6.35	6.824	
1,600.0	1,592.2	1,604.4	1,598.6	4.0	3.8	-176.34		-18.1	-71.1	43.3	36.4	6.82	6.338	
1,700.0	1,691.1	1,704.4	1,697.5	4.4	4.1	-175.57		-21.7	-85.5	43.1	35.8	7.30	5.912	
1,800.0	1,790.0	1,804.4	1,796.4	4.7	4.4	-174.79		-25.4	-99.9	43.0	35.3	7.78	5.534	
1,900.0	1,888.9	1,904.3	1,895.3	5.1	4.8	-174.01		-29.1	-114.3	43.0	34.7	8.27	5.197	
2,000.0	1,987.9	2,004.3	1,994.1	5.4	5.1	-173.23		-32.7	-128.7	42.9	34.1	8.76	4.896	
2,100.0	2,086.8	2,104.3	2,093.0	5.8	5.5	-172.45		-36.4	-143.1	42.8	33.6	9.25	4.626	
2,200.0	2,185.7	2,204.3	2,191.9	6.1	5.8	-171.66		-40.1	-157.4	42.7	33.0	9.76	4.381	
2,300.0	2,284.6	2,304.3	2,290.8	6.5	6.1	-170.87		-43.8	-171.8	42.7	32.4	10.26	4.159	
2,400.0	2,383.5	2,404.3	2,389.7	6.8	6.5	-170.08		-47.4	-186.2	42.6	31.9	10.77	3.957	
2,500.0	2,482.4	2,504.3	2,488.6	7.2	6.9	-169.29		-51.1	-200.6	42.6	31.3	11.29	3.772	
2,600.0	2,581.3	2,604.3	2,587.5	7.6	7.2	-168.49		-54.8	-215.0	42.6	30.7	11.81	3.602	
2,700.0	2,680.2	2,704.3	2,686.4	7.9	7.6	-167.70		-58.4	-229.4	42.5	30.2	12.34	3.446	
2,800.0	2,779.2	2,804.3	2,785.3	8.3	7.9	-166.90		-62.1	-243.8	42.5	29.6	12.88	3.302	
2,900.0	2,878.1	2,904.3	2,884.1	8.6	8.3	-166.10		-65.8	-258.2	42.5	29.1	13.42	3.168	
2,955.9	2,933.4	2,960.3	2,939.4	8.8	8.5	-165.66		-67.8	-266.2	42.5	28.8	13.72	3.098	
3,000.0	2,977.0	3,004.3	2,983.0	9.0	8.6	-165.31		-69.5	-272.6	42.5	28.5	13.96	3.044	
3,100.0	3,075.9	3,104.3	3,081.9	9.3	9.0	-164.51		-73.1	-287.0	42.5	28.0	14.51	2.929	
3,200.0	3,174.8	3,204.3	3,180.8	9.7	9.3	-163.71		-76.8	-301.4	42.5	27.5	15.07	2.822	
3,300.0	3,273.7	3,304.3	3,279.7	10.1	9.7	-162.92		-80.5	-315.8	42.6	26.9	15.64	2.721	
3,400.0	3,372.6	3,404.3	3,378.6	10.4	10.1	-162.12		-84.1	-330.2	42.6	26.4	16.21	2.627	
3,500.0	3,471.6	3,504.3	3,477.5	10.8	10.4	-161.33		-87.8	-344.6	42.6	25.8	16.79	2.539	
3,600.0	3,570.5	3,604.3	3,576.4	11.1	10.8	-160.54		-91.5	-359.0	42.7	25.3	17.37	2.457	
3,700.0	3,669.4	3,704.3	3,675.3	11.5	11.1	-159.75		-95.2	-373.3	42.7	24.8	17.96	2.379	
3,800.0	3,768.3	3,804.3	3,774.1	11.9	11.5	-158.96		-98.8	-387.7	42.8	24.2	18.56	2.306	
3,900.0	3,867.2	3,904.3	3,873.0	12.2	11.9	-158.17		-102.5	-402.1	42.9	23.7	19.16	2.237	
4,000.0	3,966.1	4,004.3	3,971.9	12.6	12.2	-157.39		-106.2	-416.5	42.9	23.2	19.78	2.172	
4,100.0	4,065.0	4,104.3	4,070.8	12.9	12.6	-156.61		-109.8	-430.9	43.0	22.6	20.39	2.110	
4,200.0	4,164.0	4,204.3	4,169.7	13.3	13.0	-155.84		-113.5	-445.3	43.1	22.1	21.02	2.052	
4,300.0	4,262.9	4,304.3	4,268.6	13.7	13.3	-155.06		-117.2	-459.7	43.2	21.6	21.65	1.997	
4,400.0	4,361.8	4,404.3	4,367.5	14.0	13.7	-154.30		-120.9	-474.1	43.4	21.1	22.29	1.945	
4,500.0	4,460.7	4,504.3	4,466.4	14.4	14.0	-153.53		-124.5	-488.5	43.5	20.5	22.93	1.896	
4,600.0	4,559.6	4,604.3	4,565.3	14.7	14.4	-152.77		-128.2	-502.9	43.6	20.0	23.59	1.849	
4,700.0	4,658.5	4,704.3	4,664.1	15.1	14.8	-152.02		-131.9	-517.3	43.7	19.5	24.24	1.804	
4,800.0	4,757.4	4,804.3	4,763.0	15.5	15.1	-151.27		-135.5	-531.7	43.9	19.0	24.91	1.762	
4,900.0	4,856.4	4,904.3	4,861.9	15.8	15.5	-150.52		-139.2	-546.1	44.0	18.5	25.58	1.721	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	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 #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.0	4,955.3	5,004.3	4,960.8	16.2	15.8	-149.78	-149.78	-142.9	-560.5	44.2	17.9	26.25	1.683	
5,100.0	5,054.2	5,104.3	5,059.7	16.6	16.2	-149.05	-149.05	-146.6	-574.9	44.4	17.4	26.94	1.647	
5,200.0	5,153.1	5,203.2	5,157.7	16.9	16.5	-149.19	-149.19	-149.9	-587.9	45.6	18.1	27.45	1.660	
5,300.0	5,252.0	5,301.7	5,255.7	17.3	16.7	-151.42	-151.42	-152.4	-597.7	49.7	22.1	27.58	1.801	
5,400.0	5,350.9	5,400.0	5,353.7	17.6	16.9	-154.96	-154.96	-154.0	-604.2	56.9	29.4	27.51	2.068	
5,500.0	5,449.8	5,497.2	5,450.9	18.0	17.1	-158.86	-158.86	-154.9	-607.4	67.3	40.0	27.39	2.459	
5,600.0	5,548.8	5,595.1	5,548.8	18.4	17.2	-162.46	-162.46	-155.0	-607.8	80.8	53.5	27.37	2.954	
5,700.0	5,647.8	5,694.1	5,647.8	18.7	17.3	-165.05	-165.05	-155.0	-607.8	94.2	66.7	27.49	3.426	
5,800.0	5,747.2	5,793.6	5,747.2	18.9	17.5	-166.59	-166.59	-155.0	-607.8	104.4	76.7	27.68	3.772	
5,900.0	5,847.0	5,893.3	5,847.0	19.1	17.6	-167.46	-167.46	-155.0	-607.8	111.3	83.4	27.91	3.988	
6,000.0	5,946.9	5,993.2	5,946.9	19.2	17.8	-167.87	-167.87	-155.0	-607.8	114.8	86.7	28.16	4.077	
6,100.0	6,046.9	6,093.2	6,046.9	19.4	17.9	89.98	89.98	-155.0	-607.8	115.3	86.8	28.46	4.052	
6,200.0	6,146.9	6,193.2	6,146.9	19.5	18.1	89.98	89.98	-155.0	-607.8	115.3	86.5	28.82	4.001	
6,300.0	6,246.9	6,293.2	6,246.9	19.7	18.2	89.98	89.98	-155.0	-607.8	115.3	86.1	29.19	3.950	
6,400.0	6,346.9	6,393.2	6,346.9	19.8	18.4	89.98	89.98	-155.0	-607.8	115.3	85.7	29.56	3.900	
6,500.0	6,446.9	6,493.2	6,446.9	19.9	18.6	89.98	89.98	-155.0	-607.8	115.3	85.4	29.94	3.852	
6,600.0	6,546.9	6,593.2	6,546.9	20.1	18.7	89.98	89.98	-155.0	-607.8	115.3	85.0	30.31	3.804	
6,641.5	6,588.4	6,634.8	6,588.4	20.1	18.8	89.96	89.96	-154.9	-607.8	115.3	84.8	30.47	3.785	
6,700.0	6,646.9	6,693.0	6,646.6	20.2	18.9	88.51	88.51	-152.0	-607.8	115.4	84.8	30.56	3.775	
6,800.0	6,746.9	6,793.3	6,742.6	20.4	19.0	80.96	80.96	-136.6	-607.7	116.9	86.4	30.51	3.831	
6,900.0	6,846.7	6,893.2	6,831.5	20.5	19.1	69.79	69.79	-110.0	-607.6	123.2	92.4	30.81	4.001	
7,000.0	6,943.9	6,974.6	6,914.8	20.6	19.1	61.86	61.86	-72.7	-607.5	131.1	99.9	31.18	4.205	
7,100.0	7,035.0	7,065.0	6,992.0	20.7	19.2	57.09	57.09	-25.7	-607.3	137.5	106.5	31.07	4.426	
7,200.0	7,116.6	7,155.0	7,062.3	20.7	19.3	54.96	54.96	30.3	-607.1	140.8	110.4	30.44	4.627	
7,300.0	7,185.8	7,244.8	7,125.0	20.8	19.4	55.22	55.22	94.6	-606.9	140.4	110.7	29.68	4.731	
7,400.0	7,239.9	7,334.8	7,179.2	20.9	19.5	57.89	57.89	166.4	-606.7	136.3	106.9	29.49	4.624	
7,500.0	7,277.0	7,425.4	7,224.2	21.1	19.7	63.30	63.30	245.0	-606.4	129.4	99.0	30.45	4.251	
7,600.0	7,295.8	7,517.0	7,259.3	21.4	20.0	71.99	71.99	329.5	-606.1	121.6	88.8	32.81	3.706	
7,700.0	7,297.8	7,610.6	7,283.7	21.8	20.5	83.04	83.04	419.8	-605.8	116.2	80.2	35.98	3.229	
7,800.0	7,297.3	7,708.8	7,296.5	22.5	21.2	89.57	89.57	517.0	-605.4	115.3	76.8	38.53	2.992	
7,837.3	7,297.2	7,746.0	7,297.8	22.8	21.6	90.32	90.32	554.3	-605.3	115.3	75.9	39.38	2.928	
7,900.0	7,296.9	7,808.7	7,297.6	23.3	22.1	90.35	90.35	617.0	-605.1	115.3	74.5	40.75	2.829	
8,000.0	7,296.4	7,908.7	7,297.1	24.3	23.2	90.34	90.34	717.0	-604.7	115.3	72.2	43.14	2.673	
8,100.0	7,295.9	8,008.7	7,296.6	25.4	24.4	90.33	90.33	817.0	-604.4	115.3	69.6	45.72	2.522	
8,200.0	7,295.5	8,108.7	7,296.1	26.6	25.7	90.32	90.32	917.0	-604.0	115.3	66.8	48.47	2.379	
8,300.0	7,295.0	8,208.7	7,295.6	27.9	27.0	90.31	90.31	1,017.0	-603.7	115.3	63.9	51.35	2.245	
8,400.0	7,294.5	8,308.7	7,295.1	29.3	28.5	90.31	90.31	1,117.0	-603.3	115.3	60.9	54.35	2.121	
8,500.0	7,294.0	8,408.7	7,294.6	30.8	29.9	90.30	90.30	1,217.0	-602.9	115.3	57.8	57.46	2.006	
8,600.0	7,293.6	8,508.7	7,294.2	32.2	31.5	90.29	90.29	1,317.0	-602.6	115.3	54.6	60.64	1.901	
8,700.0	7,293.1	8,608.7	7,293.7	33.8	33.0	90.28	90.28	1,417.0	-602.2	115.3	51.4	63.89	1.804	
8,800.0	7,292.6	8,708.7	7,293.2	35.4	34.6	90.27	90.27	1,517.0	-601.9	115.3	48.1	67.21	1.715	
8,900.0	7,292.2	8,808.7	7,292.7	37.0	36.3	90.26	90.26	1,617.0	-601.5	115.3	44.7	70.58	1.633	
9,000.0	7,291.7	8,908.7	7,292.2	38.6	37.9	90.25	90.25	1,717.0	-601.2	115.3	41.3	73.99	1.558	
9,100.0	7,291.2	9,008.7	7,291.7	40.3	39.6	90.24	90.24	1,817.0	-600.8	115.3	37.8	77.44	1.488 Level 3	
9,200.0	7,290.7	9,108.7	7,291.2	41.9	41.3	90.24	90.24	1,917.0	-600.5	115.3	34.3	80.92	1.424 Level 3	
9,300.0	7,290.3	9,208.7	7,290.7	43.6	43.1	90.23	90.23	2,017.0	-600.1	115.3	30.8	84.44	1.365 Level 3	
9,400.0	7,289.8	9,308.7	7,290.2	45.4	44.8	90.22	90.22	2,117.0	-599.8	115.3	27.3	87.98	1.310 Level 3	
9,500.0	7,289.3	9,408.7	7,289.8	47.1	46.5	90.21	90.21	2,217.0	-599.4	115.3	23.7	91.54	1.259 Level 3	
9,600.0	7,288.9	9,508.7	7,289.3	48.8	48.3	90.20	90.20	2,317.0	-599.1	115.3	20.1	95.12	1.212 Level 2	
9,700.0	7,288.4	9,608.7	7,288.8	50.6	50.1	90.19	90.19	2,416.9	-598.7	115.2	16.5	98.73	1.167 Level 2	
9,800.0	7,287.9	9,708.7	7,288.3	52.4	51.9	90.18	90.18	2,516.9	-598.3	115.2	12.9	102.35	1.126 Level 2	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	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 #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
9,900.0	7,287.5	9,808.7	7,287.8	54.2	53.7	90.18	2,616.9	-598.0	115.2	9.3	105.98	1.087	Level 2	
10,000.0	7,287.0	9,908.7	7,287.3	55.9	55.5	90.17	2,716.9	-597.6	115.2	5.6	109.63	1.051	Level 2	
10,100.0	7,286.5	10,008.7	7,286.8	57.7	57.3	90.16	2,816.9	-597.3	115.2	2.0	113.28	1.017	Level 2	
10,200.0	7,286.0	10,108.7	7,286.3	59.5	59.1	90.15	2,916.9	-596.9	115.2	-1.7	116.95	0.985	Level 1	
10,300.0	7,285.6	10,208.7	7,285.8	61.4	60.9	90.14	3,016.9	-596.6	115.2	-5.4	120.63	0.955	Level 1	
10,400.0	7,285.1	10,308.7	7,285.4	63.2	62.7	90.13	3,116.9	-596.2	115.2	-9.1	124.32	0.927	Level 1	
10,500.0	7,284.6	10,408.7	7,284.9	65.0	64.6	90.12	3,216.9	-595.9	115.2	-12.8	128.02	0.900	Level 1	
10,600.0	7,284.2	10,508.7	7,284.4	66.8	66.4	90.11	3,316.9	-595.5	115.2	-16.5	131.72	0.875	Level 1	
10,700.0	7,283.7	10,608.7	7,283.9	68.7	68.2	90.11	3,416.9	-595.2	115.2	-20.2	135.43	0.851	Level 1	
10,800.0	7,283.2	10,708.7	7,283.4	70.5	70.1	90.10	3,516.9	-594.8	115.2	-23.9	139.15	0.828	Level 1	
10,900.0	7,282.7	10,808.7	7,282.9	72.3	71.9	90.09	3,616.9	-594.5	115.2	-27.6	142.87	0.806	Level 1	
11,000.0	7,282.3	10,908.7	7,282.4	74.2	73.8	90.08	3,716.9	-594.1	115.2	-31.4	146.60	0.786	Level 1	
11,100.0	7,281.8	11,008.7	7,281.9	76.0	75.6	90.07	3,816.9	-593.7	115.2	-35.1	150.33	0.766	Level 1	
11,200.0	7,281.3	11,108.7	7,281.4	77.9	77.5	90.06	3,916.9	-593.4	115.2	-38.9	154.07	0.748	Level 1	
11,300.0	7,280.9	11,208.7	7,281.0	79.7	79.3	90.05	4,016.9	-593.0	115.2	-42.6	157.81	0.730	Level 1	
11,400.0	7,280.4	11,308.7	7,280.5	81.6	81.2	90.04	4,116.9	-592.7	115.2	-46.3	161.56	0.713	Level 1	
11,500.0	7,279.9	11,408.7	7,280.0	83.4	83.1	90.04	4,216.9	-592.3	115.2	-50.1	165.31	0.697	Level 1	
11,600.0	7,279.4	11,508.7	7,279.5	85.3	84.9	90.03	4,316.9	-592.0	115.2	-53.9	169.06	0.681	Level 1	
11,700.0	7,279.0	11,608.7	7,279.0	87.2	86.8	90.02	4,416.9	-591.6	115.2	-57.6	172.82	0.667	Level 1	
11,800.0	7,278.5	11,708.7	7,278.5	89.0	88.7	90.01	4,516.9	-591.3	115.2	-61.4	176.58	0.652	Level 1	
11,900.0	7,278.0	11,808.7	7,278.0	90.9	90.6	90.00	4,616.9	-590.9	115.2	-65.1	180.34	0.639	Level 1	
11,905.5	7,278.0	11,814.2	7,278.0	91.0	90.7	90.00	4,622.4	-590.9	115.2	-65.3	180.55	0.638	Level 1, ES, SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	83.26	3.6	30.8	31.0					
100.0	100.0	100.0	100.0	0.1	0.1	83.26	3.6	30.8	31.0	30.8	0.22	138.035		
200.0	200.0	200.0	200.0	0.3	0.3	83.26	3.6	30.8	31.0	30.4	0.67	46.012		
300.0	300.0	300.0	300.0	0.6	0.6	83.26	3.6	30.8	31.0	29.9	1.12	27.607		
400.0	400.0	400.0	400.0	0.8	0.8	83.26	3.6	30.8	31.0	29.5	1.57	19.719		
500.0	500.0	500.0	500.0	1.0	1.0	83.26	3.6	30.8	31.0	29.0	2.02	15.337		
600.0	600.0	600.0	600.0	1.2	1.2	83.26	3.6	30.8	31.0	28.6	2.47	12.549 CC, ES		
700.0	700.0	700.0	700.0	1.4	1.5	-174.93	3.6	30.8	32.8	29.9	2.91	11.271		
800.0	799.8	799.8	799.8	1.7	1.7	-175.62	3.6	30.8	38.0	34.6	3.33	11.400		
900.0	899.5	899.5	899.5	1.9	1.9	-176.42	3.6	30.8	46.7	42.9	3.76	12.413		
1,000.0	998.7	998.7	998.7	2.1	2.1	-177.15	3.6	30.8	58.8	54.7	4.19	14.040		
1,100.0	1,097.6	1,097.6	1,097.6	2.4	2.4	-177.72	3.6	30.8	73.4	68.8	4.63	15.868		
1,200.0	1,196.5	1,196.5	1,196.5	2.7	2.6	-178.10	3.6	30.8	88.1	83.1	5.07	17.376		
1,300.0	1,295.5	1,298.9	1,298.9	3.0	2.8	-178.24	3.1	29.2	101.2	95.7	5.51	18.380		
1,400.0	1,394.4	1,402.3	1,402.1	3.4	3.0	-178.08	1.4	24.0	110.7	104.8	5.93	18.677		
1,500.0	1,493.3	1,506.2	1,505.6	3.7	3.2	-177.68	-1.5	15.3	116.7	110.3	6.36	18.336		
1,600.0	1,592.2	1,610.4	1,609.0	4.0	3.5	-177.03	-5.7	3.0	119.1	112.3	6.81	17.481		
1,700.0	1,691.1	1,710.8	1,708.3	4.4	3.7	-176.24	-10.3	-10.9	119.4	112.1	7.26	16.434		
1,800.0	1,790.0	1,810.7	1,807.2	4.7	4.0	-175.47	-15.0	-24.8	119.6	111.9	7.72	15.497		
1,900.0	1,888.9	1,910.7	1,906.1	5.1	4.3	-174.70	-19.6	-38.6	120.0	111.8	8.19	14.652		
2,000.0	1,987.9	2,010.7	2,005.0	5.4	4.6	-173.93	-24.3	-52.5	120.3	111.6	8.66	13.893		
2,100.0	2,086.8	2,110.7	2,103.9	5.8	4.9	-173.16	-28.9	-66.3	120.6	111.5	9.14	13.203		
2,200.0	2,185.7	2,210.7	2,202.8	6.1	5.2	-172.41	-33.5	-80.2	121.0	111.4	9.62	12.576		
2,300.0	2,284.6	2,310.7	2,301.8	6.5	5.5	-171.65	-38.2	-94.1	121.4	111.3	10.11	12.005		
2,400.0	2,383.5	2,410.7	2,400.7	6.8	5.8	-170.90	-42.8	-107.9	121.8	111.2	10.61	11.482		
2,500.0	2,482.4	2,510.7	2,499.6	7.2	6.2	-170.16	-47.5	-121.8	122.3	111.2	11.12	11.001		
2,600.0	2,581.3	2,610.6	2,598.5	7.6	6.5	-169.42	-52.1	-135.6	122.7	111.1	11.62	10.559		
2,700.0	2,680.2	2,710.6	2,697.4	7.9	6.8	-168.69	-56.8	-149.5	123.2	111.1	12.14	10.151		
2,800.0	2,779.2	2,810.6	2,796.3	8.3	7.2	-167.96	-61.4	-163.3	123.7	111.1	12.66	9.774		
2,900.0	2,878.1	2,910.6	2,895.2	8.6	7.5	-167.24	-66.0	-177.2	124.2	111.1	13.18	9.423		
3,000.0	2,977.0	3,010.6	2,994.1	9.0	7.9	-166.53	-70.7	-191.1	124.8	111.1	13.72	9.098		
3,100.0	3,075.9	3,110.6	3,093.1	9.3	8.2	-165.82	-75.3	-204.9	125.3	111.1	14.25	8.794		
3,200.0	3,174.8	3,210.6	3,192.0	9.7	8.5	-165.12	-80.0	-218.8	125.9	111.1	14.80	8.511		
3,300.0	3,273.7	3,310.5	3,290.9	10.1	8.9	-164.42	-84.6	-232.6	126.5	111.2	15.34	8.246		
3,400.0	3,372.6	3,410.5	3,389.8	10.4	9.2	-163.73	-89.3	-246.5	127.1	111.2	15.90	7.998		
3,500.0	3,471.6	3,510.5	3,488.7	10.8	9.6	-163.05	-93.9	-260.3	127.8	111.3	16.46	7.764		
3,600.0	3,570.5	3,610.5	3,587.6	11.1	9.9	-162.37	-98.5	-274.2	128.4	111.4	17.02	7.545		
3,700.0	3,669.4	3,710.5	3,686.5	11.5	10.3	-161.71	-103.2	-288.1	129.1	111.5	17.59	7.339		
3,800.0	3,768.3	3,810.5	3,785.5	11.9	10.6	-161.04	-107.8	-301.9	129.8	111.6	18.16	7.145		
3,900.0	3,867.2	3,910.5	3,884.4	12.2	11.0	-160.39	-112.5	-315.8	130.5	111.7	18.74	6.961		
4,000.0	3,966.1	4,010.5	3,983.3	12.6	11.3	-159.74	-117.1	-329.6	131.2	111.9	19.33	6.788		
4,100.0	4,065.0	4,110.4	4,082.2	12.9	11.7	-159.10	-121.8	-343.5	131.9	112.0	19.92	6.623		
4,200.0	4,164.0	4,210.4	4,181.1	13.3	12.0	-158.47	-126.4	-357.4	132.7	112.2	20.52	6.468		
4,300.0	4,262.9	4,310.4	4,280.0	13.7	12.4	-157.84	-131.0	-371.2	133.5	112.3	21.12	6.320		
4,400.0	4,361.8	4,410.4	4,378.9	14.0	12.8	-157.23	-135.7	-385.1	134.2	112.5	21.72	6.180		
4,500.0	4,460.7	4,510.4	4,477.8	14.4	13.1	-156.62	-140.3	-398.9	135.0	112.7	22.33	6.047		
4,600.0	4,559.6	4,610.4	4,576.8	14.7	13.5	-156.01	-145.0	-412.8	135.9	112.9	22.95	5.921		
4,700.0	4,658.5	4,706.6	4,672.1	15.1	13.7	-155.75	-149.0	-424.7	138.0	114.5	23.48	5.878		
4,800.0	4,757.4	4,802.4	4,767.5	15.5	14.0	-156.16	-152.0	-433.6	143.0	119.1	23.90	5.985		
4,900.0	4,856.4	4,897.8	4,862.7	15.8	14.1	-157.14	-153.9	-439.5	151.0	126.7	24.23	6.230		
5,000.0	4,955.3	4,992.6	4,957.4	16.2	14.3	-158.56	-154.9	-442.3	161.9	137.3	24.51	6.604		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	5,054.2	5,089.4	5,054.2	16.6	14.4	-160.22		-155.0	-442.6	175.3	150.6	24.76	7.081	
5,200.0	5,153.1	5,188.3	5,153.1	16.9	14.6	-161.73		-155.0	-442.6	189.2	164.2	25.05	7.556	
5,300.0	5,252.0	5,287.2	5,252.0	17.3	14.8	-163.03		-155.0	-442.6	203.3	177.9	25.36	8.016	
5,400.0	5,350.9	5,386.1	5,350.9	17.6	14.9	-164.16		-155.0	-442.6	217.4	191.7	25.69	8.462	
5,500.0	5,449.8	5,485.0	5,449.8	18.0	15.1	-165.15		-155.0	-442.6	231.6	205.5	26.04	8.893	
5,600.0	5,548.8	5,583.9	5,548.8	18.4	15.2	-166.03		-155.0	-442.6	245.8	219.4	26.40	9.310	
5,700.0	5,647.8	5,683.0	5,647.8	18.7	15.4	-166.81		-155.0	-442.6	259.3	232.5	26.77	9.687	
5,800.0	5,747.2	5,782.4	5,747.2	18.9	15.6	-167.37		-155.0	-442.6	269.6	242.5	27.09	9.951	
5,900.0	5,847.0	5,882.1	5,847.0	19.1	15.7	-167.72		-155.0	-442.6	276.5	249.1	27.41	10.089	
6,000.0	5,946.9	5,982.1	5,946.9	19.2	15.9	-167.89		-155.0	-442.6	280.0	252.3	27.70	10.109	
6,100.0	6,046.9	6,082.1	6,046.9	19.4	16.1	89.99		-155.0	-442.6	280.5	252.5	28.02	10.012	
6,200.0	6,146.9	6,182.1	6,146.9	19.5	16.2	89.99		-155.0	-442.6	280.5	252.1	28.39	9.879	
6,300.0	6,246.9	6,282.1	6,246.9	19.7	16.4	89.99		-155.0	-442.6	280.5	251.7	28.77	9.749	
6,400.0	6,346.9	6,382.1	6,346.9	19.8	16.6	89.99		-155.0	-442.6	280.5	251.4	29.16	9.621	
6,500.0	6,446.9	6,482.1	6,446.9	19.9	16.8	89.99		-155.0	-442.6	280.5	251.0	29.54	9.496	
6,600.0	6,546.9	6,582.1	6,546.9	20.1	17.0	89.99		-155.0	-442.6	280.5	250.6	29.92	9.374	
6,700.0	6,646.9	6,682.1	6,646.9	20.2	17.1	89.99		-155.0	-442.6	280.5	250.2	30.31	9.255	
6,800.0	6,746.9	6,782.1	6,746.9	20.4	17.3	89.99		-155.0	-442.6	280.5	249.8	30.70	9.138	
6,873.2	6,820.0	6,855.2	6,820.1	20.5	17.4	90.31		-153.9	-442.6	280.5	249.5	31.02	9.042	
6,900.0	6,846.7	6,882.0	6,846.7	20.5	17.5	90.13		-152.0	-442.6	280.5	249.4	31.10	9.019	
7,000.0	6,943.9	6,982.3	6,945.6	20.6	17.6	91.53		-135.9	-442.5	280.6	249.1	31.49	8.912	
7,100.0	7,035.0	7,083.4	7,042.1	20.7	17.7	93.95		-105.9	-442.4	281.2	249.3	31.86	8.827	
7,200.0	7,116.6	7,185.9	7,134.6	20.7	17.8	97.27		-62.0	-442.3	282.9	250.7	32.19	8.788	
7,300.0	7,185.8	7,290.4	7,221.4	20.8	17.9	101.37		-4.0	-442.1	286.5	254.0	32.44	8.829	
7,400.0	7,239.9	7,397.5	7,300.8	20.9	18.0	106.05		67.8	-441.8	292.8	260.2	32.62	8.976	
7,500.0	7,277.0	7,508.3	7,370.6	21.1	18.2	111.06		153.7	-441.5	302.7	269.9	32.84	9.217	
7,600.0	7,295.8	7,623.6	7,428.3	21.4	18.5	116.17		253.4	-441.1	316.6	283.2	33.35	9.493	
7,700.0	7,297.8	7,745.9	7,471.2	21.8	19.1	121.69		367.7	-440.7	333.4	299.3	34.09	9.779	
7,800.0	7,297.3	7,879.7	7,495.2	22.5	20.1	125.18		499.2	-440.3	343.7	308.4	35.25	9.749	
7,900.0	7,296.9	7,997.8	7,497.7	23.3	21.3	125.60		617.1	-439.9	345.0	307.8	37.17	9.281	
8,000.0	7,296.4	8,097.8	7,497.3	24.3	22.4	125.61		717.1	-439.5	345.0	305.8	39.20	8.801	
8,100.0	7,295.9	8,197.8	7,496.9	25.4	23.6	125.63		817.1	-439.1	345.1	303.7	41.39	8.338	
8,200.0	7,295.5	8,297.8	7,496.6	26.6	25.0	125.64		917.1	-438.8	345.1	301.4	43.70	7.898	
8,300.0	7,295.0	8,397.8	7,496.2	27.9	26.4	125.66		1,017.1	-438.4	345.2	299.1	46.12	7.485	
8,400.0	7,294.5	8,497.8	7,495.8	29.3	27.8	125.67		1,117.1	-438.1	345.3	296.6	48.63	7.100	
8,500.0	7,294.0	8,597.8	7,495.5	30.8	29.3	125.68		1,217.1	-437.7	345.3	294.1	51.22	6.742	
8,600.0	7,293.6	8,697.8	7,495.1	32.2	30.9	125.70		1,317.1	-437.4	345.4	291.5	53.88	6.410	
8,700.0	7,293.1	8,797.8	7,494.7	33.8	32.5	125.71		1,417.1	-437.0	345.4	288.8	56.60	6.104	
8,800.0	7,292.6	8,897.8	7,494.4	35.4	34.1	125.73		1,517.1	-436.7	345.5	286.1	59.36	5.820	
8,900.0	7,292.2	8,997.8	7,494.0	37.0	35.8	125.74		1,617.1	-436.3	345.6	283.4	62.17	5.558	
9,000.0	7,291.7	9,097.8	7,493.7	38.6	37.5	125.76		1,717.1	-436.0	345.6	280.6	65.02	5.316	
9,100.0	7,291.2	9,197.8	7,493.3	40.3	39.2	125.77		1,817.1	-435.6	345.7	277.8	67.89	5.092	
9,200.0	7,290.7	9,297.8	7,492.9	41.9	40.9	125.78		1,917.1	-435.3	345.7	274.9	70.80	4.884	
9,300.0	7,290.3	9,397.8	7,492.6	43.6	42.6	125.80		2,017.1	-434.9	345.8	272.1	73.73	4.690	
9,400.0	7,289.8	9,497.8	7,492.2	45.4	44.4	125.81		2,117.1	-434.5	345.9	269.2	76.68	4.511	
9,500.0	7,289.3	9,597.8	7,491.8	47.1	46.1	125.83		2,217.1	-434.2	345.9	266.3	79.65	4.343	
9,600.0	7,288.9	9,697.8	7,491.5	48.8	47.9	125.84		2,317.1	-433.8	346.0	263.3	82.64	4.187	
9,700.0	7,288.4	9,797.8	7,491.1	50.6	49.7	125.86		2,417.1	-433.5	346.0	260.4	85.64	4.041	
9,800.0	7,287.9	9,897.8	7,490.7	52.4	51.5	125.87		2,517.1	-433.1	346.1	257.4	88.66	3.904	
9,900.0	7,287.5	9,997.8	7,490.4	54.2	53.3	125.88		2,617.1	-432.8	346.2	254.5	91.69	3.776	
10,000.0	7,287.0	10,097.8	7,490.0	55.9	55.1	125.90		2,717.1	-432.4	346.2	251.5	94.73	3.655	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-5C - Wellbore #1 - Plan #1 (8												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.0	7,286.5	10,197.8	7,489.6	57.7	56.9	125.91	2,817.1	-432.1	346.3	248.5	97.78	3.542	
10,200.0	7,286.0	10,297.8	7,489.3	59.5	58.7	125.93	2,917.1	-431.7	346.3	245.5	100.83	3.435	
10,300.0	7,285.6	10,397.8	7,488.9	61.4	60.6	125.94	3,017.1	-431.4	346.4	242.5	103.90	3.334	
10,400.0	7,285.1	10,497.8	7,488.5	63.2	62.4	125.95	3,117.1	-431.0	346.5	239.5	106.97	3.239	
10,500.0	7,284.6	10,597.8	7,488.2	65.0	64.2	125.97	3,217.1	-430.6	346.5	236.5	110.05	3.149	
10,600.0	7,284.2	10,697.8	7,487.8	66.8	66.1	125.98	3,317.1	-430.3	346.6	233.4	113.14	3.063	
10,700.0	7,283.7	10,797.8	7,487.4	68.7	67.9	126.00	3,417.1	-429.9	346.6	230.4	116.23	2.982	
10,800.0	7,283.2	10,897.8	7,487.1	70.5	69.8	126.01	3,517.1	-429.6	346.7	227.4	119.32	2.906	
10,900.0	7,282.7	10,997.8	7,486.7	72.3	71.6	126.03	3,617.1	-429.2	346.8	224.3	122.42	2.833	
11,000.0	7,282.3	11,097.8	7,486.3	74.2	73.5	126.04	3,717.1	-428.9	346.8	221.3	125.53	2.763	
11,100.0	7,281.8	11,197.8	7,486.0	76.0	75.4	126.05	3,817.1	-428.5	346.9	218.3	128.64	2.697	
11,200.0	7,281.3	11,297.8	7,485.6	77.9	77.2	126.07	3,917.1	-428.2	346.9	215.2	131.75	2.633	
11,300.0	7,280.9	11,397.8	7,485.2	79.7	79.1	126.08	4,017.1	-427.8	347.0	212.1	134.86	2.573	
11,400.0	7,280.4	11,497.8	7,484.9	81.6	81.0	126.10	4,117.1	-427.5	347.1	209.1	137.98	2.515	
11,500.0	7,279.9	11,597.8	7,484.5	83.4	82.8	126.11	4,217.1	-427.1	347.1	206.0	141.10	2.460	
11,600.0	7,279.4	11,697.8	7,484.1	85.3	84.7	126.12	4,317.1	-426.7	347.2	203.0	144.22	2.407	
11,700.0	7,279.0	11,797.8	7,483.8	87.2	86.6	126.14	4,417.1	-426.4	347.2	199.9	147.34	2.357	
11,800.0	7,278.5	11,897.8	7,483.4	89.0	88.4	126.15	4,517.1	-426.0	347.3	196.8	150.47	2.308	
11,900.0	7,278.0	11,997.8	7,483.0	90.9	90.3	126.17	4,617.1	-425.7	347.4	193.8	153.59	2.262	
11,905.5	7,278.0	12,003.3	7,483.0	91.0	90.4	126.17	4,622.6	-425.7	347.4	193.6	153.77	2.259 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	85.35	3.6	44.8	45.0					
100.0	100.0	100.0	100.0	0.1	0.1	85.35	3.6	44.8	45.0	44.7	0.22	200.047		
200.0	200.0	200.0	200.0	0.3	0.3	85.35	3.6	44.8	45.0	44.3	0.67	66.682		
300.0	300.0	300.0	300.0	0.6	0.6	85.35	3.6	44.8	45.0	43.8	1.12	40.009		
400.0	400.0	400.0	400.0	0.8	0.8	85.35	3.6	44.8	45.0	43.4	1.57	28.578		
500.0	500.0	500.0	500.0	1.0	1.0	85.35	3.6	44.8	45.0	42.9	2.02	22.227		
600.0	600.0	600.0	600.0	1.2	1.2	85.35	3.6	44.8	45.0	42.5	2.47	18.186 CC, ES		
700.0	700.0	700.0	700.0	1.4	1.5	-172.82	3.6	44.8	46.7	43.8	2.91	16.063		
800.0	799.8	799.8	799.8	1.7	1.7	-173.53	3.6	44.8	51.9	48.6	3.33	15.576		
900.0	899.5	899.5	899.5	1.9	1.9	-174.44	3.6	44.8	60.6	56.8	3.76	16.105		
1,000.0	998.7	998.7	998.7	2.1	2.1	-175.35	3.6	44.8	72.7	68.5	4.19	17.345		
1,100.0	1,097.6	1,097.6	1,097.6	2.4	2.4	-176.13	3.6	44.8	87.3	82.6	4.63	18.855		
1,200.0	1,196.5	1,196.5	1,196.5	2.7	2.6	-176.68	3.6	44.8	101.9	96.9	5.07	20.097		
1,300.0	1,295.5	1,295.5	1,295.5	3.0	2.8	-177.10	3.6	44.8	116.6	111.1	5.52	21.125		
1,400.0	1,394.4	1,394.4	1,394.4	3.4	3.0	-177.43	3.6	44.8	131.3	125.3	5.97	21.988		
1,500.0	1,493.3	1,498.0	1,498.0	3.7	3.2	-177.51	2.9	43.3	144.5	138.0	6.41	22.526		
1,600.0	1,592.2	1,602.8	1,602.6	4.0	3.4	-177.17	0.5	38.4	154.1	147.3	6.84	22.537		
1,700.0	1,691.1	1,708.1	1,707.5	4.4	3.7	-176.47	-3.7	30.0	160.4	153.1	7.28	22.030		
1,800.0	1,790.0	1,811.6	1,810.3	4.7	3.9	-175.44	-9.3	18.5	163.3	155.6	7.73	21.136		
1,900.0	1,888.9	1,911.6	1,909.3	5.1	4.1	-174.40	-15.1	6.8	165.6	157.5	8.18	20.249		
2,000.0	1,987.9	2,011.5	2,008.4	5.4	4.4	-173.39	-20.8	-4.9	168.0	159.4	8.64	19.440		
2,100.0	2,086.8	2,111.4	2,107.5	5.8	4.6	-172.40	-26.6	-16.6	170.4	161.3	9.11	18.701		
2,200.0	2,185.7	2,211.4	2,206.5	6.1	4.9	-171.44	-32.4	-28.3	172.9	163.3	9.59	18.025		
2,300.0	2,284.6	2,311.3	2,305.6	6.5	5.2	-170.51	-38.1	-40.0	175.4	165.3	10.08	17.404		
2,400.0	2,383.5	2,411.2	2,404.7	6.8	5.5	-169.61	-43.9	-51.8	178.0	167.4	10.57	16.832		
2,500.0	2,482.4	2,511.1	2,503.8	7.2	5.8	-168.73	-49.7	-63.5	180.6	169.5	11.08	16.304		
2,600.0	2,581.3	2,611.1	2,602.8	7.6	6.1	-167.88	-55.4	-75.2	183.2	171.6	11.58	15.816		
2,700.0	2,680.2	2,711.0	2,701.9	7.9	6.4	-167.05	-61.2	-86.9	185.9	173.8	12.10	15.364		
2,800.0	2,779.2	2,810.9	2,801.0	8.3	6.7	-166.25	-67.0	-98.6	188.6	176.0	12.62	14.944		
2,900.0	2,878.1	2,910.9	2,900.0	8.6	7.0	-165.47	-72.7	-110.3	191.4	178.2	13.15	14.554		
3,000.0	2,977.0	3,010.8	2,999.1	9.0	7.3	-164.71	-78.5	-122.0	194.2	180.5	13.68	14.190		
3,100.0	3,075.9	3,110.7	3,098.2	9.3	7.6	-163.97	-84.3	-133.8	197.0	182.8	14.22	13.850		
3,200.0	3,174.8	3,210.6	3,197.3	9.7	7.9	-163.25	-90.1	-145.5	199.8	185.1	14.77	13.532		
3,300.0	3,273.7	3,310.6	3,296.3	10.1	8.3	-162.56	-95.8	-157.2	202.7	187.4	15.32	13.234		
3,400.0	3,372.6	3,410.5	3,395.4	10.4	8.6	-161.88	-101.6	-168.9	205.6	189.8	15.87	12.955		
3,500.0	3,471.6	3,510.4	3,494.5	10.8	8.9	-161.22	-107.4	-180.6	208.6	192.1	16.43	12.692		
3,600.0	3,570.5	3,610.4	3,593.5	11.1	9.2	-160.58	-113.1	-192.3	211.5	194.6	17.00	12.445		
3,700.0	3,669.4	3,710.3	3,692.6	11.5	9.5	-159.96	-118.9	-204.0	214.5	197.0	17.57	12.212		
3,800.0	3,768.3	3,810.2	3,791.7	11.9	9.9	-159.36	-124.7	-215.8	217.6	199.4	18.14	11.993		
3,900.0	3,867.2	3,910.1	3,890.8	12.2	10.2	-158.77	-130.4	-227.5	220.6	201.9	18.72	11.786		
4,000.0	3,966.1	4,010.1	3,989.8	12.6	10.5	-158.20	-136.2	-239.2	223.7	204.4	19.30	11.590		
4,100.0	4,065.0	4,110.0	4,088.9	12.9	10.9	-157.64	-142.0	-250.9	226.8	206.9	19.88	11.404		
4,200.0	4,164.0	4,206.1	4,184.3	13.3	11.1	-157.21	-147.2	-261.6	230.4	210.0	20.43	11.276		
4,300.0	4,262.9	4,300.0	4,277.7	13.7	11.3	-157.22	-151.1	-269.5	236.5	215.6	20.89	11.317		
4,400.0	4,361.8	4,393.1	4,370.7	14.0	11.5	-157.67	-153.7	-274.7	245.1	223.8	21.31	11.506		
4,500.0	4,460.7	4,485.9	4,463.4	14.4	11.7	-158.48	-154.9	-277.1	256.5	234.8	21.67	11.833		
4,600.0	4,559.6	4,582.1	4,559.6	14.7	11.9	-159.56	-155.0	-277.3	270.0	248.0	22.02	12.260		
4,700.0	4,658.5	4,681.0	4,658.5	15.1	12.0	-160.59	-155.0	-277.3	283.8	261.5	22.38	12.681		
4,800.0	4,757.4	4,779.9	4,757.4	15.5	12.2	-161.53	-155.0	-277.3	297.8	275.0	22.75	13.086		
4,900.0	4,856.4	4,878.8	4,856.4	15.8	12.4	-162.39	-155.0	-277.3	311.8	288.6	23.13	13.477		
5,000.0	4,955.3	4,977.8	4,955.3	16.2	12.5	-163.17	-155.0	-277.3	325.8	302.3	23.52	13.853		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	5,054.2	5,076.7	5,054.2	16.6	12.7	-163.89		-155.0	-277.3	339.9	316.0	23.91	14.215	
5,200.0	5,153.1	5,175.6	5,153.1	16.9	12.9	-164.55		-155.0	-277.3	354.1	329.8	24.31	14.564	
5,300.0	5,252.0	5,274.5	5,252.0	17.3	13.1	-165.15		-155.0	-277.3	368.3	343.6	24.71	14.901	
5,400.0	5,350.9	5,373.4	5,350.9	17.6	13.3	-165.72		-155.0	-277.3	382.5	357.4	25.12	15.225	
5,500.0	5,449.8	5,472.3	5,449.8	18.0	13.4	-166.24		-155.0	-277.3	396.8	371.2	25.54	15.538	
5,600.0	5,548.8	5,571.2	5,548.8	18.4	13.6	-166.73		-155.0	-277.3	411.1	385.1	25.95	15.840	
5,700.0	5,647.8	5,670.3	5,647.8	18.7	13.8	-167.20		-155.0	-277.3	424.6	398.2	26.37	16.104	
5,800.0	5,747.2	5,769.7	5,747.2	18.9	14.0	-167.55		-155.0	-277.3	434.9	408.2	26.73	16.269	
5,900.0	5,847.0	5,869.4	5,847.0	19.1	14.2	-167.78		-155.0	-277.3	441.8	414.7	27.08	16.317	
6,000.0	5,946.9	5,969.4	5,946.9	19.2	14.4	-167.89		-155.0	-277.3	445.3	417.9	27.40	16.255	
6,100.0	6,046.9	6,069.4	6,046.9	19.4	14.6	89.99		-155.0	-277.3	445.8	418.1	27.73	16.078	
6,200.0	6,146.9	6,169.4	6,146.9	19.5	14.7	89.99		-155.0	-277.3	445.8	417.7	28.11	15.858	
6,300.0	6,246.9	6,269.4	6,246.9	19.7	14.9	89.99		-155.0	-277.3	445.8	417.3	28.50	15.643	
6,400.0	6,346.9	6,369.4	6,346.9	19.8	15.1	89.99		-155.0	-277.3	445.8	416.9	28.89	15.432	
6,500.0	6,446.9	6,469.4	6,446.9	19.9	15.3	89.99		-155.0	-277.3	445.8	416.5	29.28	15.227	
6,600.0	6,546.9	6,569.4	6,546.9	20.1	15.5	89.99		-155.0	-277.3	445.8	416.1	29.67	15.026	
6,634.7	6,581.6	6,604.1	6,581.6	20.1	15.6	89.99		-155.0	-277.3	445.8	416.0	29.81	14.957	
6,700.0	6,646.9	6,669.0	6,646.5	20.2	15.7	89.62		-152.0	-277.3	445.8	415.8	30.03	14.848	
6,800.0	6,746.9	6,766.2	6,742.3	20.4	15.9	87.65		-136.7	-277.2	446.3	416.0	30.25	14.751	
6,900.0	6,846.7	6,859.0	6,831.1	20.5	16.0	84.42		-110.1	-277.1	448.0	417.6	30.40	14.738	
7,000.0	6,943.9	6,950.0	6,914.2	20.6	16.1	82.00		-73.1	-277.0	450.3	419.8	30.53	14.752	
7,100.0	7,035.0	7,040.6	6,991.6	20.7	16.2	80.38		-26.1	-276.8	452.2	421.5	30.68	14.739	
7,200.0	7,116.6	7,130.4	7,061.8	20.7	16.2	79.61		29.8	-276.6	453.2	422.3	30.91	14.661	
7,300.0	7,185.8	7,220.1	7,124.5	20.8	16.4	79.72		94.0	-276.4	453.1	421.8	31.30	14.476	
7,400.0	7,239.9	7,310.1	7,178.7	20.9	16.5	80.70		165.7	-276.2	451.8	419.9	31.94	14.143	
7,500.0	7,277.0	7,400.0	7,223.5	21.1	16.9	82.52		243.6	-275.9	449.7	416.8	32.93	13.659	
7,600.0	7,295.8	7,492.1	7,259.0	21.4	17.4	85.15		328.5	-275.6	447.5	413.2	34.31	13.043	
7,700.0	7,297.8	7,585.7	7,283.5	21.8	18.1	88.17		418.7	-275.3	446.0	410.0	36.07	12.365	
7,800.0	7,297.3	7,683.8	7,296.4	22.5	19.1	89.88		515.9	-274.9	445.8	407.7	38.08	11.707	
7,900.0	7,296.9	7,783.7	7,297.6	23.3	20.2	90.09		615.8	-274.6	445.8	405.5	40.27	11.069	
8,000.0	7,296.4	7,883.7	7,297.1	24.3	21.4	90.09		715.8	-274.2	445.8	403.1	42.68	10.444	
8,100.0	7,295.9	7,983.7	7,296.6	25.4	22.7	90.09		815.8	-273.9	445.8	400.5	45.29	9.844	
8,200.0	7,295.5	8,083.7	7,296.1	26.6	24.1	90.09		915.8	-273.5	445.8	397.7	48.05	9.277	
8,300.0	7,295.0	8,183.7	7,295.6	27.9	25.5	90.08		1,015.8	-273.2	445.8	394.8	50.96	8.748	
8,400.0	7,294.5	8,283.7	7,295.2	29.3	27.0	90.08		1,115.8	-272.8	445.8	391.8	53.98	8.258	
8,500.0	7,294.0	8,383.7	7,294.7	30.8	28.6	90.08		1,215.8	-272.5	445.8	388.7	57.10	7.807	
8,600.0	7,293.6	8,483.7	7,294.2	32.2	30.2	90.08		1,315.8	-272.1	445.8	385.5	60.30	7.393	
8,700.0	7,293.1	8,583.7	7,293.7	33.8	31.8	90.08		1,415.8	-271.7	445.8	382.2	63.57	7.013	
8,800.0	7,292.6	8,683.7	7,293.2	35.4	33.5	90.07		1,515.8	-271.4	445.8	378.9	66.89	6.664	
8,900.0	7,292.2	8,783.7	7,292.7	37.0	35.1	90.07		1,615.8	-271.0	445.8	375.5	70.27	6.343	
9,000.0	7,291.7	8,883.7	7,292.2	38.6	36.9	90.07		1,715.8	-270.7	445.7	372.1	73.70	6.048	
9,100.0	7,291.2	8,983.7	7,291.7	40.3	38.6	90.07		1,815.8	-270.3	445.7	368.6	77.16	5.777	
9,200.0	7,290.7	9,083.7	7,291.2	41.9	40.3	90.06		1,915.8	-270.0	445.7	365.1	80.65	5.527	
9,300.0	7,290.3	9,183.7	7,290.8	43.6	42.1	90.06		2,015.8	-269.6	445.7	361.6	84.18	5.295	
9,400.0	7,289.8	9,283.7	7,290.3	45.4	43.9	90.06		2,115.8	-269.3	445.7	358.0	87.73	5.081	
9,500.0	7,289.3	9,383.7	7,289.8	47.1	45.6	90.06		2,215.8	-268.9	445.7	354.4	91.30	4.882	
9,600.0	7,288.9	9,483.7	7,289.3	48.8	47.4	90.06		2,315.8	-268.6	445.7	350.8	94.89	4.697	
9,700.0	7,288.4	9,583.7	7,288.8	50.6	49.2	90.05		2,415.8	-268.2	445.7	347.2	98.50	4.525	
9,800.0	7,287.9	9,683.7	7,288.3	52.4	51.0	90.05		2,515.8	-267.9	445.7	343.6	102.12	4.365	
9,900.0	7,287.5	9,783.7	7,287.8	54.2	52.9	90.05		2,615.8	-267.5	445.7	340.0	105.76	4.214	
10,000.0	7,287.0	9,883.7	7,287.3	55.9	54.7	90.05		2,715.8	-267.2	445.7	336.3	109.42	4.074	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	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		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor
10,100.0	7,286.5	9,983.7	7,286.8	57.7	56.5	90.04	2,815.8	-266.8	445.7	332.6	113.08	3.942	
10,200.0	7,286.0	10,083.7	7,286.4	59.5	58.4	90.04	2,915.8	-266.5	445.7	329.0	116.75	3.817	
10,300.0	7,285.6	10,183.7	7,285.9	61.4	60.2	90.04	3,015.8	-266.1	445.7	325.3	120.44	3.701	
10,400.0	7,285.1	10,283.7	7,285.4	63.2	62.0	90.04	3,115.8	-265.8	445.7	321.6	124.13	3.591	
10,500.0	7,284.6	10,383.7	7,284.9	65.0	63.9	90.03	3,215.8	-265.4	445.7	317.9	127.83	3.487	
10,600.0	7,284.2	10,483.7	7,284.4	66.8	65.7	90.03	3,315.8	-265.1	445.7	314.2	131.54	3.388	
10,700.0	7,283.7	10,583.7	7,283.9	68.7	67.6	90.03	3,415.8	-264.7	445.7	310.4	135.25	3.295	
10,800.0	7,283.2	10,683.7	7,283.4	70.5	69.5	90.03	3,515.8	-264.3	445.7	306.7	138.98	3.207	
10,900.0	7,282.7	10,783.7	7,282.9	72.3	71.3	90.03	3,615.8	-264.0	445.7	303.0	142.70	3.123	
11,000.0	7,282.3	10,883.7	7,282.5	74.2	73.2	90.02	3,715.8	-263.6	445.7	299.2	146.43	3.044	
11,100.0	7,281.8	10,983.7	7,282.0	76.0	75.1	90.02	3,815.8	-263.3	445.7	295.5	150.17	2.968	
11,200.0	7,281.3	11,083.7	7,281.5	77.9	76.9	90.02	3,915.8	-262.9	445.7	291.8	153.91	2.896	
11,300.0	7,280.9	11,183.7	7,281.0	79.7	78.8	90.02	4,015.8	-262.6	445.7	288.0	157.66	2.827	
11,400.0	7,280.4	11,283.7	7,280.5	81.6	80.7	90.01	4,115.8	-262.2	445.7	284.3	161.41	2.761	
11,500.0	7,279.9	11,383.7	7,280.0	83.4	82.5	90.01	4,215.8	-261.9	445.7	280.5	165.16	2.698	
11,600.0	7,279.4	11,483.7	7,279.5	85.3	84.4	90.01	4,315.8	-261.5	445.7	276.7	168.92	2.638	
11,700.0	7,279.0	11,583.7	7,279.0	87.2	86.3	90.01	4,415.8	-261.2	445.7	273.0	172.68	2.581	
11,800.0	7,278.5	11,683.7	7,278.5	89.0	88.2	90.01	4,515.7	-260.8	445.7	269.2	176.44	2.526	
11,900.0	7,278.0	11,783.7	7,278.1	90.9	90.1	90.00	4,615.7	-260.5	445.6	265.4	180.20	2.473	
11,905.5	7,278.0	11,789.2	7,278.0	91.0	90.2	90.00	4,621.3	-260.5	445.6	265.2	180.41	2.470 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	86.46		3.6	58.8	58.9				
100.0	100.0	99.0	99.0	0.1	0.1	86.46		3.6	58.8	58.9	58.7	0.22	263.514	
200.0	200.0	199.0	199.0	0.3	0.3	86.46		3.6	58.8	58.9	58.3	0.67	87.692	
300.0	300.0	299.0	299.0	0.6	0.6	86.46		3.6	58.8	58.9	57.8	1.12	52.545	
400.0	400.0	399.0	399.0	0.8	0.8	86.46		3.6	58.8	58.9	57.4	1.57	37.511	
500.0	500.0	499.0	499.0	1.0	1.0	86.46		3.6	58.8	58.9	56.9	2.02	29.166	
600.0	600.0	599.0	599.0	1.2	1.2	86.46		3.6	58.8	58.9	56.5	2.47	23.858 CC, ES	
700.0	700.0	699.0	699.0	1.4	1.5	-171.68		3.6	58.8	60.7	57.8	2.90	20.884	
800.0	799.8	798.8	798.8	1.7	1.7	-172.33		3.6	58.8	65.8	62.5	3.33	19.777	
900.0	899.5	898.5	898.5	1.9	1.9	-173.20		3.6	58.8	74.5	70.7	3.76	19.821	
1,000.0	998.7	997.7	997.7	2.1	2.1	-174.13		3.6	58.8	86.6	82.4	4.19	20.672	
1,100.0	1,097.6	1,096.6	1,096.6	2.4	2.4	-174.97		3.6	58.8	101.1	96.5	4.63	21.861	
1,200.0	1,196.5	1,195.5	1,195.5	2.7	2.6	-175.61		3.6	58.8	115.8	110.7	5.07	22.836	
1,300.0	1,295.5	1,294.5	1,294.5	3.0	2.8	-176.10		3.6	58.8	130.5	124.9	5.52	23.638	
1,400.0	1,394.4	1,393.4	1,393.4	3.4	3.0	-176.50		3.6	58.8	145.1	139.2	5.97	24.308	
1,500.0	1,493.3	1,492.3	1,492.3	3.7	3.2	-176.82		3.6	58.8	159.8	153.4	6.42	24.875	
1,600.0	1,592.2	1,591.2	1,591.2	4.0	3.5	-177.09		3.6	58.8	174.5	167.6	6.88	25.360	
1,700.0	1,691.1	1,690.0	1,690.0	4.4	3.7	-177.13		2.9	58.0	188.2	180.9	7.32	25.707	
1,800.0	1,790.0	1,789.7	1,789.7	4.7	3.9	-176.72		0.2	55.0	199.7	192.0	7.75	25.789	
1,900.0	1,888.9	1,901.9	1,901.6	5.1	4.1	-175.93		-4.4	50.0	209.0	200.9	8.18	25.559	
2,000.0	1,987.9	2,006.3	2,005.6	5.4	4.3	-174.77		-10.9	42.9	216.1	207.5	8.62	25.061	
2,100.0	2,086.8	2,108.6	2,107.1	5.8	4.5	-173.33		-19.0	34.1	221.3	212.3	9.08	24.375	
2,200.0	2,185.7	2,208.3	2,206.1	6.1	4.7	-171.93		-27.1	25.2	226.4	216.9	9.55	23.715	
2,300.0	2,284.6	2,308.0	2,305.1	6.5	5.0	-170.59		-35.2	16.3	231.6	221.6	10.02	23.101	
2,400.0	2,383.5	2,407.8	2,404.1	6.8	5.2	-169.31		-43.3	7.5	236.9	226.4	10.51	22.531	
2,500.0	2,482.4	2,507.5	2,503.1	7.2	5.5	-168.09		-51.4	-1.4	242.3	231.3	11.01	21.999	
2,600.0	2,581.3	2,607.2	2,602.1	7.6	5.7	-166.92		-59.5	-10.3	247.8	236.3	11.52	21.504	
2,700.0	2,680.2	2,706.9	2,701.1	7.9	6.0	-165.81		-67.6	-19.2	253.5	241.4	12.05	21.042	
2,800.0	2,779.2	2,806.6	2,800.1	8.3	6.3	-164.74		-75.7	-28.0	259.2	246.6	12.57	20.610	
2,900.0	2,878.1	2,906.4	2,899.1	8.6	6.6	-163.72		-83.8	-36.9	265.0	251.9	13.11	20.207	
3,000.0	2,977.0	3,006.1	2,998.1	9.0	6.8	-162.74		-91.9	-45.8	270.8	257.2	13.66	19.830	
3,100.0	3,075.9	3,105.8	3,097.1	9.3	7.1	-161.80		-100.0	-54.7	276.8	262.6	14.21	19.477	
3,200.0	3,174.8	3,205.5	3,196.1	9.7	7.4	-160.90		-108.1	-63.5	282.8	268.1	14.77	19.147	
3,300.0	3,273.7	3,305.3	3,295.1	10.1	7.7	-160.04		-116.2	-72.4	288.9	273.6	15.34	18.837	
3,400.0	3,372.6	3,405.0	3,394.1	10.4	8.0	-159.22		-124.3	-81.3	295.1	279.2	15.91	18.546	
3,500.0	3,471.6	3,504.7	3,493.1	10.8	8.3	-158.43		-132.4	-90.1	301.3	284.8	16.49	18.273	
3,600.0	3,570.5	3,600.0	3,587.7	11.1	8.6	-157.75		-139.9	-98.4	307.8	290.7	17.04	18.059	
3,700.0	3,669.4	3,696.9	3,684.2	11.5	8.8	-157.40		-146.1	-105.2	315.6	298.1	17.55	17.985	
3,800.0	3,768.3	3,791.7	3,778.7	11.9	9.0	-157.41		-150.6	-110.1	325.0	307.0	18.02	18.033	
3,900.0	3,867.2	3,886.1	3,873.0	12.2	9.2	-157.74		-153.5	-113.3	335.8	317.4	18.46	18.189	
4,000.0	3,966.1	3,980.1	3,967.0	12.6	9.4	-158.35		-154.9	-114.8	348.2	329.3	18.87	18.448	
4,100.0	4,065.0	4,077.1	4,064.0	12.9	9.6	-159.17		-155.0	-114.9	361.8	342.6	19.27	18.772	
4,200.0	4,164.0	4,176.1	4,163.0	13.3	9.8	-159.97		-155.0	-114.9	375.6	355.9	19.68	19.086	
4,300.0	4,262.9	4,275.0	4,261.9	13.7	9.9	-160.71		-155.0	-114.9	389.5	369.4	20.09	19.386	
4,400.0	4,361.8	4,373.9	4,360.8	14.0	10.1	-161.40		-155.0	-114.9	403.4	382.9	20.50	19.673	
4,500.0	4,460.7	4,472.8	4,459.7	14.4	10.3	-162.04		-155.0	-114.9	417.4	396.4	20.92	19.949	
4,600.0	4,559.6	4,571.7	4,558.6	14.7	10.5	-162.64		-155.0	-114.9	431.4	410.0	21.34	20.213	
4,700.0	4,658.5	4,670.6	4,657.5	15.1	10.7	-163.20		-155.0	-114.9	445.5	423.7	21.76	20.467	
4,800.0	4,757.4	4,769.5	4,756.4	15.5	10.9	-163.73		-155.0	-114.9	459.6	437.4	22.19	20.710	
4,900.0	4,856.4	4,868.5	4,855.4	15.8	11.1	-164.23		-155.0	-114.9	473.7	451.1	22.62	20.944	
5,000.0	4,955.3	4,967.4	4,954.3	16.2	11.3	-164.70		-155.0	-114.9	487.9	464.8	23.05	21.168	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	5,054.2	5,066.3	5,053.2	16.6	11.5	-165.14		-155.0	-114.9	502.1	478.6	23.48	21.384	
5,200.0	5,153.1	5,165.2	5,152.1	16.9	11.7	-165.56		-155.0	-114.9	516.3	492.4	23.91	21.591	
5,300.0	5,252.0	5,264.1	5,251.0	17.3	11.9	-165.95		-155.0	-114.9	530.6	506.2	24.35	21.791	
5,400.0	5,350.9	5,363.0	5,349.9	17.6	12.1	-166.33		-155.0	-114.9	544.8	520.1	24.79	21.982	
5,500.0	5,449.8	5,461.9	5,448.8	18.0	12.3	-166.69		-155.0	-114.9	559.1	533.9	25.22	22.167	
5,600.0	5,548.8	5,560.8	5,547.8	18.4	12.5	-167.02		-155.0	-114.9	573.5	547.8	25.66	22.345	
5,700.0	5,647.8	5,659.9	5,646.8	18.7	12.7	-167.37		-155.0	-114.9	587.0	560.9	26.11	22.485	
5,800.0	5,747.2	5,759.3	5,746.2	18.9	12.9	-167.63		-155.0	-114.9	597.3	570.8	26.50	22.540	
5,900.0	5,847.0	5,859.1	5,846.0	19.1	13.1	-167.81		-155.0	-114.9	604.2	577.4	26.87	22.490	
6,000.0	5,946.9	5,959.0	5,945.9	19.2	13.3	-167.89		-155.0	-114.9	607.7	580.5	27.21	22.338	
6,100.0	6,046.9	6,059.0	6,045.9	19.4	13.5	90.00		-155.0	-114.9	608.2	580.7	27.55	22.075	
6,200.0	6,146.9	6,159.0	6,145.9	19.5	13.7	90.00		-155.0	-114.9	608.2	580.3	27.94	21.766	
6,300.0	6,246.9	6,259.0	6,245.9	19.7	13.9	90.00		-155.0	-114.9	608.2	579.9	28.34	21.464	
6,400.0	6,346.9	6,359.0	6,345.9	19.8	14.1	90.00		-155.0	-114.9	608.2	579.5	28.73	21.169	
6,500.0	6,446.9	6,459.0	6,445.9	19.9	14.3	90.00		-155.0	-114.9	608.2	579.1	29.13	20.881	
6,600.0	6,546.9	6,559.0	6,545.9	20.1	14.6	90.00		-155.0	-114.9	608.2	578.7	29.53	20.600	
6,631.1	6,578.0	6,590.1	6,577.0	20.1	14.6	90.00		-155.0	-114.9	608.2	578.6	29.65	20.514	
6,700.0	6,646.9	6,658.6	6,645.4	20.2	14.8	89.72		-152.0	-114.9	608.2	578.3	29.90	20.345	
6,800.0	6,746.9	6,755.6	6,741.1	20.4	14.9	88.28		-136.8	-114.8	608.6	578.4	30.17	20.173	
6,900.0	6,846.7	6,848.3	6,829.9	20.5	15.0	85.86		-110.2	-114.7	609.9	579.6	30.36	20.086	
7,000.0	6,943.9	6,939.4	6,913.1	20.6	15.2	84.07		-73.2	-114.5	611.6	581.1	30.52	20.038	
7,100.0	7,035.0	7,029.7	6,990.2	20.7	15.3	82.87		-26.3	-114.3	613.1	582.4	30.70	19.967	
7,200.0	7,116.6	7,119.5	7,060.4	20.7	15.4	82.31		29.5	-114.1	613.8	582.9	30.96	19.824	
7,300.0	7,185.8	7,209.1	7,123.1	20.8	15.5	82.40		93.5	-113.9	613.8	582.4	31.38	19.559	
7,400.0	7,239.9	7,300.0	7,177.9	20.9	15.8	83.14		165.9	-113.6	612.8	580.8	32.04	19.126	
7,500.0	7,277.0	7,389.5	7,222.5	21.1	16.3	84.48		243.4	-113.2	611.4	578.3	33.01	18.519	
7,600.0	7,295.8	7,480.9	7,257.7	21.4	16.9	86.42		327.7	-112.9	609.7	575.4	34.34	17.756	
7,700.0	7,297.8	7,574.4	7,282.4	21.8	17.7	88.64		417.8	-112.5	608.7	572.7	36.03	16.897	
7,774.3	7,297.5	7,646.9	7,293.3	22.3	18.4	89.70		489.5	-112.2	608.6	571.1	37.48	16.239	
7,800.0	7,297.3	7,672.4	7,295.4	22.5	18.7	89.91		514.9	-112.1	608.6	570.6	38.00	16.017	
7,900.0	7,296.9	7,772.4	7,296.6	23.3	19.8	90.07		614.9	-111.7	608.6	568.5	40.19	15.144	
8,000.0	7,296.4	7,872.4	7,296.1	24.3	21.0	90.07		714.9	-111.3	608.7	566.1	42.61	14.287	
8,100.0	7,295.9	7,972.4	7,295.6	25.4	22.3	90.07		814.9	-110.9	608.8	563.5	45.21	13.464	
8,200.0	7,295.5	8,072.4	7,295.1	26.6	23.7	90.06		914.9	-110.5	608.8	560.8	47.98	12.688	
8,300.0	7,295.0	8,172.4	7,294.6	27.9	25.2	90.06		1,014.9	-110.1	608.9	558.0	50.89	11.964	
8,400.0	7,294.5	8,272.4	7,294.2	29.3	26.7	90.06		1,114.9	-109.7	608.9	555.0	53.92	11.294	
8,500.0	7,294.0	8,372.4	7,293.7	30.8	28.3	90.06		1,214.9	-109.2	609.0	551.9	57.04	10.677	
8,600.0	7,293.6	8,472.4	7,293.2	32.2	29.9	90.06		1,314.9	-108.8	609.0	548.8	60.24	10.110	
8,700.0	7,293.1	8,572.4	7,292.7	33.8	31.5	90.06		1,414.9	-108.4	609.1	545.6	63.51	9.591	
8,800.0	7,292.6	8,672.4	7,292.2	35.4	33.2	90.05		1,514.9	-108.0	609.1	542.3	66.84	9.113	
8,900.0	7,292.2	8,772.4	7,291.7	37.0	34.9	90.05		1,614.9	-107.6	609.2	539.0	70.22	8.675	
9,000.0	7,291.7	8,872.4	7,291.2	38.6	36.6	90.05		1,714.9	-107.2	609.3	535.6	73.65	8.273	
9,100.0	7,291.2	8,972.4	7,290.7	40.3	38.3	90.05		1,814.9	-106.8	609.3	532.2	77.11	7.902	
9,200.0	7,290.7	9,072.4	7,290.3	41.9	40.1	90.05		1,914.9	-106.4	609.4	528.8	80.61	7.560	
9,300.0	7,290.3	9,172.4	7,289.8	43.6	41.9	90.05		2,014.9	-106.0	609.4	525.3	84.13	7.244	
9,400.0	7,289.8	9,272.4	7,289.3	45.4	43.6	90.04		2,114.9	-105.5	609.5	521.8	87.68	6.951	
9,500.0	7,289.3	9,372.4	7,288.8	47.1	45.4	90.04		2,214.9	-105.1	609.5	518.3	91.25	6.680	
9,600.0	7,288.9	9,472.4	7,288.3	48.8	47.2	90.04		2,314.9	-104.7	609.6	514.7	94.85	6.427	
9,700.0	7,288.4	9,572.4	7,287.8	50.6	49.0	90.04		2,414.8	-104.3	609.6	511.2	98.46	6.192	
9,800.0	7,287.9	9,672.4	7,287.3	52.4	50.9	90.04		2,514.8	-103.9	609.7	507.6	102.08	5.973	
9,900.0	7,287.5	9,772.4	7,286.8	54.2	52.7	90.04		2,614.8	-103.5	609.8	504.0	105.72	5.767	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-7N - Wellbore #1 - Plan #1 (8												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,000.0	7,287.0	9,872.4	7,286.3	55.9	54.5	90.03	2,714.8	-103.1	609.8	500.4	109.38	5.575	
10,100.0	7,286.5	9,972.4	7,285.9	57.7	56.3	90.03	2,814.8	-102.7	609.9	496.8	113.04	5.395	
10,200.0	7,286.0	10,072.4	7,285.4	59.5	58.2	90.03	2,914.8	-102.2	609.9	493.2	116.72	5.226	
10,300.0	7,285.6	10,172.4	7,284.9	61.4	60.0	90.03	3,014.8	-101.8	610.0	489.6	120.40	5.066	
10,400.0	7,285.1	10,272.4	7,284.4	63.2	61.9	90.03	3,114.8	-101.4	610.0	485.9	124.10	4.916	
10,500.0	7,284.6	10,372.4	7,283.9	65.0	63.7	90.03	3,214.8	-101.0	610.1	482.3	127.80	4.774	
10,600.0	7,284.2	10,472.4	7,283.4	66.8	65.6	90.02	3,314.8	-100.6	610.1	478.6	131.51	4.640	
10,700.0	7,283.7	10,572.4	7,282.9	68.7	67.5	90.02	3,414.8	-100.2	610.2	475.0	135.22	4.513	
10,800.0	7,283.2	10,672.4	7,282.4	70.5	69.3	90.02	3,514.8	-99.8	610.3	471.3	138.94	4.392	
10,900.0	7,282.7	10,772.4	7,281.9	72.3	71.2	90.02	3,614.8	-99.4	610.3	467.6	142.67	4.278	
11,000.0	7,282.3	10,872.4	7,281.5	74.2	73.0	90.02	3,714.8	-99.0	610.4	464.0	146.40	4.169	
11,100.0	7,281.8	10,972.4	7,281.0	76.0	74.9	90.02	3,814.8	-98.5	610.4	460.3	150.14	4.066	
11,200.0	7,281.3	11,072.4	7,280.5	77.9	76.8	90.01	3,914.8	-98.1	610.5	456.6	153.88	3.967	
11,300.0	7,280.9	11,172.4	7,280.0	79.7	78.7	90.01	4,014.8	-97.7	610.5	452.9	157.63	3.873	
11,400.0	7,280.4	11,272.4	7,279.5	81.6	80.5	90.01	4,114.8	-97.3	610.6	449.2	161.38	3.784	
11,500.0	7,279.9	11,372.4	7,279.0	83.4	82.4	90.01	4,214.8	-96.9	610.6	445.5	165.13	3.698	
11,600.0	7,279.4	11,472.4	7,278.5	85.3	84.3	90.01	4,314.8	-96.5	610.7	441.8	168.89	3.616	
11,700.0	7,279.0	11,572.4	7,278.0	87.2	86.2	90.01	4,414.8	-96.1	610.8	438.1	172.65	3.538	
11,800.0	7,278.5	11,672.4	7,277.5	89.0	88.1	90.00	4,514.8	-95.7	610.8	434.4	176.41	3.463	
11,900.0	7,278.0	11,772.4	7,277.1	90.9	89.9	90.00	4,614.8	-95.3	610.9	430.7	180.17	3.390	
11,905.5	7,278.0	11,777.9	7,277.0	91.0	90.0	90.00	4,620.3	-95.2	610.9	430.5	180.38	3.387 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	87.24		3.6	75.6	75.7				
100.0	100.0	99.0	99.0	0.1	0.1	87.24		3.6	75.6	75.7	75.5	0.22	338.549	
200.0	200.0	199.0	199.0	0.3	0.3	87.24		3.6	75.6	75.7	75.0	0.67	112.662	
300.0	300.0	299.0	299.0	0.6	0.6	87.24		3.6	75.6	75.7	74.6	1.12	67.507	
400.0	400.0	399.0	399.0	0.8	0.8	87.24		3.6	75.6	75.7	74.1	1.57	48.192	
500.0	500.0	499.0	499.0	1.0	1.0	87.24		3.6	75.6	75.7	73.7	2.02	37.470	
600.0	600.0	599.0	599.0	1.2	1.2	87.24		3.6	75.6	75.7	73.2	2.47	30.651 CC, ES	
700.0	700.0	699.0	699.0	1.4	1.5	-170.86		3.6	75.6	77.4	74.5	2.90	26.660	
800.0	799.8	798.8	798.8	1.7	1.7	-171.42		3.6	75.6	82.6	79.3	3.33	24.813	
900.0	899.5	898.5	898.5	1.9	1.9	-172.22		3.6	75.6	91.2	87.5	3.76	24.276	
1,000.0	998.7	997.7	997.7	2.1	2.1	-173.10		3.6	75.6	103.3	99.1	4.19	24.662	
1,100.0	1,097.6	1,096.6	1,096.6	2.4	2.4	-173.95		3.6	75.6	117.8	113.2	4.63	25.466	
1,200.0	1,196.5	1,195.5	1,195.5	2.7	2.6	-174.62		3.6	75.6	132.5	127.4	5.07	26.119	
1,300.0	1,295.5	1,294.5	1,294.5	3.0	2.8	-175.16		3.6	75.6	147.1	141.6	5.52	26.650	
1,400.0	1,394.4	1,393.4	1,393.4	3.4	3.0	-175.60		3.6	75.6	161.8	155.8	5.97	27.088	
1,500.0	1,493.3	1,492.3	1,492.3	3.7	3.2	-175.96		3.6	75.6	176.4	170.0	6.43	27.456	
1,600.0	1,592.2	1,591.2	1,591.2	4.0	3.5	-176.27		3.6	75.6	191.1	184.2	6.88	27.768	
1,700.0	1,691.1	1,690.1	1,690.1	4.4	3.7	-176.54		3.6	75.6	205.8	198.4	7.34	28.036	
1,800.0	1,790.0	1,789.0	1,789.0	4.7	3.9	-176.77		3.6	75.6	220.4	212.6	7.80	28.268	
1,900.0	1,888.9	1,887.9	1,887.9	5.1	4.1	-176.97		3.6	75.6	235.1	226.9	8.26	28.471	
2,000.0	1,987.9	1,986.9	1,986.9	5.4	4.4	-177.15		3.6	75.6	249.8	241.1	8.72	28.650	
2,100.0	2,086.8	2,085.8	2,085.8	5.8	4.6	-177.31		3.6	75.6	264.5	255.3	9.18	28.809	
2,200.0	2,185.7	2,184.7	2,184.7	6.1	4.8	-177.45		3.6	75.6	279.2	269.5	9.64	28.951	
2,300.0	2,284.6	2,283.6	2,283.6	6.5	5.0	-177.58		3.6	75.6	293.8	283.7	10.11	29.078	
2,400.0	2,383.5	2,382.5	2,382.5	6.8	5.2	-177.69		3.6	75.6	308.5	298.0	10.57	29.193	
2,500.0	2,482.4	2,481.4	2,481.4	7.2	5.5	-177.80		3.6	75.6	323.2	312.2	11.03	29.297	
2,600.0	2,581.3	2,582.7	2,582.7	7.6	5.7	-177.75		2.8	75.5	337.6	326.1	11.48	29.415	
2,700.0	2,680.2	2,684.8	2,684.7	7.9	5.8	-177.29		-0.8	74.9	351.2	339.3	11.90	29.514	
2,800.0	2,779.2	2,786.8	2,786.5	8.3	6.0	-176.46		-7.0	73.9	363.9	351.6	12.32	29.534	
2,900.0	2,878.1	2,888.1	2,887.4	8.6	6.2	-175.30		-15.7	72.5	376.0	363.3	12.76	29.475	
3,000.0	2,977.0	2,987.1	2,986.0	9.0	6.4	-174.13		-25.1	71.0	388.0	374.8	13.20	29.394	
3,100.0	3,075.9	3,086.0	3,084.5	9.3	6.6	-173.03		-34.4	69.4	400.2	386.5	13.65	29.309	
3,200.0	3,174.8	3,185.0	3,183.0	9.7	6.8	-171.99		-43.8	67.9	412.5	398.3	14.12	29.220	
3,300.0	3,273.7	3,284.0	3,281.5	10.1	7.0	-171.01		-53.1	66.4	424.9	410.3	14.59	29.127	
3,400.0	3,372.6	3,383.0	3,380.0	10.4	7.2	-170.09		-62.5	64.9	437.4	422.3	15.07	29.033	
3,500.0	3,471.6	3,481.9	3,478.5	10.8	7.4	-169.22		-71.8	63.4	450.0	434.5	15.55	28.937	
3,600.0	3,570.5	3,580.9	3,577.1	11.1	7.6	-168.40		-81.2	61.8	462.8	446.7	16.05	28.842	
3,700.0	3,669.4	3,679.9	3,675.6	11.5	7.9	-167.62		-90.5	60.3	475.6	459.1	16.54	28.746	
3,800.0	3,768.3	3,778.8	3,774.1	11.9	8.1	-166.88		-99.9	58.8	488.5	471.5	17.05	28.651	
3,900.0	3,867.2	3,877.8	3,872.6	12.2	8.3	-166.18		-109.2	57.3	501.5	483.9	17.56	28.557	
4,000.0	3,966.1	3,976.8	3,971.1	12.6	8.6	-165.51		-118.6	55.8	514.5	496.5	18.08	28.465	
4,100.0	4,065.0	4,075.8	4,069.7	12.9	8.8	-164.88		-127.9	54.2	527.6	509.1	18.60	28.375	
4,200.0	4,164.0	4,174.3	4,167.7	13.3	9.0	-164.30		-137.1	52.8	540.8	521.7	19.12	28.292	
4,300.0	4,262.9	4,271.9	4,265.1	13.7	9.3	-163.95		-144.2	51.6	554.3	534.7	19.62	28.253	
4,400.0	4,361.8	4,369.6	4,362.7	14.0	9.5	-163.87		-148.9	50.8	567.9	547.8	20.10	28.256	
4,500.0	4,460.7	4,467.3	4,460.3	14.4	9.7	-164.04		-151.2	50.5	581.9	561.3	20.56	28.307	
4,600.0	4,559.6	4,565.6	4,558.6	14.7	9.9	-164.41		-151.4	50.4	596.0	575.0	21.00	28.387	
4,700.0	4,658.5	4,664.5	4,657.5	15.1	10.1	-164.78		-151.4	50.4	610.2	588.7	21.44	28.464	
4,800.0	4,757.4	4,763.4	4,756.4	15.5	10.3	-165.13		-151.4	50.4	624.4	602.5	21.88	28.535	
4,900.0	4,856.4	4,862.3	4,855.4	15.8	10.5	-165.47		-151.4	50.4	638.6	616.3	22.33	28.604	
5,000.0	4,955.3	4,961.2	4,954.3	16.2	10.7	-165.80		-151.4	50.4	652.9	630.1	22.77	28.669	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,100.0	5,054.2	5,060.2	5,053.2	16.6	10.9	-166.11	-151.4	50.4	667.1	643.9	23.22	28.732		
5,200.0	5,153.1	5,159.1	5,152.1	16.9	11.1	-166.40	-151.4	50.4	681.4	657.8	23.67	28.792		
5,300.0	5,252.0	5,258.0	5,251.0	17.3	11.3	-166.69	-151.4	50.4	695.7	671.6	24.12	28.849		
5,400.0	5,350.9	5,356.9	5,349.9	17.6	11.5	-166.96	-151.4	50.4	710.0	685.5	24.57	28.905		
5,500.0	5,449.8	5,455.8	5,448.8	18.0	11.8	-167.22	-151.4	50.4	724.4	699.4	25.01	28.958		
5,600.0	5,548.8	5,554.7	5,547.8	18.4	12.0	-167.47	-151.4	50.4	738.7	713.3	25.47	29.009		
5,700.0	5,647.8	5,653.8	5,646.8	18.7	12.2	-167.74	-151.4	50.4	752.3	726.4	25.92	29.019		
5,800.0	5,747.2	5,753.2	5,746.2	18.9	12.4	-167.95	-151.4	50.4	762.6	736.3	26.33	28.958		
5,900.0	5,847.0	5,852.9	5,846.0	19.1	12.6	-168.09	-151.4	50.4	769.5	742.8	26.72	28.903		
6,000.0	5,946.9	5,952.9	5,945.9	19.2	12.8	-168.16	-151.4	50.4	773.1	746.0	27.07	28.858		
6,100.0	6,046.9	6,052.9	6,045.9	19.4	13.0	89.73	-151.4	50.4	773.5	746.1	27.43	28.205		
6,200.0	6,146.9	6,152.9	6,145.9	19.5	13.2	89.73	-151.4	50.4	773.5	745.7	27.82	27.806		
6,300.0	6,246.9	6,252.9	6,245.9	19.7	13.5	89.73	-151.4	50.4	773.5	745.3	28.21	27.417		
6,400.0	6,346.9	6,352.9	6,345.9	19.8	13.7	89.73	-151.4	50.4	773.5	744.9	28.61	27.037		
6,500.0	6,446.9	6,452.9	6,445.9	19.9	13.9	89.73	-151.4	50.4	773.5	744.5	29.01	26.666		
6,600.0	6,546.9	6,552.9	6,545.9	20.1	14.1	89.73	-151.4	50.4	773.5	744.1	29.41	26.304		
6,625.1	6,571.9	6,577.9	6,570.9	20.1	14.1	89.73	-151.4	50.4	773.5	744.0	29.51	26.215		
6,700.0	6,646.9	6,652.1	6,645.0	20.2	14.3	89.52	-148.5	50.4	773.6	743.8	29.79	25.970		
6,800.0	6,746.9	6,748.5	6,740.2	20.4	14.5	88.40	-133.4	50.5	773.9	743.8	30.09	25.723		
6,900.0	6,846.7	6,840.8	6,828.6	20.5	14.6	86.46	-107.1	50.6	775.1	744.8	30.32	25.563		
7,000.0	6,943.9	6,931.5	6,911.5	20.6	14.7	85.06	-70.4	50.8	776.5	746.0	30.51	25.452		
7,100.0	7,035.0	7,021.4	6,988.4	20.7	14.8	84.13	-24.0	50.9	777.7	747.0	30.71	25.323		
7,200.0	7,116.6	7,110.8	7,058.5	20.7	15.0	83.71	31.4	51.2	778.3	747.3	30.99	25.114		
7,300.0	7,185.8	7,200.0	7,121.1	20.8	15.3	83.81	94.9	51.4	778.2	746.8	31.42	24.764		
7,400.0	7,239.9	7,289.6	7,175.5	20.9	15.7	84.42	166.0	51.7	777.4	745.3	32.10	24.219		
7,500.0	7,277.0	7,379.8	7,220.9	21.1	16.1	85.52	243.9	52.0	776.2	743.1	33.07	23.467		
7,600.0	7,295.8	7,471.0	7,256.5	21.4	16.8	87.09	327.7	52.4	774.8	740.4	34.39	22.533		
7,700.0	7,297.8	7,564.2	7,281.5	21.8	17.6	88.87	417.4	52.8	774.0	737.9	36.04	21.474		
7,773.6	7,297.5	7,635.8	7,292.7	22.3	18.3	89.72	488.2	53.0	773.9	736.4	37.47	20.652		
7,800.0	7,297.3	7,662.1	7,295.1	22.5	18.6	89.91	514.3	53.2	773.9	735.9	38.00	20.365		
7,900.0	7,296.9	7,762.0	7,296.6	23.3	19.7	90.06	614.2	53.6	773.9	733.7	40.20	19.250		
8,000.0	7,296.4	7,862.0	7,296.1	24.3	20.9	90.05	714.2	54.0	774.0	731.4	42.63	18.157		
8,100.0	7,295.9	7,962.0	7,295.6	25.4	22.2	90.05	814.2	54.4	774.0	728.8	45.24	17.109		
8,200.0	7,295.5	8,062.0	7,295.2	26.6	23.6	90.05	914.2	54.8	774.1	726.1	48.02	16.121		
8,300.0	7,295.0	8,162.0	7,294.7	27.9	25.1	90.05	1,014.2	55.2	774.1	723.2	50.93	15.200		
8,400.0	7,294.5	8,262.0	7,294.2	29.3	26.6	90.05	1,114.2	55.6	774.2	720.2	53.96	14.348		
8,500.0	7,294.0	8,362.0	7,293.7	30.8	28.2	90.05	1,214.2	56.0	774.2	717.2	57.08	13.564		
8,600.0	7,293.6	8,462.0	7,293.2	32.2	29.8	90.05	1,314.2	56.4	774.3	714.0	60.29	12.843		
8,700.0	7,293.1	8,562.0	7,292.7	33.8	31.5	90.05	1,414.2	56.8	774.4	710.8	63.56	12.183		
8,800.0	7,292.6	8,662.0	7,292.2	35.4	33.2	90.04	1,514.2	57.3	774.4	707.5	66.90	11.576		
8,900.0	7,292.2	8,762.0	7,291.7	37.0	34.9	90.04	1,614.2	57.7	774.5	704.2	70.28	11.020		
9,000.0	7,291.7	8,862.0	7,291.3	38.6	36.6	90.04	1,714.2	58.1	774.5	700.8	73.71	10.508		
9,100.0	7,291.2	8,962.0	7,290.8	40.3	38.3	90.04	1,814.2	58.5	774.6	697.4	77.17	10.037		
9,200.0	7,290.7	9,062.0	7,290.3	41.9	40.1	90.04	1,914.2	58.9	774.6	694.0	80.67	9.603		
9,300.0	7,290.3	9,162.0	7,289.8	43.6	41.9	90.04	2,014.2	59.3	774.7	690.5	84.19	9.201		
9,400.0	7,289.8	9,262.0	7,289.3	45.4	43.6	90.04	2,114.2	59.7	774.7	687.0	87.75	8.829		
9,500.0	7,289.3	9,362.0	7,288.8	47.1	45.4	90.03	2,214.2	60.1	774.8	683.5	91.32	8.484		
9,600.0	7,288.9	9,462.0	7,288.3	48.8	47.2	90.03	2,314.2	60.5	774.8	679.9	94.91	8.164		
9,700.0	7,288.4	9,562.0	7,287.8	50.6	49.1	90.03	2,414.2	60.9	774.9	676.4	98.53	7.865		
9,800.0	7,287.9	9,662.0	7,287.3	52.4	50.9	90.03	2,514.2	61.4	775.0	672.8	102.15	7.586		
9,900.0	7,287.5	9,762.0	7,286.9	54.2	52.7	90.03	2,614.2	61.8	775.0	669.2	105.79	7.326		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-8N - Wellbore #1 - Plan #1 (8												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,000.0	7,287.0	9,862.0	7,286.4	55.9	54.5	90.03	2,714.2	62.2	775.1	665.6	109.45	7.081	
10,100.0	7,286.5	9,962.0	7,285.9	57.7	56.4	90.03	2,814.2	62.6	775.1	662.0	113.11	6.852	
10,200.0	7,286.0	10,062.0	7,285.4	59.5	58.2	90.03	2,914.2	63.0	775.2	658.4	116.79	6.637	
10,300.0	7,285.6	10,162.0	7,284.9	61.4	60.1	90.02	3,014.2	63.4	775.2	654.7	120.48	6.435	
10,400.0	7,285.1	10,262.0	7,284.4	63.2	61.9	90.02	3,114.2	63.8	775.3	651.1	124.17	6.244	
10,500.0	7,284.6	10,362.0	7,283.9	65.0	63.8	90.02	3,214.2	64.2	775.3	647.5	127.87	6.063	
10,600.0	7,284.2	10,462.0	7,283.4	66.8	65.6	90.02	3,314.2	64.6	775.4	643.8	131.58	5.893	
10,700.0	7,283.7	10,562.0	7,282.9	68.7	67.5	90.02	3,414.2	65.0	775.4	640.1	135.30	5.731	
10,800.0	7,283.2	10,662.0	7,282.5	70.5	69.4	90.02	3,514.2	65.5	775.5	636.5	139.02	5.578	
10,900.0	7,282.7	10,762.0	7,282.0	72.3	71.2	90.02	3,614.2	65.9	775.5	632.8	142.75	5.433	
11,000.0	7,282.3	10,862.0	7,281.5	74.2	73.1	90.02	3,714.2	66.3	775.6	629.1	146.48	5.295	
11,100.0	7,281.8	10,962.0	7,281.0	76.0	75.0	90.01	3,814.2	66.7	775.7	625.4	150.22	5.164	
11,200.0	7,281.3	11,062.0	7,280.5	77.9	76.8	90.01	3,914.2	67.1	775.7	621.7	153.96	5.038	
11,300.0	7,280.9	11,162.0	7,280.0	79.7	78.7	90.01	4,014.1	67.5	775.8	618.1	157.71	4.919	
11,400.0	7,280.4	11,262.0	7,279.5	81.6	80.6	90.01	4,114.1	67.9	775.8	614.4	161.46	4.805	
11,500.0	7,279.9	11,362.0	7,279.0	83.4	82.5	90.01	4,214.1	68.3	775.9	610.7	165.21	4.696	
11,600.0	7,279.4	11,462.0	7,278.5	85.3	84.3	90.01	4,314.1	68.7	775.9	607.0	168.97	4.592	
11,700.0	7,279.0	11,562.0	7,278.1	87.2	86.2	90.01	4,414.1	69.1	776.0	603.3	172.73	4.493	
11,800.0	7,278.5	11,662.0	7,277.6	89.0	88.1	90.00	4,514.1	69.6	776.0	599.5	176.49	4.397	
11,900.0	7,278.0	11,762.0	7,277.1	90.9	90.0	90.00	4,614.1	70.0	776.1	595.8	180.25	4.306	
11,905.5	7,278.0	11,767.5	7,277.1	91.0	90.1	90.00	4,619.7	70.0	776.1	595.6	180.46	4.301 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	87.67		3.6	89.6	89.7				
100.0	100.0	99.0	99.0	0.1	0.1	87.67		3.6	89.6	89.7	89.5	0.22	401.110	
200.0	200.0	199.0	199.0	0.3	0.3	87.67		3.6	89.6	89.7	89.0	0.67	133.481	
300.0	300.0	299.0	299.0	0.6	0.6	87.67		3.6	89.6	89.7	88.6	1.12	79.982	
400.0	400.0	399.0	399.0	0.8	0.8	87.67		3.6	89.6	89.7	88.1	1.57	57.097	
500.0	500.0	499.0	499.0	1.0	1.0	87.67		3.6	89.6	89.7	87.7	2.02	44.395	
600.0	600.0	599.0	599.0	1.2	1.2	87.67		3.6	89.6	89.7	87.2	2.47	36.316 CC, ES	
700.0	700.0	699.0	699.0	1.4	1.5	-170.41		3.6	89.6	91.4	88.5	2.90	31.476	
800.0	799.8	798.8	798.8	1.7	1.7	-170.91		3.6	89.6	96.6	93.3	3.33	29.013	
900.0	899.5	898.5	898.5	1.9	1.9	-171.63		3.6	89.6	105.2	101.4	3.76	27.993	
1,000.0	998.7	997.7	997.7	2.1	2.1	-172.47		3.6	89.6	117.3	113.1	4.19	27.990	
1,100.0	1,097.6	1,096.6	1,096.6	2.4	2.4	-173.29		3.6	89.6	131.8	127.1	4.63	28.475	
1,200.0	1,196.5	1,195.5	1,195.5	2.7	2.6	-173.97		3.6	89.6	146.4	141.3	5.07	28.860	
1,300.0	1,295.5	1,294.5	1,294.5	3.0	2.8	-174.52		3.6	89.6	161.0	155.5	5.52	29.164	
1,400.0	1,394.4	1,393.4	1,393.4	3.4	3.0	-174.97		3.6	89.6	175.7	169.7	5.97	29.409	
1,500.0	1,493.3	1,492.3	1,492.3	3.7	3.2	-175.36		3.6	89.6	190.3	183.9	6.43	29.610	
1,600.0	1,592.2	1,591.2	1,591.2	4.0	3.5	-175.69		3.6	89.6	205.0	198.1	6.88	29.777	
1,700.0	1,691.1	1,690.1	1,690.1	4.4	3.7	-175.98		3.6	89.6	219.6	212.3	7.34	29.918	
1,800.0	1,790.0	1,789.0	1,789.0	4.7	3.9	-176.23		3.6	89.6	234.3	226.5	7.80	30.038	
1,900.0	1,888.9	1,885.1	1,885.1	5.1	4.1	-176.26		2.9	90.2	249.4	241.2	8.23	30.299	
2,000.0	1,987.9	1,980.4	1,980.4	5.4	4.3	-175.84		0.3	92.3	265.9	257.2	8.65	30.744	
2,100.0	2,086.8	2,075.2	2,075.0	5.8	4.5	-175.05		-4.0	95.9	283.6	274.5	9.07	31.280	
2,200.0	2,185.7	2,169.3	2,168.7	6.1	4.6	-173.98		-10.2	100.9	302.7	293.2	9.49	31.882	
2,300.0	2,284.6	2,264.3	2,263.2	6.5	4.8	-172.70		-18.1	107.3	323.2	313.2	9.94	32.523	
2,400.0	2,383.5	2,361.8	2,360.1	6.8	5.0	-171.46		-26.6	114.2	344.1	333.7	10.39	33.107	
2,500.0	2,482.4	2,459.4	2,457.0	7.2	5.3	-170.37		-35.1	121.1	365.1	354.2	10.86	33.630	
2,600.0	2,581.3	2,556.9	2,553.9	7.6	5.5	-169.40		-43.6	128.0	386.2	374.9	11.33	34.093	
2,700.0	2,680.2	2,654.4	2,650.9	7.9	5.7	-168.53		-52.0	134.9	407.4	395.6	11.81	34.513	
2,800.0	2,779.2	2,752.0	2,747.8	8.3	6.0	-167.75		-60.5	141.8	428.7	416.5	12.29	34.890	
2,900.0	2,878.1	2,849.5	2,844.7	8.6	6.2	-167.03		-69.0	148.7	450.1	437.4	12.78	35.230	
3,000.0	2,977.0	2,947.1	2,941.6	9.0	6.5	-166.39		-77.5	155.6	471.6	458.3	13.27	35.538	
3,100.0	3,075.9	3,044.6	3,038.6	9.3	6.7	-165.80		-86.0	162.5	493.1	479.3	13.77	35.818	
3,200.0	3,174.8	3,142.2	3,135.5	9.7	7.0	-165.26		-94.5	169.4	514.6	500.3	14.27	36.073	
3,300.0	3,273.7	3,239.7	3,232.4	10.1	7.3	-164.76		-103.0	176.3	536.2	521.4	14.77	36.306	
3,400.0	3,372.6	3,337.2	3,329.4	10.4	7.5	-164.30		-111.4	183.2	557.8	542.5	15.27	36.521	
3,500.0	3,471.6	3,434.8	3,426.3	10.8	7.8	-163.88		-119.9	190.1	579.5	563.7	15.78	36.718	
3,600.0	3,570.5	3,532.3	3,523.2	11.1	8.1	-163.48		-128.4	197.0	601.1	584.8	16.29	36.899	
3,700.0	3,669.4	3,636.0	3,626.3	11.5	8.3	-163.12		-137.1	204.1	622.6	605.8	16.80	37.049	
3,800.0	3,768.3	3,746.7	3,736.6	11.9	8.6	-162.94		-144.3	209.9	642.4	625.0	17.31	37.109	
3,900.0	3,867.2	3,858.3	3,848.0	12.2	8.8	-162.98		-149.0	213.7	660.1	642.3	17.80	37.081	
4,000.0	3,966.1	3,970.6	3,960.3	12.6	9.1	-163.22		-151.2	215.5	675.9	657.7	18.28	36.974	
4,100.0	4,065.0	4,074.4	4,064.0	12.9	9.3	-163.58		-151.4	215.6	690.2	671.4	18.73	36.840	
4,200.0	4,164.0	4,173.3	4,163.0	13.3	9.5	-163.91		-151.4	215.6	704.3	685.1	19.18	36.719	
4,300.0	4,262.9	4,272.2	4,261.9	13.7	9.6	-164.24		-151.4	215.6	718.4	698.8	19.63	36.600	
4,400.0	4,361.8	4,371.1	4,360.8	14.0	9.8	-164.55		-151.4	215.6	732.6	712.5	20.08	36.487	
4,500.0	4,460.7	4,470.0	4,459.7	14.4	10.0	-164.85		-151.4	215.6	746.8	726.3	20.53	36.379	
4,600.0	4,559.6	4,568.9	4,558.6	14.7	10.2	-165.14		-151.4	215.6	761.0	740.0	20.98	36.276	
4,700.0	4,658.5	4,667.9	4,657.5	15.1	10.4	-165.42		-151.4	215.6	775.2	753.8	21.43	36.176	
4,800.0	4,757.4	4,766.8	4,756.4	15.5	10.6	-165.69		-151.4	215.6	789.5	767.6	21.88	36.081	
4,900.0	4,856.4	4,865.7	4,855.4	15.8	10.8	-165.94		-151.4	215.6	803.7	781.4	22.33	35.989	
5,000.0	4,955.3	4,964.6	4,954.3	16.2	11.0	-166.19		-151.4	215.6	818.0	795.2	22.78	35.901	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,100.0	5,054.2	5,063.5	5,053.2	16.6	11.2	-166.44	-151.4	215.6	832.3	809.0	23.24	35.817		
5,200.0	5,153.1	5,162.4	5,152.1	16.9	11.4	-166.67	-151.4	215.6	846.6	822.9	23.69	35.735		
5,300.0	5,252.0	5,261.3	5,251.0	17.3	11.7	-166.89	-151.4	215.6	860.9	836.8	24.14	35.656		
5,400.0	5,350.9	5,360.3	5,349.9	17.6	11.9	-167.11	-151.4	215.6	875.2	850.6	24.60	35.581		
5,500.0	5,449.8	5,459.2	5,448.8	18.0	12.1	-167.32	-151.4	215.6	889.6	864.5	25.05	35.507		
5,600.0	5,548.8	5,558.1	5,547.8	18.4	12.3	-167.53	-151.4	215.6	903.9	878.4	25.51	35.437		
5,700.0	5,647.8	5,657.1	5,646.8	18.7	12.5	-167.75	-151.4	215.6	917.5	891.5	25.98	35.318		
5,800.0	5,747.2	5,756.5	5,746.2	18.9	12.7	-167.94	-151.4	215.6	927.8	901.4	26.40	35.142		
5,900.0	5,847.0	5,856.3	5,846.0	19.1	12.9	-168.06	-151.4	215.6	934.7	907.9	26.80	34.884		
6,000.0	5,946.9	5,956.2	5,945.9	19.2	13.1	-168.12	-151.4	215.6	938.3	911.1	27.16	34.548		
6,100.0	6,046.9	6,056.2	6,045.9	19.4	13.3	89.78	-151.4	215.6	938.7	911.2	27.52	34.110		
6,200.0	6,146.9	6,156.2	6,145.9	19.5	13.5	89.78	-151.4	215.6	938.7	910.8	27.91	33.630		
6,300.0	6,246.9	6,256.2	6,245.9	19.7	13.7	89.78	-151.4	215.6	938.7	910.4	28.31	33.161		
6,400.0	6,346.9	6,356.2	6,345.9	19.8	14.0	89.78	-151.4	215.6	938.7	910.0	28.70	32.704		
6,500.0	6,446.9	6,456.2	6,445.9	19.9	14.2	89.78	-151.4	215.6	938.7	909.6	29.10	32.257		
6,600.0	6,546.9	6,556.2	6,545.9	20.1	14.4	89.78	-151.4	215.6	938.7	909.2	29.50	31.821		
6,700.0	6,646.9	6,656.2	6,645.9	20.2	14.6	89.78	-151.4	215.6	938.7	908.8	29.90	31.395		
6,800.0	6,746.9	6,756.2	6,745.9	20.4	14.8	89.78	-151.4	215.6	938.7	908.4	30.30	30.979		
6,900.0	6,846.7	6,856.5	6,845.2	20.5	15.0	89.68	-148.4	215.6	938.7	908.0	30.69	30.587		
6,966.6	6,911.9	6,921.7	6,910.6	20.6	15.1	89.93	-139.5	215.7	938.7	907.8	30.89	30.386		
7,000.0	6,943.9	6,954.9	6,943.2	20.6	15.2	90.11	-132.7	215.7	938.7	907.7	30.99	30.289		
7,100.0	7,035.0	7,055.2	7,038.9	20.7	15.3	90.84	-103.2	215.8	938.8	907.6	31.24	30.050		
7,200.0	7,116.6	7,156.7	7,130.7	20.7	15.5	91.87	-60.0	216.0	939.3	907.8	31.50	29.819		
7,300.0	7,185.8	7,260.2	7,217.1	20.8	15.6	93.15	-3.1	216.2	940.3	908.5	31.84	29.532		
7,400.0	7,239.9	7,366.4	7,296.2	20.9	15.7	94.66	67.6	216.5	942.2	909.9	32.36	29.114		
7,500.0	7,277.0	7,476.1	7,366.0	21.1	16.1	96.34	152.1	216.9	945.3	912.2	33.17	28.500		
7,600.0	7,295.8	7,590.5	7,424.2	21.4	16.7	98.17	250.4	217.3	949.9	915.6	34.36	27.651		
7,700.0	7,297.8	7,711.8	7,468.0	21.8	17.6	100.32	363.4	217.7	955.8	919.9	35.94	26.597		
7,800.0	7,297.3	7,845.0	7,493.4	22.5	18.8	101.84	493.9	218.3	959.7	921.8	37.97	25.278		
7,900.0	7,296.9	7,965.5	7,496.7	23.3	20.1	102.07	614.3	218.8	960.4	920.1	40.29	23.837		
8,000.0	7,296.4	8,065.5	7,496.4	24.3	21.3	102.08	714.3	219.2	960.4	917.8	42.64	22.524		
8,100.0	7,295.9	8,165.5	7,496.0	25.4	22.6	102.08	814.3	219.6	960.5	915.3	45.18	21.260		
8,200.0	7,295.5	8,265.5	7,495.6	26.6	24.0	102.09	914.3	220.0	960.6	912.7	47.88	20.063		
8,300.0	7,295.0	8,365.5	7,495.3	27.9	25.4	102.09	1,014.3	220.4	960.7	910.0	50.71	18.943		
8,400.0	7,294.5	8,465.5	7,494.9	29.3	26.9	102.10	1,114.3	220.8	960.7	907.1	53.66	17.904		
8,500.0	7,294.0	8,565.5	7,494.5	30.8	28.5	102.10	1,214.3	221.2	960.8	904.1	56.70	16.945		
8,600.0	7,293.6	8,665.5	7,494.2	32.2	30.1	102.11	1,314.3	221.6	960.9	901.1	59.83	16.061		
8,700.0	7,293.1	8,765.5	7,493.8	33.8	31.7	102.11	1,414.3	222.1	961.0	898.0	63.02	15.249		
8,800.0	7,292.6	8,865.5	7,493.4	35.4	33.4	102.12	1,514.3	222.5	961.0	894.8	66.27	14.502		
8,900.0	7,292.2	8,965.5	7,493.1	37.0	35.1	102.13	1,614.3	222.9	961.1	891.5	69.57	13.815		
9,000.0	7,291.7	9,065.5	7,492.7	38.6	36.8	102.13	1,714.3	223.3	961.2	888.3	72.92	13.182		
9,100.0	7,291.2	9,165.5	7,492.3	40.3	38.5	102.14	1,814.2	223.7	961.3	885.0	76.30	12.598		
9,200.0	7,290.7	9,265.5	7,492.0	41.9	40.2	102.14	1,914.2	224.1	961.3	881.6	79.72	12.059		
9,300.0	7,290.3	9,365.5	7,491.6	43.6	42.0	102.15	2,014.2	224.5	961.4	878.3	83.16	11.561		
9,400.0	7,289.8	9,465.5	7,491.2	45.4	43.8	102.15	2,114.2	224.9	961.5	874.9	86.63	11.098		
9,500.0	7,289.3	9,565.5	7,490.9	47.1	45.6	102.16	2,214.2	225.3	961.6	871.4	90.13	10.669		
9,600.0	7,288.9	9,665.5	7,490.5	48.8	47.4	102.16	2,314.2	225.8	961.6	868.0	93.64	10.269		
9,700.0	7,288.4	9,765.5	7,490.1	50.6	49.2	102.17	2,414.2	226.2	961.7	864.6	97.17	9.897		
9,800.0	7,287.9	9,865.5	7,489.8	52.4	51.0	102.17	2,514.2	226.6	961.8	861.1	100.72	9.549		
9,900.0	7,287.5	9,965.5	7,489.4	54.2	52.8	102.18	2,614.2	227.0	961.9	857.6	104.28	9.224		
10,000.0	7,287.0	10,065.5	7,489.0	55.9	54.6	102.19	2,714.2	227.4	962.0	854.1	107.86	8.919		

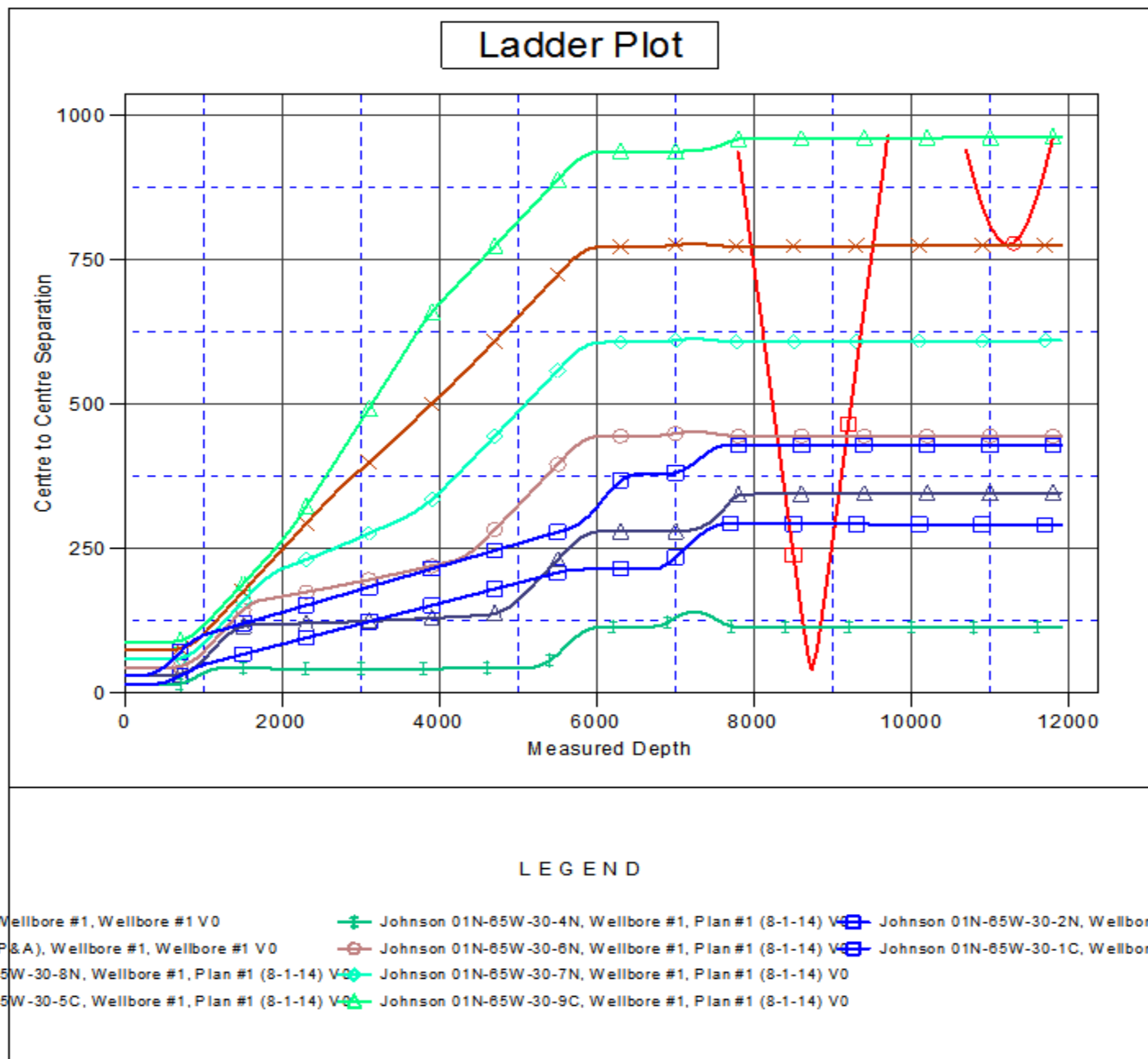
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	landmark
Reference Design:	Plan #2 (8-5-14)	Offset TVD Reference:	Offset Datum

Offset Design Johnson 01N-65W-30-1C Pad Sec.30-T1N-R65W - Johnson 01N-65W-30-9C - Wellbore #1 - Plan #1 (8												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.0	7,286.5	10,165.5	7,488.7	57.7	56.5	102.19	2,814.2	227.8	962.0	850.6	111.44	8.633	
10,200.0	7,286.0	10,265.5	7,488.3	59.5	58.3	102.20	2,914.2	228.2	962.1	847.1	115.04	8.363	
10,300.0	7,285.6	10,365.5	7,487.9	61.4	60.1	102.20	3,014.2	228.6	962.2	843.5	118.64	8.110	
10,400.0	7,285.1	10,465.5	7,487.6	63.2	62.0	102.21	3,114.2	229.0	962.3	840.0	122.26	7.871	
10,500.0	7,284.6	10,565.5	7,487.2	65.0	63.8	102.21	3,214.2	229.4	962.3	836.4	125.88	7.645	
10,600.0	7,284.2	10,665.5	7,486.8	66.8	65.7	102.22	3,314.2	229.9	962.4	832.9	129.51	7.431	
10,700.0	7,283.7	10,765.5	7,486.5	68.7	67.5	102.22	3,414.2	230.3	962.5	829.3	133.15	7.229	
10,800.0	7,283.2	10,865.5	7,486.1	70.5	69.4	102.23	3,514.2	230.7	962.6	825.8	136.79	7.037	
10,900.0	7,282.7	10,965.5	7,485.7	72.3	71.3	102.23	3,614.2	231.1	962.6	822.2	140.44	6.854	
11,000.0	7,282.3	11,065.5	7,485.4	74.2	73.1	102.24	3,714.2	231.5	962.7	818.6	144.09	6.681	
11,100.0	7,281.8	11,165.5	7,485.0	76.0	75.0	102.24	3,814.2	231.9	962.8	815.0	147.75	6.516	
11,200.0	7,281.3	11,265.5	7,484.6	77.9	76.9	102.25	3,914.2	232.3	962.9	811.4	151.41	6.359	
11,300.0	7,280.9	11,365.5	7,484.3	79.7	78.7	102.26	4,014.2	232.7	962.9	807.9	155.08	6.209	
11,400.0	7,280.4	11,465.5	7,483.9	81.6	80.6	102.26	4,114.2	233.1	963.0	804.3	158.75	6.066	
11,500.0	7,279.9	11,565.5	7,483.5	83.4	82.5	102.27	4,214.2	233.5	963.1	800.7	162.42	5.929	
11,600.0	7,279.4	11,665.5	7,483.2	85.3	84.4	102.27	4,314.2	234.0	963.2	797.1	166.10	5.799	
11,700.0	7,279.0	11,765.5	7,482.8	87.2	86.2	102.28	4,414.2	234.4	963.2	793.5	169.78	5.673	
11,800.0	7,278.5	11,865.5	7,482.4	89.0	88.1	102.28	4,514.2	234.8	963.3	789.8	173.46	5.553	
11,900.0	7,278.0	11,965.5	7,482.1	90.9	90.0	102.29	4,614.2	235.2	963.4	786.2	177.15	5.438	
11,905.5	7,278.0	11,971.0	7,482.0	91.0	90.1	102.29	4,619.7	235.2	963.4	786.0	177.35	5.432 SF	

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	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-30-3N
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.51°



Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Johnson 01N-65W-30-3N
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-30-3N	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

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