Verdad Oil & Gas Corporation

Well Name: **Young 01N-65W-28-1C**

Surface Location: Young 01N-65W-28 Pad Sec.28-T1N-R65W

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

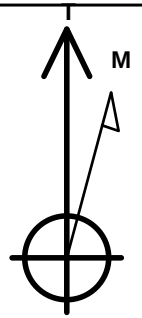
Ground Elevation: 5070.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1254520.23	3233959.66	40.029020	-104.664520	

Original Well Elev WELL @ 5083.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 230'FNL & 1380'FEL	1.0	0.0	0.0	Point
BHL 460'FSL & 2050'FEL	7454.0	-4604.6	-694.6	Point



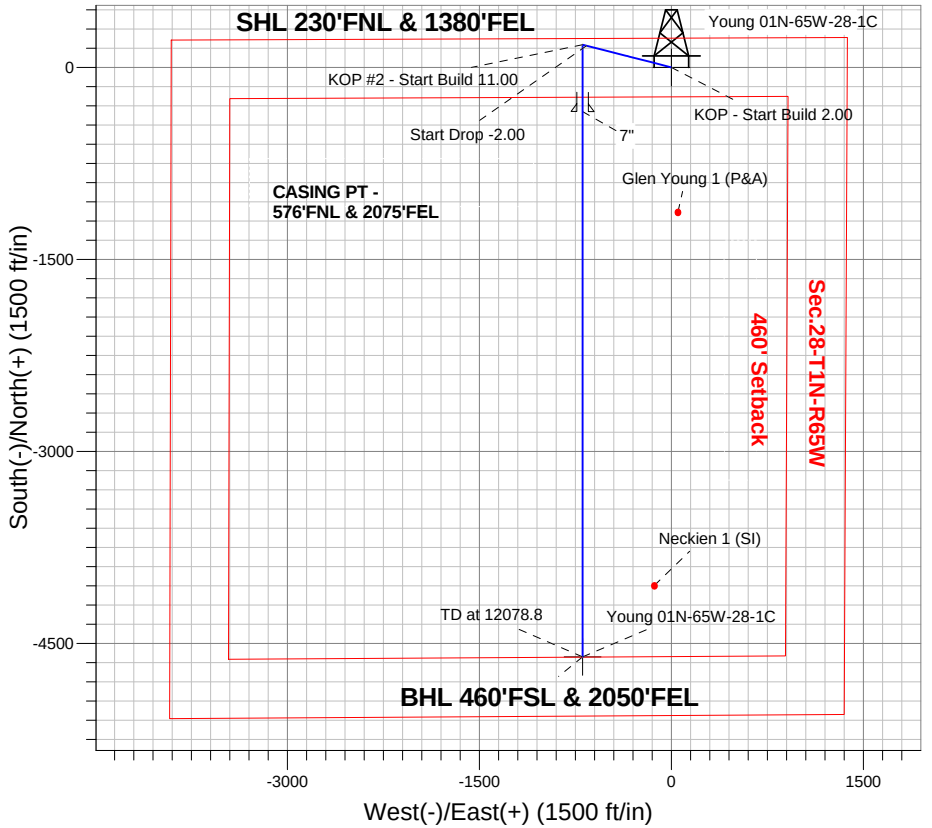
Azimuths to True North
Magnetic North: 8.35°

Magnetic Field
Strength: 52607.2snT
Dip Angle: 66.66°
Date: 8/29/2014
Model: IGRF2010

Young 01N-65W-28 Pad Sec.28-T1N-R65W
Young 01N-65W-28-1C
Plan #1 (8-29-14)

ANNOTATIONS

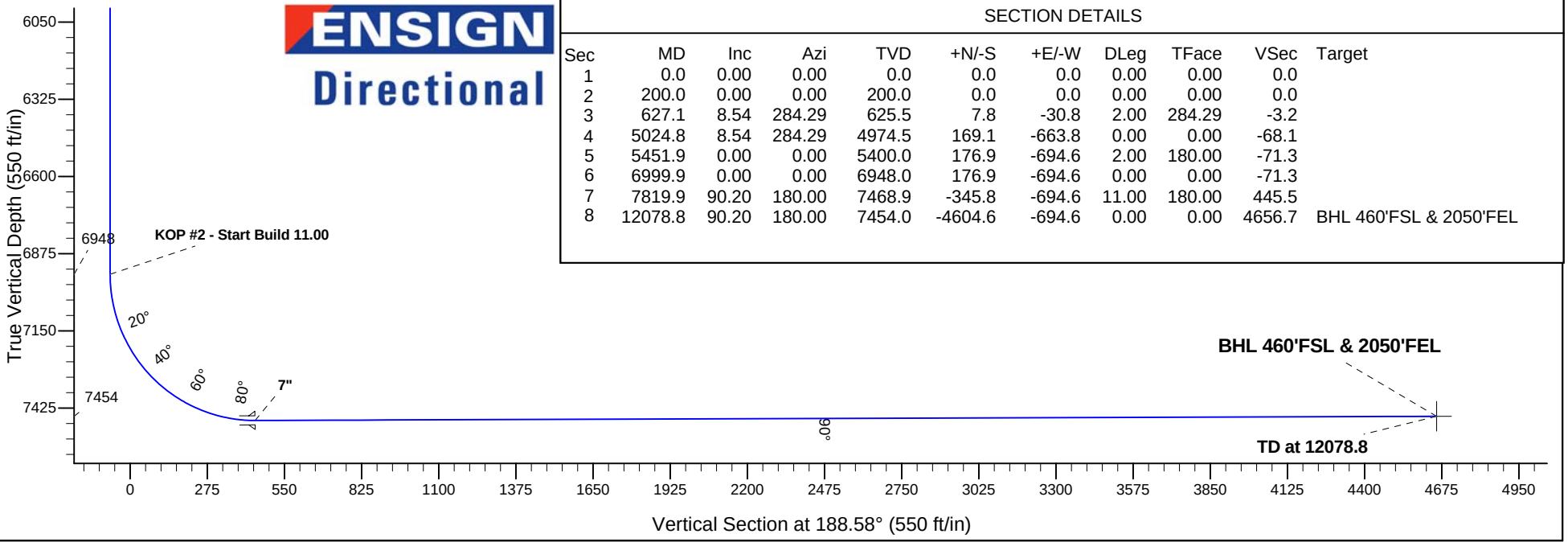
TVD	MD	Annotation
200.0	200.0	KOP - Start Build 2.00
4974.5	5024.8	Start Drop -2.00
6948.0	6999.9	KOP #2 - Start Build 11.00
7454.0	12078.8	TD at 12078.8



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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	627.1	8.54	284.29	625.5	7.8	-30.8	2.00	284.29	-3.2	
4	5024.8	8.54	284.29	4974.5	169.1	-663.8	0.00	0.00	-68.1	
5	5451.9	0.00	0.00	5400.0	176.9	-694.6	2.00	180.00	-71.3	
6	6999.9	0.00	0.00	6948.0	176.9	-694.6	0.00	0.00	-71.3	
7	7819.9	90.20	180.00	7468.9	-345.8	-694.6	11.00	180.00	445.5	
8	12078.8	90.20	180.00	7454.0	-4604.6	-694.6	0.00	0.00	4656.7	BHL 460'FSL & 2050'FEL

ENSIGN Directional



Verdad Oil & Gas Corporation

SEC.28-T1N-R65W
Young 01N-65W-28 Pad Sec.28-T1N-R65W
Young 01N-65W-28-1C

Wellbore #1

Plan: Plan #1 (8-29-14)

Standard Planning Report

11 September, 2014

Database:	Landmark	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Company:	Verdad Oil & Gas Corporation	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**North Reference:**	True
Well:	Young 01N-65W-28-1C	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-29-14)		

Project SEC.28-T1N-R65W, Weld County, Colorado

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 Young 01N-65W-28 Pad Sec.28-T1N-R65W

Site Position:		**Northing:**	1,254,520.25 ft	**Latitude:**	40.029020
From:	Lat/Long	**Easting:**	3,233,959.66 ft	**Longitude:**	-104.664520
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.54 °

Well Young 01N-65W-28-1C

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,254,520.23 ft	**Latitude:**	40.029020
	+E/-W	0.0 ft	**Easting:**	3,233,959.66 ft	**Longitude:**	-104.664520
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,070.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/29/2014	8.35	66.66	52,607

Design Plan #1 (8-29-14)

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	188.58

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
627.1	8.54	284.29	625.5	7.8	-30.8	2.00	2.00	0.00	284.29	
5,024.8	8.54	284.29	4,974.5	169.1	-663.8	0.00	0.00	0.00	0.00	
5,451.9	0.00	0.00	5,400.0	176.9	-694.6	2.00	-2.00	0.00	180.00	
6,999.9	0.00	0.00	6,948.0	176.9	-694.6	0.00	0.00	0.00	0.00	
7,819.9	90.20	180.00	7,468.9	-345.8	-694.6	11.00	11.00	0.00	180.00	
12,078.8	90.20	180.00	7,454.0	-4,604.6	-694.6	0.00	0.00	0.00	0.00	BHL 460'FSL & 205

Database:	Landmark	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Company:	Verdad Oil & Gas Corporation	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**North Reference:**	True
Well:	Young 01N-65W-28-1C	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-29-14)		

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
KOP - Start Build 2.00									
300.0	2.00	284.29	300.0	0.4	-1.7	-0.2	2.00	2.00	0.00
400.0	4.00	284.29	399.8	1.7	-6.8	-0.7	2.00	2.00	0.00
500.0	6.00	284.29	499.5	3.9	-15.2	-1.6	2.00	2.00	0.00
600.0	8.00	284.29	598.7	6.9	-27.0	-2.8	2.00	2.00	0.00
627.1	8.54	284.29	625.5	7.8	-30.8	-3.2	2.00	2.00	0.00
700.0	8.54	284.29	697.6	10.5	-41.3	-4.2	0.00	0.00	0.00
800.0	8.54	284.29	796.5	14.2	-55.7	-5.7	0.00	0.00	0.00
900.0	8.54	284.29	895.4	17.8	-70.1	-7.2	0.00	0.00	0.00
1,000.0	8.54	284.29	994.3	21.5	-84.5	-8.7	0.00	0.00	0.00
1,100.0	8.54	284.29	1,093.2	25.2	-98.9	-10.1	0.00	0.00	0.00
1,200.0	8.54	284.29	1,192.1	28.8	-113.3	-11.6	0.00	0.00	0.00
1,300.0	8.54	284.29	1,291.0	32.5	-127.7	-13.1	0.00	0.00	0.00
1,400.0	8.54	284.29	1,389.8	36.2	-142.1	-14.6	0.00	0.00	0.00
1,500.0	8.54	284.29	1,488.7	39.8	-156.4	-16.1	0.00	0.00	0.00
1,600.0	8.54	284.29	1,587.6	43.5	-170.8	-17.5	0.00	0.00	0.00
1,700.0	8.54	284.29	1,686.5	47.2	-185.2	-19.0	0.00	0.00	0.00
1,800.0	8.54	284.29	1,785.4	50.8	-199.6	-20.5	0.00	0.00	0.00
1,900.0	8.54	284.29	1,884.3	54.5	-214.0	-22.0	0.00	0.00	0.00
2,000.0	8.54	284.29	1,983.2	58.2	-228.4	-23.4	0.00	0.00	0.00
2,100.0	8.54	284.29	2,082.1	61.8	-242.8	-24.9	0.00	0.00	0.00
2,200.0	8.54	284.29	2,181.0	65.5	-257.2	-26.4	0.00	0.00	0.00
2,300.0	8.54	284.29	2,279.9	69.2	-271.6	-27.9	0.00	0.00	0.00
2,400.0	8.54	284.29	2,378.8	72.8	-286.0	-29.4	0.00	0.00	0.00
2,500.0	8.54	284.29	2,477.6	76.5	-300.4	-30.8	0.00	0.00	0.00
2,600.0	8.54	284.29	2,576.5	80.2	-314.8	-32.3	0.00	0.00	0.00
2,700.0	8.54	284.29	2,675.4	83.8	-329.2	-33.8	0.00	0.00	0.00
2,800.0	8.54	284.29	2,774.3	87.5	-343.6	-35.3	0.00	0.00	0.00
2,900.0	8.54	284.29	2,873.2	91.2	-358.0	-36.7	0.00	0.00	0.00
3,000.0	8.54	284.29	2,972.1	94.8	-372.4	-38.2	0.00	0.00	0.00
3,100.0	8.54	284.29	3,071.0	98.5	-386.8	-39.7	0.00	0.00	0.00
3,200.0	8.54	284.29	3,169.9	102.2	-401.2	-41.2	0.00	0.00	0.00
3,300.0	8.54	284.29	3,268.8	105.8	-415.6	-42.7	0.00	0.00	0.00
3,400.0	8.54	284.29	3,367.7	109.5	-430.0	-44.1	0.00	0.00	0.00
3,500.0	8.54	284.29	3,466.5	113.2	-444.3	-45.6	0.00	0.00	0.00
3,600.0	8.54	284.29	3,565.4	116.8	-458.7	-47.1	0.00	0.00	0.00
3,700.0	8.54	284.29	3,664.3	120.5	-473.1	-48.6	0.00	0.00	0.00
3,800.0	8.54	284.29	3,763.2	124.2	-487.5	-50.0	0.00	0.00	0.00
3,900.0	8.54	284.29	3,862.1	127.8	-501.9	-51.5	0.00	0.00	0.00
4,000.0	8.54	284.29	3,961.0	131.5	-516.3	-53.0	0.00	0.00	0.00
4,100.0	8.54	284.29	4,059.9	135.2	-530.7	-54.5	0.00	0.00	0.00
4,200.0	8.54	284.29	4,158.8	138.8	-545.1	-56.0	0.00	0.00	0.00
4,300.0	8.54	284.29	4,257.7	142.5	-559.5	-57.4	0.00	0.00	0.00
4,400.0	8.54	284.29	4,356.6	146.2	-573.9	-58.9	0.00	0.00	0.00
4,500.0	8.54	284.29	4,455.5	149.8	-588.3	-60.4	0.00	0.00	0.00
4,600.0	8.54	284.29	4,554.3	153.5	-602.7	-61.9	0.00	0.00	0.00
4,700.0	8.54	284.29	4,653.2	157.1	-617.1	-63.3	0.00	0.00	0.00
4,800.0	8.54	284.29	4,752.1	160.8	-631.5	-64.8	0.00	0.00	0.00
4,900.0	8.54	284.29	4,851.0	164.5	-645.9	-66.3	0.00	0.00	0.00
5,000.0	8.54	284.29	4,949.9	168.1	-660.3	-67.8	0.00	0.00	0.00
5,024.8	8.54	284.29	4,974.4	169.1	-663.8	-68.1	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Company:	Verdad Oil & Gas Corporation	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**North Reference:**	True
Well:	Young 01N-65W-28-1C	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-29-14)		

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)
Start Drop -2.00									
5,100.0	7.04	284.29	5,048.9	171.6	-673.7	-69.2	2.00	-2.00	0.00
5,200.0	5.04	284.29	5,148.4	174.2	-683.9	-70.2	2.00	-2.00	0.00
5,300.0	3.04	284.29	5,248.1	175.9	-690.7	-70.9	2.00	-2.00	0.00
5,400.0	1.04	284.29	5,348.1	176.8	-694.2	-71.3	2.00	-2.00	0.00
5,451.9	0.00	0.00	5,400.0	176.9	-694.6	-71.3	2.00	-2.00	0.00
5,500.0	0.00	0.00	5,448.1	176.9	-694.6	-71.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,548.1	176.9	-694.6	-71.3	0.00	0.00	0.00
5,700.0	0.00	0.00	5,648.1	176.9	-694.6	-71.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,748.1	176.9	-694.6	-71.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,848.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,948.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,100.0	0.00	0.00	6,048.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,200.0	0.00	0.00	6,148.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,248.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,348.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,448.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,548.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,648.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,748.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,848.1	176.9	-694.6	-71.3	0.00	0.00	0.00
6,999.9	0.00	0.00	6,948.0	176.9	-694.6	-71.3	0.00	0.00	0.00
KOP #2 - Start Build 11.00									
7,000.0	0.00	180.00	6,948.1	176.9	-694.6	-71.3	0.00	0.00	0.00
7,100.0	11.01	180.00	7,047.4	167.3	-694.6	-61.8	11.01	11.01	0.00
7,200.0	22.01	180.00	7,143.2	139.0	-694.6	-33.8	11.00	11.00	0.00
7,300.0	33.01	180.00	7,231.7	92.8	-694.6	11.8	11.00	11.00	0.00
7,400.0	44.01	180.00	7,309.9	30.7	-694.6	73.3	11.00	11.00	0.00
7,500.0	55.01	180.00	7,374.7	-45.3	-694.6	148.4	11.00	11.00	0.00
7,600.0	66.01	180.00	7,423.9	-132.2	-694.6	234.3	11.00	11.00	0.00
7,700.0	77.01	180.00	7,455.5	-226.9	-694.6	327.9	11.00	11.00	0.00
7,800.0	88.01	180.00	7,468.6	-325.8	-694.6	425.8	11.00	11.00	0.00
7,819.9	90.19	180.00	7,468.9	-345.7	-694.6	445.5	11.00	11.00	0.00
7"									
7,900.0	90.20	180.00	7,468.6	-425.8	-694.6	524.7	0.01	0.01	0.00
8,000.0	90.20	180.00	7,468.2	-525.8	-694.6	623.6	0.00	0.00	0.00
8,100.0	90.20	180.00	7,467.9	-625.8	-694.6	722.5	0.00	0.00	0.00
8,200.0	90.20	180.00	7,467.5	-725.8	-694.6	821.3	0.00	0.00	0.00
8,300.0	90.20	180.00	7,467.2	-825.8	-694.6	920.2	0.00	0.00	0.00
8,400.0	90.20	180.00	7,466.8	-925.8	-694.6	1,019.1	0.00	0.00	0.00
8,500.0	90.20	180.00	7,466.5	-1,025.8	-694.6	1,118.0	0.00	0.00	0.00
8,600.0	90.20	180.00	7,466.1	-1,125.8	-694.6	1,216.9	0.00	0.00	0.00
8,700.0	90.20	180.00	7,465.8	-1,225.8	-694.6	1,315.7	0.00	0.00	0.00
8,800.0	90.20	180.00	7,465.4	-1,325.8	-694.6	1,414.6	0.00	0.00	0.00
8,900.0	90.20	180.00	7,465.1	-1,425.8	-694.6	1,513.5	0.00	0.00	0.00
9,000.0	90.20	180.00	7,464.7	-1,525.8	-694.6	1,612.4	0.00	0.00	0.00
9,100.0	90.20	180.00	7,464.4	-1,625.8	-694.6	1,711.3	0.00	0.00	0.00
9,200.0	90.20	180.00	7,464.0	-1,725.8	-694.6	1,810.1	0.00	0.00	0.00
9,300.0	90.20	180.00	7,463.7	-1,825.8	-694.6	1,909.0	0.00	0.00	0.00
9,400.0	90.20	180.00	7,463.4	-1,925.8	-694.6	2,007.9	0.00	0.00	0.00
9,500.0	90.20	180.00	7,463.0	-2,025.8	-694.6	2,106.8	0.00	0.00	0.00
9,600.0	90.20	180.00	7,462.7	-2,125.8	-694.6	2,205.7	0.00	0.00	0.00
9,700.0	90.20	180.00	7,462.3	-2,225.8	-694.6	2,304.5	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Company:	Verdad Oil & Gas Corporation	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**North Reference:**	True
Well:	Young 01N-65W-28-1C	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-29-14)		

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)
9,800.0	90.20	180.00	7,462.0	-2,325.8	-694.6	2,403.4	0.00	0.00	0.00
9,900.0	90.20	180.00	7,461.6	-2,425.8	-694.6	2,502.3	0.00	0.00	0.00
10,000.0	90.20	180.00	7,461.3	-2,525.8	-694.6	2,601.2	0.00	0.00	0.00
10,100.0	90.20	180.00	7,460.9	-2,625.8	-694.6	2,700.1	0.00	0.00	0.00
10,200.0	90.20	180.00	7,460.6	-2,725.8	-694.6	2,798.9	0.00	0.00	0.00
10,300.0	90.20	180.00	7,460.2	-2,825.8	-694.6	2,897.8	0.00	0.00	0.00
10,400.0	90.20	180.00	7,459.9	-2,925.8	-694.6	2,996.7	0.00	0.00	0.00
10,500.0	90.20	180.00	7,459.5	-3,025.8	-694.6	3,095.6	0.00	0.00	0.00
10,600.0	90.20	180.00	7,459.2	-3,125.8	-694.6	3,194.5	0.00	0.00	0.00
10,700.0	90.20	180.00	7,458.8	-3,225.8	-694.6	3,293.4	0.00	0.00	0.00
10,800.0	90.20	180.00	7,458.5	-3,325.8	-694.6	3,392.2	0.00	0.00	0.00
10,900.0	90.20	180.00	7,458.1	-3,425.8	-694.6	3,491.1	0.00	0.00	0.00
11,000.0	90.20	180.00	7,457.8	-3,525.8	-694.6	3,590.0	0.00	0.00	0.00
11,100.0	90.20	180.00	7,457.4	-3,625.8	-694.6	3,688.9	0.00	0.00	0.00
11,200.0	90.20	180.00	7,457.1	-3,725.8	-694.6	3,787.8	0.00	0.00	0.00
11,300.0	90.20	180.00	7,456.7	-3,825.8	-694.6	3,886.6	0.00	0.00	0.00
11,400.0	90.20	180.00	7,456.4	-3,925.8	-694.6	3,985.5	0.00	0.00	0.00
11,500.0	90.20	180.00	7,456.0	-4,025.8	-694.6	4,084.4	0.00	0.00	0.00
11,600.0	90.20	180.00	7,455.7	-4,125.8	-694.6	4,183.3	0.00	0.00	0.00
11,700.0	90.20	180.00	7,455.3	-4,225.8	-694.6	4,282.2	0.00	0.00	0.00
11,800.0	90.20	180.00	7,455.0	-4,325.8	-694.6	4,381.0	0.00	0.00	0.00
11,900.0	90.20	180.00	7,454.6	-4,425.8	-694.6	4,479.9	0.00	0.00	0.00
12,000.0	90.20	180.00	7,454.3	-4,525.8	-694.6	4,578.8	0.00	0.00	0.00
12,078.8	90.20	180.00	7,454.0	-4,604.6	-694.6	4,656.7	0.00	0.00	0.00

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
BHL 460'FSL & 2050'I - plan hits target center - Point	0.00	0.00	7,454.0	-4,604.6	-694.6	1,249,909.48	3,233,308.46	40.016380	-104.667000
SHL 230'FNL & 1380' - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,254,520.25	3,233,959.66	40.029020	-104.664520

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,819.9	7,468.9	7"	7	7-1/2

Database:	Landmark	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Company:	Verdad Oil & Gas Corporation	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**North Reference:**	True
Well:	Young 01N-65W-28-1C	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-29-14)		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
200.0	200.0	0.0	0.0	KOP - Start Build 2.00
5,024.8	4,974.5	7.8	-30.8	Start Drop -2.00
6,999.9	6,948.0	169.1	-663.8	KOP #2 - Start Build 11.00
12,078.8	7,454.0	176.9	-694.6	TD at 12078.8

ENSIGN
Directional

Verdad Oil & Gas Corporation

SEC.28-T1N-R65W
Young 01N-65W-28 Pad Sec.28-T1N-R65W
Young 01N-65W-28-1C

Wellbore #1
Plan #1 (8-29-14)

Anticollision Report

11 September, 2014

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Reference Plan #1 (8-29-14)

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** 9/11/2014

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,078.8	Plan #1 (8-29-14) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Existing Wells Sec.28-T1N-R65W						
Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1	8,603.5	7,443.1	745.1	568.5	4.220	CC, ES
Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1	8,700.0	7,442.8	751.3	573.2	4.220	SF
Neckien 1 (SI) - Wellbore #1 - Wellbore #1	11,521.4	7,426.9	560.2	331.9	2.454	CC, ES, SF
Young 01N-65W-28 Pad Sec.28-T1N-R65W						
Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14	200.0	200.0	14.0	13.3	20.766	CC, ES
Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14	12,078.8	11,855.7	268.0	146.1	2.199	SF
Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14	200.0	201.0	28.0	27.3	41.393	CC, ES
Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14	12,078.8	11,846.9	392.1	237.3	2.532	SF
Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14	200.0	201.0	44.8	44.1	66.229	CC, ES
Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14	12,078.8	11,839.8	538.8	371.9	3.228	SF
Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)	200.0	202.0	58.8	58.1	86.638	CC, ES
Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)	12,078.8	12,039.5	661.0	480.9	3.669	SF
Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14)	200.0	202.0	75.6	74.9	111.392	CC, ES
Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14)	12,078.8	11,827.1	852.8	677.8	4.875	SF
Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14)	200.0	203.0	89.6	88.9	131.584	CC, ES
Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14)	7,100.0	7,043.0	994.1	962.6	31.592	SF
Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14)	200.0	203.0	103.6	102.9	152.144	CC, ES
Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14)	1,300.0	1,288.1	234.7	229.0	41.229	SF
Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14)	200.0	204.0	120.4	119.7	176.235	CC, ES
Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14)	1,200.0	1,182.4	241.0	235.8	46.244	SF

Offset Design Existing Wells Sec.28-T1N-R65W - Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 8100-UNKNOWN **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,000.0	7,468.2	7,445.2	7,445.2	22.8	148.9	-90.16	-1,129.3	50.4	958.8	790.1	168.67	5.684	
8,100.0	7,467.9	7,444.9	7,444.9	23.6	148.9	-90.14	-1,129.3	50.4	899.2	729.5	169.74	5.298	
8,200.0	7,467.5	7,444.5	7,444.5	24.6	148.9	-90.11	-1,129.3	50.4	847.3	676.3	170.92	4.957	
8,300.0	7,467.2	7,444.2	7,444.2	25.8	148.9	-90.08	-1,129.3	50.4	804.5	632.3	172.21	4.672	
8,400.0	7,466.8	7,443.8	7,443.8	27.0	148.9	-90.05	-1,129.3	50.4	772.3	598.8	173.57	4.450	
8,500.0	7,466.5	7,443.5	7,443.5	28.3	148.9	-90.03	-1,129.3	50.4	752.2	577.2	175.00	4.298	
8,600.0	7,466.1	7,443.1	7,443.1	29.7	148.9	-90.00	-1,129.3	50.4	745.1	568.6	176.49	4.221	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Wells Sec.28-T1N-R65W - Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 8100-UNKNOWN

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8,603.5	7,466.1	7,443.1	7,443.1	29.7	148.9	-90.00	-1,129.3	50.4	745.1	568.5	176.55	4.220	CC, ES
8,700.0	7,465.8	7,442.8	7,442.8	31.1	148.9	-89.97	-1,129.3	50.4	751.3	573.2	178.03	4.220	SF
8,800.0	7,465.4	7,442.4	7,442.4	32.6	148.8	-89.95	-1,129.3	50.4	770.5	590.9	179.61	4.290	
8,900.0	7,465.1	7,442.1	7,442.1	34.2	148.8	-89.92	-1,129.3	50.4	801.9	620.7	181.23	4.425	
9,000.0	7,464.7	7,441.7	7,441.7	35.7	148.8	-89.89	-1,129.3	50.4	844.0	661.1	182.87	4.615	
9,100.0	7,464.4	7,441.4	7,441.4	37.3	148.8	-89.87	-1,129.3	50.4	895.4	710.8	184.54	4.852	
9,200.0	7,464.0	7,441.0	7,441.0	39.0	148.8	-89.84	-1,129.3	50.4	954.4	768.2	186.24	5.125	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Existing Wells Sec.28-T1N-R65W - Neckien 1 (SI) - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 ft

Survey Program: 8061-UNKNOWN

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,700.0	7,458.8	7,429.8	7,429.8	65.3	148.6	-90.29	-4,047.2	-134.4	994.3	781.2	213.02	4.667	
10,800.0	7,458.5	7,429.5	7,429.5	67.2	148.6	-90.26	-4,047.2	-134.4	913.4	698.5	214.86	4.251	
10,900.0	7,458.1	7,429.1	7,429.1	69.0	148.6	-90.22	-4,047.2	-134.4	836.7	619.9	216.71	3.861	
11,000.0	7,457.8	7,428.8	7,428.8	70.8	148.6	-90.19	-4,047.2	-134.4	765.3	546.8	218.56	3.502	
11,100.0	7,457.4	7,428.4	7,428.4	72.7	148.6	-90.15	-4,047.2	-134.4	701.0	480.6	220.41	3.180	
11,200.0	7,457.1	7,428.1	7,428.1	74.5	148.6	-90.11	-4,047.2	-134.4	645.9	423.6	222.27	2.906	
11,300.0	7,456.7	7,427.7	7,427.7	76.4	148.6	-90.08	-4,047.2	-134.4	602.4	378.2	224.13	2.688	
11,400.0	7,456.4	7,427.4	7,427.4	78.2	148.5	-90.04	-4,047.2	-134.4	573.2	347.2	225.99	2.536	
11,500.0	7,456.0	7,427.0	7,427.0	80.1	148.5	-90.01	-4,047.2	-134.4	560.6	332.8	227.85	2.460	
11,521.4	7,455.9	7,426.9	7,426.9	80.5	148.5	-90.00	-4,047.2	-134.4	560.2	331.9	228.25	2.454	CC, ES, SF
11,600.0	7,455.7	7,426.7	7,426.7	81.9	148.5	-89.97	-4,047.2	-134.4	565.7	336.0	229.72	2.462	
11,700.0	7,455.3	7,426.3	7,426.3	83.8	148.5	-89.94	-4,047.2	-134.4	588.0	356.4	231.58	2.539	
11,800.0	7,455.0	7,426.0	7,426.0	85.6	148.5	-89.90	-4,047.2	-134.4	625.6	392.2	233.45	2.680	
11,900.0	7,454.6	7,425.6	7,425.6	87.5	148.5	-89.86	-4,047.2	-134.4	676.1	440.8	235.32	2.873	
12,000.0	7,454.3	7,425.3	7,425.3	89.4	148.5	-89.83	-4,047.2	-134.4	736.8	499.6	237.19	3.106	
12,078.8	7,454.0	7,425.0	7,425.0	90.8	148.5	-89.80	-4,047.2	-134.4	790.2	551.6	238.67	3.311	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.98	0.0	14.0	14.0	14.0	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	89.98	0.0	14.0	14.0	13.8	0.22	62.297	
200.0	200.0	200.0	200.0	0.3	0.3	89.98	0.0	14.0	14.0	13.3	0.67	20.766	CC, ES
300.0	300.0	300.0	300.0	0.6	0.6	167.26	0.0	14.0	15.7	14.6	1.12	13.986	
400.0	399.8	399.8	399.8	0.8	0.8	170.42	0.0	14.0	20.8	19.3	1.57	13.239	
500.0	499.5	500.4	500.4	1.0	1.0	172.58	0.5	12.3	27.8	25.7	2.02	13.770	
600.0	598.7	601.3	601.1	1.3	1.2	173.50	2.2	7.3	34.7	32.2	2.45	14.151	
700.0	697.6	702.4	701.8	1.6	1.5	173.65	4.9	-1.2	40.7	37.8	2.90	14.052	
800.0	796.5	803.3	802.0	2.0	1.7	173.03	8.7	-12.7	43.6	40.3	3.36	12.987	
900.0	895.4	903.3	901.1	2.3	2.0	172.31	12.7	-24.9	45.8	42.0	3.83	11.960	
1,000.0	994.3	1,003.2	1,000.3	2.7	2.3	171.66	16.6	-37.0	48.1	43.7	4.31	11.145	
1,100.0	1,093.2	1,103.2	1,099.4	3.0	2.6	171.07	20.6	-49.2	50.3	45.5	4.80	10.483	
1,200.0	1,192.1	1,203.2	1,198.6	3.4	3.0	170.53	24.5	-61.4	52.5	47.2	5.28	9.936	
1,300.0	1,291.0	1,303.2	1,297.8	3.7	3.3	170.03	28.5	-73.5	54.7	48.9	5.77	9.477	
1,400.0	1,389.8	1,403.1	1,396.9	4.1	3.6	169.57	32.5	-85.7	56.9	50.7	6.27	9.088	
1,500.0	1,488.7	1,503.1	1,496.1	4.5	3.9	169.15	36.4	-97.8	59.2	52.4	6.76	8.753	
1,600.0	1,587.6	1,603.1	1,595.2	4.8	4.2	168.75	40.4	-110.0	61.4	54.2	7.26	8.461	
1,700.0	1,686.5	1,703.1	1,694.4	5.2	4.6	168.38	44.3	-122.1	63.6	55.9	7.76	8.206	
1,800.0	1,785.4	1,803.0	1,793.5	5.5	4.9	168.04	48.3	-134.3	65.9	57.6	8.26	7.980	
1,900.0	1,884.3	1,903.0	1,892.7	5.9	5.2	167.72	52.2	-146.5	68.1	59.4	8.76	7.779	
2,000.0	1,983.2	2,003.0	1,991.8	6.2	5.5	167.43	56.2	-158.6	70.4	61.1	9.26	7.599	
2,100.0	2,082.1	2,103.0	2,091.0	6.6	5.9	167.15	60.2	-170.8	72.6	62.9	9.76	7.437	
2,200.0	2,181.0	2,202.9	2,190.1	7.0	6.2	166.88	64.1	-182.9	74.9	64.6	10.27	7.290	
2,300.0	2,279.9	2,302.9	2,289.3	7.3	6.5	166.63	68.1	-195.1	77.1	66.3	10.78	7.157	
2,400.0	2,378.8	2,402.9	2,388.4	7.7	6.8	166.40	72.0	-207.2	79.4	68.1	11.28	7.035	
2,500.0	2,477.6	2,502.8	2,487.6	8.0	7.2	166.18	76.0	-219.4	81.6	69.8	11.79	6.923	
2,600.0	2,576.5	2,602.8	2,586.7	8.4	7.5	165.97	79.9	-231.5	83.9	71.6	12.30	6.820	
2,700.0	2,675.4	2,702.8	2,685.9	8.8	7.8	165.77	83.9	-243.7	86.1	73.3	12.81	6.725	
2,800.0	2,774.3	2,802.8	2,785.1	9.1	8.1	165.58	87.9	-255.9	88.4	75.1	13.32	6.637	
2,900.0	2,873.2	2,902.7	2,884.2	9.5	8.5	165.40	91.8	-268.0	90.6	76.8	13.83	6.556	
3,000.0	2,972.1	3,002.7	2,983.4	9.8	8.8	165.23	95.8	-280.2	92.9	78.6	14.34	6.480	
3,100.0	3,071.0	3,102.7	3,082.5	10.2	9.1	165.07	99.7	-292.3	95.1	80.3	14.85	6.409	
3,200.0	3,169.9	3,202.7	3,181.7	10.6	9.5	164.92	103.7	-304.5	97.4	82.0	15.36	6.343	
3,300.0	3,268.8	3,302.6	3,280.8	10.9	9.8	164.77	107.6	-316.6	99.7	83.8	15.87	6.280	
3,400.0	3,367.7	3,402.6	3,380.0	11.3	10.1	164.63	111.6	-328.8	101.9	85.5	16.38	6.222	
3,500.0	3,466.5	3,502.6	3,479.1	11.6	10.4	164.50	115.6	-341.0	104.2	87.3	16.89	6.167	
3,600.0	3,565.4	3,602.6	3,578.3	12.0	10.8	164.37	119.5	-353.1	106.4	89.0	17.41	6.115	
3,700.0	3,664.3	3,702.5	3,677.4	12.4	11.1	164.24	123.5	-365.3	108.7	90.8	17.92	6.066	
3,800.0	3,763.2	3,802.5	3,776.6	12.7	11.4	164.12	127.4	-377.4	111.0	92.5	18.43	6.020	
3,900.0	3,862.1	3,902.5	3,875.7	13.1	11.8	164.01	131.4	-389.6	113.2	94.3	18.95	5.976	
4,000.0	3,961.0	4,002.5	3,974.9	13.5	12.1	163.90	135.3	-401.7	115.5	96.0	19.46	5.935	
4,100.0	4,059.9	4,102.4	4,074.0	13.8	12.4	163.79	139.3	-413.9	117.8	97.8	19.97	5.895	
4,200.0	4,158.8	4,202.4	4,173.2	14.2	12.7	163.69	143.3	-426.0	120.0	99.5	20.49	5.858	
4,300.0	4,257.7	4,302.4	4,272.4	14.5	13.1	163.60	147.2	-438.2	122.3	101.3	21.00	5.822	
4,400.0	4,356.6	4,402.4	4,371.5	14.9	13.4	163.50	151.2	-450.4	124.5	103.0	21.52	5.788	
4,500.0	4,455.5	4,502.3	4,470.7	15.3	13.7	163.41	155.1	-462.5	126.8	104.8	22.03	5.755	
4,600.0	4,554.3	4,602.3	4,569.8	15.6	14.1	163.32	159.1	-474.7	129.1	106.5	22.55	5.724	
4,700.0	4,653.2	4,702.3	4,669.0	16.0	14.4	163.24	163.1	-486.8	131.3	108.3	23.06	5.694	
4,800.0	4,752.1	4,802.3	4,768.1	16.3	14.7	163.16	167.0	-499.0	133.6	110.0	23.58	5.666	
4,900.0	4,851.0	4,900.0	4,865.1	16.7	15.0	163.11	170.8	-510.7	136.0	112.0	24.08	5.650	
5,000.0	4,949.9	4,996.3	4,960.9	17.1	15.2	163.42	173.8	-519.9	140.9	116.4	24.50	5.753	
5,100.0	5,048.9	5,091.6	5,055.9	17.4	15.4	164.06	175.8	-525.9	148.0	123.1	24.85	5.955	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,148.4	5,186.6	5,150.9	17.6	15.6	164.71	176.8	-529.0	155.0	129.8	25.14	6.164	
5,300.0	5,248.1	5,283.8	5,248.1	17.8	15.7	165.34	176.9	-529.4	161.4	136.0	25.40	6.352	
5,400.0	5,348.1	5,383.7	5,348.1	17.9	15.9	165.67	176.9	-529.4	164.8	139.1	25.67	6.419	
5,500.0	5,448.1	5,483.7	5,448.1	18.1	16.0	90.00	176.9	-529.4	165.3	139.3	25.99	6.357	
5,600.0	5,548.1	5,583.7	5,548.1	18.2	16.2	90.00	176.9	-529.4	165.3	138.9	26.37	6.266	
5,700.0	5,648.1	5,683.7	5,648.1	18.3	16.3	90.00	176.9	-529.4	165.3	138.5	26.75	6.177	
5,800.0	5,748.1	5,783.7	5,748.1	18.5	16.5	90.00	176.9	-529.4	165.3	138.1	27.13	6.090	
5,900.0	5,848.1	5,883.7	5,848.1	18.6	16.7	90.00	176.9	-529.4	165.3	137.7	27.52	6.005	
6,000.0	5,948.1	5,983.7	5,948.1	18.8	16.8	90.00	176.9	-529.4	165.3	137.3	27.91	5.922	
6,100.0	6,048.1	6,083.7	6,048.1	18.9	17.0	90.00	176.9	-529.4	165.3	137.0	28.29	5.841	
6,200.0	6,148.1	6,183.7	6,148.1	19.1	17.2	90.00	176.9	-529.4	165.3	136.6	28.68	5.761	
6,300.0	6,248.1	6,283.7	6,248.1	19.2	17.4	90.00	176.9	-529.4	165.3	136.2	29.08	5.684	
6,400.0	6,348.1	6,383.7	6,348.1	19.4	17.5	90.00	176.9	-529.4	165.3	135.8	29.47	5.608	
6,500.0	6,448.1	6,483.7	6,448.1	19.6	17.7	90.00	176.9	-529.4	165.3	135.4	29.86	5.533	
6,600.0	6,548.1	6,583.7	6,548.1	19.7	17.9	90.00	176.9	-529.4	165.3	135.0	30.26	5.461	
6,700.0	6,648.1	6,683.7	6,648.1	19.9	18.0	90.00	176.9	-529.4	165.3	134.6	30.66	5.390	
6,765.8	6,713.9	6,749.5	6,713.9	20.0	18.2	90.00	176.9	-529.4	165.3	134.3	30.92	5.344	
6,800.0	6,748.1	6,783.7	6,748.1	20.0	18.2	90.01	176.9	-529.4	165.3	134.2	31.06	5.321	
6,822.8	6,770.8	6,806.5	6,770.8	20.1	18.3	90.27	176.1	-529.4	165.3	134.1	31.12	5.310	
6,900.0	6,848.1	6,882.3	6,845.9	20.2	18.3	93.61	166.5	-529.4	165.6	134.4	31.18	5.311	
6,999.9	6,948.0	6,973.9	6,933.6	20.3	18.4	102.43	140.5	-529.4	169.8	138.6	31.27	5.431	
7,100.0	7,047.4	7,058.2	7,009.2	20.5	18.5	-66.99	103.3	-529.4	181.3	149.7	31.63	5.733	
7,200.0	7,143.2	7,138.8	7,074.9	20.6	18.5	-58.38	56.8	-529.4	196.8	164.9	31.87	6.175	
7,300.0	7,231.7	7,216.6	7,130.8	20.6	18.6	-51.71	2.8	-529.4	213.5	182.0	31.49	6.781	
7,400.0	7,309.9	7,292.2	7,176.9	20.7	18.6	-46.75	-57.1	-529.4	229.5	199.3	30.21	7.597	
7,500.0	7,374.7	7,366.2	7,213.2	20.7	18.7	-43.19	-121.5	-529.4	243.3	215.0	28.37	8.576	
7,600.0	7,423.9	7,439.1	7,239.6	20.9	18.9	-40.78	-189.4	-529.4	254.0	227.7	26.32	9.650	
7,700.0	7,455.5	7,511.3	7,256.2	21.1	19.2	-39.34	-259.6	-529.4	261.0	236.4	24.60	10.611	
7,800.0	7,468.6	7,583.1	7,262.9	21.5	19.5	-38.78	-331.0	-529.4	263.9	240.1	23.72	11.125	
7,900.0	7,468.6	7,677.0	7,262.7	22.0	20.1	-38.75	-424.9	-529.4	264.0	239.5	24.47	10.787	
8,000.0	7,468.2	7,777.0	7,262.2	22.8	21.0	-38.73	-524.9	-529.4	264.1	238.4	25.67	10.287	
8,100.0	7,467.9	7,877.0	7,261.8	23.6	22.0	-38.72	-624.9	-529.4	264.2	237.1	27.08	9.756	
8,200.0	7,467.5	7,977.0	7,261.3	24.6	23.1	-38.70	-724.9	-529.4	264.3	235.6	28.66	9.221	
8,300.0	7,467.2	8,077.0	7,260.8	25.8	24.3	-38.69	-824.9	-529.4	264.4	234.0	30.40	8.698	
8,400.0	7,466.8	8,177.0	7,260.3	27.0	25.6	-38.67	-924.9	-529.4	264.5	232.2	32.25	8.201	
8,500.0	7,466.5	8,277.0	7,259.9	28.3	27.0	-38.65	-1,024.9	-529.4	264.6	230.4	34.21	7.734	
8,600.0	7,466.1	8,377.0	7,259.4	29.7	28.4	-38.64	-1,124.9	-529.4	264.7	228.4	36.26	7.300	
8,700.0	7,465.8	8,477.0	7,258.9	31.1	30.0	-38.62	-1,224.9	-529.4	264.8	226.4	38.38	6.899	
8,800.0	7,465.4	8,577.0	7,258.5	32.6	31.5	-38.60	-1,324.9	-529.4	264.9	224.3	40.56	6.531	
8,900.0	7,465.1	8,677.0	7,258.0	34.2	33.1	-38.59	-1,424.9	-529.4	265.0	222.2	42.79	6.193	
9,000.0	7,464.7	8,777.0	7,257.5	35.7	34.7	-38.57	-1,524.9	-529.4	265.1	220.0	45.06	5.882	
9,100.0	7,464.4	8,877.0	7,257.0	37.3	36.4	-38.55	-1,624.9	-529.4	265.2	217.8	47.37	5.597	
9,200.0	7,464.0	8,977.0	7,256.6	39.0	38.0	-38.54	-1,724.9	-529.4	265.2	215.5	49.72	5.335	
9,300.0	7,463.7	9,077.0	7,256.1	40.6	39.7	-38.52	-1,824.9	-529.4	265.3	213.3	52.09	5.094	
9,400.0	7,463.4	9,177.0	7,255.6	42.3	41.4	-38.50	-1,924.9	-529.4	265.4	211.0	54.48	4.872	
9,500.0	7,463.0	9,277.0	7,255.2	44.0	43.2	-38.49	-2,024.9	-529.4	265.5	208.6	56.89	4.667	
9,600.0	7,462.7	9,377.0	7,254.7	45.7	44.9	-38.47	-2,124.9	-529.4	265.6	206.3	59.33	4.478	
9,700.0	7,462.3	9,477.0	7,254.2	47.4	46.7	-38.45	-2,224.8	-529.4	265.7	204.0	61.77	4.302	
9,800.0	7,462.0	9,577.0	7,253.7	49.2	48.5	-38.44	-2,324.8	-529.4	265.8	201.6	64.23	4.138	
9,900.0	7,461.6	9,677.0	7,253.3	50.9	50.2	-38.42	-2,424.8	-529.4	265.9	199.2	66.70	3.987	
10,000.0	7,461.3	9,777.0	7,252.8	52.7	52.0	-38.41	-2,524.8	-529.4	266.0	196.8	69.19	3.845	
10,100.0	7,460.9	9,877.0	7,252.3	54.5	53.8	-38.39	-2,624.8	-529.4	266.1	194.4	71.68	3.713	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,200.0	7,460.6	9,977.0	7,251.9	56.3	55.6	-38.37	-2,724.8	-529.4	266.2	192.0	74.18	3.589	
10,300.0	7,460.2	10,077.0	7,251.4	58.1	57.4	-38.36	-2,824.8	-529.4	266.3	189.6	76.69	3.473	
10,400.0	7,459.9	10,177.0	7,250.9	59.9	59.3	-38.34	-2,924.8	-529.4	266.4	187.2	79.20	3.364	
10,500.0	7,459.5	10,277.0	7,250.4	61.7	61.1	-38.32	-3,024.8	-529.4	266.5	184.8	81.72	3.261	
10,600.0	7,459.2	10,377.0	7,250.0	63.5	62.9	-38.31	-3,124.8	-529.4	266.6	182.3	84.24	3.165	
10,700.0	7,458.8	10,477.0	7,249.5	65.3	64.8	-38.29	-3,224.8	-529.4	266.7	179.9	86.77	3.073	
10,800.0	7,458.5	10,577.0	7,249.0	67.2	66.6	-38.28	-3,324.8	-529.4	266.8	177.5	89.30	2.987	
10,900.0	7,458.1	10,677.0	7,248.6	69.0	68.5	-38.26	-3,424.8	-529.4	266.9	175.0	91.84	2.906	
11,000.0	7,457.8	10,777.0	7,248.1	70.8	70.3	-38.24	-3,524.8	-529.4	267.0	172.6	94.38	2.829	
11,100.0	7,457.4	10,877.0	7,247.6	72.7	72.2	-38.23	-3,624.8	-529.4	267.1	170.1	96.92	2.756	
11,200.0	7,457.1	10,977.0	7,247.1	74.5	74.0	-38.21	-3,724.8	-529.4	267.2	167.7	99.47	2.686	
11,300.0	7,456.7	11,077.0	7,246.7	76.4	75.9	-38.19	-3,824.8	-529.4	267.3	165.2	102.01	2.620	
11,400.0	7,456.4	11,177.0	7,246.2	78.2	77.7	-38.18	-3,924.8	-529.4	267.4	162.8	104.56	2.557	
11,500.0	7,456.0	11,277.0	7,245.7	80.1	79.6	-38.16	-4,024.8	-529.4	267.5	160.3	107.11	2.497	
11,600.0	7,455.7	11,377.0	7,245.3	81.9	81.5	-38.15	-4,124.8	-529.4	267.5	157.9	109.66	2.440	
11,700.0	7,455.3	11,477.0	7,244.8	83.8	83.3	-38.13	-4,224.8	-529.4	267.6	155.4	112.22	2.385	
11,800.0	7,455.0	11,577.0	7,244.3	85.6	85.2	-38.11	-4,324.8	-529.4	267.7	153.0	114.77	2.333	
11,900.0	7,454.6	11,677.0	7,243.8	87.5	87.1	-38.10	-4,424.8	-529.4	267.8	150.5	117.33	2.283	
12,000.0	7,454.3	11,777.0	7,243.4	89.4	88.9	-38.08	-4,524.8	-529.4	267.9	148.1	119.88	2.235	
12,078.8	7,454.0	11,855.7	7,243.0	90.8	90.4	-38.07	-4,603.6	-529.4	268.0	146.1	121.90	2.199	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	90.02	0.0	28.0	28.0	28.0	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	90.02	0.0	28.0	28.0	27.8	0.23	123.360	
200.0	200.0	201.0	201.0	0.3	0.3	90.02	0.0	28.0	28.0	27.3	0.68	41.393	CC, ES
300.0	300.0	301.0	301.0	0.6	0.6	166.55	0.0	28.0	29.7	28.6	1.12	26.407	
400.0	399.8	400.8	400.8	0.8	0.8	168.53	0.0	28.0	34.8	33.2	1.58	22.090	
500.0	499.5	500.5	500.5	1.0	1.0	170.80	0.0	28.0	43.4	41.4	2.03	21.354	
600.0	598.7	599.7	599.7	1.3	1.2	172.78	0.0	28.0	55.5	53.0	2.49	22.268	
700.0	697.6	698.6	698.6	1.6	1.5	174.28	0.0	28.0	70.1	67.1	2.94	23.820	
800.0	796.5	797.5	797.5	2.0	1.7	175.28	0.0	28.0	84.9	81.5	3.40	24.992	
900.0	895.4	896.4	896.4	2.3	1.9	175.99	0.0	28.0	99.7	95.8	3.85	25.870	
1,000.0	994.3	995.3	995.3	2.7	2.1	176.51	0.0	28.0	114.5	110.2	4.31	26.549	
1,100.0	1,093.2	1,098.5	1,098.4	3.0	2.3	176.75	0.7	26.5	127.8	123.0	4.77	26.777	
1,200.0	1,192.1	1,202.7	1,202.5	3.4	2.6	176.59	2.9	21.5	137.5	132.3	5.23	26.316	
1,300.0	1,291.0	1,307.5	1,306.9	3.7	2.8	176.10	6.8	13.0	143.8	138.1	5.69	25.263	
1,400.0	1,389.8	1,409.8	1,408.5	4.1	3.1	175.36	11.8	1.8	146.9	140.8	6.16	23.865	
1,500.0	1,488.7	1,509.7	1,507.6	4.5	3.3	174.62	16.9	-9.5	149.8	143.2	6.63	22.602	
1,600.0	1,587.6	1,609.7	1,606.8	4.8	3.6	173.91	22.0	-20.8	152.7	145.6	7.10	21.496	
1,700.0	1,686.5	1,709.6	1,706.0	5.2	3.9	173.22	27.1	-32.1	155.6	148.0	7.58	20.520	
1,800.0	1,785.4	1,809.6	1,805.2	5.5	4.2	172.57	32.2	-43.4	158.5	150.4	8.06	19.653	
1,900.0	1,884.3	1,909.5	1,904.3	5.9	4.5	171.93	37.3	-54.7	161.4	152.9	8.55	18.878	
2,000.0	1,983.2	2,009.5	2,003.5	6.2	4.8	171.32	42.4	-66.0	164.4	155.3	9.04	18.182	
2,100.0	2,082.1	2,109.4	2,102.7	6.6	5.1	170.73	47.5	-77.3	167.3	157.8	9.53	17.554	
2,200.0	2,181.0	2,209.3	2,201.8	7.0	5.4	170.16	52.6	-88.6	170.3	160.3	10.03	16.984	
2,300.0	2,279.9	2,309.3	2,301.0	7.3	5.7	169.61	57.7	-99.9	173.3	162.8	10.53	16.465	
2,400.0	2,378.8	2,409.2	2,400.2	7.7	6.0	169.08	62.8	-111.1	176.3	165.3	11.03	15.990	
2,500.0	2,477.6	2,509.2	2,499.4	8.0	6.3	168.57	67.9	-122.4	179.4	167.8	11.53	15.554	
2,600.0	2,576.5	2,609.1	2,598.5	8.4	6.6	168.07	73.0	-133.7	182.4	170.4	12.04	15.153	
2,700.0	2,675.4	2,709.0	2,697.7	8.8	6.9	167.59	78.0	-145.0	185.5	172.9	12.55	14.782	
2,800.0	2,774.3	2,809.0	2,796.9	9.1	7.2	167.12	83.1	-156.3	188.5	175.5	13.06	14.439	
2,900.0	2,873.2	2,908.9	2,896.0	9.5	7.5	166.68	88.2	-167.6	191.6	178.1	13.57	14.120	
3,000.0	2,972.1	3,008.9	2,995.2	9.8	7.8	166.24	93.3	-178.9	194.7	180.6	14.09	13.823	
3,100.0	3,071.0	3,108.8	3,094.4	10.2	8.1	165.82	98.4	-190.2	197.8	183.2	14.60	13.546	
3,200.0	3,169.9	3,208.8	3,193.5	10.6	8.5	165.41	103.5	-201.5	201.0	185.8	15.12	13.287	
3,300.0	3,268.8	3,308.7	3,292.7	10.9	8.8	165.01	108.6	-212.8	204.1	188.4	15.65	13.045	
3,400.0	3,367.7	3,408.6	3,391.9	11.3	9.1	164.63	113.7	-224.1	207.2	191.1	16.17	12.817	
3,500.0	3,466.5	3,508.6	3,491.1	11.6	9.4	164.26	118.8	-235.4	210.4	193.7	16.69	12.602	
3,600.0	3,565.4	3,608.5	3,590.2	12.0	9.7	163.90	123.9	-246.7	213.5	196.3	17.22	12.400	
3,700.0	3,664.3	3,708.5	3,689.4	12.4	10.0	163.55	129.0	-258.0	216.7	198.9	17.75	12.209	
3,800.0	3,763.2	3,808.4	3,788.6	12.7	10.4	163.21	134.1	-269.3	219.9	201.6	18.28	12.029	
3,900.0	3,862.1	3,908.3	3,887.7	13.1	10.7	162.87	139.2	-280.5	223.0	204.2	18.81	11.858	
4,000.0	3,961.0	4,008.3	3,986.9	13.5	11.0	162.55	144.3	-291.8	226.2	206.9	19.34	11.697	
4,100.0	4,059.9	4,108.2	4,086.1	13.8	11.3	162.24	149.4	-303.1	229.4	209.5	19.87	11.543	
4,200.0	4,158.8	4,208.2	4,185.2	14.2	11.6	161.94	154.5	-314.4	232.6	212.2	20.41	11.397	
4,300.0	4,257.7	4,308.1	4,284.4	14.5	12.0	161.64	159.6	-325.7	235.8	214.9	20.95	11.258	
4,400.0	4,356.6	4,408.0	4,383.6	14.9	12.3	161.35	164.7	-337.0	239.0	217.5	21.48	11.126	
4,500.0	4,455.5	4,505.4	4,480.2	15.3	12.6	161.10	169.5	-347.8	242.5	220.5	22.00	11.019	
4,600.0	4,554.3	4,600.0	4,574.4	15.6	12.8	161.15	173.2	-356.0	248.2	225.7	22.45	11.056	
4,700.0	4,653.2	4,690.7	4,664.9	16.0	13.0	161.51	175.6	-361.2	256.7	233.9	22.85	11.237	
4,800.0	4,752.1	4,782.6	4,756.7	16.3	13.1	162.15	176.8	-363.8	268.1	244.9	23.22	11.550	
4,900.0	4,851.0	4,877.9	4,852.0	16.7	13.3	163.01	176.9	-364.1	282.0	258.4	23.57	11.964	
5,000.0	4,949.9	4,976.8	4,950.9	17.1	13.4	163.85	176.9	-364.1	296.3	272.3	23.95	12.368	
5,100.0	5,048.9	5,075.8	5,049.9	17.4	13.6	164.62	176.9	-364.1	309.6	285.3	24.34	12.724	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,148.4	5,175.2	5,149.4	17.6	13.8	165.17	176.9	-364.1	319.8	295.1	24.68	12.957	
5,300.0	5,248.1	5,275.0	5,249.1	17.8	14.0	165.52	176.9	-364.1	326.6	301.6	25.01	13.059	
5,400.0	5,348.1	5,374.9	5,349.1	17.9	14.1	165.69	176.9	-364.1	330.1	304.7	25.32	13.036	
5,500.0	5,448.1	5,474.9	5,449.1	18.1	14.3	90.00	176.9	-364.1	330.5	304.9	25.66	12.882	
5,600.0	5,548.1	5,574.9	5,549.1	18.2	14.5	90.00	176.9	-364.1	330.5	304.5	26.05	12.689	
5,700.0	5,648.1	5,674.9	5,649.1	18.3	14.7	90.00	176.9	-364.1	330.5	304.1	26.44	12.502	
5,800.0	5,748.1	5,774.9	5,749.1	18.5	14.9	90.00	176.9	-364.1	330.5	303.7	26.83	12.319	
5,900.0	5,848.1	5,874.9	5,849.1	18.6	15.0	90.00	176.9	-364.1	330.5	303.3	27.22	12.140	
6,000.0	5,948.1	5,974.9	5,949.1	18.8	15.2	90.00	176.9	-364.1	330.5	302.9	27.62	11.966	
6,100.0	6,048.1	6,074.9	6,049.1	18.9	15.4	90.00	176.9	-364.1	330.5	302.5	28.02	11.797	
6,200.0	6,148.1	6,174.9	6,149.1	19.1	15.6	90.00	176.9	-364.1	330.5	302.1	28.42	11.631	
6,300.0	6,248.1	6,274.9	6,249.1	19.2	15.8	90.00	176.9	-364.1	330.5	301.7	28.82	11.469	
6,400.0	6,348.1	6,374.9	6,349.1	19.4	16.0	90.00	176.9	-364.1	330.5	301.3	29.22	11.312	
6,500.0	6,448.1	6,474.9	6,449.1	19.6	16.2	90.00	176.9	-364.1	330.5	300.9	29.62	11.158	
6,600.0	6,548.1	6,574.9	6,549.1	19.7	16.4	90.00	176.9	-364.1	330.5	300.5	30.03	11.007	
6,700.0	6,648.1	6,674.9	6,649.1	19.9	16.6	90.00	176.9	-364.1	330.5	300.1	30.43	10.860	
6,765.5	6,713.5	6,740.3	6,714.5	20.0	16.7	90.00	176.9	-364.1	330.5	299.8	30.70	10.766	
6,800.0	6,748.1	6,774.9	6,749.0	20.0	16.8	90.01	176.9	-364.1	330.5	299.7	30.84	10.718	
6,822.7	6,770.8	6,797.6	6,771.7	20.1	16.8	90.14	176.1	-364.1	330.5	299.6	30.92	10.691	
6,900.0	6,848.1	6,873.5	6,846.9	20.2	16.9	91.81	166.5	-364.1	330.7	299.6	31.07	10.643	
6,999.9	6,948.0	6,965.0	6,934.6	20.3	17.0	96.29	140.5	-364.1	332.8	301.7	31.17	10.679	
7,100.0	7,047.4	7,050.0	7,010.7	20.5	17.0	-77.98	102.9	-364.1	338.8	307.6	31.21	10.855	
7,200.0	7,143.2	7,130.0	7,075.9	20.6	17.1	-72.89	56.8	-364.1	347.3	316.1	31.26	11.113	
7,300.0	7,231.7	7,207.7	7,131.8	20.6	17.1	-68.46	2.8	-364.1	357.1	325.9	31.18	11.454	
7,400.0	7,309.9	7,283.4	7,177.9	20.7	17.2	-64.81	-57.1	-364.1	366.9	336.0	30.86	11.890	
7,500.0	7,374.7	7,357.4	7,214.2	20.7	17.3	-61.96	-121.5	-364.1	375.7	345.3	30.39	12.364	
7,600.0	7,423.9	7,430.3	7,240.6	20.9	17.5	-59.90	-189.4	-364.1	382.7	352.8	29.89	12.805	
7,700.0	7,455.5	7,500.0	7,256.8	21.1	17.8	-58.64	-257.2	-364.1	387.4	357.8	29.57	13.098	
7,800.0	7,468.6	7,574.2	7,263.9	21.5	18.2	-58.10	-331.0	-364.1	389.3	359.6	29.70	13.106	
7,900.0	7,468.6	7,668.1	7,263.7	22.0	18.9	-58.08	-424.9	-364.1	389.4	358.5	30.88	12.612	
8,000.0	7,468.2	7,768.1	7,263.2	22.8	19.8	-58.06	-524.9	-364.1	389.5	357.0	32.48	11.993	
8,100.0	7,467.9	7,868.1	7,262.8	23.6	20.9	-58.05	-624.9	-364.1	389.5	355.2	34.33	11.348	
8,200.0	7,467.5	7,968.1	7,262.3	24.6	22.1	-58.03	-724.9	-364.1	389.6	353.2	36.39	10.706	
8,300.0	7,467.2	8,068.1	7,261.8	25.8	23.4	-58.02	-824.9	-364.1	389.7	351.0	38.63	10.087	
8,400.0	7,466.8	8,168.1	7,261.3	27.0	24.7	-58.00	-924.9	-364.1	389.7	348.7	41.02	9.501	
8,500.0	7,466.5	8,268.1	7,260.9	28.3	26.2	-57.99	-1,024.9	-364.1	389.8	346.2	43.53	8.953	
8,600.0	7,466.1	8,368.1	7,260.4	29.7	27.6	-57.97	-1,124.9	-364.1	389.8	343.7	46.15	8.447	
8,700.0	7,465.8	8,468.1	7,259.9	31.1	29.2	-57.96	-1,224.9	-364.1	389.9	341.1	48.86	7.981	
8,800.0	7,465.4	8,568.1	7,259.5	32.6	30.8	-57.94	-1,324.9	-364.1	390.0	338.3	51.64	7.552	
8,900.0	7,465.1	8,668.1	7,259.0	34.2	32.4	-57.93	-1,424.9	-364.1	390.0	335.6	54.48	7.160	
9,000.0	7,464.7	8,768.1	7,258.5	35.7	34.0	-57.91	-1,524.9	-364.1	390.1	332.7	57.37	6.800	
9,100.0	7,464.4	8,868.1	7,258.0	37.3	35.7	-57.90	-1,624.9	-364.1	390.2	329.9	60.30	6.470	
9,200.0	7,464.0	8,968.1	7,257.6	39.0	37.4	-57.88	-1,724.9	-364.1	390.2	327.0	63.28	6.167	
9,300.0	7,463.7	9,068.1	7,257.1	40.6	39.1	-57.87	-1,824.9	-364.1	390.3	324.0	66.29	5.888	
9,400.0	7,463.4	9,168.1	7,256.6	42.3	40.9	-57.85	-1,924.9	-364.1	390.4	321.0	69.32	5.631	
9,500.0	7,463.0	9,268.1	7,256.2	44.0	42.6	-57.84	-2,024.9	-364.1	390.4	318.0	72.39	5.394	
9,600.0	7,462.7	9,368.1	7,255.7	45.7	44.4	-57.82	-2,124.9	-364.1	390.5	315.0	75.47	5.174	
9,700.0	7,462.3	9,468.1	7,255.2	47.4	46.2	-57.81	-2,224.8	-364.1	390.6	312.0	78.57	4.971	
9,800.0	7,462.0	9,568.1	7,254.7	49.2	48.0	-57.79	-2,324.8	-364.1	390.6	308.9	81.69	4.782	
9,900.0	7,461.6	9,668.1	7,254.3	50.9	49.8	-57.77	-2,424.8	-364.1	390.7	305.9	84.82	4.606	
10,000.0	7,461.3	9,768.1	7,253.8	52.7	51.6	-57.76	-2,524.8	-364.1	390.8	302.8	87.97	4.442	
10,100.0	7,460.9	9,868.1	7,253.3	54.5	53.4	-57.74	-2,624.8	-364.1	390.8	299.7	91.13	4.289	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,200.0	7,460.6	9,968.1	7,252.9	56.3	55.2	-57.73	-2,724.8	-364.1	390.9	296.6	94.30	4.145	
10,300.0	7,460.2	10,068.1	7,252.4	58.1	57.0	-57.71	-2,824.8	-364.1	391.0	293.5	97.48	4.011	
10,400.0	7,459.9	10,168.1	7,251.9	59.9	58.9	-57.70	-2,924.8	-364.1	391.0	290.4	100.66	3.884	
10,500.0	7,459.5	10,268.1	7,251.4	61.7	60.7	-57.68	-3,024.8	-364.1	391.1	287.2	103.86	3.766	
10,600.0	7,459.2	10,368.1	7,251.0	63.5	62.5	-57.67	-3,124.8	-364.1	391.1	284.1	107.06	3.654	
10,700.0	7,458.8	10,468.1	7,250.5	65.3	64.4	-57.65	-3,224.8	-364.1	391.2	280.9	110.27	3.548	
10,800.0	7,458.5	10,568.1	7,250.0	67.2	66.2	-57.64	-3,324.8	-364.1	391.3	277.8	113.48	3.448	
10,900.0	7,458.1	10,668.1	7,249.6	69.0	68.1	-57.62	-3,424.8	-364.1	391.3	274.6	116.70	3.354	
11,000.0	7,457.8	10,768.1	7,249.1	70.8	70.0	-57.61	-3,524.8	-364.1	391.4	271.5	119.92	3.264	
11,100.0	7,457.4	10,868.1	7,248.6	72.7	71.8	-57.59	-3,624.8	-364.1	391.5	268.3	123.14	3.179	
11,200.0	7,457.1	10,968.1	7,248.1	74.5	73.7	-57.58	-3,724.8	-364.1	391.5	265.2	126.37	3.098	
11,300.0	7,456.7	11,068.1	7,247.7	76.4	75.5	-57.56	-3,824.8	-364.1	391.6	262.0	129.61	3.022	
11,400.0	7,456.4	11,168.1	7,247.2	78.2	77.4	-57.55	-3,924.8	-364.1	391.7	258.8	132.84	2.948	
11,500.0	7,456.0	11,268.1	7,246.7	80.1	79.3	-57.53	-4,024.8	-364.1	391.7	255.7	136.08	2.879	
11,600.0	7,455.7	11,368.1	7,246.3	81.9	81.2	-57.52	-4,124.8	-364.1	391.8	252.5	139.32	2.812	
11,700.0	7,455.3	11,468.1	7,245.8	83.8	83.0	-57.50	-4,224.8	-364.1	391.9	249.3	142.56	2.749	
11,800.0	7,455.0	11,568.1	7,245.3	85.6	84.9	-57.49	-4,324.8	-364.1	391.9	246.1	145.81	2.688	
11,900.0	7,454.6	11,668.1	7,244.8	87.5	86.8	-57.47	-4,424.8	-364.1	392.0	242.9	149.06	2.630	
12,000.0	7,454.3	11,768.1	7,244.4	89.4	88.7	-57.46	-4,524.8	-364.1	392.1	239.8	152.31	2.574	
12,078.8	7,454.0	11,846.9	7,244.0	90.8	90.1	-57.45	-4,603.6	-364.1	392.1	237.3	154.87	2.532	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	89.99	0.0	44.8	44.8	44.8	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	89.99	0.0	44.8	44.8	44.6	0.23	197.377	
200.0	200.0	201.0	201.0	0.3	0.3	89.99	0.0	44.8	44.8	44.1	0.68	66.229	CC, ES
300.0	300.0	301.0	301.0	0.6	0.6	166.23	0.0	44.8	46.5	45.4	1.12	41.347	
400.0	399.8	400.8	400.8	0.8	0.8	167.59	0.0	44.8	51.6	50.0	1.58	32.746	
500.0	499.5	500.5	500.5	1.0	1.0	169.34	0.0	44.8	60.1	58.1	2.03	29.601	
600.0	598.7	599.7	599.7	1.3	1.2	171.10	0.0	44.8	72.2	69.7	2.49	28.973	
700.0	697.6	698.6	698.6	1.6	1.5	172.59	0.0	44.8	86.7	83.8	2.94	29.473	
800.0	796.5	797.5	797.5	2.0	1.7	173.67	0.0	44.8	101.5	98.1	3.40	29.875	
900.0	895.4	896.4	896.4	2.3	1.9	174.48	0.0	44.8	116.3	112.4	3.85	30.163	
1,000.0	994.3	995.3	995.3	2.7	2.1	175.10	0.0	44.8	131.1	126.7	4.31	30.379	
1,100.0	1,093.2	1,094.2	1,094.2	3.0	2.3	175.60	0.0	44.8	145.9	141.1	4.78	30.545	
1,200.0	1,192.1	1,193.1	1,193.1	3.4	2.6	176.01	0.0	44.8	160.7	155.4	5.24	30.676	
1,300.0	1,291.0	1,292.0	1,292.0	3.7	2.8	176.35	0.0	44.8	175.5	169.8	5.70	30.783	
1,400.0	1,389.8	1,390.8	1,390.8	4.1	3.0	176.63	0.0	44.8	190.3	184.2	6.17	30.870	
1,500.0	1,488.7	1,495.9	1,495.9	4.5	3.2	176.69	1.0	43.5	203.8	197.2	6.64	30.714	
1,600.0	1,587.6	1,602.4	1,602.2	4.8	3.5	176.30	4.3	39.1	214.0	206.9	7.10	30.126	
1,700.0	1,686.5	1,709.4	1,708.8	5.2	3.7	175.48	9.9	31.4	220.8	213.3	7.58	29.143	
1,800.0	1,785.4	1,812.3	1,810.9	5.5	4.0	174.37	17.3	21.5	225.0	216.9	8.05	27.940	
1,900.0	1,884.3	1,912.1	1,910.0	5.9	4.2	173.30	24.6	11.6	229.0	220.4	8.53	26.842	
2,000.0	1,983.2	2,011.9	2,009.1	6.2	4.5	172.26	31.9	1.8	233.0	224.0	9.01	25.850	
2,100.0	2,082.1	2,111.7	2,108.1	6.6	4.8	171.26	39.2	-8.1	237.1	227.6	9.50	24.950	
2,200.0	2,181.0	2,211.6	2,207.2	7.0	5.0	170.30	46.5	-18.0	241.3	231.3	10.00	24.131	
2,300.0	2,279.9	2,311.4	2,306.3	7.3	5.3	169.36	53.8	-27.9	245.6	235.1	10.50	23.382	
2,400.0	2,378.8	2,411.2	2,405.3	7.7	5.6	168.46	61.1	-37.7	249.9	238.9	11.01	22.695	
2,500.0	2,477.6	2,511.1	2,504.4	8.0	5.9	167.59	68.4	-47.6	254.2	242.7	11.52	22.063	
2,600.0	2,576.5	2,610.9	2,603.5	8.4	6.2	166.75	75.8	-57.5	258.7	246.6	12.04	21.480	
2,700.0	2,675.4	2,710.7	2,702.6	8.8	6.5	165.94	83.1	-67.3	263.2	250.6	12.57	20.941	
2,800.0	2,774.3	2,810.6	2,801.6	9.1	6.8	165.15	90.4	-77.2	267.7	254.6	13.10	20.441	
2,900.0	2,873.2	2,910.4	2,900.7	9.5	7.1	164.39	97.7	-87.1	272.3	258.7	13.63	19.977	
3,000.0	2,972.1	3,010.2	2,999.8	9.8	7.4	163.66	105.0	-96.9	276.9	262.7	14.17	19.544	
3,100.0	3,071.0	3,110.1	3,098.9	10.2	7.7	162.95	112.3	-106.8	281.6	266.9	14.71	19.141	
3,200.0	3,169.9	3,209.9	3,197.9	10.6	8.0	162.26	119.6	-116.7	286.3	271.0	15.26	18.764	
3,300.0	3,268.8	3,309.7	3,297.0	10.9	8.3	161.60	126.9	-126.5	291.1	275.2	15.81	18.411	
3,400.0	3,367.7	3,409.5	3,396.1	11.3	8.6	160.96	134.2	-136.4	295.9	279.5	16.36	18.080	
3,500.0	3,466.5	3,509.4	3,495.1	11.6	8.9	160.33	141.5	-146.3	300.7	283.8	16.92	17.769	
3,600.0	3,565.4	3,609.2	3,594.2	12.0	9.2	159.73	148.9	-156.2	305.5	288.1	17.48	17.476	
3,700.0	3,664.3	3,709.0	3,693.3	12.4	9.5	159.15	156.2	-166.0	310.4	292.4	18.05	17.200	
3,800.0	3,763.2	3,808.9	3,792.4	12.7	9.8	158.58	163.5	-175.9	315.4	296.8	18.62	16.940	
3,900.0	3,862.1	3,905.4	3,888.2	13.1	10.1	158.09	170.4	-185.2	320.6	301.4	19.16	16.729	
4,000.0	3,961.0	4,000.0	3,982.4	13.5	10.3	157.94	175.6	-192.2	327.7	308.1	19.63	16.692	
4,100.0	4,059.9	4,089.5	4,071.8	13.8	10.5	158.15	178.8	-196.6	337.2	317.1	20.05	16.812	
4,200.0	4,158.8	4,180.9	4,163.1	14.2	10.6	158.69	180.4	-198.7	348.9	328.5	20.44	17.069	
4,300.0	4,257.7	4,276.5	4,258.7	14.5	10.8	159.49	180.5	-198.9	362.6	341.8	20.82	17.420	
4,400.0	4,356.6	4,375.4	4,357.6	14.9	11.0	160.28	180.5	-198.9	376.6	355.4	21.21	17.753	
4,500.0	4,455.5	4,474.3	4,456.5	15.3	11.2	161.01	180.5	-198.9	390.6	369.0	21.62	18.069	
4,600.0	4,554.3	4,573.2	4,555.3	15.6	11.4	161.69	180.5	-198.9	404.7	382.7	22.03	18.372	
4,700.0	4,653.2	4,672.1	4,654.2	16.0	11.5	162.33	180.5	-198.9	418.9	396.4	22.44	18.664	
4,800.0	4,752.1	4,771.0	4,753.1	16.3	11.7	162.93	180.5	-198.9	433.0	410.2	22.86	18.943	
4,900.0	4,851.0	4,869.8	4,852.0	16.7	11.9	163.49	180.5	-198.9	447.3	424.0	23.28	19.212	
5,000.0	4,949.9	4,968.7	4,950.9	17.1	12.1	164.01	180.5	-198.9	461.6	437.9	23.71	19.470	
5,100.0	5,048.9	5,067.8	5,049.9	17.4	12.3	164.52	180.5	-198.9	474.9	450.8	24.13	19.683	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,148.4	5,167.2	5,149.4	17.6	12.5	164.91	180.5	-198.9	485.1	460.6	24.51	19.792	
5,300.0	5,248.1	5,266.9	5,249.1	17.8	12.7	165.16	180.5	-198.9	491.9	467.0	24.87	19.781	
5,400.0	5,348.1	5,366.9	5,349.1	17.9	12.9	165.28	180.5	-198.9	495.3	470.1	25.20	19.657	
5,500.0	5,448.1	5,466.9	5,449.1	18.1	13.1	89.58	180.5	-198.9	495.8	470.2	25.55	19.404	
5,600.0	5,548.1	5,566.9	5,549.1	18.2	13.3	89.58	180.5	-198.9	495.8	469.8	25.95	19.108	
5,700.0	5,648.1	5,666.9	5,649.1	18.3	13.5	89.58	180.5	-198.9	495.8	469.4	26.34	18.820	
5,800.0	5,748.1	5,766.9	5,749.1	18.5	13.7	89.58	180.5	-198.9	495.8	469.0	26.74	18.539	
5,900.0	5,848.1	5,866.9	5,849.1	18.6	13.9	89.58	180.5	-198.9	495.8	468.6	27.14	18.265	
6,000.0	5,948.1	5,966.9	5,949.1	18.8	14.1	89.58	180.5	-198.9	495.8	468.2	27.55	17.999	
6,100.0	6,048.1	6,066.9	6,049.1	18.9	14.3	89.58	180.5	-198.9	495.8	467.8	27.95	17.739	
6,200.0	6,148.1	6,166.9	6,149.1	19.1	14.5	89.58	180.5	-198.9	495.8	467.4	28.35	17.486	
6,300.0	6,248.1	6,266.9	6,249.1	19.2	14.7	89.58	180.5	-198.9	495.8	467.0	28.76	17.239	
6,400.0	6,348.1	6,366.9	6,349.1	19.4	15.0	89.58	180.5	-198.9	495.8	466.6	29.17	16.998	
6,500.0	6,448.1	6,466.9	6,449.1	19.6	15.2	89.58	180.5	-198.9	495.8	466.2	29.58	16.763	
6,600.0	6,548.1	6,566.9	6,549.1	19.7	15.4	89.58	180.5	-198.9	495.8	465.8	29.99	16.534	
6,700.0	6,648.1	6,666.9	6,649.1	19.9	15.6	89.58	180.5	-198.9	495.8	465.4	30.40	16.311	
6,800.0	6,748.1	6,766.9	6,749.1	20.0	15.8	89.59	180.5	-198.9	495.8	465.0	30.81	16.094	
6,855.3	6,803.4	6,822.4	6,804.4	20.1	15.9	90.00	176.9	-198.9	495.8	464.8	30.98	16.003	
6,900.0	6,848.1	6,866.2	6,847.6	20.2	15.9	90.81	169.9	-198.9	495.8	464.7	31.08	15.955	
6,999.9	6,948.0	6,958.3	6,935.8	20.3	16.0	93.84	143.6	-198.9	497.1	465.8	31.22	15.923	
7,100.0	7,047.4	7,043.0	7,011.6	20.5	16.1	-82.28	106.0	-198.9	500.9	469.6	31.27	16.021	
7,200.0	7,143.2	7,123.9	7,077.4	20.6	16.1	-78.71	59.1	-198.9	506.6	475.3	31.30	16.186	
7,300.0	7,231.7	7,200.0	7,132.0	20.6	16.2	-75.58	6.2	-198.9	513.2	482.0	31.30	16.399	
7,400.0	7,309.9	7,277.7	7,179.2	20.7	16.2	-72.81	-55.4	-198.9	520.1	488.9	31.27	16.634	
7,500.0	7,374.7	7,350.0	7,214.4	20.7	16.3	-70.65	-118.5	-198.9	526.4	495.2	31.24	16.850	
7,600.0	7,423.9	7,424.8	7,241.4	20.9	16.5	-68.99	-188.2	-198.9	531.6	500.3	31.31	16.980	
7,700.0	7,455.5	7,500.0	7,258.1	21.1	16.9	-67.91	-261.5	-198.9	535.1	503.6	31.57	16.951	
7,800.0	7,468.6	7,568.8	7,264.0	21.5	17.4	-67.48	-330.0	-198.9	536.7	504.6	32.11	16.716	
7,900.0	7,468.6	7,663.7	7,263.7	22.0	18.2	-67.45	-424.9	-198.9	536.8	503.4	33.47	16.040	
8,000.0	7,468.2	7,763.7	7,263.2	22.8	19.2	-67.43	-524.9	-198.9	536.9	501.6	35.22	15.243	
8,100.0	7,467.9	7,863.7	7,262.7	23.6	20.3	-67.42	-624.9	-198.9	536.9	499.7	37.24	14.419	
8,200.0	7,467.5	7,963.7	7,262.3	24.6	21.5	-67.41	-724.9	-198.9	537.0	497.5	39.48	13.602	
8,300.0	7,467.2	8,063.7	7,261.8	25.8	22.8	-67.40	-824.9	-198.9	537.0	495.1	41.90	12.816	
8,400.0	7,466.8	8,163.7	7,261.3	27.0	24.2	-67.38	-924.9	-198.9	537.1	492.6	44.48	12.073	
8,500.0	7,466.5	8,263.7	7,260.9	28.3	25.7	-67.37	-1,024.9	-198.9	537.1	489.9	47.19	11.381	
8,600.0	7,466.1	8,363.7	7,260.4	29.7	27.2	-67.36	-1,124.9	-198.9	537.2	487.1	50.01	10.740	
8,700.0	7,465.8	8,463.7	7,259.9	31.1	28.8	-67.35	-1,224.9	-198.9	537.2	484.3	52.92	10.150	
8,800.0	7,465.4	8,563.7	7,259.4	32.6	30.4	-67.34	-1,324.9	-198.9	537.2	481.3	55.91	9.609	
8,900.0	7,465.1	8,663.7	7,259.0	34.2	32.0	-67.32	-1,424.9	-198.9	537.3	478.3	58.97	9.112	
9,000.0	7,464.7	8,763.7	7,258.5	35.7	33.7	-67.31	-1,524.9	-198.9	537.3	475.3	62.08	8.656	
9,100.0	7,464.4	8,863.7	7,258.0	37.3	35.4	-67.30	-1,624.9	-198.9	537.4	472.2	65.23	8.238	
9,200.0	7,464.0	8,963.7	7,257.6	39.0	37.1	-67.29	-1,724.9	-198.9	537.4	469.0	68.43	7.854	
9,300.0	7,463.7	9,063.7	7,257.1	40.6	38.8	-67.28	-1,824.9	-198.9	537.5	465.8	71.66	7.500	
9,400.0	7,463.4	9,163.7	7,256.6	42.3	40.6	-67.26	-1,924.9	-198.9	537.5	462.6	74.93	7.174	
9,500.0	7,463.0	9,263.7	7,256.1	44.0	42.3	-67.25	-2,024.9	-198.9	537.6	459.4	78.22	6.873	
9,600.0	7,462.7	9,363.7	7,255.7	45.7	44.1	-67.24	-2,124.9	-198.9	537.6	456.1	81.53	6.594	
9,700.0	7,462.3	9,463.7	7,255.2	47.4	45.9	-67.23	-2,224.8	-198.9	537.7	452.8	84.86	6.336	
9,800.0	7,462.0	9,563.7	7,254.7	49.2	47.7	-67.22	-2,324.8	-198.9	537.7	449.5	88.21	6.096	
9,900.0	7,461.6	9,663.7	7,254.3	50.9	49.5	-67.20	-2,424.8	-198.9	537.8	446.2	91.58	5.872	
10,000.0	7,461.3	9,763.7	7,253.8	52.7	51.3	-67.19	-2,524.8	-198.9	537.8	442.8	94.97	5.663	
10,100.0	7,460.9	9,863.7	7,253.3	54.5	53.1	-67.18	-2,624.8	-198.9	537.9	439.5	98.36	5.468	
10,200.0	7,460.6	9,963.7	7,252.8	56.3	55.0	-67.17	-2,724.8	-198.9	537.9	436.1	101.77	5.286	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,300.0	7,460.2	10,063.7	7,252.4	58.1	56.8	-67.16	-2,824.8	-198.9	538.0	432.8	105.19	5.114	
10,400.0	7,459.9	10,163.7	7,251.9	59.9	58.6	-67.14	-2,924.8	-198.9	538.0	429.4	108.61	4.953	
10,500.0	7,459.5	10,263.7	7,251.4	61.7	60.5	-67.13	-3,024.8	-198.9	538.1	426.0	112.05	4.802	
10,600.0	7,459.2	10,363.7	7,251.0	63.5	62.3	-67.12	-3,124.8	-198.9	538.1	422.6	115.49	4.659	
10,700.0	7,458.8	10,463.7	7,250.5	65.3	64.2	-67.11	-3,224.8	-198.9	538.1	419.2	118.94	4.525	
10,800.0	7,458.5	10,563.7	7,250.0	67.2	66.0	-67.10	-3,324.8	-198.9	538.2	415.8	122.39	4.397	
10,900.0	7,458.1	10,663.7	7,249.5	69.0	67.9	-67.08	-3,424.8	-198.9	538.2	412.4	125.86	4.277	
11,000.0	7,457.8	10,763.7	7,249.1	70.8	69.8	-67.07	-3,524.8	-198.9	538.3	409.0	129.32	4.162	
11,100.0	7,457.4	10,863.7	7,248.6	72.7	71.6	-67.06	-3,624.8	-198.9	538.3	405.5	132.79	4.054	
11,200.0	7,457.1	10,963.7	7,248.1	74.5	73.5	-67.05	-3,724.8	-198.9	538.4	402.1	136.27	3.951	
11,300.0	7,456.7	11,063.7	7,247.7	76.4	75.4	-67.04	-3,824.8	-198.9	538.4	398.7	139.75	3.853	
11,400.0	7,456.4	11,163.7	7,247.2	78.2	77.2	-67.02	-3,924.8	-198.9	538.5	395.2	143.23	3.759	
11,500.0	7,456.0	11,263.7	7,246.7	80.1	79.1	-67.01	-4,024.8	-198.9	538.5	391.8	146.72	3.670	
11,600.0	7,455.7	11,363.7	7,246.2	81.9	81.0	-67.00	-4,124.8	-198.9	538.6	388.4	150.21	3.586	
11,700.0	7,455.3	11,463.7	7,245.8	83.8	82.9	-66.99	-4,224.8	-198.9	538.6	384.9	153.70	3.504	
11,800.0	7,455.0	11,563.7	7,245.3	85.6	84.8	-66.98	-4,324.8	-198.9	538.7	381.5	157.20	3.427	
11,900.0	7,454.6	11,663.7	7,244.8	87.5	86.6	-66.97	-4,424.8	-198.9	538.7	378.0	160.69	3.352	
12,000.0	7,454.3	11,763.7	7,244.4	89.4	88.5	-66.95	-4,524.8	-198.9	538.8	374.6	164.19	3.281	
12,041.6	7,454.1	11,805.3	7,244.2	90.1	89.3	-66.95	-4,566.4	-198.9	538.8	373.1	165.65	3.253	
12,078.8	7,454.0	11,839.8	7,244.0	90.8	90.0	-66.94	-4,601.0	-198.9	538.8	371.9	166.90	3.228	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	2.0	2.0	0.0	0.0	90.00	0.0	58.8	58.8	58.8	0.00	N/A	
100.0	100.0	102.0	102.0	0.1	0.1	90.00	0.0	58.8	58.8	58.6	0.23	256.517	
200.0	200.0	202.0	202.0	0.3	0.3	90.00	0.0	58.8	58.8	58.1	0.68	86.638	CC, ES
300.0	300.0	302.0	302.0	0.6	0.6	166.11	0.0	58.8	60.5	59.4	1.13	53.691	
400.0	399.8	401.8	401.8	0.8	0.8	167.18	0.0	58.8	65.6	64.0	1.58	41.571	
500.0	499.5	501.5	501.5	1.0	1.0	168.64	0.0	58.8	74.1	72.1	2.03	36.443	
600.0	598.7	600.7	600.7	1.3	1.2	170.20	0.0	58.8	86.1	83.6	2.49	34.542	
700.0	697.6	699.6	699.6	1.6	1.5	171.62	0.0	58.8	100.6	97.7	2.95	34.171	
800.0	796.5	798.5	798.5	2.0	1.7	172.69	0.0	58.8	115.4	112.0	3.40	33.933	
900.0	895.4	897.4	897.4	2.3	1.9	173.52	0.0	58.8	130.1	126.3	3.86	33.732	
1,000.0	994.3	996.3	996.3	2.7	2.1	174.19	0.0	58.8	144.9	140.6	4.32	33.561	
1,100.0	1,093.2	1,095.2	1,095.2	3.0	2.3	174.73	0.0	58.8	159.7	154.9	4.78	33.416	
1,200.0	1,192.1	1,194.1	1,194.1	3.4	2.6	175.17	0.0	58.8	174.5	169.2	5.24	33.291	
1,300.0	1,291.0	1,293.0	1,293.0	3.7	2.8	175.55	0.0	58.8	189.3	183.6	5.70	33.182	
1,400.0	1,389.8	1,391.8	1,391.8	4.1	3.0	175.88	0.0	58.8	204.1	197.9	6.17	33.087	
1,500.0	1,488.7	1,490.7	1,490.7	4.5	3.2	176.16	0.0	58.8	218.9	212.3	6.63	33.004	
1,600.0	1,587.6	1,589.6	1,589.6	4.8	3.5	176.40	0.0	58.8	233.7	226.6	7.10	32.929	
1,700.0	1,686.5	1,692.2	1,692.2	5.2	3.7	176.42	1.0	58.3	247.9	240.3	7.57	32.754	
1,800.0	1,785.4	1,795.6	1,795.5	5.5	3.9	175.95	4.5	56.5	260.5	252.4	8.04	32.397	
1,900.0	1,884.3	1,899.3	1,898.9	5.9	4.2	175.05	10.4	53.5	271.4	262.9	8.51	31.875	
2,000.0	1,983.2	2,003.0	2,002.3	6.2	4.4	173.75	18.9	49.1	280.8	271.8	9.00	31.211	
2,100.0	2,082.1	2,103.9	2,102.5	6.6	4.6	172.23	29.0	43.9	289.2	279.7	9.49	30.485	
2,200.0	2,181.0	2,203.2	2,201.2	7.0	4.9	170.78	39.2	38.8	297.7	287.7	9.98	29.816	
2,300.0	2,279.9	2,302.6	2,299.9	7.3	5.1	169.42	49.3	33.6	306.4	295.9	10.49	29.202	
2,400.0	2,378.8	2,402.0	2,398.6	7.7	5.4	168.13	59.4	28.4	315.2	304.2	11.01	28.636	
2,500.0	2,477.6	2,501.3	2,497.3	8.0	5.7	166.92	69.5	23.2	324.2	312.7	11.53	28.113	
2,600.0	2,576.5	2,600.7	2,596.1	8.4	5.9	165.77	79.6	18.0	333.3	321.2	12.06	27.630	
2,700.0	2,675.4	2,700.1	2,694.8	8.8	6.2	164.68	89.7	12.9	342.5	329.9	12.60	27.182	
2,800.0	2,774.3	2,799.4	2,793.5	9.1	6.5	163.65	99.8	7.7	351.9	338.8	13.15	26.767	
2,900.0	2,873.2	2,898.8	2,892.2	9.5	6.7	162.67	109.9	2.5	361.4	347.7	13.70	26.382	
3,000.0	2,972.1	2,998.2	2,990.9	9.8	7.0	161.74	120.1	-2.7	370.9	356.7	14.25	26.024	
3,100.0	3,071.0	3,097.5	3,089.6	10.2	7.3	160.86	130.2	-7.8	380.6	365.8	14.82	25.690	
3,200.0	3,169.9	3,196.9	3,188.3	10.6	7.6	160.02	140.3	-13.0	390.3	375.0	15.38	25.379	
3,300.0	3,268.8	3,296.3	3,287.0	10.9	7.9	159.22	150.4	-18.2	400.2	384.2	15.95	25.088	
3,400.0	3,367.7	3,394.8	3,385.0	11.3	8.1	158.48	160.4	-23.3	410.1	393.6	16.51	24.832	
3,500.0	3,466.5	3,490.7	3,480.4	11.6	8.4	158.01	168.6	-27.5	420.7	403.7	17.01	24.732	
3,600.0	3,565.4	3,586.4	3,575.9	12.0	8.5	157.86	174.6	-30.6	432.1	414.6	17.47	24.726	
3,700.0	3,664.3	3,682.0	3,671.4	12.4	8.7	158.02	178.6	-32.6	444.3	426.4	17.91	24.805	
3,800.0	3,763.2	3,777.3	3,766.6	12.7	8.9	158.45	180.4	-33.6	457.4	439.1	18.32	24.965	
3,900.0	3,862.1	3,874.8	3,864.1	13.1	9.1	159.08	180.5	-33.6	471.3	452.5	18.73	25.163	
4,000.0	3,961.0	3,973.7	3,963.0	13.5	9.3	159.71	180.5	-33.6	485.2	466.0	19.15	25.331	
4,100.0	4,059.9	4,072.6	4,061.9	13.8	9.5	160.30	180.5	-33.6	499.2	479.6	19.58	25.487	
4,200.0	4,158.8	4,171.5	4,160.8	14.2	9.7	160.86	180.5	-33.6	513.2	493.2	20.02	25.636	
4,300.0	4,257.7	4,270.3	4,259.7	14.5	9.9	161.38	180.5	-33.6	527.3	506.8	20.45	25.779	
4,400.0	4,356.6	4,369.2	4,358.6	14.9	10.1	161.89	180.5	-33.6	541.4	520.5	20.89	25.916	
4,500.0	4,455.5	4,468.1	4,457.5	15.3	10.3	162.36	180.5	-33.6	555.5	534.2	21.33	26.047	
4,600.0	4,554.3	4,567.0	4,556.3	15.6	10.5	162.81	180.5	-33.6	569.7	547.9	21.77	26.173	
4,700.0	4,653.2	4,665.9	4,655.2	16.0	10.7	163.24	180.5	-33.6	583.9	561.7	22.21	26.294	
4,800.0	4,752.1	4,764.8	4,754.1	16.3	10.9	163.65	180.5	-33.6	598.2	575.5	22.65	26.410	
4,900.0	4,851.0	4,863.7	4,853.0	16.7	11.1	164.05	180.5	-33.6	612.5	589.4	23.09	26.522	
5,000.0	4,949.9	4,962.6	4,951.9	17.1	11.3	164.42	180.5	-33.6	626.8	603.2	23.54	26.629	
5,100.0	5,048.9	5,061.6	5,050.9	17.4	11.5	164.80	180.5	-33.6	640.2	616.2	23.99	26.689	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,148.4	5,161.0	5,150.4	17.6	11.8	165.10	180.5	-33.6	650.3	625.9	24.39	26.663	
5,300.0	5,248.1	5,260.8	5,250.1	17.8	12.0	165.29	180.5	-33.6	657.1	632.4	24.77	26.533	
5,400.0	5,348.1	5,360.7	5,350.1	17.9	12.2	165.39	180.5	-33.6	660.6	635.5	25.12	26.301	
5,500.0	5,448.1	5,460.7	5,450.1	18.1	12.4	89.69	180.5	-33.6	661.0	635.6	25.48	25.946	
5,600.0	5,548.1	5,560.7	5,550.1	18.2	12.6	89.69	180.5	-33.6	661.0	635.2	25.88	25.545	
5,700.0	5,648.1	5,660.7	5,650.1	18.3	12.8	89.69	180.5	-33.6	661.0	634.7	26.28	25.155	
5,800.0	5,748.1	5,760.7	5,750.1	18.5	13.0	89.69	180.5	-33.6	661.0	634.3	26.68	24.776	
5,900.0	5,848.1	5,860.7	5,850.1	18.6	13.2	89.69	180.5	-33.6	661.0	633.9	27.08	24.406	
6,000.0	5,948.1	5,960.7	5,950.1	18.8	13.5	89.69	180.5	-33.6	661.0	633.5	27.49	24.046	
6,100.0	6,048.1	6,060.7	6,050.1	18.9	13.7	89.69	180.5	-33.6	661.0	633.1	27.90	23.695	
6,200.0	6,148.1	6,160.7	6,150.1	19.1	13.9	89.69	180.5	-33.6	661.0	632.7	28.30	23.354	
6,300.0	6,248.1	6,260.7	6,250.1	19.2	14.1	89.69	180.5	-33.6	661.0	632.3	28.71	23.021	
6,400.0	6,348.1	6,360.7	6,350.1	19.4	14.3	89.69	180.5	-33.6	661.0	631.9	29.12	22.697	
6,500.0	6,448.1	6,460.7	6,450.1	19.6	14.5	89.69	180.5	-33.6	661.0	631.5	29.54	22.381	
6,600.0	6,548.1	6,560.7	6,550.1	19.7	14.8	89.69	180.5	-33.6	661.0	631.1	29.95	22.072	
6,700.0	6,648.1	6,660.7	6,650.1	19.9	15.0	89.69	180.5	-33.6	661.0	630.7	30.36	21.772	
6,800.0	6,748.1	6,760.7	6,750.1	20.0	15.2	89.69	180.5	-33.6	661.0	630.3	30.78	21.478	
6,900.0	6,848.1	6,860.7	6,850.1	20.2	15.4	89.69	180.5	-33.6	661.0	629.8	31.19	21.192	
6,999.9	6,948.0	6,960.7	6,950.0	20.3	15.6	89.69	180.5	-33.6	661.0	629.4	31.61	20.913	
7,100.0	7,047.4	7,061.4	7,050.1	20.5	15.8	-90.31	170.8	-33.6	661.0	629.1	31.90	20.722	
7,200.0	7,143.2	7,162.1	7,146.4	20.6	15.9	-90.29	142.0	-33.6	661.0	629.0	32.06	20.618	
7,300.0	7,231.7	7,262.7	7,235.4	20.6	15.9	-90.26	95.4	-33.6	661.0	628.9	32.17	20.547	
7,400.0	7,309.9	7,363.2	7,313.7	20.7	16.0	-90.22	32.5	-33.6	661.0	628.7	32.33	20.445	
7,500.0	7,374.7	7,463.7	7,378.4	20.7	16.1	-90.18	-44.1	-33.6	661.0	628.4	32.66	20.239	
7,600.0	7,423.9	7,564.0	7,427.2	20.9	16.4	-90.13	-131.6	-33.6	661.0	627.8	33.26	19.874	
7,700.0	7,455.5	7,664.2	7,458.3	21.1	16.8	-90.07	-226.7	-33.6	661.0	626.8	34.20	19.330	
7,800.0	7,468.6	7,764.3	7,470.7	21.5	17.5	-90.01	-325.8	-33.6	661.0	625.5	35.48	18.633	
7,839.8	7,469.6	7,804.1	7,470.8	21.7	17.8	-89.93	-365.6	-33.6	661.0	624.9	36.09	18.315	
7,900.0	7,468.6	7,864.3	7,470.6	22.0	18.3	-90.00	-425.8	-33.6	661.0	623.9	37.10	17.819	
8,000.0	7,468.2	7,964.3	7,470.2	22.8	19.3	-90.00	-525.8	-33.6	661.0	622.0	39.01	16.945	
8,100.0	7,467.9	8,064.3	7,469.9	23.6	20.4	-90.00	-625.8	-33.6	661.0	619.8	41.19	16.048	
8,200.0	7,467.5	8,164.3	7,469.5	24.6	21.6	-90.00	-725.8	-33.6	661.0	617.4	43.60	15.161	
8,300.0	7,467.2	8,264.3	7,469.2	25.8	22.9	-90.00	-825.8	-33.6	661.0	614.8	46.20	14.308	
8,400.0	7,466.8	8,364.3	7,468.8	27.0	24.3	-90.00	-925.8	-33.6	661.0	612.1	48.96	13.500	
8,500.0	7,466.5	8,464.3	7,468.5	28.3	25.8	-90.00	-1,025.8	-33.6	661.0	609.2	51.86	12.745	
8,600.0	7,466.1	8,564.3	7,468.1	29.7	27.3	-90.00	-1,125.8	-33.6	661.0	606.1	54.88	12.045	
8,700.0	7,465.8	8,664.3	7,467.8	31.1	28.8	-90.00	-1,225.8	-33.6	661.0	603.0	57.99	11.399	
8,800.0	7,465.4	8,764.3	7,467.4	32.6	30.4	-90.00	-1,325.8	-33.6	661.0	599.8	61.18	10.804	
8,900.0	7,465.1	8,864.3	7,467.1	34.2	32.1	-90.00	-1,425.8	-33.6	661.0	596.6	64.44	10.257	
9,000.0	7,464.7	8,964.3	7,466.7	35.7	33.7	-90.00	-1,525.8	-33.6	661.0	593.3	67.76	9.755	
9,100.0	7,464.4	9,064.3	7,466.4	37.3	35.4	-90.00	-1,625.8	-33.6	661.0	589.9	71.14	9.292	
9,200.0	7,464.0	9,164.3	7,466.0	39.0	37.2	-90.00	-1,725.8	-33.6	661.0	586.5	74.56	8.866	
9,300.0	7,463.7	9,264.3	7,465.7	40.6	38.9	-90.00	-1,825.8	-33.6	661.0	583.0	78.01	8.473	
9,400.0	7,463.4	9,364.3	7,465.3	42.3	40.6	-90.00	-1,925.8	-33.6	661.0	579.5	81.50	8.111	
9,500.0	7,463.0	9,464.3	7,465.0	44.0	42.4	-90.00	-2,025.8	-33.6	661.0	576.0	85.02	7.775	
9,600.0	7,462.7	9,564.3	7,464.6	45.7	44.2	-90.00	-2,125.8	-33.6	661.0	572.5	88.56	7.464	
9,700.0	7,462.3	9,664.3	7,464.3	47.4	46.0	-90.00	-2,225.8	-33.6	661.0	568.9	92.13	7.175	
9,800.0	7,462.0	9,764.3	7,463.9	49.2	47.8	-90.00	-2,325.8	-33.6	661.0	565.3	95.72	6.906	
9,900.0	7,461.6	9,864.3	7,463.6	50.9	49.6	-90.00	-2,425.8	-33.6	661.0	561.7	99.32	6.655	
10,000.0	7,461.3	9,964.3	7,463.2	52.7	51.4	-90.00	-2,525.8	-33.6	661.0	558.1	102.95	6.421	
10,100.0	7,460.9	10,064.3	7,462.9	54.5	53.2	-90.00	-2,625.8	-33.6	661.0	554.4	106.58	6.202	
10,200.0	7,460.6	10,164.3	7,462.5	56.3	55.0	-90.00	-2,725.8	-33.6	661.0	550.8	110.23	5.996	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,300.0	7,460.2	10,264.3	7,462.2	58.1	56.9	-90.00	-2,825.8	-33.6	661.0	547.1	113.90	5.804	
10,400.0	7,459.9	10,364.3	7,461.8	59.9	58.7	-90.00	-2,925.8	-33.6	661.0	543.4	117.57	5.622	
10,500.0	7,459.5	10,464.3	7,461.5	61.7	60.5	-90.00	-3,025.8	-33.6	661.0	539.8	121.25	5.452	
10,600.0	7,459.2	10,564.3	7,461.1	63.5	62.4	-90.00	-3,125.8	-33.6	661.0	536.1	124.94	5.291	
10,700.0	7,458.8	10,664.3	7,460.8	65.3	64.2	-90.00	-3,225.8	-33.6	661.0	532.4	128.64	5.138	
10,800.0	7,458.5	10,764.3	7,460.5	67.2	66.1	-90.00	-3,325.8	-33.6	661.0	528.7	132.35	4.994	
10,900.0	7,458.1	10,864.3	7,460.1	69.0	68.0	-90.00	-3,425.8	-33.6	661.0	525.0	136.06	4.858	
11,000.0	7,457.8	10,964.3	7,459.8	70.8	69.8	-90.00	-3,525.8	-33.6	661.0	521.2	139.78	4.729	
11,100.0	7,457.4	11,064.3	7,459.4	72.7	71.7	-90.00	-3,625.8	-33.6	661.0	517.5	143.51	4.606	
11,200.0	7,457.1	11,164.3	7,459.1	74.5	73.5	-90.00	-3,725.8	-33.6	661.0	513.8	147.24	4.489	
11,300.0	7,456.7	11,264.3	7,458.7	76.4	75.4	-90.00	-3,825.8	-33.6	661.0	510.0	150.98	4.378	
11,400.0	7,456.4	11,364.3	7,458.4	78.2	77.3	-90.00	-3,925.8	-33.6	661.0	506.3	154.72	4.272	
11,500.0	7,456.0	11,464.3	7,458.0	80.1	79.2	-90.00	-4,025.8	-33.6	661.0	502.6	158.46	4.171	
11,600.0	7,455.7	11,564.3	7,457.7	81.9	81.0	-90.00	-4,125.8	-33.6	661.0	498.8	162.21	4.075	
11,700.0	7,455.3	11,664.3	7,457.3	83.8	82.9	-90.00	-4,225.8	-33.6	661.0	495.1	165.97	3.983	
11,800.0	7,455.0	11,764.3	7,457.0	85.6	84.8	-90.00	-4,325.8	-33.6	661.0	491.3	169.72	3.895	
11,900.0	7,454.6	11,864.3	7,456.6	87.5	86.7	-90.00	-4,425.8	-33.6	661.0	487.5	173.48	3.810	
12,000.0	7,454.3	11,964.3	7,456.3	89.4	88.6	-90.00	-4,525.8	-33.6	661.0	483.8	177.25	3.729	
12,056.2	7,454.1	12,020.6	7,456.1	90.4	89.6	-90.00	-4,582.1	-33.6	661.0	481.7	179.36	3.685	
12,078.8	7,454.0	12,039.5	7,456.0	90.8	90.0	-90.00	-4,601.0	-33.6	661.0	480.9	180.14	3.669	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	2.0	2.0	0.0	0.0	90.00	0.0	75.6	75.6	75.6	0.00	N/A	
100.0	100.0	102.0	102.0	0.1	0.1	90.00	0.0	75.6	75.6	75.4	0.23	329.808	
200.0	200.0	202.0	202.0	0.3	0.3	90.00	0.0	75.6	75.6	74.9	0.68	111.392	CC, ES
300.0	300.0	302.0	302.0	0.6	0.6	166.02	0.0	75.6	77.3	76.2	1.13	68.603	
400.0	399.8	401.8	401.8	0.8	0.8	166.88	0.0	75.6	82.4	80.8	1.58	52.219	
500.0	499.5	501.5	501.5	1.0	1.0	168.09	0.0	75.6	90.9	88.9	2.03	44.696	
600.0	598.7	600.7	600.7	1.3	1.2	169.45	0.0	75.6	102.9	100.4	2.49	41.263	
700.0	697.6	699.6	699.6	1.6	1.5	170.75	0.0	75.6	117.4	114.4	2.95	39.843	
800.0	796.5	798.5	798.5	2.0	1.7	171.79	0.0	75.6	132.1	128.7	3.40	38.834	
900.0	895.4	897.4	897.4	2.3	1.9	172.61	0.0	75.6	146.8	142.9	3.86	38.042	
1,000.0	994.3	996.3	996.3	2.7	2.1	173.29	0.0	75.6	161.5	157.2	4.32	37.406	
1,100.0	1,093.2	1,095.2	1,095.2	3.0	2.3	173.85	0.0	75.6	176.3	171.5	4.78	36.884	
1,200.0	1,192.1	1,194.1	1,194.1	3.4	2.6	174.33	0.0	75.6	191.1	185.8	5.24	36.449	
1,300.0	1,291.0	1,293.0	1,293.0	3.7	2.8	174.74	0.0	75.6	205.9	200.1	5.71	36.081	
1,400.0	1,389.8	1,391.8	1,391.8	4.1	3.0	175.09	0.0	75.6	220.7	214.5	6.17	35.765	
1,500.0	1,488.7	1,490.7	1,490.7	4.5	3.2	175.40	0.0	75.6	235.5	228.8	6.63	35.492	
1,600.0	1,587.6	1,589.6	1,589.6	4.8	3.5	175.68	0.0	75.6	250.3	243.2	7.10	35.253	
1,700.0	1,686.5	1,688.5	1,688.5	5.2	3.7	175.92	0.0	75.6	265.1	257.5	7.56	35.042	
1,800.0	1,785.4	1,787.4	1,787.4	5.5	3.9	176.13	0.0	75.6	279.9	271.9	8.03	34.855	
1,900.0	1,884.3	1,886.3	1,886.3	5.9	4.1	176.33	0.0	75.6	294.7	286.2	8.50	34.688	
2,000.0	1,983.2	1,985.2	1,985.2	6.2	4.3	176.50	0.0	75.6	309.5	300.6	8.96	34.538	
2,100.0	2,082.1	2,084.1	2,084.1	6.6	4.6	176.66	0.0	75.6	324.4	314.9	9.43	34.402	
2,200.0	2,181.0	2,183.0	2,183.0	7.0	4.8	176.81	0.0	75.6	339.2	329.3	9.90	34.278	
2,300.0	2,279.9	2,281.9	2,281.9	7.3	5.0	176.94	0.0	75.6	354.0	343.7	10.36	34.165	
2,400.0	2,378.8	2,380.8	2,380.8	7.7	5.2	177.07	0.0	75.6	368.9	358.0	10.83	34.062	
2,500.0	2,477.6	2,479.6	2,479.6	8.0	5.5	177.18	0.0	75.6	383.7	372.4	11.30	33.967	
2,600.0	2,576.5	2,580.6	2,580.6	8.4	5.7	177.13	1.1	75.6	398.3	386.6	11.77	33.851	
2,700.0	2,675.4	2,682.1	2,682.0	8.8	5.9	176.59	5.8	75.7	412.4	400.1	12.24	33.694	
2,800.0	2,774.3	2,783.4	2,782.9	9.1	6.1	175.61	14.0	75.8	425.9	413.2	12.71	33.498	
2,900.0	2,873.2	2,883.6	2,882.5	9.5	6.4	174.26	25.5	76.0	439.0	425.8	13.19	33.272	
3,000.0	2,972.1	2,982.2	2,980.3	9.8	6.6	172.90	37.8	76.2	452.3	438.6	13.68	33.050	
3,100.0	3,071.0	3,080.7	3,078.1	10.2	6.8	171.61	50.0	76.4	465.8	451.6	14.18	32.837	
3,200.0	3,169.9	3,179.3	3,175.9	10.6	7.1	170.40	62.2	76.6	479.5	464.8	14.69	32.632	
3,300.0	3,268.8	3,277.8	3,273.7	10.9	7.3	169.25	74.5	76.8	493.4	478.2	15.21	32.437	
3,400.0	3,367.7	3,376.4	3,371.5	11.3	7.6	168.17	86.7	77.1	507.5	491.8	15.74	32.250	
3,500.0	3,466.5	3,474.9	3,469.2	11.6	7.8	167.14	98.9	77.3	521.8	505.5	16.27	32.073	
3,600.0	3,565.4	3,573.5	3,567.0	12.0	8.1	166.17	111.1	77.5	536.2	519.4	16.81	31.903	
3,700.0	3,664.3	3,672.0	3,664.8	12.4	8.4	165.25	123.4	77.7	550.8	533.5	17.35	31.743	
3,800.0	3,763.2	3,770.6	3,762.6	12.7	8.6	164.38	135.6	77.9	565.5	547.6	17.90	31.590	
3,900.0	3,862.1	3,869.2	3,860.4	13.1	8.9	163.55	147.8	78.1	580.4	561.9	18.46	31.446	
4,000.0	3,961.0	3,967.9	3,958.4	13.5	9.2	162.76	160.1	78.3	595.3	576.3	19.01	31.315	
4,100.0	4,059.9	4,068.1	4,058.1	13.8	9.4	162.21	170.3	78.4	610.2	590.7	19.51	31.276	
4,200.0	4,158.8	4,168.6	4,158.4	14.2	9.6	162.01	177.0	78.6	624.8	604.9	19.97	31.282	
4,300.0	4,257.7	4,269.3	4,259.0	14.5	9.8	162.14	180.2	78.6	639.2	618.8	20.41	31.320	
4,400.0	4,356.6	4,368.9	4,358.6	14.9	10.0	162.52	180.5	78.6	653.4	632.6	20.83	31.366	
4,500.0	4,455.5	4,467.8	4,457.5	15.3	10.2	162.90	180.5	78.6	667.6	646.3	21.27	31.383	
4,600.0	4,554.3	4,566.7	4,556.3	15.6	10.4	163.27	180.5	78.6	681.8	660.1	21.72	31.389	
4,700.0	4,653.2	4,665.6	4,655.2	16.0	10.6	163.62	180.5	78.6	696.1	673.9	22.17	31.395	
4,800.0	4,752.1	4,764.5	4,754.1	16.3	10.8	163.96	180.5	78.6	710.4	687.7	22.62	31.402	
4,900.0	4,851.0	4,863.3	4,853.0	16.7	11.0	164.28	180.5	78.6	724.7	701.6	23.07	31.408	
5,000.0	4,949.9	4,962.2	4,951.9	17.1	11.2	164.59	180.5	78.6	739.0	715.5	23.52	31.414	
5,100.0	5,048.9	5,061.3	5,050.9	17.4	11.4	164.92	180.5	78.6	752.4	728.4	23.98	31.370	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,148.4	5,160.7	5,150.4	17.6	11.7	165.18	180.5	78.6	762.5	738.1	24.40	31.253	
5,300.0	5,248.1	5,260.4	5,250.1	17.8	11.9	165.35	180.5	78.6	769.4	744.6	24.79	31.041	
5,400.0	5,348.1	5,360.4	5,350.1	17.9	12.1	165.43	180.5	78.6	772.8	747.7	25.14	30.738	
5,500.0	5,448.1	5,460.4	5,450.1	18.1	12.3	89.73	180.5	78.6	773.3	747.8	25.51	30.315	
5,600.0	5,548.1	5,560.4	5,550.1	18.2	12.5	89.73	180.5	78.6	773.3	747.4	25.91	29.846	
5,700.0	5,648.1	5,660.4	5,650.1	18.3	12.7	89.73	180.5	78.6	773.3	747.0	26.31	29.390	
5,800.0	5,748.1	5,760.4	5,750.1	18.5	12.9	89.73	180.5	78.6	773.3	746.5	26.71	28.946	
5,900.0	5,848.1	5,860.4	5,850.1	18.6	13.2	89.73	180.5	78.6	773.3	746.1	27.12	28.514	
6,000.0	5,948.1	5,960.4	5,950.1	18.8	13.4	89.73	180.5	78.6	773.3	745.7	27.52	28.093	
6,100.0	6,048.1	6,060.4	6,050.1	18.9	13.6	89.73	180.5	78.6	773.3	745.3	27.93	27.683	
6,200.0	6,148.1	6,160.4	6,150.1	19.1	13.8	89.73	180.5	78.6	773.3	744.9	28.34	27.284	
6,300.0	6,248.1	6,260.4	6,250.1	19.2	14.0	89.73	180.5	78.6	773.3	744.5	28.75	26.895	
6,400.0	6,348.1	6,360.4	6,350.1	19.4	14.3	89.73	180.5	78.6	773.3	744.1	29.16	26.516	
6,500.0	6,448.1	6,460.4	6,450.1	19.6	14.5	89.73	180.5	78.6	773.3	743.7	29.57	26.146	
6,600.0	6,548.1	6,560.4	6,550.1	19.7	14.7	89.73	180.5	78.6	773.3	743.3	29.99	25.786	
6,700.0	6,648.1	6,660.4	6,650.1	19.9	14.9	89.73	180.5	78.6	773.3	742.9	30.40	25.435	
6,764.6	6,712.7	6,725.0	6,714.7	20.0	15.1	89.73	180.5	78.6	773.3	742.6	30.67	25.212	
6,800.0	6,748.1	6,760.3	6,750.0	20.0	15.1	89.74	180.5	78.6	773.3	742.4	30.81	25.094	
6,900.0	6,848.1	6,858.0	6,847.0	20.2	15.3	90.49	170.3	78.7	773.4	742.3	31.12	24.852	
6,999.9	6,948.0	6,950.0	6,935.1	20.3	15.3	92.42	144.3	79.0	774.5	743.2	31.32	24.726	
7,100.0	7,047.4	7,032.6	7,009.3	20.5	15.4	-85.13	108.0	79.4	777.4	745.9	31.43	24.733	
7,200.0	7,143.2	7,112.8	7,074.9	20.6	15.4	-82.82	62.1	79.9	781.5	750.0	31.50	24.814	
7,300.0	7,231.7	7,190.3	7,130.9	20.6	15.5	-80.72	8.6	80.5	786.5	754.9	31.57	24.914	
7,400.0	7,309.9	7,265.7	7,177.2	20.7	15.7	-78.90	-50.8	81.2	791.6	759.9	31.69	24.983	
7,500.0	7,374.7	7,339.5	7,213.8	20.7	15.9	-77.41	-114.9	81.9	796.5	764.6	31.90	24.967	
7,600.0	7,423.9	7,412.3	7,240.6	20.9	16.2	-76.28	-182.5	82.6	800.6	768.4	32.28	24.805	
7,700.0	7,455.5	7,484.4	7,257.6	21.1	16.6	-75.55	-252.5	83.4	803.7	770.9	32.87	24.450	
7,800.0	7,468.6	7,556.1	7,264.8	21.5	17.1	-75.22	-323.8	84.2	805.6	771.8	33.73	23.885	
7,900.0	7,468.6	7,648.6	7,264.7	22.0	17.9	-75.21	-416.2	85.2	806.6	771.4	35.19	22.920	
8,000.0	7,468.2	7,748.6	7,264.3	22.8	18.8	-75.22	-516.2	86.3	807.7	770.7	37.04	21.806	
8,100.0	7,467.9	7,848.6	7,263.8	23.6	20.0	-75.23	-616.2	87.4	808.8	769.7	39.16	20.655	
8,200.0	7,467.5	7,948.6	7,263.3	24.6	21.2	-75.25	-716.2	88.6	810.0	768.4	41.50	19.515	
8,300.0	7,467.2	8,048.6	7,262.8	25.8	22.5	-75.26	-816.2	89.7	811.1	767.0	44.04	18.416	
8,400.0	7,466.8	8,148.6	7,262.4	27.0	23.9	-75.27	-916.2	90.8	812.2	765.4	46.74	17.377	
8,500.0	7,466.5	8,248.6	7,261.9	28.3	25.4	-75.28	-1,016.1	91.9	813.3	763.7	49.57	16.407	
8,600.0	7,466.1	8,348.6	7,261.4	29.7	26.9	-75.29	-1,116.1	93.0	814.4	761.9	52.51	15.508	
8,700.0	7,465.8	8,448.6	7,261.0	31.1	28.5	-75.30	-1,216.1	94.1	815.5	759.9	55.55	14.679	
8,800.0	7,465.4	8,548.5	7,260.5	32.6	30.1	-75.31	-1,316.1	95.2	816.6	757.9	58.67	13.918	
8,900.0	7,465.1	8,648.5	7,260.0	34.2	31.8	-75.33	-1,416.1	96.3	817.7	755.8	61.86	13.218	
9,000.0	7,464.7	8,748.5	7,259.5	35.7	33.5	-75.34	-1,516.1	97.4	818.8	753.7	65.10	12.576	
9,100.0	7,464.4	8,848.5	7,259.1	37.3	35.2	-75.35	-1,616.1	98.5	819.9	751.5	68.40	11.987	
9,200.0	7,464.0	8,948.5	7,258.6	39.0	36.9	-75.36	-1,716.0	99.6	821.0	749.2	71.74	11.444	
9,300.0	7,463.7	9,048.5	7,258.1	40.6	38.6	-75.37	-1,816.0	100.8	822.1	747.0	75.11	10.945	
9,400.0	7,463.4	9,148.5	7,257.7	42.3	40.4	-75.38	-1,916.0	101.9	823.2	744.7	78.52	10.484	
9,500.0	7,463.0	9,248.5	7,257.2	44.0	42.2	-75.39	-2,016.0	103.0	824.3	742.3	81.96	10.057	
9,600.0	7,462.7	9,348.5	7,256.7	45.7	44.0	-75.41	-2,116.0	104.1	825.4	740.0	85.42	9.663	
9,700.0	7,462.3	9,448.5	7,256.2	47.4	45.7	-75.42	-2,216.0	105.2	826.5	737.6	88.91	9.296	
9,800.0	7,462.0	9,548.5	7,255.8	49.2	47.6	-75.43	-2,316.0	106.3	827.6	735.2	92.41	8.956	
9,900.0	7,461.6	9,648.5	7,255.3	50.9	49.4	-75.44	-2,416.0	107.4	828.7	732.8	95.93	8.639	
10,000.0	7,461.3	9,748.5	7,254.8	52.7	51.2	-75.45	-2,515.9	108.5	829.8	730.3	99.47	8.342	
10,100.0	7,460.9	9,848.5	7,254.4	54.5	53.0	-75.46	-2,615.9	109.6	830.9	727.9	103.02	8.066	
10,200.0	7,460.6	9,948.5	7,253.9	56.3	54.9	-75.47	-2,715.9	110.7	832.0	725.4	106.59	7.806	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,300.0	7,460.2	10,048.5	7,253.4	58.1	56.7	-75.48	-2,815.9	111.8	833.1	723.0	110.16	7.563	
10,400.0	7,459.9	10,148.4	7,252.9	59.9	58.5	-75.49	-2,915.9	112.9	834.2	720.5	113.75	7.334	
10,500.0	7,459.5	10,248.4	7,252.5	61.7	60.4	-75.50	-3,015.9	114.1	835.3	718.0	117.34	7.119	
10,600.0	7,459.2	10,348.4	7,252.0	63.5	62.2	-75.52	-3,115.9	115.2	836.4	715.5	120.95	6.916	
10,700.0	7,458.8	10,448.4	7,251.5	65.3	64.1	-75.53	-3,215.8	116.3	837.5	713.0	124.56	6.724	
10,800.0	7,458.5	10,548.4	7,251.1	67.2	66.0	-75.54	-3,315.8	117.4	838.6	710.5	128.18	6.543	
10,900.0	7,458.1	10,648.4	7,250.6	69.0	67.8	-75.55	-3,415.8	118.5	839.8	707.9	131.81	6.371	
11,000.0	7,457.8	10,748.4	7,250.1	70.8	69.7	-75.56	-3,515.8	119.6	840.9	705.4	135.44	6.208	
11,100.0	7,457.4	10,848.4	7,249.6	72.7	71.6	-75.57	-3,615.8	120.7	842.0	702.9	139.08	6.054	
11,200.0	7,457.1	10,948.4	7,249.2	74.5	73.4	-75.58	-3,715.8	121.8	843.1	700.3	142.73	5.907	
11,300.0	7,456.7	11,048.4	7,248.7	76.4	75.3	-75.59	-3,815.8	122.9	844.2	697.8	146.38	5.767	
11,400.0	7,456.4	11,148.4	7,248.2	78.2	77.2	-75.60	-3,915.8	124.0	845.3	695.2	150.03	5.634	
11,500.0	7,456.0	11,248.4	7,247.8	80.1	79.1	-75.61	-4,015.7	125.1	846.4	692.7	153.69	5.507	
11,600.0	7,455.7	11,348.4	7,247.3	81.9	81.0	-75.62	-4,115.7	126.3	847.5	690.1	157.35	5.386	
11,700.0	7,455.3	11,448.4	7,246.8	83.8	82.8	-75.63	-4,215.7	127.4	848.6	687.6	161.02	5.270	
11,800.0	7,455.0	11,548.4	7,246.3	85.6	84.7	-75.64	-4,315.7	128.5	849.7	685.0	164.69	5.159	
11,900.0	7,454.6	11,648.4	7,245.9	87.5	86.6	-75.65	-4,415.7	129.6	850.8	682.4	168.36	5.053	
12,000.0	7,454.3	11,748.3	7,245.4	89.4	88.5	-75.67	-4,515.7	130.7	851.9	679.9	172.04	4.952	
12,078.8	7,454.0	11,827.1	7,245.0	90.8	90.0	-75.67	-4,594.4	131.6	852.8	677.8	174.94	4.875	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	3.0	3.0	0.0	0.0	90.00	0.0	89.6	89.6	89.6	0.00	N/A	
100.0	100.0	103.0	103.0	0.1	0.1	90.00	0.0	89.6	89.6	89.4	0.23	387.088	
200.0	200.0	203.0	203.0	0.3	0.3	90.00	0.0	89.6	89.6	88.9	0.68	131.584	CC, ES
300.0	300.0	303.0	303.0	0.6	0.6	165.97	0.0	89.6	91.3	90.2	1.13	80.869	
400.0	399.8	402.8	402.8	0.8	0.8	166.70	0.0	89.6	96.4	94.8	1.58	61.007	
500.0	499.5	502.5	502.5	1.0	1.0	167.76	0.0	89.6	104.9	102.9	2.04	51.520	
600.0	598.7	601.7	601.7	1.3	1.2	168.98	0.0	89.6	116.8	114.3	2.50	46.827	
700.0	697.6	700.6	700.6	1.6	1.5	170.20	0.0	89.6	131.3	128.4	2.95	44.541	
800.0	796.5	799.5	799.5	2.0	1.7	171.19	0.0	89.6	146.0	142.6	3.40	42.896	
900.0	895.4	898.4	898.4	2.3	1.9	172.00	0.0	89.6	160.7	156.8	3.86	41.615	
1,000.0	994.3	997.3	997.3	2.7	2.1	172.68	0.0	89.6	175.4	171.1	4.32	40.593	
1,100.0	1,093.2	1,096.2	1,096.2	3.0	2.4	173.25	0.0	89.6	190.2	185.4	4.78	39.760	
1,200.0	1,192.1	1,195.1	1,195.1	3.4	2.6	173.73	0.0	89.6	204.9	199.7	5.25	39.068	
1,300.0	1,291.0	1,294.0	1,294.0	3.7	2.8	174.16	0.0	89.6	219.7	214.0	5.71	38.484	
1,400.0	1,389.8	1,392.8	1,392.8	4.1	3.0	174.53	0.0	89.6	234.5	228.3	6.17	37.986	
1,500.0	1,488.7	1,486.9	1,486.9	4.5	3.2	174.60	0.9	90.6	250.2	243.5	6.62	37.763	
1,600.0	1,587.6	1,579.8	1,579.7	4.8	3.4	174.16	3.7	93.9	267.9	260.8	7.07	37.871	
1,700.0	1,686.5	1,671.9	1,671.5	5.2	3.6	173.32	8.5	99.3	287.8	280.2	7.53	38.233	
1,800.0	1,785.4	1,764.0	1,763.0	5.5	3.9	172.17	15.1	107.0	309.7	301.8	7.99	38.782	
1,900.0	1,884.3	1,861.2	1,859.5	5.9	4.1	170.98	22.9	115.9	332.6	324.1	8.46	39.310	
2,000.0	1,983.2	1,958.3	1,955.9	6.2	4.3	169.94	30.6	124.8	355.5	346.6	8.94	39.774	
2,100.0	2,082.1	2,055.4	2,052.3	6.6	4.6	169.03	38.3	133.6	378.6	369.2	9.42	40.181	
2,200.0	2,181.0	2,152.6	2,148.7	7.0	4.8	168.22	46.1	142.5	401.7	391.8	9.91	40.537	
2,300.0	2,279.9	2,249.7	2,245.2	7.3	5.1	167.50	53.8	151.4	424.9	414.5	10.40	40.854	
2,400.0	2,378.8	2,346.8	2,341.6	7.7	5.4	166.85	61.5	160.3	448.2	437.3	10.90	41.138	
2,500.0	2,477.6	2,444.0	2,438.0	8.0	5.7	166.27	69.3	169.1	471.5	460.1	11.39	41.392	
2,600.0	2,576.5	2,541.1	2,534.4	8.4	5.9	165.74	77.0	178.0	494.9	483.0	11.89	41.622	
2,700.0	2,675.4	2,638.3	2,630.8	8.8	6.2	165.26	84.7	186.9	518.3	505.9	12.39	41.830	
2,800.0	2,774.3	2,735.4	2,727.3	9.1	6.5	164.82	92.4	195.8	541.7	528.8	12.89	42.020	
2,900.0	2,873.2	2,832.5	2,823.7	9.5	6.8	164.42	100.2	204.6	565.1	551.7	13.39	42.193	
3,000.0	2,972.1	2,929.7	2,920.1	9.8	7.1	164.05	107.9	213.5	588.6	574.7	13.90	42.352	
3,100.0	3,071.0	3,026.8	3,016.5	10.2	7.4	163.70	115.6	222.4	612.1	597.7	14.40	42.499	
3,200.0	3,169.9	3,124.0	3,113.0	10.6	7.6	163.39	123.4	231.3	635.6	620.7	14.91	42.634	
3,300.0	3,268.8	3,221.1	3,209.4	10.9	7.9	163.09	131.1	240.1	659.1	643.7	15.41	42.760	
3,400.0	3,367.7	3,318.2	3,305.8	11.3	8.2	162.82	138.8	249.0	682.7	666.8	15.92	42.876	
3,500.0	3,466.5	3,415.4	3,402.2	11.6	8.5	162.56	146.5	257.9	706.2	689.8	16.43	42.985	
3,600.0	3,565.4	3,512.5	3,498.6	12.0	8.8	162.32	154.3	266.8	729.8	712.9	16.94	43.087	
3,700.0	3,664.3	3,609.6	3,595.1	12.4	9.1	162.10	162.0	275.6	753.4	736.0	17.45	43.181	
3,800.0	3,763.2	3,717.4	3,702.1	12.7	9.4	161.89	170.3	285.2	776.7	758.8	17.97	43.235	
3,900.0	3,862.1	3,842.6	3,826.9	13.1	9.7	161.85	177.1	292.9	797.3	778.8	18.47	43.176	
4,000.0	3,961.0	3,969.4	3,953.5	13.5	9.9	162.06	180.3	296.6	814.4	795.5	18.95	42.986	
4,100.0	4,059.9	4,078.7	4,062.9	13.8	10.1	162.39	180.5	296.9	828.8	809.4	19.39	42.739	
4,200.0	4,158.8	4,177.6	4,161.8	14.2	10.3	162.70	180.5	296.9	843.0	823.2	19.84	42.488	
4,300.0	4,257.7	4,276.5	4,260.7	14.5	10.5	162.99	180.5	296.9	857.2	836.9	20.29	42.241	
4,400.0	4,356.6	4,375.4	4,359.6	14.9	10.7	163.28	180.5	296.9	871.5	850.7	20.75	42.006	
4,500.0	4,455.5	4,474.3	4,458.5	15.3	10.9	163.55	180.5	296.9	885.7	864.5	21.20	41.780	
4,600.0	4,554.3	4,573.2	4,557.3	15.6	11.1	163.82	180.5	296.9	900.0	878.3	21.65	41.564	
4,700.0	4,653.2	4,672.1	4,656.2	16.0	11.3	164.08	180.5	296.9	914.3	892.2	22.11	41.358	
4,800.0	4,752.1	4,771.0	4,755.1	16.3	11.5	164.33	180.5	296.9	928.6	906.0	22.56	41.159	
4,900.0	4,851.0	4,869.9	4,854.0	16.7	11.7	164.58	180.5	296.9	942.9	919.9	23.01	40.969	
5,000.0	4,949.9	4,968.8	4,952.9	17.1	11.9	164.81	180.5	296.9	957.2	933.8	23.47	40.786	
5,100.0	5,048.9	5,067.8	5,051.9	17.4	12.1	165.08	180.5	296.9	970.6	946.7	23.94	40.539	

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

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,148.4	5,167.2	5,151.4	17.6	12.3	165.29	180.5	296.9	980.8	956.4	24.37	40.241	
5,300.0	5,248.1	5,267.0	5,251.1	17.8	12.5	165.43	180.5	296.9	987.6	962.9	24.77	39.868	
5,400.0	5,348.1	5,366.9	5,351.1	17.9	12.7	165.50	180.5	296.9	991.1	965.9	25.14	39.423	
5,500.0	5,448.1	5,466.9	5,451.1	18.1	12.9	89.79	180.5	296.9	991.5	966.0	25.51	38.871	
5,600.0	5,548.1	5,566.9	5,551.1	18.2	13.1	89.79	180.5	296.9	991.5	965.6	25.91	38.275	
5,700.0	5,648.1	5,666.9	5,651.1	18.3	13.3	89.79	180.5	296.9	991.5	965.2	26.30	37.695	
5,800.0	5,748.1	5,766.9	5,751.1	18.5	13.5	89.79	180.5	296.9	991.5	964.8	26.70	37.130	
5,900.0	5,848.1	5,866.9	5,851.1	18.6	13.7	89.79	180.5	296.9	991.5	964.4	27.11	36.579	
6,000.0	5,948.1	5,966.9	5,951.1	18.8	13.9	89.79	180.5	296.9	991.5	964.0	27.51	36.043	
6,100.0	6,048.1	6,066.9	6,051.1	18.9	14.1	89.79	180.5	296.9	991.5	963.6	27.91	35.521	
6,200.0	6,148.1	6,166.9	6,151.1	19.1	14.3	89.79	180.5	296.9	991.5	963.2	28.32	35.011	
6,300.0	6,248.1	6,266.9	6,251.1	19.2	14.5	89.79	180.5	296.9	991.5	962.8	28.73	34.515	
6,400.0	6,348.1	6,366.9	6,351.1	19.4	14.7	89.79	180.5	296.9	991.5	962.4	29.14	34.031	
6,500.0	6,448.1	6,466.9	6,451.1	19.6	14.9	89.79	180.5	296.9	991.5	962.0	29.55	33.560	
6,600.0	6,548.1	6,566.9	6,551.1	19.7	15.2	89.79	180.5	296.9	991.5	961.6	29.96	33.100	
6,700.0	6,648.1	6,666.9	6,651.1	19.9	15.4	89.79	180.5	296.9	991.5	961.2	30.37	32.651	
6,800.0	6,748.1	6,766.9	6,751.1	20.0	15.6	89.79	180.5	296.9	991.5	960.8	30.78	32.215	
6,855.3	6,803.4	6,822.4	6,806.4	20.1	15.7	90.00	176.9	296.9	991.5	960.6	30.97	32.016	
6,900.0	6,848.1	6,866.2	6,849.6	20.2	15.7	90.40	169.9	296.9	991.6	960.5	31.10	31.885	
6,999.9	6,948.0	6,958.3	6,937.7	20.3	15.8	91.92	143.6	296.9	992.2	960.8	31.33	31.670	
7,100.0	7,047.4	7,043.0	7,013.6	20.5	15.9	-86.12	106.0	296.9	994.1	962.6	31.47	31.592	SF
7,200.0	7,143.2	7,123.9	7,079.4	20.6	15.9	-84.30	59.1	296.9	997.0	965.4	31.56	31.592	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	3.0	3.0	0.0	0.0	90.00	0.0	103.6	103.6	103.6	0.00	N/A	
100.0	100.0	103.0	103.0	0.1	0.1	90.00	0.0	103.6	103.6	103.4	0.23	447.571	
200.0	200.0	203.0	203.0	0.3	0.3	90.00	0.0	103.6	103.6	102.9	0.68	152.144	CC, ES
300.0	300.0	303.0	303.0	0.6	0.6	165.94	0.0	103.6	105.3	104.2	1.13	93.271	
400.0	399.8	402.8	402.8	0.8	0.8	166.57	0.0	103.6	110.4	108.8	1.58	69.868	
500.0	499.5	502.5	502.5	1.0	1.0	167.51	0.0	103.6	118.9	116.9	2.04	58.394	
600.0	598.7	601.7	601.7	1.3	1.2	168.62	0.0	103.6	130.8	128.3	2.50	52.428	
700.0	697.6	700.6	700.6	1.6	1.5	169.75	0.0	103.6	145.3	142.3	2.95	49.272	
800.0	796.5	799.5	799.5	2.0	1.7	170.70	0.0	103.6	159.9	156.5	3.40	46.986	
900.0	895.4	898.4	898.4	2.3	1.9	171.49	0.0	103.6	174.6	170.7	3.86	45.213	
1,000.0	994.3	997.3	997.3	2.7	2.1	172.15	0.0	103.6	189.3	185.0	4.32	43.803	
1,100.0	1,093.2	1,096.2	1,096.2	3.0	2.4	172.72	0.0	103.6	204.0	199.3	4.78	42.655	
1,200.0	1,192.1	1,195.1	1,195.1	3.4	2.6	173.21	0.0	103.6	218.8	213.5	5.25	41.704	
1,300.0	1,291.0	1,288.1	1,288.0	3.7	2.8	173.43	0.6	104.8	234.7	229.0	5.69	41.229	SF
1,400.0	1,389.8	1,379.9	1,379.8	4.1	3.0	173.22	2.6	108.6	253.3	247.1	6.14	41.261	
1,500.0	1,488.7	1,470.7	1,470.3	4.5	3.2	172.69	5.8	115.0	274.4	267.8	6.58	41.672	
1,600.0	1,587.6	1,560.4	1,559.4	4.8	3.4	171.92	10.3	123.7	298.1	291.1	7.03	42.375	
1,700.0	1,686.5	1,656.5	1,654.7	5.2	3.6	171.05	15.9	134.7	323.3	315.8	7.50	43.112	
1,800.0	1,785.4	1,753.1	1,750.6	5.5	3.9	170.29	21.6	145.6	348.5	340.6	7.96	43.762	
1,900.0	1,884.3	1,849.8	1,846.5	5.9	4.1	169.64	27.2	156.6	373.9	365.4	8.43	44.324	
2,000.0	1,983.2	1,946.5	1,942.4	6.2	4.4	169.07	32.9	167.6	399.2	390.3	8.91	44.819	
2,100.0	2,082.1	2,043.1	2,038.2	6.6	4.7	168.57	38.5	178.5	424.6	415.2	9.39	45.238	
2,200.0	2,181.0	2,139.8	2,134.1	7.0	5.0	168.13	44.1	189.5	450.0	440.1	9.86	45.619	
2,300.0	2,279.9	2,236.5	2,230.0	7.3	5.2	167.73	49.8	200.5	475.4	465.1	10.35	45.956	
2,400.0	2,378.8	2,333.1	2,325.8	7.7	5.5	167.37	55.4	211.5	500.9	490.1	10.83	46.257	
2,500.0	2,477.6	2,429.8	2,421.7	8.0	5.8	167.05	61.0	222.4	526.4	515.0	11.31	46.527	
2,600.0	2,576.5	2,526.4	2,517.6	8.4	6.1	166.76	66.7	233.4	551.8	540.0	11.80	46.772	
2,700.0	2,675.4	2,623.1	2,613.5	8.8	6.4	166.49	72.3	244.4	577.3	565.0	12.29	46.993	
2,800.0	2,774.3	2,719.8	2,709.3	9.1	6.7	166.25	78.0	255.3	602.8	590.1	12.77	47.195	
2,900.0	2,873.2	2,816.4	2,805.2	9.5	7.0	166.02	83.6	266.3	628.4	615.1	13.26	47.379	
3,000.0	2,972.1	2,913.1	2,901.1	9.8	7.3	165.82	89.2	277.3	653.9	640.1	13.75	47.548	
3,100.0	3,071.0	3,009.7	2,997.0	10.2	7.6	165.63	94.9	288.3	679.4	665.2	14.24	47.704	
3,200.0	3,169.9	3,106.4	3,092.8	10.6	7.9	165.45	100.5	299.2	704.9	690.2	14.73	47.847	
3,300.0	3,268.8	3,203.1	3,188.7	10.9	8.2	165.28	106.1	310.2	730.5	715.3	15.22	47.980	
3,400.0	3,367.7	3,299.7	3,284.6	11.3	8.5	165.13	111.8	321.2	756.0	740.3	15.72	48.104	
3,500.0	3,466.5	3,396.4	3,380.4	11.6	8.8	164.99	117.4	332.1	781.6	765.4	16.21	48.218	
3,600.0	3,565.4	3,493.1	3,476.3	12.0	9.1	164.85	123.0	343.1	807.1	790.4	16.70	48.325	
3,700.0	3,664.3	3,589.7	3,572.2	12.4	9.4	164.73	128.7	354.1	832.7	815.5	17.20	48.425	
3,800.0	3,763.2	3,686.4	3,668.1	12.7	9.7	164.61	134.3	365.1	858.3	840.6	17.69	48.518	
3,900.0	3,862.1	3,783.0	3,763.9	13.1	10.0	164.49	140.0	376.0	883.8	865.7	18.18	48.606	
4,000.0	3,961.0	3,879.7	3,859.8	13.5	10.4	164.39	145.6	387.0	909.4	890.7	18.68	48.688	
4,100.0	4,059.9	3,976.4	3,955.7	13.8	10.7	164.29	151.2	398.0	935.0	915.8	19.17	48.765	
4,200.0	4,158.8	4,073.0	4,051.5	14.2	11.0	164.19	156.9	408.9	960.6	940.9	19.67	48.838	
4,300.0	4,257.7	4,169.7	4,147.4	14.5	11.3	164.10	162.5	419.9	986.1	966.0	20.16	48.907	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

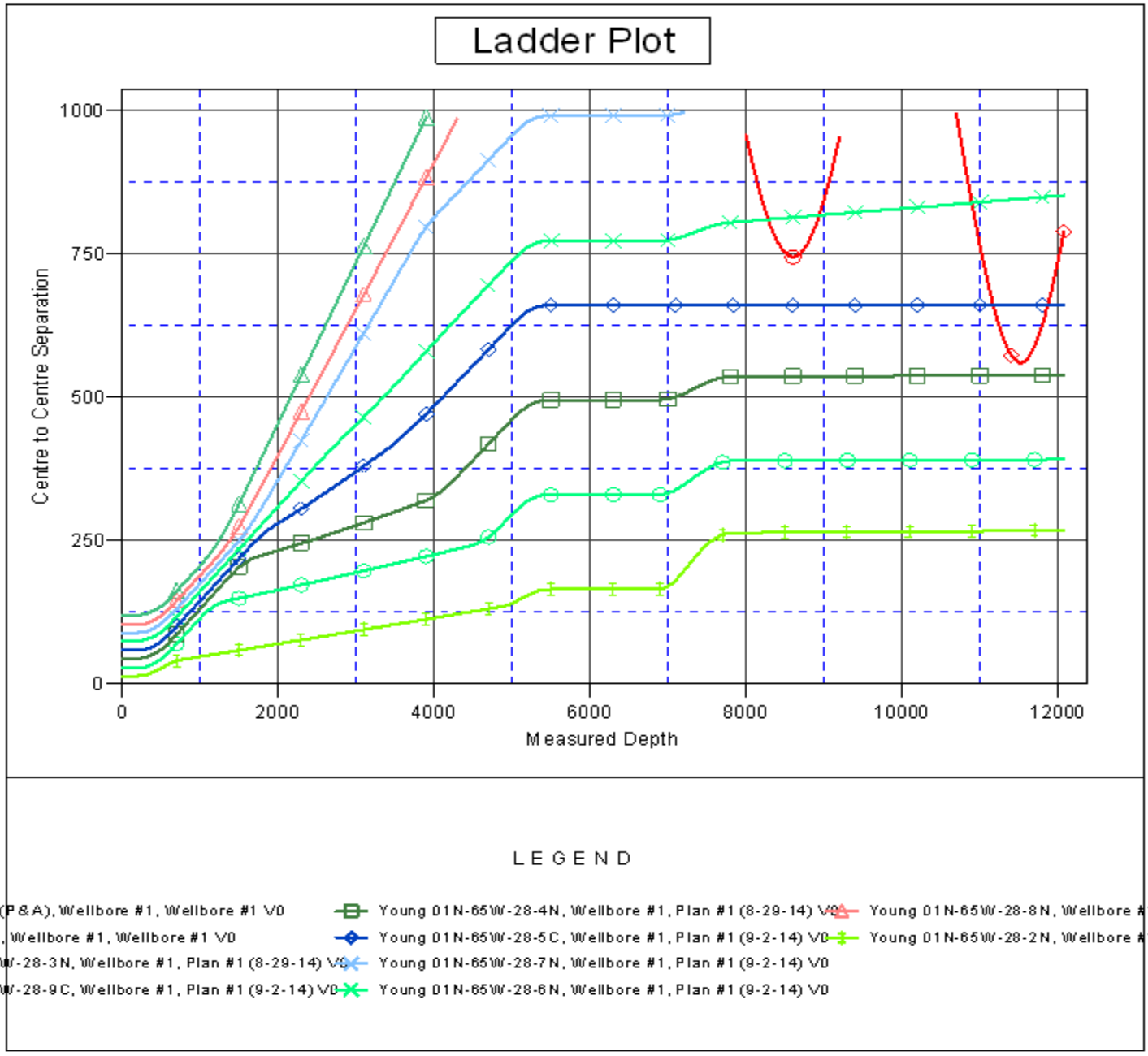
Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	4.0	4.0	0.0	0.0	90.00	0.0	120.4	120.4	120.4	0.00	N/A	
100.0	100.0	104.0	104.0	0.1	0.1	90.00	0.0	120.4	120.4	120.2	0.23	515.148	
200.0	200.0	204.0	204.0	0.3	0.3	90.00	0.0	120.4	120.4	119.7	0.68	176.235	CC, ES
300.0	300.0	304.0	304.0	0.6	0.6	165.90	0.0	120.4	122.1	121.0	1.13	107.940	
400.0	399.8	403.8	403.8	0.8	0.8	166.45	0.0	120.4	127.2	125.6	1.58	80.390	
500.0	499.5	503.5	503.5	1.0	1.0	167.28	0.0	120.4	135.7	133.6	2.04	66.572	
600.0	598.7	602.7	602.7	1.3	1.2	168.27	0.0	120.4	147.6	145.1	2.50	59.101	
700.0	697.6	701.6	701.6	1.6	1.5	169.32	0.0	120.4	162.0	159.1	2.95	54.911	
800.0	796.5	800.5	800.5	2.0	1.7	170.21	0.0	120.4	176.7	173.3	3.41	51.863	
900.0	895.4	899.4	899.4	2.3	1.9	170.96	0.0	120.4	191.3	187.5	3.86	49.505	
1,000.0	994.3	998.3	998.3	2.7	2.1	171.61	0.0	120.4	206.0	201.7	4.33	47.632	
1,100.0	1,093.2	1,090.9	1,090.9	3.0	2.3	171.97	0.5	121.8	222.1	217.3	4.77	46.570	
1,200.0	1,192.1	1,182.4	1,182.3	3.4	2.5	171.96	2.0	125.9	241.0	235.8	5.21	46.244	SF
1,300.0	1,291.0	1,272.9	1,272.5	3.7	2.7	171.67	4.4	132.6	262.8	257.1	5.66	46.451	
1,400.0	1,389.8	1,362.1	1,361.2	4.1	2.9	171.17	7.8	141.9	287.2	281.1	6.10	47.065	
1,500.0	1,488.7	1,452.0	1,450.1	4.5	3.2	170.52	12.1	153.8	314.4	307.8	6.56	47.929	
1,600.0	1,587.6	1,547.9	1,545.0	4.8	3.4	169.88	17.0	167.3	342.3	335.3	7.02	48.762	
1,700.0	1,686.5	1,643.9	1,639.8	5.2	3.7	169.33	21.9	180.7	370.3	362.8	7.48	49.475	
1,800.0	1,785.4	1,739.8	1,734.7	5.5	4.0	168.86	26.8	194.2	398.3	390.4	7.95	50.083	
1,900.0	1,884.3	1,835.7	1,829.6	5.9	4.3	168.45	31.7	207.7	426.4	418.0	8.43	50.602	
2,000.0	1,983.2	1,931.7	1,924.4	6.2	4.6	168.09	36.6	221.1	454.4	445.5	8.90	51.051	
2,100.0	2,082.1	2,027.6	2,019.3	6.6	4.9	167.77	41.5	234.6	482.5	473.1	9.38	51.446	
2,200.0	2,181.0	2,123.6	2,114.2	7.0	5.2	167.49	46.4	248.1	510.6	500.7	9.86	51.794	
2,300.0	2,279.9	2,219.5	2,209.1	7.3	5.6	167.23	51.3	261.6	538.7	528.4	10.34	52.101	
2,400.0	2,378.8	2,315.5	2,303.9	7.7	5.9	167.00	56.2	275.0	566.8	556.0	10.82	52.375	
2,500.0	2,477.6	2,411.4	2,398.8	8.0	6.2	166.80	61.1	288.5	594.9	583.6	11.31	52.620	
2,600.0	2,576.5	2,507.4	2,493.7	8.4	6.5	166.61	66.0	302.0	623.0	611.2	11.79	52.840	
2,700.0	2,675.4	2,603.3	2,588.5	8.8	6.9	166.44	70.9	315.5	651.2	638.9	12.28	53.040	
2,800.0	2,774.3	2,699.3	2,683.4	9.1	7.2	166.28	75.8	328.9	679.3	666.5	12.76	53.221	
2,900.0	2,873.2	2,795.2	2,778.3	9.5	7.5	166.14	80.7	342.4	707.4	694.2	13.25	53.385	
3,000.0	2,972.1	2,891.2	2,873.1	9.8	7.8	166.00	85.6	355.9	735.6	721.8	13.74	53.536	
3,100.0	3,071.0	2,987.1	2,968.0	10.2	8.2	165.88	90.5	369.4	763.7	749.5	14.23	53.674	
3,200.0	3,169.9	3,083.0	3,062.9	10.6	8.5	165.76	95.3	382.8	791.8	777.1	14.72	53.801	
3,300.0	3,268.8	3,179.0	3,157.7	10.9	8.9	165.65	100.2	396.3	820.0	804.8	15.21	53.919	
3,400.0	3,367.7	3,274.9	3,252.6	11.3	9.2	165.55	105.1	409.8	848.1	832.4	15.70	54.027	
3,500.0	3,466.5	3,370.9	3,347.5	11.6	9.5	165.46	110.0	423.3	876.3	860.1	16.19	54.128	
3,600.0	3,565.4	3,466.8	3,442.4	12.0	9.9	165.37	114.9	436.7	904.4	887.8	16.68	54.222	
3,700.0	3,664.3	3,562.8	3,537.2	12.4	10.2	165.29	119.8	450.2	932.6	915.4	17.17	54.309	
3,800.0	3,763.2	3,658.7	3,632.1	12.7	10.5	165.21	124.7	463.7	960.8	943.1	17.66	54.390	
3,900.0	3,862.1	3,754.7	3,727.0	13.1	10.9	165.14	129.6	477.2	988.9	970.8	18.16	54.466	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5083.0ft (Original Well Elev) Coordinates are relative to: Young 01N-65W-28-1C
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.54°



Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-1C
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-1C	**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 #1 (8-29-14)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5083.0ft (Original Well Elev) Coordinates are relative to: Young 01N-65W-28-1C
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.54°