Verdad Oil & Gas Corporation

Well Name: **Young 01N-65W-28-7N**

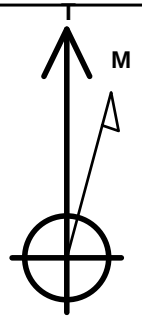
Surface Location: Young 01N-65W-28 Pad Sec.28-T1N-R65W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 5073.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1254521.08	3234049.27	40.029020	-104.664200	

Original Well Elev WELL @ 5086.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 230'FNL & 1290'FEL	1.0	0.0	0.0	Point
BHL 460'FSL & 1060'FEL	7246.0	-4597.3	207.3	Point



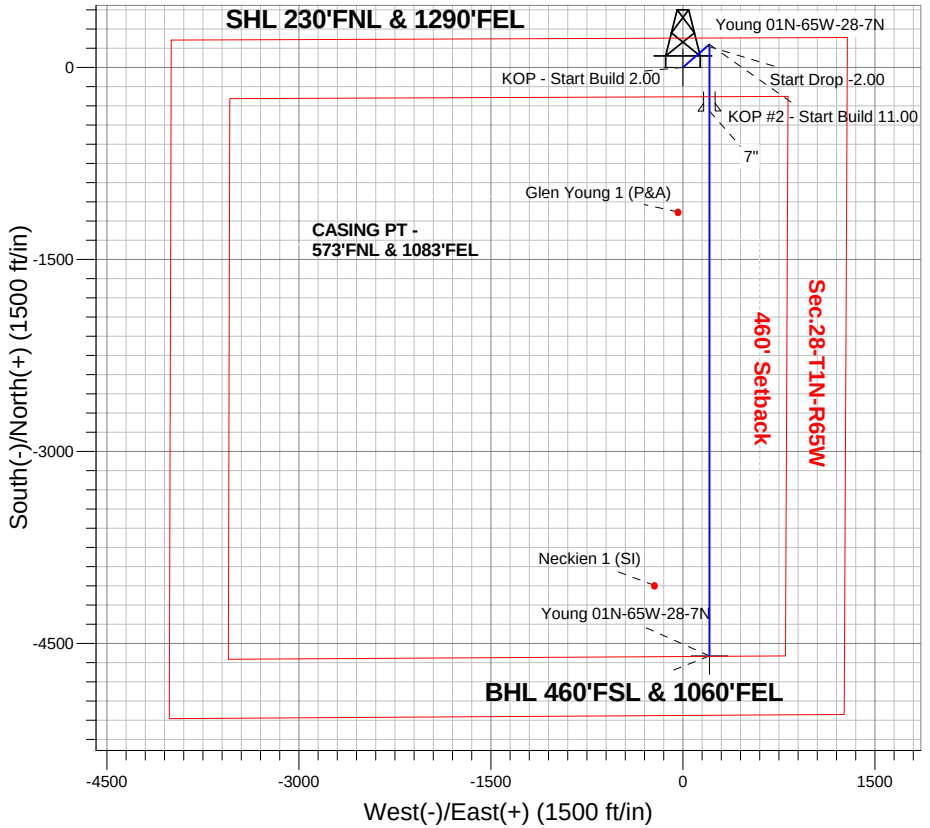
Azimuths to True North
Magnetic North: 8.35°

Magnetic Field
Strength: 52606.1snT
Dip Angle: 66.66°
Date: 9/2/2014
Model: IGRF2010

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

ANNOTATIONS

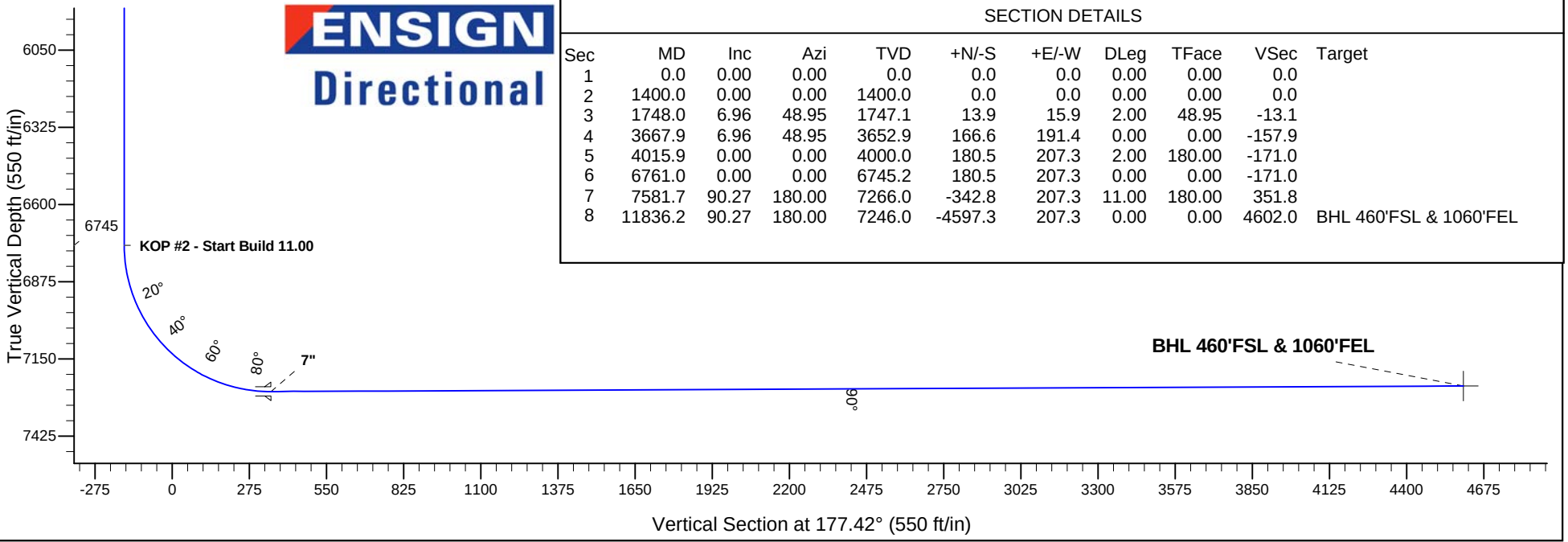
TVD	MD	Annotation
1400.0	1400.0	KOP - Start Build 2.00
3652.9	3667.9	Start Drop -2.00
6745.2	6761.0	KOP #2 - Start Build 11.00
7246.0	11836.2	TD at 11836.2



ENSIGN Directional

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
3	1748.0	6.96	48.95	1747.1	13.9	15.9	2.00	48.95	-13.1	
4	3667.9	6.96	48.95	3652.9	166.6	191.4	0.00	0.00	-157.9	
5	4015.9	0.00	0.00	4000.0	180.5	207.3	2.00	180.00	-171.0	
6	6761.0	0.00	0.00	6745.2	180.5	207.3	0.00	0.00	-171.0	
7	7581.7	90.27	180.00	7266.0	-342.8	207.3	11.00	180.00	351.8	
8	11836.2	90.27	180.00	7246.0	-4597.3	207.3	0.00	0.00	4602.0	BHL 460'FSL & 1060'FEL



Verdad Oil & Gas Corporation

SEC.28-T1N-R65W
Young 01N-65W-28 Pad Sec.28-T1N-R65W
Young 01N-65W-28-7N

Wellbore #1

Plan: Plan #1 (9-2-14)

Standard Planning Report

11 September, 2014

Database:	Landmark	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Company:	Verdad Oil & Gas Corporation	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**North Reference:**	True
Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-2-14)		

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-28-7N

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,254,521.08 ft	**Latitude:**	40.029020
	+E/-W	89.6 ft	**Easting:**	3,234,049.27 ft	**Longitude:**	-104.664200
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,073.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/2/2014	8.35	66.66	52,606

Design Plan #1 (9-2-14)

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	177.42

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,748.0	6.96	48.95	1,747.1	13.9	15.9	2.00	2.00	0.00	48.95	
3,667.9	6.96	48.95	3,652.9	166.6	191.4	0.00	0.00	0.00	0.00	
4,015.9	0.00	0.00	4,000.0	180.5	207.3	2.00	-2.00	0.00	180.00	
6,761.0	0.00	0.00	6,745.2	180.5	207.3	0.00	0.00	0.00	0.00	
7,581.7	90.27	180.00	7,266.0	-342.8	207.3	11.00	11.00	0.00	180.00	
11,836.2	90.27	180.00	7,246.0	-4,597.3	207.3	0.00	0.00	0.00	0.00	BHL 460'FSL & 106

Database:	Landmark	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Company:	Verdad Oil & Gas Corporation	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**North Reference:**	True
Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-2-14)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 2.00									
1,500.0	2.00	48.95	1,500.0	1.1	1.3	-1.1	2.00	2.00	0.00
1,600.0	4.00	48.95	1,599.8	4.6	5.3	-4.3	2.00	2.00	0.00
1,700.0	6.00	48.95	1,699.5	10.3	11.8	-9.8	2.00	2.00	0.00
1,748.0	6.96	48.95	1,747.1	13.9	15.9	-13.1	2.00	2.00	0.00
1,800.0	6.96	48.95	1,798.8	18.0	20.7	-17.1	0.00	0.00	0.00
1,900.0	6.96	48.95	1,898.0	26.0	29.8	-24.6	0.00	0.00	0.00
2,000.0	6.96	48.95	1,997.3	33.9	38.9	-32.1	0.00	0.00	0.00
2,100.0	6.96	48.95	2,096.6	41.9	48.1	-39.7	0.00	0.00	0.00
2,200.0	6.96	48.95	2,195.8	49.8	57.2	-47.2	0.00	0.00	0.00
2,300.0	6.96	48.95	2,295.1	57.8	66.4	-54.7	0.00	0.00	0.00
2,400.0	6.96	48.95	2,394.3	65.7	75.5	-62.3	0.00	0.00	0.00
2,500.0	6.96	48.95	2,493.6	73.7	84.6	-69.8	0.00	0.00	0.00
2,600.0	6.96	48.95	2,592.9	81.7	93.8	-77.4	0.00	0.00	0.00
2,700.0	6.96	48.95	2,692.1	89.6	102.9	-84.9	0.00	0.00	0.00
2,800.0	6.96	48.95	2,791.4	97.6	112.0	-92.4	0.00	0.00	0.00
2,900.0	6.96	48.95	2,890.7	105.5	121.2	-100.0	0.00	0.00	0.00
3,000.0	6.96	48.95	2,989.9	113.5	130.3	-107.5	0.00	0.00	0.00
3,100.0	6.96	48.95	3,089.2	121.4	139.5	-115.0	0.00	0.00	0.00
3,200.0	6.96	48.95	3,188.4	129.4	148.6	-122.6	0.00	0.00	0.00
3,300.0	6.96	48.95	3,287.7	137.4	157.7	-130.1	0.00	0.00	0.00
3,400.0	6.96	48.95	3,387.0	145.3	166.9	-137.7	0.00	0.00	0.00
3,500.0	6.96	48.95	3,486.2	153.3	176.0	-145.2	0.00	0.00	0.00
3,600.0	6.96	48.95	3,585.5	161.2	185.2	-152.7	0.00	0.00	0.00
3,667.9	6.96	48.95	3,652.9	166.6	191.4	-157.9	0.00	0.00	0.00
Start Drop -2.00									
3,700.0	6.32	48.95	3,684.8	169.1	194.2	-160.2	2.00	-2.00	0.00
3,800.0	4.32	48.95	3,784.3	175.2	201.1	-165.9	2.00	-2.00	0.00
3,900.0	2.32	48.95	3,884.2	179.0	205.5	-169.5	2.00	-2.00	0.00
4,000.0	0.32	48.95	3,984.1	180.5	207.2	-171.0	2.00	-2.00	0.00
4,015.9	0.00	0.00	4,000.0	180.5	207.3	-171.0	2.00	-2.00	0.00
4,100.0	0.00	0.00	4,084.1	180.5	207.3	-171.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,184.1	180.5	207.3	-171.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,284.1	180.5	207.3	-171.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,384.1	180.5	207.3	-171.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,484.1	180.5	207.3	-171.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,584.1	180.5	207.3	-171.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,684.1	180.5	207.3	-171.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,784.1	180.5	207.3	-171.0	0.00	0.00	0.00

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Project:	SEC.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**North Reference:**	True
Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-2-14)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,900.0	0.00	0.00	4,884.1	180.5	207.3	-171.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,984.1	180.5	207.3	-171.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,084.1	180.5	207.3	-171.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,184.1	180.5	207.3	-171.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,284.1	180.5	207.3	-171.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,384.1	180.5	207.3	-171.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,484.1	180.5	207.3	-171.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,584.1	180.5	207.3	-171.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,684.1	180.5	207.3	-171.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,784.1	180.5	207.3	-171.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,884.1	180.5	207.3	-171.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,984.1	180.5	207.3	-171.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,084.1	180.5	207.3	-171.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,184.1	180.5	207.3	-171.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,284.1	180.5	207.3	-171.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,384.1	180.5	207.3	-171.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,484.1	180.5	207.3	-171.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,584.1	180.5	207.3	-171.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,684.1	180.5	207.3	-171.0	0.00	0.00	0.00
6,761.0	0.00	0.00	6,745.1	180.5	207.3	-171.0	0.00	0.00	0.00
KOP #2 - Start Build 11.00									
6,800.0	4.29	180.00	6,784.1	179.0	207.3	-169.5	10.99	10.99	0.00
6,900.0	15.29	180.00	6,882.5	162.1	207.3	-152.6	11.00	11.00	0.00
7,000.0	26.29	180.00	6,975.8	126.6	207.3	-117.2	11.00	11.00	0.00
7,100.0	37.29	180.00	7,060.7	74.0	207.3	-64.6	11.00	11.00	0.00
7,200.0	48.29	180.00	7,134.0	6.2	207.3	3.1	11.00	11.00	0.00
7,300.0	59.29	180.00	7,193.0	-74.3	207.3	83.6	11.00	11.00	0.00
7,400.0	70.29	180.00	7,235.5	-164.7	207.3	173.8	11.00	11.00	0.00
7,500.0	81.29	180.00	7,260.0	-261.5	207.3	270.5	11.00	11.00	0.00
7,581.7	90.27	180.00	7,266.0	-342.8	207.3	351.8	11.00	11.00	0.00
7"									
7,600.0	90.27	180.00	7,266.0	-361.1	207.3	370.1	0.00	0.00	0.00
7,700.0	90.27	180.00	7,265.5	-461.1	207.3	470.0	0.00	0.00	0.00
7,800.0	90.27	180.00	7,265.0	-561.1	207.3	569.9	0.00	0.00	0.00
7,900.0	90.27	180.00	7,264.5	-661.1	207.3	669.8	0.00	0.00	0.00
8,000.0	90.27	180.00	7,264.1	-761.1	207.3	769.7	0.00	0.00	0.00
8,100.0	90.27	180.00	7,263.6	-861.1	207.3	869.6	0.00	0.00	0.00
8,200.0	90.27	180.00	7,263.1	-961.1	207.3	969.5	0.00	0.00	0.00
8,300.0	90.27	180.00	7,262.7	-1,061.1	207.3	1,069.4	0.00	0.00	0.00
8,400.0	90.27	180.00	7,262.2	-1,161.1	207.3	1,169.3	0.00	0.00	0.00
8,500.0	90.27	180.00	7,261.7	-1,261.1	207.3	1,269.2	0.00	0.00	0.00
8,600.0	90.27	180.00	7,261.3	-1,361.1	207.3	1,369.1	0.00	0.00	0.00
8,700.0	90.27	180.00	7,260.8	-1,461.1	207.3	1,469.0	0.00	0.00	0.00
8,800.0	90.27	180.00	7,260.3	-1,561.1	207.3	1,568.9	0.00	0.00	0.00
8,900.0	90.27	180.00	7,259.8	-1,661.1	207.3	1,668.8	0.00	0.00	0.00
9,000.0	90.27	180.00	7,259.4	-1,761.1	207.3	1,768.7	0.00	0.00	0.00
9,100.0	90.27	180.00	7,258.9	-1,861.1	207.3	1,868.6	0.00	0.00	0.00
9,200.0	90.27	180.00	7,258.4	-1,961.1	207.3	1,968.5	0.00	0.00	0.00
9,300.0	90.27	180.00	7,258.0	-2,061.1	207.3	2,068.4	0.00	0.00	0.00
9,400.0	90.27	180.00	7,257.5	-2,161.1	207.3	2,168.3	0.00	0.00	0.00
9,500.0	90.27	180.00	7,257.0	-2,261.1	207.3	2,268.2	0.00	0.00	0.00
9,600.0	90.27	180.00	7,256.5	-2,361.1	207.3	2,368.1	0.00	0.00	0.00
9,700.0	90.27	180.00	7,256.1	-2,461.1	207.3	2,468.0	0.00	0.00	0.00
9,800.0	90.27	180.00	7,255.6	-2,561.1	207.3	2,567.9	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Company:	Verdad Oil & Gas Corporation	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**North Reference:**	True
Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-2-14)		

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)
9,900.0	90.27	180.00	7,255.1	-2,661.1	207.3	2,667.8	0.00	0.00	0.00
10,000.0	90.27	180.00	7,254.7	-2,761.1	207.3	2,767.7	0.00	0.00	0.00
10,100.0	90.27	180.00	7,254.2	-2,861.1	207.3	2,867.6	0.00	0.00	0.00
10,200.0	90.27	180.00	7,253.7	-2,961.1	207.3	2,967.5	0.00	0.00	0.00
10,300.0	90.27	180.00	7,253.2	-3,061.1	207.3	3,067.3	0.00	0.00	0.00
10,400.0	90.27	180.00	7,252.8	-3,161.1	207.3	3,167.2	0.00	0.00	0.00
10,500.0	90.27	180.00	7,252.3	-3,261.1	207.3	3,267.1	0.00	0.00	0.00
10,600.0	90.27	180.00	7,251.8	-3,361.1	207.3	3,367.0	0.00	0.00	0.00
10,700.0	90.27	180.00	7,251.4	-3,461.1	207.3	3,466.9	0.00	0.00	0.00
10,800.0	90.27	180.00	7,250.9	-3,561.1	207.3	3,566.8	0.00	0.00	0.00
10,900.0	90.27	180.00	7,250.4	-3,661.1	207.3	3,666.7	0.00	0.00	0.00
11,000.0	90.27	180.00	7,249.9	-3,761.1	207.3	3,766.6	0.00	0.00	0.00
11,100.0	90.27	180.00	7,249.5	-3,861.1	207.3	3,866.5	0.00	0.00	0.00
11,200.0	90.27	180.00	7,249.0	-3,961.1	207.3	3,966.4	0.00	0.00	0.00
11,300.0	90.27	180.00	7,248.5	-4,061.1	207.3	4,066.3	0.00	0.00	0.00
11,400.0	90.27	180.00	7,248.1	-4,161.1	207.3	4,166.2	0.00	0.00	0.00
11,500.0	90.27	180.00	7,247.6	-4,261.1	207.3	4,266.1	0.00	0.00	0.00
11,600.0	90.27	180.00	7,247.1	-4,361.1	207.3	4,366.0	0.00	0.00	0.00
11,700.0	90.27	180.00	7,246.6	-4,461.1	207.3	4,465.9	0.00	0.00	0.00
11,800.0	90.27	180.00	7,246.2	-4,561.1	207.3	4,565.8	0.00	0.00	0.00
11,836.2	90.27	180.00	7,246.0	-4,597.3	207.3	4,602.0	0.00	0.00	0.00
TD at 11836.2									

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 & 1060'I - plan hits target center - Point	0.00	0.00	7,246.0	-4,597.3	207.3	1,249,926.10	3,234,299.85	40.016400	-104.663460
SHL 230'FNL & 1290' - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,254,521.09	3,234,049.27	40.029020	-104.664200

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,581.7	7,266.0	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,400.0	1,400.0	0.0	0.0	KOP - Start Build 2.00
3,667.9	3,652.9	13.9	15.9	Start Drop -2.00
6,761.0	6,745.2	166.6	191.4	KOP #2 - Start Build 11.00
11,836.2	7,246.0	180.5	207.3	TD at 11836.2

ENSIGN
Directional

Verdad Oil & Gas Corporation

SEC.28-T1N-R65W
Young 01N-65W-28 Pad Sec.28-T1N-R65W
Young 01N-65W-28-7N

Wellbore #1
Plan #1 (9-2-14)

Anticollision Report

11 September, 2014

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**Offset TVD Reference:**	Offset Datum

Reference Plan #1 (9-2-14)

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	11,835.5	Plan #1 (9-2-14) (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	8,368.2	7,236.3	246.5	74.7	1.435	Level 3, CC, ES, SF
Neckien 1 (SI) - Wellbore #1 - Wellbore #1	11,286.1	7,216.6	431.3	207.6	1.928	CC
Neckien 1 (SI) - Wellbore #1 - Wellbore #1	11,300.0	7,216.5	431.6	207.5	1.926	ES, SF
Young 01N-65W-28 Pad Sec.28-T1N-R65W						
Young 01N-65W-28-1C - Wellbore #1 - Plan #1 (8-29-14	200.0	197.0	89.6	88.9	134.243	CC, ES
Young 01N-65W-28-1C - Wellbore #1 - Plan #1 (8-29-14	7,100.0	7,133.7	995.5	964.0	31.638	SF
Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14	400.0	397.0	75.6	74.0	48.265	CC, ES
Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14	11,836.2	11,849.5	826.3	646.7	4.601	SF
Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14	1,000.0	998.0	61.6	57.3	14.442	CC, ES
Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14	11,836.2	11,840.6	661.0	481.5	3.683	SF
Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14	1,400.0	1,398.0	44.8	38.7	7.389	CC, ES
Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14	11,836.2	11,836.2	495.8	316.3	2.762	SF
Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)	1,400.0	1,399.0	30.8	24.7	5.078	CC, ES
Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)	11,836.2	12,036.6	392.1	235.8	2.509	SF
Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14)	1,400.0	1,399.0	14.0	7.9	2.308	CC
Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14)	11,836.2	11,831.8	165.3	-14.5	0.920	Level 1, ES, SF
Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14)	1,200.0	1,200.0	14.0	8.8	2.709	CC
Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14)	11,836.2	11,849.6	165.3	-14.1	0.922	Level 1, ES, SF
Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14)	966.3	967.3	30.8	26.7	7.474	CC
Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14)	1,000.0	1,001.0	30.8	26.5	7.210	ES
Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14)	11,836.2	12,069.8	392.1	237.2	2.532	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
7,400.0	7,235.5	7,209.5	7,209.5	16.3	144.2	37.14	-1,129.3	-39.2	995.6	888.4	107.25	9.283	
7,500.0	7,260.0	7,234.0	7,234.0	16.8	144.7	61.92	-1,129.3	-39.2	902.2	759.1	143.04	6.307	
7,600.0	7,266.0	7,240.0	7,240.0	17.5	144.8	90.84	-1,129.3	-39.2	806.7	644.6	162.11	4.976	
7,700.0	7,265.5	7,239.5	7,239.5	18.4	144.8	90.73	-1,129.3	-39.2	712.2	549.2	162.99	4.369	
7,800.0	7,265.0	7,239.0	7,239.0	19.5	144.8	90.62	-1,129.3	-39.2	619.3	455.3	164.02	3.776	
7,900.0	7,264.5	7,238.5	7,238.5	20.6	144.8	90.51	-1,129.3	-39.2	529.1	363.9	165.18	3.203	

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-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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
8,000.0	7,264.1	7,238.1	7,238.1	21.9	144.8	90.40	-1,129.3	-39.2	443.0	276.6	166.44	2.662	
8,100.0	7,263.6	7,237.6	7,237.6	23.2	144.8	90.29	-1,129.3	-39.2	364.2	196.4	167.80	2.171	
8,200.0	7,263.1	7,237.1	7,237.1	24.7	144.7	90.18	-1,129.3	-39.2	298.4	129.2	169.22	1.763	
8,300.0	7,262.7	7,236.7	7,236.7	26.1	144.7	90.07	-1,129.3	-39.2	255.7	85.0	170.71	1.498	Level 3
8,368.2	7,262.3	7,236.3	7,236.3	27.2	144.7	90.00	-1,129.3	-39.2	246.5	74.7	171.76	1.435	Level 3, CC, ES, SF
8,400.0	7,262.2	7,236.2	7,236.2	27.7	144.7	89.97	-1,129.3	-39.2	248.5	76.3	172.25	1.443	Level 3
8,500.0	7,261.7	7,235.7	7,235.7	29.3	144.7	89.86	-1,129.3	-39.2	279.5	105.7	173.83	1.608	
8,600.0	7,261.3	7,235.3	7,235.3	30.9	144.7	89.75	-1,129.3	-39.2	338.4	162.9	175.45	1.929	
8,700.0	7,260.8	7,234.8	7,234.8	32.6	144.7	89.64	-1,129.3	-39.2	413.4	236.3	177.10	2.334	
8,800.0	7,260.3	7,234.3	7,234.3	34.2	144.7	89.53	-1,129.3	-39.2	497.2	318.5	178.77	2.781	
8,900.0	7,259.8	7,233.8	7,233.8	35.9	144.7	89.42	-1,129.3	-39.2	586.2	405.7	180.47	3.248	
9,000.0	7,259.4	7,233.4	7,233.4	37.7	144.7	89.31	-1,129.3	-39.2	678.2	496.0	182.19	3.723	
9,100.0	7,258.9	7,232.9	7,232.9	39.4	144.7	89.20	-1,129.3	-39.2	772.2	588.3	183.92	4.199	
9,200.0	7,258.4	7,232.4	7,232.4	41.2	144.6	89.09	-1,129.3	-39.2	867.6	681.9	185.66	4.673	
9,300.0	7,258.0	7,232.0	7,232.0	42.9	144.6	88.98	-1,129.3	-39.2	963.9	776.5	187.42	5.143	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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
10,400.0	7,252.8	7,220.8	7,220.8	63.0	144.4	90.55	-4,047.2	-224.1	985.5	778.2	207.32	4.754	
10,500.0	7,252.3	7,220.3	7,220.3	64.8	144.4	90.49	-4,047.2	-224.1	896.7	687.5	209.16	4.287	
10,600.0	7,251.8	7,219.8	7,219.8	66.7	144.4	90.43	-4,047.2	-224.1	810.5	599.4	211.02	3.841	
10,700.0	7,251.4	7,219.4	7,219.4	68.6	144.4	90.37	-4,047.2	-224.1	727.7	514.9	212.87	3.419	
10,800.0	7,250.9	7,218.9	7,218.9	70.4	144.4	90.30	-4,047.2	-224.1	649.9	435.2	214.73	3.027	
10,900.0	7,250.4	7,218.4	7,218.4	72.3	144.4	90.24	-4,047.2	-224.1	578.9	362.3	216.59	2.673	
11,000.0	7,249.9	7,217.9	7,217.9	74.2	144.4	90.18	-4,047.2	-224.1	517.6	299.2	218.45	2.370	
11,100.0	7,249.5	7,217.5	7,217.5	76.0	144.3	90.12	-4,047.2	-224.1	469.8	249.5	220.31	2.132	
11,200.0	7,249.0	7,217.0	7,217.0	77.9	144.3	90.05	-4,047.2	-224.1	439.9	217.7	222.18	1.980	
11,286.1	7,248.6	7,216.6	7,216.6	79.5	144.3	90.00	-4,047.2	-224.1	431.3	207.6	223.78	1.928	CC
11,300.0	7,248.5	7,216.5	7,216.5	79.8	144.3	89.99	-4,047.2	-224.1	431.6	207.5	224.04	1.926	ES, SF
11,400.0	7,248.1	7,216.1	7,216.1	81.7	144.3	89.93	-4,047.2	-224.1	446.1	220.2	225.91	1.975	
11,500.0	7,247.6	7,215.6	7,215.6	83.5	144.3	89.87	-4,047.2	-224.1	481.4	253.7	227.78	2.114	
11,600.0	7,247.1	7,215.1	7,215.1	85.4	144.3	89.80	-4,047.2	-224.1	533.4	303.8	229.65	2.323	
11,700.0	7,246.6	7,214.6	7,214.6	87.3	144.3	89.74	-4,047.2	-224.1	597.8	366.3	231.52	2.582	
11,800.0	7,246.2	7,214.2	7,214.2	89.2	144.3	89.68	-4,047.2	-224.1	670.9	437.5	233.40	2.874	
11,836.2	7,246.0	7,214.0	7,214.0	89.7	144.3	89.66	-4,047.2	-224.1	699.0	465.1	233.95	2.988	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-1C - 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	-90.00	0.0	-89.6	89.7				
100.0	100.0	97.0	97.0	0.1	0.1	-90.00	0.0	-89.6	89.6	89.4	0.22	404.761	
200.0	200.0	197.0	197.0	0.3	0.3	-90.00	0.0	-89.6	89.6	88.9	0.67	134.243	CC, ES
300.0	300.0	294.1	294.1	0.6	0.5	-89.76	0.4	-91.1	91.2	90.1	1.10	82.583	
400.0	400.0	390.9	390.8	0.8	0.8	-89.06	1.6	-95.8	96.0	94.4	1.55	62.086	
500.0	500.0	487.3	486.8	1.0	1.0	-88.04	3.5	-103.6	104.1	102.1	2.01	51.893	
600.0	600.0	583.0	581.9	1.2	1.3	-86.84	6.3	-114.4	115.6	113.1	2.49	46.426	
700.0	700.0	680.2	678.0	1.5	1.6	-85.63	9.8	-128.0	129.8	126.8	3.00	43.275	
800.0	800.0	779.1	775.8	1.7	1.9	-84.62	13.4	-142.3	144.5	141.0	3.52	41.000	
900.0	900.0	877.9	873.6	1.9	2.3	-83.79	17.0	-156.5	159.2	155.1	4.05	39.280	
1,000.0	1,000.0	976.8	971.4	2.1	2.6	-83.10	20.7	-170.8	173.9	169.3	4.58	37.942	
1,100.0	1,100.0	1,075.7	1,069.2	2.4	2.9	-82.52	24.3	-185.0	188.6	183.5	5.12	36.874	
1,200.0	1,200.0	1,174.6	1,167.0	2.6	3.3	-82.03	27.9	-199.2	203.4	197.8	5.65	36.005	
1,300.0	1,300.0	1,273.5	1,264.8	2.8	3.6	-81.60	31.5	-213.5	218.2	212.0	6.18	35.285	
1,400.0	1,400.0	1,372.4	1,362.6	3.0	4.0	-81.22	35.2	-227.7	233.0	226.2	6.72	34.680	
1,500.0	1,500.0	1,471.1	1,460.2	3.3	4.3	-129.91	38.8	-241.9	248.9	242.3	6.59	37.764	
1,600.0	1,599.8	1,569.4	1,557.4	3.5	4.7	-130.19	42.4	-256.1	267.0	259.9	7.04	37.946	
1,700.0	1,699.5	1,667.2	1,654.1	3.7	5.1	-130.91	46.0	-270.1	287.4	279.9	7.48	38.417	
1,800.0	1,798.8	1,764.4	1,750.2	3.9	5.4	-132.06	49.5	-284.1	309.8	301.9	7.93	39.042	
1,900.0	1,898.0	1,861.6	1,846.3	4.2	5.7	-133.26	53.1	-298.1	332.6	324.2	8.41	39.574	
2,000.0	1,997.3	1,958.7	1,942.3	4.4	6.1	-134.30	56.7	-312.1	355.6	346.7	8.88	40.034	
2,100.0	2,096.6	2,055.8	2,038.4	4.7	6.4	-135.21	60.2	-326.1	378.6	369.3	9.36	40.434	
2,200.0	2,195.8	2,153.0	2,134.5	5.0	6.8	-136.02	63.8	-340.1	401.8	391.9	9.85	40.786	
2,300.0	2,295.1	2,250.1	2,230.5	5.3	7.1	-136.74	67.3	-354.0	425.0	414.6	10.34	41.097	
2,400.0	2,394.3	2,347.3	2,326.6	5.5	7.5	-137.38	70.9	-368.0	448.3	437.4	10.83	41.374	
2,500.0	2,493.6	2,444.4	2,422.7	5.8	7.8	-137.97	74.5	-382.0	471.6	460.2	11.33	41.622	
2,600.0	2,592.9	2,541.5	2,518.7	6.1	8.2	-138.49	78.0	-396.0	494.9	483.1	11.83	41.845	
2,700.0	2,692.1	2,638.7	2,614.8	6.4	8.5	-138.98	81.6	-410.0	518.3	506.0	12.33	42.048	
2,800.0	2,791.4	2,735.8	2,710.8	6.7	8.9	-139.41	85.1	-424.0	541.7	528.9	12.83	42.232	
2,900.0	2,890.7	2,832.9	2,806.9	7.0	9.2	-139.82	88.7	-437.9	565.2	551.8	13.33	42.400	
3,000.0	2,989.9	2,930.1	2,903.0	7.3	9.6	-140.19	92.3	-451.9	588.7	574.8	13.83	42.554	
3,100.0	3,089.2	3,027.2	2,999.0	7.6	9.9	-140.53	95.8	-465.9	612.1	597.8	14.34	42.696	
3,200.0	3,188.4	3,124.4	3,095.1	7.9	10.3	-140.85	99.4	-479.9	635.7	620.8	14.84	42.827	
3,300.0	3,287.7	3,221.5	3,191.1	8.2	10.6	-141.14	102.9	-493.9	659.2	643.8	15.35	42.948	
3,400.0	3,387.0	3,318.6	3,287.2	8.5	11.0	-141.41	106.5	-507.9	682.7	666.9	15.86	43.060	
3,500.0	3,486.2	3,415.8	3,383.3	8.8	11.3	-141.67	110.1	-521.8	706.3	689.9	16.36	43.165	
3,600.0	3,585.5	3,512.9	3,479.3	9.1	11.7	-141.91	113.6	-535.8	729.9	713.0	16.87	43.263	
3,700.0	3,684.8	3,610.1	3,575.4	9.4	12.0	-142.22	117.2	-549.8	753.3	735.9	17.39	43.319	
3,800.0	3,784.3	3,707.8	3,672.0	9.6	12.4	-142.56	120.8	-563.9	774.7	756.8	17.89	43.293	
3,900.0	3,884.2	3,806.0	3,769.1	9.8	12.8	-142.71	124.4	-578.0	793.4	775.0	18.37	43.178	
4,000.0	3,984.1	3,904.7	3,866.7	10.0	13.1	-142.68	128.0	-592.2	809.3	790.5	18.83	42.985	
4,100.0	4,084.1	4,003.5	3,964.5	10.1	13.5	-93.44	131.6	-606.4	823.5	804.2	19.26	42.752	
4,200.0	4,184.1	4,102.4	4,062.3	10.3	13.8	-93.13	135.2	-620.7	837.7	817.9	19.71	42.493	
4,300.0	4,284.1	4,201.3	4,160.1	10.5	14.2	-92.83	138.9	-634.9	851.9	831.7	20.16	42.246	
4,400.0	4,384.1	4,300.2	4,257.9	10.7	14.5	-92.54	142.5	-649.1	866.1	845.5	20.62	42.010	
4,500.0	4,484.1	4,399.1	4,355.7	10.9	14.9	-92.26	146.1	-663.4	880.3	859.3	21.07	41.785	
4,600.0	4,584.1	4,498.0	4,453.5	11.1	15.2	-91.99	149.7	-677.6	894.6	873.1	21.52	41.569	
4,700.0	4,684.1	4,596.9	4,551.3	11.3	15.6	-91.73	153.4	-691.9	908.9	886.9	21.97	41.363	
4,800.0	4,784.1	4,695.8	4,649.1	11.5	16.0	-91.47	157.0	-706.1	923.2	900.7	22.43	41.165	
4,900.0	4,884.1	4,794.7	4,746.9	11.7	16.3	-91.23	160.6	-720.3	937.5	914.6	22.88	40.974	
5,000.0	4,984.1	4,893.6	4,844.7	11.9	16.7	-90.99	164.2	-734.6	951.8	928.5	23.33	40.792	
5,100.0	5,084.1	4,992.5	4,942.4	12.1	17.0	-90.76	167.9	-748.8	966.2	942.4	23.79	40.616	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**Offset TVD Reference:**	Offset Datum

Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-1C - 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	5,184.1	5,124.2	5,073.0	12.3	17.4	-90.48	172.3	-766.1	979.4	955.1	24.29	40.326	
5,300.0	5,284.1	5,273.4	5,221.6	12.5	17.7	-90.29	175.5	-778.9	987.9	963.2	24.77	39.887	
5,400.0	5,384.1	5,423.6	5,371.6	12.7	18.0	-90.21	176.9	-784.1	991.4	966.2	25.23	39.290	
5,500.0	5,484.1	5,533.1	5,481.1	12.9	18.1	-90.21	176.9	-784.3	991.5	965.9	25.64	38.672	
5,600.0	5,584.1	5,633.1	5,581.1	13.1	18.3	-90.21	176.9	-784.3	991.5	965.5	26.04	38.081	
5,700.0	5,684.1	5,733.1	5,681.1	13.3	18.4	-90.21	176.9	-784.3	991.5	965.1	26.44	37.506	
5,800.0	5,784.1	5,833.1	5,781.1	13.6	18.5	-90.21	176.9	-784.3	991.5	964.7	26.84	36.946	
5,900.0	5,884.1	5,933.1	5,881.1	13.8	18.7	-90.21	176.9	-784.3	991.5	964.3	27.24	36.400	
6,000.0	5,984.1	6,033.1	5,981.1	14.0	18.8	-90.21	176.9	-784.3	991.5	963.9	27.64	35.869	
6,100.0	6,084.1	6,133.1	6,081.1	14.2	19.0	-90.21	176.9	-784.3	991.5	963.5	28.05	35.351	
6,200.0	6,184.1	6,233.1	6,181.1	14.4	19.1	-90.21	176.9	-784.3	991.5	963.1	28.45	34.846	
6,300.0	6,284.1	6,333.1	6,281.1	14.6	19.3	-90.21	176.9	-784.3	991.5	962.7	28.86	34.354	
6,400.0	6,384.1	6,433.1	6,381.1	14.8	19.4	-90.21	176.9	-784.3	991.5	962.3	29.27	33.874	
6,500.0	6,484.1	6,533.1	6,481.1	15.0	19.6	-90.21	176.9	-784.3	991.5	961.9	29.68	33.406	
6,600.0	6,584.1	6,633.1	6,581.1	15.2	19.8	-90.21	176.9	-784.3	991.5	961.4	30.09	32.950	
6,700.0	6,684.1	6,733.1	6,681.1	15.4	19.9	-90.21	176.9	-784.3	991.5	961.0	30.50	32.505	
6,800.0	6,784.1	6,833.1	6,781.1	15.6	20.1	89.88	176.9	-784.3	991.5	960.6	30.90	32.087	
6,822.3	6,806.3	6,855.3	6,803.3	15.7	20.1	90.00	176.9	-784.3	991.5	960.6	30.97	32.020	
6,900.0	6,882.5	6,931.5	6,879.5	15.8	20.2	90.83	176.9	-784.3	991.6	960.5	31.18	31.806	
7,000.0	6,975.8	7,027.4	6,975.5	15.8	20.4	92.63	176.2	-784.3	992.8	961.4	31.36	31.657	
7,100.0	7,060.7	7,133.7	7,080.2	15.9	20.5	94.72	159.8	-784.3	995.5	964.0	31.47	31.638	SF
7,200.0	7,134.0	7,250.8	7,189.2	16.0	20.6	96.77	117.7	-784.3	999.5	967.9	31.55	31.676	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	-90.00	0.0	-75.6	75.7				
100.0	100.0	97.0	97.0	0.1	0.1	-90.00	0.0	-75.6	75.6	75.4	0.22	341.517	
200.0	200.0	197.0	197.0	0.3	0.3	-90.00	0.0	-75.6	75.6	74.9	0.67	113.267	
300.0	300.0	297.0	297.0	0.6	0.6	-90.00	0.0	-75.6	75.6	74.5	1.12	67.687	
400.0	400.0	397.0	397.0	0.8	0.8	-90.00	0.0	-75.6	75.6	74.0	1.57	48.265	CC, ES
500.0	500.0	494.6	494.6	1.0	1.0	-89.64	0.5	-77.1	77.1	75.1	2.00	38.506	
600.0	600.0	591.9	591.7	1.2	1.2	-88.61	2.0	-81.7	81.9	79.5	2.44	33.561	
700.0	700.0	688.7	688.3	1.5	1.4	-87.12	4.5	-89.4	90.0	87.1	2.89	31.105	
800.0	800.0	785.6	784.4	1.7	1.7	-85.43	8.0	-100.2	101.3	97.9	3.37	30.101	
900.0	900.0	884.7	882.8	1.9	2.0	-83.93	11.9	-112.3	113.8	109.9	3.86	29.493	
1,000.0	1,000.0	983.9	981.1	2.1	2.3	-82.73	15.9	-124.3	126.3	122.0	4.36	28.993	
1,100.0	1,100.0	1,083.1	1,079.5	2.4	2.6	-81.75	19.8	-136.4	138.9	134.0	4.86	28.578	
1,200.0	1,200.0	1,182.3	1,177.9	2.6	2.9	-80.93	23.7	-148.4	151.5	146.2	5.37	28.232	
1,300.0	1,300.0	1,281.4	1,276.2	2.8	3.2	-80.23	27.6	-160.5	164.2	158.3	5.88	27.942	
1,400.0	1,400.0	1,380.6	1,374.6	3.0	3.5	-79.64	31.6	-172.5	176.8	170.5	6.39	27.695	
1,500.0	1,500.0	1,479.7	1,472.8	3.3	3.8	-128.27	35.5	-184.6	190.6	184.1	6.51	29.287	
1,600.0	1,599.8	1,578.4	1,570.7	3.5	4.2	-128.70	39.4	-196.6	206.5	199.5	6.95	29.708	
1,700.0	1,699.5	1,676.6	1,668.1	3.7	4.5	-129.70	43.3	-208.5	224.6	217.2	7.39	30.379	
1,800.0	1,798.8	1,774.3	1,765.0	3.9	4.8	-131.18	47.1	-220.4	244.8	236.9	7.85	31.194	
1,900.0	1,898.0	1,872.0	1,861.9	4.2	5.1	-132.63	51.0	-232.3	265.4	257.1	8.31	31.918	
2,000.0	1,997.3	1,969.6	1,958.7	4.4	5.4	-133.88	54.9	-244.2	286.1	277.3	8.79	32.556	
2,100.0	2,096.6	2,067.3	2,055.6	4.7	5.7	-134.95	58.7	-256.0	306.9	297.7	9.27	33.123	
2,200.0	2,195.8	2,164.9	2,152.4	5.0	6.1	-135.89	62.6	-267.9	327.9	318.1	9.75	33.628	
2,300.0	2,295.1	2,262.6	2,249.3	5.3	6.4	-136.71	66.5	-279.8	348.9	338.7	10.24	34.082	
2,400.0	2,394.3	2,360.2	2,346.1	5.5	6.7	-137.44	70.3	-291.7	370.0	359.2	10.73	34.491	
2,500.0	2,493.6	2,457.9	2,443.0	5.8	7.0	-138.09	74.2	-303.5	391.1	379.9	11.22	34.861	
2,600.0	2,592.9	2,555.5	2,539.8	6.1	7.3	-138.68	78.1	-315.4	412.2	400.5	11.71	35.198	
2,700.0	2,692.1	2,653.2	2,636.7	6.4	7.7	-139.21	81.9	-327.3	433.4	421.2	12.21	35.506	
2,800.0	2,791.4	2,750.8	2,733.5	6.7	8.0	-139.69	85.8	-339.2	454.7	442.0	12.70	35.788	
2,900.0	2,890.7	2,848.5	2,830.4	7.0	8.3	-140.12	89.7	-351.0	475.9	462.7	13.20	36.047	
3,000.0	2,989.9	2,946.1	2,927.2	7.3	8.6	-140.52	93.5	-362.9	497.2	483.5	13.70	36.287	
3,100.0	3,089.2	3,043.8	3,024.1	7.6	8.9	-140.89	97.4	-374.8	518.5	504.3	14.20	36.508	
3,200.0	3,188.4	3,141.4	3,120.9	7.9	9.3	-141.23	101.3	-386.7	539.9	525.2	14.70	36.713	
3,300.0	3,287.7	3,239.1	3,217.8	8.2	9.6	-141.54	105.1	-398.5	561.2	546.0	15.21	36.904	
3,400.0	3,387.0	3,336.7	3,314.6	8.5	9.9	-141.83	109.0	-410.4	582.6	566.8	15.71	37.083	
3,500.0	3,486.2	3,434.4	3,411.5	8.8	10.2	-142.10	112.9	-422.3	603.9	587.7	16.21	37.249	
3,600.0	3,585.5	3,532.1	3,508.3	9.1	10.5	-142.35	116.7	-434.2	625.3	608.6	16.72	37.405	
3,700.0	3,684.8	3,629.7	3,605.2	9.4	10.9	-142.66	120.6	-446.0	646.6	629.3	17.23	37.526	
3,800.0	3,784.3	3,727.9	3,702.6	9.6	11.2	-142.96	124.5	-458.0	665.7	648.0	17.72	37.565	
3,900.0	3,884.2	3,826.5	3,800.4	9.8	11.5	-143.04	128.4	-470.0	682.2	664.0	18.19	37.501	
4,000.0	3,984.1	3,925.5	3,898.6	10.0	11.8	-142.92	132.3	-482.0	695.8	677.2	18.63	37.343	
4,100.0	4,084.1	4,024.7	3,996.9	10.1	12.2	-93.61	136.2	-494.1	707.7	688.7	19.06	37.124	
4,200.0	4,184.1	4,123.9	4,095.3	10.3	12.5	-93.24	140.1	-506.1	719.7	700.1	19.51	36.882	
4,300.0	4,284.1	4,223.0	4,193.7	10.5	12.8	-92.87	144.1	-518.2	731.6	711.6	19.96	36.651	
4,400.0	4,384.1	4,322.2	4,292.0	10.7	13.1	-92.52	148.0	-530.2	743.6	723.2	20.41	36.431	
4,500.0	4,484.1	4,421.4	4,390.4	10.9	13.5	-92.18	151.9	-542.3	755.6	734.7	20.86	36.222	
4,600.0	4,584.1	4,520.6	4,488.8	11.1	13.8	-91.85	155.9	-554.3	767.6	746.3	21.31	36.022	
4,700.0	4,684.1	4,619.8	4,587.1	11.3	14.1	-91.53	159.8	-566.4	779.6	757.9	21.76	35.831	
4,800.0	4,784.1	4,718.9	4,685.5	11.5	14.4	-91.22	163.7	-578.5	791.7	769.5	22.21	35.649	
4,900.0	4,884.1	4,818.1	4,783.8	11.7	14.8	-90.92	167.6	-590.5	803.8	781.2	22.66	35.474	
5,000.0	4,984.1	4,935.4	4,900.3	11.9	15.1	-90.60	172.0	-604.0	815.4	792.3	23.13	35.259	
5,100.0	5,084.1	5,072.2	5,036.6	12.1	15.4	-90.35	175.5	-614.6	823.1	799.5	23.59	34.897	

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-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	5,184.1	5,209.7	5,174.0	12.3	15.6	-90.25	176.9	-618.9	826.2	802.2	24.03	34.380	
5,300.0	5,284.1	5,316.8	5,281.1	12.5	15.8	-90.25	176.9	-619.0	826.3	801.8	24.44	33.813	
5,400.0	5,384.1	5,416.8	5,381.1	12.7	15.9	-90.25	176.9	-619.0	826.3	801.4	24.84	33.264	
5,500.0	5,484.1	5,516.8	5,481.1	12.9	16.1	-90.25	176.9	-619.0	826.3	801.0	25.25	32.730	
5,600.0	5,584.1	5,616.8	5,581.1	13.1	16.2	-90.25	176.9	-619.0	826.3	800.6	25.65	32.212	
5,700.0	5,684.1	5,716.8	5,681.1	13.3	16.4	-90.25	176.9	-619.0	826.3	800.2	26.06	31.707	
5,800.0	5,784.1	5,816.8	5,781.1	13.6	16.6	-90.25	176.9	-619.0	826.3	799.8	26.47	31.217	
5,900.0	5,884.1	5,916.8	5,881.1	13.8	16.7	-90.25	176.9	-619.0	826.3	799.4	26.88	30.740	
6,000.0	5,984.1	6,016.8	5,981.1	14.0	16.9	-90.25	176.9	-619.0	826.3	799.0	27.29	30.276	
6,100.0	6,084.1	6,116.8	6,081.1	14.2	17.1	-90.25	176.9	-619.0	826.3	798.6	27.70	29.825	
6,200.0	6,184.1	6,216.8	6,181.1	14.4	17.2	-90.25	176.9	-619.0	826.3	798.2	28.12	29.386	
6,300.0	6,284.1	6,316.8	6,281.1	14.6	17.4	-90.25	176.9	-619.0	826.3	797.7	28.53	28.959	
6,400.0	6,384.1	6,416.8	6,381.1	14.8	17.6	-90.25	176.9	-619.0	826.3	797.3	28.95	28.542	
6,500.0	6,484.1	6,516.8	6,481.1	15.0	17.8	-90.25	176.9	-619.0	826.3	796.9	29.37	28.137	
6,600.0	6,584.1	6,616.8	6,581.1	15.2	17.9	-90.25	176.9	-619.0	826.3	796.5	29.78	27.742	
6,700.0	6,684.1	6,716.8	6,681.1	15.4	18.1	-90.25	176.9	-619.0	826.3	796.1	30.20	27.357	
6,800.0	6,784.1	6,816.6	6,780.8	15.6	18.3	89.75	175.5	-619.0	826.3	795.7	30.59	27.008	
6,900.0	6,882.5	6,915.9	6,878.6	15.8	18.4	89.76	158.7	-619.0	826.3	795.5	30.82	26.810	
7,000.0	6,975.8	7,015.2	6,971.4	15.8	18.4	89.78	123.7	-619.0	826.3	795.3	30.95	26.699	
7,100.0	7,060.7	7,114.7	7,056.0	15.9	18.5	89.80	71.8	-619.0	826.3	795.2	31.06	26.603	
7,200.0	7,134.0	7,214.2	7,129.2	16.0	18.6	89.83	4.6	-619.0	826.3	795.0	31.27	26.426	
7,300.0	7,193.0	7,313.7	7,188.4	16.1	18.7	89.87	-75.3	-619.0	826.3	794.6	31.69	26.073	
7,400.0	7,235.5	7,413.5	7,231.4	16.3	18.8	89.92	-165.1	-619.0	826.3	793.9	32.42	25.485	
7,500.0	7,260.0	7,513.3	7,256.5	16.8	19.2	89.96	-261.5	-619.0	826.3	792.8	33.51	24.656	
7,600.0	7,267.4	7,613.1	7,263.0	17.5	19.7	89.90	-361.1	-619.0	826.3	791.3	34.95	23.639	
7,600.0	7,266.0	7,613.2	7,263.0	17.5	19.7	90.00	-361.1	-619.0	826.3	791.3	34.95	23.639	
7,700.0	7,265.5	7,713.2	7,262.5	18.4	20.4	90.00	-461.1	-619.0	826.3	789.6	36.72	22.504	
7,800.0	7,265.0	7,813.2	7,262.1	19.5	21.3	90.00	-561.1	-619.0	826.3	787.5	38.78	21.306	
7,900.0	7,264.5	7,913.2	7,261.6	20.6	22.3	90.00	-661.1	-619.0	826.3	785.2	41.10	20.104	
8,000.0	7,264.1	8,013.2	7,261.1	21.9	23.5	90.00	-761.1	-619.0	826.3	782.6	43.63	18.938	
8,100.0	7,263.6	8,113.2	7,260.6	23.2	24.8	90.00	-861.1	-619.0	826.3	779.9	46.34	17.830	
8,200.0	7,263.1	8,213.2	7,260.2	24.7	26.1	90.00	-961.1	-619.0	826.3	777.1	49.20	16.794	
8,300.0	7,262.7	8,313.2	7,259.7	26.1	27.5	90.00	-1,061.1	-619.0	826.3	774.1	52.19	15.833	
8,400.0	7,262.2	8,413.2	7,259.2	27.7	29.0	90.00	-1,161.1	-619.0	826.3	771.0	55.27	14.949	
8,500.0	7,261.7	8,513.2	7,258.8	29.3	30.5	90.00	-1,261.1	-619.0	826.3	767.8	58.45	14.136	
8,600.0	7,261.3	8,613.2	7,258.3	30.9	32.1	90.00	-1,361.1	-619.0	826.3	764.6	61.70	13.391	
8,700.0	7,260.8	8,713.2	7,257.8	32.6	33.7	90.00	-1,461.1	-619.0	826.3	761.3	65.02	12.709	
8,800.0	7,260.3	8,813.2	7,257.3	34.2	35.3	90.00	-1,561.1	-619.0	826.3	757.9	68.39	12.083	
8,900.0	7,259.8	8,913.2	7,256.9	35.9	37.0	90.00	-1,661.1	-619.0	826.3	754.5	71.80	11.508	
9,000.0	7,259.4	9,013.2	7,256.4	37.7	38.6	90.00	-1,761.1	-619.0	826.3	751.0	75.25	10.980	
9,100.0	7,258.9	9,113.2	7,255.9	39.4	40.3	90.00	-1,861.1	-619.0	826.3	747.5	78.74	10.493	
9,200.0	7,258.4	9,213.2	7,255.5	41.2	42.1	90.00	-1,961.1	-619.0	826.3	744.0	82.26	10.044	
9,300.0	7,258.0	9,313.2	7,255.0	42.9	43.8	90.00	-2,061.1	-619.0	826.3	740.5	85.81	9.629	
9,400.0	7,257.5	9,413.2	7,254.5	44.7	45.6	90.00	-2,161.1	-619.0	826.3	736.9	89.38	9.244	
9,500.0	7,257.0	9,513.2	7,254.0	46.5	47.3	90.00	-2,261.1	-619.0	826.3	733.3	92.97	8.887	
9,600.0	7,256.5	9,613.2	7,253.6	48.3	49.1	90.00	-2,361.1	-619.0	826.3	729.7	96.58	8.555	
9,700.0	7,256.1	9,713.2	7,253.1	50.1	50.9	90.00	-2,461.1	-619.0	826.3	726.1	100.21	8.246	
9,800.0	7,255.6	9,813.2	7,252.6	51.9	52.7	90.00	-2,561.1	-619.0	826.3	722.4	103.85	7.957	
9,900.0	7,255.1	9,913.2	7,252.2	53.8	54.5	90.00	-2,661.1	-619.0	826.3	718.8	107.50	7.686	
10,000.0	7,254.7	10,013.2	7,251.7	55.6	56.3	90.00	-2,761.1	-619.0	826.3	715.1	111.17	7.433	
10,100.0	7,254.2	10,113.2	7,251.2	57.4	58.1	90.00	-2,861.1	-619.0	826.3	711.4	114.84	7.195	
10,200.0	7,253.7	10,213.2	7,250.7	59.3	59.9	90.00	-2,961.1	-619.0	826.3	707.7	118.53	6.971	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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
10,300.0	7,253.2	10,313.2	7,250.3	61.1	61.8	90.00	-3,061.1	-619.0	826.3	704.0	122.23	6.760	
10,400.0	7,252.8	10,413.2	7,249.8	63.0	63.6	90.00	-3,161.1	-619.0	826.3	700.3	125.93	6.561	
10,500.0	7,252.3	10,513.2	7,249.3	64.8	65.4	90.00	-3,261.1	-619.0	826.3	696.6	129.64	6.374	
10,600.0	7,251.8	10,613.2	7,248.9	66.7	67.3	90.00	-3,361.1	-619.0	826.3	692.9	133.36	6.196	
10,700.0	7,251.4	10,713.2	7,248.4	68.6	69.1	90.00	-3,461.1	-619.0	826.3	689.2	137.08	6.028	
10,800.0	7,250.9	10,813.2	7,247.9	70.4	71.0	90.00	-3,561.1	-619.0	826.3	685.5	140.81	5.868	
10,900.0	7,250.4	10,913.2	7,247.4	72.3	72.8	90.00	-3,661.1	-619.0	826.3	681.7	144.54	5.716	
11,000.0	7,249.9	11,013.2	7,247.0	74.2	74.7	90.00	-3,761.1	-619.0	826.3	678.0	148.28	5.572	
11,100.0	7,249.5	11,113.2	7,246.5	76.0	76.5	90.00	-3,861.1	-619.0	826.3	674.2	152.03	5.435	
11,200.0	7,249.0	11,213.2	7,246.0	77.9	78.4	90.00	-3,961.1	-619.0	826.3	670.5	155.78	5.304	
11,300.0	7,248.5	11,313.2	7,245.6	79.8	80.3	90.00	-4,061.1	-619.0	826.3	666.7	159.53	5.179	
11,400.0	7,248.1	11,413.2	7,245.1	81.7	82.1	90.00	-4,161.1	-619.0	826.3	663.0	163.29	5.060	
11,500.0	7,247.6	11,513.2	7,244.6	83.5	84.0	90.00	-4,261.1	-619.0	826.3	659.2	167.04	4.946	
11,600.0	7,247.1	11,613.2	7,244.1	85.4	85.9	90.00	-4,361.1	-619.0	826.3	655.5	170.81	4.837	
11,700.0	7,246.6	11,713.2	7,243.7	87.3	87.8	90.00	-4,461.1	-619.0	826.3	651.7	174.57	4.733	
11,800.0	7,246.2	11,813.2	7,243.2	89.2	89.6	90.00	-4,561.1	-619.0	826.3	647.9	178.34	4.633	
11,836.2	7,246.0	11,849.5	7,243.0	89.7	90.3	90.00	-4,597.3	-619.0	826.3	646.7	179.58	4.601	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	0.0	0.0	0.0	0.0	-90.01	0.0	-61.6	61.6				
100.0	100.0	98.0	98.0	0.1	0.1	-90.01	0.0	-61.6	61.6	61.4	0.22	276.871	
200.0	200.0	198.0	198.0	0.3	0.3	-90.01	0.0	-61.6	61.6	60.9	0.67	91.982	
300.0	300.0	298.0	298.0	0.6	0.6	-90.01	0.0	-61.6	61.6	60.5	1.12	55.042	
400.0	400.0	398.0	398.0	0.8	0.8	-90.01	0.0	-61.6	61.6	60.0	1.57	39.270	
500.0	500.0	498.0	498.0	1.0	1.0	-90.01	0.0	-61.6	61.6	59.6	2.02	30.524	
600.0	600.0	598.0	598.0	1.2	1.2	-90.01	0.0	-61.6	61.6	59.1	2.47	24.964	
700.0	700.0	698.0	698.0	1.5	1.5	-90.01	0.0	-61.6	61.6	58.7	2.92	21.118	
800.0	800.0	798.0	798.0	1.7	1.7	-90.01	0.0	-61.6	61.6	58.2	3.37	18.298	
900.0	900.0	898.0	898.0	1.9	1.9	-90.01	0.0	-61.6	61.6	57.8	3.82	16.143	
1,000.0	1,000.0	998.0	998.0	2.1	2.1	-90.01	0.0	-61.6	61.6	57.3	4.27	14.442	CC, ES
1,100.0	1,100.0	1,096.1	1,096.1	2.4	2.3	-89.41	0.6	-63.1	63.1	58.4	4.70	13.416	
1,200.0	1,200.0	1,193.9	1,193.7	2.6	2.6	-87.73	2.7	-67.6	67.8	62.6	5.14	13.190	
1,300.0	1,300.0	1,291.3	1,290.8	2.8	2.8	-85.38	6.1	-75.1	75.7	70.1	5.58	13.562	
1,400.0	1,400.0	1,388.9	1,387.7	3.0	3.0	-82.83	10.7	-85.5	86.7	80.7	6.04	14.368	
1,500.0	1,500.0	1,488.0	1,486.1	3.3	3.3	-130.24	15.8	-96.7	99.8	93.3	6.45	15.459	
1,600.0	1,599.8	1,586.8	1,584.1	3.5	3.5	-130.34	20.8	-107.8	115.1	108.2	6.89	16.709	
1,700.0	1,699.5	1,685.2	1,681.8	3.7	3.8	-131.48	25.9	-118.9	132.6	125.3	7.32	18.117	
1,800.0	1,798.8	1,783.2	1,778.9	3.9	4.1	-133.27	30.8	-130.0	152.3	144.5	7.76	19.613	
1,900.0	1,898.0	1,881.0	1,876.1	4.2	4.4	-134.85	35.8	-141.1	172.3	164.1	8.22	20.962	
2,000.0	1,997.3	1,978.9	1,973.2	4.4	4.7	-136.11	40.8	-152.1	192.5	183.8	8.68	22.164	
2,100.0	2,096.6	2,076.8	2,070.3	4.7	5.0	-137.13	45.8	-163.2	212.7	203.5	9.15	23.234	
2,200.0	2,195.8	2,174.6	2,167.4	5.0	5.2	-137.97	50.8	-174.3	233.0	223.3	9.63	24.193	
2,300.0	2,295.1	2,272.5	2,264.5	5.3	5.5	-138.67	55.8	-185.3	253.3	243.2	10.11	25.055	
2,400.0	2,394.3	2,370.4	2,361.6	5.5	5.8	-139.27	60.8	-196.4	273.6	263.0	10.59	25.832	
2,500.0	2,493.6	2,468.2	2,458.8	5.8	6.1	-139.79	65.8	-207.4	294.0	282.9	11.08	26.536	
2,600.0	2,592.9	2,566.1	2,555.9	6.1	6.4	-140.24	70.8	-218.5	314.4	302.8	11.57	27.175	
2,700.0	2,692.1	2,664.0	2,653.0	6.4	6.8	-140.64	75.7	-229.5	334.8	322.8	12.06	27.759	
2,800.0	2,791.4	2,761.9	2,750.1	6.7	7.1	-140.99	80.7	-240.6	355.2	342.7	12.56	28.293	
2,900.0	2,890.7	2,859.7	2,847.2	7.0	7.4	-141.30	85.7	-251.7	375.7	362.6	13.05	28.783	
3,000.0	2,989.9	2,957.6	2,944.3	7.3	7.7	-141.58	90.7	-262.7	396.1	382.6	13.55	29.234	
3,100.0	3,089.2	3,055.5	3,041.4	7.6	8.0	-141.83	95.7	-273.8	416.6	402.5	14.05	29.651	
3,200.0	3,188.4	3,153.3	3,138.6	7.9	8.3	-142.06	100.7	-284.8	437.0	422.5	14.55	30.037	
3,300.0	3,287.7	3,251.2	3,235.7	8.2	8.6	-142.27	105.7	-295.9	457.5	442.4	15.05	30.395	
3,400.0	3,387.0	3,349.1	3,332.8	8.5	8.9	-142.46	110.7	-307.0	478.0	462.4	15.55	30.729	
3,500.0	3,486.2	3,447.0	3,429.9	8.8	9.2	-142.64	115.7	-318.0	498.4	482.4	16.06	31.039	
3,600.0	3,585.5	3,544.8	3,527.0	9.1	9.5	-142.80	120.6	-329.1	518.9	502.4	16.56	31.330	
3,700.0	3,684.8	3,642.7	3,624.2	9.4	9.8	-143.01	125.6	-340.1	539.3	522.2	17.07	31.584	
3,800.0	3,784.3	3,741.0	3,721.7	9.6	10.1	-143.20	130.7	-351.3	557.5	539.9	17.56	31.748	
3,900.0	3,884.2	3,839.8	3,819.7	9.8	10.5	-143.13	135.7	-362.4	573.0	555.0	18.02	31.791	
4,000.0	3,984.1	3,938.9	3,918.0	10.0	10.8	-142.84	140.7	-373.6	585.7	567.3	18.46	31.725	
4,100.0	4,084.1	4,038.1	4,016.5	10.1	11.1	-93.35	145.8	-384.8	596.7	577.8	18.90	31.580	
4,200.0	4,184.1	4,137.3	4,115.0	10.3	11.4	-92.81	150.9	-396.0	607.8	588.4	19.35	31.412	
4,300.0	4,284.1	4,236.6	4,213.4	10.5	11.7	-92.29	155.9	-407.2	618.8	599.0	19.80	31.255	
4,400.0	4,384.1	4,335.8	4,311.9	10.7	12.0	-91.79	161.0	-418.5	630.0	609.7	20.25	31.108	
4,500.0	4,484.1	4,435.0	4,410.4	10.9	12.4	-91.30	166.0	-429.7	641.1	620.4	20.70	30.970	
4,600.0	4,584.1	4,551.0	4,525.6	11.1	12.7	-90.80	171.5	-441.7	651.5	630.4	21.16	30.791	
4,700.0	4,684.1	4,676.8	4,651.1	11.3	12.9	-90.45	175.3	-450.2	658.2	636.6	21.60	30.471	
4,800.0	4,784.1	4,803.3	4,777.4	11.5	13.1	-90.32	176.9	-453.7	661.0	638.9	22.03	29.999	
4,900.0	4,884.1	4,908.0	4,882.1	11.7	13.3	-90.31	176.9	-453.7	661.0	638.6	22.43	29.465	
5,000.0	4,984.1	5,008.0	4,982.1	11.9	13.5	-90.31	176.9	-453.7	661.0	638.2	22.84	28.937	
5,100.0	5,084.1	5,108.0	5,082.1	12.1	13.7	-90.31	176.9	-453.7	661.0	637.8	23.25	28.426	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	5,184.1	5,208.0	5,182.1	12.3	13.8	-90.31	176.9	-453.7	661.0	637.4	23.67	27.930	
5,300.0	5,284.1	5,308.0	5,282.1	12.5	14.0	-90.31	176.9	-453.7	661.0	636.9	24.08	27.451	
5,400.0	5,384.1	5,408.0	5,382.1	12.7	14.2	-90.31	176.9	-453.7	661.0	636.5	24.50	26.986	
5,500.0	5,484.1	5,508.0	5,482.1	12.9	14.4	-90.31	176.9	-453.7	661.0	636.1	24.91	26.536	
5,600.0	5,584.1	5,608.0	5,582.1	13.1	14.6	-90.31	176.9	-453.7	661.0	635.7	25.33	26.099	
5,700.0	5,684.1	5,708.0	5,682.1	13.3	14.7	-90.31	176.9	-453.7	661.0	635.3	25.75	25.675	
5,800.0	5,784.1	5,808.0	5,782.1	13.6	14.9	-90.31	176.9	-453.7	661.0	634.9	26.17	25.263	
5,900.0	5,884.1	5,908.0	5,882.1	13.8	15.1	-90.31	176.9	-453.7	661.0	634.4	26.59	24.864	
6,000.0	5,984.1	6,008.0	5,982.1	14.0	15.3	-90.31	176.9	-453.7	661.0	634.0	27.01	24.476	
6,100.0	6,084.1	6,108.0	6,082.1	14.2	15.5	-90.31	176.9	-453.7	661.0	633.6	27.43	24.100	
6,200.0	6,184.1	6,208.0	6,182.1	14.4	15.7	-90.31	176.9	-453.7	661.0	633.2	27.85	23.734	
6,300.0	6,284.1	6,308.0	6,282.1	14.6	15.9	-90.31	176.9	-453.7	661.0	632.8	28.28	23.378	
6,400.0	6,384.1	6,408.0	6,382.1	14.8	16.1	-90.31	176.9	-453.7	661.0	632.3	28.70	23.032	
6,500.0	6,484.1	6,508.0	6,482.1	15.0	16.2	-90.31	176.9	-453.7	661.0	631.9	29.13	22.696	
6,600.0	6,584.1	6,608.0	6,582.1	15.2	16.4	-90.31	176.9	-453.7	661.0	631.5	29.55	22.369	
6,700.0	6,684.1	6,708.0	6,682.1	15.4	16.6	-90.31	176.9	-453.7	661.0	631.0	29.98	22.050	
6,800.0	6,784.1	6,807.7	6,781.8	15.6	16.8	89.69	175.5	-453.7	661.0	630.7	30.38	21.762	
6,900.0	6,882.5	6,907.0	6,879.6	15.8	16.9	89.70	158.7	-453.7	661.0	630.4	30.60	21.603	
7,000.0	6,975.8	7,006.4	6,972.4	15.8	17.0	89.72	123.7	-453.7	661.0	630.3	30.72	21.516	
7,100.0	7,060.7	7,105.8	7,057.0	15.9	17.1	89.75	71.8	-453.7	661.0	630.2	30.83	21.441	
7,200.0	7,134.0	7,205.3	7,130.2	16.0	17.1	89.79	4.6	-453.7	661.0	630.0	31.03	21.301	
7,300.0	7,193.0	7,304.9	7,189.4	16.1	17.2	89.84	-75.3	-453.7	661.0	629.6	31.45	21.017	
7,400.0	7,235.5	7,404.6	7,232.4	16.3	17.4	89.89	-165.1	-453.7	661.0	628.8	32.18	20.539	
7,500.0	7,260.0	7,504.4	7,257.5	16.8	17.8	89.95	-261.5	-453.7	661.0	627.7	33.28	19.865	
7,600.0	7,267.4	7,604.3	7,264.0	17.5	18.4	89.88	-361.1	-453.7	661.0	626.3	34.72	19.040	
7,600.0	7,266.0	7,604.4	7,264.0	17.5	18.4	90.00	-361.1	-453.7	661.0	626.3	34.72	19.040	
7,700.0	7,265.5	7,704.4	7,263.5	18.4	19.2	90.00	-461.1	-453.7	661.0	624.5	36.49	18.115	
7,800.0	7,265.0	7,804.4	7,263.1	19.5	20.2	90.00	-561.1	-453.7	661.0	622.5	38.56	17.142	
7,900.0	7,264.5	7,904.4	7,262.6	20.6	21.3	90.00	-661.1	-453.7	661.0	620.1	40.89	16.167	
8,000.0	7,264.1	8,004.4	7,262.1	21.9	22.5	90.00	-761.1	-453.7	661.0	617.6	43.43	15.221	
8,100.0	7,263.6	8,104.4	7,261.6	23.2	23.8	90.00	-861.1	-453.7	661.0	614.9	46.15	14.324	
8,200.0	7,263.1	8,204.4	7,261.2	24.7	25.2	90.00	-961.1	-453.7	661.0	612.0	49.02	13.486	
8,300.0	7,262.7	8,304.4	7,260.7	26.1	26.7	90.00	-1,061.1	-453.7	661.0	609.0	52.01	12.710	
8,400.0	7,262.2	8,404.4	7,260.2	27.7	28.2	90.00	-1,161.1	-453.7	661.0	605.9	55.10	11.996	
8,500.0	7,261.7	8,504.4	7,259.8	29.3	29.8	90.00	-1,261.1	-453.7	661.0	602.7	58.29	11.341	
8,600.0	7,261.3	8,604.4	7,259.3	30.9	31.4	90.00	-1,361.1	-453.7	661.0	599.5	61.54	10.741	
8,700.0	7,260.8	8,704.4	7,258.8	32.6	33.0	90.00	-1,461.1	-453.7	661.0	596.2	64.86	10.191	
8,800.0	7,260.3	8,804.4	7,258.3	34.2	34.7	90.00	-1,561.1	-453.7	661.0	592.8	68.24	9.687	
8,900.0	7,259.8	8,904.4	7,257.9	35.9	36.3	90.00	-1,661.1	-453.7	661.0	589.4	71.66	9.225	
9,000.0	7,259.4	9,004.4	7,257.4	37.7	38.0	90.00	-1,761.1	-453.7	661.0	585.9	75.12	8.800	
9,100.0	7,258.9	9,104.4	7,256.9	39.4	39.8	90.00	-1,861.1	-453.7	661.0	582.4	78.61	8.409	
9,200.0	7,258.4	9,204.4	7,256.5	41.2	41.5	90.00	-1,961.1	-453.7	661.0	578.9	82.13	8.048	
9,300.0	7,258.0	9,304.4	7,256.0	42.9	43.3	90.00	-2,061.1	-453.7	661.0	575.3	85.68	7.715	
9,400.0	7,257.5	9,404.4	7,255.5	44.7	45.0	90.00	-2,161.1	-453.7	661.0	571.8	89.26	7.406	
9,500.0	7,257.0	9,504.4	7,255.0	46.5	46.8	90.00	-2,261.1	-453.7	661.0	568.2	92.85	7.119	
9,600.0	7,256.5	9,604.4	7,254.6	48.3	48.6	90.00	-2,361.1	-453.7	661.0	564.6	96.46	6.852	
9,700.0	7,256.1	9,704.4	7,254.1	50.1	50.4	90.00	-2,461.1	-453.7	661.0	560.9	100.09	6.604	
9,800.0	7,255.6	9,804.4	7,253.6	51.9	52.2	90.00	-2,561.1	-453.7	661.0	557.3	103.74	6.372	
9,900.0	7,255.1	9,904.4	7,253.2	53.8	54.0	90.00	-2,661.1	-453.7	661.0	553.6	107.39	6.155	
10,000.0	7,254.7	10,004.4	7,252.7	55.6	55.9	90.00	-2,761.1	-453.7	661.0	550.0	111.06	5.952	
10,100.0	7,254.2	10,104.4	7,252.2	57.4	57.7	90.00	-2,861.1	-453.7	661.0	546.3	114.74	5.761	
10,200.0	7,253.7	10,204.4	7,251.7	59.3	59.5	90.00	-2,961.1	-453.7	661.0	542.6	118.43	5.582	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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
10,300.0	7,253.2	10,304.4	7,251.3	61.1	61.4	90.00	-3,061.1	-453.7	661.0	538.9	122.12	5.413	
10,400.0	7,252.8	10,404.4	7,250.8	63.0	63.2	90.00	-3,161.1	-453.7	661.0	535.2	125.83	5.253	
10,500.0	7,252.3	10,504.4	7,250.3	64.8	65.1	90.00	-3,261.1	-453.7	661.0	531.5	129.54	5.103	
10,600.0	7,251.8	10,604.4	7,249.9	66.7	66.9	90.00	-3,361.1	-453.7	661.0	527.8	133.26	4.960	
10,700.0	7,251.4	10,704.4	7,249.4	68.6	68.8	90.00	-3,461.1	-453.7	661.0	524.0	136.98	4.826	
10,800.0	7,250.9	10,804.4	7,248.9	70.4	70.6	90.00	-3,561.1	-453.7	661.0	520.3	140.71	4.698	
10,900.0	7,250.4	10,904.4	7,248.4	72.3	72.5	90.00	-3,661.1	-453.7	661.0	516.6	144.45	4.576	
11,000.0	7,249.9	11,004.4	7,248.0	74.2	74.4	90.00	-3,761.1	-453.7	661.0	512.8	148.19	4.461	
11,100.0	7,249.5	11,104.4	7,247.5	76.0	76.2	90.00	-3,861.1	-453.7	661.0	509.1	151.94	4.351	
11,200.0	7,249.0	11,204.4	7,247.0	77.9	78.1	90.00	-3,961.1	-453.7	661.0	505.3	155.69	4.246	
11,300.0	7,248.5	11,304.4	7,246.6	79.8	80.0	90.00	-4,061.1	-453.7	661.0	501.6	159.44	4.146	
11,400.0	7,248.1	11,404.4	7,246.1	81.7	81.8	90.00	-4,161.1	-453.7	661.0	497.8	163.20	4.050	
11,500.0	7,247.6	11,504.4	7,245.6	83.5	83.7	90.00	-4,261.1	-453.7	661.0	494.1	166.96	3.959	
11,600.0	7,247.1	11,604.4	7,245.1	85.4	85.6	90.00	-4,361.1	-453.7	661.0	490.3	170.72	3.872	
11,700.0	7,246.6	11,704.4	7,244.7	87.3	87.5	90.00	-4,461.1	-453.7	661.0	486.5	174.49	3.788	
11,800.0	7,246.2	11,804.4	7,244.2	89.2	89.3	90.00	-4,561.1	-453.7	661.0	482.8	178.26	3.708	
11,836.2	7,246.0	11,840.6	7,244.0	89.7	90.0	90.00	-4,597.3	-453.7	661.0	481.5	179.49	3.683	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	0.0	0.0	0.0	0.0	-90.00	0.0	-44.8	44.9				
100.0	100.0	98.0	98.0	0.1	0.1	-90.00	0.0	-44.8	44.8	44.6	0.22	201.360	
200.0	200.0	198.0	198.0	0.3	0.3	-90.00	0.0	-44.8	44.8	44.1	0.67	66.896	
300.0	300.0	298.0	298.0	0.6	0.6	-90.00	0.0	-44.8	44.8	43.7	1.12	40.030	
400.0	400.0	398.0	398.0	0.8	0.8	-90.00	0.0	-44.8	44.8	43.2	1.57	28.560	
500.0	500.0	498.0	498.0	1.0	1.0	-90.00	0.0	-44.8	44.8	42.8	2.02	22.199	
600.0	600.0	598.0	598.0	1.2	1.2	-90.00	0.0	-44.8	44.8	42.3	2.47	18.156	
700.0	700.0	698.0	698.0	1.5	1.5	-90.00	0.0	-44.8	44.8	41.9	2.92	15.358	
800.0	800.0	798.0	798.0	1.7	1.7	-90.00	0.0	-44.8	44.8	41.4	3.37	13.308	
900.0	900.0	898.0	898.0	1.9	1.9	-90.00	0.0	-44.8	44.8	41.0	3.82	11.740	
1,000.0	1,000.0	998.0	998.0	2.1	2.1	-90.00	0.0	-44.8	44.8	40.5	4.27	10.503	
1,100.0	1,100.0	1,098.0	1,098.0	2.4	2.4	-90.00	0.0	-44.8	44.8	40.1	4.72	9.502	
1,200.0	1,200.0	1,198.0	1,198.0	2.6	2.6	-90.00	0.0	-44.8	44.8	39.6	5.17	8.675	
1,300.0	1,300.0	1,298.0	1,298.0	2.8	2.8	-90.00	0.0	-44.8	44.8	39.2	5.61	7.980	
1,400.0	1,400.0	1,398.0	1,398.0	3.0	3.0	-90.00	0.0	-44.8	44.8	38.7	6.06	7.389	CC, ES
1,500.0	1,500.0	1,496.7	1,496.7	3.3	3.2	-139.11	1.0	-46.1	47.5	41.0	6.50	7.302	
1,600.0	1,599.8	1,595.0	1,594.8	3.5	3.5	-139.40	3.9	-50.1	55.5	48.6	6.92	8.014	
1,700.0	1,699.5	1,692.4	1,691.9	3.7	3.7	-139.68	8.9	-56.8	68.9	61.5	7.35	9.371	
1,800.0	1,798.8	1,789.5	1,788.3	3.9	3.9	-139.89	15.6	-65.9	87.0	79.2	7.79	11.173	
1,900.0	1,898.0	1,887.7	1,885.8	4.2	4.2	-140.03	22.8	-75.6	105.9	97.7	8.23	12.865	
2,000.0	1,997.3	1,985.9	1,983.2	4.4	4.4	-140.12	30.0	-85.3	124.9	116.2	8.69	14.367	
2,100.0	2,096.6	2,084.1	2,080.6	4.7	4.7	-140.19	37.2	-95.0	143.8	134.7	9.16	15.705	
2,200.0	2,195.8	2,182.2	2,178.1	5.0	4.9	-140.24	44.4	-104.7	162.8	153.1	9.63	16.900	
2,300.0	2,295.1	2,280.4	2,275.5	5.3	5.2	-140.29	51.6	-114.4	181.7	171.6	10.11	17.973	
2,400.0	2,394.3	2,378.6	2,373.0	5.5	5.5	-140.32	58.7	-124.1	200.7	190.1	10.60	18.939	
2,500.0	2,493.6	2,476.8	2,470.4	5.8	5.8	-140.35	65.9	-133.8	219.6	208.5	11.08	19.813	
2,600.0	2,592.9	2,575.0	2,567.9	6.1	6.1	-140.37	73.1	-143.5	238.6	227.0	11.58	20.606	
2,700.0	2,692.1	2,673.2	2,665.3	6.4	6.4	-140.39	80.3	-153.2	257.5	245.4	12.07	21.327	
2,800.0	2,791.4	2,771.4	2,762.7	6.7	6.6	-140.41	87.5	-162.9	276.5	263.9	12.57	21.986	
2,900.0	2,890.7	2,869.6	2,860.2	7.0	6.9	-140.43	94.7	-172.6	295.4	282.3	13.08	22.590	
3,000.0	2,989.9	2,967.7	2,957.6	7.3	7.2	-140.44	101.9	-182.4	314.4	300.8	13.58	23.145	
3,100.0	3,089.2	3,065.9	3,055.1	7.6	7.5	-140.45	109.1	-192.1	333.3	319.2	14.09	23.657	
3,200.0	3,188.4	3,164.1	3,152.5	7.9	7.8	-140.46	116.3	-201.8	352.3	337.7	14.60	24.129	
3,300.0	3,287.7	3,262.3	3,250.0	8.2	8.1	-140.47	123.5	-211.5	371.2	356.1	15.11	24.567	
3,400.0	3,387.0	3,360.5	3,347.4	8.5	8.4	-140.48	130.6	-221.2	390.1	374.5	15.62	24.974	
3,500.0	3,486.2	3,458.7	3,444.8	8.8	8.7	-140.49	137.8	-230.9	409.1	393.0	16.14	25.353	
3,600.0	3,585.5	3,556.9	3,542.3	9.1	9.0	-140.49	145.0	-240.6	428.0	411.4	16.65	25.706	
3,700.0	3,684.8	3,655.1	3,639.8	9.4	9.3	-140.56	152.2	-250.3	446.9	429.7	17.17	26.024	
3,800.0	3,784.3	3,753.7	3,737.6	9.6	9.6	-140.56	159.4	-260.0	463.6	446.0	17.66	26.252	
3,900.0	3,884.2	3,852.6	3,835.7	9.8	9.9	-140.26	166.7	-269.8	477.8	459.6	18.13	26.355	
4,000.0	3,984.1	3,965.4	3,947.9	10.0	10.2	-139.71	173.9	-279.6	488.0	469.5	18.56	26.297	
4,100.0	4,084.1	4,081.0	4,063.3	10.1	10.5	-90.23	178.6	-285.9	493.5	474.5	18.97	26.021	
4,200.0	4,184.1	4,197.1	4,179.3	10.3	10.7	-90.01	180.5	-288.4	495.7	476.3	19.38	25.583	
4,300.0	4,284.1	4,300.0	4,282.1	10.5	10.8	-90.00	180.5	-288.5	495.8	476.0	19.77	25.077	
4,400.0	4,384.1	4,400.0	4,382.1	10.7	11.0	-90.00	180.5	-288.5	495.8	475.6	20.18	24.568	
4,500.0	4,484.1	4,500.0	4,482.1	10.9	11.2	-90.00	180.5	-288.5	495.8	475.2	20.59	24.077	
4,600.0	4,584.1	4,600.0	4,582.1	11.1	11.4	-90.00	180.5	-288.5	495.8	474.8	21.00	23.604	
4,700.0	4,684.1	4,700.0	4,682.1	11.3	11.6	-90.00	180.5	-288.5	495.8	474.3	21.42	23.147	
4,800.0	4,784.1	4,800.0	4,782.1	11.5	11.8	-90.00	180.5	-288.5	495.8	473.9	21.83	22.707	
4,900.0	4,884.1	4,900.0	4,882.1	11.7	12.0	-90.00	180.5	-288.5	495.8	473.5	22.25	22.281	
5,000.0	4,984.1	5,000.0	4,982.1	11.9	12.2	-90.00	180.5	-288.5	495.8	473.1	22.67	21.870	
5,100.0	5,084.1	5,100.0	5,082.1	12.1	12.4	-90.00	180.5	-288.5	495.8	472.7	23.09	21.473	

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-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	5,184.1	5,200.0	5,182.1	12.3	12.6	-90.00	180.5	-288.5	495.8	472.3	23.51	21.089	
5,300.0	5,284.1	5,300.0	5,282.1	12.5	12.8	-90.00	180.5	-288.5	495.8	471.8	23.93	20.717	
5,400.0	5,384.1	5,400.0	5,382.1	12.7	13.0	-90.00	180.5	-288.5	495.8	471.4	24.35	20.358	
5,500.0	5,484.1	5,500.0	5,482.1	12.9	13.2	-90.00	180.5	-288.5	495.8	471.0	24.78	20.010	
5,600.0	5,584.1	5,600.0	5,582.1	13.1	13.4	-90.00	180.5	-288.5	495.8	470.6	25.20	19.673	
5,700.0	5,684.1	5,700.0	5,682.1	13.3	13.6	-90.00	180.5	-288.5	495.8	470.1	25.63	19.347	
5,800.0	5,784.1	5,800.0	5,782.1	13.6	13.8	-90.00	180.5	-288.5	495.8	469.7	26.05	19.030	
5,900.0	5,884.1	5,900.0	5,882.1	13.8	14.0	-90.00	180.5	-288.5	495.8	469.3	26.48	18.723	
6,000.0	5,984.1	6,000.0	5,982.1	14.0	14.2	-90.00	180.5	-288.5	495.8	468.9	26.91	18.426	
6,100.0	6,084.1	6,100.0	6,082.1	14.2	14.4	-90.00	180.5	-288.5	495.8	468.4	27.33	18.137	
6,200.0	6,184.1	6,200.0	6,182.1	14.4	14.6	-90.00	180.5	-288.5	495.8	468.0	27.76	17.857	
6,300.0	6,284.1	6,300.0	6,282.1	14.6	14.8	-90.00	180.5	-288.5	495.8	467.6	28.19	17.585	
6,400.0	6,384.1	6,400.0	6,382.1	14.8	15.0	-90.00	180.5	-288.5	495.8	467.1	28.62	17.321	
6,500.0	6,484.1	6,500.0	6,482.1	15.0	15.2	-90.00	180.5	-288.5	495.8	466.7	29.05	17.064	
6,600.0	6,584.1	6,600.0	6,582.1	15.2	15.4	-90.00	180.5	-288.5	495.8	466.3	29.48	16.814	
6,700.0	6,684.1	6,700.0	6,682.1	15.4	15.6	-90.00	180.5	-288.5	495.8	465.8	29.92	16.571	
6,744.3	6,728.4	6,744.3	6,726.4	15.5	15.7	90.08	180.5	-288.5	495.8	465.7	30.10	16.470	
6,800.0	6,784.1	6,800.0	6,782.1	15.6	15.8	90.00	179.0	-288.5	495.8	465.4	30.32	16.351	
6,900.0	6,882.5	6,900.0	6,880.5	15.8	16.0	90.00	162.1	-288.5	495.8	465.2	30.54	16.234	
7,000.0	6,975.8	7,000.0	6,973.9	15.8	16.0	90.00	126.6	-288.5	495.8	465.1	30.66	16.171	
7,100.0	7,060.7	7,100.0	7,058.7	15.9	16.1	90.00	74.1	-288.5	495.8	465.0	30.76	16.118	
7,200.0	7,134.0	7,200.0	7,132.0	16.0	16.2	90.00	6.2	-288.5	495.8	464.8	30.96	16.015	
7,300.0	7,193.0	7,300.0	7,191.0	16.1	16.2	90.00	-74.3	-288.5	495.8	464.4	31.37	15.802	
7,400.0	7,235.5	7,400.0	7,233.5	16.3	16.4	90.00	-164.7	-288.5	495.8	463.7	32.11	15.442	
7,500.0	7,260.0	7,500.0	7,258.1	16.8	16.9	90.00	-261.5	-288.5	495.8	462.6	33.20	14.933	
7,600.0	7,266.0	7,600.0	7,264.0	17.5	17.6	90.00	-361.1	-288.5	495.8	461.1	34.64	14.310	
7,700.0	7,265.5	7,700.0	7,263.5	18.4	18.5	90.00	-461.1	-288.5	495.8	459.3	36.42	13.613	
7,800.0	7,265.0	7,800.0	7,263.0	19.5	19.5	90.00	-561.1	-288.5	495.8	457.3	38.50	12.878	
7,900.0	7,264.5	7,900.0	7,262.6	20.6	20.7	90.00	-661.1	-288.5	495.8	454.9	40.83	12.143	
8,000.0	7,264.1	8,000.0	7,262.1	21.9	22.0	90.00	-761.1	-288.5	495.8	452.4	43.37	11.431	
8,100.0	7,263.6	8,100.0	7,261.6	23.2	23.3	90.00	-861.1	-288.5	495.8	449.7	46.09	10.755	
8,200.0	7,263.1	8,200.0	7,261.2	24.7	24.7	90.00	-961.1	-288.5	495.8	446.8	48.97	10.125	
8,300.0	7,262.7	8,300.0	7,260.7	26.1	26.2	90.00	-1,061.1	-288.5	495.8	443.8	51.96	9.541	
8,400.0	7,262.2	8,400.0	7,260.2	27.7	27.8	90.00	-1,161.1	-288.5	495.8	440.7	55.06	9.004	
8,500.0	7,261.7	8,500.0	7,259.7	29.3	29.3	90.00	-1,261.1	-288.5	495.8	437.5	58.25	8.512	
8,600.0	7,261.3	8,600.0	7,259.3	30.9	31.0	90.00	-1,361.1	-288.5	495.8	434.3	61.51	8.060	
8,700.0	7,260.8	8,700.0	7,258.8	32.6	32.6	90.00	-1,461.1	-288.5	495.8	430.9	64.83	7.647	
8,800.0	7,260.3	8,800.0	7,258.3	34.2	34.3	90.00	-1,561.1	-288.5	495.8	427.6	68.20	7.269	
8,900.0	7,259.8	8,900.0	7,257.9	35.9	36.0	90.00	-1,661.1	-288.5	495.8	424.1	71.62	6.922	
9,000.0	7,259.4	9,000.0	7,257.4	37.7	37.7	90.00	-1,761.1	-288.5	495.8	420.7	75.09	6.603	
9,100.0	7,258.9	9,100.0	7,256.9	39.4	39.5	90.00	-1,861.1	-288.5	495.8	417.2	78.58	6.309	
9,200.0	7,258.4	9,200.0	7,256.4	41.2	41.2	90.00	-1,961.1	-288.5	495.8	413.7	82.11	6.038	
9,300.0	7,258.0	9,300.0	7,256.0	42.9	43.0	90.00	-2,061.1	-288.5	495.8	410.1	85.66	5.788	
9,400.0	7,257.5	9,400.0	7,255.5	44.7	44.8	90.00	-2,161.1	-288.5	495.8	406.5	89.23	5.556	
9,500.0	7,257.0	9,500.0	7,255.0	46.5	46.6	90.00	-2,261.1	-288.5	495.8	402.9	92.83	5.341	
9,600.0	7,256.5	9,600.0	7,254.6	48.3	48.4	90.00	-2,361.1	-288.5	495.8	399.3	96.44	5.141	
9,700.0	7,256.1	9,700.0	7,254.1	50.1	50.2	90.00	-2,461.1	-288.5	495.8	395.7	100.07	4.954	
9,800.0	7,255.6	9,800.0	7,253.6	51.9	52.0	90.00	-2,561.1	-288.5	495.8	392.0	103.71	4.780	
9,900.0	7,255.1	9,900.0	7,253.1	53.8	53.8	90.00	-2,661.1	-288.5	495.8	388.4	107.37	4.617	
10,000.0	7,254.7	10,000.0	7,252.7	55.6	55.6	90.00	-2,761.1	-288.5	495.8	384.7	111.04	4.465	
10,100.0	7,254.2	10,100.0	7,252.2	57.4	57.5	90.00	-2,861.1	-288.5	495.8	381.0	114.72	4.322	
10,200.0	7,253.7	10,200.0	7,251.7	59.3	59.3	90.00	-2,961.1	-288.5	495.8	377.4	118.41	4.187	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	7,253.2	10,300.0	7,251.3	61.1	61.2	90.00	-3,061.1	-288.5	495.8	373.7	122.11	4.060	
10,400.0	7,252.8	10,400.0	7,250.8	63.0	63.0	90.00	-3,161.1	-288.5	495.8	370.0	125.81	3.941	
10,500.0	7,252.3	10,500.0	7,250.3	64.8	64.9	90.00	-3,261.1	-288.5	495.8	366.2	129.52	3.828	
10,600.0	7,251.8	10,600.0	7,249.8	66.7	66.7	90.00	-3,361.1	-288.5	495.8	362.5	133.24	3.721	
10,700.0	7,251.4	10,700.0	7,249.4	68.6	68.6	90.00	-3,461.1	-288.5	495.8	358.8	136.97	3.620	
10,800.0	7,250.9	10,800.0	7,248.9	70.4	70.4	90.00	-3,561.1	-288.5	495.8	355.1	140.70	3.524	
10,900.0	7,250.4	10,900.0	7,248.4	72.3	72.3	90.00	-3,661.1	-288.5	495.8	351.3	144.44	3.432	
11,000.0	7,249.9	11,000.0	7,248.0	74.2	74.2	90.00	-3,761.1	-288.5	495.8	347.6	148.18	3.346	
11,100.0	7,249.5	11,100.0	7,247.5	76.0	76.1	90.00	-3,861.1	-288.5	495.8	343.8	151.92	3.263	
11,200.0	7,249.0	11,200.0	7,247.0	77.9	77.9	90.00	-3,961.1	-288.5	495.8	340.1	155.67	3.185	
11,300.0	7,248.5	11,300.0	7,246.5	79.8	79.8	90.00	-4,061.1	-288.5	495.8	336.3	159.43	3.110	
11,400.0	7,248.1	11,400.0	7,246.1	81.7	81.7	90.00	-4,161.1	-288.5	495.8	332.6	163.18	3.038	
11,500.0	7,247.6	11,500.0	7,245.6	83.5	83.6	90.00	-4,261.1	-288.5	495.8	328.8	166.95	2.970	
11,600.0	7,247.1	11,600.0	7,245.1	85.4	85.4	90.00	-4,361.1	-288.5	495.8	325.1	170.71	2.904	
11,700.0	7,246.6	11,700.0	7,244.7	87.3	87.3	90.00	-4,461.1	-288.5	495.8	321.3	174.48	2.841	
11,800.0	7,246.2	11,800.0	7,244.2	89.2	89.2	90.00	-4,561.1	-288.5	495.8	317.5	178.25	2.781	
11,836.2	7,246.0	11,836.2	7,244.0	89.7	89.9	90.00	-4,597.3	-288.5	495.8	316.3	179.48	2.762	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	0.0	0.0	0.0	0.0	-90.00	0.0	-30.8	30.8				
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-30.8	30.8	30.6	0.22	137.741	
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-30.8	30.8	30.1	0.67	45.837	
300.0	300.0	299.0	299.0	0.6	0.6	-90.00	0.0	-30.8	30.8	29.7	1.12	27.466	
400.0	400.0	399.0	399.0	0.8	0.8	-90.00	0.0	-30.8	30.8	29.2	1.57	19.607	
500.0	500.0	499.0	499.0	1.0	1.0	-90.00	0.0	-30.8	30.8	28.8	2.02	15.245	
600.0	600.0	599.0	599.0	1.2	1.2	-90.00	0.0	-30.8	30.8	28.3	2.47	12.471	
700.0	700.0	699.0	699.0	1.5	1.5	-90.00	0.0	-30.8	30.8	27.9	2.92	10.551	
800.0	800.0	799.0	799.0	1.7	1.7	-90.00	0.0	-30.8	30.8	27.4	3.37	9.143	
900.0	900.0	899.0	899.0	1.9	1.9	-90.00	0.0	-30.8	30.8	27.0	3.82	8.067	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	-90.00	0.0	-30.8	30.8	26.5	4.27	7.217	
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.4	-90.00	0.0	-30.8	30.8	26.1	4.72	6.529	
1,200.0	1,200.0	1,199.0	1,199.0	2.6	2.6	-90.00	0.0	-30.8	30.8	25.6	5.17	5.961	
1,300.0	1,300.0	1,299.0	1,299.0	2.8	2.8	-90.00	0.0	-30.8	30.8	25.2	5.62	5.484	
1,400.0	1,400.0	1,399.0	1,399.0	3.0	3.0	-90.00	0.0	-30.8	30.8	24.7	6.07	5.078	CC, ES
1,500.0	1,500.0	1,499.0	1,499.0	3.3	3.3	-140.98	0.0	-30.8	32.1	25.6	6.51	4.938	
1,600.0	1,599.8	1,598.8	1,598.8	3.5	3.5	-146.13	0.0	-30.8	36.4	29.4	6.94	5.237	
1,700.0	1,699.5	1,698.2	1,698.2	3.7	3.7	-150.79	1.1	-31.4	44.2	36.8	7.37	5.996	
1,800.0	1,798.8	1,797.2	1,797.1	3.9	3.9	-152.80	4.5	-33.1	55.5	47.7	7.80	7.112	
1,900.0	1,898.0	1,896.1	1,895.8	4.2	4.1	-152.17	10.2	-36.0	67.7	59.5	8.24	8.214	
2,000.0	1,997.3	1,994.7	1,994.0	4.4	4.4	-149.96	18.1	-40.1	80.6	71.9	8.70	9.269	
2,100.0	2,096.6	2,093.4	2,092.1	4.7	4.6	-147.10	28.0	-45.1	94.3	85.1	9.17	10.286	
2,200.0	2,195.8	2,192.4	2,190.4	5.0	4.9	-144.85	38.0	-50.3	108.2	98.6	9.65	11.218	
2,300.0	2,295.1	2,291.3	2,288.7	5.3	5.1	-143.11	48.1	-55.4	122.3	112.2	10.14	12.064	
2,400.0	2,394.3	2,390.2	2,387.0	5.5	5.4	-141.72	58.2	-60.6	136.5	125.8	10.64	12.830	
2,500.0	2,493.6	2,489.2	2,485.3	5.8	5.6	-140.60	68.3	-65.8	150.7	139.5	11.14	13.527	
2,600.0	2,592.9	2,588.1	2,583.6	6.1	5.9	-139.68	78.3	-70.9	164.9	153.3	11.65	14.160	
2,700.0	2,692.1	2,687.1	2,681.9	6.4	6.2	-138.90	88.4	-76.1	179.2	167.1	12.16	14.737	
2,800.0	2,791.4	2,786.0	2,780.2	6.7	6.4	-138.23	98.5	-81.2	193.5	180.9	12.68	15.264	
2,900.0	2,890.7	2,885.0	2,878.5	7.0	6.7	-137.66	108.5	-86.4	207.9	194.7	13.20	15.747	
3,000.0	2,989.9	2,983.9	2,976.8	7.3	7.0	-137.16	118.6	-91.5	222.3	208.5	13.73	16.190	
3,100.0	3,089.2	3,082.9	3,075.1	7.6	7.3	-136.72	128.7	-96.7	236.6	222.4	14.26	16.599	
3,200.0	3,188.4	3,181.8	3,173.3	7.9	7.5	-136.33	138.7	-101.9	251.0	236.2	14.79	16.976	
3,300.0	3,287.7	3,280.8	3,271.6	8.2	7.8	-135.99	148.8	-107.0	265.4	250.1	15.32	17.324	
3,400.0	3,387.0	3,380.0	3,370.2	8.5	8.1	-135.68	158.9	-112.2	279.8	264.0	15.86	17.649	
3,500.0	3,486.2	3,482.9	3,472.6	8.8	8.3	-135.65	168.0	-116.8	293.5	277.1	16.34	17.956	
3,600.0	3,585.5	3,586.2	3,575.6	9.1	8.5	-136.09	174.6	-120.2	305.8	289.0	16.82	18.185	
3,700.0	3,684.8	3,689.6	3,678.9	9.4	8.7	-136.95	178.8	-122.4	316.7	299.4	17.27	18.338	
3,800.0	3,784.3	3,793.3	3,782.7	9.6	8.9	-137.93	180.5	-123.2	324.4	306.7	17.67	18.356	
3,900.0	3,884.2	3,893.8	3,883.2	9.8	9.1	-138.66	180.5	-123.2	328.7	310.7	18.05	18.208	
4,000.0	3,984.1	3,993.8	3,983.1	10.0	9.3	-138.94	180.5	-123.2	330.5	312.0	18.44	17.925	
4,100.0	4,084.1	4,093.8	4,083.1	10.1	9.5	-90.00	180.5	-123.2	330.5	311.7	18.83	17.555	
4,200.0	4,184.1	4,193.8	4,183.1	10.3	9.7	-90.00	180.5	-123.2	330.5	311.3	19.24	17.179	
4,300.0	4,284.1	4,293.8	4,283.1	10.5	9.9	-90.00	180.5	-123.2	330.5	310.9	19.65	16.818	
4,400.0	4,384.1	4,393.8	4,383.1	10.7	10.1	-90.00	180.5	-123.2	330.5	310.4	20.07	16.470	
4,500.0	4,484.1	4,493.8	4,483.1	10.9	10.3	-90.00	180.5	-123.2	330.5	310.0	20.48	16.135	
4,600.0	4,584.1	4,593.8	4,583.1	11.1	10.6	-90.00	180.5	-123.2	330.5	309.6	20.90	15.812	
4,700.0	4,684.1	4,693.8	4,683.1	11.3	10.8	-90.00	180.5	-123.2	330.5	309.2	21.32	15.501	
4,800.0	4,784.1	4,793.8	4,783.1	11.5	11.0	-90.00	180.5	-123.2	330.5	308.8	21.74	15.201	
4,900.0	4,884.1	4,893.8	4,883.1	11.7	11.2	-90.00	180.5	-123.2	330.5	308.3	22.16	14.912	
5,000.0	4,984.1	4,993.8	4,983.1	11.9	11.4	-90.00	180.5	-123.2	330.5	307.9	22.59	14.633	
5,100.0	5,084.1	5,093.8	5,083.1	12.1	11.6	-90.00	180.5	-123.2	330.5	307.5	23.01	14.364	

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-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	5,184.1	5,193.8	5,183.1	12.3	11.8	-90.00	180.5	-123.2	330.5	307.1	23.43	14.103	
5,300.0	5,284.1	5,293.8	5,283.1	12.5	12.0	-90.00	180.5	-123.2	330.5	306.6	23.86	13.852	
5,400.0	5,384.1	5,393.8	5,383.1	12.7	12.2	-90.00	180.5	-123.2	330.5	306.2	24.29	13.609	
5,500.0	5,484.1	5,493.8	5,483.1	12.9	12.5	-90.00	180.5	-123.2	330.5	305.8	24.71	13.373	
5,600.0	5,584.1	5,593.8	5,583.1	13.1	12.7	-90.00	180.5	-123.2	330.5	305.4	25.14	13.146	
5,700.0	5,684.1	5,693.8	5,683.1	13.3	12.9	-90.00	180.5	-123.2	330.5	304.9	25.57	12.925	
5,800.0	5,784.1	5,793.8	5,783.1	13.6	13.1	-90.00	180.5	-123.2	330.5	304.5	26.00	12.712	
5,900.0	5,884.1	5,893.8	5,883.1	13.8	13.3	-90.00	180.5	-123.2	330.5	304.1	26.43	12.505	
6,000.0	5,984.1	5,993.8	5,983.1	14.0	13.5	-90.00	180.5	-123.2	330.5	303.6	26.86	12.304	
6,100.0	6,084.1	6,093.8	6,083.1	14.2	13.7	-90.00	180.5	-123.2	330.5	303.2	27.29	12.110	
6,200.0	6,184.1	6,193.8	6,183.1	14.4	14.0	-90.00	180.5	-123.2	330.5	302.8	27.72	11.921	
6,300.0	6,284.1	6,293.8	6,283.1	14.6	14.2	-90.00	180.5	-123.2	330.5	302.4	28.16	11.738	
6,400.0	6,384.1	6,393.8	6,383.1	14.8	14.4	-90.00	180.5	-123.2	330.5	301.9	28.59	11.560	
6,500.0	6,484.1	6,493.8	6,483.1	15.0	14.6	-90.00	180.5	-123.2	330.5	301.5	29.02	11.388	
6,600.0	6,584.1	6,593.8	6,583.1	15.2	14.8	-90.00	180.5	-123.2	330.5	301.1	29.46	11.220	
6,700.0	6,684.1	6,693.8	6,683.1	15.4	15.0	-90.00	180.5	-123.2	330.5	300.6	29.89	11.057	
6,753.0	6,737.2	6,746.9	6,736.2	15.5	15.2	90.18	180.5	-123.2	330.5	300.4	30.12	10.974	
6,800.0	6,784.1	6,793.8	6,783.1	15.6	15.3	90.25	180.5	-123.2	330.5	300.2	30.31	10.903	
6,900.0	6,882.5	6,892.2	6,881.5	15.8	15.5	93.08	180.5	-123.2	331.0	300.4	30.65	10.799	
7,000.0	6,975.8	6,988.4	6,977.7	15.8	15.7	98.41	179.8	-123.2	334.8	303.9	30.88	10.839	
7,100.0	7,060.7	7,095.5	7,083.3	15.9	15.8	104.45	163.2	-123.2	343.1	312.3	30.84	11.125	
7,200.0	7,134.0	7,213.7	7,193.2	16.0	15.9	110.08	120.2	-123.2	354.8	324.3	30.49	11.636	
7,300.0	7,193.0	7,345.1	7,300.5	16.1	16.0	115.01	44.9	-123.2	367.7	337.8	29.96	12.275	
7,400.0	7,235.5	7,490.7	7,393.2	16.3	16.1	118.89	-66.7	-123.2	379.5	349.9	29.61	12.816	
7,500.0	7,260.0	7,648.6	7,454.7	16.8	16.7	121.30	-211.5	-123.2	387.3	357.3	29.97	12.924	
7,600.0	7,266.0	7,800.3	7,470.8	17.5	17.8	121.91	-361.9	-123.2	389.4	358.0	31.33	12.430	
7,700.0	7,265.5	7,900.3	7,470.4	18.4	18.6	121.93	-461.9	-123.2	389.4	356.6	32.85	11.853	
7,800.0	7,265.0	8,000.3	7,470.1	19.5	19.7	121.94	-561.9	-123.2	389.5	354.9	34.64	11.245	
7,900.0	7,264.5	8,100.3	7,469.8	20.6	20.8	121.96	-661.9	-123.2	389.6	352.9	36.64	10.632	
8,000.0	7,264.1	8,200.3	7,469.4	21.9	22.1	121.98	-761.9	-123.2	389.6	350.8	38.83	10.035	
8,100.0	7,263.6	8,300.3	7,469.1	23.2	23.4	121.99	-861.9	-123.2	389.7	348.5	41.17	9.466	
8,200.0	7,263.1	8,400.3	7,468.7	24.7	24.8	122.01	-961.9	-123.2	389.8	346.1	43.64	8.932	
8,300.0	7,262.7	8,500.3	7,468.4	26.1	26.3	122.02	-1,061.9	-123.2	389.8	343.6	46.22	8.435	
8,400.0	7,262.2	8,600.3	7,468.0	27.7	27.8	122.04	-1,161.9	-123.2	389.9	341.0	48.89	7.975	
8,500.0	7,261.7	8,700.3	7,467.7	29.3	29.4	122.05	-1,261.9	-123.2	389.9	338.3	51.63	7.552	
8,600.0	7,261.3	8,800.3	7,467.3	30.9	31.0	122.07	-1,361.9	-123.2	390.0	335.6	54.44	7.164	
8,700.0	7,260.8	8,900.3	7,467.0	32.6	32.7	122.08	-1,461.9	-123.2	390.1	332.8	57.31	6.806	
8,800.0	7,260.3	9,000.3	7,466.6	34.2	34.4	122.10	-1,561.9	-123.2	390.1	329.9	60.22	6.478	
8,900.0	7,259.8	9,100.3	7,466.3	35.9	36.1	122.11	-1,661.9	-123.2	390.2	327.0	63.18	6.176	
9,000.0	7,259.4	9,200.3	7,465.9	37.7	37.8	122.13	-1,761.9	-123.2	390.3	324.1	66.17	5.898	
9,100.0	7,258.9	9,300.3	7,465.6	39.4	39.5	122.14	-1,861.9	-123.2	390.3	321.1	69.19	5.642	
9,200.0	7,258.4	9,400.3	7,465.2	41.2	41.3	122.16	-1,961.9	-123.2	390.4	318.2	72.23	5.405	
9,300.0	7,258.0	9,500.3	7,464.9	42.9	43.0	122.17	-2,061.9	-123.2	390.5	315.2	75.30	5.185	
9,400.0	7,257.5	9,600.3	7,464.5	44.7	44.8	122.19	-2,161.9	-123.2	390.5	312.1	78.39	4.982	
9,500.0	7,257.0	9,700.3	7,464.2	46.5	46.6	122.20	-2,261.9	-123.2	390.6	309.1	81.50	4.793	
9,600.0	7,256.5	9,800.3	7,463.8	48.3	48.4	122.22	-2,361.9	-123.2	390.7	306.0	84.62	4.616	
9,700.0	7,256.1	9,900.3	7,463.5	50.1	50.2	122.23	-2,461.9	-123.2	390.7	303.0	87.76	4.452	
9,800.0	7,255.6	10,000.3	7,463.1	51.9	52.0	122.25	-2,561.9	-123.2	390.8	299.9	90.91	4.299	
9,900.0	7,255.1	10,100.3	7,462.8	53.8	53.9	122.26	-2,661.9	-123.2	390.9	296.8	94.07	4.155	
10,000.0	7,254.7	10,200.3	7,462.4	55.6	55.7	122.28	-2,761.9	-123.2	390.9	293.7	97.24	4.020	
10,100.0	7,254.2	10,300.3	7,462.1	57.4	57.5	122.29	-2,861.9	-123.2	391.0	290.6	100.42	3.893	
10,200.0	7,253.7	10,400.3	7,461.7	59.3	59.4	122.31	-2,961.8	-123.2	391.1	287.4	103.61	3.774	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	7,253.2	10,500.3	7,461.4	61.1	61.2	122.32	-3,061.8	-123.2	391.1	284.3	106.81	3.662	
10,400.0	7,252.8	10,600.3	7,461.0	63.0	63.1	122.34	-3,161.8	-123.2	391.2	281.2	110.01	3.556	
10,500.0	7,252.3	10,700.3	7,460.7	64.8	64.9	122.35	-3,261.8	-123.2	391.2	278.0	113.21	3.456	
10,600.0	7,251.8	10,800.3	7,460.3	66.7	66.8	122.37	-3,361.8	-123.2	391.3	274.9	116.43	3.361	
10,700.0	7,251.4	10,900.3	7,460.0	68.6	68.6	122.38	-3,461.8	-123.2	391.4	271.7	119.64	3.271	
10,800.0	7,250.9	11,000.3	7,459.6	70.4	70.5	122.40	-3,561.8	-123.2	391.4	268.6	122.87	3.186	
10,900.0	7,250.4	11,100.3	7,459.3	72.3	72.4	122.41	-3,661.8	-123.2	391.5	265.4	126.09	3.105	
11,000.0	7,249.9	11,200.3	7,458.9	74.2	74.2	122.43	-3,761.8	-123.2	391.6	262.3	129.32	3.028	
11,100.0	7,249.5	11,300.3	7,458.6	76.0	76.1	122.45	-3,861.8	-123.2	391.6	259.1	132.55	2.955	
11,200.0	7,249.0	11,400.3	7,458.2	77.9	78.0	122.46	-3,961.8	-123.2	391.7	255.9	135.79	2.885	
11,300.0	7,248.5	11,500.3	7,457.9	79.8	79.8	122.48	-4,061.8	-123.2	391.8	252.7	139.03	2.818	
11,400.0	7,248.1	11,600.3	7,457.5	81.7	81.7	122.49	-4,161.8	-123.2	391.8	249.6	142.27	2.754	
11,500.0	7,247.6	11,700.3	7,457.2	83.5	83.6	122.51	-4,261.8	-123.2	391.9	246.4	145.51	2.693	
11,600.0	7,247.1	11,800.3	7,456.8	85.4	85.5	122.52	-4,361.8	-123.2	392.0	243.2	148.75	2.635	
11,700.0	7,246.6	11,900.3	7,456.5	87.3	87.4	122.54	-4,461.8	-123.2	392.0	240.0	152.00	2.579	
11,800.0	7,246.2	12,000.3	7,456.1	89.2	89.2	122.55	-4,561.8	-123.2	392.1	236.9	155.25	2.526	
11,836.2	7,246.0	12,036.6	7,456.0	89.7	89.9	122.56	-4,598.1	-123.2	392.1	235.8	156.30	2.509	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	0.0	0.0	0.0	0.0	-90.00	0.0	-14.0	14.0	14.0	0.00	N/A	
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-14.0	14.0	13.8	0.22	62.609	
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-14.0	14.0	13.3	0.67	20.835	
300.0	300.0	299.0	299.0	0.6	0.6	-90.00	0.0	-14.0	14.0	12.9	1.12	12.484	
400.0	400.0	399.0	399.0	0.8	0.8	-90.00	0.0	-14.0	14.0	12.4	1.57	8.912	
500.0	500.0	499.0	499.0	1.0	1.0	-90.00	0.0	-14.0	14.0	12.0	2.02	6.930	
600.0	600.0	599.0	599.0	1.2	1.2	-90.00	0.0	-14.0	14.0	11.5	2.47	5.669	
700.0	700.0	699.0	699.0	1.5	1.5	-90.00	0.0	-14.0	14.0	11.1	2.92	4.796	
800.0	800.0	799.0	799.0	1.7	1.7	-90.00	0.0	-14.0	14.0	10.6	3.37	4.156	
900.0	900.0	899.0	899.0	1.9	1.9	-90.00	0.0	-14.0	14.0	10.2	3.82	3.667	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	-90.00	0.0	-14.0	14.0	9.7	4.27	3.281	
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.4	-90.00	0.0	-14.0	14.0	9.3	4.72	2.968	
1,200.0	1,200.0	1,199.0	1,199.0	2.6	2.6	-90.00	0.0	-14.0	14.0	8.8	5.17	2.710	
1,300.0	1,300.0	1,299.0	1,299.0	2.8	2.8	-90.00	0.0	-14.0	14.0	8.4	5.62	2.493	
1,400.0	1,400.0	1,399.0	1,399.0	3.0	3.0	-90.00	0.0	-14.0	14.0	7.9	6.07	2.308	CC
1,500.0	1,500.0	1,499.0	1,499.0	3.3	3.3	-143.21	0.0	-14.0	15.4	8.9	6.51	2.360	
1,600.0	1,599.8	1,598.8	1,598.8	3.5	3.5	-152.27	0.0	-14.0	19.8	12.9	6.94	2.853	
1,700.0	1,699.5	1,698.5	1,698.5	3.7	3.7	-160.60	0.0	-14.0	27.8	20.4	7.37	3.776	
1,800.0	1,798.8	1,797.8	1,797.8	3.9	3.9	-166.29	0.0	-14.0	39.1	31.3	7.80	5.010	
1,900.0	1,898.0	1,897.0	1,897.0	4.2	4.2	-169.52	0.0	-14.0	50.9	42.7	8.24	6.181	
2,000.0	1,997.3	1,996.3	1,996.3	4.4	4.4	-171.53	0.0	-14.0	62.9	54.2	8.68	7.241	
2,100.0	2,096.6	2,095.6	2,095.6	4.7	4.6	-172.89	0.0	-14.0	74.9	65.8	9.13	8.202	
2,200.0	2,195.8	2,194.8	2,194.8	5.0	4.8	-173.88	0.0	-14.0	86.9	77.3	9.58	9.075	
2,300.0	2,295.1	2,294.1	2,294.1	5.3	5.0	-174.63	0.0	-14.0	99.0	89.0	10.03	9.870	
2,400.0	2,394.3	2,393.3	2,393.3	5.5	5.3	-175.22	0.0	-14.0	111.1	100.6	10.48	10.598	
2,500.0	2,493.6	2,492.6	2,492.6	5.8	5.5	-175.69	0.0	-14.0	123.1	112.2	10.93	11.265	
2,600.0	2,592.9	2,594.6	2,594.6	6.1	5.7	-175.55	1.6	-14.0	134.3	122.9	11.39	11.792	
2,700.0	2,692.1	2,697.1	2,697.0	6.4	6.0	-174.28	6.8	-13.9	143.3	131.5	11.85	12.098	
2,800.0	2,791.4	2,799.8	2,799.2	6.7	6.2	-172.02	15.7	-13.7	150.4	138.1	12.31	12.216	
2,900.0	2,890.7	2,900.9	2,899.7	7.0	6.4	-168.98	27.7	-13.5	155.9	143.2	12.78	12.202	
3,000.0	2,989.9	3,000.4	2,998.4	7.3	6.6	-166.04	40.0	-13.3	161.6	148.4	13.26	12.192	
3,100.0	3,089.2	3,099.9	3,097.1	7.6	6.9	-163.30	52.4	-13.1	167.7	154.0	13.75	12.201	
3,200.0	3,188.4	3,199.4	3,195.9	7.9	7.1	-160.75	64.7	-12.9	174.2	160.0	14.25	12.224	
3,300.0	3,287.7	3,298.9	3,294.6	8.2	7.4	-158.40	77.1	-12.7	181.0	166.2	14.76	12.259	
3,400.0	3,387.0	3,398.4	3,393.3	8.5	7.6	-156.21	89.4	-12.5	188.0	172.8	15.29	12.302	
3,500.0	3,486.2	3,498.0	3,492.1	8.8	7.9	-154.19	101.8	-12.3	195.4	179.5	15.82	12.352	
3,600.0	3,585.5	3,597.5	3,590.8	9.1	8.2	-152.31	114.1	-12.1	202.9	186.5	16.36	12.405	
3,700.0	3,684.8	3,697.0	3,689.5	9.4	8.4	-150.57	126.5	-11.9	210.5	193.6	16.90	12.452	
3,800.0	3,784.3	3,796.5	3,788.3	9.6	8.7	-148.62	138.8	-11.7	216.0	198.5	17.43	12.392	
3,900.0	3,884.2	3,896.1	3,887.1	9.8	9.0	-146.25	151.2	-11.5	218.8	200.9	17.95	12.193	
4,000.0	3,984.1	3,995.1	3,985.5	10.0	9.3	-143.47	163.2	-11.3	219.2	200.8	18.44	11.891	
4,100.0	4,084.1	4,094.2	4,084.0	10.1	9.5	-92.14	172.3	-11.1	218.6	199.7	18.88	11.578	
4,200.0	4,184.1	4,193.7	4,183.4	10.3	9.7	-90.62	178.1	-11.0	218.3	199.0	19.31	11.309	
4,300.0	4,284.1	4,293.5	4,283.2	10.5	9.8	-90.01	180.5	-11.0	218.3	198.6	19.70	11.080	
4,340.0	4,324.2	4,333.5	4,323.2	10.6	9.9	-90.00	180.5	-11.0	218.3	198.4	19.86	10.993	
4,400.0	4,384.1	4,393.5	4,383.1	10.7	10.0	-90.00	180.5	-11.0	218.3	198.2	20.09	10.864	
4,500.0	4,484.1	4,493.5	4,483.1	10.9	10.2	-90.00	180.5	-11.0	218.3	197.8	20.51	10.643	
4,600.0	4,584.1	4,593.5	4,583.1	11.1	10.4	-90.00	180.5	-11.0	218.3	197.3	20.93	10.430	
4,700.0	4,684.1	4,693.5	4,683.1	11.3	10.7	-90.00	180.5	-11.0	218.3	196.9	21.35	10.224	
4,800.0	4,784.1	4,793.5	4,783.1	11.5	10.9	-90.00	180.5	-11.0	218.3	196.5	21.77	10.026	
4,900.0	4,884.1	4,893.5	4,883.1	11.7	11.1	-90.00	180.5	-11.0	218.3	196.1	22.19	9.835	
5,000.0	4,984.1	4,993.5	4,983.1	11.9	11.3	-90.00	180.5	-11.0	218.3	195.7	22.62	9.651	

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-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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
5,100.0	5,084.1	5,093.5	5,083.1	12.1	11.5	-90.00	180.5	-11.0	218.3	195.2	23.04	9.473	
5,200.0	5,184.1	5,193.5	5,183.1	12.3	11.7	-90.00	180.5	-11.0	218.3	194.8	23.47	9.301	
5,300.0	5,284.1	5,293.5	5,283.1	12.5	11.9	-90.00	180.5	-11.0	218.3	194.4	23.89	9.135	
5,400.0	5,384.1	5,393.5	5,383.1	12.7	12.2	-90.00	180.5	-11.0	218.3	194.0	24.32	8.975	
5,500.0	5,484.1	5,493.5	5,483.1	12.9	12.4	-90.00	180.5	-11.0	218.3	193.5	24.75	8.819	
5,600.0	5,584.1	5,593.5	5,583.1	13.1	12.6	-90.00	180.5	-11.0	218.3	193.1	25.18	8.669	
5,700.0	5,684.1	5,693.5	5,683.1	13.3	12.8	-90.00	180.5	-11.0	218.3	192.7	25.61	8.524	
5,800.0	5,784.1	5,793.5	5,783.1	13.6	13.0	-90.00	180.5	-11.0	218.3	192.2	26.04	8.383	
5,900.0	5,884.1	5,893.5	5,883.1	13.8	13.2	-90.00	180.5	-11.0	218.3	191.8	26.47	8.246	
6,000.0	5,984.1	5,993.5	5,983.1	14.0	13.5	-90.00	180.5	-11.0	218.3	191.4	26.90	8.114	
6,100.0	6,084.1	6,093.5	6,083.1	14.2	13.7	-90.00	180.5	-11.0	218.3	190.9	27.33	7.986	
6,200.0	6,184.1	6,193.5	6,183.1	14.4	13.9	-90.00	180.5	-11.0	218.3	190.5	27.77	7.861	
6,300.0	6,284.1	6,293.5	6,283.1	14.6	14.1	-90.00	180.5	-11.0	218.3	190.1	28.20	7.741	
6,400.0	6,384.1	6,393.5	6,383.1	14.8	14.3	-90.00	180.5	-11.0	218.3	189.6	28.63	7.623	
6,500.0	6,484.1	6,493.5	6,483.1	15.0	14.5	-90.00	180.5	-11.0	218.3	189.2	29.07	7.510	
6,600.0	6,584.1	6,593.5	6,583.1	15.2	14.8	-90.00	180.5	-11.0	218.3	188.8	29.50	7.399	
6,700.0	6,684.1	6,693.5	6,683.1	15.4	15.0	-90.00	180.5	-11.0	218.3	188.3	29.94	7.291	
6,800.0	6,784.1	6,793.7	6,783.3	15.6	15.2	90.00	179.0	-11.0	218.3	187.9	30.34	7.193	
6,900.0	6,882.5	6,894.1	6,882.1	15.8	15.3	90.00	161.9	-10.8	218.1	187.5	30.56	7.136	
7,000.0	6,975.8	6,994.5	6,975.8	15.8	15.4	90.00	126.2	-10.4	217.7	187.0	30.68	7.095	
7,100.0	7,060.7	7,094.9	7,060.9	15.9	15.4	90.00	73.2	-9.8	217.1	186.3	30.78	7.052	
7,200.0	7,134.0	7,195.3	7,134.2	16.0	15.5	90.00	4.9	-9.1	216.3	185.3	30.99	6.982	
7,300.0	7,193.0	7,295.6	7,193.1	16.1	15.7	90.01	-76.1	-8.2	215.4	184.0	31.41	6.859	
7,400.0	7,235.5	7,395.7	7,235.3	16.3	16.1	90.01	-166.8	-7.2	214.4	182.3	32.15	6.669	
7,500.0	7,260.0	7,495.9	7,259.4	16.8	16.7	90.00	-263.8	-6.1	213.4	180.1	33.26	6.415	
7,600.0	7,266.0	7,595.9	7,265.0	17.5	17.4	90.00	-363.5	-5.0	212.3	177.5	34.71	6.115	
7,700.0	7,265.5	7,695.9	7,264.5	18.4	18.3	90.00	-463.5	-3.9	211.1	174.6	36.50	5.785	
7,800.0	7,265.0	7,795.9	7,264.0	19.5	19.3	90.01	-563.5	-2.8	210.0	171.5	38.58	5.444	
7,900.0	7,264.5	7,895.9	7,263.6	20.6	20.5	90.01	-663.5	-1.6	208.9	168.0	40.92	5.105	
8,000.0	7,264.1	7,995.9	7,263.1	21.9	21.8	90.01	-763.4	-0.5	207.8	164.3	43.48	4.780	
8,100.0	7,263.6	8,095.8	7,262.6	23.2	23.2	90.01	-863.4	0.6	206.7	160.5	46.21	4.474	
8,200.0	7,263.1	8,195.8	7,262.1	24.7	24.6	90.01	-963.4	1.7	205.6	156.5	49.08	4.189	
8,300.0	7,262.7	8,295.8	7,261.7	26.1	26.1	90.01	-1,063.4	2.8	204.5	152.4	52.09	3.926	
8,400.0	7,262.2	8,395.8	7,261.2	27.7	27.7	90.01	-1,163.4	3.9	203.4	148.2	55.19	3.685	
8,500.0	7,261.7	8,495.8	7,260.7	29.3	29.3	90.01	-1,263.4	5.0	202.3	143.9	58.38	3.465	
8,600.0	7,261.3	8,595.8	7,260.3	30.9	30.9	90.01	-1,363.4	6.1	201.2	139.5	61.65	3.263	
8,700.0	7,260.8	8,695.8	7,259.8	32.6	32.6	90.01	-1,463.4	7.2	200.1	135.1	64.97	3.079	
8,800.0	7,260.3	8,795.8	7,259.3	34.2	34.3	90.01	-1,563.3	8.3	198.9	130.6	68.35	2.911	
8,900.0	7,259.8	8,895.8	7,258.8	35.9	36.0	90.01	-1,663.3	9.4	197.8	126.1	71.78	2.756	
9,000.0	7,259.4	8,995.8	7,258.4	37.7	37.7	90.01	-1,763.3	10.6	196.7	121.5	75.24	2.615	
9,100.0	7,258.9	9,095.8	7,257.9	39.4	39.5	90.01	-1,863.3	11.7	195.6	116.9	78.74	2.484	
9,200.0	7,258.4	9,195.8	7,257.4	41.2	41.2	90.01	-1,963.3	12.8	194.5	112.2	82.27	2.364	
9,300.0	7,258.0	9,295.8	7,257.0	42.9	43.0	90.01	-2,063.3	13.9	193.4	107.6	85.83	2.253	
9,400.0	7,257.5	9,395.8	7,256.5	44.7	44.8	90.01	-2,163.3	15.0	192.3	102.9	89.41	2.151	
9,500.0	7,257.0	9,495.8	7,256.0	46.5	46.6	90.01	-2,263.2	16.1	191.2	98.2	93.01	2.056	
9,600.0	7,256.5	9,595.8	7,255.5	48.3	48.4	90.01	-2,363.2	17.2	190.1	93.5	96.62	1.967	
9,700.0	7,256.1	9,695.7	7,255.1	50.1	50.2	90.01	-2,463.2	18.3	189.0	88.7	100.26	1.885	
9,800.0	7,255.6	9,795.7	7,254.6	51.9	52.1	90.01	-2,563.2	19.4	187.9	84.0	103.91	1.808	
9,900.0	7,255.1	9,895.7	7,254.1	53.8	53.9	90.01	-2,663.2	20.5	186.8	79.2	107.57	1.736	
10,000.0	7,254.7	9,995.7	7,253.7	55.6	55.7	90.01	-2,763.2	21.6	185.6	74.4	111.24	1.669	
10,100.0	7,254.2	10,095.7	7,253.2	57.4	57.6	90.01	-2,863.2	22.7	184.5	69.6	114.92	1.606	
10,200.0	7,253.7	10,195.7	7,252.7	59.3	59.4	90.01	-2,963.2	23.9	183.4	64.8	118.62	1.546	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	7,253.2	10,295.7	7,252.2	61.1	61.3	90.01	-3,063.1	25.0	182.3	60.0	122.32	1.491	Level 3
10,400.0	7,252.8	10,395.7	7,251.8	63.0	63.1	90.01	-3,163.1	26.1	181.2	55.2	126.03	1.438	Level 3
10,500.0	7,252.3	10,495.7	7,251.3	64.8	65.0	90.01	-3,263.1	27.2	180.1	50.4	129.74	1.388	Level 3
10,600.0	7,251.8	10,595.7	7,250.8	66.7	66.9	90.01	-3,363.1	28.3	179.0	45.5	133.47	1.341	Level 3
10,700.0	7,251.4	10,695.7	7,250.4	68.6	68.7	90.01	-3,463.1	29.4	177.9	40.7	137.20	1.297	Level 3
10,800.0	7,250.9	10,795.7	7,249.9	70.4	70.6	90.01	-3,563.1	30.5	176.8	35.8	140.93	1.254	Level 3
10,900.0	7,250.4	10,895.7	7,249.4	72.3	72.5	90.01	-3,663.1	31.6	175.7	31.0	144.67	1.214	Level 2
11,000.0	7,249.9	10,995.7	7,248.9	74.2	74.3	90.01	-3,763.0	32.7	174.6	26.1	148.42	1.176	Level 2
11,100.0	7,249.5	11,095.7	7,248.5	76.0	76.2	90.01	-3,863.0	33.8	173.4	21.3	152.17	1.140	Level 2
11,200.0	7,249.0	11,195.7	7,248.0	77.9	78.1	90.01	-3,963.0	34.9	172.3	16.4	155.92	1.105	Level 2
11,300.0	7,248.5	11,295.6	7,247.5	79.8	80.0	90.01	-4,063.0	36.1	171.2	11.6	159.68	1.072	Level 2
11,400.0	7,248.1	11,395.6	7,247.1	81.7	81.9	90.01	-4,163.0	37.2	170.1	6.7	163.44	1.041	Level 2
11,500.0	7,247.6	11,495.6	7,246.6	83.5	83.7	90.01	-4,263.0	38.3	169.0	1.8	167.20	1.011	Level 2
11,600.0	7,247.1	11,595.6	7,246.1	85.4	85.6	90.01	-4,363.0	39.4	167.9	-3.1	170.97	0.982	Level 1
11,700.0	7,246.6	11,695.6	7,245.7	87.3	87.5	90.01	-4,463.0	40.5	166.8	-7.9	174.74	0.955	Level 1
11,800.0	7,246.2	11,795.6	7,245.2	89.2	89.4	90.01	-4,562.9	41.6	165.7	-12.8	178.51	0.928	Level 1
11,836.2	7,246.0	11,831.8	7,245.0	89.7	90.1	90.01	-4,599.1	42.0	165.3	-14.5	179.75	0.920	Level 1, ES, SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	0.0	0.0	0.0	0.0	90.02	0.0	14.0	14.0	14.0	0.00	N/A	
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	14.0	14.0	13.8	0.22	62.297	
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	14.0	14.0	13.3	0.67	20.766	
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	14.0	14.0	12.9	1.12	12.459	
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	14.0	14.0	12.4	1.57	8.900	
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	14.0	14.0	12.0	2.02	6.922	
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	14.0	14.0	11.5	2.47	5.663	
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	14.0	14.0	11.1	2.92	4.792	
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	14.0	14.0	10.6	3.37	4.153	
900.0	900.0	900.0	900.0	1.9	1.9	90.02	0.0	14.0	14.0	10.2	3.82	3.665	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.02	0.0	14.0	14.0	9.7	4.27	3.279	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.02	0.0	14.0	14.0	9.3	4.72	2.967	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.02	0.0	14.0	14.0	8.8	5.17	2.709	CC
1,300.0	1,300.0	1,299.5	1,299.5	2.8	2.8	87.11	0.8	15.5	15.6	10.0	5.61	2.774	
1,400.0	1,400.0	1,398.8	1,398.7	3.0	3.0	81.12	3.1	20.1	20.4	14.4	6.05	3.376	
1,500.0	1,500.0	1,497.8	1,497.2	3.3	3.2	28.36	7.1	27.8	27.2	20.8	6.48	4.205	
1,600.0	1,599.8	1,596.8	1,595.6	3.5	3.5	27.45	12.5	38.3	34.2	27.3	6.90	4.957	
1,700.0	1,699.5	1,696.7	1,694.7	3.7	3.7	28.89	18.3	49.6	38.9	31.6	7.32	5.314	
1,800.0	1,798.8	1,796.7	1,793.8	3.9	4.0	32.16	24.1	61.0	41.0	33.3	7.76	5.288	
1,900.0	1,898.0	1,896.6	1,892.9	4.2	4.3	35.41	29.9	72.3	43.0	34.8	8.22	5.226	
2,000.0	1,997.3	1,996.6	1,992.1	4.4	4.5	38.37	35.8	83.6	45.0	36.3	8.70	5.177	
2,100.0	2,096.6	2,096.5	2,091.2	4.7	4.8	41.07	41.6	95.0	47.2	38.0	9.19	5.138	
2,200.0	2,195.8	2,196.5	2,190.3	5.0	5.1	43.53	47.4	106.3	49.5	39.8	9.69	5.105	
2,300.0	2,295.1	2,296.4	2,289.5	5.3	5.4	45.76	53.3	117.7	51.8	41.6	10.21	5.077	
2,400.0	2,394.3	2,396.4	2,388.6	5.5	5.7	47.80	59.1	129.0	54.2	43.5	10.73	5.054	
2,500.0	2,493.6	2,496.3	2,487.7	5.8	6.0	49.67	64.9	140.4	56.7	45.5	11.27	5.033	
2,600.0	2,592.9	2,596.3	2,586.9	6.1	6.3	51.37	70.7	151.7	59.3	47.4	11.82	5.015	
2,700.0	2,692.1	2,696.2	2,686.0	6.4	6.6	52.94	76.6	163.1	61.8	49.5	12.37	4.999	
2,800.0	2,791.4	2,796.2	2,785.2	6.7	6.9	54.38	82.4	174.4	64.5	51.5	12.93	4.985	
2,900.0	2,890.7	2,896.2	2,884.3	7.0	7.3	55.70	88.2	185.7	67.1	53.6	13.50	4.972	
3,000.0	2,989.9	2,996.1	2,983.4	7.3	7.6	56.93	94.1	197.1	69.8	55.8	14.08	4.960	
3,100.0	3,089.2	3,096.1	3,082.6	7.6	7.9	58.06	99.9	208.4	72.6	57.9	14.66	4.950	
3,200.0	3,188.4	3,196.0	3,181.7	7.9	8.2	59.11	105.7	219.8	75.3	60.1	15.25	4.940	
3,300.0	3,287.7	3,296.0	3,280.8	8.2	8.5	60.08	111.5	231.1	78.1	62.3	15.84	4.932	
3,400.0	3,387.0	3,395.9	3,380.0	8.5	8.8	60.99	117.4	242.5	80.9	64.5	16.43	4.924	
3,500.0	3,486.2	3,495.9	3,479.1	8.8	9.1	61.84	123.2	253.8	83.7	66.7	17.03	4.917	
3,600.0	3,585.5	3,595.8	3,578.2	9.1	9.5	62.63	129.0	265.2	86.5	68.9	17.63	4.910	
3,700.0	3,684.8	3,695.8	3,677.4	9.4	9.8	63.28	134.9	276.5	89.5	71.3	18.22	4.912	
3,800.0	3,784.3	3,795.7	3,776.5	9.6	10.1	62.48	140.7	287.8	93.6	75.0	18.68	5.012	
3,900.0	3,884.2	3,895.4	3,875.4	9.8	10.4	60.01	146.5	299.2	99.5	80.5	19.05	5.225	
4,000.0	3,984.1	3,994.8	3,974.0	10.0	10.7	56.29	152.3	310.4	107.5	88.2	19.31	5.565	
4,100.0	4,084.1	4,094.0	4,072.4	10.1	11.0	101.08	158.1	321.7	117.2	97.6	19.55	5.995	
4,200.0	4,184.1	4,193.2	4,170.7	10.3	11.4	97.54	163.9	333.0	127.5	107.7	19.84	6.427	
4,300.0	4,284.1	4,292.4	4,269.1	10.5	11.7	94.53	169.7	344.2	138.2	118.0	20.15	6.859	
4,400.0	4,384.1	4,393.2	4,369.1	10.7	12.0	91.96	175.4	355.5	149.0	128.6	20.48	7.279	
4,500.0	4,484.1	4,497.6	4,473.0	10.9	12.2	90.15	180.1	364.5	157.6	136.8	20.81	7.577	
4,600.0	4,584.1	4,602.7	4,577.9	11.1	12.4	89.12	183.0	370.2	163.1	141.9	21.16	7.707	
4,700.0	4,684.1	4,708.1	4,683.3	11.3	12.6	88.73	184.2	372.5	165.3	143.7	21.54	7.673	
4,800.0	4,784.1	4,809.0	4,784.1	11.5	12.8	88.72	184.2	372.5	165.3	143.4	21.93	7.537	
4,900.0	4,884.1	4,909.0	4,884.1	11.7	12.9	88.72	184.2	372.5	165.3	143.0	22.34	7.398	
5,000.0	4,984.1	5,009.0	4,984.1	11.9	13.1	88.72	184.2	372.5	165.3	142.5	22.75	7.264	
5,100.0	5,084.1	5,109.0	5,084.1	12.1	13.3	88.72	184.2	372.5	165.3	142.1	23.17	7.135	

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-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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
5,200.0	5,184.1	5,209.0	5,184.1	12.3	13.5	88.72	184.2	372.5	165.3	141.7	23.58	7.009	
5,300.0	5,284.1	5,309.0	5,284.1	12.5	13.7	88.72	184.2	372.5	165.3	141.3	24.00	6.888	
5,400.0	5,384.1	5,409.0	5,384.1	12.7	13.9	88.72	184.2	372.5	165.3	140.9	24.42	6.770	
5,500.0	5,484.1	5,509.0	5,484.1	12.9	14.0	88.72	184.2	372.5	165.3	140.5	24.83	6.656	
5,600.0	5,584.1	5,609.0	5,584.1	13.1	14.2	88.72	184.2	372.5	165.3	140.0	25.25	6.545	
5,700.0	5,684.1	5,709.0	5,684.1	13.3	14.4	88.72	184.2	372.5	165.3	139.6	25.67	6.438	
5,800.0	5,784.1	5,809.0	5,784.1	13.6	14.6	88.72	184.2	372.5	165.3	139.2	26.10	6.334	
5,900.0	5,884.1	5,909.0	5,884.1	13.8	14.8	88.72	184.2	372.5	165.3	138.8	26.52	6.233	
6,000.0	5,984.1	6,009.0	5,984.1	14.0	15.0	88.72	184.2	372.5	165.3	138.4	26.94	6.135	
6,100.0	6,084.1	6,109.0	6,084.1	14.2	15.2	88.72	184.2	372.5	165.3	137.9	27.37	6.040	
6,200.0	6,184.1	6,209.0	6,184.1	14.4	15.4	88.72	184.2	372.5	165.3	137.5	27.79	5.948	
6,300.0	6,284.1	6,309.0	6,284.1	14.6	15.6	88.72	184.2	372.5	165.3	137.1	28.22	5.858	
6,400.0	6,384.1	6,409.0	6,384.1	14.8	15.8	88.72	184.2	372.5	165.3	136.7	28.64	5.771	
6,500.0	6,484.1	6,509.0	6,484.1	15.0	16.0	88.72	184.2	372.5	165.3	136.2	29.07	5.686	
6,600.0	6,584.1	6,609.0	6,584.1	15.2	16.2	88.72	184.2	372.5	165.3	135.8	29.50	5.604	
6,700.0	6,684.1	6,709.0	6,684.1	15.4	16.4	88.72	184.2	372.5	165.3	135.4	29.93	5.524	
6,800.0	6,784.1	6,809.2	6,784.4	15.6	16.5	-91.30	182.8	372.5	165.3	135.0	30.32	5.451	
6,900.0	6,882.5	6,910.0	6,883.5	15.8	16.7	-91.31	165.7	372.5	165.3	134.8	30.55	5.412	
7,000.0	6,975.8	7,010.7	6,977.5	15.8	16.7	-91.27	129.9	372.5	165.3	134.6	30.67	5.389	
7,100.0	7,060.7	7,111.4	7,062.8	15.9	16.8	-91.18	76.7	372.5	165.3	134.5	30.78	5.370	
7,200.0	7,134.0	7,212.0	7,136.3	16.0	16.8	-91.05	8.2	372.5	165.3	134.3	30.99	5.333	
7,300.0	7,193.0	7,312.5	7,195.2	16.1	16.9	-90.88	-73.0	372.5	165.3	133.9	31.41	5.261	
7,400.0	7,235.5	7,413.0	7,237.4	16.3	17.2	-90.68	-164.0	372.5	165.3	133.1	32.15	5.140	
7,500.0	7,260.0	7,513.3	7,261.3	16.8	17.6	-90.45	-261.3	372.5	165.3	132.0	33.25	4.971	
7,600.0	7,266.0	7,613.4	7,266.7	17.5	18.2	-90.26	-361.2	372.5	165.3	130.6	34.70	4.763	
7,700.0	7,265.5	7,713.4	7,266.2	18.4	19.0	-90.25	-461.2	372.5	165.3	128.8	36.47	4.531	
7,800.0	7,265.0	7,813.4	7,265.7	19.5	20.0	-90.24	-561.2	372.5	165.3	126.7	38.54	4.288	
7,900.0	7,264.5	7,913.4	7,265.2	20.6	21.2	-90.24	-661.1	372.5	165.3	124.4	40.87	4.043	
8,000.0	7,264.1	8,013.4	7,264.7	21.9	22.4	-90.23	-761.1	372.5	165.3	121.8	43.41	3.807	
8,100.0	7,263.6	8,113.4	7,264.3	23.2	23.7	-90.23	-861.1	372.5	165.3	119.1	46.13	3.582	
8,200.0	7,263.1	8,213.4	7,263.8	24.7	25.1	-90.22	-961.1	372.5	165.3	116.3	49.00	3.372	
8,300.0	7,262.7	8,313.4	7,263.3	26.1	26.6	-90.21	-1,061.1	372.5	165.3	113.3	52.00	3.178	
8,400.0	7,262.2	8,413.4	7,262.8	27.7	28.1	-90.21	-1,161.1	372.5	165.3	110.2	55.09	3.000	
8,500.0	7,261.7	8,513.4	7,262.3	29.3	29.7	-90.20	-1,261.1	372.5	165.3	107.0	58.28	2.836	
8,600.0	7,261.3	8,613.4	7,261.8	30.9	31.3	-90.20	-1,361.1	372.5	165.3	103.7	61.54	2.686	
8,700.0	7,260.8	8,713.4	7,261.3	32.6	32.9	-90.19	-1,461.1	372.5	165.3	100.4	64.86	2.548	
8,800.0	7,260.3	8,813.4	7,260.8	34.2	34.6	-90.18	-1,561.1	372.5	165.3	97.0	68.23	2.422	
8,900.0	7,259.8	8,913.4	7,260.3	35.9	36.3	-90.18	-1,661.1	372.5	165.3	93.6	71.65	2.306	
9,000.0	7,259.4	9,013.4	7,259.9	37.7	38.0	-90.17	-1,761.1	372.5	165.3	90.1	75.11	2.200	
9,100.0	7,258.9	9,113.4	7,259.4	39.4	39.7	-90.17	-1,861.1	372.5	165.3	86.6	78.61	2.102	
9,200.0	7,258.4	9,213.4	7,258.9	41.2	41.4	-90.16	-1,961.1	372.5	165.3	83.1	82.13	2.012	
9,300.0	7,258.0	9,313.4	7,258.4	42.9	43.2	-90.15	-2,061.1	372.5	165.3	79.6	85.68	1.929	
9,400.0	7,257.5	9,413.4	7,257.9	44.7	45.0	-90.15	-2,161.1	372.5	165.3	76.0	89.25	1.851	
9,500.0	7,257.0	9,513.4	7,257.4	46.5	46.8	-90.14	-2,261.1	372.5	165.3	72.4	92.85	1.780	
9,600.0	7,256.5	9,613.4	7,256.9	48.3	48.6	-90.14	-2,361.1	372.5	165.3	68.8	96.46	1.713	
9,700.0	7,256.1	9,713.4	7,256.4	50.1	50.4	-90.13	-2,461.1	372.5	165.3	65.2	100.09	1.651	
9,800.0	7,255.6	9,813.4	7,256.0	51.9	52.2	-90.12	-2,561.1	372.5	165.3	61.5	103.73	1.593	
9,900.0	7,255.1	9,913.4	7,255.5	53.8	54.0	-90.12	-2,661.1	372.5	165.3	57.9	107.39	1.539	
10,000.0	7,254.7	10,013.4	7,255.0	55.6	55.8	-90.11	-2,761.1	372.5	165.3	54.2	111.06	1.488	Level 3
10,100.0	7,254.2	10,113.4	7,254.5	57.4	57.6	-90.11	-2,861.1	372.5	165.3	50.5	114.74	1.440	Level 3
10,200.0	7,253.7	10,213.4	7,254.0	59.3	59.5	-90.10	-2,961.1	372.5	165.3	46.8	118.43	1.395	Level 3
10,300.0	7,253.2	10,313.4	7,253.5	61.1	61.3	-90.09	-3,061.1	372.5	165.3	43.1	122.12	1.353	Level 3

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-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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
10,400.0	7,252.8	10,413.4	7,253.0	63.0	63.2	-90.09	-3,161.1	372.5	165.3	39.4	125.83	1.313	Level 3
10,500.0	7,252.3	10,513.4	7,252.5	64.8	65.0	-90.08	-3,261.1	372.5	165.3	35.7	129.54	1.276	Level 3
10,600.0	7,251.8	10,613.4	7,252.0	66.7	66.9	-90.07	-3,361.1	372.5	165.3	32.0	133.26	1.240	Level 2
10,700.0	7,251.4	10,713.4	7,251.6	68.6	68.7	-90.07	-3,461.1	372.5	165.3	28.3	136.99	1.206	Level 2
10,800.0	7,250.9	10,813.4	7,251.1	70.4	70.6	-90.06	-3,561.1	372.5	165.3	24.5	140.72	1.174	Level 2
10,900.0	7,250.4	10,913.4	7,250.6	72.3	72.5	-90.06	-3,661.1	372.5	165.3	20.8	144.46	1.144	Level 2
11,000.0	7,249.9	11,013.4	7,250.1	74.2	74.3	-90.05	-3,761.1	372.5	165.3	17.1	148.20	1.115	Level 2
11,100.0	7,249.5	11,113.4	7,249.6	76.0	76.2	-90.04	-3,861.1	372.5	165.3	13.3	151.94	1.088	Level 2
11,200.0	7,249.0	11,213.4	7,249.1	77.9	78.1	-90.04	-3,961.1	372.5	165.3	9.6	155.69	1.061	Level 2
11,300.0	7,248.5	11,313.4	7,248.6	79.8	79.9	-90.03	-4,061.1	372.5	165.3	5.8	159.45	1.036	Level 2
11,400.0	7,248.1	11,413.4	7,248.1	81.7	81.8	-90.03	-4,161.1	372.5	165.3	2.1	163.20	1.013	Level 2
11,500.0	7,247.6	11,513.4	7,247.6	83.5	83.7	-90.02	-4,261.1	372.5	165.3	-1.7	166.96	0.990	Level 1
11,600.0	7,247.1	11,613.4	7,247.2	85.4	85.6	-90.01	-4,361.1	372.5	165.3	-5.5	170.73	0.968	Level 1
11,700.0	7,246.6	11,713.4	7,246.7	87.3	87.4	-90.01	-4,461.1	372.5	165.3	-9.2	174.49	0.947	Level 1
11,800.0	7,246.2	11,813.4	7,246.2	89.2	89.3	-90.00	-4,561.1	372.5	165.3	-13.0	178.22	0.927	Level 1
11,829.1	7,246.0	11,842.6	7,246.0	89.6	89.7	-90.00	-4,590.2	372.5	165.3	-13.9	179.11	0.923	Level 1
11,836.2	7,246.0	11,849.6	7,246.0	89.7	89.8	-90.00	-4,597.3	372.5	165.3	-14.1	179.32	0.922	Level 1, ES, SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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	1.0	1.0	0.0	0.0	90.00	0.0	30.8	30.8	30.8	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	90.00	0.0	30.8	30.8	30.6	0.23	135.696	
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	30.8	30.8	30.1	0.68	45.533	
300.0	300.0	301.0	301.0	0.6	0.6	90.00	0.0	30.8	30.8	29.7	1.13	27.356	
400.0	400.0	401.0	401.0	0.8	0.8	90.00	0.0	30.8	30.8	29.2	1.58	19.551	
500.0	500.0	501.0	501.0	1.0	1.0	90.00	0.0	30.8	30.8	28.8	2.03	15.211	
600.0	600.0	601.0	601.0	1.2	1.2	90.00	0.0	30.8	30.8	28.3	2.47	12.448	
700.0	700.0	701.0	701.0	1.5	1.5	90.00	0.0	30.8	30.8	27.9	2.92	10.534	
800.0	800.0	801.0	801.0	1.7	1.7	90.00	0.0	30.8	30.8	27.4	3.37	9.131	
900.0	900.0	901.0	901.0	1.9	1.9	90.00	0.0	30.8	30.8	27.0	3.82	8.057	
966.3	966.3	967.3	967.3	2.1	2.1	90.00	0.0	30.8	30.8	26.7	4.12	7.474	CC
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	90.00	0.0	30.8	30.8	26.5	4.27	7.210	ES
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	88.95	0.6	32.4	32.5	27.8	4.71	6.890	
1,200.0	1,200.0	1,198.7	1,198.5	2.6	2.6	86.39	2.4	37.3	37.4	32.3	5.15	7.272	
1,300.0	1,300.0	1,296.9	1,296.4	2.8	2.8	83.38	5.2	45.3	45.8	40.2	5.59	8.191	
1,400.0	1,400.0	1,394.5	1,393.2	3.0	3.0	80.66	9.3	56.3	57.6	51.5	6.04	9.527	
1,500.0	1,500.0	1,492.9	1,490.6	3.3	3.3	30.13	14.2	69.9	70.6	64.1	6.46	10.936	
1,600.0	1,599.8	1,592.3	1,588.9	3.5	3.6	30.22	19.3	83.9	80.9	74.0	6.88	11.749	
1,700.0	1,699.5	1,692.1	1,687.5	3.7	3.9	31.44	24.4	97.9	88.1	80.8	7.31	12.052	
1,800.0	1,798.8	1,791.9	1,786.2	3.9	4.2	33.52	29.5	111.9	92.9	85.2	7.76	11.974	
1,900.0	1,898.0	1,891.7	1,884.9	4.2	4.5	35.55	34.6	125.9	97.5	89.3	8.23	11.850	
2,000.0	1,997.3	1,991.6	1,983.6	4.4	4.8	37.39	39.7	139.9	102.2	93.5	8.71	11.737	
2,100.0	2,096.6	2,091.4	2,082.4	4.7	5.1	39.07	44.7	154.0	107.0	97.8	9.20	11.633	
2,200.0	2,195.8	2,191.2	2,181.1	5.0	5.5	40.61	49.8	168.0	111.9	102.2	9.70	11.537	
2,300.0	2,295.1	2,291.1	2,279.8	5.3	5.8	42.02	54.9	182.0	116.8	106.6	10.21	11.446	
2,400.0	2,394.3	2,390.9	2,378.5	5.5	6.1	43.31	60.0	196.0	121.8	111.1	10.72	11.360	
2,500.0	2,493.6	2,490.8	2,477.2	5.8	6.5	44.50	65.1	210.0	126.9	115.6	11.25	11.280	
2,600.0	2,592.9	2,590.6	2,576.0	6.1	6.8	45.60	70.2	224.1	132.0	120.2	11.78	11.204	
2,700.0	2,692.1	2,690.4	2,674.7	6.4	7.2	46.62	75.3	238.1	137.2	124.9	12.32	11.132	
2,800.0	2,791.4	2,790.3	2,773.4	6.7	7.5	47.56	80.4	252.1	142.4	129.5	12.87	11.063	
2,900.0	2,890.7	2,890.1	2,872.1	7.0	7.8	48.43	85.5	266.1	147.6	134.2	13.42	10.999	
3,000.0	2,989.9	2,989.9	2,970.8	7.3	8.2	49.25	90.6	280.1	152.9	138.9	13.98	10.938	
3,100.0	3,089.2	3,089.8	3,069.5	7.6	8.5	50.01	95.7	294.2	158.2	143.6	14.54	10.880	
3,200.0	3,188.4	3,189.6	3,168.3	7.9	8.9	50.72	100.8	308.2	163.5	148.4	15.11	10.824	
3,300.0	3,287.7	3,289.5	3,267.0	8.2	9.2	51.39	105.9	322.2	168.9	153.2	15.68	10.772	
3,400.0	3,387.0	3,389.3	3,365.7	8.5	9.6	52.01	111.0	336.2	174.2	158.0	16.25	10.723	
3,500.0	3,486.2	3,489.1	3,464.4	8.8	9.9	52.60	116.1	350.3	179.6	162.8	16.83	10.675	
3,600.0	3,585.5	3,589.0	3,563.1	9.1	10.3	53.16	121.2	364.3	185.0	167.6	17.41	10.631	
3,700.0	3,684.8	3,688.8	3,661.8	9.4	10.6	53.66	126.3	378.3	190.6	172.6	17.98	10.600	
3,800.0	3,784.3	3,788.5	3,760.5	9.6	11.0	53.60	131.3	392.3	197.7	179.2	18.46	10.709	
3,900.0	3,884.2	3,888.1	3,858.9	9.8	11.3	52.80	136.4	406.3	206.9	188.0	18.87	10.962	
4,000.0	3,984.1	3,987.2	3,956.9	10.0	11.7	51.39	141.5	420.2	218.3	199.1	19.22	11.358	
4,100.0	4,084.1	4,086.1	4,054.7	10.1	12.0	98.52	146.5	434.1	231.4	211.8	19.56	11.829	
4,200.0	4,184.1	4,185.0	4,152.5	10.3	12.4	96.85	151.6	448.0	244.6	224.7	19.92	12.278	
4,300.0	4,284.1	4,283.9	4,250.2	10.5	12.7	95.36	156.6	461.9	258.1	237.8	20.30	12.714	
4,400.0	4,384.1	4,382.7	4,348.0	10.7	13.1	94.01	161.7	475.7	271.7	251.0	20.68	13.135	
4,500.0	4,484.1	4,481.6	4,445.8	10.9	13.5	92.80	166.7	489.6	285.4	264.4	21.08	13.543	
4,600.0	4,584.1	4,580.5	4,543.5	11.1	13.8	91.69	171.8	503.5	299.3	277.8	21.47	13.936	
4,700.0	4,684.1	4,687.4	4,649.3	11.3	14.1	90.68	176.8	517.5	312.3	290.5	21.88	14.276	
4,800.0	4,784.1	4,798.4	4,759.7	11.5	14.4	89.95	180.8	528.3	322.0	299.8	22.27	14.461	
4,900.0	4,884.1	4,910.1	4,871.2	11.7	14.6	89.53	183.2	535.1	328.1	305.4	22.66	14.478	
5,000.0	4,984.1	5,022.2	4,983.3	11.9	14.8	89.36	184.2	537.7	330.5	307.4	23.06	14.333	

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-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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
5,100.0	5,084.1	5,124.1	5,085.1	12.1	14.9	89.36	184.2	537.8	330.5	307.1	23.46	14.092	
5,200.0	5,184.1	5,224.1	5,185.1	12.3	15.1	89.36	184.2	537.8	330.5	306.7	23.86	13.852	
5,300.0	5,284.1	5,324.1	5,285.1	12.5	15.3	89.36	184.2	537.8	330.5	306.3	24.27	13.620	
5,400.0	5,384.1	5,424.1	5,385.1	12.7	15.4	89.36	184.2	537.8	330.5	305.9	24.68	13.394	
5,500.0	5,484.1	5,524.1	5,485.1	12.9	15.6	89.36	184.2	537.8	330.5	305.4	25.09	13.175	
5,600.0	5,584.1	5,624.1	5,585.1	13.1	15.8	89.36	184.2	537.8	330.5	305.0	25.50	12.962	
5,700.0	5,684.1	5,724.1	5,685.1	13.3	15.9	89.36	184.2	537.8	330.5	304.6	25.91	12.756	
5,800.0	5,784.1	5,824.1	5,785.1	13.6	16.1	89.36	184.2	537.8	330.5	304.2	26.33	12.555	
5,900.0	5,884.1	5,924.1	5,885.1	13.8	16.3	89.36	184.2	537.8	330.5	303.8	26.74	12.360	
6,000.0	5,984.1	6,024.1	5,985.1	14.0	16.4	89.36	184.2	537.8	330.5	303.4	27.16	12.171	
6,100.0	6,084.1	6,124.1	6,085.1	14.2	16.6	89.36	184.2	537.8	330.5	303.0	27.58	11.986	
6,200.0	6,184.1	6,224.1	6,185.1	14.4	16.8	89.36	184.2	537.8	330.5	302.5	27.99	11.807	
6,300.0	6,284.1	6,324.1	6,285.1	14.6	17.0	89.36	184.2	537.8	330.5	302.1	28.41	11.633	
6,400.0	6,384.1	6,424.1	6,385.1	14.8	17.2	89.36	184.2	537.8	330.5	301.7	28.83	11.463	
6,500.0	6,484.1	6,524.1	6,485.1	15.0	17.3	89.36	184.2	537.8	330.5	301.3	29.25	11.298	
6,600.0	6,584.1	6,624.1	6,585.1	15.2	17.5	89.36	184.2	537.8	330.5	300.9	29.68	11.138	
6,700.0	6,684.1	6,724.1	6,685.1	15.4	17.7	89.36	184.2	537.8	330.5	300.4	30.10	10.981	
6,744.3	6,728.5	6,768.4	6,729.5	15.5	17.8	-90.77	184.2	537.8	330.5	300.3	30.27	10.918	
6,800.0	6,784.1	6,824.0	6,785.1	15.6	17.9	-90.89	184.2	537.8	330.5	300.1	30.50	10.839	
6,900.0	6,882.5	6,922.4	6,883.5	15.8	18.1	-93.69	184.2	537.8	331.2	300.6	30.69	10.794	
7,000.0	6,975.8	7,018.8	6,979.9	15.8	18.2	-98.99	183.5	537.8	335.4	304.7	30.69	10.928	
7,100.0	7,060.7	7,126.9	7,086.4	15.9	18.3	-105.00	166.6	537.8	344.1	313.6	30.50	11.283	
7,200.0	7,134.0	7,246.3	7,197.2	16.0	18.4	-110.58	122.9	537.8	356.0	325.9	30.10	11.825	
7,300.0	7,193.0	7,379.0	7,305.2	16.1	18.5	-115.43	46.2	537.8	368.9	339.4	29.57	12.479	
7,400.0	7,235.5	7,525.9	7,397.7	16.3	18.6	-119.19	-67.2	537.8	380.4	351.3	29.13	13.060	
7,500.0	7,260.0	7,684.7	7,458.1	16.8	19.0	-121.44	-213.5	537.8	387.8	358.5	29.23	13.264	
7,600.0	7,266.0	7,834.3	7,472.8	17.5	19.7	-121.91	-361.9	537.8	389.4	359.1	30.21	12.887	
7,700.0	7,265.5	7,934.3	7,472.4	18.4	20.4	-121.93	-461.9	537.8	389.4	357.7	31.67	12.295	
7,800.0	7,265.0	8,034.3	7,472.1	19.5	21.3	-121.94	-561.9	537.8	389.5	356.1	33.40	11.662	
7,900.0	7,264.5	8,134.3	7,471.7	20.6	22.4	-121.96	-661.9	537.8	389.6	354.2	35.35	11.019	
8,000.0	7,264.1	8,234.3	7,471.4	21.9	23.5	-121.97	-761.9	537.8	389.6	352.1	37.50	10.389	
8,100.0	7,263.6	8,334.3	7,471.0	23.2	24.8	-121.99	-861.9	537.8	389.7	349.9	39.82	9.787	
8,200.0	7,263.1	8,434.3	7,470.7	24.7	26.1	-122.00	-961.9	537.8	389.7	347.5	42.27	9.221	
8,300.0	7,262.7	8,534.3	7,470.3	26.1	27.5	-122.02	-1,061.9	537.8	389.8	345.0	44.83	8.695	
8,400.0	7,262.2	8,634.3	7,470.0	27.7	29.0	-122.03	-1,161.9	537.8	389.9	342.4	47.49	8.209	
8,500.0	7,261.7	8,734.3	7,469.6	29.3	30.5	-122.05	-1,261.9	537.8	389.9	339.7	50.23	7.763	
8,600.0	7,261.3	8,834.3	7,469.3	30.9	32.1	-122.06	-1,361.9	537.8	390.0	337.0	53.04	7.354	
8,700.0	7,260.8	8,934.3	7,468.9	32.6	33.7	-122.08	-1,461.9	537.8	390.1	334.2	55.90	6.978	
8,800.0	7,260.3	9,034.3	7,468.6	34.2	35.3	-122.10	-1,561.9	537.8	390.1	331.3	58.81	6.634	
8,900.0	7,259.8	9,134.3	7,468.2	35.9	37.0	-122.11	-1,661.9	537.8	390.2	328.4	61.76	6.318	
9,000.0	7,259.4	9,234.3	7,467.9	37.7	38.6	-122.13	-1,761.9	537.8	390.3	325.5	64.75	6.027	
9,100.0	7,258.9	9,334.3	7,467.5	39.4	40.3	-122.14	-1,861.9	537.8	390.3	322.6	67.77	5.759	
9,200.0	7,258.4	9,434.3	7,467.2	41.2	42.1	-122.16	-1,961.9	537.8	390.4	319.6	70.82	5.513	
9,300.0	7,258.0	9,534.3	7,466.9	42.9	43.8	-122.17	-2,061.9	537.8	390.5	316.6	73.89	5.284	
9,400.0	7,257.5	9,634.3	7,466.5	44.7	45.5	-122.19	-2,161.9	537.8	390.5	313.5	76.98	5.073	
9,500.0	7,257.0	9,734.3	7,466.2	46.5	47.3	-122.20	-2,261.9	537.8	390.6	310.5	80.09	4.877	
9,600.0	7,256.5	9,834.3	7,465.8	48.3	49.1	-122.22	-2,361.9	537.8	390.7	307.4	83.21	4.695	
9,700.0	7,256.1	9,934.3	7,465.5	50.1	50.9	-122.23	-2,461.9	537.8	390.7	304.4	86.35	4.525	
9,800.0	7,255.6	10,034.3	7,465.1	51.9	52.7	-122.25	-2,561.9	537.8	390.8	301.3	89.50	4.366	
9,900.0	7,255.1	10,134.3	7,464.8	53.8	54.5	-122.26	-2,661.9	537.8	390.8	298.2	92.66	4.218	
10,000.0	7,254.7	10,234.3	7,464.4	55.6	56.3	-122.28	-2,761.9	537.8	390.9	295.1	95.83	4.079	
10,100.0	7,254.2	10,334.3	7,464.1	57.4	58.1	-122.29	-2,861.9	537.8	391.0	292.0	99.01	3.949	

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**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

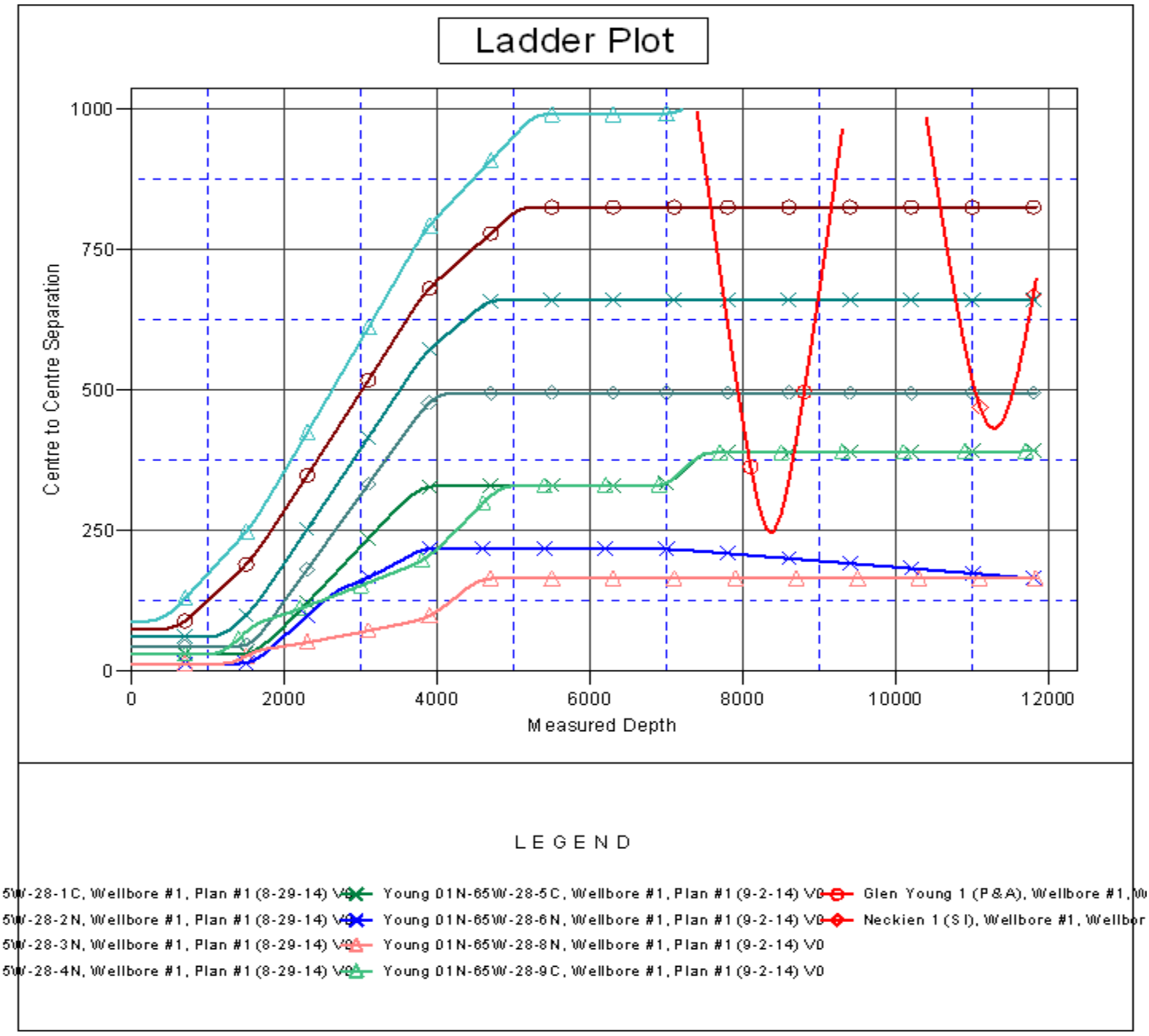
Survey Program: 0-MWD

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
10,200.0	7,253.7	10,434.3	7,463.7	59.3	59.9	-122.31	-2,961.8	537.8	391.0	288.8	102.20	3.826	
10,300.0	7,253.2	10,534.3	7,463.4	61.1	61.7	-122.32	-3,061.8	537.8	391.1	285.7	105.39	3.711	
10,400.0	7,252.8	10,634.3	7,463.0	63.0	63.6	-122.34	-3,161.8	537.8	391.2	282.6	108.59	3.602	
10,500.0	7,252.3	10,734.3	7,462.7	64.8	65.4	-122.35	-3,261.8	537.8	391.2	279.4	111.80	3.499	
10,600.0	7,251.8	10,834.3	7,462.3	66.7	67.3	-122.37	-3,361.8	537.8	391.3	276.3	115.01	3.402	
10,700.0	7,251.4	10,934.3	7,462.0	68.6	69.1	-122.38	-3,461.8	537.8	391.4	273.1	118.23	3.310	
10,800.0	7,250.9	11,034.3	7,461.6	70.4	70.9	-122.40	-3,561.8	537.8	391.4	270.0	121.45	3.223	
10,900.0	7,250.4	11,134.3	7,461.3	72.3	72.8	-122.41	-3,661.8	537.8	391.5	266.8	124.68	3.140	
11,000.0	7,249.9	11,234.3	7,460.9	74.2	74.7	-122.43	-3,761.8	537.8	391.6	263.7	127.91	3.061	
11,100.0	7,249.5	11,334.3	7,460.6	76.0	76.5	-122.44	-3,861.8	537.8	391.6	260.5	131.14	2.986	
11,200.0	7,249.0	11,434.3	7,460.2	77.9	78.4	-122.46	-3,961.8	537.8	391.7	257.3	134.37	2.915	
11,300.0	7,248.5	11,534.3	7,459.9	79.8	80.2	-122.47	-4,061.8	537.8	391.8	254.2	137.61	2.847	
11,400.0	7,248.1	11,634.3	7,459.5	81.7	82.1	-122.49	-4,161.8	537.8	391.8	251.0	140.85	2.782	
11,500.0	7,247.6	11,734.3	7,459.2	83.5	84.0	-122.50	-4,261.8	537.8	391.9	247.8	144.09	2.720	
11,600.0	7,247.1	11,834.3	7,458.8	85.4	85.8	-122.52	-4,361.8	537.8	392.0	244.6	147.33	2.660	
11,700.0	7,246.6	11,934.3	7,458.5	87.3	87.7	-122.53	-4,461.8	537.8	392.0	241.4	150.58	2.603	
11,800.0	7,246.2	12,034.3	7,458.1	89.2	89.6	-122.55	-4,561.8	537.8	392.1	238.3	153.83	2.549	
11,836.2	7,246.0	12,069.8	7,458.0	89.7	90.3	-122.55	-4,597.3	537.8	392.1	237.2	154.87	2.532	SF

Company:	Verdad Oil & Gas Corporation	**Local Co-ordinate Reference:**	Well Young 01N-65W-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5086.0ft (Original Well Elev) Coordinates are relative to: Young 01N-65W-28-7N
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-28-7N
Project:	SEC.28-T1N-R65W	**TVD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	**MD Reference:**	WELL @ 5086.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Young 01N-65W-28-7N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (9-2-14)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5086.0ft (Original Well Elev) Coordinates are relative to: Young 01N-65W-28-7N
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°