

Verdad Oil & Gas Corporation

Well Name: **Young 01N-65W-28-2N**

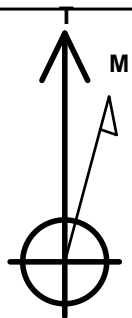
Surface Location: Young 01N-65W-28 Pad Sec.28-T1N-R65W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 5070.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1254520.37	3233973.66	40.029020	-104.664470	
Original Well Elev WELL @ 5083.0ft (Original Well Elev)						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 230'FNL & 1365'FEL	1.0	0.0	0.0	Point
BHL 460'FSL & 1885'FEL	7243.0	-4604.6	-543.4	Point



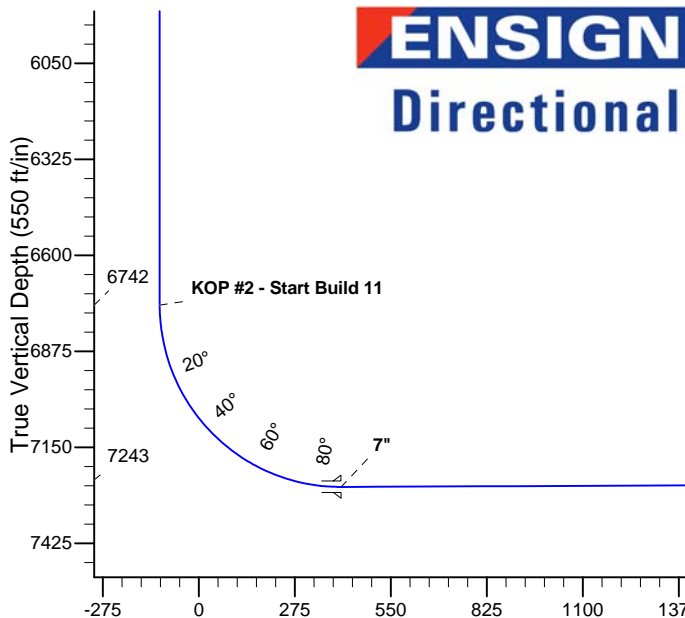
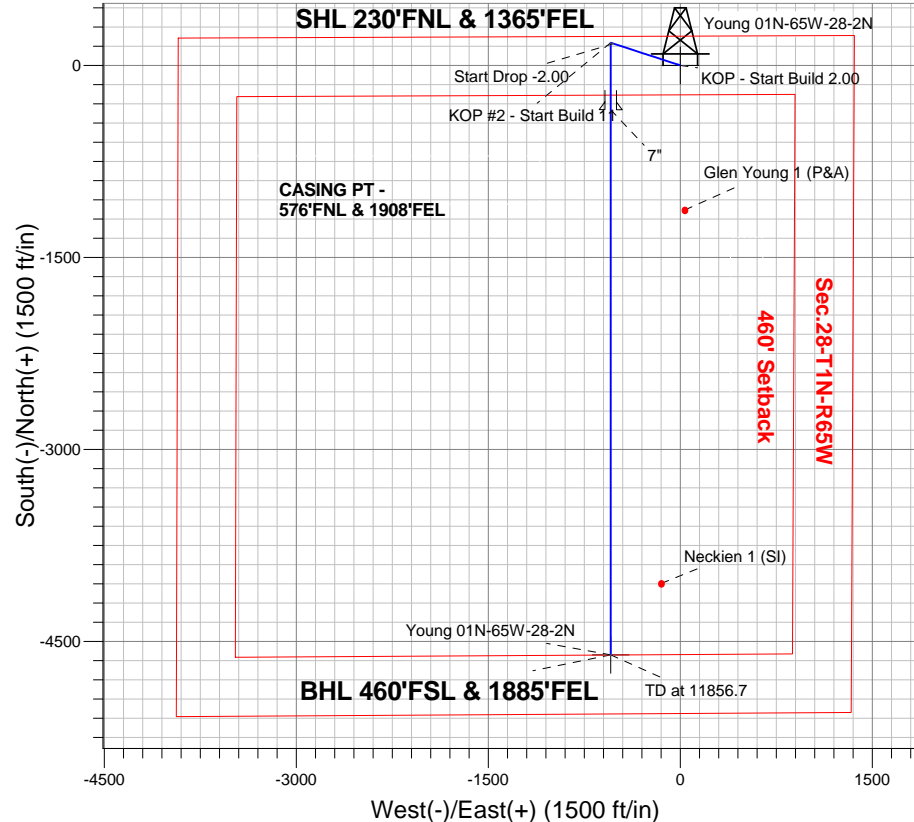
Young 01N-65W-28 Pad Sec.28-T1N-R65W
 Young 01N-65W-28-2N
 Plan #1 (8-29-14)

Azimuths to True North
 Magnetic North: 8.35°

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

ANNOTATIONS

TVD	MD	Annotation
400.0	400.0	KOP - Start Build 2.00
4833.7	4868.3	Start Drop -2.00
6742.2	6777.9	KOP #2 - Start Build 11
7243.0	11856.7	TD at 11856.7



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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	767.3	7.35	288.03	766.3	7.3	-22.4	2.00	288.03	-4.6	
4	4868.3	7.35	288.03	4833.7	169.6	-521.0	0.00	0.00	-107.4	
5	5235.7	0.00	0.00	5200.0	176.9	-543.4	2.00	180.00	-112.0	
6	6777.9	0.00	0.00	6742.2	176.9	-543.4	0.00	0.00	-112.0	
7	7598.5	90.27	180.00	7263.1	-346.4	-543.4	11.00	180.00	407.7	
8	11856.7	90.27	180.00	7243.0	-4604.6	-543.4	0.00	0.00	4636.5	BHL 460'FSL & 1885'FEL

BHL 460'FSL & 1885'FEL

TD at 11856.7

Vertical Section at 186.73° (550 ft/in)



Verdad Oil & Gas Corporation

SEC.28-T1N-R65W

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

Young 01N-65W-28-2N

Wellbore #1

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

Standard Planning Report

11 September, 2014

Database:	Landmark	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	North Reference:	True
Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-29-14)		

Project	SEC.28-T1N-R65W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Young 01N-65W-28 Pad Sec.28-T1N-R65W				
Site Position:		Northing:	1,254,520.25 ft	Latitude:	40.029020
From:	Lat/Long	Easting:	3,233,959.66 ft	Longitude:	-104.664520
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.54 °

Well	Young 01N-65W-28-2N					
Well Position	+N/-S	0.0 ft	Northing:	1,254,520.37 ft	Latitude:	40.029020
	+E/-W	14.0 ft	Easting:	3,233,973.66 ft	Longitude:	-104.664470
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,070.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/29/2014	8.35	66.66	52,607

Design	Plan #1 (8-29-14)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	186.73

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
767.3	7.35	288.03	766.3	7.3	-22.4	2.00	2.00	0.00	288.03	
4,868.3	7.35	288.03	4,833.7	169.6	-521.0	0.00	0.00	0.00	0.00	
5,235.7	0.00	0.00	5,200.0	176.9	-543.4	2.00	-2.00	0.00	180.00	
6,777.9	0.00	0.00	6,742.2	176.9	-543.4	0.00	0.00	0.00	0.00	
7,598.5	90.27	180.00	7,263.1	-346.4	-543.4	11.00	11.00	0.00	180.00	
11,856.7	90.27	180.00	7,243.0	-4,604.6	-543.4	0.00	0.00	0.00	0.00	BHL 460'FSL & 18E

Database:	Landmark	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	North Reference:	True
Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-29-14)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
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
KOP - Start Build 2.00									
500.0	2.00	288.03	500.0	0.5	-1.7	-0.3	2.00	2.00	0.00
600.0	4.00	288.03	599.8	2.2	-6.6	-1.4	2.00	2.00	0.00
700.0	6.00	288.03	699.5	4.9	-14.9	-3.1	2.00	2.00	0.00
767.3	7.35	288.03	766.3	7.3	-22.4	-4.6	2.00	2.00	0.00
800.0	7.35	288.03	798.7	8.6	-26.3	-5.4	0.00	0.00	0.00
900.0	7.35	288.03	897.9	12.5	-38.5	-7.9	0.00	0.00	0.00
1,000.0	7.35	288.03	997.1	16.5	-50.7	-10.4	0.00	0.00	0.00
1,100.0	7.35	288.03	1,096.3	20.4	-62.8	-12.9	0.00	0.00	0.00
1,200.0	7.35	288.03	1,195.4	24.4	-75.0	-15.5	0.00	0.00	0.00
1,300.0	7.35	288.03	1,294.6	28.4	-87.1	-18.0	0.00	0.00	0.00
1,400.0	7.35	288.03	1,393.8	32.3	-99.3	-20.5	0.00	0.00	0.00
1,500.0	7.35	288.03	1,493.0	36.3	-111.5	-23.0	0.00	0.00	0.00
1,600.0	7.35	288.03	1,592.2	40.2	-123.6	-25.5	0.00	0.00	0.00
1,700.0	7.35	288.03	1,691.3	44.2	-135.8	-28.0	0.00	0.00	0.00
1,800.0	7.35	288.03	1,790.5	48.2	-147.9	-30.5	0.00	0.00	0.00
1,900.0	7.35	288.03	1,889.7	52.1	-160.1	-33.0	0.00	0.00	0.00
2,000.0	7.35	288.03	1,988.9	56.1	-172.2	-35.5	0.00	0.00	0.00
2,100.0	7.35	288.03	2,088.1	60.0	-184.4	-38.0	0.00	0.00	0.00
2,200.0	7.35	288.03	2,187.2	64.0	-196.6	-40.5	0.00	0.00	0.00
2,300.0	7.35	288.03	2,286.4	68.0	-208.7	-43.0	0.00	0.00	0.00
2,400.0	7.35	288.03	2,385.6	71.9	-220.9	-45.5	0.00	0.00	0.00
2,500.0	7.35	288.03	2,484.8	75.9	-233.0	-48.0	0.00	0.00	0.00
2,600.0	7.35	288.03	2,583.9	79.8	-245.2	-50.5	0.00	0.00	0.00
2,700.0	7.35	288.03	2,683.1	83.8	-257.4	-53.0	0.00	0.00	0.00
2,800.0	7.35	288.03	2,782.3	87.7	-269.5	-55.6	0.00	0.00	0.00
2,900.0	7.35	288.03	2,881.5	91.7	-281.7	-58.1	0.00	0.00	0.00
3,000.0	7.35	288.03	2,980.7	95.7	-293.8	-60.6	0.00	0.00	0.00
3,100.0	7.35	288.03	3,079.8	99.6	-306.0	-63.1	0.00	0.00	0.00
3,200.0	7.35	288.03	3,179.0	103.6	-318.2	-65.6	0.00	0.00	0.00
3,300.0	7.35	288.03	3,278.2	107.5	-330.3	-68.1	0.00	0.00	0.00
3,400.0	7.35	288.03	3,377.4	111.5	-342.5	-70.6	0.00	0.00	0.00
3,500.0	7.35	288.03	3,476.6	115.5	-354.6	-73.1	0.00	0.00	0.00
3,600.0	7.35	288.03	3,575.7	119.4	-366.8	-75.6	0.00	0.00	0.00
3,700.0	7.35	288.03	3,674.9	123.4	-379.0	-78.1	0.00	0.00	0.00
3,800.0	7.35	288.03	3,774.1	127.3	-391.1	-80.6	0.00	0.00	0.00
3,900.0	7.35	288.03	3,873.3	131.3	-403.3	-83.1	0.00	0.00	0.00
4,000.0	7.35	288.03	3,972.5	135.2	-415.4	-85.6	0.00	0.00	0.00
4,100.0	7.35	288.03	4,071.6	139.2	-427.6	-88.1	0.00	0.00	0.00
4,200.0	7.35	288.03	4,170.8	143.2	-439.8	-90.6	0.00	0.00	0.00
4,300.0	7.35	288.03	4,270.0	147.1	-451.9	-93.1	0.00	0.00	0.00
4,400.0	7.35	288.03	4,369.2	151.1	-464.1	-95.7	0.00	0.00	0.00
4,500.0	7.35	288.03	4,468.3	155.0	-476.2	-98.2	0.00	0.00	0.00
4,600.0	7.35	288.03	4,567.5	159.0	-488.4	-100.7	0.00	0.00	0.00
4,700.0	7.35	288.03	4,666.7	163.0	-500.6	-103.2	0.00	0.00	0.00
4,800.0	7.35	288.03	4,765.9	166.9	-512.7	-105.7	0.00	0.00	0.00
4,868.3	7.35	288.03	4,833.6	169.6	-521.0	-107.4	0.00	0.00	0.00
Start Drop -2.00									
4,900.0	6.71	288.03	4,865.1	170.8	-524.7	-108.1	2.00	-2.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
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Project:	SEC.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	North Reference:	True
Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-29-14)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,000.0	4.71	288.03	4,964.6	173.9	-534.2	-110.1	2.00	-2.00	0.00	
5,100.0	2.71	288.03	5,064.4	175.9	-540.3	-111.4	2.00	-2.00	0.00	
5,200.0	0.71	288.03	5,164.3	176.8	-543.2	-112.0	2.00	-2.00	0.00	
5,235.7	0.00	0.00	5,200.0	176.9	-543.4	-112.0	2.00	-2.00	0.00	
5,300.0	0.00	0.00	5,264.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,364.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,464.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,564.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,664.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,764.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,864.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,964.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,064.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,164.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,264.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,364.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,464.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,564.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,664.3	176.9	-543.4	-112.0	0.00	0.00	0.00	
6,777.9	0.00	0.00	6,742.2	176.9	-543.4	-112.0	0.00	0.00	0.00	
KOP #2 - Start Build 11										
6,800.0	2.43	180.00	6,764.3	176.4	-543.4	-111.5	11.01	11.01	0.00	
6,900.0	13.43	180.00	6,863.2	162.6	-543.4	-97.8	11.00	11.00	0.00	
7,000.0	24.43	180.00	6,957.6	130.3	-543.4	-65.7	11.00	11.00	0.00	
7,100.0	35.43	180.00	7,044.2	80.4	-543.4	-16.2	11.00	11.00	0.00	
7,200.0	46.43	180.00	7,119.6	15.0	-543.4	48.8	11.00	11.00	0.00	
7,300.0	57.43	180.00	7,181.2	-63.6	-543.4	126.8	11.00	11.00	0.00	
7,400.0	68.43	180.00	7,226.6	-152.5	-543.4	215.1	11.00	11.00	0.00	
7,500.0	79.43	180.00	7,254.2	-248.5	-543.4	310.4	11.00	11.00	0.00	
7,598.5	90.27	180.00	7,263.1	-346.4	-543.4	407.7	11.00	11.00	0.00	
7"										
7,600.0	90.27	180.00	7,263.1	-347.9	-543.4	409.2	0.14	0.14	0.00	
7,700.0	90.27	180.00	7,262.6	-447.9	-543.4	508.5	0.00	0.00	0.00	
7,800.0	90.27	180.00	7,262.1	-547.9	-543.4	607.8	0.00	0.00	0.00	
7,900.0	90.27	180.00	7,261.6	-647.9	-543.4	707.1	0.00	0.00	0.00	
8,000.0	90.27	180.00	7,261.2	-747.9	-543.4	806.4	0.00	0.00	0.00	
8,100.0	90.27	180.00	7,260.7	-847.9	-543.4	905.7	0.00	0.00	0.00	
8,200.0	90.27	180.00	7,260.2	-947.9	-543.4	1,005.1	0.00	0.00	0.00	
8,300.0	90.27	180.00	7,259.8	-1,047.9	-543.4	1,104.4	0.00	0.00	0.00	
8,400.0	90.27	180.00	7,259.3	-1,147.9	-543.4	1,203.7	0.00	0.00	0.00	
8,500.0	90.27	180.00	7,258.8	-1,247.9	-543.4	1,303.0	0.00	0.00	0.00	
8,600.0	90.27	180.00	7,258.3	-1,347.9	-543.4	1,402.3	0.00	0.00	0.00	
8,700.0	90.27	180.00	7,257.9	-1,447.9	-543.4	1,501.6	0.00	0.00	0.00	
8,800.0	90.27	180.00	7,257.4	-1,547.9	-543.4	1,600.9	0.00	0.00	0.00	
8,900.0	90.27	180.00	7,256.9	-1,647.9	-543.4	1,700.2	0.00	0.00	0.00	
9,000.0	90.27	180.00	7,256.5	-1,747.9	-543.4	1,799.5	0.00	0.00	0.00	
9,100.0	90.27	180.00	7,256.0	-1,847.9	-543.4	1,898.8	0.00	0.00	0.00	
9,200.0	90.27	180.00	7,255.5	-1,947.9	-543.4	1,998.1	0.00	0.00	0.00	
9,300.0	90.27	180.00	7,255.0	-2,047.9	-543.4	2,097.5	0.00	0.00	0.00	
9,400.0	90.27	180.00	7,254.6	-2,147.9	-543.4	2,196.8	0.00	0.00	0.00	
9,500.0	90.27	180.00	7,254.1	-2,247.9	-543.4	2,296.1	0.00	0.00	0.00	
9,600.0	90.27	180.00	7,253.6	-2,347.9	-543.4	2,395.4	0.00	0.00	0.00	
9,700.0	90.27	180.00	7,253.2	-2,447.9	-543.4	2,494.7	0.00	0.00	0.00	
9,800.0	90.27	180.00	7,252.7	-2,547.9	-543.4	2,594.0	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	North Reference:	True
Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (8-29-14)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,900.0	90.27	180.00	7,252.2	-2,647.9	-543.4	2,693.3	0.00	0.00	0.00	
10,000.0	90.27	180.00	7,251.7	-2,747.9	-543.4	2,792.6	0.00	0.00	0.00	
10,100.0	90.27	180.00	7,251.3	-2,847.9	-543.4	2,891.9	0.00	0.00	0.00	
10,200.0	90.27	180.00	7,250.8	-2,947.9	-543.4	2,991.2	0.00	0.00	0.00	
10,300.0	90.27	180.00	7,250.3	-3,047.9	-543.4	3,090.6	0.00	0.00	0.00	
10,400.0	90.27	180.00	7,249.9	-3,147.9	-543.4	3,189.9	0.00	0.00	0.00	
10,500.0	90.27	180.00	7,249.4	-3,247.9	-543.4	3,289.2	0.00	0.00	0.00	
10,600.0	90.27	180.00	7,248.9	-3,347.9	-543.4	3,388.5	0.00	0.00	0.00	
10,700.0	90.27	180.00	7,248.5	-3,447.9	-543.4	3,487.8	0.00	0.00	0.00	
10,800.0	90.27	180.00	7,248.0	-3,547.9	-543.4	3,587.1	0.00	0.00	0.00	
10,900.0	90.27	180.00	7,247.5	-3,647.9	-543.4	3,686.4	0.00	0.00	0.00	
11,000.0	90.27	180.00	7,247.0	-3,747.9	-543.4	3,785.7	0.00	0.00	0.00	
11,100.0	90.27	180.00	7,246.6	-3,847.9	-543.4	3,885.0	0.00	0.00	0.00	
11,200.0	90.27	180.00	7,246.1	-3,947.9	-543.4	3,984.3	0.00	0.00	0.00	
11,300.0	90.27	180.00	7,245.6	-4,047.9	-543.4	4,083.7	0.00	0.00	0.00	
11,400.0	90.27	180.00	7,245.2	-4,147.9	-543.4	4,183.0	0.00	0.00	0.00	
11,500.0	90.27	180.00	7,244.7	-4,247.9	-543.4	4,282.3	0.00	0.00	0.00	
11,600.0	90.27	180.00	7,244.2	-4,347.9	-543.4	4,381.6	0.00	0.00	0.00	
11,700.0	90.27	180.00	7,243.7	-4,447.9	-543.4	4,480.9	0.00	0.00	0.00	
11,800.0	90.27	180.00	7,243.3	-4,547.9	-543.4	4,580.2	0.00	0.00	0.00	
11,856.7	90.27	180.00	7,243.0	-4,604.6	-543.4	4,636.5	0.00	0.00	0.00	
TD at 11856.7										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
BHL 460'FSL & 1885' - hit/miss target - Shape - Point	0.00	0.00	7,243.0	-4,604.6	-543.4	1,249,911.03	3,233,473.70	40.016380	-104.666410	
SHL 230'FNL & 1365' - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,254,520.38	3,233,973.66	40.029020	-104.664470	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
7,598.5	7,263.1	7"		7	7-1/2	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
400.0	400.0	0.0	0.0	KOP - Start Build 2.00	
4,868.3	4,833.7	7.3	-22.4	Start Drop -2.00	
6,777.9	6,742.2	169.6	-521.0	KOP #2 - Start Build 11	
11,856.7	7,243.0	176.9	-543.4	TD at 11856.7	



Directional

Verdad Oil & Gas Corporation

SEC.28-T1N-R65W

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

Young 01N-65W-28-2N

Wellbore #1

Plan #1 (8-29-14)

Anticollision Report

11 September, 2014

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (8-29-14)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 9/11/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,856.7	Plan #1 (8-29-14) (Wellbore #1)	MWD	MWD - Standard

Site Name	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	8,381.4	7,236.4	579.8	407.8	3.371	CC, ES
Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1	8,400.0	7,236.3	580.1	407.8	3.367	SF
Neckien 1 (SI) - Wellbore #1 - Wellbore #1	11,299.4	7,216.6	394.9	171.1	1.764	CC
Neckien 1 (SI) - Wellbore #1 - Wellbore #1	11,300.0	7,216.6	394.9	171.0	1.764	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	200.0	14.0	13.3	20.766	CC, ES
Young 01N-65W-28-1C - Wellbore #1 - Plan #1 (8-29-14)	11,856.7	12,078.8	268.0	146.1	2.199	SF
Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14)	400.0	401.0	14.0	12.4	8.887	CC
Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14)	11,856.7	11,847.9	165.3	-14.7	0.918	Level 1, ES, SF
Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14)	400.0	401.0	30.8	29.2	19.551	CC, ES
Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14)	11,856.7	11,839.8	330.5	150.6	1.837	SF
Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)	400.0	402.0	44.8	43.2	28.397	CC, ES
Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)	11,856.7	12,039.5	538.8	370.1	3.194	SF
Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14)	400.0	402.0	61.6	60.0	39.047	CC, ES
Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14)	11,856.7	11,829.9	661.0	480.9	3.671	SF
Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14)	400.0	403.0	75.6	74.0	47.853	CC, ES
Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14)	11,856.7	11,836.2	826.3	646.6	4.598	SF
Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14)	400.0	403.0	89.6	88.0	56.714	CC, ES
Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14)	11,856.7	11,849.6	991.6	811.9	5.518	SF
Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14)	400.0	404.0	106.4	104.8	67.252	CC, ES
Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14)	1,100.0	1,095.2	171.9	167.3	36.599	SF

Offset Design													Offset Site Error:	0.0ft
Existing Wells Sec.28-T1N-R65W - Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1													Offset Well Error:	0.0ft
Survey Program: 8100-UNKNOWN														
Reference	Vertical 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	
7,600.0	7,263.1	7,240.1	7,240.1	19.6	144.8	-90.36	-1,129.3	36.4	973.0	810.7	162.33	5.994		
7,700.0	7,262.6	7,239.6	7,239.6	20.3	144.8	-90.32	-1,129.3	36.4	894.7	731.5	163.18	5.483		
7,800.0	7,262.1	7,239.1	7,239.1	21.2	144.8	-90.27	-1,129.3	36.4	821.1	656.9	164.18	5.001		
7,900.0	7,261.6	7,238.6	7,238.6	22.2	144.8	-90.22	-1,129.3	36.4	753.6	588.3	165.30	4.559		
8,000.0	7,261.2	7,238.2	7,238.2	23.3	144.8	-90.18	-1,129.3	36.4	694.0	527.4	166.54	4.167		
8,100.0	7,260.7	7,237.7	7,237.7	24.6	144.8	-90.13	-1,129.3	36.4	644.5	476.6	167.87	3.839		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Existing Wells Sec.28-T1N-R65W - Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 ft
Survey Program: 8100-UNKNOWN														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8,200.0	7,260.2	7,237.2	7,237.2	25.9	144.7	-90.08	-1,129.3	36.4	607.5	438.2	169.27	3.589			
8,300.0	7,259.8	7,236.8	7,236.8	27.3	144.7	-90.04	-1,129.3	36.4	585.5	414.7	170.74	3.429			
8,381.4	7,259.4	7,236.4	7,236.4	28.5	144.7	-90.00	-1,129.3	36.4	579.8	407.8	171.98	3.371	CC, ES		
8,400.0	7,259.3	7,236.3	7,236.3	28.8	144.7	-89.99	-1,129.3	36.4	580.1	407.8	172.26	3.367	SF		
8,500.0	7,258.8	7,235.8	7,235.8	30.3	144.7	-89.94	-1,129.3	36.4	591.8	418.0	173.83	3.404			
8,600.0	7,258.3	7,235.3	7,235.3	31.9	144.7	-89.90	-1,129.3	36.4	619.6	444.2	175.44	3.532			
8,700.0	7,257.9	7,234.9	7,234.9	33.5	144.7	-89.85	-1,129.3	36.4	661.6	484.5	177.08	3.736			
8,800.0	7,257.4	7,234.4	7,234.4	35.1	144.7	-89.81	-1,129.3	36.4	715.1	536.4	178.74	4.001			
8,900.0	7,256.9	7,233.9	7,233.9	36.7	144.7	-89.76	-1,129.3	36.4	777.9	597.5	180.43	4.311			
9,000.0	7,256.5	7,233.5	7,233.5	38.4	144.7	-89.71	-1,129.3	36.4	847.8	665.7	182.14	4.655			
9,100.0	7,256.0	7,233.0	7,233.0	40.1	144.7	-89.67	-1,129.3	36.4	923.3	739.5	183.87	5.022			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Existing Wells Sec.28-T1N-R65W - Neckien 1 (SI) - Wellbore #1 - Wellbore #1													Offset Well Error:	0.0 ft
Survey Program: 8061-UNKNOWN														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,400.0	7,249.9	7,220.9	7,220.9	63.4	144.4	-90.61	-4,047.2	-148.4	982.3	775.1	207.20	4.741		
10,500.0	7,249.4	7,220.4	7,220.4	65.2	144.4	-90.55	-4,047.2	-148.4	891.6	682.6	209.05	4.265		
10,600.0	7,248.9	7,219.9	7,219.9	67.0	144.4	-90.48	-4,047.2	-148.4	803.2	592.3	210.90	3.808		
10,700.0	7,248.5	7,219.5	7,219.5	68.9	144.4	-90.41	-4,047.2	-148.4	717.8	505.0	212.75	3.374		
10,800.0	7,248.0	7,219.0	7,219.0	70.7	144.4	-90.34	-4,047.2	-148.4	636.7	422.1	214.60	2.967		
10,900.0	7,247.5	7,218.5	7,218.5	72.6	144.4	-90.27	-4,047.2	-148.4	561.7	345.2	216.46	2.595		
11,000.0	7,247.0	7,218.0	7,218.0	74.4	144.4	-90.20	-4,047.2	-148.4	495.6	277.3	218.32	2.270		
11,100.0	7,246.6	7,217.6	7,217.6	76.3	144.4	-90.14	-4,047.2	-148.4	442.4	222.2	220.18	2.009		
11,200.0	7,246.1	7,217.1	7,217.1	78.2	144.3	-90.07	-4,047.2	-148.4	407.3	185.2	222.04	1.834		
11,299.4	7,245.6	7,216.6	7,216.6	80.0	144.3	-90.00	-4,047.2	-148.4	394.9	171.1	223.89	1.764 CC		
11,300.0	7,245.6	7,216.6	7,216.6	80.0	144.3	-90.00	-4,047.2	-148.4	394.9	171.0	223.90	1.764 ES, SF		
11,400.0	7,245.2	7,216.2	7,216.2	81.9	144.3	-89.93	-4,047.2	-148.4	407.6	181.8	225.77	1.805		
11,500.0	7,244.7	7,215.7	7,215.7	83.8	144.3	-89.86	-4,047.2	-148.4	443.0	215.3	227.63	1.946		
11,600.0	7,244.2	7,215.2	7,215.2	85.6	144.3	-89.79	-4,047.2	-148.4	496.3	266.8	229.50	2.163		
11,700.0	7,243.7	7,214.7	7,214.7	87.5	144.3	-89.73	-4,047.2	-148.4	562.6	331.2	231.37	2.431		
11,800.0	7,243.3	7,214.3	7,214.3	89.4	144.3	-89.66	-4,047.2	-148.4	637.6	404.4	233.24	2.734		
11,856.7	7,243.0	7,214.0	7,214.0	90.4	144.3	-89.62	-4,047.2	-148.4	683.1	448.8	234.30	2.915		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
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	CC, ES		
300.0	300.0	299.5	299.5	0.6	0.6	-88.46	0.4	-15.7	15.7	14.6	1.12	14.059			
400.0	400.0	398.7	398.6	0.8	0.8	-85.31	1.7	-20.7	20.8	19.2	1.57	13.280			
500.0	500.0	497.7	497.1	1.0	1.0	-11.18	3.8	-29.0	27.7	25.7	2.00	13.806			
600.0	599.8	596.4	595.1	1.2	1.3	-10.24	6.8	-40.5	34.5	32.1	2.44	14.140			
700.0	699.5	695.8	693.5	1.5	1.6	-10.06	10.4	-54.7	40.6	37.7	2.89	14.041			
800.0	798.7	795.8	792.3	1.7	2.0	-10.65	14.0	-69.1	43.6	40.2	3.35	13.010			
900.0	897.9	895.7	891.2	2.0	2.3	-11.37	17.7	-83.5	45.8	41.9	3.82	11.978			
1,000.0	997.1	995.7	990.0	2.3	2.7	-12.02	21.4	-97.9	48.0	43.7	4.30	11.158			
1,100.0	1,096.3	1,095.7	1,088.9	2.6	3.0	-12.62	25.0	-112.2	50.2	45.4	4.78	10.494			
1,200.0	1,195.4	1,195.7	1,187.8	2.9	3.4	-13.16	28.7	-126.6	52.4	47.1	5.27	9.945			
1,300.0	1,294.6	1,295.6	1,286.6	3.3	3.7	-13.66	32.3	-141.0	54.6	48.9	5.76	9.486			
1,400.0	1,393.8	1,395.6	1,385.5	3.6	4.1	-14.12	36.0	-155.4	56.9	50.6	6.25	9.094			
1,500.0	1,493.0	1,495.6	1,484.4	3.9	4.4	-14.55	39.7	-169.8	59.1	52.3	6.75	8.758			
1,600.0	1,592.2	1,595.5	1,583.2	4.2	4.8	-14.94	43.3	-184.2	61.3	54.1	7.24	8.465			
1,700.0	1,691.3	1,695.5	1,682.1	4.5	5.2	-15.31	47.0	-198.6	63.6	55.8	7.74	8.209			
1,800.0	1,790.5	1,795.5	1,781.0	4.9	5.5	-15.65	50.7	-213.0	65.8	57.6	8.24	7.983			
1,900.0	1,889.7	1,895.5	1,879.8	5.2	5.9	-15.97	54.3	-227.4	68.0	59.3	8.74	7.781			
2,000.0	1,988.9	1,995.4	1,978.7	5.5	6.2	-16.27	58.0	-241.8	70.3	61.0	9.25	7.601			
2,100.0	2,088.1	2,095.4	2,077.5	5.8	6.6	-16.55	61.7	-256.2	72.5	62.8	9.75	7.439			
2,200.0	2,187.2	2,195.4	2,176.4	6.2	6.9	-16.82	65.3	-270.6	74.8	64.5	10.26	7.292			
2,300.0	2,286.4	2,295.4	2,275.3	6.5	7.3	-17.07	69.0	-284.9	77.0	66.3	10.76	7.158			
2,400.0	2,385.6	2,395.3	2,374.1	6.8	7.7	-17.30	72.7	-299.3	79.3	68.0	11.27	7.036			
2,500.0	2,484.8	2,495.3	2,473.0	7.2	8.0	-17.52	76.3	-313.7	81.5	69.8	11.78	6.924			
2,600.0	2,583.9	2,595.3	2,571.9	7.5	8.4	-17.73	80.0	-328.1	83.8	71.5	12.28	6.821			
2,700.0	2,683.1	2,695.3	2,670.7	7.8	8.7	-17.93	83.7	-342.5	86.0	73.2	12.79	6.726			
2,800.0	2,782.3	2,795.2	2,769.6	8.1	9.1	-18.12	87.3	-356.9	88.3	75.0	13.30	6.638			
2,900.0	2,881.5	2,895.2	2,868.5	8.5	9.5	-18.30	91.0	-371.3	90.5	76.7	13.81	6.556			
3,000.0	2,980.7	2,995.2	2,967.3	8.8	9.8	-18.47	94.6	-385.7	92.8	78.5	14.32	6.480			
3,100.0	3,079.8	3,095.2	3,066.2	9.1	10.2	-18.63	98.3	-400.1	95.1	80.2	14.83	6.409			
3,200.0	3,179.0	3,195.1	3,165.1	9.5	10.5	-18.79	102.0	-414.5	97.3	82.0	15.34	6.343			
3,300.0	3,278.2	3,295.1	3,263.9	9.8	10.9	-18.93	105.6	-428.9	99.6	83.7	15.85	6.281			
3,400.0	3,377.4	3,395.1	3,362.8	10.1	11.3	-19.07	109.3	-443.2	101.8	85.5	16.37	6.222			
3,500.0	3,476.6	3,495.1	3,461.7	10.4	11.6	-19.21	113.0	-457.6	104.1	87.2	16.88	6.167			
3,600.0	3,575.7	3,595.0	3,560.5	10.8	12.0	-19.34	116.6	-472.0	106.4	89.0	17.39	6.115			
3,700.0	3,674.9	3,695.0	3,659.4	11.1	12.4	-19.46	120.3	-486.4	108.6	90.7	17.90	6.066			
3,800.0	3,774.1	3,795.0	3,758.3	11.4	12.7	-19.58	124.0	-500.8	110.9	92.5	18.42	6.020			
3,900.0	3,873.3	3,895.0	3,857.1	11.8	13.1	-19.70	127.6	-515.2	113.1	94.2	18.93	5.976			
4,000.0	3,972.5	3,994.9	3,956.0	12.1	13.4	-19.81	131.3	-529.6	115.4	96.0	19.45	5.935			
4,100.0	4,071.6	4,094.9	4,054.8	12.4	13.8	-19.91	135.0	-544.0	117.7	97.7	19.96	5.895			
4,200.0	4,170.8	4,194.9	4,153.7	12.7	14.2	-20.01	138.6	-558.4	119.9	99.5	20.47	5.858			
4,300.0	4,270.0	4,294.9	4,252.6	13.1	14.5	-20.11	142.3	-572.8	122.2	101.2	20.99	5.822			
4,400.0	4,369.2	4,394.8	4,351.4	13.4	14.9	-20.20	146.0	-587.2	124.5	103.0	21.50	5.788			
4,500.0	4,468.3	4,494.8	4,450.3	13.7	15.2	-20.29	149.6	-601.5	126.7	104.7	22.02	5.755			
4,600.0	4,567.5	4,594.8	4,549.2	14.1	15.6	-20.38	153.3	-615.9	129.0	106.4	22.53	5.724			
4,700.0	4,666.7	4,694.7	4,648.0	14.4	16.0	-20.47	157.0	-630.3	131.2	108.2	23.05	5.694			
4,800.0	4,765.9	4,794.7	4,746.9	14.7	16.3	-20.55	160.6	-644.7	133.5	109.9	23.56	5.666			
4,900.0	4,865.1	4,894.7	4,845.8	15.0	16.7	-20.61	164.3	-659.1	135.9	111.9	24.07	5.648			
5,000.0	4,964.6	4,994.6	4,944.5	15.3	17.0	-20.31	167.9	-673.5	140.9	116.4	24.48	5.756			
5,100.0	5,064.4	5,097.8	5,046.8	15.4	17.4	-19.66	171.5	-687.5	148.2	123.4	24.80	5.976			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,164.3	5,202.9	5,151.3	15.6	17.6	-18.98	174.2	-698.2	155.6	130.5	25.06	6.208			
5,300.0	5,264.3	5,308.4	5,256.5	15.7	17.8	-90.32	176.0	-705.2	162.0	136.6	25.34	6.391			
5,400.0	5,364.3	5,414.2	5,362.2	15.9	18.0	-90.02	176.8	-708.4	165.0	139.3	25.69	6.425			
5,500.0	5,464.3	5,516.3	5,464.3	16.1	18.1	-90.00	176.9	-708.6	165.3	139.2	26.06	6.342			
5,600.0	5,564.3	5,616.3	5,564.3	16.2	18.2	-90.00	176.9	-708.6	165.3	138.8	26.43	6.252			
5,700.0	5,664.3	5,716.3	5,664.3	16.4	18.4	-90.00	176.9	-708.6	165.3	138.4	26.81	6.163			
5,800.0	5,764.3	5,816.3	5,764.3	16.5	18.5	-90.00	176.9	-708.6	165.3	138.1	27.20	6.076			
5,900.0	5,864.3	5,916.3	5,864.3	16.7	18.7	-90.00	176.9	-708.6	165.3	137.7	27.58	5.991			
6,000.0	5,964.3	6,016.3	5,964.3	16.9	18.8	-90.00	176.9	-708.6	165.3	137.3	27.97	5.908			
6,100.0	6,064.3	6,116.3	6,064.3	17.0	19.0	-90.00	176.9	-708.6	165.3	136.9	28.36	5.828			
6,200.0	6,164.3	6,216.3	6,164.3	17.2	19.1	-90.00	176.9	-708.6	165.3	136.5	28.75	5.748			
6,300.0	6,264.3	6,316.3	6,264.3	17.4	19.3	-90.00	176.9	-708.6	165.3	136.1	29.14	5.671			
6,400.0	6,364.3	6,416.3	6,364.3	17.6	19.4	-90.00	176.9	-708.6	165.3	135.7	29.53	5.595			
6,500.0	6,464.3	6,516.3	6,464.3	17.7	19.6	-90.00	176.9	-708.6	165.3	135.3	29.93	5.522			
6,600.0	6,564.3	6,616.3	6,564.3	17.9	19.7	-90.00	176.9	-708.6	165.3	134.9	30.33	5.449			
6,700.0	6,664.3	6,716.3	6,664.3	18.1	19.9	-90.00	176.9	-708.6	165.3	134.5	30.72	5.379			
6,762.6	6,726.9	6,778.8	6,726.9	18.2	20.0	90.29	176.9	-708.6	165.3	134.3	30.95	5.339			
6,800.0	6,764.3	6,816.3	6,764.3	18.2	20.1	90.16	176.9	-708.6	165.3	134.1	31.11	5.312			
6,900.0	6,863.2	6,915.2	6,863.2	18.4	20.2	94.79	176.9	-708.6	165.9	134.7	31.13	5.328			
7,000.0	6,957.6	7,010.5	6,958.6	18.4	20.4	104.51	176.8	-708.6	171.7	140.8	30.93	5.551			
7,100.0	7,044.2	7,116.0	7,063.1	18.5	20.5	115.57	164.0	-708.6	186.2	155.6	30.52	6.099			
7,200.0	7,119.6	7,232.2	7,172.6	18.5	20.6	124.81	126.0	-708.6	206.0	176.5	29.50	6.983			
7,300.0	7,181.2	7,361.3	7,281.0	18.6	20.6	132.00	56.5	-708.6	227.4	199.6	27.76	8.190			
7,400.0	7,226.6	7,504.5	7,377.3	18.8	20.7	137.15	-49.0	-708.6	246.4	220.7	25.71	9.584			
7,500.0	7,254.2	7,660.6	7,445.2	19.1	21.0	140.25	-188.9	-708.6	259.5	235.4	24.10	10.768			
7,600.0	7,263.1	7,822.8	7,468.9	19.6	21.6	141.24	-348.6	-708.6	263.9	240.2	23.69	11.139			
7,700.0	7,262.6	7,922.8	7,468.5	20.3	22.2	141.25	-448.6	-708.6	264.0	239.3	24.72	10.680			
7,800.0	7,262.1	8,022.8	7,468.2	21.2	22.9	141.27	-548.6	-708.6	264.1	238.2	25.97	10.170			
7,900.0	7,261.6	8,122.8	7,467.8	22.2	23.9	141.29	-648.6	-708.6	264.2	236.8	27.42	9.637			
8,000.0	7,261.2	8,222.8	7,467.5	23.3	24.9	141.30	-748.6	-708.6	264.3	235.3	29.04	9.103			
8,100.0	7,260.7	8,322.8	7,467.1	24.6	26.1	141.32	-848.6	-708.6	264.4	233.6	30.80	8.585			
8,200.0	7,260.2	8,422.8	7,466.8	25.9	27.3	141.34	-948.6	-708.6	264.5	231.8	32.68	8.094			
8,300.0	7,259.8	8,522.8	7,466.4	27.3	28.6	141.35	-1,048.6	-708.6	264.6	229.9	34.66	7.634			
8,400.0	7,259.3	8,622.8	7,466.1	28.8	30.0	141.37	-1,148.6	-708.6	264.7	228.0	36.72	7.208			
8,500.0	7,258.8	8,722.8	7,465.7	30.3	31.5	141.38	-1,248.6	-708.6	264.8	225.9	38.86	6.815			
8,600.0	7,258.3	8,822.8	7,465.4	31.9	33.0	141.40	-1,348.6	-708.6	264.9	223.8	41.05	6.453			
8,700.0	7,257.9	8,922.8	7,465.0	33.5	34.5	141.42	-1,448.6	-708.6	265.0	221.7	43.29	6.121			
8,800.0	7,257.4	9,022.8	7,464.7	35.1	36.1	141.43	-1,548.6	-708.6	265.1	219.5	45.57	5.817			
8,900.0	7,256.9	9,122.8	7,464.3	36.7	37.7	141.45	-1,648.6	-708.6	265.2	217.3	47.89	5.537			
9,000.0	7,256.5	9,222.8	7,464.0	38.4	39.3	141.47	-1,748.6	-708.6	265.3	215.0	50.24	5.280			
9,100.0	7,256.0	9,322.8	7,463.6	40.1	41.0	141.48	-1,848.6	-708.6	265.4	212.7	52.62	5.043			
9,200.0	7,255.5	9,422.8	7,463.3	41.8	42.7	141.50	-1,948.6	-708.6	265.5	210.4	55.02	4.825			
9,300.0	7,255.0	9,522.8	7,462.9	43.6	44.4	141.52	-2,048.6	-708.6	265.6	208.1	57.43	4.624			
9,400.0	7,254.6	9,622.8	7,462.6	45.3	46.1	141.53	-2,148.6	-708.6	265.7	205.8	59.87	4.437			
9,500.0	7,254.1	9,722.8	7,462.2	47.1	47.8	141.55	-2,248.6	-708.6	265.7	203.4	62.32	4.264			
9,600.0	7,253.6	9,822.8	7,461.9	48.9	49.6	141.57	-2,348.6	-708.6	265.8	201.1	64.78	4.104			
9,700.0	7,253.2	9,922.8	7,461.5	50.6	51.3	141.58	-2,448.6	-708.6	265.9	198.7	67.26	3.954			
9,800.0	7,252.7	10,022.8	7,461.2	52.4	53.1	141.60	-2,548.6	-708.6	266.0	196.3	69.74	3.815			
9,900.0	7,252.2	10,122.8	7,460.8	54.2	54.9	141.61	-2,648.6	-708.6	266.1	193.9	72.24	3.684			
10,000.0	7,251.7	10,222.8	7,460.5	56.1	56.7	141.63	-2,748.6	-708.6	266.2	191.5	74.74	3.562			
10,100.0	7,251.3	10,322.8	7,460.1	57.9	58.5	141.65	-2,848.6	-708.6	266.3	189.1	77.25	3.448			
10,200.0	7,250.8	10,422.8	7,459.8	59.7	60.3	141.66	-2,948.6	-708.6	266.4	186.7	79.76	3.340			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	7,250.3	10,522.8	7,459.4	61.5	62.1	141.68	-3,048.6	-708.6	266.5	184.2	82.28	3.239			
10,400.0	7,249.9	10,622.8	7,459.1	63.4	63.9	141.70	-3,148.6	-708.6	266.6	181.8	84.81	3.144			
10,500.0	7,249.4	10,722.8	7,458.7	65.2	65.7	141.71	-3,248.6	-708.6	266.7	179.4	87.34	3.054			
10,600.0	7,248.9	10,822.8	7,458.4	67.0	67.6	141.73	-3,348.6	-708.6	266.8	176.9	89.87	2.969			
10,700.0	7,248.5	10,922.8	7,458.0	68.9	69.4	141.74	-3,448.6	-708.6	266.9	174.5	92.41	2.888			
10,800.0	7,248.0	11,022.8	7,457.7	70.7	71.2	141.76	-3,548.6	-708.6	267.0	172.0	94.95	2.812			
10,900.0	7,247.5	11,122.8	7,457.3	72.6	73.1	141.78	-3,648.6	-708.6	267.1	169.6	97.49	2.740			
11,000.0	7,247.0	11,222.8	7,457.0	74.4	74.9	141.79	-3,748.6	-708.6	267.2	167.2	100.03	2.671			
11,100.0	7,246.6	11,322.8	7,456.6	76.3	76.8	141.81	-3,848.6	-708.6	267.3	164.7	102.58	2.606			
11,200.0	7,246.1	11,422.8	7,456.3	78.2	78.6	141.83	-3,948.6	-708.6	267.4	162.2	105.13	2.543			
11,300.0	7,245.6	11,522.8	7,455.9	80.0	80.5	141.84	-4,048.6	-708.6	267.5	159.8	107.68	2.484			
11,400.0	7,245.2	11,622.8	7,455.6	81.9	82.3	141.86	-4,148.6	-708.6	267.6	157.3	110.23	2.427			
11,500.0	7,244.7	11,722.8	7,455.2	83.8	84.2	141.87	-4,248.6	-708.6	267.7	154.9	112.79	2.373			
11,600.0	7,244.2	11,822.8	7,454.9	85.6	86.1	141.89	-4,348.6	-708.6	267.8	152.4	115.34	2.321			
11,700.0	7,243.7	11,922.8	7,454.5	87.5	87.9	141.91	-4,448.6	-708.6	267.9	150.0	117.90	2.272			
11,800.0	7,243.3	12,022.8	7,454.2	89.4	89.8	141.92	-4,548.6	-708.6	268.0	147.5	120.45	2.225			
11,856.7	7,243.0	12,078.8	7,454.0	90.4	90.8	141.93	-4,604.6	-708.6	268.0	146.1	121.89	2.199 SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	1.0	1.0	0.0	0.0	90.05	0.0	14.0	14.0	14.0	0.00	N/A			
100.0	100.0	101.0	101.0	0.1	0.1	90.05	0.0	14.0	14.0	13.8	0.23	61.680			
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	14.0	14.0	13.3	0.68	20.697			
300.0	300.0	301.0	301.0	0.6	0.6	90.05	0.0	14.0	14.0	12.9	1.13	12.435			
400.0	400.0	401.0	401.0	0.8	0.8	90.05	0.0	14.0	14.0	12.4	1.58	8.887 CC			
500.0	500.0	501.0	501.0	1.0	1.0	163.98	0.0	14.0	15.7	13.7	2.02	7.761			
600.0	599.8	600.8	600.8	1.2	1.2	167.95	0.0	14.0	20.8	18.3	2.46	8.432			
700.0	699.5	700.5	700.5	1.5	1.5	171.48	0.0	14.0	29.3	26.4	2.91	10.092			
800.0	798.7	799.7	799.7	1.7	1.7	173.93	0.0	14.0	41.2	37.9	3.35	12.304			
900.0	897.9	898.9	898.9	2.0	1.9	175.37	0.0	14.0	54.0	50.2	3.80	14.209			
1,000.0	997.1	998.1	998.1	2.3	2.1	176.26	0.0	14.0	66.7	62.5	4.25	15.705			
1,100.0	1,096.3	1,100.0	1,099.9	2.6	2.4	176.66	0.7	12.4	77.8	73.1	4.70	16.573			
1,200.0	1,195.4	1,202.6	1,202.4	2.9	2.6	176.57	2.9	7.5	85.4	80.3	5.14	16.619			
1,300.0	1,294.6	1,305.6	1,305.0	3.3	2.8	176.09	6.7	-0.8	89.5	83.9	5.59	15.999			
1,400.0	1,393.8	1,407.1	1,405.8	3.6	3.1	175.30	11.7	-11.9	90.5	84.4	6.05	14.953			
1,500.0	1,493.0	1,507.1	1,505.0	3.9	3.3	174.47	16.8	-23.2	91.0	84.5	6.51	13.986			
1,600.0	1,592.2	1,607.1	1,604.2	4.2	3.6	173.66	21.9	-34.5	91.6	84.7	6.97	13.141			
1,700.0	1,691.3	1,707.1	1,703.5	4.5	3.9	172.86	27.0	-45.8	92.3	84.8	7.44	12.396			
1,800.0	1,790.5	1,807.1	1,802.7	4.9	4.2	172.07	32.1	-57.1	92.9	85.0	7.92	11.737			
1,900.0	1,889.7	1,907.1	1,901.9	5.2	4.4	171.29	37.2	-68.4	93.6	85.2	8.39	11.149			
2,000.0	1,988.9	2,007.1	2,001.1	5.5	4.7	170.53	42.3	-79.7	94.2	85.4	8.87	10.622			
2,100.0	2,088.1	2,107.1	2,100.3	5.8	5.0	169.77	47.4	-91.0	94.9	85.6	9.36	10.147			
2,200.0	2,187.2	2,207.0	2,199.6	6.2	5.3	169.02	52.5	-102.3	95.6	85.8	9.84	9.717			
2,300.0	2,286.4	2,307.0	2,298.8	6.5	5.6	168.29	57.6	-113.6	96.4	86.0	10.33	9.326			
2,400.0	2,385.6	2,407.0	2,398.0	6.8	6.0	167.57	62.6	-124.9	97.1	86.3	10.83	8.969			
2,500.0	2,484.8	2,507.0	2,497.2	7.2	6.3	166.85	67.7	-136.2	97.9	86.5	11.32	8.643			
2,600.0	2,583.9	2,607.0	2,596.4	7.5	6.6	166.15	72.8	-147.5	98.6	86.8	11.82	8.342			
2,700.0	2,683.1	2,707.0	2,695.7	7.8	6.9	165.46	77.9	-158.8	99.4	87.1	12.33	8.065			
2,800.0	2,782.3	2,807.0	2,794.9	8.1	7.2	164.78	83.0	-170.1	100.2	87.4	12.83	7.809			
2,900.0	2,881.5	2,907.0	2,894.1	8.5	7.5	164.11	88.1	-181.4	101.0	87.7	13.34	7.572			
3,000.0	2,980.7	3,007.0	2,993.3	8.8	7.8	163.46	93.2	-192.7	101.8	88.0	13.86	7.351			
3,100.0	3,079.8	3,106.9	3,092.5	9.1	8.1	162.81	98.3	-204.0	102.7	88.3	14.37	7.145			
3,200.0	3,179.0	3,206.9	3,191.7	9.5	8.5	162.17	103.4	-215.3	103.5	88.6	14.89	6.953			
3,300.0	3,278.2	3,306.9	3,291.0	9.8	8.8	161.54	108.5	-226.6	104.4	89.0	15.41	6.774			
3,400.0	3,377.4	3,406.9	3,390.2	10.1	9.1	160.93	113.6	-237.9	105.3	89.3	15.94	6.606			
3,500.0	3,476.6	3,506.9	3,489.4	10.4	9.4	160.32	118.7	-249.2	106.2	89.7	16.47	6.448			
3,600.0	3,575.7	3,606.9	3,588.6	10.8	9.7	159.73	123.8	-260.5	107.1	90.1	17.00	6.299			
3,700.0	3,674.9	3,706.9	3,687.8	11.1	10.0	159.14	128.9	-271.8	108.0	90.4	17.53	6.159			
3,800.0	3,774.1	3,806.9	3,787.1	11.4	10.4	158.57	134.0	-283.1	108.9	90.8	18.07	6.027			
3,900.0	3,873.3	3,906.9	3,886.3	11.8	10.7	158.00	139.1	-294.4	109.8	91.2	18.61	5.902			
4,000.0	3,972.5	4,006.9	3,985.5	12.1	11.0	157.44	144.2	-305.7	110.8	91.6	19.15	5.784			
4,100.0	4,071.6	4,106.8	4,084.7	12.4	11.3	156.90	149.3	-317.0	111.7	92.0	19.70	5.672			
4,200.0	4,170.8	4,206.8	4,183.9	12.7	11.6	156.36	154.4	-328.3	112.7	92.5	20.25	5.566			
4,300.0	4,270.0	4,306.8	4,283.1	13.1	12.0	155.83	159.5	-339.6	113.7	92.9	20.80	5.465			
4,400.0	4,369.2	4,406.8	4,382.4	13.4	12.3	155.31	164.6	-350.9	114.7	93.3	21.35	5.370			
4,500.0	4,468.3	4,505.6	4,480.4	13.7	12.6	154.86	169.5	-361.8	115.8	94.0	21.89	5.292			
4,600.0	4,567.5	4,602.1	4,576.5	14.1	12.8	155.10	173.3	-370.2	119.3	97.0	22.32	5.347			
4,700.0	4,666.7	4,700.0	4,674.2	14.4	13.0	156.10	175.8	-375.6	125.8	103.1	22.68	5.544			
4,800.0	4,765.9	4,794.1	4,768.2	14.7	13.1	157.63	176.8	-378.0	135.1	112.1	22.98	5.879			
4,900.0	4,865.1	4,891.9	4,866.1	15.0	13.3	159.47	176.9	-378.1	146.7	123.4	23.27	6.304			
5,000.0	4,964.6	4,991.4	4,965.6	15.3	13.4	160.81	176.9	-378.1	156.1	132.5	23.56	6.623			
5,100.0	5,064.4	5,091.2	5,065.4	15.4	13.6	161.60	176.9	-378.1	162.2	138.3	23.87	6.795			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,164.3	5,191.2	5,165.3	15.6	13.8	161.95	176.9	-378.1	165.0	140.9	24.18	6.827			
5,300.0	5,264.3	5,291.2	5,265.3	15.7	14.0	90.00	176.9	-378.1	165.3	140.7	24.53	6.736			
5,400.0	5,364.3	5,391.2	5,365.3	15.9	14.2	90.00	176.9	-378.1	165.3	140.3	24.93	6.629			
5,500.0	5,464.3	5,491.2	5,465.3	16.1	14.3	90.00	176.9	-378.1	165.3	139.9	25.33	6.525			
5,600.0	5,564.3	5,591.2	5,565.3	16.2	14.5	90.00	176.9	-378.1	165.3	139.5	25.72	6.424			
5,700.0	5,664.3	5,691.2	5,665.3	16.4	14.7	90.00	176.9	-378.1	165.3	139.1	26.12	6.326			
5,800.0	5,764.3	5,791.2	5,765.3	16.5	14.9	90.00	176.9	-378.1	165.3	138.7	26.52	6.230			
5,900.0	5,864.3	5,891.2	5,865.3	16.7	15.1	90.00	176.9	-378.1	165.3	138.3	26.93	6.137			
6,000.0	5,964.3	5,991.2	5,965.3	16.9	15.3	90.00	176.9	-378.1	165.3	137.9	27.33	6.046			
6,100.0	6,064.3	6,091.2	6,065.3	17.0	15.5	90.00	176.9	-378.1	165.3	137.5	27.74	5.958			
6,200.0	6,164.3	6,191.2	6,165.3	17.2	15.6	90.00	176.9	-378.1	165.3	137.1	28.14	5.872			
6,300.0	6,264.3	6,291.2	6,265.3	17.4	15.8	90.00	176.9	-378.1	165.3	136.7	28.55	5.788			
6,400.0	6,364.3	6,391.2	6,365.3	17.6	16.0	90.00	176.9	-378.1	165.3	136.3	28.96	5.706			
6,500.0	6,464.3	6,491.2	6,465.3	17.7	16.2	90.00	176.9	-378.1	165.3	135.9	29.37	5.626			
6,600.0	6,564.3	6,591.2	6,565.3	17.9	16.4	90.00	176.9	-378.1	165.3	135.5	29.78	5.548			
6,700.0	6,664.3	6,691.2	6,665.3	18.1	16.6	90.00	176.9	-378.1	165.3	135.1	30.20	5.473			
6,800.0	6,764.3	6,791.2	6,765.3	18.2	16.8	-90.00	176.4	-378.1	165.3	134.7	30.60	5.401			
6,900.0	6,863.2	6,891.2	6,864.2	18.4	16.9	-90.00	162.6	-378.1	165.3	134.4	30.85	5.356			
7,000.0	6,957.6	6,991.2	6,958.6	18.4	17.0	-90.00	130.2	-378.1	165.3	134.3	31.00	5.331			
7,100.0	7,044.2	7,091.2	7,045.2	18.5	17.1	-90.00	80.4	-378.1	165.3	134.1	31.11	5.312			
7,200.0	7,119.6	7,191.2	7,120.6	18.5	17.1	-90.00	15.0	-378.1	165.3	133.9	31.31	5.279			
7,300.0	7,181.2	7,291.2	7,182.2	18.6	17.2	-90.00	-63.6	-378.1	165.3	133.6	31.70	5.214			
7,400.0	7,226.6	7,391.2	7,227.6	18.8	17.4	-90.00	-152.5	-378.1	165.3	132.9	32.38	5.103			
7,500.0	7,254.2	7,491.2	7,255.2	19.1	17.7	-90.00	-248.5	-378.1	165.3	131.8	33.43	4.944			
7,538.8	7,259.9	7,530.0	7,260.9	19.3	17.9	-89.99	-286.8	-378.1	165.3	131.3	33.95	4.868			
7,600.0	7,263.1	7,591.2	7,264.1	19.6	18.3	-90.00	-347.9	-378.1	165.3	130.4	34.81	4.747			
7,700.0	7,262.6	7,691.2	7,263.6	20.3	19.1	-90.00	-447.9	-378.1	165.3	128.7	36.54	4.523			
7,800.0	7,262.1	7,791.2	7,263.1	21.2	20.0	-90.00	-547.9	-378.1	165.3	126.7	38.56	4.285			
7,900.0	7,261.6	7,891.2	7,262.6	22.2	21.1	-90.00	-647.9	-378.1	165.3	124.4	40.85	4.046			
8,000.0	7,261.2	7,991.2	7,262.2	23.3	22.4	-90.00	-747.9	-378.1	165.3	121.9	43.35	3.812			
8,100.0	7,260.7	8,091.2	7,261.7	24.6	23.7	-90.00	-847.9	-378.1	165.3	119.2	46.03	3.590			
8,200.0	7,260.2	8,191.2	7,261.2	25.9	25.0	-90.00	-947.9	-378.1	165.3	116.4	48.87	3.382			
8,300.0	7,259.8	8,291.2	7,260.8	27.3	26.5	-90.00	-1,047.9	-378.1	165.3	113.4	51.84	3.188			
8,400.0	7,259.3	8,391.2	7,260.3	28.8	28.0	-90.00	-1,147.9	-378.1	165.3	110.3	54.91	3.010			
8,500.0	7,258.8	8,491.2	7,259.8	30.3	29.6	-90.00	-1,247.9	-378.1	165.3	107.2	58.07	2.846			
8,600.0	7,258.3	8,591.2	7,259.3	31.9	31.1	-90.00	-1,347.9	-378.1	165.3	103.9	61.31	2.695			
8,700.0	7,257.9	8,691.2	7,258.9	33.5	32.8	-90.00	-1,447.9	-378.1	165.3	100.6	64.62	2.557			
8,800.0	7,257.4	8,791.2	7,258.4	35.1	34.4	-90.00	-1,547.9	-378.1	165.3	97.3	67.98	2.431			
8,900.0	7,256.9	8,891.2	7,257.9	36.7	36.1	-90.00	-1,647.9	-378.1	165.3	93.9	71.38	2.315			
9,000.0	7,256.5	8,991.2	7,257.5	38.4	37.8	-90.00	-1,747.9	-378.1	165.3	90.4	74.83	2.208			
9,100.0	7,256.0	9,091.2	7,257.0	40.1	39.5	-90.00	-1,847.9	-378.1	165.3	86.9	78.31	2.110			
9,200.0	7,255.5	9,191.2	7,256.5	41.8	41.3	-90.00	-1,947.9	-378.1	165.3	83.4	81.83	2.020			
9,300.0	7,255.0	9,291.2	7,256.0	43.6	43.0	-90.00	-2,047.9	-378.1	165.3	79.9	85.37	1.936			
9,400.0	7,254.6	9,391.2	7,255.6	45.3	44.8	-90.00	-2,147.9	-378.1	165.3	76.3	88.94	1.858			
9,500.0	7,254.1	9,491.2	7,255.1	47.1	46.6	-90.00	-2,247.9	-378.1	165.3	72.7	92.52	1.786			
9,600.0	7,253.6	9,591.2	7,254.6	48.9	48.4	-90.00	-2,347.9	-378.1	165.3	69.1	96.13	1.719			
9,700.0	7,253.2	9,691.2	7,254.2	50.6	50.2	-90.00	-2,447.9	-378.1	165.3	65.5	99.75	1.657			
9,800.0	7,252.7	9,791.2	7,253.7	52.4	52.0	-90.00	-2,547.9	-378.1	165.3	61.9	103.39	1.598			
9,900.0	7,252.2	9,891.2	7,253.2	54.2	53.8	-90.00	-2,647.9	-378.1	165.3	58.2	107.04	1.544			
10,000.0	7,251.7	9,991.2	7,252.7	56.1	55.6	-90.00	-2,747.9	-378.1	165.3	54.5	110.71	1.493	Level 3		
10,100.0	7,251.3	10,091.2	7,252.3	57.9	57.5	-90.00	-2,847.9	-378.1	165.3	50.9	114.38	1.445	Level 3		
10,200.0	7,250.8	10,191.2	7,251.8	59.7	59.3	-90.00	-2,947.9	-378.1	165.3	47.2	118.06	1.400	Level 3		

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	7,250.3	10,291.2	7,251.3	61.5	61.1	-90.00	-3,047.9	-378.1	165.3	43.5	121.76	1.357	Level 3		
10,400.0	7,249.9	10,391.2	7,250.9	63.4	63.0	-90.00	-3,147.9	-378.1	165.3	39.8	125.46	1.317	Level 3		
10,500.0	7,249.4	10,491.2	7,250.4	65.2	64.8	-90.00	-3,247.9	-378.1	165.3	36.1	129.17	1.279	Level 3		
10,600.0	7,248.9	10,591.2	7,249.9	67.0	66.7	-90.00	-3,347.9	-378.1	165.3	32.4	132.88	1.244	Level 2		
10,700.0	7,248.5	10,691.2	7,249.5	68.9	68.5	-90.00	-3,447.9	-378.1	165.3	28.6	136.61	1.210	Level 2		
10,800.0	7,248.0	10,791.2	7,249.0	70.7	70.4	-90.00	-3,547.9	-378.1	165.3	24.9	140.33	1.178	Level 2		
10,900.0	7,247.5	10,891.2	7,248.5	72.6	72.2	-90.00	-3,647.9	-378.1	165.3	21.2	144.07	1.147	Level 2		
11,000.0	7,247.0	10,991.2	7,248.0	74.4	74.1	-90.00	-3,747.9	-378.1	165.3	17.4	147.81	1.118	Level 2		
11,100.0	7,246.6	11,091.2	7,247.6	76.3	76.0	-90.00	-3,847.9	-378.1	165.3	13.7	151.55	1.090	Level 2		
11,200.0	7,246.1	11,191.2	7,247.1	78.2	77.8	-90.00	-3,947.9	-378.1	165.3	10.0	155.30	1.064	Level 2		
11,300.0	7,245.6	11,291.2	7,246.6	80.0	79.7	-90.00	-4,047.9	-378.1	165.3	6.2	159.05	1.039	Level 2		
11,400.0	7,245.2	11,391.2	7,246.2	81.9	81.6	-90.00	-4,147.9	-378.1	165.3	2.5	162.80	1.015	Level 2		
11,500.0	7,244.7	11,491.2	7,245.7	83.8	83.5	-90.00	-4,247.9	-378.1	165.3	-1.3	166.56	0.992	Level 1		
11,600.0	7,244.2	11,591.2	7,245.2	85.6	85.3	-90.00	-4,347.9	-378.1	165.3	-5.1	170.32	0.970	Level 1		
11,700.0	7,243.7	11,691.2	7,244.7	87.5	87.2	-90.00	-4,447.9	-378.1	165.3	-8.8	174.09	0.949	Level 1		
11,800.0	7,243.3	11,791.2	7,244.3	89.4	89.1	-90.00	-4,547.9	-378.1	165.3	-12.6	177.86	0.929	Level 1		
11,856.7	7,243.0	11,847.9	7,244.0	90.4	90.2	-90.00	-4,604.6	-378.1	165.3	-14.7	180.00	0.918	Level 1, ES, SF		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
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	CC, ES		
500.0	500.0	501.0	501.0	1.0	1.0	162.91	0.0	30.8	32.5	30.4	2.02	16.079			
600.0	599.8	600.8	600.8	1.2	1.2	165.24	0.0	30.8	37.5	35.0	2.46	15.239			
700.0	699.5	700.5	700.5	1.5	1.5	167.97	0.0	30.8	46.0	43.1	2.91	15.821			
800.0	798.7	799.7	799.7	1.7	1.7	170.42	0.0	30.8	57.8	54.4	3.35	17.236			
900.0	897.9	898.9	898.9	2.0	1.9	172.15	0.0	30.8	70.4	66.6	3.80	18.537			
1,000.0	997.1	998.1	998.1	2.3	2.1	173.36	0.0	30.8	83.1	78.9	4.25	19.559			
1,100.0	1,096.3	1,097.3	1,097.3	2.6	2.4	174.24	0.0	30.8	95.8	91.1	4.70	20.379			
1,200.0	1,195.4	1,196.4	1,196.4	2.9	2.6	174.92	0.0	30.8	108.6	103.4	5.16	21.050			
1,300.0	1,294.6	1,295.6	1,295.6	3.3	2.8	175.45	0.0	30.8	121.3	115.7	5.61	21.610			
1,400.0	1,393.8	1,394.8	1,394.8	3.6	3.0	175.89	0.0	30.8	134.1	128.0	6.07	22.082			
1,500.0	1,493.0	1,498.6	1,498.6	3.9	3.3	176.01	1.0	29.4	145.3	138.8	6.53	22.251			
1,600.0	1,592.2	1,603.3	1,603.2	4.2	3.5	175.57	4.3	25.0	153.2	146.2	6.99	21.927			
1,700.0	1,691.3	1,708.5	1,707.9	4.5	3.7	174.62	9.9	17.5	157.8	150.4	7.45	21.175			
1,800.0	1,790.5	1,810.6	1,809.3	4.9	4.0	173.28	17.1	7.7	159.6	151.7	7.92	20.159			
1,900.0	1,889.7	1,910.6	1,908.5	5.2	4.2	171.95	24.5	-2.2	161.2	152.9	8.39	19.225			
2,000.0	1,988.9	2,010.5	2,007.6	5.5	4.5	170.65	31.8	-12.1	162.9	154.1	8.86	18.384			
2,100.0	2,088.1	2,110.4	2,106.8	5.8	4.7	169.37	39.1	-22.0	164.7	155.4	9.35	17.626			
2,200.0	2,187.2	2,210.3	2,205.9	6.2	5.0	168.13	46.4	-31.9	166.6	156.8	9.83	16.939			
2,300.0	2,286.4	2,310.2	2,305.1	6.5	5.3	166.91	53.7	-41.7	168.5	158.2	10.33	16.313			
2,400.0	2,385.6	2,410.1	2,404.3	6.8	5.6	165.71	61.0	-51.6	170.5	159.7	10.83	15.741			
2,500.0	2,484.8	2,510.1	2,503.4	7.2	5.9	164.55	68.4	-61.5	172.6	161.3	11.34	15.218			
2,600.0	2,583.9	2,610.0	2,602.6	7.5	6.2	163.42	75.7	-71.4	174.8	162.9	11.86	14.738			
2,700.0	2,683.1	2,709.9	2,701.7	7.8	6.5	162.31	83.0	-81.2	177.0	164.6	12.38	14.295			
2,800.0	2,782.3	2,809.8	2,800.9	8.1	6.8	161.23	90.3	-91.1	179.3	166.4	12.91	13.887			
2,900.0	2,881.5	2,909.7	2,900.0	8.5	7.1	160.18	97.6	-101.0	181.6	168.2	13.45	13.509			
3,000.0	2,980.7	3,009.6	2,999.2	8.8	7.4	159.15	104.9	-110.9	184.0	170.0	13.99	13.158			
3,100.0	3,079.8	3,109.6	3,098.4	9.1	7.7	158.16	112.3	-120.8	186.5	172.0	14.53	12.833			
3,200.0	3,179.0	3,209.5	3,197.5	9.5	8.0	157.19	119.6	-130.6	189.0	173.9	15.09	12.530			
3,300.0	3,278.2	3,309.4	3,296.7	9.8	8.3	156.24	126.9	-140.5	191.6	175.9	15.64	12.248			
3,400.0	3,377.4	3,409.3	3,395.8	10.1	8.6	155.32	134.2	-150.4	194.2	178.0	16.21	11.984			
3,500.0	3,476.6	3,509.2	3,495.0	10.4	8.9	154.42	141.5	-160.3	196.9	180.1	16.77	11.738			
3,600.0	3,575.7	3,609.1	3,594.2	10.8	9.2	153.55	148.8	-170.1	199.6	182.3	17.35	11.507			
3,700.0	3,674.9	3,709.1	3,693.3	11.1	9.5	152.70	156.2	-180.0	202.4	184.4	17.92	11.291			
3,800.0	3,774.1	3,809.0	3,792.5	11.4	9.8	151.88	163.5	-189.9	205.2	186.7	18.50	11.088			
3,900.0	3,873.3	3,906.8	3,889.6	11.8	10.1	151.16	170.5	-199.3	208.2	189.2	19.06	10.923			
4,000.0	3,972.5	4,000.0	3,982.4	12.1	10.3	151.01	175.6	-206.2	213.2	193.7	19.53	10.918			
4,100.0	4,071.6	4,096.8	4,079.0	12.4	10.5	151.47	179.0	-210.8	220.5	200.5	19.95	11.051			
4,200.0	4,170.8	4,191.1	4,173.3	12.7	10.6	152.47	180.4	-212.8	230.0	209.7	20.31	11.324			
4,300.0	4,270.0	4,288.8	4,271.0	13.1	10.8	153.83	180.5	-212.9	241.4	220.7	20.66	11.684			
4,400.0	4,369.2	4,388.0	4,370.2	13.4	11.0	155.11	180.5	-212.9	252.9	231.9	21.03	12.028			
4,500.0	4,468.3	4,487.2	4,469.3	13.7	11.2	156.27	180.5	-212.9	264.6	243.2	21.41	12.360			
4,600.0	4,567.5	4,586.4	4,568.5	14.1	11.4	157.34	180.5	-212.9	276.4	254.6	21.79	12.680			
4,700.0	4,666.7	4,685.5	4,667.7	14.4	11.6	158.32	180.5	-212.9	288.2	266.0	22.19	12.990			
4,800.0	4,765.9	4,784.7	4,766.9	14.7	11.8	159.22	180.5	-212.9	300.1	277.6	22.59	13.288			
4,900.0	4,865.1	4,883.9	4,866.1	15.0	12.0	160.06	180.5	-212.9	312.0	289.0	22.99	13.570			
5,000.0	4,964.6	4,983.4	4,965.6	15.3	12.2	160.73	180.5	-212.9	321.4	298.0	23.36	13.757			
5,100.0	5,064.4	5,083.2	5,065.4	15.4	12.3	161.14	180.5	-212.9	327.5	303.8	23.71	13.810			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0ft	
Survey Program: 0-MWD													Offset Well Error:		0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,164.3	5,183.1	5,165.3	15.6	12.5	161.33	180.5	-212.9	330.3	306.3	24.05	13.733			
5,300.0	5,264.3	5,283.1	5,265.3	15.7	12.7	89.38	180.5	-212.9	330.5	306.1	24.42	13.534			
5,400.0	5,364.3	5,383.1	5,365.3	15.9	12.9	89.38	180.5	-212.9	330.5	305.7	24.82	13.315			
5,500.0	5,464.3	5,483.1	5,465.3	16.1	13.1	89.38	180.5	-212.9	330.5	305.3	25.23	13.102			
5,600.0	5,564.3	5,583.1	5,565.3	16.2	13.3	89.38	180.5	-212.9	330.5	304.9	25.63	12.895			
5,700.0	5,664.3	5,683.1	5,665.3	16.4	13.6	89.38	180.5	-212.9	330.5	304.5	26.04	12.694			
5,800.0	5,764.3	5,783.1	5,765.3	16.5	13.8	89.38	180.5	-212.9	330.5	304.1	26.45	12.498			
5,900.0	5,864.3	5,883.1	5,865.3	16.7	14.0	89.38	180.5	-212.9	330.5	303.7	26.85	12.308			
6,000.0	5,964.3	5,983.1	5,965.3	16.9	14.2	89.38	180.5	-212.9	330.5	303.3	27.27	12.123			
6,100.0	6,064.3	6,083.1	6,065.3	17.0	14.4	89.38	180.5	-212.9	330.5	302.9	27.68	11.943			
6,200.0	6,164.3	6,183.1	6,165.3	17.2	14.6	89.38	180.5	-212.9	330.5	302.4	28.09	11.767			
6,300.0	6,264.3	6,283.1	6,265.3	17.4	14.8	89.38	180.5	-212.9	330.5	302.0	28.50	11.596			
6,400.0	6,364.3	6,383.1	6,365.3	17.6	15.0	89.38	180.5	-212.9	330.5	301.6	28.92	11.430			
6,500.0	6,464.3	6,483.1	6,465.3	17.7	15.2	89.38	180.5	-212.9	330.5	301.2	29.33	11.268			
6,600.0	6,564.3	6,583.1	6,565.3	17.9	15.4	89.38	180.5	-212.9	330.5	300.8	29.75	11.110			
6,700.0	6,664.3	6,683.1	6,665.3	18.1	15.6	89.38	180.5	-212.9	330.5	300.4	30.17	10.956			
6,800.0	6,764.3	6,783.3	6,765.5	18.2	15.8	-90.62	180.0	-212.9	330.5	300.0	30.57	10.811			
6,900.0	6,863.2	6,884.0	6,865.0	18.4	15.9	-90.61	166.1	-212.9	330.5	299.7	30.82	10.723			
7,000.0	6,957.6	6,984.6	6,960.0	18.4	16.0	-90.57	133.2	-212.9	330.5	299.6	30.96	10.676			
7,100.0	7,044.2	7,085.2	7,046.9	18.5	16.1	-90.51	82.8	-212.9	330.5	299.5	31.06	10.641			
7,200.0	7,119.6	7,185.8	7,122.4	18.5	16.1	-90.43	16.7	-212.9	330.5	299.3	31.24	10.578			
7,300.0	7,181.2	7,286.2	7,183.8	18.6	16.2	-90.33	-62.6	-212.9	330.5	298.9	31.63	10.450			
7,400.0	7,226.6	7,386.5	7,228.8	18.8	16.4	-90.23	-152.0	-212.9	330.5	298.2	32.32	10.228			
7,500.0	7,254.2	7,486.7	7,255.9	19.1	16.8	-90.11	-248.3	-212.9	330.5	297.2	33.36	9.908			
7,600.0	7,263.2	7,586.7	7,264.0	19.6	17.5	-89.97	-347.9	-212.9	330.5	295.8	34.74	9.513			
7,600.0	7,263.1	7,586.7	7,264.0	19.6	17.5	-90.00	-347.9	-212.9	330.5	295.8	34.74	9.513			
7,700.0	7,262.6	7,686.7	7,263.6	20.3	18.4	-90.00	-447.9	-212.9	330.5	294.0	36.47	9.061			
7,800.0	7,262.1	7,786.7	7,263.1	21.2	19.4	-90.00	-547.9	-212.9	330.5	292.0	38.50	8.584			
7,900.0	7,261.6	7,886.7	7,262.6	22.2	20.5	-90.00	-647.9	-212.9	330.5	289.7	40.79	8.103			
8,000.0	7,261.2	7,986.7	7,262.2	23.3	21.8	-90.00	-747.9	-212.9	330.5	287.2	43.29	7.634			
8,100.0	7,260.7	8,086.7	7,261.7	24.6	23.1	-90.00	-847.9	-212.9	330.5	284.5	45.98	7.188			
8,200.0	7,260.2	8,186.7	7,261.2	25.9	24.5	-90.00	-947.9	-212.9	330.5	281.7	48.82	6.770			
8,300.0	7,259.8	8,286.7	7,260.7	27.3	26.0	-90.00	-1,047.9	-212.9	330.5	278.7	51.79	6.382			
8,400.0	7,259.3	8,386.7	7,260.3	28.8	27.6	-90.00	-1,147.9	-212.9	330.5	275.6	54.87	6.024			
8,500.0	7,258.8	8,486.7	7,259.8	30.3	29.1	-90.00	-1,247.9	-212.9	330.5	272.5	58.03	5.695			
8,600.0	7,258.3	8,586.7	7,259.3	31.9	30.7	-90.00	-1,347.9	-212.9	330.5	269.2	61.27	5.394			
8,700.0	7,257.9	8,686.7	7,258.9	33.5	32.4	-90.00	-1,447.9	-212.9	330.5	265.9	64.58	5.118			
8,800.0	7,257.4	8,786.7	7,258.4	35.1	34.1	-90.00	-1,547.9	-212.9	330.5	262.6	67.94	4.865			
8,900.0	7,256.9	8,886.7	7,257.9	36.7	35.8	-90.00	-1,647.9	-212.9	330.5	259.2	71.35	4.632			
9,000.0	7,256.5	8,986.7	7,257.4	38.4	37.5	-90.00	-1,747.9	-212.9	330.5	255.7	74.80	4.419			
9,100.0	7,256.0	9,086.7	7,257.0	40.1	39.2	-90.00	-1,847.9	-212.9	330.5	252.2	78.29	4.222			
9,200.0	7,255.5	9,186.7	7,256.5	41.8	41.0	-90.00	-1,947.9	-212.9	330.5	248.7	81.80	4.040			
9,300.0	7,255.0	9,286.7	7,256.0	43.6	42.7	-90.00	-2,047.9	-212.9	330.5	245.2	85.34	3.873			
9,400.0	7,254.6	9,386.7	7,255.6	45.3	44.5	-90.00	-2,147.9	-212.9	330.5	241.6	88.91	3.717			
9,500.0	7,254.1	9,486.7	7,255.1	47.1	46.3	-90.00	-2,247.9	-212.9	330.5	238.0	92.50	3.573			
9,600.0	7,253.6	9,586.7	7,254.6	48.9	48.1	-90.00	-2,347.9	-212.9	330.5	234.4	96.11	3.439			
9,700.0	7,253.2	9,686.7	7,254.1	50.6	49.9	-90.00	-2,447.9	-212.9	330.5	230.8	99.73	3.314			
9,800.0	7,252.7	9,786.7	7,253.7	52.4	51.7	-90.00	-2,547.9	-212.9	330.5	227.1	103.37	3.197			
9,900.0	7,252.2	9,886.7	7,253.2	54.2	53.6	-90.00	-2,647.9	-212.9	330.5	223.5	107.02	3.088			
10,000.0	7,251.7	9,986.7	7,252.7	56.1	55.4	-90.00	-2,747.9	-212.9	330.5	219.8	110.69	2.986			
10,100.0	7,251.3	10,086.7	7,252.3	57.9	57.2	-90.00	-2,847.9	-212.9	330.5	216.1	114.36	2.890			
10,200.0	7,250.8	10,186.7	7,251.8	59.7	59.1	-90.00	-2,947.9	-212.9	330.5	212.5	118.05	2.800			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	7,250.3	10,286.7	7,251.3	61.5	60.9	-90.00	-3,047.9	-212.9	330.5	208.8	121.74	2.715			
10,400.0	7,249.9	10,386.7	7,250.8	63.4	62.8	-90.00	-3,147.9	-212.9	330.5	205.1	125.44	2.635			
10,500.0	7,249.4	10,486.7	7,250.4	65.2	64.6	-90.00	-3,247.9	-212.9	330.5	201.4	129.15	2.559			
10,600.0	7,248.9	10,586.7	7,249.9	67.0	66.5	-90.00	-3,347.9	-212.9	330.5	197.6	132.87	2.487			
10,700.0	7,248.5	10,686.7	7,249.4	68.9	68.3	-90.00	-3,447.9	-212.9	330.5	193.9	136.59	2.420			
10,800.0	7,248.0	10,786.7	7,249.0	70.7	70.2	-90.00	-3,547.9	-212.9	330.5	190.2	140.32	2.355			
10,900.0	7,247.5	10,886.7	7,248.5	72.6	72.1	-90.00	-3,647.9	-212.9	330.5	186.5	144.05	2.294			
11,000.0	7,247.0	10,986.7	7,248.0	74.4	73.9	-90.00	-3,747.9	-212.9	330.5	182.7	147.79	2.236			
11,100.0	7,246.6	11,086.7	7,247.5	76.3	75.8	-90.00	-3,847.9	-212.9	330.5	179.0	151.54	2.181			
11,200.0	7,246.1	11,186.7	7,247.1	78.2	77.7	-90.00	-3,947.9	-212.9	330.5	175.2	155.28	2.128			
11,300.0	7,245.6	11,286.7	7,246.6	80.0	79.6	-90.00	-4,047.9	-212.9	330.5	171.5	159.04	2.078			
11,400.0	7,245.2	11,386.7	7,246.1	81.9	81.4	-90.00	-4,147.9	-212.9	330.5	167.7	162.79	2.030			
11,500.0	7,244.7	11,486.7	7,245.7	83.8	83.3	-90.00	-4,247.9	-212.9	330.5	164.0	166.55	1.984			
11,600.0	7,244.2	11,586.7	7,245.2	85.6	85.2	-90.00	-4,347.9	-212.9	330.5	160.2	170.31	1.941			
11,700.0	7,243.7	11,686.7	7,244.7	87.5	87.1	-90.00	-4,447.9	-212.9	330.5	156.4	174.08	1.899			
11,800.0	7,243.3	11,786.7	7,244.3	89.4	89.0	-90.00	-4,547.9	-212.9	330.5	152.7	177.85	1.858			
11,831.0	7,243.1	11,817.7	7,244.1	90.0	89.5	-90.00	-4,578.8	-212.9	330.5	151.5	179.01	1.846			
11,856.7	7,243.0	11,839.8	7,244.0	90.4	90.0	-90.00	-4,601.0	-212.9	330.5	150.6	179.92	1.837 SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
0.0	0.0	2.0	2.0	0.0	0.0	90.00	0.0	44.8	44.8	44.8	0.00	N/A				
100.0	100.0	102.0	102.0	0.1	0.1	90.00	0.0	44.8	44.8	44.6	0.23	195.442				
200.0	200.0	202.0	202.0	0.3	0.3	90.00	0.0	44.8	44.8	44.1	0.68	66.010				
300.0	300.0	302.0	302.0	0.6	0.6	90.00	0.0	44.8	44.8	43.7	1.13	39.711				
400.0	400.0	402.0	402.0	0.8	0.8	90.00	0.0	44.8	44.8	43.2	1.58	28.397 CC, ES				
500.0	500.0	502.0	502.0	1.0	1.0	162.62	0.0	44.8	46.5	44.4	2.02	22.988				
600.0	599.8	601.8	601.8	1.2	1.2	164.34	0.0	44.8	51.5	49.0	2.46	20.903				
700.0	699.5	701.5	701.5	1.5	1.5	166.55	0.0	44.8	59.9	57.0	2.91	20.602				
800.0	798.7	800.7	800.7	1.7	1.7	168.75	0.0	44.8	71.7	68.3	3.35	21.360				
900.0	897.9	899.9	899.9	2.0	1.9	170.45	0.0	44.8	84.2	80.4	3.80	22.158				
1,000.0	997.1	999.1	999.1	2.3	2.1	171.70	0.0	44.8	96.9	92.6	4.25	22.782				
1,100.0	1,096.3	1,098.3	1,098.3	2.6	2.4	172.67	0.0	44.8	109.5	104.8	4.71	23.281				
1,200.0	1,195.4	1,197.4	1,197.4	2.9	2.6	173.43	0.0	44.8	122.2	117.1	5.16	23.690				
1,300.0	1,294.6	1,296.6	1,296.6	3.3	2.8	174.05	0.0	44.8	135.0	129.3	5.62	24.029				
1,400.0	1,393.8	1,395.8	1,395.8	3.6	3.0	174.57	0.0	44.8	147.7	141.6	6.07	24.315				
1,500.0	1,493.0	1,495.0	1,495.0	3.9	3.2	175.00	0.0	44.8	160.4	153.9	6.53	24.559				
1,600.0	1,592.2	1,594.2	1,594.2	4.2	3.5	175.37	0.0	44.8	173.2	166.2	6.99	24.770				
1,700.0	1,691.3	1,696.4	1,696.4	4.5	3.7	175.41	1.1	44.3	185.1	177.7	7.45	24.838				
1,800.0	1,790.5	1,799.2	1,799.1	4.9	3.9	174.83	4.6	42.4	195.4	187.5	7.92	24.681				
1,900.0	1,889.7	1,902.1	1,901.8	5.2	4.2	173.71	10.6	39.4	204.0	195.6	8.38	24.328				
2,000.0	1,988.9	2,005.2	2,004.4	5.5	4.4	172.08	19.1	35.0	211.0	202.1	8.86	23.812				
2,100.0	2,088.1	2,105.9	2,104.4	5.8	4.6	170.15	29.2	29.8	216.9	207.6	9.34	23.218				
2,200.0	2,187.2	2,205.4	2,203.4	6.2	4.9	168.32	39.4	24.6	223.0	213.2	9.84	22.677				
2,300.0	2,286.4	2,305.0	2,302.3	6.5	5.1	166.59	49.5	19.5	229.3	219.0	10.34	22.187				
2,400.0	2,385.6	2,404.5	2,401.2	6.8	5.4	164.95	59.6	14.3	235.9	225.0	10.85	21.741				
2,500.0	2,484.8	2,504.1	2,500.1	7.2	5.7	163.40	69.8	9.1	242.6	231.2	11.37	21.335				
2,600.0	2,583.9	2,603.7	2,599.0	7.5	5.9	161.93	79.9	3.9	249.4	237.5	11.90	20.964				
2,700.0	2,683.1	2,703.2	2,697.9	7.8	6.2	160.54	90.0	-1.3	256.5	244.0	12.44	20.624				
2,800.0	2,782.3	2,802.8	2,796.8	8.1	6.5	159.23	100.2	-6.5	263.6	250.6	12.98	20.312				
2,900.0	2,881.5	2,902.4	2,895.7	8.5	6.7	157.99	110.3	-11.7	270.9	257.4	13.53	20.026				
3,000.0	2,980.7	3,001.9	2,994.7	8.8	7.0	156.81	120.4	-16.9	278.3	264.3	14.08	19.762				
3,100.0	3,079.8	3,101.5	3,093.6	9.1	7.3	155.69	130.6	-22.1	285.9	271.2	14.65	19.519				
3,200.0	3,179.0	3,201.1	3,192.5	9.5	7.6	154.63	140.7	-27.2	293.5	278.3	15.21	19.295				
3,300.0	3,278.2	3,300.6	3,291.4	9.8	7.9	153.63	150.8	-32.4	301.2	285.4	15.78	19.087				
3,400.0	3,377.4	3,399.5	3,389.7	10.1	8.2	152.70	160.8	-37.5	309.1	292.7	16.34	18.909				
3,500.0	3,476.6	3,496.7	3,486.4	10.4	8.4	152.14	169.0	-41.7	317.5	300.7	16.84	18.860				
3,600.0	3,575.7	3,593.8	3,583.3	10.8	8.6	152.03	175.0	-44.8	326.8	309.5	17.30	18.890				
3,700.0	3,674.9	3,690.8	3,680.1	11.1	8.7	152.33	178.8	-46.8	336.8	319.1	17.73	18.995				
3,800.0	3,774.1	3,787.4	3,776.8	11.4	8.9	152.99	180.4	-47.6	347.6	329.5	18.13	19.171				
3,900.0	3,873.3	3,885.9	3,875.3	11.8	9.1	153.90	180.5	-47.6	359.0	340.5	18.53	19.377				
4,000.0	3,972.5	3,985.1	3,974.5	12.1	9.3	154.77	180.5	-47.6	370.6	351.6	18.95	19.558				
4,100.0	4,071.6	4,084.3	4,073.6	12.4	9.5	155.59	180.5	-47.6	382.2	362.8	19.37	19.732				
4,200.0	4,170.8	4,183.5	4,172.8	12.7	9.7	156.36	180.5	-47.6	393.9	374.1	19.80	19.899				
4,300.0	4,270.0	4,282.7	4,272.0	13.1	9.9	157.08	180.5	-47.6	405.7	385.4	20.22	20.061				
4,400.0	4,369.2	4,381.8	4,371.2	13.4	10.1	157.76	180.5	-47.6	417.5	396.8	20.65	20.217				
4,500.0	4,468.3	4,481.0	4,470.3	13.7	10.3	158.41	180.5	-47.6	429.4	408.3	21.08	20.368				
4,600.0	4,567.5	4,580.2	4,569.5	14.1	10.5	159.02	180.5	-47.6	441.3	419.8	21.51	20.513				
4,700.0	4,666.7	4,679.4	4,668.7	14.4	10.7	159.60	180.5	-47.6	453.3	431.3	21.95	20.654				
4,800.0	4,765.9	4,778.6	4,767.9	14.7	10.9	160.14	180.5	-47.6	465.3	442.9	22.38	20.790				
4,900.0	4,865.1	4,877.8	4,867.1	15.0	11.2	160.68	180.5	-47.6	477.2	454.4	22.82	20.913				
5,000.0	4,964.6	4,977.3	4,966.6	15.3	11.4	161.13	180.5	-47.6	486.6	463.4	23.22	20.955				
5,100.0	5,064.4	5,077.0	5,066.4	15.4	11.6	161.41	180.5	-47.6	492.7	469.1	23.60	20.878				

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,164.3	5,177.0	5,166.3	15.6	11.8	161.54	180.5	-47.6	495.6	471.6	23.96	20.686			
5,300.0	5,264.3	5,277.0	5,266.3	15.7	12.0	89.58	180.5	-47.6	495.8	471.4	24.34	20.373			
5,400.0	5,364.3	5,377.0	5,366.3	15.9	12.2	89.58	180.5	-47.6	495.8	471.0	24.74	20.039			
5,500.0	5,464.3	5,477.0	5,466.3	16.1	12.4	89.58	180.5	-47.6	495.8	470.6	25.15	19.714			
5,600.0	5,564.3	5,577.0	5,566.3	16.2	12.6	89.58	180.5	-47.6	495.8	470.2	25.56	19.399			
5,700.0	5,664.3	5,677.0	5,666.3	16.4	12.9	89.58	180.5	-47.6	495.8	469.8	25.97	19.092			
5,800.0	5,764.3	5,777.0	5,766.3	16.5	13.1	89.58	180.5	-47.6	495.8	469.4	26.38	18.795			
5,900.0	5,864.3	5,877.0	5,866.3	16.7	13.3	89.58	180.5	-47.6	495.8	469.0	26.79	18.505			
6,000.0	5,964.3	5,977.0	5,966.3	16.9	13.5	89.58	180.5	-47.6	495.8	468.6	27.20	18.224			
6,100.0	6,064.3	6,077.0	6,066.3	17.0	13.7	89.58	180.5	-47.6	495.8	468.2	27.62	17.950			
6,200.0	6,164.3	6,177.0	6,166.3	17.2	13.9	89.58	180.5	-47.6	495.8	467.7	28.04	17.684			
6,300.0	6,264.3	6,277.0	6,266.3	17.4	14.1	89.58	180.5	-47.6	495.8	467.3	28.45	17.425			
6,400.0	6,364.3	6,377.0	6,366.3	17.6	14.4	89.58	180.5	-47.6	495.8	466.9	28.87	17.173			
6,500.0	6,464.3	6,477.0	6,466.3	17.7	14.6	89.58	180.5	-47.6	495.8	466.5	29.29	16.927			
6,600.0	6,564.3	6,577.0	6,566.3	17.9	14.8	89.58	180.5	-47.6	495.8	466.1	29.71	16.688			
6,700.0	6,664.3	6,677.0	6,666.3	18.1	15.0	89.58	180.5	-47.6	495.8	465.6	30.13	16.455			
6,757.9	6,722.2	6,734.9	6,724.2	18.2	15.1	-90.50	180.5	-47.6	495.8	465.4	30.37	16.323			
6,800.0	6,764.3	6,777.0	6,766.3	18.2	15.2	-90.47	180.5	-47.6	495.8	465.2	30.55	16.230			
6,900.0	6,863.2	6,875.9	6,865.2	18.4	15.4	-92.01	180.5	-47.6	496.1	465.1	30.95	16.028			
7,000.0	6,957.6	6,971.4	6,960.7	18.4	15.6	-95.31	180.4	-47.6	498.3	467.0	31.34	15.902			
7,100.0	7,044.2	7,077.7	7,066.1	18.5	15.8	-99.44	167.4	-47.6	503.7	472.2	31.56	15.960			
7,200.0	7,119.6	7,195.0	7,176.5	18.5	15.9	-103.40	128.7	-47.6	511.6	480.0	31.56	16.210			
7,300.0	7,181.2	7,325.3	7,285.6	18.6	16.0	-107.02	58.0	-47.6	520.6	489.2	31.44	16.561			
7,400.0	7,226.6	7,469.8	7,381.9	18.8	16.1	-110.01	-49.2	-47.6	529.1	497.6	31.49	16.800			
7,500.0	7,254.2	7,627.0	7,448.9	19.1	16.6	-111.97	-190.6	-47.6	535.0	502.8	32.20	16.615			
7,600.0	7,263.1	7,787.1	7,470.8	19.6	17.7	-112.54	-348.6	-47.6	536.8	502.9	33.87	15.848			
7,700.0	7,262.6	7,887.1	7,470.5	20.3	18.5	-112.55	-448.6	-47.6	536.8	501.3	35.50	15.121			
7,800.0	7,262.1	7,987.1	7,470.1	21.2	19.5	-112.57	-548.6	-47.6	536.9	499.5	37.40	14.355			
7,900.0	7,261.6	8,087.1	7,469.8	22.2	20.6	-112.58	-648.6	-47.6	536.9	497.4	39.53	13.583			
8,000.0	7,261.2	8,187.1	7,469.4	23.3	21.9	-112.59	-748.6	-47.6	537.0	495.1	41.86	12.828			
8,100.0	7,260.7	8,287.1	7,469.1	24.6	23.2	-112.60	-848.6	-47.6	537.0	492.7	44.35	12.108			
8,200.0	7,260.2	8,387.1	7,468.7	25.9	24.6	-112.61	-948.6	-47.6	537.1	490.1	46.99	11.430			
8,300.0	7,259.8	8,487.1	7,468.4	27.3	26.1	-112.63	-1,048.6	-47.6	537.1	487.4	49.74	10.798			
8,400.0	7,259.3	8,587.1	7,468.1	28.8	27.6	-112.64	-1,148.6	-47.6	537.2	484.6	52.59	10.213			
8,500.0	7,258.8	8,687.1	7,467.7	30.3	29.2	-112.65	-1,248.6	-47.6	537.2	481.7	55.53	9.674			
8,600.0	7,258.3	8,787.1	7,467.4	31.9	30.8	-112.66	-1,348.6	-47.6	537.2	478.7	58.53	9.178			
8,700.0	7,257.9	8,887.1	7,467.0	33.5	32.5	-112.68	-1,448.6	-47.6	537.3	475.7	61.60	8.722			
8,800.0	7,257.4	8,987.1	7,466.7	35.1	34.1	-112.69	-1,548.6	-47.6	537.3	472.6	64.72	8.303			
8,900.0	7,256.9	9,087.1	7,466.3	36.7	35.8	-112.70	-1,648.6	-47.6	537.4	469.5	67.88	7.916			
9,000.0	7,256.5	9,187.1	7,466.0	38.4	37.5	-112.71	-1,748.6	-47.6	537.4	466.3	71.09	7.560			
9,100.0	7,256.0	9,287.1	7,465.6	40.1	39.3	-112.72	-1,848.6	-47.6	537.5	463.2	74.32	7.232			
9,200.0	7,255.5	9,387.1	7,465.3	41.8	41.0	-112.74	-1,948.6	-47.6	537.5	459.9	77.59	6.928			
9,300.0	7,255.0	9,487.1	7,464.9	43.6	42.8	-112.75	-2,048.6	-47.6	537.6	456.7	80.88	6.647			
9,400.0	7,254.6	9,587.1	7,464.6	45.3	44.6	-112.76	-2,148.6	-47.6	537.6	453.4	84.19	6.386			
9,500.0	7,254.1	9,687.1	7,464.2	47.1	46.4	-112.77	-2,248.6	-47.6	537.7	450.1	87.52	6.143			
9,600.0	7,253.6	9,787.1	7,463.9	48.9	48.2	-112.78	-2,348.6	-47.6	537.7	446.8	90.87	5.917			
9,700.0	7,253.2	9,887.1	7,463.5	50.6	50.0	-112.80	-2,448.6	-47.6	537.8	443.5	94.24	5.707			
9,800.0	7,252.7	9,987.1	7,463.2	52.4	51.8	-112.81	-2,548.6	-47.6	537.8	440.2	97.62	5.509			
9,900.0	7,252.2	10,087.1	7,462.8	54.2	53.6	-112.82	-2,648.6	-47.6	537.9	436.9	101.01	5.325			
10,000.0	7,251.7	10,187.1	7,462.5	56.1	55.4	-112.83	-2,748.6	-47.6	537.9	433.5	104.41	5.152			
10,100.0	7,251.3	10,287.1	7,462.1	57.9	57.3	-112.84	-2,848.6	-47.6	538.0	430.1	107.83	4.989			
10,200.0	7,250.8	10,387.1	7,461.8	59.7	59.1	-112.86	-2,948.6	-47.6	538.0	426.8	111.25	4.836			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	7,250.3	10,487.1	7,461.4	61.5	61.0	-112.87	-3,048.6	-47.6	538.0	423.4	114.68	4.692			
10,400.0	7,249.9	10,587.1	7,461.1	63.4	62.8	-112.88	-3,148.6	-47.6	538.1	420.0	118.12	4.555			
10,500.0	7,249.4	10,687.1	7,460.7	65.2	64.7	-112.89	-3,248.6	-47.6	538.1	416.6	121.57	4.427			
10,600.0	7,248.9	10,787.1	7,460.4	67.0	66.5	-112.90	-3,348.6	-47.6	538.2	413.2	125.02	4.305			
10,700.0	7,248.5	10,887.1	7,460.0	68.9	68.4	-112.92	-3,448.6	-47.6	538.2	409.8	128.48	4.189			
10,800.0	7,248.0	10,987.1	7,459.7	70.7	70.2	-112.93	-3,548.6	-47.6	538.3	406.3	131.94	4.080			
10,900.0	7,247.5	11,087.1	7,459.3	72.6	72.1	-112.94	-3,648.6	-47.6	538.3	402.9	135.41	3.976			
11,000.0	7,247.0	11,187.1	7,459.0	74.4	74.0	-112.95	-3,748.6	-47.6	538.4	399.5	138.88	3.877			
11,100.0	7,246.6	11,287.1	7,458.6	76.3	75.8	-112.96	-3,848.6	-47.6	538.4	396.1	142.36	3.782			
11,200.0	7,246.1	11,387.1	7,458.3	78.2	77.7	-112.97	-3,948.6	-47.6	538.5	392.6	145.84	3.692			
11,300.0	7,245.6	11,487.1	7,457.9	80.0	79.6	-112.99	-4,048.6	-47.6	538.5	389.2	149.32	3.607			
11,400.0	7,245.2	11,587.1	7,457.6	81.9	81.5	-113.00	-4,148.6	-47.6	538.6	385.8	152.81	3.525			
11,500.0	7,244.7	11,687.1	7,457.2	83.8	83.3	-113.01	-4,248.6	-47.6	538.6	382.3	156.29	3.446			
11,600.0	7,244.2	11,787.1	7,456.9	85.6	85.2	-113.02	-4,348.6	-47.6	538.7	378.9	159.79	3.371			
11,700.0	7,243.7	11,887.1	7,456.5	87.5	87.1	-113.03	-4,448.6	-47.6	538.7	375.4	163.28	3.299			
11,800.0	7,243.3	11,987.1	7,456.2	89.4	89.0	-113.05	-4,548.6	-47.6	538.8	372.0	166.78	3.230			
11,828.7	7,243.1	12,015.8	7,456.1	89.9	89.5	-113.05	-4,577.3	-47.6	538.8	371.0	167.78	3.211			
11,856.7	7,243.0	12,039.5	7,456.0	90.4	90.0	-113.05	-4,601.0	-47.6	538.8	370.1	168.69	3.194 SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	2.0	2.0	0.0	0.0	90.00	0.0	61.6	61.6	61.6	0.00	N/A			
100.0	100.0	102.0	102.0	0.1	0.1	90.00	0.0	61.6	61.6	61.4	0.23	268.732			
200.0	200.0	202.0	202.0	0.3	0.3	90.00	0.0	61.6	61.6	60.9	0.68	90.764			
300.0	300.0	302.0	302.0	0.6	0.6	90.00	0.0	61.6	61.6	60.5	1.13	54.603			
400.0	400.0	402.0	402.0	0.8	0.8	90.00	0.0	61.6	61.6	60.0	1.58	39.047	CC, ES		
500.0	500.0	502.0	502.0	1.0	1.0	162.45	0.0	61.6	63.3	61.3	2.02	31.299			
600.0	599.8	601.8	601.8	1.2	1.2	163.74	0.0	61.6	68.3	65.8	2.46	27.720			
700.0	699.5	701.5	701.5	1.5	1.5	165.52	0.0	61.6	76.7	73.8	2.91	26.364			
800.0	798.7	800.7	800.7	1.7	1.7	167.44	0.0	61.6	88.4	85.0	3.36	26.337			
900.0	897.9	899.9	899.9	2.0	1.9	169.01	0.0	61.6	100.9	97.1	3.80	26.531			
1,000.0	997.1	999.1	999.1	2.3	2.1	170.25	0.0	61.6	113.5	109.2	4.25	26.678			
1,100.0	1,096.3	1,098.3	1,098.3	2.6	2.4	171.23	0.0	61.6	126.1	121.4	4.71	26.791			
1,200.0	1,195.4	1,197.4	1,197.4	2.9	2.6	172.03	0.0	61.6	138.7	133.6	5.16	26.881			
1,300.0	1,294.6	1,296.6	1,296.6	3.3	2.8	172.71	0.0	61.6	151.4	145.8	5.62	26.955			
1,400.0	1,393.8	1,395.8	1,395.8	3.6	3.0	173.27	0.0	61.6	164.1	158.0	6.07	27.015			
1,500.0	1,493.0	1,495.0	1,495.0	3.9	3.2	173.76	0.0	61.6	176.8	170.3	6.53	27.066			
1,600.0	1,592.2	1,594.2	1,594.2	4.2	3.5	174.18	0.0	61.6	189.5	182.5	6.99	27.108			
1,700.0	1,691.3	1,693.3	1,693.3	4.5	3.7	174.55	0.0	61.6	202.3	194.8	7.45	27.145			
1,800.0	1,790.5	1,792.5	1,792.5	4.9	3.9	174.87	0.0	61.6	215.0	207.1	7.91	27.177			
1,900.0	1,889.7	1,891.7	1,891.7	5.2	4.1	175.16	0.0	61.6	227.7	219.4	8.37	27.204			
2,000.0	1,988.9	1,990.9	1,990.9	5.5	4.4	175.41	0.0	61.6	240.5	231.7	8.83	27.228			
2,100.0	2,088.1	2,090.1	2,090.1	5.8	4.6	175.65	0.0	61.6	253.2	243.9	9.29	27.250			
2,200.0	2,187.2	2,189.2	2,189.2	6.2	4.8	175.85	0.0	61.6	266.0	256.2	9.75	27.269			
2,300.0	2,286.4	2,288.4	2,288.4	6.5	5.0	176.04	0.0	61.6	278.7	268.5	10.22	27.286			
2,400.0	2,385.6	2,387.6	2,387.6	6.8	5.3	176.22	0.0	61.6	291.5	280.8	10.68	27.301			
2,500.0	2,484.8	2,486.8	2,486.8	7.2	5.5	176.38	0.0	61.6	304.3	293.1	11.14	27.315			
2,600.0	2,583.9	2,585.2	2,585.2	7.5	5.7	176.29	1.4	61.6	316.7	305.1	11.61	27.291			
2,700.0	2,683.1	2,690.1	2,689.9	7.8	5.9	175.59	6.3	61.7	328.4	316.3	12.07	27.203			
2,800.0	2,782.3	2,791.7	2,791.2	8.1	6.2	174.34	14.8	61.9	339.4	326.8	12.54	27.059			
2,900.0	2,881.5	2,892.1	2,890.9	8.5	6.4	172.66	26.6	62.1	349.9	336.9	13.02	26.878			
3,000.0	2,980.7	2,991.0	2,989.0	8.8	6.6	170.98	38.8	62.3	360.7	347.2	13.51	26.704			
3,100.0	3,079.8	3,089.9	3,087.1	9.1	6.9	169.40	51.1	62.5	371.7	357.7	14.00	26.544			
3,200.0	3,179.0	3,188.7	3,185.3	9.5	7.1	167.91	63.4	62.7	383.0	368.5	14.51	26.395			
3,300.0	3,278.2	3,287.6	3,283.4	9.8	7.4	166.51	75.7	62.9	394.5	379.5	15.02	26.258			
3,400.0	3,377.4	3,386.5	3,381.5	10.1	7.6	165.19	87.9	63.1	406.2	390.7	15.55	26.131			
3,500.0	3,476.6	3,485.4	3,479.6	10.4	7.9	163.94	100.2	63.3	418.2	402.1	16.08	26.013			
3,600.0	3,575.7	3,584.3	3,577.7	10.8	8.1	162.76	112.5	63.5	430.3	413.7	16.61	25.905			
3,700.0	3,674.9	3,683.1	3,675.8	11.1	8.4	161.64	124.8	63.7	442.6	425.5	17.15	25.805			
3,800.0	3,774.1	3,782.0	3,773.9	11.4	8.7	160.59	137.0	63.9	455.1	437.4	17.70	25.712			
3,900.0	3,873.3	3,880.9	3,872.1	11.8	8.9	159.59	149.3	64.1	467.7	449.5	18.25	25.627			
4,000.0	3,972.5	3,980.1	3,970.5	12.1	9.2	158.65	161.5	64.3	480.5	461.7	18.80	25.558			
4,100.0	4,071.6	4,080.5	4,070.4	12.4	9.4	158.06	171.3	64.5	493.1	473.8	19.29	25.565			
4,200.0	4,170.8	4,181.2	4,170.9	12.7	9.6	157.89	177.6	64.6	505.5	485.8	19.74	25.602			
4,300.0	4,270.0	4,281.9	4,271.6	13.1	9.8	158.12	180.4	64.6	517.6	497.4	20.17	25.662			
4,400.0	4,369.2	4,381.5	4,371.2	13.4	10.0	158.62	180.5	64.6	529.5	508.9	20.59	25.719			
4,500.0	4,468.3	4,480.7	4,470.3	13.7	10.2	159.12	180.5	64.6	541.4	520.4	21.03	25.750			
4,600.0	4,567.5	4,579.9	4,569.5	14.1	10.4	159.59	180.5	64.6	553.4	532.0	21.47	25.776			
4,700.0	4,666.7	4,679.0	4,668.7	14.4	10.6	160.04	180.5	64.6	565.4	543.5	21.92	25.801			
4,800.0	4,765.9	4,778.2	4,767.9	14.7	10.8	160.47	180.5	64.6	577.5	555.1	22.36	25.826			
4,900.0	4,865.1	4,877.4	4,867.1	15.0	11.0	160.90	180.5	64.6	589.4	566.6	22.81	25.841			
5,000.0	4,964.6	4,976.9	4,966.6	15.3	11.3	161.28	180.5	64.6	598.8	575.6	23.23	25.783			
5,100.0	5,064.4	5,076.7	5,066.4	15.4	11.5	161.51	180.5	64.6	605.0	581.3	23.62	25.616			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,164.3	5,176.6	5,166.3	15.6	11.7	161.62	180.5	64.6	607.8	583.8	23.98	25.345			
5,300.0	5,264.3	5,276.6	5,266.3	15.7	11.9	89.66	180.5	64.6	608.0	583.6	24.36	24.957			
5,400.0	5,364.3	5,376.6	5,366.3	15.9	12.1	89.66	180.5	64.6	608.0	583.2	24.77	24.547			
5,500.0	5,464.3	5,476.6	5,466.3	16.1	12.3	89.66	180.5	64.6	608.0	582.8	25.18	24.149			
5,600.0	5,564.3	5,576.6	5,566.3	16.2	12.6	89.66	180.5	64.6	608.0	582.4	25.59	23.762			
5,700.0	5,664.3	5,676.6	5,666.3	16.4	12.8	89.66	180.5	64.6	608.0	582.0	26.00	23.386			
5,800.0	5,764.3	5,776.6	5,766.3	16.5	13.0	89.66	180.5	64.6	608.0	581.6	26.41	23.021			
5,900.0	5,864.3	5,876.6	5,866.3	16.7	13.2	89.66	180.5	64.6	608.0	581.2	26.82	22.667			
6,000.0	5,964.3	5,976.6	5,966.3	16.9	13.4	89.66	180.5	64.6	608.0	580.8	27.24	22.322			
6,100.0	6,064.3	6,076.6	6,066.3	17.0	13.6	89.66	180.5	64.6	608.0	580.4	27.65	21.986			
6,200.0	6,164.3	6,176.6	6,166.3	17.2	13.9	89.66	180.5	64.6	608.0	579.9	28.07	21.660			
6,300.0	6,264.3	6,276.6	6,266.3	17.4	14.1	89.66	180.5	64.6	608.0	579.5	28.49	21.342			
6,400.0	6,364.3	6,376.6	6,366.3	17.6	14.3	89.66	180.5	64.6	608.0	579.1	28.91	21.033			
6,500.0	6,464.3	6,476.6	6,466.3	17.7	14.5	89.66	180.5	64.6	608.0	578.7	29.33	20.733			
6,600.0	6,564.3	6,576.6	6,566.3	17.9	14.7	89.66	180.5	64.6	608.0	578.3	29.75	20.440			
6,700.0	6,664.3	6,676.6	6,666.3	18.1	14.9	89.66	180.5	64.6	608.0	577.8	30.17	20.154			
6,751.6	6,716.0	6,728.3	6,718.0	18.2	15.1	-90.39	180.5	64.6	608.0	577.6	30.38	20.010			
6,800.0	6,764.3	6,776.6	6,766.2	18.2	15.2	-90.34	180.0	64.6	608.0	577.4	30.58	19.885			
6,900.0	6,863.2	6,875.9	6,864.5	18.4	15.3	-90.33	166.4	64.8	608.2	577.3	30.83	19.728			
7,000.0	6,957.6	6,975.4	6,958.5	18.4	15.3	-90.31	134.4	65.1	608.5	577.6	30.96	19.652			
7,100.0	7,044.2	7,074.8	7,044.7	18.5	15.4	-90.28	85.1	65.7	609.1	578.0	31.07	19.602			
7,200.0	7,119.6	7,174.4	7,120.0	18.5	15.5	-90.23	20.3	66.4	609.8	578.5	31.26	19.509			
7,300.0	7,181.2	7,274.0	7,181.7	18.6	15.7	-90.18	-57.7	67.3	610.7	579.0	31.64	19.301			
7,400.0	7,226.6	7,373.7	7,227.5	18.8	16.0	-90.12	-146.2	68.2	611.7	579.3	32.32	18.925			
7,500.0	7,254.2	7,473.5	7,255.7	19.1	16.5	-90.06	-241.8	69.3	612.7	579.4	33.36	18.369			
7,600.0	7,263.1	7,573.5	7,265.1	19.6	17.2	-90.00	-341.1	70.4	613.8	579.1	34.74	17.671			
7,700.0	7,262.6	7,673.5	7,264.6	20.3	18.1	-90.00	-441.1	71.5	614.9	578.5	36.47	16.861			
7,800.0	7,262.1	7,773.5	7,264.1	21.2	19.1	-90.00	-541.1	72.6	616.0	577.5	38.49	16.004			
7,900.0	7,261.6	7,873.5	7,263.7	22.2	20.3	-90.00	-641.1	73.7	617.1	576.4	40.78	15.135			
8,000.0	7,261.2	7,973.4	7,263.2	23.3	21.5	-90.00	-741.0	74.8	618.3	575.0	43.28	14.286			
8,100.0	7,260.7	8,073.4	7,262.7	24.6	22.9	-90.00	-841.0	75.9	619.4	573.4	45.97	13.474			
8,200.0	7,260.2	8,173.4	7,262.2	25.9	24.3	-90.00	-941.0	77.0	620.5	571.7	48.81	12.713			
8,300.0	7,259.8	8,273.4	7,261.8	27.3	25.8	-90.00	-1,041.0	78.2	621.6	569.8	51.78	12.005			
8,400.0	7,259.3	8,373.4	7,261.3	28.8	27.3	-90.00	-1,141.0	79.3	622.7	567.8	54.85	11.352			
8,500.0	7,258.8	8,473.4	7,260.8	30.3	28.9	-90.00	-1,241.0	80.4	623.8	565.8	58.02	10.751			
8,600.0	7,258.3	8,573.4	7,260.4	31.9	30.5	-90.00	-1,341.0	81.5	624.9	563.6	61.26	10.200			
8,700.0	7,257.9	8,673.4	7,259.9	33.5	32.2	-90.00	-1,441.0	82.6	626.0	561.4	64.57	9.695			
8,800.0	7,257.4	8,773.4	7,259.4	35.1	33.9	-90.00	-1,540.9	83.7	627.1	559.2	67.94	9.231			
8,900.0	7,256.9	8,873.4	7,258.9	36.7	35.6	-90.00	-1,640.9	84.8	628.2	556.9	71.35	8.805			
9,000.0	7,256.5	8,973.4	7,258.5	38.4	37.3	-90.00	-1,740.9	85.9	629.3	554.5	74.80	8.414			
9,100.0	7,256.0	9,073.4	7,258.0	40.1	39.1	-90.00	-1,840.9	87.0	630.5	552.2	78.29	8.053			
9,200.0	7,255.5	9,173.4	7,257.5	41.8	40.8	-90.00	-1,940.9	88.1	631.6	549.8	81.81	7.720			
9,300.0	7,255.0	9,273.4	7,257.1	43.6	42.6	-90.00	-2,040.9	89.2	632.7	547.3	85.35	7.412			
9,400.0	7,254.6	9,373.4	7,256.6	45.3	44.4	-90.00	-2,140.9	90.4	633.8	544.9	88.92	7.127			
9,500.0	7,254.1	9,473.4	7,256.1	47.1	46.2	-90.00	-2,240.8	91.5	634.9	542.4	92.51	6.863			
9,600.0	7,253.6	9,573.4	7,255.7	48.9	48.0	-90.00	-2,340.8	92.6	636.0	539.9	96.12	6.616			
9,700.0	7,253.2	9,673.3	7,255.2	50.6	49.8	-90.00	-2,440.8	93.7	637.1	537.4	99.75	6.387			
9,800.0	7,252.7	9,773.3	7,254.7	52.4	51.6	-90.00	-2,540.8	94.8	638.2	534.8	103.39	6.173			
9,900.0	7,252.2	9,873.3	7,254.2	54.2	53.5	-90.00	-2,640.8	95.9	639.3	532.3	107.05	5.972			
10,000.0	7,251.7	9,973.3	7,253.8	56.1	55.3	-90.00	-2,740.8	97.0	640.4	529.7	110.72	5.784			
10,100.0	7,251.3	10,073.3	7,253.3	57.9	57.2	-90.00	-2,840.8	98.1	641.5	527.1	114.40	5.608			
10,200.0	7,250.8	10,173.3	7,252.8	59.7	59.0	-90.00	-2,940.8	99.2	642.6	524.6	118.08	5.442			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	7,250.3	10,273.3	7,252.4	61.5	60.9	-90.00	-3,040.7	100.3	643.8	522.0	121.78	5.286			
10,400.0	7,249.9	10,373.3	7,251.9	63.4	62.7	-90.00	-3,140.7	101.4	644.9	519.4	125.49	5.139			
10,500.0	7,249.4	10,473.3	7,251.4	65.2	64.6	-90.00	-3,240.7	102.5	646.0	516.8	129.20	5.000			
10,600.0	7,248.9	10,573.3	7,250.9	67.0	66.4	-90.00	-3,340.7	103.7	647.1	514.2	132.92	4.868			
10,700.0	7,248.5	10,673.3	7,250.5	68.9	68.3	-90.00	-3,440.7	104.8	648.2	511.5	136.65	4.744			
10,800.0	7,248.0	10,773.3	7,250.0	70.7	70.2	-90.00	-3,540.7	105.9	649.3	508.9	140.38	4.625			
10,900.0	7,247.5	10,873.3	7,249.5	72.6	72.0	-90.00	-3,640.7	107.0	650.4	506.3	144.12	4.513			
11,000.0	7,247.0	10,973.3	7,249.1	74.4	73.9	-90.00	-3,740.6	108.1	651.5	503.7	147.86	4.406			
11,100.0	7,246.6	11,073.3	7,248.6	76.3	75.8	-90.00	-3,840.6	109.2	652.6	501.0	151.61	4.305			
11,200.0	7,246.1	11,173.3	7,248.1	78.2	77.7	-90.00	-3,940.6	110.3	653.7	498.4	155.36	4.208			
11,300.0	7,245.6	11,273.2	7,247.6	80.0	79.5	-90.00	-4,040.6	111.4	654.8	495.7	159.11	4.116			
11,400.0	7,245.2	11,373.2	7,247.2	81.9	81.4	-90.00	-4,140.6	112.5	656.0	493.1	162.87	4.027			
11,500.0	7,244.7	11,473.2	7,246.7	83.8	83.3	-90.00	-4,240.6	113.6	657.1	490.4	166.63	3.943			
11,600.0	7,244.2	11,573.2	7,246.2	85.6	85.2	-90.00	-4,340.6	114.7	658.2	487.8	170.40	3.862			
11,700.0	7,243.7	11,673.2	7,245.8	87.5	87.1	-90.00	-4,440.6	115.9	659.3	485.1	174.17	3.785			
11,800.0	7,243.3	11,773.2	7,245.3	89.4	89.0	-90.00	-4,540.5	117.0	660.4	482.4	177.94	3.711			
11,856.7	7,243.0	11,829.9	7,245.0	90.4	90.0	-90.00	-4,597.3	117.6	661.0	480.9	180.08	3.671 SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	3.0	3.0	0.0	0.0	90.00	0.0	75.6	75.6	75.6	0.00	N/A			
100.0	100.0	103.0	103.0	0.1	0.1	90.00	0.0	75.6	75.6	75.4	0.23	326.606			
200.0	200.0	203.0	203.0	0.3	0.3	90.00	0.0	75.6	75.6	74.9	0.68	111.024			
300.0	300.0	303.0	303.0	0.6	0.6	90.00	0.0	75.6	75.6	74.5	1.13	66.879			
400.0	400.0	403.0	403.0	0.8	0.8	90.00	0.0	75.6	75.6	74.0	1.58	47.853 CC, ES			
500.0	500.0	503.0	503.0	1.0	1.0	162.36	0.0	75.6	77.3	75.2	2.02	38.183			
600.0	599.8	602.8	602.8	1.2	1.2	163.43	0.0	75.6	82.3	79.8	2.47	33.372			
700.0	699.5	702.5	702.5	1.5	1.5	164.96	0.0	75.6	90.7	87.8	2.91	31.146			
800.0	798.7	801.7	801.7	1.7	1.7	166.67	0.0	75.6	102.3	98.9	3.36	30.471			
900.0	897.9	900.9	900.9	2.0	1.9	168.14	0.0	75.6	114.8	111.0	3.81	30.167			
1,000.0	997.1	1,000.1	1,000.1	2.3	2.1	169.32	0.0	75.6	127.3	123.1	4.26	29.917			
1,100.0	1,096.3	1,099.3	1,099.3	2.6	2.4	170.29	0.0	75.6	139.9	135.2	4.71	29.711			
1,200.0	1,195.4	1,198.4	1,198.4	2.9	2.6	171.10	0.0	75.6	152.6	147.4	5.16	29.537			
1,300.0	1,294.6	1,297.6	1,297.6	3.3	2.8	171.79	0.0	75.6	165.2	159.6	5.62	29.389			
1,400.0	1,393.8	1,396.8	1,396.8	3.6	3.0	172.38	0.0	75.6	177.9	171.8	6.08	29.261			
1,500.0	1,493.0	1,492.2	1,492.2	3.9	3.2	172.51	1.0	76.7	191.5	185.0	6.53	29.346			
1,600.0	1,592.2	1,586.8	1,586.7	4.2	3.4	171.94	4.0	80.2	207.2	200.2	6.97	29.716			
1,700.0	1,691.3	1,680.6	1,680.2	4.5	3.7	170.84	9.0	86.0	225.0	217.5	7.42	30.310			
1,800.0	1,790.5	1,774.9	1,773.8	4.9	3.9	169.34	16.0	94.0	244.8	237.0	7.88	31.065			
1,900.0	1,889.7	1,872.5	1,870.8	5.2	4.1	167.89	23.8	102.9	265.4	257.1	8.35	31.782			
2,000.0	1,988.9	1,970.2	1,967.7	5.5	4.4	166.65	31.5	111.8	286.2	277.3	8.83	32.419			
2,100.0	2,088.1	2,067.8	2,064.6	5.8	4.6	165.58	39.3	120.8	307.0	297.7	9.31	32.986			
2,200.0	2,187.2	2,165.5	2,161.6	6.2	4.9	164.64	47.1	129.7	327.9	318.2	9.79	33.491			
2,300.0	2,286.4	2,263.1	2,258.5	6.5	5.2	163.82	54.9	138.6	349.0	338.7	10.28	33.947			
2,400.0	2,385.6	2,360.8	2,355.4	6.8	5.4	163.09	62.6	147.5	370.0	359.3	10.77	34.359			
2,500.0	2,484.8	2,458.4	2,452.4	7.2	5.7	162.44	70.4	156.5	391.1	379.9	11.26	34.732			
2,600.0	2,583.9	2,556.1	2,549.3	7.5	6.0	161.85	78.2	165.4	412.3	400.6	11.76	35.071			
2,700.0	2,683.1	2,653.7	2,646.2	7.8	6.3	161.32	85.9	174.3	433.5	421.3	12.25	35.382			
2,800.0	2,782.3	2,751.4	2,743.2	8.1	6.5	160.84	93.7	183.2	454.7	442.0	12.75	35.667			
2,900.0	2,881.5	2,849.1	2,840.1	8.5	6.8	160.41	101.5	192.1	476.0	462.8	13.25	35.929			
3,000.0	2,980.7	2,946.7	2,937.0	8.8	7.1	160.01	109.3	201.1	497.3	483.5	13.75	36.171			
3,100.0	3,079.8	3,044.4	3,033.9	9.1	7.4	159.64	117.0	210.0	518.6	504.3	14.25	36.395			
3,200.0	3,179.0	3,142.0	3,130.9	9.5	7.7	159.30	124.8	218.9	539.9	525.2	14.75	36.603			
3,300.0	3,278.2	3,239.7	3,227.8	9.8	8.0	158.99	132.6	227.8	561.3	546.0	15.25	36.796			
3,400.0	3,377.4	3,337.3	3,324.7	10.1	8.3	158.70	140.3	236.8	582.6	566.9	15.76	36.977			
3,500.0	3,476.6	3,435.0	3,421.7	10.4	8.6	158.43	148.1	245.7	604.0	587.7	16.26	37.146			
3,600.0	3,575.7	3,532.6	3,518.6	10.8	8.9	158.18	155.9	254.6	625.4	608.6	16.76	37.304			
3,700.0	3,674.9	3,630.3	3,615.5	11.1	9.2	157.95	163.6	263.5	646.8	629.5	17.27	37.452			
3,800.0	3,774.1	3,741.6	3,726.2	11.4	9.5	157.75	171.9	273.0	667.5	649.8	17.78	37.552			
3,900.0	3,873.3	3,862.9	3,847.1	11.8	9.7	157.79	177.8	279.8	685.3	667.0	18.26	37.525			
4,000.0	3,972.5	3,985.4	3,969.5	12.1	9.9	158.08	180.4	282.8	699.7	681.0	18.73	37.358			
4,100.0	4,071.6	4,090.5	4,074.6	12.4	10.1	158.48	180.5	282.9	711.7	692.5	19.17	37.131			
4,200.0	4,170.8	4,189.7	4,173.8	12.7	10.3	158.85	180.5	282.9	723.6	704.0	19.61	36.892			
4,300.0	4,270.0	4,288.8	4,273.0	13.1	10.5	159.21	180.5	282.9	735.6	715.5	20.06	36.661			
4,400.0	4,369.2	4,388.0	4,372.2	13.4	10.7	159.56	180.5	282.9	747.5	727.0	20.51	36.442			
4,500.0	4,468.3	4,487.2	4,471.3	13.7	10.9	159.89	180.5	282.9	759.5	738.6	20.96	36.233			
4,600.0	4,567.5	4,586.4	4,570.5	14.1	11.1	160.22	180.5	282.9	771.6	750.2	21.41	36.033			
4,700.0	4,666.7	4,685.6	4,669.7	14.4	11.3	160.54	180.5	282.9	783.6	761.8	21.86	35.842			
4,800.0	4,765.9	4,784.7	4,768.9	14.7	11.5	160.84	180.5	282.9	795.7	773.4	22.31	35.660			
4,900.0	4,865.1	4,883.9	4,868.1	15.0	11.7	161.16	180.5	282.9	807.7	784.9	22.77	35.466			
5,000.0	4,964.6	4,983.4	4,967.6	15.3	11.9	161.45	180.5	282.9	817.1	793.9	23.21	35.210			
5,100.0	5,064.4	5,083.2	5,067.4	15.4	12.1	161.63	180.5	282.9	823.2	799.6	23.61	34.866			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,164.3	5,183.2	5,167.3	15.6	12.3	161.71	180.5	282.9	826.1	802.1	23.99	34.439			
5,300.0	5,264.3	5,283.2	5,267.3	15.7	12.5	89.75	180.5	282.9	826.3	801.9	24.37	33.907			
5,400.0	5,364.3	5,383.2	5,367.3	15.9	12.7	89.75	180.5	282.9	826.3	801.5	24.77	33.355			
5,500.0	5,464.3	5,483.2	5,467.3	16.1	12.9	89.75	180.5	282.9	826.3	801.1	25.18	32.819			
5,600.0	5,564.3	5,583.2	5,567.3	16.2	13.1	89.75	180.5	282.9	826.3	800.7	25.58	32.298			
5,700.0	5,664.3	5,683.2	5,667.3	16.4	13.3	89.75	180.5	282.9	826.3	800.3	25.99	31.791			
5,800.0	5,764.3	5,783.2	5,767.3	16.5	13.5	89.75	180.5	282.9	826.3	799.9	26.40	31.299			
5,900.0	5,864.3	5,883.2	5,867.3	16.7	13.7	89.75	180.5	282.9	826.3	799.5	26.81	30.820			
6,000.0	5,964.3	5,983.2	5,967.3	16.9	13.9	89.75	180.5	282.9	826.3	799.1	27.22	30.354			
6,100.0	6,064.3	6,083.2	6,067.3	17.0	14.1	89.75	180.5	282.9	826.3	798.6	27.63	29.900			
6,200.0	6,164.3	6,183.2	6,167.3	17.2	14.3	89.75	180.5	282.9	826.3	798.2	28.05	29.459			
6,300.0	6,264.3	6,283.2	6,267.3	17.4	14.6	89.75	180.5	282.9	826.3	797.8	28.46	29.030			
6,400.0	6,364.3	6,383.2	6,367.3	17.6	14.8	89.75	180.5	282.9	826.3	797.4	28.88	28.612			
6,500.0	6,464.3	6,483.2	6,467.3	17.7	15.0	89.75	180.5	282.9	826.3	797.0	29.30	28.205			
6,600.0	6,564.3	6,583.2	6,567.3	17.9	15.2	89.75	180.5	282.9	826.3	796.6	29.71	27.808			
6,700.0	6,664.3	6,683.2	6,667.3	18.1	15.4	89.75	180.5	282.9	826.3	796.1	30.13	27.421			
6,800.0	6,764.3	6,783.3	6,767.5	18.2	15.6	-90.25	180.0	282.9	826.3	795.7	30.54	27.056			
6,900.0	6,863.2	6,884.0	6,867.0	18.4	15.7	-90.24	166.0	282.9	826.3	795.5	30.79	26.835			
7,000.0	6,957.6	6,984.7	6,962.0	18.4	15.8	-90.23	133.2	282.9	826.3	795.3	30.93	26.713			
7,100.0	7,044.2	7,085.3	7,048.9	18.5	15.9	-90.20	82.8	282.9	826.3	795.2	31.04	26.620			
7,200.0	7,119.6	7,185.8	7,124.4	18.5	15.9	-90.17	16.7	282.9	826.3	795.0	31.23	26.459			
7,300.0	7,181.2	7,286.2	7,185.8	18.6	16.0	-90.13	-62.6	282.9	826.3	794.7	31.62	26.135			
7,400.0	7,226.6	7,386.5	7,230.8	18.8	16.3	-90.09	-152.0	282.9	826.3	794.0	32.30	25.579			
7,500.0	7,254.2	7,486.7	7,257.9	19.1	16.8	-90.04	-248.3	282.9	826.3	792.9	33.35	24.778			
7,600.0	7,263.2	7,586.7	7,266.0	19.6	17.4	-89.99	-347.9	282.9	826.3	791.5	34.73	23.788			
7,600.0	7,263.1	7,586.8	7,266.0	19.6	17.4	-90.00	-347.9	282.9	826.3	791.5	34.74	23.788			
7,700.0	7,262.6	7,686.8	7,265.6	20.3	18.3	-90.00	-447.9	282.9	826.3	789.8	36.47	22.659			
7,800.0	7,262.1	7,786.8	7,265.1	21.2	19.3	-90.00	-547.9	282.9	826.3	787.8	38.49	21.466			
7,900.0	7,261.6	7,886.8	7,264.6	22.2	20.5	-90.00	-647.9	282.9	826.3	785.5	40.78	20.262			
8,000.0	7,261.2	7,986.8	7,264.1	23.3	21.7	-90.00	-747.9	282.9	826.3	783.0	43.28	19.089			
8,100.0	7,260.7	8,086.8	7,263.7	24.6	23.1	-90.00	-847.9	282.9	826.3	780.3	45.97	17.973			
8,200.0	7,260.2	8,186.8	7,263.2	25.9	24.5	-90.00	-947.9	282.9	826.3	777.5	48.81	16.927			
8,300.0	7,259.8	8,286.8	7,262.7	27.3	26.0	-90.00	-1,047.9	282.9	826.3	774.5	51.78	15.956			
8,400.0	7,259.3	8,386.8	7,262.3	28.8	27.5	-90.00	-1,147.9	282.9	826.3	771.4	54.86	15.061			
8,500.0	7,258.8	8,486.8	7,261.8	30.3	29.1	-90.00	-1,247.9	282.9	826.3	768.2	58.03	14.240			
8,600.0	7,258.3	8,586.8	7,261.3	31.9	30.7	-90.00	-1,347.9	282.9	826.3	765.0	61.27	13.486			
8,700.0	7,257.9	8,686.8	7,260.8	33.5	32.3	-90.00	-1,447.9	282.9	826.3	761.7	64.57	12.796			
8,800.0	7,257.4	8,786.8	7,260.4	35.1	34.0	-90.00	-1,547.9	282.9	826.3	758.3	67.94	12.162			
8,900.0	7,256.9	8,886.8	7,259.9	36.7	35.7	-90.00	-1,647.9	282.9	826.3	754.9	71.35	11.581			
9,000.0	7,256.5	8,986.8	7,259.4	38.4	37.4	-90.00	-1,747.9	282.9	826.3	751.5	74.80	11.047			
9,100.0	7,256.0	9,086.8	7,259.0	40.1	39.2	-90.00	-1,847.9	282.9	826.3	748.0	78.28	10.555			
9,200.0	7,255.5	9,186.8	7,258.5	41.8	40.9	-90.00	-1,947.9	282.9	826.3	744.5	81.80	10.102			
9,300.0	7,255.0	9,286.8	7,258.0	43.6	42.7	-90.00	-2,047.9	282.9	826.3	740.9	85.34	9.682			
9,400.0	7,254.6	9,386.8	7,257.5	45.3	44.5	-90.00	-2,147.9	282.9	826.3	737.4	88.91	9.294			
9,500.0	7,254.1	9,486.8	7,257.1	47.1	46.3	-90.00	-2,247.9	282.9	826.3	733.8	92.50	8.933			
9,600.0	7,253.6	9,586.8	7,256.6	48.9	48.1	-90.00	-2,347.9	282.9	826.3	730.2	96.10	8.598			
9,700.0	7,253.2	9,686.8	7,256.1	50.6	49.9	-90.00	-2,447.9	282.9	826.3	726.5	99.73	8.285			
9,800.0	7,252.7	9,786.8	7,255.7	52.4	51.7	-90.00	-2,547.9	282.9	826.3	722.9	103.37	7.994			
9,900.0	7,252.2	9,886.8	7,255.2	54.2	53.5	-90.00	-2,647.9	282.9	826.3	719.3	107.02	7.721			
10,000.0	7,251.7	9,986.8	7,254.7	56.1	55.4	-90.00	-2,747.9	282.9	826.3	715.6	110.68	7.465			
10,100.0	7,251.3	10,086.8	7,254.2	57.9	57.2	-90.00	-2,847.9	282.9	826.3	711.9	114.36	7.225			
10,200.0	7,250.8	10,186.8	7,253.8	59.7	59.0	-90.00	-2,947.9	282.9	826.3	708.2	118.04	7.000			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	7,250.3	10,286.8	7,253.3	61.5	60.9	-90.00	-3,047.9	282.9	826.3	704.5	121.74	6.787			
10,400.0	7,249.9	10,386.8	7,252.8	63.4	62.7	-90.00	-3,147.9	282.9	826.3	700.8	125.44	6.587			
10,500.0	7,249.4	10,486.8	7,252.4	65.2	64.6	-90.00	-3,247.9	282.9	826.3	697.1	129.15	6.398			
10,600.0	7,248.9	10,586.8	7,251.9	67.0	66.4	-90.00	-3,347.9	282.9	826.3	693.4	132.86	6.219			
10,700.0	7,248.5	10,686.8	7,251.4	68.9	68.3	-90.00	-3,447.9	282.9	826.3	689.7	136.59	6.049			
10,800.0	7,248.0	10,786.8	7,250.9	70.7	70.2	-90.00	-3,547.9	282.9	826.3	686.0	140.32	5.889			
10,900.0	7,247.5	10,886.8	7,250.5	72.6	72.0	-90.00	-3,647.9	282.9	826.3	682.2	144.05	5.736			
11,000.0	7,247.0	10,986.8	7,250.0	74.4	73.9	-90.00	-3,747.9	282.9	826.3	678.5	147.79	5.591			
11,100.0	7,246.6	11,086.8	7,249.5	76.3	75.8	-90.00	-3,847.9	282.9	826.3	674.7	151.53	5.453			
11,200.0	7,246.1	11,186.8	7,249.1	78.2	77.6	-90.00	-3,947.9	282.9	826.3	671.0	155.28	5.321			
11,300.0	7,245.6	11,286.8	7,248.6	80.0	79.5	-90.00	-4,047.9	282.9	826.3	667.2	159.03	5.196			
11,400.0	7,245.2	11,386.8	7,248.1	81.9	81.4	-90.00	-4,147.9	282.9	826.3	663.5	162.79	5.076			
11,500.0	7,244.7	11,486.8	7,247.6	83.8	83.3	-90.00	-4,247.9	282.9	826.3	659.7	166.55	4.961			
11,600.0	7,244.2	11,586.8	7,247.2	85.6	85.2	-90.00	-4,347.9	282.9	826.3	656.0	170.31	4.852			
11,700.0	7,243.7	11,686.8	7,246.7	87.5	87.0	-90.00	-4,447.9	282.9	826.3	652.2	174.07	4.747			
11,800.0	7,243.3	11,786.8	7,246.2	89.4	88.9	-90.00	-4,547.9	282.9	826.3	648.4	177.84	4.646			
11,829.5	7,243.1	11,816.2	7,246.1	89.9	89.4	-90.00	-4,577.3	282.9	826.3	647.4	178.90	4.619			
11,856.7	7,243.0	11,836.2	7,246.0	90.4	89.7	-90.00	-4,597.3	282.9	826.3	646.6	179.71	4.598 SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	3.0	3.0	0.0	0.0	90.00	0.0	89.6	89.6	89.6	0.00	N/A			
100.0	100.0	103.0	103.0	0.1	0.1	90.00	0.0	89.6	89.6	89.4	0.23	387.088			
200.0	200.0	203.0	203.0	0.3	0.3	90.00	0.0	89.6	89.6	88.9	0.68	131.584			
300.0	300.0	303.0	303.0	0.6	0.6	90.00	0.0	89.6	89.6	88.5	1.13	79.265			
400.0	400.0	403.0	403.0	0.8	0.8	90.00	0.0	89.6	89.6	88.0	1.58	56.714	CC, ES		
500.0	500.0	503.0	503.0	1.0	1.0	162.30	0.0	89.6	91.3	89.3	2.02	45.102			
600.0	599.8	602.8	602.8	1.2	1.2	163.22	0.0	89.6	96.3	93.8	2.47	39.050			
700.0	699.5	702.5	702.5	1.5	1.5	164.55	0.0	89.6	104.7	101.7	2.91	35.949			
800.0	798.7	801.7	801.7	1.7	1.7	166.09	0.0	89.6	116.3	112.9	3.36	34.627			
900.0	897.9	900.9	900.9	2.0	1.9	167.46	0.0	89.6	128.7	124.9	3.81	33.823			
1,000.0	997.1	1,000.1	1,000.1	2.3	2.1	168.58	0.0	89.6	141.2	137.0	4.26	33.177			
1,100.0	1,096.3	1,099.3	1,099.3	2.6	2.4	169.53	0.0	89.6	153.8	149.1	4.71	32.648			
1,200.0	1,195.4	1,198.4	1,198.4	2.9	2.6	170.33	0.0	89.6	166.4	161.2	5.17	32.209			
1,300.0	1,294.6	1,292.9	1,292.9	3.3	2.8	170.70	0.7	91.0	180.3	174.7	5.61	32.148			
1,400.0	1,393.8	1,386.5	1,386.4	3.6	3.0	170.47	2.8	95.0	196.8	190.8	6.05	32.539			
1,500.0	1,493.0	1,479.2	1,478.8	3.9	3.2	169.81	6.2	101.7	216.0	209.5	6.49	33.266			
1,600.0	1,592.2	1,571.1	1,570.0	4.2	3.4	168.84	11.0	111.0	237.7	230.8	6.94	34.249			
1,700.0	1,691.3	1,668.3	1,666.5	4.5	3.7	167.81	16.6	122.0	260.7	253.3	7.40	35.228			
1,800.0	1,790.5	1,765.5	1,762.9	4.9	3.9	166.94	22.3	133.0	283.8	275.9	7.86	36.091			
1,900.0	1,889.7	1,862.7	1,859.3	5.2	4.2	166.21	28.0	144.1	306.9	298.6	8.33	36.845			
2,000.0	1,988.9	1,959.9	1,955.7	5.5	4.4	165.57	33.6	155.1	330.1	321.3	8.80	37.511			
2,100.0	2,088.1	2,057.2	2,052.2	5.8	4.7	165.02	39.3	166.1	353.3	344.0	9.27	38.093			
2,200.0	2,187.2	2,154.4	2,148.6	6.2	5.0	164.54	45.0	177.2	376.5	366.8	9.75	38.618			
2,300.0	2,286.4	2,251.6	2,245.0	6.5	5.3	164.12	50.6	188.2	399.8	389.5	10.23	39.087			
2,400.0	2,385.6	2,348.8	2,341.4	6.8	5.6	163.74	56.3	199.2	423.0	412.3	10.71	39.509			
2,500.0	2,484.8	2,446.0	2,437.9	7.2	5.9	163.40	62.0	210.3	446.3	435.1	11.19	39.891			
2,600.0	2,583.9	2,543.3	2,534.3	7.5	6.2	163.09	67.7	221.3	469.6	458.0	11.67	40.238			
2,700.0	2,683.1	2,640.5	2,630.7	7.8	6.5	162.81	73.3	232.3	492.9	480.8	12.16	40.554			
2,800.0	2,782.3	2,737.7	2,727.1	8.1	6.8	162.56	79.0	243.4	516.3	503.6	12.64	40.844			
2,900.0	2,881.5	2,834.9	2,823.6	8.5	7.1	162.33	84.7	254.4	539.6	526.5	13.13	41.110			
3,000.0	2,980.7	2,932.1	2,920.0	8.8	7.4	162.12	90.3	265.4	562.9	549.3	13.61	41.355			
3,100.0	3,079.8	3,029.4	3,016.4	9.1	7.7	161.93	96.0	276.5	586.3	572.2	14.10	41.581			
3,200.0	3,179.0	3,126.6	3,112.8	9.5	8.0	161.75	101.7	287.5	609.6	595.0	14.59	41.791			
3,300.0	3,278.2	3,223.8	3,209.2	9.8	8.3	161.58	107.3	298.5	633.0	617.9	15.08	41.986			
3,400.0	3,377.4	3,321.0	3,305.7	10.1	8.6	161.42	113.0	309.6	656.3	640.8	15.56	42.168			
3,500.0	3,476.6	3,418.2	3,402.1	10.4	8.9	161.28	118.7	320.6	679.7	663.6	16.05	42.337			
3,600.0	3,575.7	3,515.5	3,498.5	10.8	9.2	161.15	124.3	331.6	703.1	686.5	16.54	42.496			
3,700.0	3,674.9	3,612.7	3,594.9	11.1	9.5	161.02	130.0	342.7	726.4	709.4	17.03	42.645			
3,800.0	3,774.1	3,709.9	3,691.4	11.4	9.8	160.90	135.7	353.7	749.8	732.3	17.53	42.784			
3,900.0	3,873.3	3,807.1	3,787.8	11.8	10.1	160.79	141.4	364.8	773.2	755.2	18.02	42.915			
4,000.0	3,972.5	3,904.3	3,884.2	12.1	10.4	160.69	147.0	375.8	796.6	778.0	18.51	43.039			
4,100.0	4,071.6	4,001.5	3,980.6	12.4	10.7	160.59	152.7	386.8	819.9	800.9	19.00	43.156			
4,200.0	4,170.8	4,098.8	4,077.1	12.7	11.1	160.50	158.4	397.9	843.3	823.8	19.49	43.266			
4,300.0	4,270.0	4,196.0	4,173.5	13.1	11.4	160.41	164.0	408.9	866.7	846.7	19.98	43.370			
4,400.0	4,369.2	4,293.2	4,269.9	13.4	11.7	160.33	169.7	419.9	890.1	869.6	20.48	43.469			
4,500.0	4,468.3	4,403.4	4,379.2	13.7	12.0	160.25	176.0	432.1	913.2	892.3	20.99	43.511			
4,600.0	4,567.5	4,541.5	4,516.8	14.1	12.3	160.29	181.5	442.9	933.1	911.6	21.50	43.396			
4,700.0	4,666.7	4,681.7	4,656.9	14.4	12.6	160.51	184.0	447.8	948.7	926.7	22.00	43.121			
4,800.0	4,765.9	4,793.7	4,768.9	14.7	12.7	160.79	184.2	448.1	961.0	938.6	22.45	42.805			
4,900.0	4,865.1	4,892.9	4,868.1	15.0	12.9	161.06	184.2	448.1	972.9	950.0	22.91	42.472			
5,000.0	4,964.6	4,992.4	4,967.6	15.3	13.1	161.31	184.2	448.1	982.4	959.0	23.35	42.075			
5,100.0	5,064.4	5,092.2	5,067.4	15.4	13.3	161.47	184.2	448.1	988.5	964.7	23.76	41.607			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,164.3	5,192.1	5,167.3	15.6	13.5	161.54	184.2	448.1	991.3	967.2	24.14	41.071			
5,300.0	5,264.3	5,292.1	5,267.3	15.7	13.6	89.58	184.2	448.1	991.6	967.0	24.52	40.446			
5,400.0	5,364.3	5,392.1	5,367.3	15.9	13.8	89.58	184.2	448.1	991.6	966.6	24.91	39.803			
5,500.0	5,464.3	5,492.1	5,467.3	16.1	14.0	89.58	184.2	448.1	991.6	966.2	25.31	39.178			
5,600.0	5,564.3	5,592.1	5,567.3	16.2	14.2	89.58	184.2	448.1	991.6	965.8	25.71	38.569			
5,700.0	5,664.3	5,692.1	5,667.3	16.4	14.4	89.58	184.2	448.1	991.6	965.4	26.11	37.976			
5,800.0	5,764.3	5,792.1	5,767.3	16.5	14.6	89.58	184.2	448.1	991.6	965.0	26.51	37.400			
5,900.0	5,864.3	5,892.1	5,867.3	16.7	14.8	89.58	184.2	448.1	991.6	964.6	26.92	36.838			
6,000.0	5,964.3	5,992.1	5,967.3	16.9	15.0	89.58	184.2	448.1	991.6	964.2	27.32	36.292			
6,100.0	6,064.3	6,092.1	6,067.3	17.0	15.2	89.58	184.2	448.1	991.6	963.8	27.73	35.759			
6,200.0	6,164.3	6,192.1	6,167.3	17.2	15.3	89.58	184.2	448.1	991.6	963.4	28.14	35.240			
6,300.0	6,264.3	6,292.1	6,267.3	17.4	15.5	89.58	184.2	448.1	991.6	963.0	28.55	34.735			
6,400.0	6,364.3	6,392.1	6,367.3	17.6	15.7	89.58	184.2	448.1	991.6	962.6	28.96	34.243			
6,500.0	6,464.3	6,492.1	6,467.3	17.7	15.9	89.58	184.2	448.1	991.6	962.2	29.37	33.763			
6,600.0	6,564.3	6,592.1	6,567.3	17.9	16.1	89.58	184.2	448.1	991.6	961.8	29.78	33.295			
6,700.0	6,664.3	6,692.1	6,667.3	18.1	16.3	89.58	184.2	448.1	991.6	961.4	30.19	32.838			
6,719.2	6,683.5	6,711.4	6,686.5	18.1	16.4	-90.43	184.2	448.1	991.6	961.3	30.27	32.753			
6,800.0	6,764.3	6,792.4	6,767.6	18.2	16.5	-90.42	183.7	448.1	991.6	961.0	30.60	32.404			
6,900.0	6,863.2	6,893.9	6,867.9	18.4	16.6	-90.42	169.7	448.1	991.6	960.7	30.85	32.139			
7,000.0	6,957.6	6,995.3	6,963.6	18.4	16.7	-90.40	136.6	448.1	991.6	960.6	30.99	31.993			
7,100.0	7,044.2	7,096.6	7,050.9	18.5	16.8	-90.37	85.6	448.1	991.5	960.4	31.10	31.882			
7,200.0	7,119.6	7,197.7	7,126.7	18.5	16.8	-90.32	18.8	448.1	991.5	960.3	31.29	31.692			
7,300.0	7,181.2	7,298.7	7,188.0	18.6	16.9	-90.26	-61.2	448.1	991.5	959.9	31.67	31.306			
7,400.0	7,226.6	7,399.4	7,232.7	18.8	17.1	-90.19	-151.3	448.1	991.5	959.2	32.36	30.640			
7,500.0	7,254.2	7,499.9	7,259.2	19.1	17.5	-90.12	-248.1	448.1	991.5	958.1	33.40	29.683			
7,600.0	7,263.1	7,600.2	7,266.8	19.6	18.1	-90.04	-347.9	448.1	991.5	956.7	34.80	28.495			
7,700.0	7,262.6	7,700.2	7,266.3	20.3	18.9	-90.04	-447.9	448.1	991.5	955.0	36.52	27.152			
7,800.0	7,262.1	7,800.2	7,265.8	21.2	19.9	-90.04	-547.9	448.1	991.5	953.0	38.54	25.725			
7,900.0	7,261.6	7,900.2	7,265.3	22.2	21.0	-90.04	-647.9	448.1	991.5	950.7	40.83	24.285			
8,000.0	7,261.2	8,000.2	7,264.8	23.3	22.2	-90.04	-747.9	448.1	991.5	948.2	43.33	22.882			
8,100.0	7,260.7	8,100.2	7,264.3	24.6	23.5	-90.04	-847.9	448.1	991.5	945.5	46.02	21.546			
8,200.0	7,260.2	8,200.2	7,263.8	25.9	24.9	-90.03	-947.9	448.1	991.5	942.7	48.86	20.293			
8,300.0	7,259.8	8,300.2	7,263.3	27.3	26.4	-90.03	-1,047.9	448.1	991.5	939.7	51.83	19.131			
8,400.0	7,259.3	8,400.2	7,262.9	28.8	27.9	-90.03	-1,147.9	448.1	991.5	936.6	54.90	18.060			
8,500.0	7,258.8	8,500.2	7,262.4	30.3	29.5	-90.03	-1,247.9	448.1	991.5	933.5	58.07	17.075			
8,600.0	7,258.3	8,600.2	7,261.9	31.9	31.1	-90.03	-1,347.9	448.1	991.5	930.2	61.31	16.173			
8,700.0	7,257.9	8,700.2	7,261.4	33.5	32.7	-90.03	-1,447.9	448.1	991.5	926.9	64.61	15.346			
8,800.0	7,257.4	8,800.2	7,260.9	35.1	34.3	-90.03	-1,547.9	448.1	991.5	923.6	67.97	14.587			
8,900.0	7,256.9	8,900.2	7,260.4	36.7	36.0	-90.03	-1,647.9	448.1	991.5	920.1	71.38	13.890			
9,000.0	7,256.5	9,000.2	7,259.9	38.4	37.7	-90.03	-1,747.9	448.1	991.5	916.7	74.83	13.250			
9,100.0	7,256.0	9,100.2	7,259.4	40.1	39.5	-90.03	-1,847.9	448.1	991.5	913.2	78.32	12.661			
9,200.0	7,255.5	9,200.2	7,258.9	41.8	41.2	-90.02	-1,947.9	448.1	991.5	909.7	81.83	12.117			
9,300.0	7,255.0	9,300.2	7,258.5	43.6	43.0	-90.02	-2,047.9	448.1	991.5	906.2	85.37	11.614			
9,400.0	7,254.6	9,400.2	7,258.0	45.3	44.7	-90.02	-2,147.9	448.1	991.5	902.6	88.94	11.148			
9,500.0	7,254.1	9,500.2	7,257.5	47.1	46.5	-90.02	-2,247.9	448.1	991.5	899.0	92.53	10.716			
9,600.0	7,253.6	9,600.2	7,257.0	48.9	48.3	-90.02	-2,347.9	448.1	991.5	895.4	96.13	10.314			
9,700.0	7,253.2	9,700.2	7,256.5	50.6	50.1	-90.02	-2,447.9	448.1	991.5	891.8	99.76	9.939			
9,800.0	7,252.7	9,800.2	7,256.0	52.4	51.9	-90.02	-2,547.9	448.1	991.5	888.1	103.39	9.590			
9,900.0	7,252.2	9,900.2	7,255.5	54.2	53.8	-90.02	-2,647.9	448.1	991.5	884.5	107.05	9.263			
10,000.0	7,251.7	10,000.2	7,255.0	56.1	55.6	-90.02	-2,747.9	448.1	991.5	880.8	110.71	8.956			
10,100.0	7,251.3	10,100.2	7,254.5	57.9	57.4	-90.02	-2,847.9	448.1	991.5	877.1	114.38	8.668			
10,200.0	7,250.8	10,200.2	7,254.1	59.7	59.2	-90.01	-2,947.9	448.1	991.5	873.5	118.07	8.398			

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

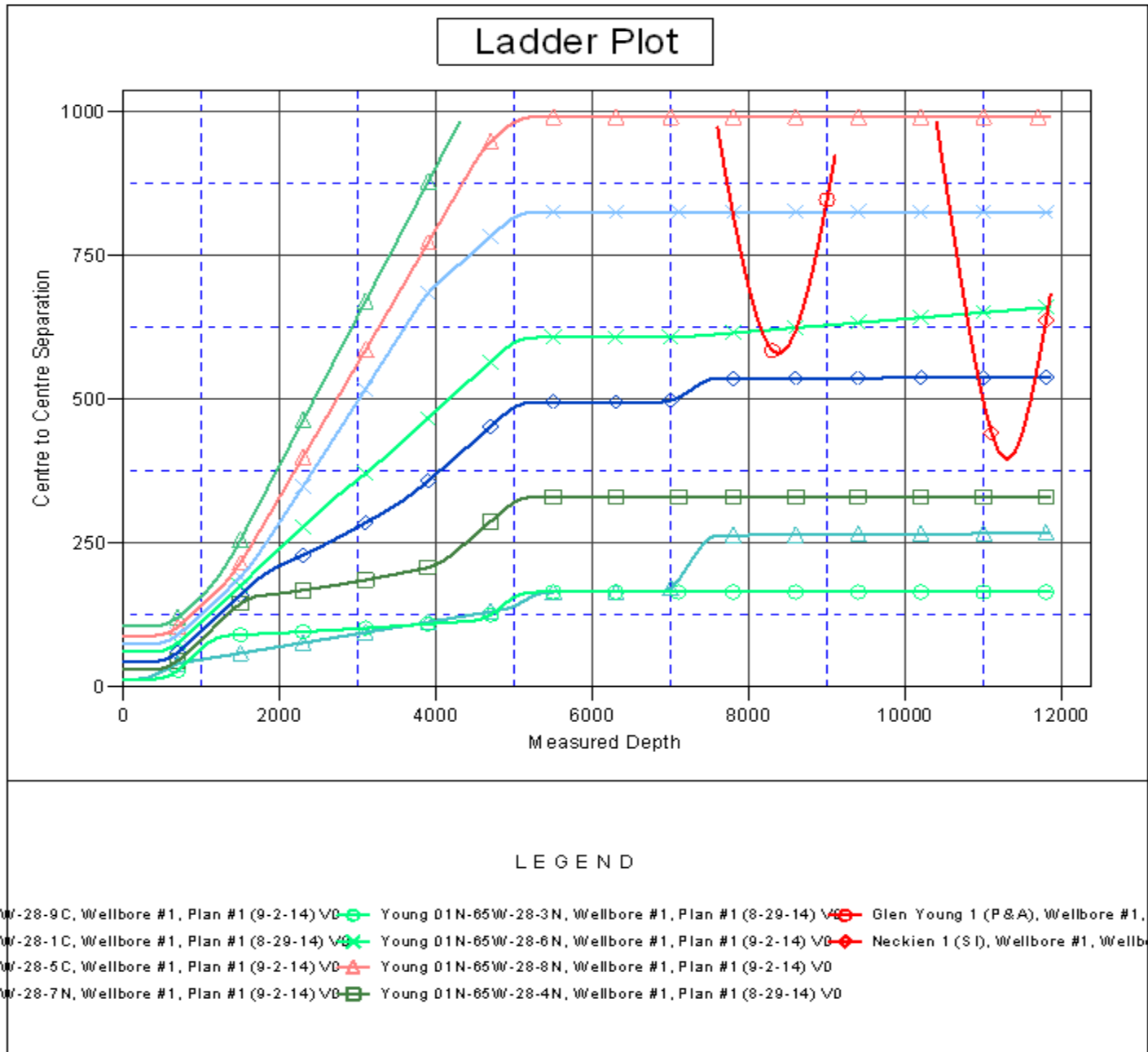
Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,300.0	7,250.3	10,300.2	7,253.6	61.5	61.1	-90.01	-3,047.9	448.1	991.5	869.8	121.76	8.143			
10,400.0	7,249.9	10,400.2	7,253.1	63.4	62.9	-90.01	-3,147.9	448.1	991.5	866.1	125.46	7.903			
10,500.0	7,249.4	10,500.2	7,252.6	65.2	64.8	-90.01	-3,247.9	448.1	991.5	862.4	129.17	7.676			
10,600.0	7,248.9	10,600.2	7,252.1	67.0	66.6	-90.01	-3,347.9	448.1	991.5	858.6	132.89	7.461			
10,700.0	7,248.5	10,700.2	7,251.6	68.9	68.5	-90.01	-3,447.9	448.1	991.5	854.9	136.61	7.258			
10,800.0	7,248.0	10,800.2	7,251.1	70.7	70.3	-90.01	-3,547.9	448.1	991.5	851.2	140.34	7.065			
10,900.0	7,247.5	10,900.2	7,250.6	72.6	72.2	-90.01	-3,647.9	448.1	991.5	847.5	144.07	6.882			
11,000.0	7,247.0	11,000.2	7,250.2	74.4	74.1	-90.01	-3,747.9	448.1	991.5	843.7	147.81	6.708			
11,100.0	7,246.6	11,100.2	7,249.7	76.3	75.9	-90.01	-3,847.9	448.1	991.5	840.0	151.56	6.542			
11,200.0	7,246.1	11,200.2	7,249.2	78.2	77.8	-90.00	-3,947.9	448.1	991.5	836.2	155.30	6.384			
11,300.0	7,245.6	11,300.2	7,248.7	80.0	79.7	-90.00	-4,047.9	448.1	991.5	832.5	159.06	6.234			
11,400.0	7,245.2	11,400.2	7,248.2	81.9	81.6	-90.00	-4,147.9	448.1	991.5	828.7	162.81	6.090			
11,500.0	7,244.7	11,500.2	7,247.7	83.8	83.4	-90.00	-4,247.9	448.1	991.5	825.0	166.57	5.953			
11,600.0	7,244.2	11,600.2	7,247.2	85.6	85.3	-90.00	-4,347.9	448.1	991.5	821.2	170.33	5.821			
11,640.0	7,244.0	11,640.2	7,247.0	86.4	86.1	-90.00	-4,387.9	448.1	991.5	819.7	171.84	5.770			
11,700.0	7,243.7	11,700.2	7,246.7	87.5	87.2	-90.00	-4,447.9	448.1	991.5	817.4	174.10	5.695			
11,800.0	7,243.3	11,800.2	7,246.2	89.4	89.1	-90.00	-4,547.9	448.1	991.5	813.7	177.86	5.575			
11,829.5	7,243.1	11,829.7	7,246.1	89.9	89.5	-90.00	-4,577.3	448.1	991.5	812.7	178.87	5.543			
11,856.7	7,243.0	11,849.6	7,246.0	90.4	89.8	-90.00	-4,597.3	448.1	991.6	811.9	179.69	5.518 SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	4.0	4.0	0.0	0.0	90.00	0.0	106.4	106.4	106.4	0.00	N/A			
100.0	100.0	104.0	104.0	0.1	0.1	90.00	0.0	106.4	106.4	106.2	0.23	455.247			
200.0	200.0	204.0	204.0	0.3	0.3	90.00	0.0	106.4	106.4	105.7	0.68	155.742			
300.0	300.0	304.0	304.0	0.6	0.6	90.00	0.0	106.4	106.4	105.3	1.13	93.940			
400.0	400.0	404.0	404.0	0.8	0.8	90.00	0.0	106.4	106.4	104.8	1.58	67.252 CC, ES			
500.0	500.0	504.0	504.0	1.0	1.0	162.24	0.0	106.4	108.1	106.1	2.03	53.346			
600.0	599.8	603.8	603.8	1.2	1.2	163.02	0.0	106.4	113.1	110.6	2.47	45.823			
700.0	699.5	703.5	703.5	1.5	1.5	164.18	0.0	106.4	121.4	118.5	2.91	41.684			
800.0	798.7	802.7	802.7	1.7	1.7	165.55	0.0	106.4	133.0	129.7	3.36	39.591			
900.0	897.9	901.9	901.9	2.0	1.9	166.81	0.0	106.4	145.5	141.6	3.81	38.193			
1,000.0	997.1	1,000.0	1,000.0	2.3	2.1	167.85	0.0	106.4	157.9	153.7	4.26	37.096			
1,100.0	1,096.3	1,095.2	1,095.2	2.6	2.3	168.48	0.5	107.9	171.9	167.3	4.70	36.599 SF			
1,200.0	1,195.4	1,188.5	1,188.3	2.9	2.5	168.58	2.1	112.2	188.9	183.7	5.14	36.775			
1,300.0	1,294.6	1,280.8	1,280.3	3.3	2.7	168.28	4.7	119.3	208.6	203.1	5.58	37.416			
1,400.0	1,393.8	1,371.9	1,370.9	3.6	3.0	167.71	8.2	129.1	231.2	225.2	6.02	38.411			
1,500.0	1,493.0	1,464.3	1,462.3	3.9	3.2	166.95	12.7	141.5	256.4	249.9	6.47	39.609			
1,600.0	1,592.2	1,560.8	1,557.7	4.2	3.5	166.25	17.7	155.1	282.2	275.3	6.93	40.719			
1,700.0	1,691.3	1,657.4	1,653.2	4.5	3.8	165.66	22.6	168.6	308.1	300.7	7.39	41.673			
1,800.0	1,790.5	1,753.9	1,748.7	4.9	4.1	165.17	27.5	182.2	333.9	326.1	7.86	42.496			
1,900.0	1,889.7	1,850.5	1,844.2	5.2	4.4	164.74	32.5	195.7	359.8	351.5	8.33	43.206			
2,000.0	1,988.9	1,947.1	1,939.6	5.5	4.7	164.37	37.4	209.3	385.7	376.9	8.80	43.833			
2,100.0	2,088.1	2,043.6	2,035.1	5.8	5.0	164.05	42.3	222.9	411.6	402.3	9.27	44.385			
2,200.0	2,187.2	2,140.2	2,130.6	6.2	5.3	163.77	47.2	236.4	437.5	427.8	9.75	44.875			
2,300.0	2,286.4	2,236.7	2,226.1	6.5	5.6	163.52	52.2	250.0	463.5	453.2	10.23	45.312			
2,400.0	2,385.6	2,333.3	2,321.6	6.8	5.9	163.29	57.1	263.5	489.4	478.7	10.71	45.704			
2,500.0	2,484.8	2,429.9	2,417.0	7.2	6.3	163.09	62.0	277.1	515.4	504.2	11.19	46.058			
2,600.0	2,583.9	2,526.4	2,512.5	7.5	6.6	162.91	66.9	290.7	541.3	529.6	11.67	46.379			
2,700.0	2,683.1	2,623.0	2,608.0	7.8	6.9	162.74	71.9	304.2	567.3	555.1	12.15	46.670			
2,800.0	2,782.3	2,719.5	2,703.5	8.1	7.3	162.59	76.8	317.8	593.2	580.6	12.64	46.936			
2,900.0	2,881.5	2,816.1	2,798.9	8.5	7.6	162.45	81.7	331.3	619.2	606.1	13.12	47.180			
3,000.0	2,980.7	2,912.7	2,894.4	8.8	7.9	162.32	86.7	344.9	645.2	631.5	13.61	47.404			
3,100.0	3,079.8	3,009.2	2,989.9	9.1	8.3	162.21	91.6	358.5	671.1	657.0	14.10	47.611			
3,200.0	3,179.0	3,105.8	3,085.4	9.5	8.6	162.10	96.5	372.0	697.1	682.5	14.58	47.802			
3,300.0	3,278.2	3,202.3	3,180.8	9.8	8.9	162.00	101.4	385.6	723.1	708.0	15.07	47.980			
3,400.0	3,377.4	3,298.9	3,276.3	10.1	9.3	161.90	106.4	399.1	749.1	733.5	15.56	48.144			
3,500.0	3,476.6	3,395.5	3,371.8	10.4	9.6	161.81	111.3	412.7	775.0	759.0	16.05	48.298			
3,600.0	3,575.7	3,492.0	3,467.3	10.8	9.9	161.73	116.2	426.3	801.0	784.5	16.54	48.441			
3,700.0	3,674.9	3,588.6	3,562.7	11.1	10.3	161.66	121.1	439.8	827.0	810.0	17.03	48.575			
3,800.0	3,774.1	3,685.1	3,658.2	11.4	10.6	161.58	126.1	453.4	853.0	835.5	17.51	48.701			
3,900.0	3,873.3	3,781.7	3,753.7	11.8	11.0	161.51	131.0	467.0	879.0	861.0	18.00	48.819			
4,000.0	3,972.5	3,878.3	3,849.2	12.1	11.3	161.45	135.9	480.5	904.9	886.5	18.49	48.930			
4,100.0	4,071.6	3,974.8	3,944.6	12.4	11.7	161.39	140.8	494.1	930.9	911.9	18.99	49.034			
4,200.0	4,170.8	4,071.4	4,040.1	12.7	12.0	161.33	145.8	507.6	956.9	937.4	19.48	49.133			
4,300.0	4,270.0	4,167.9	4,135.6	13.1	12.3	161.28	150.7	521.2	982.9	962.9	19.97	49.226			

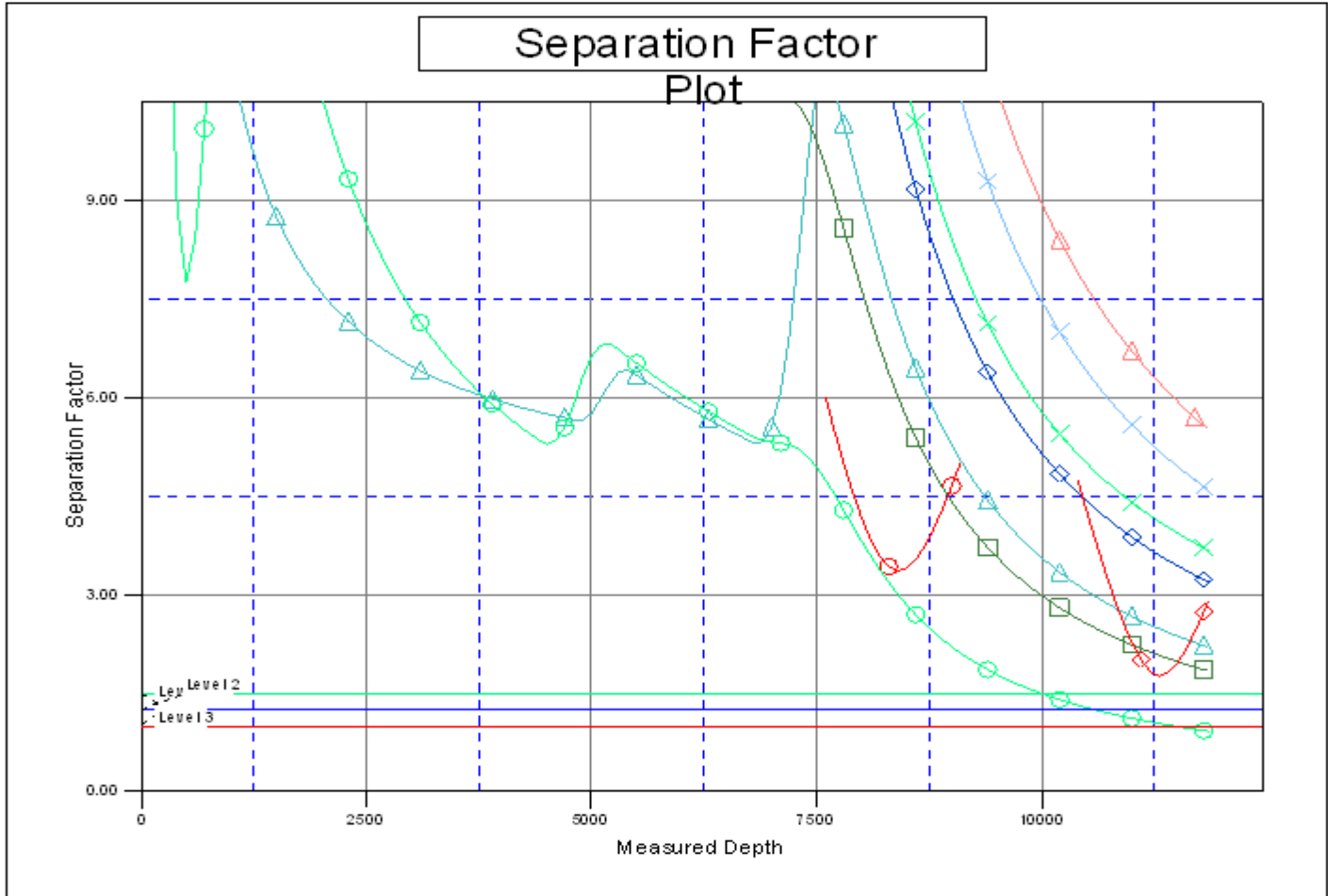
Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5083.0ft (Original Well Elev) Coordinates are relative to: Young 01N-65W-28-2N
 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-28-2N
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5083.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5083.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-2N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (8-29-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5083.0ft (Original Well Elev) Coordinates are relative to: Young 01N-65W-28-2N
 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°



LEGEND

- 5W-28-9C, Wellbore #1, Plan #1 (9-2-14) VD ● Young 01N-65W-28-3N, Wellbore #1, Plan #1 (8-29-14) VD ● Glen Young 1 (P&A), Wellbore #1, Wellbore #1, Plan #1 (8-29-14) VD ●
- 5W-28-1C, Wellbore #1, Plan #1 (8-29-14) VD ▲ Young 01N-65W-28-6N, Wellbore #1, Plan #1 (9-2-14) VD ◆ Neckien 1 (S), Wellbore #1, Wellbore #1, Plan #1 (9-2-14) VD ▲
- 5W-28-5C, Wellbore #1, Plan #1 (9-2-14) VD ▲ Young 01N-65W-28-8N, Wellbore #1, Plan #1 (9-2-14) VD ▲
- 5W-28-7N, Wellbore #1, Plan #1 (9-2-14) VD ■ Young 01N-65W-28-4N, Wellbore #1, Plan #1 (8-29-14) VD ■