

Verdad Oil & Gas Corporation

Well Name: **Young 01N-65W-28-9C**

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

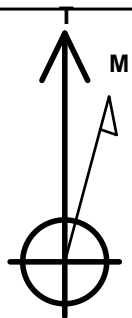
Ground Elevation: 5074.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1254521.37	3234080.07	40.029020	-104.664090	

Original Well Elev WELL @ 5087.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 230'FNL & 1260'FEL	1.0	0.0	0.0	Point
BHL 460'FSL & 730'FEL	7458.0	-4597.3	507.0	Point



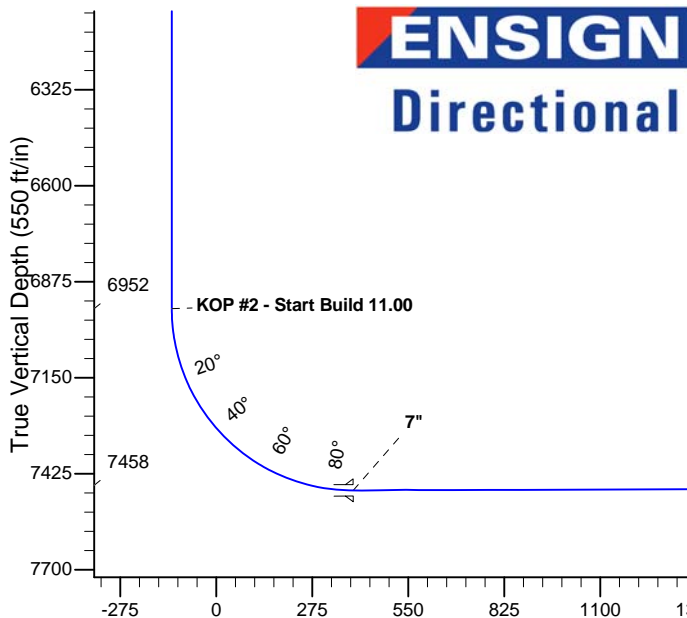
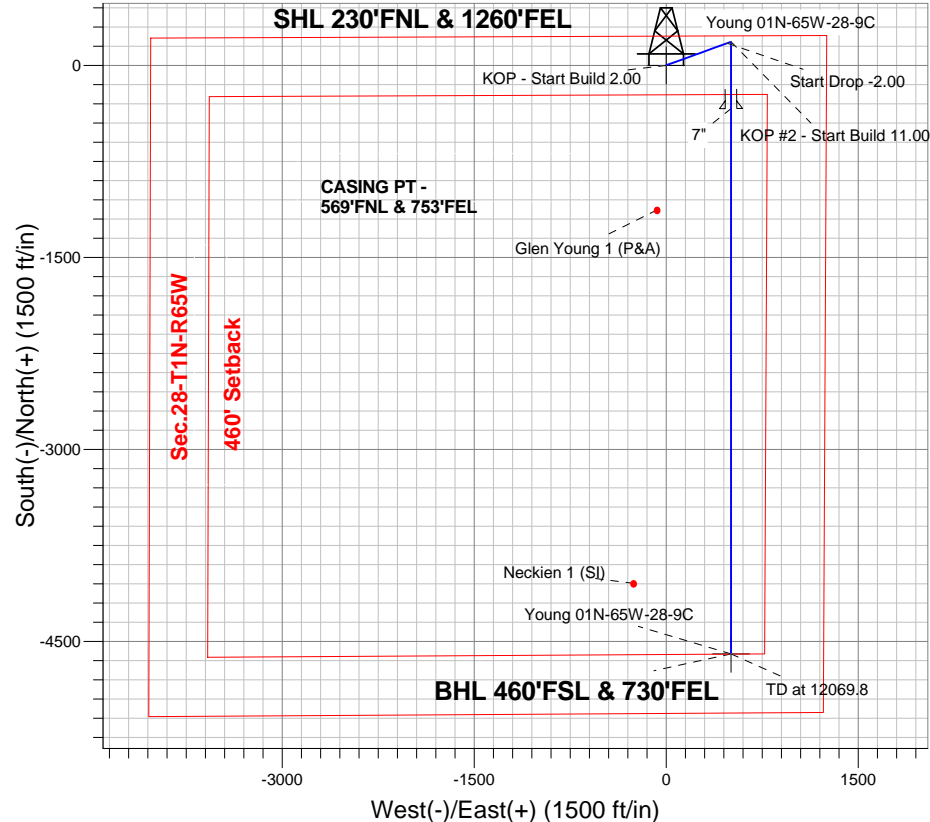
Young 01N-65W-28 Pad Sec.28-T1N-R65W
 Young 01N-65W-28-9C
 Plan #1 (9-2-14)

Azimuths to True North
 Magnetic North: 8.35°

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

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP - Start Build 2.00
4572.0	4609.3	Start Drop -2.00
6952.0	6990.9	KOP #2 - Start Build 11.00
7458.0	12069.8	TD at 12069.8



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1429.7	8.59	70.03	1428.0	11.0	30.2	2.00	70.03	-7.6	
4	4609.3	8.59	70.03	4572.0	173.2	476.7	0.00	0.00	-119.9	
5	5038.9	0.00	0.00	5000.0	184.2	507.0	2.00	180.00	-127.5	
6	6990.9	0.00	0.00	6952.0	184.2	507.0	0.00	0.00	-127.5	
7	7810.9	90.20	180.00	7472.9	-338.5	507.0	11.00	180.00	392.0	
8	12069.8	90.20	180.00	7458.0	-4597.3	507.0	0.00	0.00	4625.2	BHL 460'FSL & 730'FEL

BHL 460'FSL & 730'FEL

TD at 12069.8

Vertical Section at 173.71° (550 ft/in)



Verdad Oil & Gas Corporation

SEC.28-T1N-R65W

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

Young 01N-65W-28-9C

Wellbore #1

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

Standard Planning Report

11 September, 2014

Database:	Landmark	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	North Reference:	True
Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-2-14)		

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

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

Well	Young 01N-65W-28-9C					
Well Position	+N/-S	0.0 ft	Northing:	1,254,521.37 ft	Latitude:	40.029020
	+E/-W	120.4 ft	Easting:	3,234,080.07 ft	Longitude:	-104.664090
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,074.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/2/2014	8.35	66.66	52,606

Design	Plan #1 (9-2-14)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	173.71

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,429.7	8.59	70.03	1,428.0	11.0	30.2	2.00	2.00	0.00	70.03	
4,609.3	8.59	70.03	4,572.0	173.2	476.7	0.00	0.00	0.00	0.00	
5,038.9	0.00	0.00	5,000.0	184.2	507.0	2.00	-2.00	0.00	180.00	
6,990.9	0.00	0.00	6,952.0	184.2	507.0	0.00	0.00	0.00	0.00	
7,810.9	90.20	180.00	7,472.9	-338.5	507.0	11.00	11.00	0.00	180.00	
12,069.8	90.20	180.00	7,458.0	-4,597.3	507.0	0.00	0.00	0.00	0.00	BHL 460'FSL & 73C

Database:	Landmark	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	North Reference:	True
Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-2-14)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 2.00									
1,100.0	2.00	70.03	1,100.0	0.6	1.6	-0.4	2.00	2.00	0.00
1,200.0	4.00	70.03	1,199.8	2.4	6.6	-1.6	2.00	2.00	0.00
1,300.0	6.00	70.03	1,299.5	5.4	14.8	-3.7	2.00	2.00	0.00
1,400.0	8.00	70.03	1,398.7	9.5	26.2	-6.6	2.00	2.00	0.00
1,429.7	8.59	70.03	1,428.0	11.0	30.2	-7.6	2.00	2.00	0.00
1,500.0	8.59	70.03	1,497.6	14.6	40.1	-10.1	0.00	0.00	0.00
1,600.0	8.59	70.03	1,596.5	19.7	54.1	-13.6	0.00	0.00	0.00
1,700.0	8.59	70.03	1,695.4	24.8	68.2	-17.2	0.00	0.00	0.00
1,800.0	8.59	70.03	1,794.2	29.9	82.2	-20.7	0.00	0.00	0.00
1,900.0	8.59	70.03	1,893.1	35.0	96.3	-24.2	0.00	0.00	0.00
2,000.0	8.59	70.03	1,992.0	40.1	110.3	-27.7	0.00	0.00	0.00
2,100.0	8.59	70.03	2,090.9	45.2	124.4	-31.3	0.00	0.00	0.00
2,200.0	8.59	70.03	2,189.7	50.3	138.4	-34.8	0.00	0.00	0.00
2,300.0	8.59	70.03	2,288.6	55.4	152.5	-38.3	0.00	0.00	0.00
2,400.0	8.59	70.03	2,387.5	60.5	166.5	-41.9	0.00	0.00	0.00
2,500.0	8.59	70.03	2,486.4	65.6	180.5	-45.4	0.00	0.00	0.00
2,600.0	8.59	70.03	2,585.3	70.7	194.6	-48.9	0.00	0.00	0.00
2,700.0	8.59	70.03	2,684.1	75.8	208.6	-52.5	0.00	0.00	0.00
2,800.0	8.59	70.03	2,783.0	80.9	222.7	-56.0	0.00	0.00	0.00
2,900.0	8.59	70.03	2,881.9	86.0	236.7	-59.5	0.00	0.00	0.00
3,000.0	8.59	70.03	2,980.8	91.1	250.8	-63.1	0.00	0.00	0.00
3,100.0	8.59	70.03	3,079.6	96.2	264.8	-66.6	0.00	0.00	0.00
3,200.0	8.59	70.03	3,178.5	101.3	278.8	-70.1	0.00	0.00	0.00
3,300.0	8.59	70.03	3,277.4	106.4	292.9	-73.7	0.00	0.00	0.00
3,400.0	8.59	70.03	3,376.3	111.5	306.9	-77.2	0.00	0.00	0.00
3,500.0	8.59	70.03	3,475.2	116.6	321.0	-80.7	0.00	0.00	0.00
3,600.0	8.59	70.03	3,574.0	121.7	335.0	-84.3	0.00	0.00	0.00
3,700.0	8.59	70.03	3,672.9	126.8	349.1	-87.8	0.00	0.00	0.00
3,800.0	8.59	70.03	3,771.8	131.9	363.1	-91.3	0.00	0.00	0.00
3,900.0	8.59	70.03	3,870.7	137.0	377.1	-94.9	0.00	0.00	0.00
4,000.0	8.59	70.03	3,969.5	142.1	391.2	-98.4	0.00	0.00	0.00
4,100.0	8.59	70.03	4,068.4	147.2	405.2	-101.9	0.00	0.00	0.00
4,200.0	8.59	70.03	4,167.3	152.3	419.3	-105.5	0.00	0.00	0.00
4,300.0	8.59	70.03	4,266.2	157.4	433.3	-109.0	0.00	0.00	0.00
4,400.0	8.59	70.03	4,365.0	162.5	447.4	-112.5	0.00	0.00	0.00
4,500.0	8.59	70.03	4,463.9	167.6	461.4	-116.1	0.00	0.00	0.00
4,600.0	8.59	70.03	4,562.8	172.7	475.4	-119.6	0.00	0.00	0.00
4,609.3	8.59	70.03	4,572.0	173.2	476.8	-119.9	0.00	0.00	0.00
Start Drop -2.00									
4,700.0	6.78	70.03	4,661.9	177.4	488.2	-122.8	2.00	-2.00	0.00
4,800.0	4.78	70.03	4,761.4	180.8	497.6	-125.2	2.00	-2.00	0.00
4,900.0	2.78	70.03	4,861.1	183.1	503.8	-126.7	2.00	-2.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	North Reference:	True
Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-2-14)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.0	0.78	70.03	4,961.1	184.1	506.7	-127.5	2.00	-2.00	0.00
5,038.9	0.00	0.00	5,000.0	184.2	507.0	-127.5	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,061.1	184.2	507.0	-127.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,161.1	184.2	507.0	-127.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,261.1	184.2	507.0	-127.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,361.1	184.2	507.0	-127.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,461.1	184.2	507.0	-127.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,561.1	184.2	507.0	-127.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,661.1	184.2	507.0	-127.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,761.1	184.2	507.0	-127.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,861.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,961.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,061.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,161.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,261.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,361.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,461.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,561.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,661.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,761.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,861.1	184.2	507.0	-127.5	0.00	0.00	0.00
6,990.9	0.00	0.00	6,952.0	184.2	507.0	-127.5	0.00	0.00	0.00
KOP #2 - Start Build 11.00									
7,000.0	1.00	180.00	6,961.1	184.1	507.0	-127.4	10.99	10.99	0.00
7,100.0	12.00	180.00	7,060.3	172.8	507.0	-116.2	11.00	11.00	0.00
7,200.0	23.00	180.00	7,155.5	142.8	507.0	-86.4	11.00	11.00	0.00
7,300.0	34.00	180.00	7,243.3	95.2	507.0	-39.0	11.00	11.00	0.00
7,400.0	45.00	180.00	7,320.3	31.6	507.0	24.1	11.00	11.00	0.00
7,500.0	56.00	180.00	7,383.8	-45.4	507.0	100.7	11.00	11.00	0.00
7,600.0	67.00	180.00	7,431.5	-133.2	507.0	187.9	11.00	11.00	0.00
7,700.0	78.00	180.00	7,461.5	-228.4	507.0	282.6	11.00	11.00	0.00
7,800.0	89.00	180.00	7,472.8	-327.6	507.0	381.2	11.00	11.00	0.00
7,810.9	90.20	180.00	7,472.9	-338.5	507.0	392.0	11.00	11.00	0.00
7"									
7,900.0	90.20	180.00	7,472.6	-427.6	507.0	480.6	0.00	0.00	0.00
8,000.0	90.20	180.00	7,472.2	-527.6	507.0	580.0	0.00	0.00	0.00
8,100.0	90.20	180.00	7,471.9	-627.6	507.0	679.4	0.00	0.00	0.00
8,200.0	90.20	180.00	7,471.5	-727.6	507.0	778.8	0.00	0.00	0.00
8,300.0	90.20	180.00	7,471.2	-827.6	507.0	878.2	0.00	0.00	0.00
8,400.0	90.20	180.00	7,470.8	-927.6	507.0	977.6	0.00	0.00	0.00
8,500.0	90.20	180.00	7,470.5	-1,027.6	507.0	1,077.0	0.00	0.00	0.00
8,600.0	90.20	180.00	7,470.1	-1,127.6	507.0	1,176.4	0.00	0.00	0.00
8,700.0	90.20	180.00	7,469.8	-1,227.6	507.0	1,275.7	0.00	0.00	0.00
8,800.0	90.20	180.00	7,469.4	-1,327.6	507.0	1,375.1	0.00	0.00	0.00
8,900.0	90.20	180.00	7,469.1	-1,427.6	507.0	1,474.5	0.00	0.00	0.00
9,000.0	90.20	180.00	7,468.7	-1,527.6	507.0	1,573.9	0.00	0.00	0.00
9,100.0	90.20	180.00	7,468.4	-1,627.6	507.0	1,673.3	0.00	0.00	0.00
9,200.0	90.20	180.00	7,468.0	-1,727.6	507.0	1,772.7	0.00	0.00	0.00
9,300.0	90.20	180.00	7,467.7	-1,827.6	507.0	1,872.1	0.00	0.00	0.00
9,400.0	90.20	180.00	7,467.3	-1,927.6	507.0	1,971.5	0.00	0.00	0.00
9,500.0	90.20	180.00	7,467.0	-2,027.6	507.0	2,070.9	0.00	0.00	0.00
9,600.0	90.20	180.00	7,466.6	-2,127.6	507.0	2,170.3	0.00	0.00	0.00
9,700.0	90.20	180.00	7,466.3	-2,227.6	507.0	2,269.7	0.00	0.00	0.00
9,800.0	90.20	180.00	7,465.9	-2,327.6	507.0	2,369.1	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	North Reference:	True
Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-2-14)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,900.0	90.20	180.00	7,465.6	-2,427.6	507.0	2,468.5	0.00	0.00	0.00	
10,000.0	90.20	180.00	7,465.2	-2,527.6	507.0	2,567.9	0.00	0.00	0.00	
10,100.0	90.20	180.00	7,464.9	-2,627.6	507.0	2,667.3	0.00	0.00	0.00	
10,200.0	90.20	180.00	7,464.5	-2,727.6	507.0	2,766.7	0.00	0.00	0.00	
10,300.0	90.20	180.00	7,464.2	-2,827.6	507.0	2,866.1	0.00	0.00	0.00	
10,400.0	90.20	180.00	7,463.8	-2,927.6	507.0	2,965.5	0.00	0.00	0.00	
10,500.0	90.20	180.00	7,463.5	-3,027.6	507.0	3,064.9	0.00	0.00	0.00	
10,600.0	90.20	180.00	7,463.1	-3,127.6	507.0	3,164.3	0.00	0.00	0.00	
10,700.0	90.20	180.00	7,462.8	-3,227.6	507.0	3,263.7	0.00	0.00	0.00	
10,800.0	90.20	180.00	7,462.4	-3,327.6	507.0	3,363.1	0.00	0.00	0.00	
10,900.0	90.20	180.00	7,462.1	-3,427.6	507.0	3,462.5	0.00	0.00	0.00	
11,000.0	90.20	180.00	7,461.7	-3,527.6	507.0	3,561.9	0.00	0.00	0.00	
11,100.0	90.20	180.00	7,461.4	-3,627.6	507.0	3,661.3	0.00	0.00	0.00	
11,200.0	90.20	180.00	7,461.0	-3,727.6	507.0	3,760.7	0.00	0.00	0.00	
11,300.0	90.20	180.00	7,460.7	-3,827.6	507.0	3,860.1	0.00	0.00	0.00	
11,400.0	90.20	180.00	7,460.3	-3,927.6	507.0	3,959.5	0.00	0.00	0.00	
11,500.0	90.20	180.00	7,460.0	-4,027.6	507.0	4,058.9	0.00	0.00	0.00	
11,600.0	90.20	180.00	7,459.6	-4,127.6	507.0	4,158.3	0.00	0.00	0.00	
11,700.0	90.20	180.00	7,459.3	-4,227.6	507.0	4,257.7	0.00	0.00	0.00	
11,800.0	90.20	180.00	7,458.9	-4,327.6	507.0	4,357.1	0.00	0.00	0.00	
11,900.0	90.20	180.00	7,458.6	-4,427.6	507.0	4,456.4	0.00	0.00	0.00	
12,000.0	90.20	180.00	7,458.2	-4,527.6	507.0	4,555.8	0.00	0.00	0.00	
12,069.8	90.20	180.00	7,458.0	-4,597.3	507.0	4,625.2	0.00	0.00	0.00	

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
SHL 230'FNL & 1260' - hit/miss target - Shape - Point	0.00	0.00	1.0	0.0	0.0	1,254,521.38	3,234,080.07	40.029020	-104.664090	
BHL 460'FSL & 730'F - plan hits target center - Point	0.00	0.00	7,458.0	-4,597.3	507.0	1,249,929.22	3,234,630.34	40.016400	-104.662280	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
7,810.9	7,472.9	7"	7	7-1/2		

Database:	Landmark	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Project:	SEC.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	North Reference:	True
Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (9-2-14)		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,000.0	1,000.0	0.0	0.0	KOP - Start Build 2.00
4,609.3	4,572.0	11.0	30.2	Start Drop -2.00
6,990.9	6,952.0	173.2	476.7	KOP #2 - Start Build 11.00
12,069.8	7,458.0	184.2	507.0	TD at 12069.8



Directional

Verdad Oil & Gas Corporation

SEC.28-T1N-R65W

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

Young 01N-65W-28-9C

Wellbore #1

Plan #1 (9-2-14)

Anticollision Report

11 September, 2014

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (9-2-14)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	9/11/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,069.8	Plan #1 (9-2-14) (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	8,601.7	7,443.1	577.0	400.7	3.273	CC, ES, SF
Neckien 1 (SI) - Wellbore #1 - Wellbore #1	11,519.7	7,426.9	761.9	533.7	3.340	CC, ES
Neckien 1 (SI) - Wellbore #1 - Wellbore #1	11,600.0	7,426.6	766.1	536.5	3.336	SF
Young 01N-65W-28 Pad Sec.28-T1N-R65W						
Young 01N-65W-28-1C - Wellbore #1 - Plan #1 (8-29-14)	200.0	196.0	120.4	119.8	180.998	CC, ES
Young 01N-65W-28-1C - Wellbore #1 - Plan #1 (8-29-14)	1,000.0	971.4	204.0	199.3	43.516	SF
Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14)	400.0	396.0	106.4	104.9	68.025	CC, ES
Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14)	1,000.0	979.2	156.6	152.2	35.655	SF
Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14)	1,000.0	997.0	92.4	88.2	21.674	CC, ES
Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14)	1,100.0	1,094.1	95.5	90.8	20.363	SF
Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14)	1,000.0	997.0	75.6	71.3	17.733	CC, ES
Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14)	12,069.8	11,835.2	852.8	678.0	4.880	SF
Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)	1,000.0	998.0	61.6	57.3	14.442	CC, ES
Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14)	12,069.8	12,035.8	661.0	481.2	3.676	SF
Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14)	1,000.0	998.0	44.8	40.5	10.503	CC, ES
Young 01N-65W-28-6N - Wellbore #1 - Plan #1 (9-2-14)	12,069.8	11,834.5	538.8	371.5	3.221	SF
Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14)	1,000.0	999.0	30.8	26.5	7.217	CC, ES
Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14)	12,069.8	11,835.2	392.1	237.3	2.532	SF
Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14)	1,000.0	999.0	16.8	12.5	3.937	CC, ES
Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14)	12,069.8	11,848.6	268.0	146.0	2.196	SF

Offset Design	Existing Wells Sec.28-T1N-R65W - Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1											Offset Site Error:	0.0 ft
Survey Program:	8100-UNKNOWN											Offset Well Error:	0.0 ft
Reference	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	
7,800.0	7,472.8	7,445.8	7,445.8	19.5	148.9	88.61	-1,129.3	-70.0	987.8	821.3	166.49	5.933	
7,900.0	7,472.6	7,445.6	7,445.6	20.2	148.9	90.24	-1,129.3	-70.0	908.5	741.1	167.37	5.428	
8,000.0	7,472.2	7,445.2	7,445.2	21.0	148.9	90.21	-1,129.3	-70.0	833.7	665.3	168.33	4.953	
8,100.0	7,471.9	7,444.9	7,444.9	22.0	148.9	90.17	-1,129.3	-70.0	764.6	595.2	169.41	4.513	
8,200.0	7,471.5	7,444.5	7,444.5	23.1	148.9	90.14	-1,129.3	-70.0	703.1	532.4	170.62	4.121	
8,300.0	7,471.2	7,444.2	7,444.2	24.3	148.9	90.10	-1,129.3	-70.0	651.1	479.2	171.91	3.787	
8,400.0	7,470.8	7,443.8	7,443.8	25.7	148.9	90.07	-1,129.3	-70.0	611.2	437.9	173.29	3.527	

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

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													Existing Wells Sec.28-T1N-R65W - Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 ft
Survey Program: 8100-UNKNOWN														Offset Well Error:	0.0 ft
Reference		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			
8,500.0	7,470.5	7,443.5	7,443.5	27.0	148.9	90.04	-1,129.3	-70.0	585.9	411.2	174.74	3.353			
8,600.0	7,470.1	7,443.1	7,443.1	28.5	148.9	90.00	-1,129.3	-70.0	577.0	400.8	176.24	3.274			
8,601.7	7,470.1	7,443.1	7,443.1	28.5	148.9	90.00	-1,129.3	-70.0	577.0	400.7	176.26	3.273	CC, ES, SF		
8,700.0	7,469.8	7,442.8	7,442.8	30.0	148.9	89.97	-1,129.3	-70.0	585.3	407.5	177.79	3.292			
8,800.0	7,469.4	7,442.4	7,442.4	31.5	148.8	89.93	-1,129.3	-70.0	610.1	430.7	179.38	3.401			
8,900.0	7,469.1	7,442.1	7,442.1	33.1	148.8	89.90	-1,129.3	-70.0	649.5	468.5	181.00	3.588			
9,000.0	7,468.7	7,441.7	7,441.7	34.7	148.8	89.86	-1,129.3	-70.0	701.1	518.4	182.66	3.838			
9,100.0	7,468.4	7,441.4	7,441.4	36.4	148.8	89.83	-1,129.3	-70.0	762.4	578.0	184.34	4.136			
9,200.0	7,468.0	7,441.0	7,441.0	38.1	148.8	89.79	-1,129.3	-70.0	831.2	645.1	186.04	4.468			
9,300.0	7,467.7	7,440.7	7,440.7	39.8	148.8	89.76	-1,129.3	-70.0	905.8	718.1	187.76	4.824			
9,400.0	7,467.3	7,440.3	7,440.3	41.5	148.8	89.72	-1,129.3	-70.0	985.0	795.5	189.50	5.198			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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		
10,900.0	7,462.1	7,429.1	7,429.1	68.5	148.6	90.16	-4,047.2	-254.9	982.1	765.5	216.58	4.534		
11,000.0	7,461.7	7,428.7	7,428.7	70.3	148.6	90.14	-4,047.2	-254.9	922.2	703.8	218.44	4.222		
11,100.0	7,461.4	7,428.4	7,428.4	72.2	148.6	90.11	-4,047.2	-254.9	869.8	649.5	220.29	3.948		
11,200.0	7,461.0	7,428.0	7,428.0	74.0	148.6	90.08	-4,047.2	-254.9	826.2	604.1	222.15	3.719		
11,300.0	7,460.7	7,427.7	7,427.7	75.9	148.6	90.06	-4,047.2	-254.9	792.9	568.9	224.01	3.540		
11,400.0	7,460.3	7,427.3	7,427.3	77.7	148.5	90.03	-4,047.2	-254.9	771.2	545.3	225.88	3.414		
11,500.0	7,460.0	7,427.0	7,427.0	79.6	148.5	90.01	-4,047.2	-254.9	762.1	534.4	227.74	3.346		
11,519.7	7,459.9	7,426.9	7,426.9	80.0	148.5	90.00	-4,047.2	-254.9	761.9	533.7	228.11	3.340	CC, ES	
11,600.0	7,459.6	7,426.6	7,426.6	81.5	148.5	89.98	-4,047.2	-254.9	766.1	536.5	229.61	3.336	SF	
11,700.0	7,459.3	7,426.3	7,426.3	83.3	148.5	89.95	-4,047.2	-254.9	782.9	551.4	231.48	3.382		
11,800.0	7,458.9	7,425.9	7,425.9	85.2	148.5	89.93	-4,047.2	-254.9	811.8	578.4	233.35	3.479		
11,900.0	7,458.6	7,425.6	7,425.6	87.1	148.5	89.90	-4,047.2	-254.9	851.5	616.3	235.22	3.620		
12,000.0	7,458.2	7,425.2	7,425.2	89.0	148.5	89.87	-4,047.2	-254.9	900.6	663.5	237.10	3.799		
12,069.8	7,458.0	7,425.0	7,425.0	90.3	148.5	89.86	-4,047.2	-254.9	939.7	701.3	238.40	3.942		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	0.0	0.0	0.0	0.0	-90.00	0.0	-120.4	120.5						
100.0	100.0	96.0	96.0	0.1	0.1	-90.00	0.0	-120.4	120.4	120.2	0.22	546.668			
200.0	200.0	196.0	196.0	0.3	0.3	-90.00	0.0	-120.4	120.4	119.8	0.67	180.998	CC, ES		
300.0	300.0	292.2	292.2	0.6	0.5	-89.83	0.4	-121.9	121.9	120.8	1.10	110.867			
400.0	400.0	388.1	387.9	0.8	0.8	-89.31	1.5	-126.4	126.7	125.1	1.54	82.248			
500.0	500.0	483.5	483.0	1.0	1.0	-88.52	3.5	-134.0	134.7	132.7	2.00	67.277			
600.0	600.0	578.3	577.2	1.2	1.3	-87.56	6.2	-144.6	145.9	143.4	2.49	58.575			
700.0	700.0	674.7	672.6	1.5	1.6	-86.53	9.6	-158.1	160.1	157.1	3.02	53.050			
800.0	800.0	773.6	770.4	1.7	1.9	-85.62	13.2	-172.3	174.7	171.1	3.57	48.950			
900.0	900.0	872.5	868.2	1.9	2.2	-84.84	16.8	-186.5	189.4	185.2	4.13	45.883			
1,000.0	1,000.0	971.4	966.0	2.1	2.6	-84.18	20.5	-200.8	204.0	199.3	4.69	43.516	SF		
1,100.0	1,100.0	1,070.1	1,063.6	2.4	2.9	-153.70	24.1	-215.0	220.3	215.6	4.73	46.582			
1,200.0	1,199.8	1,168.2	1,160.6	2.6	3.3	-153.59	27.7	-229.1	239.6	234.5	5.17	46.353			
1,300.0	1,299.5	1,265.6	1,257.0	2.8	3.6	-153.78	31.2	-243.1	262.0	256.4	5.61	46.724			
1,400.0	1,398.7	1,362.3	1,352.5	3.0	4.0	-154.20	34.8	-257.0	287.5	281.4	6.04	47.585			
1,500.0	1,497.6	1,458.3	1,447.5	3.3	4.3	-154.88	38.3	-270.9	315.3	308.8	6.49	48.586			
1,600.0	1,596.5	1,554.2	1,542.3	3.6	4.6	-155.52	41.8	-284.7	343.2	336.3	6.95	49.397			
1,700.0	1,695.4	1,650.2	1,637.2	3.9	5.0	-156.07	45.3	-298.5	371.2	363.8	7.41	50.075			
1,800.0	1,794.2	1,746.1	1,732.1	4.2	5.3	-156.54	48.9	-312.3	399.2	391.4	7.88	50.649			
1,900.0	1,893.1	1,842.0	1,827.0	4.5	5.7	-156.95	52.4	-326.1	427.3	418.9	8.36	51.140			
2,000.0	1,992.0	1,938.0	1,921.9	4.8	6.0	-157.31	55.9	-339.9	455.3	446.5	8.83	51.564			
2,100.0	2,090.9	2,033.9	2,016.7	5.2	6.4	-157.62	59.4	-353.7	483.4	474.1	9.31	51.933			
2,200.0	2,189.7	2,129.9	2,111.6	5.5	6.7	-157.90	62.9	-367.5	511.5	501.7	9.79	52.257			
2,300.0	2,288.6	2,225.8	2,206.5	5.8	7.1	-158.16	66.4	-381.3	539.6	529.3	10.27	52.542			
2,400.0	2,387.5	2,321.8	2,301.4	6.2	7.4	-158.38	70.0	-395.2	567.7	557.0	10.75	52.796			
2,500.0	2,486.4	2,417.7	2,396.3	6.5	7.7	-158.59	73.5	-409.0	595.8	584.6	11.24	53.022			
2,600.0	2,585.3	2,513.7	2,491.2	6.8	8.1	-158.78	77.0	-422.8	623.9	612.2	11.72	53.226			
2,700.0	2,684.1	2,609.6	2,586.0	7.2	8.4	-158.95	80.5	-436.6	652.1	639.9	12.21	53.409			
2,800.0	2,783.0	2,705.6	2,680.9	7.5	8.8	-159.11	84.0	-450.4	680.2	667.5	12.70	53.576			
2,900.0	2,881.9	2,801.5	2,775.8	7.9	9.1	-159.25	87.5	-464.2	708.3	695.1	13.18	53.727			
3,000.0	2,980.8	2,897.4	2,870.7	8.2	9.5	-159.38	91.1	-478.0	736.5	722.8	13.67	53.865			
3,100.0	3,079.6	2,993.4	2,965.6	8.6	9.8	-159.51	94.6	-491.8	764.6	750.4	14.16	53.991			
3,200.0	3,178.5	3,089.3	3,060.4	8.9	10.2	-159.62	98.1	-505.7	792.7	778.1	14.65	54.107			
3,300.0	3,277.4	3,185.3	3,155.3	9.3	10.5	-159.73	101.6	-519.5	820.9	805.8	15.14	54.214			
3,400.0	3,376.3	3,281.2	3,250.2	9.6	10.9	-159.83	105.1	-533.3	849.0	833.4	15.63	54.313			
3,500.0	3,475.2	3,377.2	3,345.1	10.0	11.2	-159.92	108.7	-547.1	877.2	861.1	16.12	54.405			
3,600.0	3,574.0	3,473.1	3,440.0	10.3	11.6	-160.01	112.2	-560.9	905.4	888.7	16.62	54.490			
3,700.0	3,672.9	3,569.1	3,534.9	10.7	11.9	-160.09	115.7	-574.7	933.5	916.4	17.11	54.569			
3,800.0	3,771.8	3,665.0	3,629.7	11.0	12.2	-160.17	119.2	-588.5	961.7	944.1	17.60	54.643			
3,900.0	3,870.7	3,761.0	3,724.6	11.4	12.6	-160.24	122.7	-602.3	989.8	971.7	18.09	54.712			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	0.0	0.0	0.0	0.0	-90.00	0.0	-106.4	106.5						
100.0	100.0	96.0	96.0	0.1	0.1	-90.00	0.0	-106.4	106.4	106.2	0.22	483.102			
200.0	200.0	196.0	196.0	0.3	0.3	-90.00	0.0	-106.4	106.4	105.8	0.67	159.952			
300.0	300.0	296.0	296.0	0.6	0.6	-90.00	0.0	-106.4	106.4	105.3	1.11	95.455			
400.0	400.0	396.0	396.0	0.8	0.8	-90.00	0.0	-106.4	106.4	104.9	1.56	68.025 CC, ES			
500.0	500.0	492.7	492.7	1.0	1.0	-89.75	0.5	-107.8	107.9	105.9	2.00	53.966			
600.0	600.0	589.0	588.9	1.2	1.2	-89.02	1.9	-112.3	112.6	110.2	2.44	46.229			
700.0	700.0	685.0	684.5	1.5	1.4	-87.91	4.4	-119.9	120.5	117.6	2.89	41.729			
800.0	800.0	780.8	779.7	1.7	1.7	-86.57	7.8	-130.4	131.7	128.3	3.36	39.136			
900.0	900.0	880.0	878.1	1.9	2.0	-85.29	11.7	-142.5	144.1	140.2	3.87	37.205			
1,000.0	1,000.0	979.2	976.4	2.1	2.3	-84.21	15.7	-154.5	156.6	152.2	4.39	35.655 SF			
1,100.0	1,100.0	1,078.2	1,074.6	2.4	2.6	-153.47	19.6	-166.6	170.6	166.0	4.67	36.499			
1,200.0	1,199.8	1,176.7	1,172.3	2.6	2.9	-153.25	23.5	-178.6	187.8	182.7	5.11	36.742			
1,300.0	1,299.5	1,274.6	1,269.4	2.8	3.2	-153.45	27.4	-190.5	208.0	202.5	5.55	37.515			
1,400.0	1,398.7	1,371.8	1,365.8	3.0	3.5	-153.95	31.2	-202.3	231.3	225.3	5.98	38.699			
1,500.0	1,497.6	1,468.4	1,461.6	3.3	3.8	-154.72	35.0	-214.0	256.9	250.5	6.42	40.005			
1,600.0	1,596.5	1,564.9	1,557.4	3.6	4.1	-155.42	38.9	-225.8	282.8	275.9	6.88	41.106			
1,700.0	1,695.4	1,661.5	1,653.2	3.9	4.4	-156.01	42.7	-237.5	308.6	301.3	7.34	42.041			
1,800.0	1,794.2	1,758.1	1,748.9	4.2	4.7	-156.50	46.5	-249.2	334.5	326.7	7.81	42.845			
1,900.0	1,893.1	1,854.6	1,844.7	4.5	5.0	-156.92	50.3	-261.0	360.3	352.1	8.28	43.542			
2,000.0	1,992.0	1,951.2	1,940.5	4.8	5.4	-157.29	54.1	-272.7	386.2	377.5	8.75	44.150			
2,100.0	2,090.9	2,047.7	2,036.2	5.2	5.7	-157.61	58.0	-284.5	412.2	402.9	9.22	44.686			
2,200.0	2,189.7	2,144.3	2,132.0	5.5	6.0	-157.89	61.8	-296.2	438.1	428.4	9.70	45.161			
2,300.0	2,288.6	2,240.9	2,227.8	5.8	6.3	-158.14	65.6	-308.0	464.0	453.8	10.18	45.584			
2,400.0	2,387.5	2,337.4	2,323.5	6.2	6.6	-158.37	69.4	-319.7	490.0	479.3	10.66	45.963			
2,500.0	2,486.4	2,434.0	2,419.3	6.5	6.9	-158.57	73.3	-331.4	515.9	504.8	11.14	46.304			
2,600.0	2,585.3	2,530.6	2,515.1	6.8	7.3	-158.75	77.1	-343.2	541.9	530.2	11.62	46.613			
2,700.0	2,684.1	2,627.1	2,610.8	7.2	7.6	-158.92	80.9	-354.9	567.8	555.7	12.11	46.894			
2,800.0	2,783.0	2,723.7	2,706.6	7.5	7.9	-159.07	84.7	-366.7	593.8	581.2	12.59	47.150			
2,900.0	2,881.9	2,820.2	2,802.4	7.9	8.2	-159.21	88.5	-378.4	619.7	606.7	13.08	47.384			
3,000.0	2,980.8	2,916.8	2,898.1	8.2	8.5	-159.34	92.4	-390.1	645.7	632.1	13.57	47.600			
3,100.0	3,079.6	3,013.4	2,993.9	8.6	8.8	-159.45	96.2	-401.9	671.7	657.6	14.05	47.798			
3,200.0	3,178.5	3,109.9	3,089.7	8.9	9.2	-159.56	100.0	-413.6	697.6	683.1	14.54	47.982			
3,300.0	3,277.4	3,206.5	3,185.4	9.3	9.5	-159.66	103.8	-425.4	723.6	708.6	15.03	48.152			
3,400.0	3,376.3	3,303.0	3,281.2	9.6	9.8	-159.76	107.7	-437.1	749.6	734.1	15.52	48.310			
3,500.0	3,475.2	3,399.6	3,377.0	10.0	10.1	-159.85	111.5	-448.8	775.6	759.6	16.01	48.457			
3,600.0	3,574.0	3,496.2	3,472.7	10.3	10.4	-159.93	115.3	-460.6	801.6	785.1	16.49	48.594			
3,700.0	3,672.9	3,592.7	3,568.5	10.7	10.7	-160.00	119.1	-472.3	827.5	810.6	16.98	48.723			
3,800.0	3,771.8	3,689.3	3,664.3	11.0	11.1	-160.08	122.9	-484.1	853.5	836.0	17.47	48.843			
3,900.0	3,870.7	3,785.8	3,760.0	11.4	11.4	-160.14	126.8	-495.8	879.5	861.5	17.97	48.956			
4,000.0	3,969.5	3,882.4	3,855.8	11.7	11.7	-160.21	130.6	-507.6	905.5	887.0	18.46	49.062			
4,100.0	4,068.4	3,979.0	3,951.6	12.1	12.0	-160.27	134.4	-519.3	931.5	912.5	18.95	49.162			
4,200.0	4,167.3	4,075.5	4,047.3	12.5	12.3	-160.33	138.2	-531.0	957.5	938.0	19.44	49.256			
4,300.0	4,266.2	4,172.1	4,143.1	12.8	12.6	-160.38	142.1	-542.8	983.5	963.5	19.93	49.345			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	0.0	0.0	0.0	0.0	-90.01	0.0	-92.4	92.5						
100.0	100.0	97.0	97.0	0.1	0.1	-90.01	0.0	-92.4	92.4	92.2	0.22	417.410			
200.0	200.0	197.0	197.0	0.3	0.3	-90.01	0.0	-92.4	92.4	91.7	0.67	138.438			
300.0	300.0	297.0	297.0	0.6	0.6	-90.01	0.0	-92.4	92.4	91.3	1.12	82.728			
400.0	400.0	397.0	397.0	0.8	0.8	-90.01	0.0	-92.4	92.4	90.8	1.57	58.990			
500.0	500.0	497.0	497.0	1.0	1.0	-90.01	0.0	-92.4	92.4	90.4	2.02	45.837			
600.0	600.0	597.0	597.0	1.2	1.2	-90.01	0.0	-92.4	92.4	89.9	2.47	37.480			
700.0	700.0	697.0	697.0	1.5	1.5	-90.01	0.0	-92.4	92.4	89.5	2.92	31.701			
800.0	800.0	797.0	797.0	1.7	1.7	-90.01	0.0	-92.4	92.4	89.1	3.36	27.466			
900.0	900.0	897.0	897.0	1.9	1.9	-90.01	0.0	-92.4	92.4	88.6	3.81	24.229			
1,000.0	1,000.0	997.0	997.0	2.1	2.1	-90.01	0.0	-92.4	92.4	88.2	4.26	21.674 CC, ES			
1,100.0	1,100.0	1,094.1	1,094.1	2.4	2.3	-159.98	0.6	-93.8	95.5	90.8	4.69	20.363 SF			
1,200.0	1,199.8	1,190.6	1,190.5	2.6	2.5	-159.79	2.6	-98.2	104.9	99.8	5.11	20.555			
1,300.0	1,299.5	1,285.9	1,285.5	2.8	2.8	-159.50	5.9	-105.4	120.7	115.1	5.52	21.846			
1,400.0	1,398.7	1,380.6	1,379.5	3.0	3.0	-159.20	10.3	-115.3	142.5	136.5	5.95	23.956			
1,500.0	1,497.6	1,477.5	1,475.6	3.3	3.2	-159.23	15.3	-126.3	167.5	161.1	6.38	26.264			
1,600.0	1,596.5	1,574.3	1,571.7	3.6	3.5	-159.32	20.2	-137.2	192.6	185.8	6.82	28.257			
1,700.0	1,695.4	1,671.0	1,667.7	3.9	3.8	-159.38	25.1	-148.2	217.7	210.5	7.26	29.976			
1,800.0	1,794.2	1,767.8	1,763.7	4.2	4.0	-159.43	30.1	-159.1	242.9	235.2	7.72	31.470			
1,900.0	1,893.1	1,864.6	1,859.8	4.5	4.3	-159.47	35.0	-170.0	268.0	259.8	8.18	32.769			
2,000.0	1,992.0	1,961.4	1,955.8	4.8	4.6	-159.51	39.9	-181.0	293.2	284.5	8.64	33.921			
2,100.0	2,090.9	2,058.2	2,051.9	5.2	4.9	-159.54	44.9	-191.9	318.3	309.2	9.11	34.937			
2,200.0	2,189.7	2,155.0	2,147.9	5.5	5.2	-159.56	49.8	-202.8	343.4	333.9	9.58	35.841			
2,300.0	2,288.6	2,251.8	2,243.9	5.8	5.5	-159.58	54.7	-213.8	368.6	358.5	10.06	36.651			
2,400.0	2,387.5	2,348.6	2,340.0	6.2	5.8	-159.60	59.7	-224.7	393.7	383.2	10.53	37.378			
2,500.0	2,486.4	2,445.4	2,436.0	6.5	6.1	-159.62	64.6	-235.6	418.9	407.9	11.01	38.035			
2,600.0	2,585.3	2,542.1	2,532.1	6.8	6.4	-159.63	69.5	-246.6	444.0	432.5	11.49	38.631			
2,700.0	2,684.1	2,638.9	2,628.1	7.2	6.7	-159.65	74.5	-257.5	469.2	457.2	11.98	39.173			
2,800.0	2,783.0	2,735.7	2,724.2	7.5	7.0	-159.66	79.4	-268.5	494.3	481.8	12.46	39.669			
2,900.0	2,881.9	2,832.5	2,820.2	7.9	7.3	-159.67	84.3	-279.4	519.4	506.5	12.95	40.124			
3,000.0	2,980.8	2,929.3	2,916.2	8.2	7.6	-159.68	89.3	-290.3	544.6	531.1	13.43	40.542			
3,100.0	3,079.6	3,026.1	3,012.3	8.6	7.9	-159.69	94.2	-301.3	569.7	555.8	13.92	40.928			
3,200.0	3,178.5	3,122.9	3,108.3	8.9	8.2	-159.70	99.1	-312.2	594.9	580.5	14.41	41.285			
3,300.0	3,277.4	3,219.7	3,204.4	9.3	8.5	-159.70	104.1	-323.1	620.0	605.1	14.90	41.616			
3,400.0	3,376.3	3,316.4	3,300.4	9.6	8.8	-159.71	109.0	-334.1	645.1	629.8	15.39	41.924			
3,500.0	3,475.2	3,413.2	3,396.4	10.0	9.1	-159.72	113.9	-345.0	670.3	654.4	15.88	42.211			
3,600.0	3,574.0	3,510.0	3,492.5	10.3	9.4	-159.72	118.9	-356.0	695.4	679.1	16.37	42.479			
3,700.0	3,672.9	3,606.8	3,588.5	10.7	9.7	-159.73	123.8	-366.9	720.6	703.7	16.86	42.730			
3,800.0	3,771.8	3,703.6	3,684.6	11.0	10.0	-159.73	128.7	-377.8	745.7	728.4	17.36	42.965			
3,900.0	3,870.7	3,800.4	3,780.6	11.4	10.3	-159.74	133.7	-388.8	770.8	753.0	17.85	43.186			
4,000.0	3,969.5	3,897.2	3,876.7	11.7	10.6	-159.74	138.6	-399.7	796.0	777.6	18.34	43.394			
4,100.0	4,068.4	3,994.0	3,972.7	12.1	11.0	-159.74	143.5	-410.6	821.1	802.3	18.84	43.590			
4,200.0	4,167.3	4,090.7	4,068.7	12.5	11.3	-159.75	148.5	-421.6	846.3	826.9	19.33	43.775			
4,300.0	4,266.2	4,187.5	4,164.8	12.8	11.6	-159.75	153.4	-432.5	871.4	851.6	19.83	43.949			
4,400.0	4,365.0	4,284.3	4,260.8	13.2	11.9	-159.76	158.3	-443.4	896.6	876.2	20.32	44.115			
4,500.0	4,463.9	4,381.1	4,356.9	13.5	12.2	-159.76	163.3	-454.4	921.7	900.9	20.82	44.272			
4,600.0	4,562.8	4,481.4	4,456.4	13.9	12.5	-159.76	168.4	-465.7	946.8	925.5	21.32	44.408			
4,700.0	4,661.9	4,621.8	4,596.2	14.2	12.8	-159.96	173.9	-477.9	968.1	946.2	21.89	44.231			
4,800.0	4,761.4	4,765.3	4,739.5	14.4	13.1	-160.18	176.6	-484.0	981.8	959.4	22.39	43.845			
4,900.0	4,861.1	4,884.0	4,858.1	14.6	13.3	-160.37	176.9	-484.6	988.4	965.6	22.82	43.311			
5,000.0	4,961.1	4,983.9	4,958.1	14.8	13.4	-160.45	176.9	-484.6	991.3	968.1	23.20	42.724			
5,100.0	5,061.1	5,083.9	5,058.1	14.9	13.6	-90.42	176.9	-484.6	991.6	968.0	23.58	42.052			

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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	5,161.1	5,183.9	5,158.1	15.1	13.8	-90.42	176.9	-484.6	991.6	967.6	23.98	41.358			
5,300.0	5,261.1	5,283.9	5,258.1	15.2	14.0	-90.42	176.9	-484.6	991.6	967.2	24.37	40.683			
5,400.0	5,361.1	5,383.9	5,358.1	15.4	14.1	-90.42	176.9	-484.6	991.6	966.8	24.77	40.027			
5,500.0	5,461.1	5,483.9	5,458.1	15.6	14.3	-90.42	176.9	-484.6	991.6	966.4	25.17	39.390			
5,600.0	5,561.1	5,583.9	5,558.1	15.7	14.5	-90.42	176.9	-484.6	991.6	966.0	25.58	38.770			
5,700.0	5,661.1	5,683.9	5,658.1	15.9	14.7	-90.42	176.9	-484.6	991.6	965.6	25.98	38.167			
5,800.0	5,761.1	5,783.9	5,758.1	16.1	14.9	-90.42	176.9	-484.6	991.6	965.2	26.38	37.580			
5,900.0	5,861.1	5,883.9	5,858.1	16.2	15.1	-90.42	176.9	-484.6	991.6	964.8	26.79	37.009			
6,000.0	5,961.1	5,983.9	5,958.1	16.4	15.3	-90.42	176.9	-484.6	991.6	964.4	27.20	36.454			
6,100.0	6,061.1	6,083.9	6,058.1	16.6	15.4	-90.42	176.9	-484.6	991.6	963.9	27.61	35.913			
6,200.0	6,161.1	6,183.9	6,158.1	16.8	15.6	-90.42	176.9	-484.6	991.6	963.5	28.02	35.387			
6,300.0	6,261.1	6,283.9	6,258.1	16.9	15.8	-90.42	176.9	-484.6	991.6	963.1	28.43	34.874			
6,400.0	6,361.1	6,383.9	6,358.1	17.1	16.0	-90.42	176.9	-484.6	991.6	962.7	28.85	34.374			
6,500.0	6,461.1	6,483.9	6,458.1	17.3	16.2	-90.42	176.9	-484.6	991.6	962.3	29.26	33.888			
6,600.0	6,561.1	6,583.9	6,558.1	17.5	16.4	-90.42	176.9	-484.6	991.6	961.9	29.67	33.414			
6,700.0	6,661.1	6,683.9	6,658.1	17.6	16.6	-90.42	176.9	-484.6	991.6	961.5	30.09	32.952			
6,760.9	6,722.0	6,744.9	6,719.0	17.8	16.7	-90.42	176.9	-484.6	991.6	961.2	30.35	32.676			
6,800.0	6,761.1	6,783.7	6,757.9	17.8	16.8	-90.43	176.7	-484.6	991.6	961.1	30.50	32.506			
6,900.0	6,861.1	6,880.6	6,853.9	18.0	16.9	-91.11	165.0	-484.6	991.7	960.9	30.83	32.163			
7,000.0	6,961.1	6,970.3	6,939.5	18.2	17.0	87.35	138.5	-484.6	992.7	961.7	31.10	31.925			
7,100.0	7,060.3	7,053.5	7,013.7	18.3	17.0	85.43	101.1	-484.6	995.1	963.8	31.25	31.838			
7,200.0	7,155.5	7,133.2	7,078.4	18.4	17.1	83.67	54.7	-484.6	998.2	966.8	31.35	31.836			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	0.0	0.0	0.0	0.0	-90.00	0.0	-75.6	75.7					
100.0	100.0	97.0	97.0	0.1	0.1	-90.00	0.0	-75.6	75.6	75.4	0.22	341.517		
200.0	200.0	197.0	197.0	0.3	0.3	-90.00	0.0	-75.6	75.6	74.9	0.67	113.267		
300.0	300.0	297.0	297.0	0.6	0.6	-90.00	0.0	-75.6	75.6	74.5	1.12	67.687		
400.0	400.0	397.0	397.0	0.8	0.8	-90.00	0.0	-75.6	75.6	74.0	1.57	48.265		
500.0	500.0	497.0	497.0	1.0	1.0	-90.00	0.0	-75.6	75.6	73.6	2.02	37.503		
600.0	600.0	597.0	597.0	1.2	1.2	-90.00	0.0	-75.6	75.6	73.1	2.47	30.666		
700.0	700.0	697.0	697.0	1.5	1.5	-90.00	0.0	-75.6	75.6	72.7	2.92	25.937		
800.0	800.0	797.0	797.0	1.7	1.7	-90.00	0.0	-75.6	75.6	72.2	3.36	22.472		
900.0	900.0	897.0	897.0	1.9	1.9	-90.00	0.0	-75.6	75.6	71.8	3.81	19.823		
1,000.0	1,000.0	997.0	997.0	2.1	2.1	-90.00	0.0	-75.6	75.6	71.3	4.26	17.733	CC, ES	
1,100.0	1,100.0	1,097.0	1,097.0	2.4	2.4	-160.46	0.0	-75.6	77.3	72.6	4.70	16.426		
1,200.0	1,199.8	1,196.8	1,196.8	2.6	2.6	-161.65	0.0	-75.6	82.2	77.1	5.13	16.016		
1,300.0	1,299.5	1,296.5	1,296.5	2.8	2.8	-163.34	0.0	-75.6	90.5	85.0	5.56	16.281		
1,400.0	1,398.7	1,395.7	1,395.7	3.0	3.0	-165.24	0.0	-75.6	102.3	96.3	5.98	17.088		
1,500.0	1,497.6	1,491.9	1,491.8	3.3	3.2	-166.52	0.9	-76.8	117.7	111.3	6.41	18.367		
1,600.0	1,596.5	1,587.2	1,587.0	3.6	3.4	-166.58	3.6	-80.5	135.8	128.9	6.84	19.843		
1,700.0	1,695.4	1,681.5	1,681.1	3.9	3.7	-165.83	8.2	-86.7	156.2	148.9	7.28	21.455		
1,800.0	1,794.2	1,775.7	1,774.7	4.2	3.9	-164.58	14.6	-95.3	179.0	171.2	7.73	23.160		
1,900.0	1,893.1	1,872.9	1,871.0	4.5	4.1	-163.40	21.7	-104.9	202.5	194.3	8.18	24.749		
2,000.0	1,992.0	1,970.0	1,967.4	4.8	4.4	-162.47	28.8	-114.5	226.1	217.5	8.64	26.160		
2,100.0	2,090.9	2,067.1	2,063.8	5.2	4.6	-161.71	35.9	-124.1	249.8	240.7	9.11	27.414		
2,200.0	2,189.7	2,164.2	2,160.2	5.5	4.9	-161.09	43.0	-133.7	273.5	263.9	9.59	28.532		
2,300.0	2,288.6	2,261.3	2,256.5	5.8	5.2	-160.57	50.1	-143.3	297.2	287.2	10.06	29.537		
2,400.0	2,387.5	2,358.4	2,352.9	6.2	5.4	-160.12	57.3	-152.9	321.0	310.4	10.54	30.440		
2,500.0	2,486.4	2,455.5	2,449.3	6.5	5.7	-159.73	64.4	-162.5	344.7	333.7	11.03	31.257		
2,600.0	2,585.3	2,552.6	2,545.7	6.8	6.0	-159.40	71.5	-172.1	368.5	357.0	11.52	31.998		
2,700.0	2,684.1	2,649.7	2,642.0	7.2	6.3	-159.10	78.6	-181.7	392.3	380.3	12.01	32.673		
2,800.0	2,783.0	2,746.9	2,738.4	7.5	6.6	-158.84	85.7	-191.3	416.1	403.6	12.50	33.289		
2,900.0	2,881.9	2,844.0	2,834.8	7.9	6.9	-158.61	92.8	-200.9	439.9	426.9	12.99	33.854		
3,000.0	2,980.8	2,941.1	2,931.2	8.2	7.1	-158.40	99.9	-210.5	463.7	450.2	13.49	34.373		
3,100.0	3,079.6	3,038.2	3,027.5	8.6	7.4	-158.21	107.0	-220.1	487.5	473.5	13.99	34.852		
3,200.0	3,178.5	3,135.3	3,123.9	8.9	7.7	-158.04	114.2	-229.7	511.3	496.8	14.49	35.295		
3,300.0	3,277.4	3,232.4	3,220.3	9.3	8.0	-157.88	121.3	-239.3	535.2	520.2	14.99	35.705		
3,400.0	3,376.3	3,329.5	3,316.7	9.6	8.3	-157.74	128.4	-248.9	559.0	543.5	15.49	36.087		
3,500.0	3,475.2	3,426.6	3,413.0	10.0	8.6	-157.61	135.5	-258.5	582.8	566.8	15.99	36.442		
3,600.0	3,574.0	3,523.7	3,509.4	10.3	8.9	-157.49	142.6	-268.1	606.6	590.1	16.50	36.773		
3,700.0	3,672.9	3,620.9	3,605.8	10.7	9.2	-157.38	149.7	-277.7	630.5	613.5	17.00	37.083		
3,800.0	3,771.8	3,718.0	3,702.2	11.0	9.5	-157.27	156.8	-287.3	654.3	636.8	17.51	37.374		
3,900.0	3,870.7	3,815.1	3,798.5	11.4	9.8	-157.18	163.9	-296.9	678.1	660.1	18.01	37.646		
4,000.0	3,969.5	3,924.4	3,907.0	11.7	10.1	-157.10	171.6	-307.2	701.6	683.0	18.53	37.865		
4,100.0	4,068.4	4,047.6	4,029.9	12.1	10.4	-157.23	177.5	-315.2	722.0	703.0	19.02	37.951		
4,200.0	4,167.3	4,172.5	4,154.6	12.5	10.6	-157.59	180.3	-319.0	738.9	719.4	19.50	37.884		
4,300.0	4,266.2	4,281.0	4,263.2	12.8	10.8	-158.05	180.5	-319.3	753.0	733.0	19.95	37.738		
4,400.0	4,365.0	4,379.9	4,362.0	13.2	11.0	-158.47	180.5	-319.3	766.9	746.5	20.41	37.582		
4,500.0	4,463.9	4,478.8	4,460.9	13.5	11.2	-158.87	180.5	-319.3	780.8	759.9	20.86	37.429		
4,600.0	4,562.8	4,577.6	4,559.8	13.9	11.4	-159.26	180.5	-319.3	794.8	773.5	21.32	37.284		
4,700.0	4,661.9	4,676.7	4,658.9	14.2	11.6	-159.68	180.5	-319.3	807.5	785.7	21.80	37.039		
4,800.0	4,761.4	4,776.2	4,758.4	14.4	11.7	-159.99	180.5	-319.3	816.9	794.7	22.24	36.733		
4,900.0	4,861.1	4,876.0	4,858.1	14.6	11.9	-160.19	180.5	-319.3	823.1	800.5	22.65	36.340		
5,000.0	4,961.1	4,975.9	4,958.1	14.8	12.1	-160.28	180.5	-319.3	826.0	803.0	23.03	35.865		
5,100.0	5,061.1	5,075.9	5,058.1	14.9	12.3	-90.26	180.5	-319.3	826.3	802.9	23.41	35.291		

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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	5,161.1	5,175.9	5,158.1	15.1	12.5	-90.26	180.5	-319.3	826.3	802.5	23.82	34.692			
5,300.0	5,261.1	5,275.9	5,258.1	15.2	12.7	-90.26	180.5	-319.3	826.3	802.1	24.22	34.111			
5,400.0	5,361.1	5,375.9	5,358.1	15.4	12.9	-90.26	180.5	-319.3	826.3	801.6	24.63	33.548			
5,500.0	5,461.1	5,475.9	5,458.1	15.6	13.1	-90.26	180.5	-319.3	826.3	801.2	25.04	33.000			
5,600.0	5,561.1	5,575.9	5,558.1	15.7	13.3	-90.26	180.5	-319.3	826.3	800.8	25.45	32.469			
5,700.0	5,661.1	5,675.9	5,658.1	15.9	13.5	-90.26	180.5	-319.3	826.3	800.4	25.86	31.953			
5,800.0	5,761.1	5,775.9	5,758.1	16.1	13.7	-90.26	180.5	-319.3	826.3	800.0	26.27	31.451			
5,900.0	5,861.1	5,875.9	5,858.1	16.2	13.9	-90.26	180.5	-319.3	826.3	799.6	26.69	30.964			
6,000.0	5,961.1	5,975.9	5,958.1	16.4	14.1	-90.26	180.5	-319.3	826.3	799.2	27.10	30.490			
6,100.0	6,061.1	6,075.9	6,058.1	16.6	14.4	-90.26	180.5	-319.3	826.3	798.8	27.52	30.029			
6,200.0	6,161.1	6,175.9	6,158.1	16.8	14.6	-90.26	180.5	-319.3	826.3	798.3	27.93	29.581			
6,300.0	6,261.1	6,275.9	6,258.1	16.9	14.8	-90.26	180.5	-319.3	826.3	797.9	28.35	29.145			
6,400.0	6,361.1	6,375.9	6,358.1	17.1	15.0	-90.26	180.5	-319.3	826.3	797.5	28.77	28.721			
6,500.0	6,461.1	6,475.9	6,458.1	17.3	15.2	-90.26	180.5	-319.3	826.3	797.1	29.19	28.308			
6,600.0	6,561.1	6,575.9	6,558.1	17.5	15.4	-90.26	180.5	-319.3	826.3	796.7	29.61	27.906			
6,700.0	6,661.1	6,675.9	6,658.1	17.6	15.6	-90.26	180.5	-319.3	826.3	796.2	30.03	27.514			
6,761.0	6,722.1	6,736.9	6,719.1	17.8	15.7	-90.26	180.5	-319.3	826.3	796.0	30.29	27.280			
6,800.0	6,761.1	6,775.8	6,758.0	17.8	15.8	-90.27	180.3	-319.3	826.3	795.8	30.45	27.138			
6,900.0	6,861.1	6,873.3	6,854.6	18.0	15.9	-91.09	168.4	-319.3	826.4	795.7	30.77	26.858			
7,000.0	6,961.1	6,963.6	6,940.7	18.2	16.0	87.03	141.6	-319.3	827.5	796.5	31.01	26.683			
7,100.0	7,060.3	7,050.0	7,017.6	18.3	16.1	84.67	102.4	-319.3	830.2	799.1	31.15	26.653			
7,200.0	7,155.5	7,127.1	7,079.9	18.4	16.1	82.60	57.1	-319.3	833.9	802.6	31.23	26.701			
7,300.0	7,243.3	7,200.0	7,132.0	18.4	16.2	80.77	6.2	-319.3	838.1	806.8	31.30	26.779			
7,400.0	7,320.3	7,279.7	7,180.3	18.5	16.2	79.07	-57.1	-319.3	842.2	810.8	31.43	26.800			
7,500.0	7,383.8	7,350.0	7,214.4	18.6	16.3	77.79	-118.5	-319.3	846.0	814.4	31.65	26.733			
7,600.0	7,431.5	7,426.3	7,241.8	18.7	16.5	76.79	-189.6	-319.3	849.0	816.9	32.10	26.450			
7,700.0	7,461.5	7,500.0	7,258.1	19.0	16.9	76.20	-261.5	-319.3	850.9	818.1	32.80	25.941			
7,800.0	7,472.8	7,570.0	7,264.0	19.5	17.4	76.01	-331.2	-319.3	851.5	817.7	33.79	25.202			
7,804.5	7,472.9	7,573.3	7,264.0	19.5	17.4	76.01	-334.4	-319.3	851.5	817.7	33.85	25.159			
7,900.0	7,472.6	7,665.5	7,263.7	20.2	18.2	76.01	-426.6	-319.3	851.5	816.2	35.34	24.093			
8,000.0	7,472.2	7,765.5	7,263.2	21.0	19.2	76.00	-526.6	-319.3	851.6	814.3	37.23	22.873			
8,100.0	7,471.9	7,865.5	7,262.7	22.0	20.3	75.99	-626.6	-319.3	851.6	812.2	39.38	21.625			
8,200.0	7,471.5	7,965.4	7,262.3	23.1	21.5	75.98	-726.6	-319.3	851.6	809.9	41.75	20.396			
8,300.0	7,471.2	8,065.4	7,261.8	24.3	22.8	75.98	-826.6	-319.3	851.7	807.3	44.32	19.218			
8,400.0	7,470.8	8,165.4	7,261.3	25.7	24.2	75.97	-926.6	-319.3	851.7	804.7	47.03	18.108			
8,500.0	7,470.5	8,265.4	7,260.8	27.0	25.7	75.96	-1,026.6	-319.3	851.7	801.8	49.88	17.074			
8,600.0	7,470.1	8,365.4	7,260.4	28.5	27.2	75.95	-1,126.6	-319.3	851.7	798.9	52.84	16.119			
8,700.0	7,469.8	8,465.4	7,259.9	30.0	28.8	75.94	-1,226.6	-319.3	851.8	795.9	55.89	15.239			
8,800.0	7,469.4	8,565.4	7,259.4	31.5	30.4	75.94	-1,326.6	-319.3	851.8	792.8	59.02	14.431			
8,900.0	7,469.1	8,665.4	7,259.0	33.1	32.0	75.93	-1,426.6	-319.3	851.8	789.6	62.22	13.691			
9,000.0	7,468.7	8,765.4	7,258.5	34.7	33.7	75.92	-1,526.6	-319.3	851.9	786.4	65.47	13.011			
9,100.0	7,468.4	8,865.4	7,258.0	36.4	35.4	75.91	-1,626.6	-319.3	851.9	783.1	68.77	12.387			
9,200.0	7,468.0	8,965.4	7,257.5	38.1	37.1	75.90	-1,726.6	-319.3	851.9	779.8	72.12	11.813			
9,300.0	7,467.7	9,065.4	7,257.1	39.8	38.9	75.90	-1,826.6	-319.3	852.0	776.5	75.49	11.285			
9,400.0	7,467.3	9,165.4	7,256.6	41.5	40.6	75.89	-1,926.6	-319.3	852.0	773.1	78.91	10.798			
9,500.0	7,467.0	9,265.4	7,256.1	43.2	42.4	75.88	-2,026.6	-319.3	852.0	769.7	82.34	10.347			
9,600.0	7,466.6	9,365.4	7,255.7	44.9	44.1	75.87	-2,126.6	-319.3	852.0	766.2	85.80	9.930			
9,700.0	7,466.3	9,465.4	7,255.2	46.7	45.9	75.86	-2,226.6	-319.3	852.1	762.8	89.29	9.543			
9,800.0	7,465.9	9,565.4	7,254.7	48.5	47.7	75.86	-2,326.6	-319.3	852.1	759.3	92.79	9.183			
9,900.0	7,465.6	9,665.4	7,254.2	50.3	49.5	75.85	-2,426.6	-319.3	852.1	755.8	96.31	8.848			
10,000.0	7,465.2	9,765.4	7,253.8	52.0	51.4	75.84	-2,526.6	-319.3	852.2	752.3	99.84	8.535			
10,100.0	7,464.9	9,865.4	7,253.3	53.8	53.2	75.83	-2,626.6	-319.3	852.2	748.8	103.39	8.242			

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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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			
10,200.0	7,464.5	9,965.4	7,252.8	55.6	55.0	75.82	-2,726.6	-319.3	852.2	745.3	106.95	7.968			
10,300.0	7,464.2	10,065.4	7,252.4	57.5	56.8	75.82	-2,826.6	-319.3	852.2	741.7	110.52	7.711			
10,400.0	7,463.8	10,165.4	7,251.9	59.3	58.7	75.81	-2,926.6	-319.3	852.3	738.2	114.10	7.469			
10,500.0	7,463.5	10,265.4	7,251.4	61.1	60.5	75.80	-3,026.6	-319.3	852.3	734.6	117.69	7.242			
10,600.0	7,463.1	10,365.4	7,250.9	62.9	62.4	75.79	-3,126.6	-319.3	852.3	731.1	121.29	7.027			
10,700.0	7,462.8	10,465.4	7,250.5	64.8	64.2	75.79	-3,226.6	-319.3	852.4	727.5	124.89	6.825			
10,800.0	7,462.4	10,565.4	7,250.0	66.6	66.1	75.78	-3,326.6	-319.3	852.4	723.9	128.50	6.633			
10,900.0	7,462.1	10,665.4	7,249.5	68.5	67.9	75.77	-3,426.6	-319.3	852.4	720.3	132.12	6.452			
11,000.0	7,461.7	10,765.4	7,249.1	70.3	69.8	75.76	-3,526.6	-319.3	852.5	716.7	135.75	6.280			
11,100.0	7,461.4	10,865.4	7,248.6	72.2	71.7	75.75	-3,626.6	-319.3	852.5	713.1	139.37	6.117			
11,200.0	7,461.0	10,965.4	7,248.1	74.0	73.5	75.75	-3,726.6	-319.3	852.5	709.5	143.01	5.961			
11,300.0	7,460.7	11,065.4	7,247.6	75.9	75.4	75.74	-3,826.6	-319.3	852.5	705.9	146.65	5.814			
11,400.0	7,460.3	11,165.4	7,247.2	77.7	77.3	75.73	-3,926.6	-319.3	852.6	702.3	150.29	5.673			
11,500.0	7,460.0	11,265.4	7,246.7	79.6	79.2	75.72	-4,026.6	-319.3	852.6	698.7	153.93	5.539			
11,600.0	7,459.6	11,365.4	7,246.2	81.5	81.0	75.71	-4,126.6	-319.3	852.6	695.1	157.58	5.411			
11,700.0	7,459.3	11,465.4	7,245.8	83.3	82.9	75.71	-4,226.6	-319.3	852.7	691.4	161.23	5.288			
11,800.0	7,458.9	11,565.4	7,245.3	85.2	84.8	75.70	-4,326.6	-319.3	852.7	687.8	164.89	5.171			
11,900.0	7,458.6	11,665.4	7,244.8	87.1	86.7	75.69	-4,426.6	-319.3	852.7	684.2	168.55	5.059			
12,000.0	7,458.2	11,765.4	7,244.4	89.0	88.5	75.68	-4,526.6	-319.3	852.8	680.6	172.21	4.952			
12,069.8	7,458.0	11,835.2	7,244.0	90.3	89.9	75.68	-4,596.3	-319.3	852.8	678.0	174.76	4.880 SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	0.0	0.0	0.0	0.0	-90.00	0.0	-61.6	61.6						
100.0	100.0	98.0	98.0	0.1	0.1	-90.00	0.0	-61.6	61.6	61.4	0.22	276.871			
200.0	200.0	198.0	198.0	0.3	0.3	-90.00	0.0	-61.6	61.6	60.9	0.67	91.982			
300.0	300.0	298.0	298.0	0.6	0.6	-90.00	0.0	-61.6	61.6	60.5	1.12	55.042			
400.0	400.0	398.0	398.0	0.8	0.8	-90.00	0.0	-61.6	61.6	60.0	1.57	39.270			
500.0	500.0	498.0	498.0	1.0	1.0	-90.00	0.0	-61.6	61.6	59.6	2.02	30.524			
600.0	600.0	598.0	598.0	1.2	1.2	-90.00	0.0	-61.6	61.6	59.1	2.47	24.964			
700.0	700.0	698.0	698.0	1.5	1.5	-90.00	0.0	-61.6	61.6	58.7	2.92	21.118			
800.0	800.0	798.0	798.0	1.7	1.7	-90.00	0.0	-61.6	61.6	58.2	3.37	18.298			
900.0	900.0	898.0	898.0	1.9	1.9	-90.00	0.0	-61.6	61.6	57.8	3.82	16.143			
1,000.0	1,000.0	998.0	998.0	2.1	2.1	-90.00	0.0	-61.6	61.6	57.3	4.27	14.442	CC, ES		
1,100.0	1,100.0	1,098.0	1,098.0	2.4	2.4	-160.56	0.0	-61.6	63.3	58.5	4.71	13.442			
1,200.0	1,199.8	1,197.8	1,197.8	2.6	2.6	-161.99	0.0	-61.6	68.2	63.1	5.13	13.284			
1,300.0	1,299.5	1,297.5	1,297.5	2.8	2.8	-163.96	0.0	-61.6	76.5	71.0	5.56	13.763			
1,400.0	1,398.7	1,396.7	1,396.7	3.0	3.0	-166.09	0.0	-61.6	88.3	82.3	5.99	14.756			
1,500.0	1,497.6	1,495.6	1,495.6	3.3	3.2	-168.05	0.0	-61.6	102.8	96.3	6.42	16.004			
1,600.0	1,596.5	1,594.5	1,594.5	3.6	3.5	-169.56	0.0	-61.6	117.4	110.6	6.86	17.107			
1,700.0	1,695.4	1,692.4	1,692.4	3.9	3.7	-170.26	1.0	-62.1	132.5	125.2	7.31	18.129			
1,800.0	1,794.2	1,790.1	1,790.1	4.2	3.9	-169.87	4.2	-63.8	148.3	140.5	7.75	19.123			
1,900.0	1,893.1	1,887.5	1,887.2	4.5	4.1	-168.72	9.6	-66.5	164.8	156.6	8.20	20.092			
2,000.0	1,992.0	1,984.4	1,983.7	4.8	4.4	-167.04	17.2	-70.4	182.3	173.6	8.66	21.044			
2,100.0	2,090.9	2,081.5	2,080.3	5.2	4.6	-165.05	26.8	-75.3	200.7	191.6	9.13	21.974			
2,200.0	2,189.7	2,179.5	2,177.7	5.5	4.8	-163.29	36.7	-80.4	219.5	209.9	9.62	22.823			
2,300.0	2,288.6	2,277.6	2,275.0	5.8	5.1	-161.80	46.7	-85.5	238.4	228.3	10.11	23.590			
2,400.0	2,387.5	2,375.6	2,372.4	6.2	5.3	-160.53	56.7	-90.6	257.5	246.9	10.60	24.282			
2,500.0	2,486.4	2,473.6	2,469.8	6.5	5.6	-159.44	66.7	-95.7	276.7	265.6	11.11	24.909			
2,600.0	2,585.3	2,571.6	2,567.1	6.8	5.8	-158.49	76.6	-100.9	295.9	284.3	11.62	25.477			
2,700.0	2,684.1	2,669.6	2,664.5	7.2	6.1	-157.65	86.6	-106.0	315.3	303.1	12.13	25.995			
2,800.0	2,783.0	2,767.6	2,761.9	7.5	6.4	-156.92	96.6	-111.1	334.7	322.0	12.64	26.467			
2,900.0	2,881.9	2,865.7	2,859.3	7.9	6.6	-156.26	106.6	-116.2	354.1	340.9	13.16	26.899			
3,000.0	2,980.8	2,963.7	2,956.6	8.2	6.9	-155.67	116.5	-121.3	373.6	359.9	13.69	27.296			
3,100.0	3,079.6	3,061.7	3,054.0	8.6	7.2	-155.14	126.5	-126.4	393.1	378.9	14.21	27.661			
3,200.0	3,178.5	3,159.7	3,151.4	8.9	7.5	-154.66	136.5	-131.5	412.6	397.9	14.74	27.998			
3,300.0	3,277.4	3,257.7	3,248.8	9.3	7.8	-154.22	146.5	-136.6	432.2	416.9	15.27	28.309			
3,400.0	3,376.3	3,355.7	3,346.1	9.6	8.0	-153.82	156.4	-141.7	451.8	436.0	15.80	28.598			
3,500.0	3,475.2	3,459.6	3,449.4	10.0	8.3	-153.54	166.2	-146.7	470.9	454.6	16.30	28.888			
3,600.0	3,574.0	3,565.3	3,554.8	10.3	8.5	-153.55	173.5	-150.5	488.5	471.7	16.78	29.120			
3,700.0	3,672.9	3,671.5	3,660.9	10.7	8.7	-153.85	178.2	-152.9	504.7	487.4	17.24	29.280			
3,800.0	3,771.8	3,778.1	3,767.4	11.0	8.9	-154.41	180.4	-154.0	519.4	501.7	17.68	29.379			
3,900.0	3,870.7	3,879.3	3,868.7	11.4	9.1	-155.11	180.5	-154.0	533.0	514.9	18.11	29.428			
4,000.0	3,969.5	3,978.2	3,967.5	11.7	9.3	-155.77	180.5	-154.0	546.6	528.0	18.56	29.451			
4,100.0	4,068.4	4,077.1	4,066.4	12.1	9.5	-156.39	180.5	-154.0	560.3	541.3	19.01	29.471			
4,200.0	4,167.3	4,176.0	4,165.3	12.5	9.7	-156.99	180.5	-154.0	574.0	554.5	19.46	29.492			
4,300.0	4,266.2	4,274.8	4,264.2	12.8	9.9	-157.56	180.5	-154.0	587.8	567.9	19.92	29.516			
4,400.0	4,365.0	4,373.7	4,363.0	13.2	10.1	-158.10	180.5	-154.0	601.7	581.3	20.37	29.541			
4,500.0	4,463.9	4,472.6	4,461.9	13.5	10.3	-158.62	180.5	-154.0	615.6	594.8	20.82	29.567			
4,600.0	4,562.8	4,571.5	4,560.8	13.9	10.5	-159.11	180.5	-154.0	629.5	608.3	21.27	29.594			
4,700.0	4,661.9	4,670.6	4,659.9	14.2	10.7	-159.62	180.5	-154.0	642.2	620.5	21.74	29.536			
4,800.0	4,761.4	4,770.0	4,759.4	14.4	10.9	-159.99	180.5	-154.0	651.7	629.5	22.17	29.393			
4,900.0	4,861.1	4,869.8	4,859.1	14.6	11.1	-160.23	180.5	-154.0	657.9	635.3	22.57	29.144			
5,000.0	4,961.1	4,969.8	4,959.1	14.8	11.3	-160.34	180.5	-154.0	660.8	637.8	22.95	28.795			
5,100.0	5,061.1	5,069.8	5,059.1	14.9	11.6	-90.32	180.5	-154.0	661.0	637.7	23.33	28.334			

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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	5,161.1	5,169.8	5,159.1	15.1	11.8	-90.32	180.5	-154.0	661.0	637.3	23.74	27.847			
5,300.0	5,261.1	5,269.8	5,259.1	15.2	12.0	-90.32	180.5	-154.0	661.0	636.9	24.15	27.374			
5,400.0	5,361.1	5,369.8	5,359.1	15.4	12.2	-90.32	180.5	-154.0	661.0	636.5	24.56	26.916			
5,500.0	5,461.1	5,469.8	5,459.1	15.6	12.4	-90.32	180.5	-154.0	661.0	636.1	24.97	26.472			
5,600.0	5,561.1	5,569.8	5,559.1	15.7	12.6	-90.32	180.5	-154.0	661.0	635.6	25.38	26.040			
5,700.0	5,661.1	5,669.8	5,659.1	15.9	12.8	-90.32	180.5	-154.0	661.0	635.2	25.80	25.622			
5,800.0	5,761.1	5,769.8	5,759.1	16.1	13.1	-90.32	180.5	-154.0	661.0	634.8	26.22	25.215			
5,900.0	5,861.1	5,869.8	5,859.1	16.2	13.3	-90.32	180.5	-154.0	661.0	634.4	26.63	24.820			
6,000.0	5,961.1	5,969.8	5,959.1	16.4	13.5	-90.32	180.5	-154.0	661.0	634.0	27.05	24.437			
6,100.0	6,061.1	6,069.8	6,059.1	16.6	13.7	-90.32	180.5	-154.0	661.0	633.6	27.47	24.064			
6,200.0	6,161.1	6,169.8	6,159.1	16.8	13.9	-90.32	180.5	-154.0	661.0	633.1	27.89	23.702			
6,300.0	6,261.1	6,269.8	6,259.1	16.9	14.1	-90.32	180.5	-154.0	661.0	632.7	28.31	23.349			
6,400.0	6,361.1	6,369.8	6,359.1	17.1	14.3	-90.32	180.5	-154.0	661.0	632.3	28.73	23.007			
6,500.0	6,461.1	6,469.8	6,459.1	17.3	14.6	-90.32	180.5	-154.0	661.0	631.9	29.15	22.673			
6,600.0	6,561.1	6,569.8	6,559.1	17.5	14.8	-90.32	180.5	-154.0	661.0	631.4	29.58	22.349			
6,700.0	6,661.1	6,669.8	6,659.1	17.6	15.0	-90.32	180.5	-154.0	661.0	631.0	30.00	22.033			
6,800.0	6,761.1	6,769.8	6,759.1	17.8	15.2	-90.32	180.5	-154.0	661.0	630.6	30.43	21.725			
6,900.0	6,861.1	6,869.8	6,859.1	18.0	15.4	-90.32	180.5	-154.0	661.0	630.2	30.85	21.425			
7,000.0	6,961.1	6,969.7	6,959.0	18.2	15.6	89.68	180.4	-154.0	661.0	629.8	31.27	21.137			
7,100.0	7,060.3	7,069.0	7,057.5	18.3	15.8	89.69	169.3	-154.0	661.0	629.5	31.54	20.957			
7,200.0	7,155.5	7,168.3	7,152.2	18.4	15.9	89.70	139.7	-154.0	661.0	629.3	31.69	20.858			
7,300.0	7,243.3	7,267.7	7,239.6	18.4	15.9	89.73	92.6	-154.0	661.0	629.2	31.80	20.790			
7,400.0	7,320.3	7,367.2	7,316.5	18.5	16.0	89.77	29.8	-154.0	661.0	629.1	31.95	20.686			
7,500.0	7,383.8	7,466.7	7,380.1	18.6	16.1	89.82	-46.6	-154.0	661.0	628.7	32.28	20.475			
7,600.0	7,431.5	7,566.4	7,428.1	18.7	16.4	89.87	-133.7	-154.0	661.0	628.1	32.89	20.099			
7,700.0	7,461.5	7,666.1	7,458.7	19.0	16.8	89.93	-228.5	-154.0	661.0	627.2	33.83	19.538			
7,800.0	7,472.8	7,766.1	7,470.7	19.5	17.5	89.99	-327.6	-154.0	661.0	625.9	35.12	18.820			
7,837.3	7,473.3	7,803.3	7,470.8	19.7	17.8	89.96	-364.8	-154.0	661.0	625.3	35.71	18.512			
7,900.0	7,472.6	7,866.1	7,470.6	20.2	18.3	90.00	-427.6	-154.0	661.0	624.3	36.76	17.983			
8,000.0	7,472.2	7,966.1	7,470.2	21.0	19.3	90.00	-527.6	-154.0	661.0	622.3	38.69	17.086			
8,100.0	7,471.9	8,066.1	7,469.9	22.0	20.4	90.00	-627.6	-154.0	661.0	620.1	40.89	16.167			
8,200.0	7,471.5	8,166.1	7,469.5	23.1	21.6	90.00	-727.6	-154.0	661.0	617.7	43.31	15.262			
8,300.0	7,471.2	8,266.1	7,469.2	24.3	22.9	90.00	-827.6	-154.0	661.0	615.1	45.93	14.392			
8,400.0	7,470.8	8,366.1	7,468.8	25.7	24.3	90.00	-927.6	-154.0	661.0	612.3	48.71	13.571			
8,500.0	7,470.5	8,466.1	7,468.5	27.0	25.8	90.00	-1,027.6	-154.0	661.0	609.4	51.62	12.805			
8,600.0	7,470.1	8,566.1	7,468.1	28.5	27.3	90.00	-1,127.6	-154.0	661.0	606.4	54.65	12.095			
8,700.0	7,469.8	8,666.1	7,467.8	30.0	28.9	90.00	-1,227.6	-154.0	661.0	603.2	57.77	11.441			
8,800.0	7,469.4	8,766.1	7,467.4	31.5	30.5	90.00	-1,327.6	-154.0	661.0	600.0	60.98	10.840			
8,900.0	7,469.1	8,866.1	7,467.1	33.1	32.1	90.00	-1,427.6	-154.0	661.0	596.8	64.25	10.288			
9,000.0	7,468.7	8,966.1	7,466.7	34.7	33.8	90.00	-1,527.6	-154.0	661.0	593.4	67.58	9.781			
9,100.0	7,468.4	9,066.1	7,466.4	36.4	35.5	90.00	-1,627.6	-154.0	661.0	590.1	70.96	9.315			
9,200.0	7,468.0	9,166.1	7,466.0	38.1	37.2	90.00	-1,727.6	-154.0	661.0	586.6	74.39	8.886			
9,300.0	7,467.7	9,266.1	7,465.7	39.8	38.9	90.00	-1,827.6	-154.0	661.0	583.2	77.85	8.491			
9,400.0	7,467.3	9,366.1	7,465.3	41.5	40.7	90.00	-1,927.6	-154.0	661.0	579.7	81.35	8.126			
9,500.0	7,467.0	9,466.1	7,465.0	43.2	42.4	90.00	-2,027.6	-154.0	661.0	576.1	84.87	7.788			
9,600.0	7,466.6	9,566.1	7,464.6	44.9	44.2	90.00	-2,127.6	-154.0	661.0	572.6	88.42	7.476			
9,700.0	7,466.3	9,666.1	7,464.3	46.7	46.0	90.00	-2,227.6	-154.0	661.0	569.0	92.00	7.185			
9,800.0	7,465.9	9,766.1	7,463.9	48.5	47.8	90.00	-2,327.6	-154.0	661.0	565.4	95.59	6.915			
9,900.0	7,465.6	9,866.1	7,463.6	50.3	49.6	90.00	-2,427.6	-154.0	661.0	561.8	99.20	6.663			
10,000.0	7,465.2	9,966.1	7,463.2	52.0	51.4	90.00	-2,527.6	-154.0	661.0	558.2	102.83	6.428			
10,100.0	7,464.9	10,066.1	7,462.9	53.8	53.2	90.00	-2,627.6	-154.0	661.0	554.5	106.47	6.209			
10,200.0	7,464.5	10,166.1	7,462.5	55.6	55.1	90.00	-2,727.6	-154.0	661.0	550.9	110.12	6.003			

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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	7,464.2	10,266.1	7,462.2	57.5	56.9	90.00	-2,827.6	-154.0	661.0	547.2	113.79	5.809			
10,400.0	7,463.8	10,366.1	7,461.8	59.3	58.7	90.00	-2,927.6	-154.0	661.0	543.6	117.46	5.627			
10,500.0	7,463.5	10,466.1	7,461.5	61.1	60.6	90.00	-3,027.6	-154.0	661.0	539.9	121.15	5.456			
10,600.0	7,463.1	10,566.1	7,461.1	62.9	62.4	90.00	-3,127.6	-154.0	661.0	536.2	124.84	5.295			
10,700.0	7,462.8	10,666.1	7,460.8	64.8	64.3	90.00	-3,227.6	-154.0	661.0	532.5	128.55	5.142			
10,800.0	7,462.4	10,766.1	7,460.4	66.6	66.1	90.00	-3,327.6	-154.0	661.0	528.8	132.26	4.998			
10,900.0	7,462.1	10,866.1	7,460.1	68.5	68.0	90.00	-3,427.6	-154.0	661.0	525.0	135.97	4.861			
11,000.0	7,461.7	10,966.1	7,459.7	70.3	69.8	90.00	-3,527.6	-154.0	661.0	521.3	139.70	4.732			
11,100.0	7,461.4	11,066.1	7,459.4	72.2	71.7	90.00	-3,627.6	-154.0	661.0	517.6	143.42	4.609			
11,200.0	7,461.0	11,166.1	7,459.0	74.0	73.6	90.00	-3,727.6	-154.0	661.0	513.9	147.16	4.492			
11,300.0	7,460.7	11,266.1	7,458.7	75.9	75.4	90.00	-3,827.6	-154.0	661.0	510.1	150.90	4.381			
11,400.0	7,460.3	11,366.1	7,458.4	77.7	77.3	90.00	-3,927.6	-154.0	661.0	506.4	154.64	4.275			
11,500.0	7,460.0	11,466.1	7,458.0	79.6	79.2	90.00	-4,027.6	-154.0	661.0	502.6	158.39	4.173			
11,600.0	7,459.6	11,566.1	7,457.7	81.5	81.1	90.00	-4,127.6	-154.0	661.0	498.9	162.14	4.077			
11,700.0	7,459.3	11,666.1	7,457.3	83.3	82.9	90.00	-4,227.6	-154.0	661.0	495.1	165.89	3.985			
11,800.0	7,458.9	11,766.1	7,457.0	85.2	84.8	90.00	-4,327.6	-154.0	661.0	491.4	169.65	3.896			
11,900.0	7,458.6	11,866.1	7,456.6	87.1	86.7	90.00	-4,427.6	-154.0	661.0	487.6	173.41	3.812			
12,000.0	7,458.2	11,966.1	7,456.3	89.0	88.6	90.00	-4,527.6	-154.0	661.0	483.8	177.18	3.731			
12,069.8	7,458.0	12,035.8	7,456.0	90.3	89.9	90.00	-4,597.3	-154.0	661.0	481.2	179.80	3.676 SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	0.0	0.0	0.0	0.0	-90.00	0.0	-44.8	44.9						
100.0	100.0	98.0	98.0	0.1	0.1	-90.00	0.0	-44.8	44.8	44.6	0.22	201.360			
200.0	200.0	198.0	198.0	0.3	0.3	-90.00	0.0	-44.8	44.8	44.1	0.67	66.896			
300.0	300.0	298.0	298.0	0.6	0.6	-90.00	0.0	-44.8	44.8	43.7	1.12	40.030			
400.0	400.0	398.0	398.0	0.8	0.8	-90.00	0.0	-44.8	44.8	43.2	1.57	28.560			
500.0	500.0	498.0	498.0	1.0	1.0	-90.00	0.0	-44.8	44.8	42.8	2.02	22.199			
600.0	600.0	598.0	598.0	1.2	1.2	-90.00	0.0	-44.8	44.8	42.3	2.47	18.156			
700.0	700.0	698.0	698.0	1.5	1.5	-90.00	0.0	-44.8	44.8	41.9	2.92	15.358			
800.0	800.0	798.0	798.0	1.7	1.7	-90.00	0.0	-44.8	44.8	41.4	3.37	13.308			
900.0	900.0	898.0	898.0	1.9	1.9	-90.00	0.0	-44.8	44.8	41.0	3.82	11.740			
1,000.0	1,000.0	998.0	998.0	2.1	2.1	-90.00	0.0	-44.8	44.8	40.5	4.27	10.503 CC, ES			
1,100.0	1,100.0	1,098.0	1,098.0	2.4	2.4	-160.76	0.0	-44.8	46.5	41.7	4.71	9.872			
1,200.0	1,199.8	1,197.8	1,197.8	2.6	2.6	-162.65	0.0	-44.8	51.4	46.3	5.13	10.014			
1,300.0	1,299.5	1,297.5	1,297.5	2.8	2.8	-165.10	0.0	-44.8	59.8	54.2	5.56	10.751			
1,400.0	1,398.7	1,396.7	1,396.7	3.0	3.0	-167.55	0.0	-44.8	71.6	65.7	5.99	11.970			
1,500.0	1,497.6	1,495.6	1,495.6	3.3	3.2	-169.66	0.0	-44.8	86.2	79.7	6.42	13.420			
1,600.0	1,596.5	1,594.5	1,594.5	3.6	3.5	-171.18	0.0	-44.8	100.9	94.0	6.86	14.702			
1,700.0	1,695.4	1,693.4	1,693.4	3.9	3.7	-172.31	0.0	-44.8	115.7	108.4	7.31	15.828			
1,800.0	1,794.2	1,792.2	1,792.2	4.2	3.9	-173.19	0.0	-44.8	130.5	122.8	7.76	16.823			
1,900.0	1,893.1	1,891.1	1,891.1	4.5	4.1	-173.89	0.0	-44.8	145.4	137.1	8.21	17.707			
2,000.0	1,992.0	1,990.0	1,990.0	4.8	4.4	-174.46	0.0	-44.8	160.2	151.6	8.66	18.497			
2,100.0	2,090.9	2,088.9	2,088.9	5.2	4.6	-174.93	0.0	-44.8	175.1	166.0	9.12	19.206			
2,200.0	2,189.7	2,187.7	2,187.7	5.5	4.8	-175.33	0.0	-44.8	190.0	180.4	9.57	19.846			
2,300.0	2,288.6	2,286.6	2,286.6	5.8	5.0	-175.67	0.0	-44.8	204.9	194.9	10.03	20.427			
2,400.0	2,387.5	2,385.5	2,385.5	6.2	5.2	-175.96	0.0	-44.8	219.8	209.3	10.49	20.955			
2,500.0	2,486.4	2,484.4	2,484.4	6.5	5.5	-176.22	0.0	-44.8	234.7	223.8	10.95	21.437			
2,600.0	2,585.3	2,585.5	2,585.4	6.8	5.7	-176.17	1.3	-44.8	249.2	237.8	11.41	21.840			
2,700.0	2,684.1	2,687.1	2,687.0	7.2	5.9	-175.38	6.1	-44.7	262.8	250.9	11.88	22.125			
2,800.0	2,783.0	2,788.7	2,788.2	7.5	6.2	-173.94	14.5	-44.6	275.4	263.1	12.35	22.309			
2,900.0	2,881.9	2,889.1	2,888.0	7.9	6.4	-171.99	26.2	-44.4	287.5	274.7	12.82	22.417			
3,000.0	2,980.8	2,987.9	2,986.0	8.2	6.6	-170.08	38.5	-44.2	299.7	286.4	13.31	22.511			
3,100.0	3,079.6	3,086.7	3,084.0	8.6	6.9	-168.32	50.7	-44.0	312.2	298.3	13.81	22.603			
3,200.0	3,178.5	3,185.4	3,182.0	8.9	7.1	-166.70	63.0	-43.8	324.9	310.6	14.32	22.691			
3,300.0	3,277.4	3,284.2	3,280.0	9.3	7.3	-165.20	75.2	-43.6	337.9	323.1	14.84	22.775			
3,400.0	3,376.3	3,383.0	3,378.0	9.6	7.6	-163.81	87.5	-43.4	351.1	335.8	15.36	22.854			
3,500.0	3,475.2	3,481.8	3,476.0	10.0	7.9	-162.52	99.8	-43.1	364.5	348.6	15.90	22.930			
3,600.0	3,574.0	3,580.5	3,574.0	10.3	8.1	-161.32	112.0	-42.9	378.1	361.7	16.44	23.001			
3,700.0	3,672.9	3,679.3	3,672.0	10.7	8.4	-160.21	124.3	-42.7	391.8	374.8	16.98	23.069			
3,800.0	3,771.8	3,778.1	3,770.0	11.0	8.7	-159.17	136.5	-42.5	405.7	388.1	17.54	23.133			
3,900.0	3,870.7	3,876.9	3,868.1	11.4	8.9	-158.20	148.8	-42.3	419.6	401.6	18.09	23.193			
4,000.0	3,969.5	3,975.7	3,966.2	11.7	9.2	-157.30	161.0	-42.1	433.7	415.1	18.65	23.259			
4,100.0	4,068.4	4,075.1	4,065.1	12.1	9.4	-156.77	170.9	-42.0	447.8	428.7	19.14	23.393			
4,200.0	4,167.3	4,174.7	4,164.5	12.5	9.6	-156.69	177.3	-41.9	461.8	442.2	19.60	23.557			
4,300.0	4,266.2	4,274.3	4,264.0	12.8	9.8	-157.05	180.3	-41.8	475.7	455.6	20.03	23.744			
4,400.0	4,365.0	4,373.4	4,363.0	13.2	10.0	-157.70	180.5	-41.8	489.5	469.0	20.45	23.934			
4,500.0	4,463.9	4,472.3	4,461.9	13.5	10.2	-158.35	180.5	-41.8	503.4	482.5	20.89	24.095			
4,600.0	4,562.8	4,571.1	4,560.8	13.9	10.4	-158.96	180.5	-41.8	517.3	496.0	21.34	24.245			
4,700.0	4,661.9	4,670.2	4,659.9	14.2	10.6	-159.56	180.5	-41.8	530.0	508.2	21.80	24.316			
4,800.0	4,761.4	4,769.7	4,759.4	14.4	10.8	-160.00	180.5	-41.8	539.4	517.2	22.21	24.285			
4,900.0	4,861.1	4,869.5	4,859.1	14.6	11.0	-160.28	180.5	-41.8	545.6	523.0	22.61	24.136			
5,000.0	4,961.1	4,969.4	4,959.1	14.8	11.2	-160.41	180.5	-41.8	548.5	525.6	22.97	23.876			
5,100.0	5,061.1	5,069.4	5,059.1	14.9	11.5	-90.39	180.5	-41.8	548.8	525.4	23.36	23.497			

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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	5,161.1	5,169.4	5,159.1	15.1	11.7	-90.39	180.5	-41.8	548.8	525.0	23.77	23.092			
5,300.0	5,261.1	5,269.4	5,259.1	15.2	11.9	-90.39	180.5	-41.8	548.8	524.6	24.18	22.700			
5,400.0	5,361.1	5,369.4	5,359.1	15.4	12.1	-90.39	180.5	-41.8	548.8	524.2	24.59	22.320			
5,500.0	5,461.1	5,469.4	5,459.1	15.6	12.3	-90.39	180.5	-41.8	548.8	523.8	25.00	21.951			
5,600.0	5,561.1	5,569.4	5,559.1	15.7	12.5	-90.39	180.5	-41.8	548.8	523.4	25.42	21.593			
5,700.0	5,661.1	5,669.4	5,659.1	15.9	12.8	-90.39	180.5	-41.8	548.8	523.0	25.83	21.245			
5,800.0	5,761.1	5,769.4	5,759.1	16.1	13.0	-90.39	180.5	-41.8	548.8	522.5	26.25	20.908			
5,900.0	5,861.1	5,869.4	5,859.1	16.2	13.2	-90.39	180.5	-41.8	548.8	522.1	26.67	20.580			
6,000.0	5,961.1	5,969.4	5,959.1	16.4	13.4	-90.39	180.5	-41.8	548.8	521.7	27.09	20.262			
6,100.0	6,061.1	6,069.4	6,059.1	16.6	13.6	-90.39	180.5	-41.8	548.8	521.3	27.51	19.953			
6,200.0	6,161.1	6,169.4	6,159.1	16.8	13.8	-90.39	180.5	-41.8	548.8	520.9	27.93	19.652			
6,300.0	6,261.1	6,269.4	6,259.1	16.9	14.1	-90.39	180.5	-41.8	548.8	520.4	28.35	19.360			
6,400.0	6,361.1	6,369.4	6,359.1	17.1	14.3	-90.39	180.5	-41.8	548.8	520.0	28.77	19.075			
6,500.0	6,461.1	6,469.4	6,459.1	17.3	14.5	-90.39	180.5	-41.8	548.8	519.6	29.19	18.799			
6,600.0	6,561.1	6,569.4	6,559.1	17.5	14.7	-90.39	180.5	-41.8	548.8	519.2	29.62	18.530			
6,700.0	6,661.1	6,669.4	6,659.1	17.6	14.9	-90.39	180.5	-41.8	548.8	518.8	30.04	18.268			
6,800.0	6,761.1	6,769.5	6,759.2	17.8	15.1	-90.41	180.3	-41.8	548.8	518.3	30.46	18.017			
6,834.9	6,796.0	6,804.4	6,794.0	17.9	15.2	-90.64	178.1	-41.8	548.8	518.2	30.59	17.943			
6,900.0	6,861.1	6,868.1	6,856.9	18.0	15.3	-91.67	168.2	-41.7	548.9	518.1	30.76	17.843			
7,000.0	6,961.1	6,959.2	6,943.7	18.2	15.3	85.46	140.8	-41.4	550.3	519.3	30.96	17.773			
7,100.0	7,060.3	7,043.4	7,018.5	18.3	15.4	81.99	102.4	-40.9	553.9	522.8	31.05	17.840			
7,200.0	7,155.5	7,123.9	7,083.4	18.4	15.5	78.81	55.0	-40.4	558.8	527.7	31.08	17.980			
7,300.0	7,243.3	7,200.0	7,137.3	18.4	15.5	76.04	1.3	-39.8	564.4	533.4	31.08	18.164			
7,400.0	7,320.3	7,277.1	7,183.4	18.5	15.7	73.63	-60.4	-39.1	570.0	538.9	31.08	18.342			
7,500.0	7,383.8	7,350.0	7,218.2	18.6	15.9	71.75	-124.4	-38.4	574.9	543.7	31.13	18.468			
7,600.0	7,431.5	7,424.0	7,244.0	18.7	16.2	70.36	-193.6	-37.7	578.5	547.2	31.35	18.453			
7,700.0	7,461.5	7,500.0	7,260.0	19.0	16.7	69.50	-267.9	-36.8	580.6	548.8	31.84	18.237			
7,800.0	7,472.8	7,567.9	7,265.1	19.5	17.2	69.24	-335.5	-36.1	580.8	548.2	32.62	17.805			
7,900.0	7,472.6	7,665.0	7,264.6	20.2	18.0	69.20	-432.6	-35.0	579.8	545.7	34.11	16.996			
8,000.0	7,472.2	7,765.0	7,264.2	21.0	19.0	69.15	-532.6	-33.9	578.8	542.9	35.93	16.110			
8,100.0	7,471.9	7,865.0	7,263.7	22.0	20.2	69.10	-632.6	-32.8	577.8	539.8	38.00	15.206			
8,200.0	7,471.5	7,965.0	7,263.2	23.1	21.4	69.05	-732.6	-31.7	576.8	536.5	40.29	14.317			
8,300.0	7,471.2	8,065.0	7,262.8	24.3	22.7	69.00	-832.6	-30.6	575.8	533.1	42.76	13.467			
8,400.0	7,470.8	8,165.0	7,262.3	25.7	24.2	68.95	-932.6	-29.5	574.8	529.5	45.38	12.667			
8,500.0	7,470.5	8,265.0	7,261.8	27.0	25.6	68.89	-1,032.5	-28.4	573.9	525.7	48.13	11.924			
8,600.0	7,470.1	8,365.0	7,261.3	28.5	27.2	68.84	-1,132.5	-27.2	572.9	521.9	50.98	11.237			
8,700.0	7,469.8	8,464.9	7,260.9	30.0	28.8	68.79	-1,232.5	-26.1	571.9	518.0	53.92	10.606			
8,800.0	7,469.4	8,564.9	7,260.4	31.5	30.4	68.74	-1,332.5	-25.0	570.9	513.9	56.94	10.027			
8,900.0	7,469.1	8,664.9	7,259.9	33.1	32.0	68.69	-1,432.5	-23.9	569.9	509.9	60.01	9.496			
9,000.0	7,468.7	8,764.9	7,259.5	34.7	33.7	68.64	-1,532.5	-22.8	568.9	505.8	63.14	9.010			
9,100.0	7,468.4	8,864.9	7,259.0	36.4	35.4	68.58	-1,632.5	-21.7	567.9	501.6	66.32	8.564			
9,200.0	7,468.0	8,964.9	7,258.5	38.1	37.2	68.53	-1,732.4	-20.6	566.9	497.4	69.53	8.154			
9,300.0	7,467.7	9,064.9	7,258.0	39.8	38.9	68.48	-1,832.4	-19.5	565.9	493.2	72.78	7.776			
9,400.0	7,467.3	9,164.9	7,257.6	41.5	40.7	68.43	-1,932.4	-18.4	565.0	488.9	76.05	7.428			
9,500.0	7,467.0	9,264.9	7,257.1	43.2	42.5	68.37	-2,032.4	-17.3	564.0	484.6	79.35	7.107			
9,600.0	7,466.6	9,364.9	7,256.6	44.9	44.2	68.32	-2,132.4	-16.2	563.0	480.3	82.67	6.810			
9,700.0	7,466.3	9,464.9	7,256.2	46.7	46.0	68.27	-2,232.4	-15.1	562.0	476.0	86.01	6.534			
9,800.0	7,465.9	9,564.9	7,255.7	48.5	47.9	68.21	-2,332.4	-13.9	561.0	471.6	89.37	6.278			
9,900.0	7,465.6	9,664.9	7,255.2	50.3	49.7	68.16	-2,432.3	-12.8	560.0	467.3	92.74	6.039			
10,000.0	7,465.2	9,764.9	7,254.7	52.0	51.5	68.11	-2,532.3	-11.7	559.0	462.9	96.12	5.816			
10,100.0	7,464.9	9,864.9	7,254.3	53.8	53.3	68.05	-2,632.3	-10.6	558.1	458.6	99.51	5.608			
10,200.0	7,464.5	9,964.9	7,253.8	55.6	55.2	68.00	-2,732.3	-9.5	557.1	454.2	102.92	5.413			

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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	7,464.2	10,064.8	7,253.3	57.5	57.0	67.94	-2,832.3	-8.4	556.1	449.8	106.33	5.230			
10,400.0	7,463.8	10,164.8	7,252.9	59.3	58.8	67.89	-2,932.3	-7.3	555.1	445.4	109.75	5.058			
10,500.0	7,463.5	10,264.8	7,252.4	61.1	60.7	67.83	-3,032.3	-6.2	554.1	441.0	113.17	4.897			
10,600.0	7,463.1	10,364.8	7,251.9	62.9	62.6	67.78	-3,132.3	-5.1	553.2	436.6	116.60	4.744			
10,700.0	7,462.8	10,464.8	7,251.5	64.8	64.4	67.72	-3,232.2	-4.0	552.2	432.1	120.03	4.600			
10,800.0	7,462.4	10,564.8	7,251.0	66.6	66.3	67.67	-3,332.2	-2.9	551.2	427.7	123.47	4.464			
10,900.0	7,462.1	10,664.8	7,250.5	68.5	68.1	67.61	-3,432.2	-1.7	550.2	423.3	126.91	4.335			
11,000.0	7,461.7	10,764.8	7,250.0	70.3	70.0	67.56	-3,532.2	-0.6	549.2	418.9	130.36	4.213			
11,100.0	7,461.4	10,864.8	7,249.6	72.2	71.9	67.50	-3,632.2	0.5	548.3	414.5	133.81	4.097			
11,200.0	7,461.0	10,964.8	7,249.1	74.0	73.8	67.44	-3,732.2	1.6	547.3	410.0	137.26	3.987			
11,300.0	7,460.7	11,064.8	7,248.6	75.9	75.6	67.39	-3,832.2	2.7	546.3	405.6	140.71	3.883			
11,400.0	7,460.3	11,164.8	7,248.2	77.7	77.5	67.33	-3,932.1	3.8	545.3	401.2	144.16	3.783			
11,500.0	7,460.0	11,264.8	7,247.7	79.6	79.4	67.27	-4,032.1	4.9	544.4	396.7	147.62	3.688			
11,600.0	7,459.6	11,364.8	7,247.2	81.5	81.3	67.22	-4,132.1	6.0	543.4	392.3	151.07	3.597			
11,700.0	7,459.3	11,464.8	7,246.7	83.3	83.2	67.16	-4,232.1	7.1	542.4	387.9	154.53	3.510			
11,800.0	7,458.9	11,564.8	7,246.3	85.2	85.0	67.10	-4,332.1	8.2	541.4	383.4	157.99	3.427			
11,900.0	7,458.6	11,664.7	7,245.8	87.1	86.9	67.04	-4,432.1	9.3	540.5	379.0	161.44	3.348			
12,000.0	7,458.2	11,764.7	7,245.3	89.0	88.8	66.99	-4,532.1	10.4	539.5	374.6	164.90	3.272			
12,069.8	7,458.0	11,834.5	7,245.0	90.3	90.1	66.95	-4,601.8	11.2	538.8	371.5	167.30	3.221 SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	0.0	0.0	0.0	0.0	-90.00	0.0	-30.8	30.8						
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-30.8	30.8	30.6	0.22	137.741			
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-30.8	30.8	30.1	0.67	45.837			
300.0	300.0	299.0	299.0	0.6	0.6	-90.00	0.0	-30.8	30.8	29.7	1.12	27.466			
400.0	400.0	399.0	399.0	0.8	0.8	-90.00	0.0	-30.8	30.8	29.2	1.57	19.607			
500.0	500.0	499.0	499.0	1.0	1.0	-90.00	0.0	-30.8	30.8	28.8	2.02	15.245			
600.0	600.0	599.0	599.0	1.2	1.2	-90.00	0.0	-30.8	30.8	28.3	2.47	12.471			
700.0	700.0	699.0	699.0	1.5	1.5	-90.00	0.0	-30.8	30.8	27.9	2.92	10.551			
800.0	800.0	799.0	799.0	1.7	1.7	-90.00	0.0	-30.8	30.8	27.4	3.37	9.143			
900.0	900.0	899.0	899.0	1.9	1.9	-90.00	0.0	-30.8	30.8	27.0	3.82	8.067			
1,000.0	1,000.0	999.0	999.0	2.1	2.1	-90.00	0.0	-30.8	30.8	26.5	4.27	7.217 CC, ES			
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.4	-161.07	0.0	-30.8	32.5	27.7	4.71	6.893			
1,200.0	1,199.8	1,198.8	1,198.8	2.6	2.6	-163.64	0.0	-30.8	37.4	32.3	5.14	7.288			
1,300.0	1,299.5	1,298.5	1,298.5	2.8	2.8	-166.67	0.0	-30.8	45.9	40.3	5.56	8.244			
1,400.0	1,398.7	1,397.7	1,397.7	3.0	3.0	-169.41	0.0	-30.8	57.8	51.8	5.99	9.654			
1,500.0	1,497.6	1,498.7	1,498.7	3.3	3.3	-170.91	1.1	-29.5	70.9	64.5	6.42	11.054			
1,600.0	1,596.5	1,600.5	1,600.4	3.6	3.5	-170.72	4.6	-25.5	81.2	74.4	6.85	11.849			
1,700.0	1,695.4	1,702.9	1,702.3	3.9	3.7	-169.38	10.5	-18.7	88.5	81.2	7.30	12.114			
1,800.0	1,794.2	1,803.9	1,802.6	4.2	3.9	-167.25	18.3	-9.8	93.2	85.5	7.76	12.013			
1,900.0	1,893.1	1,903.7	1,901.7	4.5	4.2	-165.23	26.3	-0.7	97.8	89.6	8.23	11.887			
2,000.0	1,992.0	2,003.6	2,000.8	4.8	4.5	-163.40	34.2	8.5	102.5	93.8	8.71	11.772			
2,100.0	2,090.9	2,103.4	2,099.9	5.2	4.7	-161.72	42.1	17.6	107.3	98.1	9.20	11.666			
2,200.0	2,189.7	2,203.3	2,199.0	5.5	5.0	-160.20	50.1	26.7	112.2	102.5	9.70	11.567			
2,300.0	2,288.6	2,303.1	2,298.1	5.8	5.3	-158.80	58.0	35.8	117.1	106.9	10.21	11.474			
2,400.0	2,387.5	2,402.9	2,397.2	6.2	5.5	-157.51	66.0	45.0	122.1	111.4	10.73	11.387			
2,500.0	2,486.4	2,502.8	2,496.3	6.5	5.8	-156.33	73.9	54.1	127.2	116.0	11.25	11.305			
2,600.0	2,585.3	2,602.6	2,595.5	6.8	6.1	-155.23	81.9	63.2	132.3	120.5	11.79	11.227			
2,700.0	2,684.1	2,702.4	2,694.6	7.2	6.4	-154.22	89.8	72.3	137.5	125.2	12.33	11.154			
2,800.0	2,783.0	2,802.3	2,793.7	7.5	6.7	-153.28	97.8	81.5	142.7	129.8	12.87	11.084			
2,900.0	2,881.9	2,902.1	2,892.8	7.9	7.0	-152.41	105.7	90.6	147.9	134.5	13.43	11.018			
3,000.0	2,980.8	3,002.0	2,991.9	8.2	7.3	-151.60	113.6	99.7	153.2	139.2	13.98	10.956			
3,100.0	3,079.6	3,101.8	3,091.0	8.6	7.6	-150.84	121.6	108.8	158.5	144.0	14.55	10.897			
3,200.0	3,178.5	3,201.6	3,190.1	8.9	7.9	-150.13	129.5	117.9	163.8	148.7	15.11	10.841			
3,300.0	3,277.4	3,301.5	3,289.2	9.3	8.2	-149.47	137.5	127.1	169.2	153.5	15.68	10.788			
3,400.0	3,376.3	3,401.3	3,388.3	9.6	8.5	-148.85	145.4	136.2	174.6	158.3	16.26	10.737			
3,500.0	3,475.2	3,501.1	3,487.4	10.0	8.8	-148.26	153.4	145.3	179.9	163.1	16.83	10.689			
3,600.0	3,574.0	3,601.0	3,586.5	10.3	9.1	-147.71	161.3	154.4	185.4	167.9	17.41	10.644			
3,700.0	3,672.9	3,700.0	3,684.8	10.7	9.4	-147.24	169.1	163.3	190.9	172.9	17.98	10.615			
3,800.0	3,771.8	3,795.5	3,779.8	11.0	9.6	-147.39	174.9	170.1	198.0	179.5	18.46	10.726			
3,900.0	3,870.7	3,891.0	3,875.1	11.4	9.8	-148.24	178.7	174.4	207.0	188.2	18.87	10.972			
4,000.0	3,969.5	3,985.8	3,970.0	11.7	9.9	-149.68	180.4	176.3	218.2	199.0	19.23	11.348			
4,100.0	4,068.4	4,083.3	4,067.4	12.1	10.1	-151.49	180.5	176.5	231.2	211.6	19.57	11.813			
4,200.0	4,167.3	4,182.1	4,166.3	12.5	10.3	-153.16	180.5	176.5	244.4	224.5	19.93	12.262			
4,300.0	4,266.2	4,281.0	4,265.2	12.8	10.5	-154.65	180.5	176.5	257.9	237.6	20.31	12.697			
4,400.0	4,365.0	4,379.9	4,364.0	13.2	10.7	-156.00	180.5	176.5	271.5	250.8	20.70	13.117			
4,500.0	4,463.9	4,478.8	4,462.9	13.5	10.9	-157.22	180.5	176.5	285.2	264.1	21.09	13.524			
4,600.0	4,562.8	4,577.7	4,561.8	13.9	11.1	-158.33	180.5	176.5	299.1	277.6	21.49	13.917			
4,700.0	4,661.9	4,676.7	4,660.9	14.2	11.3	-159.32	180.5	176.5	311.7	289.8	21.90	14.233			
4,800.0	4,761.4	4,776.2	4,760.4	14.4	11.5	-160.02	180.5	176.5	321.2	298.9	22.28	14.417			
4,900.0	4,861.1	4,876.0	4,860.1	14.6	11.7	-160.46	180.5	176.5	327.4	304.7	22.64	14.459			
5,000.0	4,961.1	4,975.9	4,960.1	14.8	11.9	-160.66	180.5	176.5	330.3	307.3	22.99	14.369			
5,100.0	5,061.1	5,075.9	5,060.1	14.9	12.1	-90.64	180.5	176.5	330.5	307.2	23.36	14.151			

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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	5,161.1	5,175.9	5,160.1	15.1	12.3	-90.64	180.5	176.5	330.5	306.8	23.76	13.909			
5,300.0	5,261.1	5,275.9	5,260.1	15.2	12.5	-90.64	180.5	176.5	330.5	306.4	24.17	13.675			
5,400.0	5,361.1	5,375.9	5,360.1	15.4	12.7	-90.64	180.5	176.5	330.5	306.0	24.58	13.448			
5,500.0	5,461.1	5,475.9	5,460.1	15.6	12.9	-90.64	180.5	176.5	330.5	305.5	24.99	13.227			
5,600.0	5,561.1	5,575.9	5,560.1	15.7	13.1	-90.64	180.5	176.5	330.5	305.1	25.40	13.013			
5,700.0	5,661.1	5,675.9	5,660.1	15.9	13.3	-90.64	180.5	176.5	330.5	304.7	25.81	12.805			
5,800.0	5,761.1	5,775.9	5,760.1	16.1	13.5	-90.64	180.5	176.5	330.5	304.3	26.23	12.603			
5,900.0	5,861.1	5,875.9	5,860.1	16.2	13.7	-90.64	180.5	176.5	330.5	303.9	26.64	12.406			
6,000.0	5,961.1	5,975.9	5,960.1	16.4	13.9	-90.64	180.5	176.5	330.5	303.5	27.06	12.216			
6,100.0	6,061.1	6,075.9	6,060.1	16.6	14.1	-90.64	180.5	176.5	330.5	303.1	27.47	12.030			
6,200.0	6,161.1	6,175.9	6,160.1	16.8	14.3	-90.64	180.5	176.5	330.5	302.6	27.89	11.850			
6,300.0	6,261.1	6,275.9	6,260.1	16.9	14.5	-90.64	180.5	176.5	330.5	302.2	28.31	11.674			
6,400.0	6,361.1	6,375.9	6,360.1	17.1	14.8	-90.64	180.5	176.5	330.5	301.8	28.73	11.504			
6,500.0	6,461.1	6,475.9	6,460.1	17.3	15.0	-90.64	180.5	176.5	330.5	301.4	29.15	11.338			
6,600.0	6,561.1	6,575.9	6,560.1	17.5	15.2	-90.64	180.5	176.5	330.5	301.0	29.57	11.176			
6,700.0	6,661.1	6,675.9	6,660.1	17.6	15.4	-90.64	180.5	176.5	330.5	300.5	30.00	11.019			
6,761.0	6,722.1	6,737.0	6,721.1	17.8	15.5	-90.64	180.5	176.5	330.5	300.3	30.26	10.925			
6,800.0	6,761.1	6,775.8	6,760.0	17.8	15.6	-90.68	180.3	176.5	330.5	300.1	30.41	10.868			
6,900.0	6,861.1	6,873.4	6,856.6	18.0	15.7	-92.73	168.4	176.5	330.9	300.2	30.67	10.789			
7,000.0	6,961.1	6,963.6	6,942.7	18.2	15.8	82.62	141.6	176.5	333.7	302.9	30.80	10.833			
7,100.0	7,060.3	7,050.0	7,019.5	18.3	15.9	76.86	102.4	176.5	340.3	309.4	30.83	11.037			
7,200.0	7,155.5	7,127.1	7,081.9	18.4	15.9	72.01	57.1	176.5	349.1	318.3	30.79	11.338			
7,300.0	7,243.3	7,200.0	7,134.0	18.4	16.0	67.89	6.2	176.5	359.0	328.4	30.60	11.730			
7,400.0	7,320.3	7,279.8	7,182.3	18.5	16.0	64.22	-57.1	176.5	368.6	338.4	30.27	12.179			
7,500.0	7,383.8	7,350.0	7,216.4	18.6	16.2	61.59	-118.5	176.5	377.2	347.3	29.84	12.641			
7,600.0	7,431.5	7,426.3	7,243.8	18.7	16.4	59.60	-189.6	176.5	383.8	354.3	29.50	13.008			
7,700.0	7,461.5	7,500.0	7,260.0	19.0	16.8	58.45	-261.5	176.5	388.0	358.5	29.45	13.175			
7,800.0	7,472.8	7,570.1	7,266.0	19.5	17.3	58.08	-331.2	176.5	389.4	359.5	29.84	13.048			
7,804.5	7,472.9	7,573.3	7,266.0	19.5	17.3	58.08	-334.4	176.5	389.4	359.5	29.89	13.028			
7,900.0	7,472.6	7,665.5	7,265.7	20.2	18.1	58.08	-426.6	176.5	389.4	358.3	31.14	12.504			
8,000.0	7,472.2	7,765.5	7,265.2	21.0	19.1	58.06	-526.6	176.5	389.5	356.7	32.78	11.882			
8,100.0	7,471.9	7,865.5	7,264.7	22.0	20.2	58.05	-626.6	176.5	389.5	354.9	34.66	11.239			
8,200.0	7,471.5	7,965.5	7,264.2	23.1	21.4	58.03	-726.6	176.5	389.6	352.8	36.75	10.602			
8,300.0	7,471.2	8,065.5	7,263.8	24.3	22.8	58.02	-826.6	176.5	389.7	350.6	39.01	9.989			
8,400.0	7,470.8	8,165.5	7,263.3	25.7	24.2	58.00	-926.6	176.5	389.7	348.3	41.42	9.410			
8,500.0	7,470.5	8,265.5	7,262.8	27.0	25.6	57.99	-1,026.6	176.5	389.8	345.8	43.94	8.870			
8,600.0	7,470.1	8,365.5	7,262.4	28.5	27.2	57.97	-1,126.6	176.5	389.9	343.3	46.57	8.371			
8,700.0	7,469.8	8,465.5	7,261.9	30.0	28.7	57.96	-1,226.6	176.5	389.9	340.6	49.28	7.912			
8,800.0	7,469.4	8,565.5	7,261.4	31.5	30.3	57.94	-1,326.6	176.5	390.0	337.9	52.07	7.490			
8,900.0	7,469.1	8,665.5	7,260.9	33.1	32.0	57.93	-1,426.6	176.5	390.0	335.1	54.91	7.103			
9,000.0	7,468.7	8,765.5	7,260.5	34.7	33.7	57.91	-1,526.6	176.5	390.1	332.3	57.81	6.748			
9,100.0	7,468.4	8,865.5	7,260.0	36.4	35.4	57.89	-1,626.6	176.5	390.2	329.4	60.75	6.423			
9,200.0	7,468.0	8,965.5	7,259.5	38.1	37.1	57.88	-1,726.6	176.5	390.2	326.5	63.73	6.124			
9,300.0	7,467.7	9,065.5	7,259.1	39.8	38.8	57.86	-1,826.6	176.5	390.3	323.6	66.74	5.849			
9,400.0	7,467.3	9,165.5	7,258.6	41.5	40.6	57.85	-1,926.6	176.5	390.4	320.6	69.77	5.595			
9,500.0	7,467.0	9,265.5	7,258.1	43.2	42.3	57.83	-2,026.6	176.5	390.4	317.6	72.84	5.361			
9,600.0	7,466.6	9,365.5	7,257.6	44.9	44.1	57.82	-2,126.6	176.5	390.5	314.6	75.92	5.144			
9,700.0	7,466.3	9,465.5	7,257.2	46.7	45.9	57.80	-2,226.6	176.5	390.6	311.5	79.02	4.943			
9,800.0	7,465.9	9,565.5	7,256.7	48.5	47.7	57.79	-2,326.6	176.5	390.6	308.5	82.14	4.756			
9,900.0	7,465.6	9,665.5	7,256.2	50.3	49.5	57.77	-2,426.6	176.5	390.7	305.4	85.27	4.582			
10,000.0	7,465.2	9,765.5	7,255.8	52.0	51.3	57.76	-2,526.6	176.5	390.8	302.3	88.42	4.419			
10,100.0	7,464.9	9,865.5	7,255.3	53.8	53.1	57.74	-2,626.6	176.5	390.8	299.3	91.58	4.268			

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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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			
10,200.0	7,464.5	9,965.5	7,254.8	55.6	55.0	57.73	-2,726.6	176.5	390.9	296.1	94.74	4.126			
10,300.0	7,464.2	10,065.5	7,254.3	57.5	56.8	57.71	-2,826.6	176.5	391.0	293.0	97.92	3.993			
10,400.0	7,463.8	10,165.5	7,253.9	59.3	58.6	57.70	-2,926.6	176.5	391.0	289.9	101.11	3.867			
10,500.0	7,463.5	10,265.5	7,253.4	61.1	60.5	57.68	-3,026.6	176.5	391.1	286.8	104.30	3.750			
10,600.0	7,463.1	10,365.5	7,252.9	62.9	62.3	57.67	-3,126.6	176.5	391.2	283.7	107.50	3.639			
10,700.0	7,462.8	10,465.5	7,252.5	64.8	64.2	57.65	-3,226.6	176.5	391.2	280.5	110.70	3.534			
10,800.0	7,462.4	10,565.5	7,252.0	66.6	66.1	57.64	-3,326.6	176.5	391.3	277.4	113.91	3.435			
10,900.0	7,462.1	10,665.5	7,251.5	68.5	67.9	57.62	-3,426.6	176.5	391.4	274.2	117.13	3.341			
11,000.0	7,461.7	10,765.5	7,251.0	70.3	69.8	57.61	-3,526.6	176.5	391.4	271.1	120.35	3.252			
11,100.0	7,461.4	10,865.5	7,250.6	72.2	71.6	57.59	-3,626.6	176.5	391.5	267.9	123.57	3.168			
11,200.0	7,461.0	10,965.5	7,250.1	74.0	73.5	57.58	-3,726.6	176.5	391.5	264.7	126.80	3.088			
11,300.0	7,460.7	11,065.5	7,249.6	75.9	75.4	57.56	-3,826.6	176.5	391.6	261.6	130.03	3.012			
11,400.0	7,460.3	11,165.5	7,249.2	77.7	77.3	57.55	-3,926.6	176.5	391.7	258.4	133.27	2.939			
11,500.0	7,460.0	11,265.5	7,248.7	79.6	79.1	57.53	-4,026.6	176.5	391.7	255.2	136.50	2.870			
11,600.0	7,459.6	11,365.5	7,248.2	81.5	81.0	57.52	-4,126.6	176.5	391.8	252.1	139.74	2.804			
11,700.0	7,459.3	11,465.5	7,247.7	83.3	82.9	57.50	-4,226.6	176.5	391.9	248.9	142.98	2.741			
11,800.0	7,458.9	11,565.5	7,247.3	85.2	84.8	57.49	-4,326.6	176.5	391.9	245.7	146.22	2.680			
11,900.0	7,458.6	11,665.5	7,246.8	87.1	86.6	57.47	-4,426.6	176.5	392.0	242.5	149.47	2.623			
12,000.0	7,458.2	11,765.5	7,246.3	89.0	88.5	57.46	-4,526.6	176.5	392.1	239.4	152.72	2.567			
12,069.8	7,458.0	11,835.2	7,246.0	90.3	89.7	57.45	-4,596.3	176.5	392.1	237.3	154.86	2.532 SF			

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-8N - 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	0.0	0.0	0.0	0.0	-90.01	0.0	-16.8	16.8	16.8	0.00	N/A				
100.0	100.0	99.0	99.0	0.1	0.1	-90.01	0.0	-16.8	16.8	16.6	0.22	75.131				
200.0	200.0	199.0	199.0	0.3	0.3	-90.01	0.0	-16.8	16.8	16.1	0.67	25.002				
300.0	300.0	299.0	299.0	0.6	0.6	-90.01	0.0	-16.8	16.8	15.7	1.12	14.981				
400.0	400.0	399.0	399.0	0.8	0.8	-90.01	0.0	-16.8	16.8	15.2	1.57	10.695				
500.0	500.0	499.0	499.0	1.0	1.0	-90.01	0.0	-16.8	16.8	14.8	2.02	8.316				
600.0	600.0	599.0	599.0	1.2	1.2	-90.01	0.0	-16.8	16.8	14.3	2.47	6.802				
700.0	700.0	699.0	699.0	1.5	1.5	-90.01	0.0	-16.8	16.8	13.9	2.92	5.755				
800.0	800.0	799.0	799.0	1.7	1.7	-90.01	0.0	-16.8	16.8	13.4	3.37	4.987				
900.0	900.0	899.0	899.0	1.9	1.9	-90.01	0.0	-16.8	16.8	13.0	3.82	4.400				
1,000.0	1,000.0	999.0	999.0	2.1	2.1	-90.01	0.0	-16.8	16.8	12.5	4.27	3.937 CC, ES				
1,100.0	1,100.0	1,099.0	1,099.0	2.4	2.4	-161.89	0.0	-16.8	18.5	13.7	4.71	3.920				
1,200.0	1,199.8	1,198.8	1,198.8	2.6	2.6	-165.83	0.0	-16.8	23.5	18.3	5.14	4.571				
1,300.0	1,299.5	1,299.5	1,299.5	2.8	2.8	-168.68	0.8	-15.3	30.4	24.8	5.56	5.468				
1,400.0	1,398.7	1,400.4	1,400.2	3.0	3.0	-169.79	3.2	-10.6	37.4	31.4	5.96	6.271				
1,500.0	1,497.6	1,501.5	1,501.0	3.3	3.2	-169.79	7.2	-2.7	43.6	37.3	6.39	6.831				
1,600.0	1,596.5	1,602.4	1,601.2	3.6	3.5	-168.62	12.8	8.1	46.9	40.1	6.83	6.865				
1,700.0	1,695.4	1,702.4	1,700.3	3.9	3.7	-167.32	18.6	19.4	49.5	42.2	7.28	6.793				
1,800.0	1,794.2	1,802.4	1,799.4	4.2	4.0	-166.15	24.4	30.8	52.1	44.4	7.75	6.726				
1,900.0	1,893.1	1,902.3	1,898.6	4.5	4.3	-165.10	30.3	42.1	54.7	46.5	8.21	6.662				
2,000.0	1,992.0	2,002.3	1,997.7	4.8	4.6	-164.14	36.1	53.5	57.4	48.7	8.69	6.602				
2,100.0	2,090.9	2,102.2	2,096.9	5.2	4.9	-163.27	41.9	64.8	60.0	50.9	9.17	6.545				
2,200.0	2,189.7	2,202.2	2,196.0	5.5	5.1	-162.47	47.8	76.2	62.7	53.0	9.66	6.490				
2,300.0	2,288.6	2,302.2	2,295.2	5.8	5.4	-161.74	53.6	87.5	65.4	55.2	10.16	6.439				
2,400.0	2,387.5	2,402.1	2,394.3	6.2	5.7	-161.06	59.4	98.9	68.1	57.4	10.66	6.390				
2,500.0	2,486.4	2,502.1	2,493.4	6.5	6.0	-160.44	65.3	110.2	70.8	59.6	11.16	6.344				
2,600.0	2,585.3	2,602.1	2,592.6	6.8	6.3	-159.86	71.1	121.6	73.5	61.8	11.67	6.300				
2,700.0	2,684.1	2,702.0	2,691.7	7.2	6.7	-159.32	76.9	132.9	76.2	64.0	12.18	6.258				
2,800.0	2,783.0	2,802.0	2,790.9	7.5	7.0	-158.82	82.7	144.2	78.9	66.2	12.69	6.219				
2,900.0	2,881.9	2,901.9	2,890.0	7.9	7.3	-158.36	88.6	155.6	81.7	68.5	13.21	6.181				
3,000.0	2,980.8	3,001.9	2,989.2	8.2	7.6	-157.92	94.4	166.9	84.4	70.7	13.73	6.146				
3,100.0	3,079.6	3,101.9	3,088.3	8.6	7.9	-157.51	100.2	178.3	87.1	72.9	14.26	6.112				
3,200.0	3,178.5	3,201.8	3,187.4	8.9	8.2	-157.13	106.1	189.6	89.9	75.1	14.78	6.080				
3,300.0	3,277.4	3,301.8	3,286.6	9.3	8.5	-156.77	111.9	201.0	92.6	77.3	15.31	6.049				
3,400.0	3,376.3	3,401.7	3,385.7	9.6	8.8	-156.43	117.7	212.3	95.4	79.5	15.84	6.020				
3,500.0	3,475.2	3,501.7	3,484.9	10.0	9.2	-156.11	123.5	223.7	98.1	81.8	16.38	5.993				
3,600.0	3,574.0	3,601.7	3,584.0	10.3	9.5	-155.80	129.4	235.0	100.9	84.0	16.91	5.966				
3,700.0	3,672.9	3,701.6	3,683.2	10.7	9.8	-155.51	135.2	246.4	103.7	86.2	17.45	5.941				
3,800.0	3,771.8	3,801.6	3,782.3	11.0	10.1	-155.24	141.0	257.7	106.4	88.4	17.99	5.917				
3,900.0	3,870.7	3,901.5	3,881.5	11.4	10.4	-154.98	146.9	269.1	109.2	90.7	18.52	5.894				
4,000.0	3,969.5	4,001.5	3,980.6	11.7	10.7	-154.74	152.7	280.4	111.9	92.9	19.07	5.872				
4,100.0	4,068.4	4,101.5	4,079.7	12.1	11.1	-154.50	158.5	291.7	114.7	95.1	19.61	5.851				
4,200.0	4,167.3	4,201.4	4,178.9	12.5	11.4	-154.28	164.3	303.1	117.5	97.3	20.15	5.830				
4,300.0	4,266.2	4,301.4	4,278.0	12.8	11.7	-154.07	170.2	314.4	120.3	99.6	20.69	5.811				
4,400.0	4,365.0	4,400.0	4,375.9	13.2	12.0	-153.94	175.8	325.4	123.3	102.1	21.22	5.810				
4,500.0	4,463.9	4,496.1	4,471.6	13.5	12.2	-154.50	180.0	333.6	128.7	107.0	21.64	5.947				
4,600.0	4,562.8	4,592.0	4,567.2	13.9	12.4	-155.72	182.8	339.0	136.9	114.9	22.00	6.225				
4,700.0	4,661.9	4,687.4	4,662.5	14.2	12.6	-157.29	184.1	341.5	146.8	124.5	22.31	6.582				
4,800.0	4,761.4	4,785.2	4,760.4	14.4	12.7	-158.72	184.2	341.7	155.9	133.4	22.58	6.905				
4,900.0	4,861.1	4,885.0	4,860.1	14.6	12.9	-159.61	184.2	341.7	162.1	139.2	22.89	7.083				
5,000.0	4,961.1	4,984.9	4,960.1	14.8	13.1	-160.00	184.2	341.7	165.0	141.8	23.20	7.113				
5,100.0	5,061.1	5,084.9	5,060.1	14.9	13.3	-90.00	184.2	341.7	165.3	141.7	23.56	7.015				

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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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	5,161.1	5,184.9	5,160.1	15.1	13.4	-90.00	184.2	341.7	165.3	141.3	23.95	6.899			
5,300.0	5,261.1	5,284.9	5,260.1	15.2	13.6	-90.00	184.2	341.7	165.3	140.9	24.35	6.786			
5,400.0	5,361.1	5,384.9	5,360.1	15.4	13.8	-90.00	184.2	341.7	165.3	140.5	24.75	6.676			
5,500.0	5,461.1	5,484.9	5,460.1	15.6	14.0	-90.00	184.2	341.7	165.3	140.1	25.16	6.569			
5,600.0	5,561.1	5,584.9	5,560.1	15.7	14.2	-90.00	184.2	341.7	165.3	139.7	25.56	6.466			
5,700.0	5,661.1	5,684.9	5,660.1	15.9	14.4	-90.00	184.2	341.7	165.3	139.3	25.96	6.365			
5,800.0	5,761.1	5,784.9	5,760.1	16.1	14.6	-90.00	184.2	341.7	165.3	138.9	26.37	6.266			
5,900.0	5,861.1	5,884.9	5,860.1	16.2	14.8	-90.00	184.2	341.7	165.3	138.5	26.78	6.171			
6,000.0	5,961.1	5,984.9	5,960.1	16.4	14.9	-90.00	184.2	341.7	165.3	138.1	27.19	6.078			
6,100.0	6,061.1	6,084.9	6,060.1	16.6	15.1	-90.00	184.2	341.7	165.3	137.7	27.60	5.987			
6,200.0	6,161.1	6,184.9	6,160.1	16.8	15.3	-90.00	184.2	341.7	165.3	137.2	28.01	5.899			
6,300.0	6,261.1	6,284.9	6,260.1	16.9	15.5	-90.00	184.2	341.7	165.3	136.8	28.42	5.814			
6,400.0	6,361.1	6,384.9	6,360.1	17.1	15.7	-90.00	184.2	341.7	165.3	136.4	28.84	5.730			
6,500.0	6,461.1	6,484.9	6,460.1	17.3	15.9	-90.00	184.2	341.7	165.3	136.0	29.25	5.649			
6,600.0	6,561.1	6,584.9	6,560.1	17.5	16.1	-90.00	184.2	341.7	165.3	135.6	29.67	5.570			
6,700.0	6,661.1	6,684.9	6,660.1	17.6	16.3	-90.00	184.2	341.7	165.3	135.2	30.09	5.492			
6,764.1	6,725.2	6,749.0	6,724.2	17.8	16.4	-90.00	184.2	341.7	165.3	134.9	30.36	5.444			
6,800.0	6,761.1	6,784.9	6,760.1	17.8	16.5	-90.07	184.0	341.7	165.3	134.8	30.50	5.419			
6,815.2	6,776.3	6,800.1	6,775.2	17.9	16.5	-90.29	183.4	341.7	165.3	134.7	30.55	5.410			
6,900.0	6,861.1	6,883.1	6,857.4	18.0	16.6	-94.18	172.1	341.7	165.7	135.1	30.65	5.407			
7,000.0	6,961.1	6,974.0	6,944.0	18.2	16.7	76.61	145.1	341.7	170.6	139.9	30.69	5.557			
7,100.0	7,060.3	7,058.0	7,018.8	18.3	16.8	66.23	107.0	341.7	182.4	151.7	30.78	5.928			
7,200.0	7,155.5	7,138.4	7,083.8	18.4	16.8	57.80	59.8	341.7	198.0	167.3	30.67	6.455			
7,300.0	7,243.3	7,216.0	7,138.9	18.4	16.8	51.31	5.2	341.7	214.7	184.6	30.08	7.137			
7,400.0	7,320.3	7,291.5	7,184.2	18.5	16.9	46.48	-55.2	341.7	230.4	201.6	28.83	7.993			
7,500.0	7,383.8	7,365.5	7,219.6	18.6	17.0	43.03	-120.0	341.7	243.9	216.7	27.24	8.955			
7,600.0	7,431.5	7,438.4	7,245.2	18.7	17.2	40.71	-188.2	341.7	254.3	228.7	25.63	9.923			
7,700.0	7,461.5	7,510.6	7,260.9	19.0	17.6	39.36	-258.6	341.7	260.9	236.4	24.43	10.678			
7,800.0	7,472.8	7,582.4	7,266.8	19.5	18.0	38.87	-330.1	341.7	263.3	239.3	24.06	10.947			
7,900.0	7,472.6	7,678.8	7,266.4	20.2	18.7	38.85	-426.6	341.7	263.4	238.5	24.99	10.540			
8,000.0	7,472.2	7,778.8	7,265.9	21.0	19.7	38.83	-526.6	341.7	263.6	237.3	26.24	10.046			
8,100.0	7,471.9	7,878.8	7,265.4	22.0	20.8	38.81	-626.6	341.7	263.7	236.0	27.68	9.527			
8,200.0	7,471.5	7,978.8	7,264.9	23.1	22.0	38.79	-726.6	341.7	263.8	234.5	29.29	9.007			
8,300.0	7,471.2	8,078.8	7,264.4	24.3	23.3	38.77	-826.6	341.7	263.9	232.8	31.04	8.502			
8,400.0	7,470.8	8,178.8	7,263.9	25.7	24.6	38.75	-926.6	341.7	264.0	231.1	32.91	8.022			
8,500.0	7,470.5	8,278.8	7,263.5	27.0	26.1	38.73	-1,026.6	341.7	264.1	229.2	34.88	7.572			
8,600.0	7,470.1	8,378.8	7,263.0	28.5	27.6	38.72	-1,126.6	341.7	264.2	227.3	36.93	7.154			
8,700.0	7,469.8	8,478.8	7,262.5	30.0	29.1	38.70	-1,226.6	341.7	264.3	225.3	39.06	6.767			
8,800.0	7,469.4	8,578.8	7,262.0	31.5	30.7	38.68	-1,326.6	341.7	264.4	223.2	41.24	6.412			
8,900.0	7,469.1	8,678.8	7,261.5	33.1	32.3	38.66	-1,426.6	341.7	264.5	221.1	43.48	6.085			
9,000.0	7,468.7	8,778.8	7,261.0	34.7	34.0	38.64	-1,526.6	341.7	264.6	218.9	45.75	5.785			
9,100.0	7,468.4	8,878.8	7,260.5	36.4	35.7	38.62	-1,626.6	341.7	264.8	216.7	48.06	5.509			
9,200.0	7,468.0	8,978.8	7,260.0	38.1	37.4	38.60	-1,726.6	341.7	264.9	214.5	50.40	5.255			
9,300.0	7,467.7	9,078.8	7,259.5	39.8	39.1	38.58	-1,826.6	341.7	265.0	212.2	52.77	5.021			
9,400.0	7,467.3	9,178.8	7,259.1	41.5	40.8	38.57	-1,926.6	341.7	265.1	209.9	55.16	4.805			
9,500.0	7,467.0	9,278.8	7,258.6	43.2	42.6	38.55	-2,026.6	341.7	265.2	207.6	57.58	4.606			
9,600.0	7,466.6	9,378.8	7,258.1	44.9	44.4	38.53	-2,126.6	341.7	265.3	205.3	60.00	4.421			
9,700.0	7,466.3	9,478.8	7,257.6	46.7	46.1	38.51	-2,226.6	341.7	265.4	203.0	62.45	4.250			
9,800.0	7,465.9	9,578.8	7,257.1	48.5	47.9	38.49	-2,326.6	341.7	265.5	200.6	64.90	4.091			
9,900.0	7,465.6	9,678.8	7,256.6	50.3	49.7	38.47	-2,426.6	341.7	265.6	198.3	67.37	3.943			
10,000.0	7,465.2	9,778.8	7,256.1	52.0	51.5	38.45	-2,526.6	341.7	265.7	195.9	69.85	3.804			
10,100.0	7,464.9	9,878.8	7,255.6	53.8	53.4	38.43	-2,626.6	341.7	265.8	193.5	72.34	3.675			

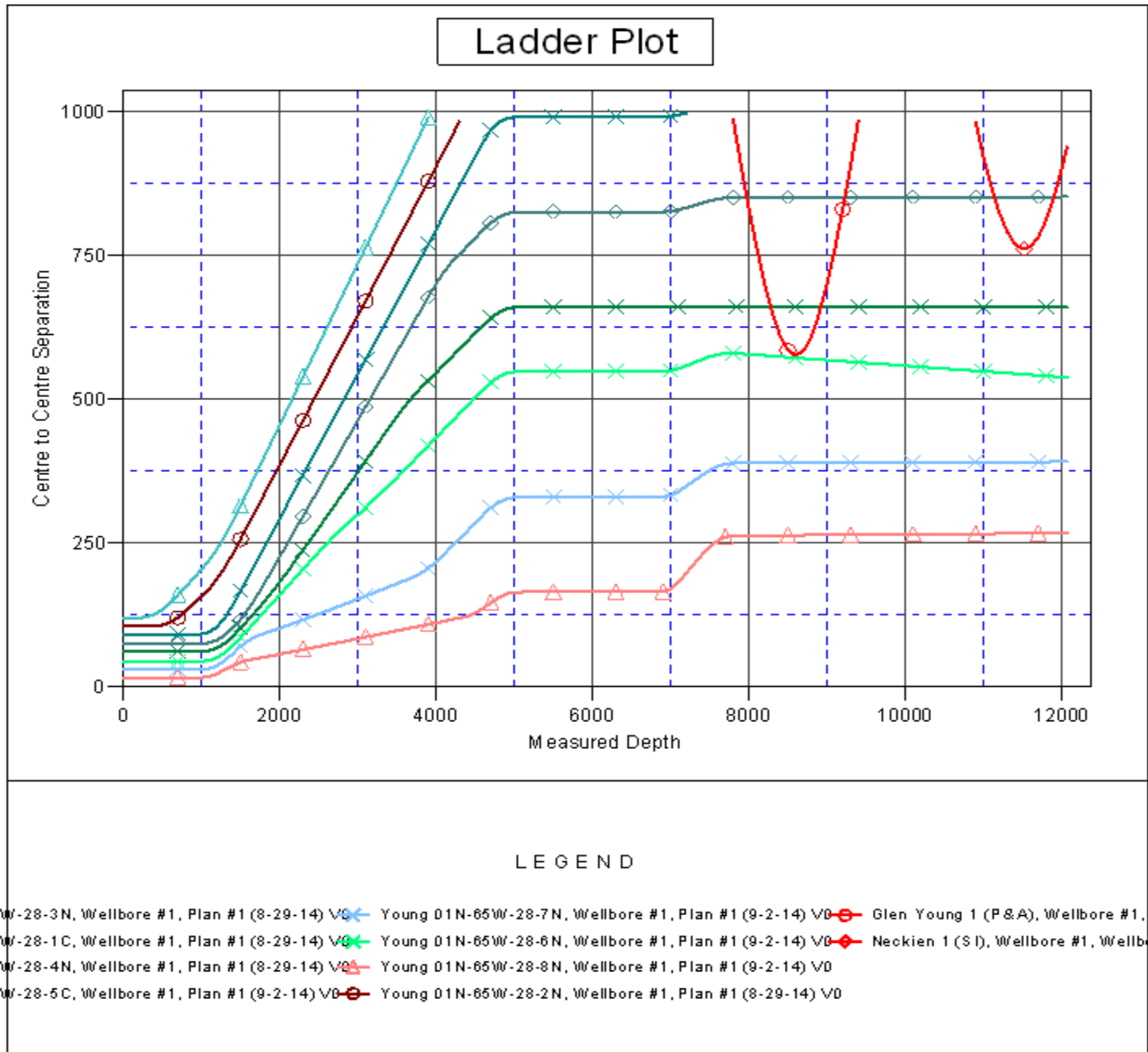
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Offset Design													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			
10,200.0	7,464.5	9,978.8	7,255.1	55.6	55.2	38.41	-2,726.5	341.7	266.0	191.1	74.83	3.554			
10,300.0	7,464.2	10,078.8	7,254.7	57.5	57.0	38.40	-2,826.5	341.7	266.1	188.7	77.34	3.440			
10,400.0	7,463.8	10,178.8	7,254.2	59.3	58.9	38.38	-2,926.5	341.7	266.2	186.3	79.84	3.334			
10,500.0	7,463.5	10,278.8	7,253.7	61.1	60.7	38.36	-3,026.5	341.7	266.3	183.9	82.36	3.233			
10,600.0	7,463.1	10,378.8	7,253.2	62.9	62.5	38.34	-3,126.5	341.7	266.4	181.5	84.88	3.139			
10,700.0	7,462.8	10,478.8	7,252.7	64.8	64.4	38.32	-3,226.5	341.7	266.5	179.1	87.40	3.049			
10,800.0	7,462.4	10,578.8	7,252.2	66.6	66.2	38.30	-3,326.5	341.7	266.6	176.7	89.93	2.965			
10,900.0	7,462.1	10,678.8	7,251.7	68.5	68.1	38.28	-3,426.5	341.7	266.7	174.3	92.46	2.885			
11,000.0	7,461.7	10,778.8	7,251.2	70.3	69.9	38.27	-3,526.5	341.7	266.8	171.8	94.99	2.809			
11,100.0	7,461.4	10,878.8	7,250.7	72.2	71.8	38.25	-3,626.5	341.7	266.9	169.4	97.52	2.737			
11,200.0	7,461.0	10,978.8	7,250.3	74.0	73.7	38.23	-3,726.5	341.7	267.1	167.0	100.06	2.669			
11,300.0	7,460.7	11,078.8	7,249.8	75.9	75.5	38.21	-3,826.5	341.7	267.2	164.6	102.60	2.604			
11,400.0	7,460.3	11,178.8	7,249.3	77.7	77.4	38.19	-3,926.5	341.7	267.3	162.1	105.14	2.542			
11,500.0	7,460.0	11,278.8	7,248.8	79.6	79.3	38.17	-4,026.5	341.7	267.4	159.7	107.69	2.483			
11,600.0	7,459.6	11,378.8	7,248.3	81.5	81.2	38.15	-4,126.5	341.7	267.5	157.3	110.23	2.427			
11,700.0	7,459.3	11,478.8	7,247.8	83.3	83.0	38.14	-4,226.5	341.7	267.6	154.8	112.78	2.373			
11,800.0	7,458.9	11,578.8	7,247.3	85.2	84.9	38.12	-4,326.5	341.7	267.7	152.4	115.32	2.321			
11,900.0	7,458.6	11,678.8	7,246.8	87.1	86.8	38.10	-4,426.5	341.7	267.8	150.0	117.87	2.272			
12,000.0	7,458.2	11,778.8	7,246.3	89.0	88.7	38.08	-4,526.5	341.7	267.9	147.5	120.42	2.225			
12,069.8	7,458.0	11,848.6	7,246.0	90.3	89.8	38.07	-4,596.3	341.7	268.0	146.0	122.04	2.196 SF			

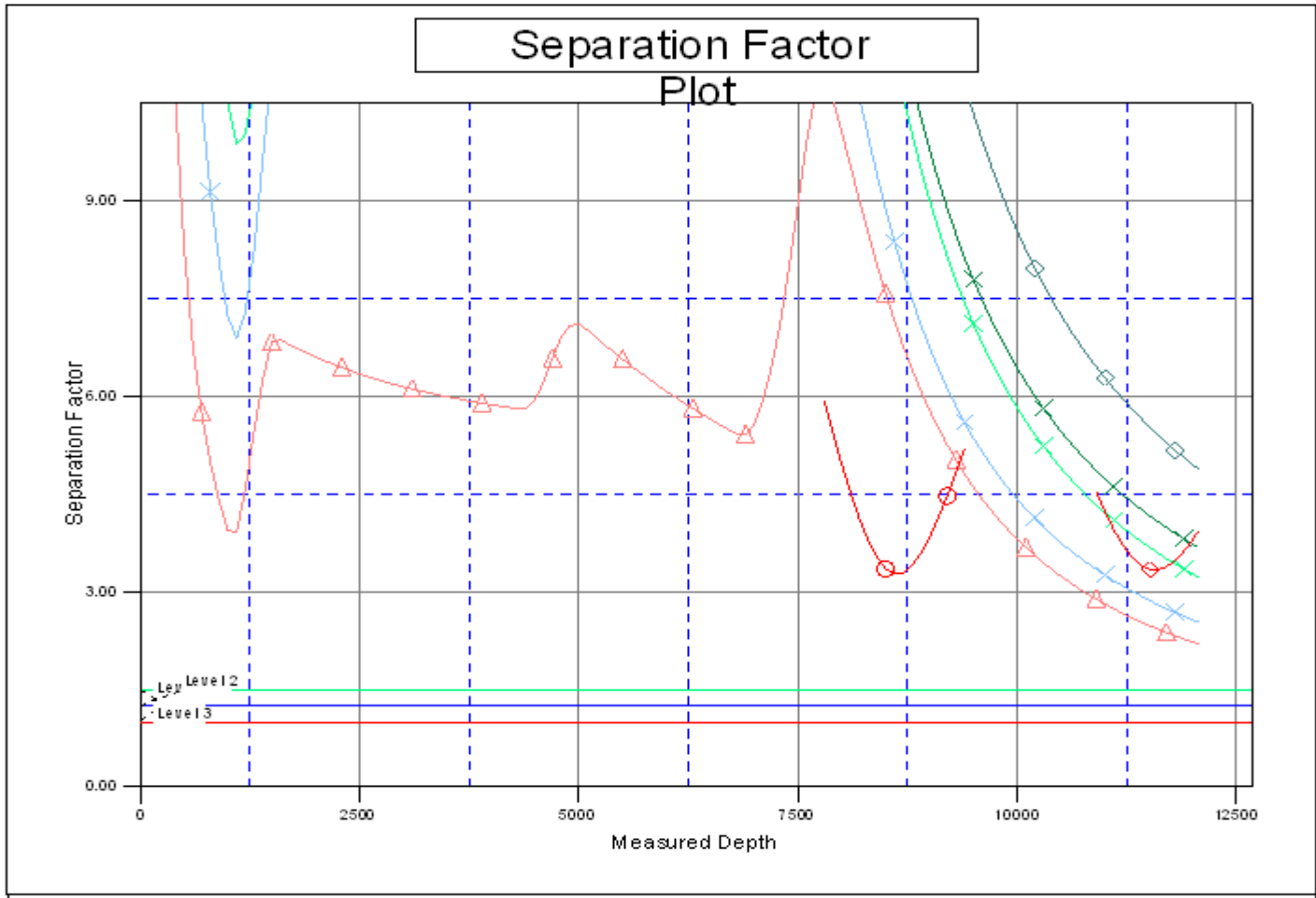
Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Young 01N-65W-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5087.0ft (Original Well Elev) Coordinates are relative to: Young 01N-65W-28-9C
 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-28-9C
Project:	SEC.28-T1N-R65W	TVD Reference:	WELL @ 5087.0ft (Original Well Elev)
Reference Site:	Young 01N-65W-28 Pad Sec.28-T1N-R65W	MD Reference:	WELL @ 5087.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Young 01N-65W-28-9C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (9-2-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5087.0ft (Original Well Elev) Coordinates are relative to: Young 01N-65W-28-9C
 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-28-3N, Wellbore #1, Plan #1 (8-29-14) VO ← Young 01N-65W-28-7N, Wellbore #1, Plan #1 (9-2-14) VO ○ Glen Young 1 (P&A), Wellbore #1, Wellbore #1, Plan #1 (8-29-14) VO
- 5W-28-1C, Wellbore #1, Plan #1 (8-29-14) VO ← Young 01N-65W-28-6N, Wellbore #1, Plan #1 (9-2-14) VO ◇ Neckien 1 (S), Wellbore #1, Wellbore #1, Plan #1 (8-29-14) VO
- 5W-28-4N, Wellbore #1, Plan #1 (8-29-14) VO △ Young 01N-65W-28-8N, Wellbore #1, Plan #1 (9-2-14) VO
- 5W-28-5C, Wellbore #1, Plan #1 (9-2-14) VO ○ Young 01N-65W-28-2N, Wellbore #1, Plan #1 (8-29-14) VO