

Verdad Oil & Gas Corporation

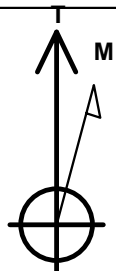
Well Name: **Rowe 01N-65W-26-8N**

Surface Location: Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 5101.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1254608.21	3242930.13	40.029025	-104.632485	
Frontier 6 RKB - 16.5' WELL @ 5117.5ft (Frontier 6 RKB - 16.5')						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
460' Setback BHL	1.0	-4617.0	-1150.0	Polygon
460' Setback SHL	1.0	-252.0	-1150.0	Polygon
Sectionline	1.0	208.0	-1150.0	Polygon
SHL 208'FNL & 2317'FWL	1.0	0.0	0.0	Point
BHL 460'FSL & 1815'FWL	7167.5	-4617.0	-508.4	Point



Azimuths to True North
Magnetic North: 8.28°

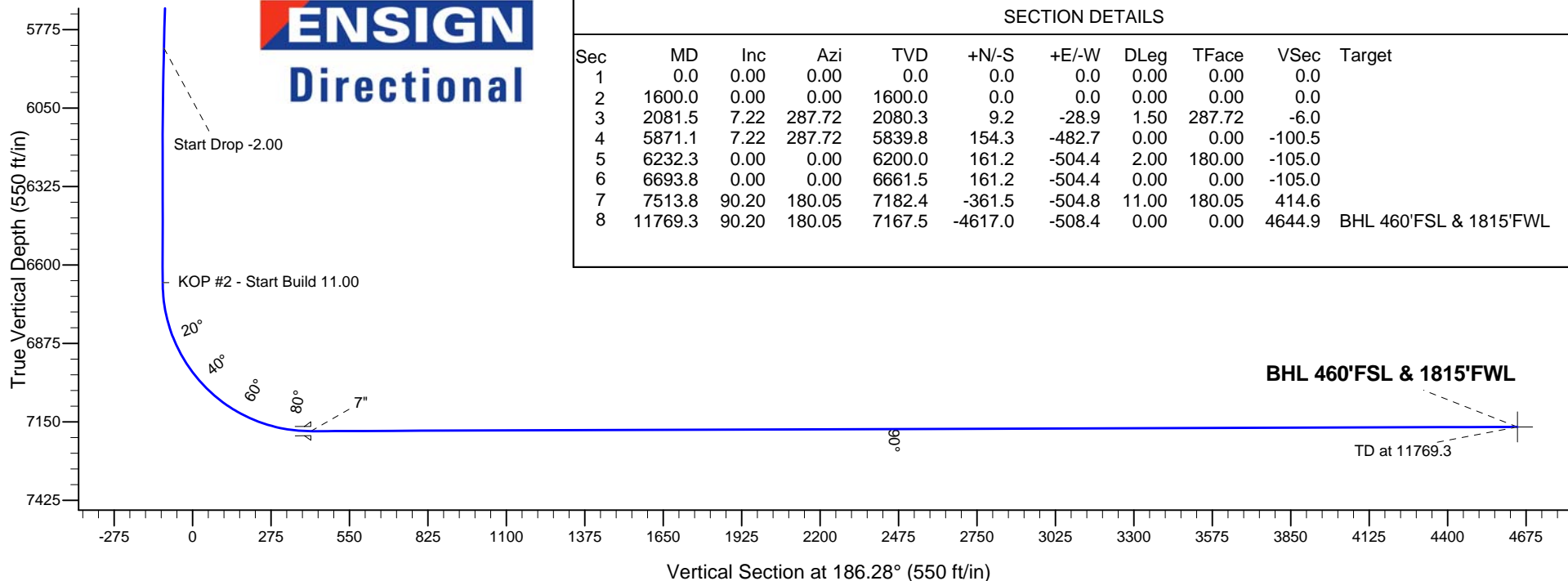
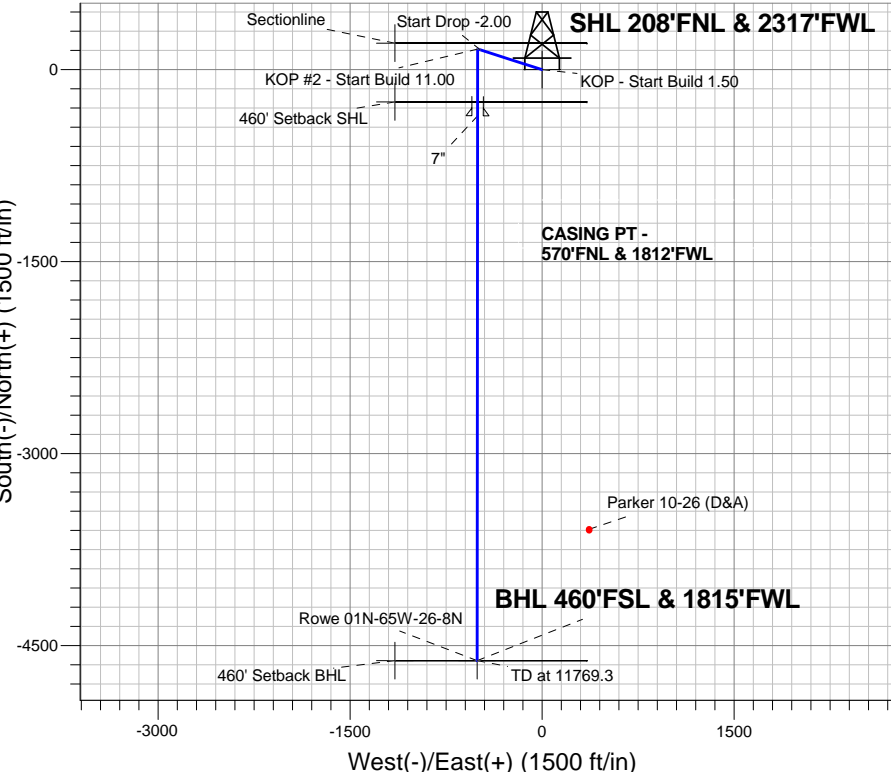
Magnetic Field
Strength: 52574.6snT
Dip Angle: 66.65°
Date: 12/31/2014
Model: IGRF2010

Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W
Rowe 01N-65W-26-8N
Plan #1 (1-14-15)

ANNOTATIONS

TVD	MD	Annotation
1600.0	1600.0	KOP - Start Build 1.50
5839.8	5871.1	Start Drop -2.00
6661.5	6693.8	KOP #2 - Start Build 11.00
7167.5	11769.3	TD at 11769.3

South(-)/North(+) (1500 ft/in)





Verdad Oil & Gas Corporation

SEC.26-T1N-R65W

Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W

Rowe 01N-65W-26-8N

Wellbore #1

Plan: Plan #1 (1-14-15)

Standard Planning Report

14 January, 2015

Database:	landmark	Local Co-ordinate Reference:	Well Rowe 01N-65W-26-8N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Project:	SEC.26-T1N-R65W	MD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Site:	Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W	North Reference:	True
Well:	Rowe 01N-65W-26-8N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-14-15)		

Project	SEC.26-T1N-R65W		
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						Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W											
Site Position:						Northing:			1,254,608.21 ft			Latitude:			40.029025		
From:			Lat/Long			Easting:			3,242,930.13 ft			Longitude:			-104.632485		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.56 °		

Well	Rowe 01N-65W-26-8N					
Well Position	+N/-S	0.0 ft	Northing:	1,254,608.21 ft	Latitude:	40.029025
	+E/-W	0.0 ft	Easting:	3,242,930.13 ft	Longitude:	-104.632485
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,101.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	8.28	66.65	52,575

Design	Plan #1 (1-14-15)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	186.28

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	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,081.5	7.22	287.72	2,080.3	9.2	-28.9	1.50	1.50	0.00	287.72	
5,871.1	7.22	287.72	5,839.8	154.3	-482.7	0.00	0.00	0.00	0.00	
6,232.3	0.00	0.00	6,200.0	161.2	-504.4	2.00	-2.00	0.00	180.00	
6,693.8	0.00	0.00	6,661.5	161.2	-504.4	0.00	0.00	0.00	0.00	
7,513.8	90.20	180.05	7,182.4	-361.5	-504.8	11.00	11.00	0.00	180.05	
11,769.3	90.20	180.05	7,167.5	-4,617.0	-508.4	0.00	0.00	0.00	0.00	BHL 460'FSL & 181

Database:	landmark	Local Co-ordinate Reference:	Well Rowe 01N-65W-26-8N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Project:	SEC.26-T1N-R65W	MD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Site:	Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W	North Reference:	True
Well:	Rowe 01N-65W-26-8N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-14-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.50									
1,700.0	1.50	287.72	1,700.0	0.4	-1.2	-0.3	1.50	1.50	0.00
1,800.0	3.00	287.72	1,799.9	1.6	-5.0	-1.0	1.50	1.50	0.00
1,900.0	4.50	287.72	1,899.7	3.6	-11.2	-2.3	1.50	1.50	0.00
2,000.0	6.00	287.72	1,999.3	6.4	-19.9	-4.2	1.50	1.50	0.00
2,081.5	7.22	287.72	2,080.3	9.2	-28.9	-6.0	1.50	1.50	0.00
2,100.0	7.22	287.72	2,098.6	9.9	-31.1	-6.5	0.00	0.00	0.00
2,200.0	7.22	287.72	2,197.8	13.8	-43.1	-9.0	0.00	0.00	0.00
2,300.0	7.22	287.72	2,297.0	17.6	-55.0	-11.5	0.00	0.00	0.00
2,400.0	7.22	287.72	2,396.2	21.4	-67.0	-14.0	0.00	0.00	0.00
2,500.0	7.22	287.72	2,495.4	25.2	-79.0	-16.4	0.00	0.00	0.00
2,600.0	7.22	287.72	2,594.6	29.1	-91.0	-18.9	0.00	0.00	0.00
2,700.0	7.22	287.72	2,693.8	32.9	-102.9	-21.4	0.00	0.00	0.00
2,800.0	7.22	287.72	2,793.0	36.7	-114.9	-23.9	0.00	0.00	0.00
2,900.0	7.22	287.72	2,892.2	40.6	-126.9	-26.4	0.00	0.00	0.00
3,000.0	7.22	287.72	2,991.4	44.4	-138.9	-28.9	0.00	0.00	0.00
3,100.0	7.22	287.72	3,090.6	48.2	-150.9	-31.4	0.00	0.00	0.00
3,200.0	7.22	287.72	3,189.8	52.0	-162.8	-33.9	0.00	0.00	0.00
3,300.0	7.22	287.72	3,289.1	55.9	-174.8	-36.4	0.00	0.00	0.00
3,400.0	7.22	287.72	3,388.3	59.7	-186.8	-38.9	0.00	0.00	0.00
3,500.0	7.22	287.72	3,487.5	63.5	-198.8	-41.4	0.00	0.00	0.00
3,600.0	7.22	287.72	3,586.7	67.3	-210.7	-43.9	0.00	0.00	0.00
3,700.0	7.22	287.72	3,685.9	71.2	-222.7	-46.4	0.00	0.00	0.00
3,800.0	7.22	287.72	3,785.1	75.0	-234.7	-48.9	0.00	0.00	0.00
3,900.0	7.22	287.72	3,884.3	78.8	-246.7	-51.4	0.00	0.00	0.00
4,000.0	7.22	287.72	3,983.5	82.7	-258.6	-53.9	0.00	0.00	0.00
4,100.0	7.22	287.72	4,082.7	86.5	-270.6	-56.3	0.00	0.00	0.00
4,200.0	7.22	287.72	4,181.9	90.3	-282.6	-58.8	0.00	0.00	0.00
4,300.0	7.22	287.72	4,281.1	94.1	-294.6	-61.3	0.00	0.00	0.00
4,400.0	7.22	287.72	4,380.3	98.0	-306.5	-63.8	0.00	0.00	0.00
4,500.0	7.22	287.72	4,479.5	101.8	-318.5	-66.3	0.00	0.00	0.00
4,600.0	7.22	287.72	4,578.7	105.6	-330.5	-68.8	0.00	0.00	0.00
4,700.0	7.22	287.72	4,677.9	109.5	-342.5	-71.3	0.00	0.00	0.00
4,800.0	7.22	287.72	4,777.2	113.3	-354.5	-73.8	0.00	0.00	0.00
4,900.0	7.22	287.72	4,876.4	117.1	-366.4	-76.3	0.00	0.00	0.00
5,000.0	7.22	287.72	4,975.6	120.9	-378.4	-78.8	0.00	0.00	0.00

Database:	landmark	Local Co-ordinate Reference:	Well Rowe 01N-65W-26-8N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Project:	SEC.26-T1N-R65W	MD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Site:	Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W	North Reference:	True
Well:	Rowe 01N-65W-26-8N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-14-15)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.0	7.22	287.72	5,074.8	124.8	-390.4	-81.3	0.00	0.00	0.00
5,200.0	7.22	287.72	5,174.0	128.6	-402.4	-83.8	0.00	0.00	0.00
5,300.0	7.22	287.72	5,273.2	132.4	-414.3	-86.3	0.00	0.00	0.00
5,400.0	7.22	287.72	5,372.4	136.2	-426.3	-88.8	0.00	0.00	0.00
5,500.0	7.22	287.72	5,471.6	140.1	-438.3	-91.3	0.00	0.00	0.00
5,600.0	7.22	287.72	5,570.8	143.9	-450.3	-93.8	0.00	0.00	0.00
5,700.0	7.22	287.72	5,670.0	147.7	-462.2	-96.2	0.00	0.00	0.00
5,800.0	7.22	287.72	5,769.2	151.6	-474.2	-98.7	0.00	0.00	0.00
5,871.1	7.22	287.72	5,839.8	154.3	-482.7	-100.5	0.00	0.00	0.00
Start Drop -2.00									
5,900.0	6.65	287.72	5,868.4	155.3	-486.1	-101.2	2.00	-2.00	0.00
6,000.0	4.65	287.72	5,967.9	158.3	-495.4	-103.2	2.00	-2.00	0.00
6,100.0	2.65	287.72	6,067.7	160.3	-501.5	-104.4	2.00	-2.00	0.00
6,200.0	0.65	287.72	6,167.7	161.1	-504.2	-105.0	2.00	-2.00	0.00
6,232.3	0.00	0.00	6,200.0	161.2	-504.4	-105.0	2.00	-2.00	0.00
6,300.0	0.00	0.00	6,267.7	161.2	-504.4	-105.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,367.7	161.2	-504.4	-105.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,467.7	161.2	-504.4	-105.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,567.7	161.2	-504.4	-105.0	0.00	0.00	0.00
6,693.8	0.00	0.00	6,661.5	161.2	-504.4	-105.0	0.00	0.00	0.00
KOP #2 - Start Build 11.00									
6,700.0	0.68	180.05	6,667.7	161.2	-504.4	-105.0	11.02	11.02	0.00
6,800.0	11.68	180.05	6,767.0	150.4	-504.4	-94.3	11.00	11.00	0.00
6,900.0	22.68	180.05	6,862.4	120.9	-504.4	-65.0	11.00	11.00	0.00
7,000.0	33.68	180.05	6,950.4	73.8	-504.5	-18.1	11.00	11.00	0.00
7,100.0	44.68	180.05	7,027.8	10.7	-504.5	44.6	11.00	11.00	0.00
7,200.0	55.68	180.05	7,091.7	-66.0	-504.6	120.8	11.00	11.00	0.00
7,300.0	66.68	180.05	7,139.8	-153.5	-504.7	207.8	11.00	11.00	0.00
7,400.0	77.68	180.05	7,170.4	-248.6	-504.7	302.3	11.00	11.00	0.00
7,500.0	88.68	180.05	7,182.2	-347.7	-504.8	400.9	11.00	11.00	0.00
7,513.8	90.20	180.05	7,182.4	-361.5	-504.8	414.6	10.99	10.99	0.00
7"									
7,600.0	90.20	180.05	7,182.1	-447.7	-504.9	500.3	0.00	0.00	0.00
7,700.0	90.20	180.05	7,181.7	-547.7	-505.0	599.7	0.00	0.00	0.00
7,800.0	90.20	180.05	7,181.4	-647.7	-505.1	699.1	0.00	0.00	0.00
7,900.0	90.20	180.05	7,181.0	-747.7	-505.2	798.5	0.00	0.00	0.00
8,000.0	90.20	180.05	7,180.7	-847.7	-505.2	897.9	0.00	0.00	0.00
8,100.0	90.20	180.05	7,180.3	-947.7	-505.3	997.3	0.00	0.00	0.00
8,200.0	90.20	180.05	7,180.0	-1,047.7	-505.4	1,096.7	0.00	0.00	0.00
8,300.0	90.20	180.05	7,179.6	-1,147.7	-505.5	1,196.1	0.00	0.00	0.00
8,400.0	90.20	180.05	7,179.3	-1,247.7	-505.6	1,295.5	0.00	0.00	0.00
8,500.0	90.20	180.05	7,178.9	-1,347.7	-505.7	1,394.9	0.00	0.00	0.00
8,600.0	90.20	180.05	7,178.6	-1,447.7	-505.7	1,494.3	0.00	0.00	0.00
8,700.0	90.20	180.05	7,178.2	-1,547.7	-505.8	1,593.8	0.00	0.00	0.00
8,800.0	90.20	180.05	7,177.9	-1,647.7	-505.9	1,693.2	0.00	0.00	0.00
8,900.0	90.20	180.05	7,177.5	-1,747.7	-506.0	1,792.6	0.00	0.00	0.00
9,000.0	90.20	180.05	7,177.2	-1,847.7	-506.1	1,892.0	0.00	0.00	0.00
9,100.0	90.20	180.05	7,176.8	-1,947.7	-506.2	1,991.4	0.00	0.00	0.00
9,200.0	90.20	180.05	7,176.5	-2,047.7	-506.2	2,090.8	0.00	0.00	0.00
9,300.0	90.20	180.05	7,176.1	-2,147.7	-506.3	2,190.2	0.00	0.00	0.00
9,400.0	90.20	180.05	7,175.8	-2,247.7	-506.4	2,289.6	0.00	0.00	0.00
9,500.0	90.20	180.05	7,175.4	-2,347.7	-506.5	2,389.0	0.00	0.00	0.00
9,600.0	90.20	180.05	7,175.1	-2,447.7	-506.6	2,488.4	0.00	0.00	0.00

Database:	landmark	Local Co-ordinate Reference:	Well Rowe 01N-65W-26-8N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Project:	SEC.26-T1N-R65W	MD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Site:	Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W	North Reference:	True
Well:	Rowe 01N-65W-26-8N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-14-15)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,700.0	90.20	180.05	7,174.7	-2,547.7	-506.7	2,587.8	0.00	0.00	0.00
9,800.0	90.20	180.05	7,174.4	-2,647.7	-506.7	2,687.2	0.00	0.00	0.00
9,900.0	90.20	180.05	7,174.0	-2,747.7	-506.8	2,786.6	0.00	0.00	0.00
10,000.0	90.20	180.05	7,173.7	-2,847.7	-506.9	2,886.1	0.00	0.00	0.00
10,100.0	90.20	180.05	7,173.3	-2,947.7	-507.0	2,985.5	0.00	0.00	0.00
10,200.0	90.20	180.05	7,173.0	-3,047.7	-507.1	3,084.9	0.00	0.00	0.00
10,300.0	90.20	180.05	7,172.6	-3,147.7	-507.2	3,184.3	0.00	0.00	0.00
10,400.0	90.20	180.05	7,172.3	-3,247.7	-507.2	3,283.7	0.00	0.00	0.00
10,500.0	90.20	180.05	7,171.9	-3,347.7	-507.3	3,383.1	0.00	0.00	0.00
10,600.0	90.20	180.05	7,171.6	-3,447.7	-507.4	3,482.5	0.00	0.00	0.00
10,700.0	90.20	180.05	7,171.2	-3,547.7	-507.5	3,581.9	0.00	0.00	0.00
10,800.0	90.20	180.05	7,170.9	-3,647.7	-507.6	3,681.3	0.00	0.00	0.00
10,900.0	90.20	180.05	7,170.5	-3,747.7	-507.7	3,780.7	0.00	0.00	0.00
11,000.0	90.20	180.05	7,170.2	-3,847.7	-507.7	3,880.1	0.00	0.00	0.00
11,100.0	90.20	180.05	7,169.8	-3,947.7	-507.8	3,979.5	0.00	0.00	0.00
11,200.0	90.20	180.05	7,169.5	-4,047.7	-507.9	4,078.9	0.00	0.00	0.00
11,300.0	90.20	180.05	7,169.1	-4,147.7	-508.0	4,178.4	0.00	0.00	0.00
11,400.0	90.20	180.05	7,168.8	-4,247.7	-508.1	4,277.8	0.00	0.00	0.00
11,500.0	90.20	180.05	7,168.4	-4,347.7	-508.2	4,377.2	0.00	0.00	0.00
11,600.0	90.20	180.05	7,168.1	-4,447.7	-508.2	4,476.6	0.00	0.00	0.00
11,700.0	90.20	180.05	7,167.7	-4,547.7	-508.3	4,576.0	0.00	0.00	0.00
11,769.3	90.20	180.05	7,167.5	-4,617.0	-508.4	4,644.9	0.00	0.00	0.00
TD at 11769.3									

Database:	landmark	Local Co-ordinate Reference:	Well Rowe 01N-65W-26-8N
Company:	Verdad Oil & Gas Corporation	TVD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Project:	SEC.26-T1N-R65W	MD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Site:	Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W	North Reference:	True
Well:	Rowe 01N-65W-26-8N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (1-14-15)		

Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
- Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude Longitude
Sectionline		0.00	0.00	1.0	208.0	-1,150.0	1,254,804.94	3,241,778.19	40.029596 -104.636592
- plan misses by 1168.7ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1				1.0	0.0	0.0	1,254,804.94	3,241,778.19	
Point 2				1.0	0.0	1,500.0	1,254,819.61	3,243,278.07	
Parker 10-26 (D&A)		0.00	0.00	59.5	-3,590.1	367.2	1,251,022.05	3,243,332.41	40.019170 -104.631174
- plan misses by 3608.8ft at 59.5ft MD (59.5 TVD, 0.0 N, 0.0 E)									
- Circle (radius 150.0)									
SHL 208'FNL & 2317'		0.00	0.00	1.0	0.0	0.0	1,254,608.21	3,242,930.13	40.029025 -104.632485
- plan hits target									
- Point									
460' Setback BHL		0.00	0.00	1.0	-4,617.0	-1,150.0	1,249,980.35	3,241,825.39	40.016351 -104.636591
- plan misses by 4758.1ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1				1.0	0.0	0.0	1,249,980.35	3,241,825.39	
Point 2				1.0	0.0	1,500.0	1,249,995.02	3,243,325.27	
460' Setback SHL		0.00	0.00	1.0	-252.0	-1,150.0	1,254,344.98	3,241,782.69	40.028333 -104.636591
- plan misses by 1177.3ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1				1.0	0.0	0.0	1,254,344.98	3,241,782.69	
Point 2				1.0	0.0	1,500.0	1,254,359.65	3,243,282.57	
BHL 460'FSL & 1815'		0.00	0.00	7,167.5	-4,617.0	-508.4	1,249,986.65	3,242,466.96	40.016351 -104.634300
- plan hits target									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,513.8	7,182.4	7"	7	7-1/2	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment	
1,600.0	1,600.0	0.0	0.0	KOP - Start Build 1.50	
5,871.1	5,839.8	9.2	-28.9	Start Drop -2.00	
6,693.8	6,661.5	154.3	-482.7	KOP #2 - Start Build 11.00	
11,769.3	7,167.5	161.2	-504.4	TD at 11769.3	



Verdad Oil & Gas Corporation

SEC.26-T1N-R65W

Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W

Rowe 01N-65W-26-8N

Wellbore #1

Plan #1 (1-14-15)

Anticollision Report

14 January, 2015

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Rowe 01N-65W-26-8N
Project:	SEC.26-T1N-R65W	TVD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Reference Site:	Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W	MD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Rowe 01N-65W-26-8N	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 (1-14-15)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (1-14-15)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCSWA
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		

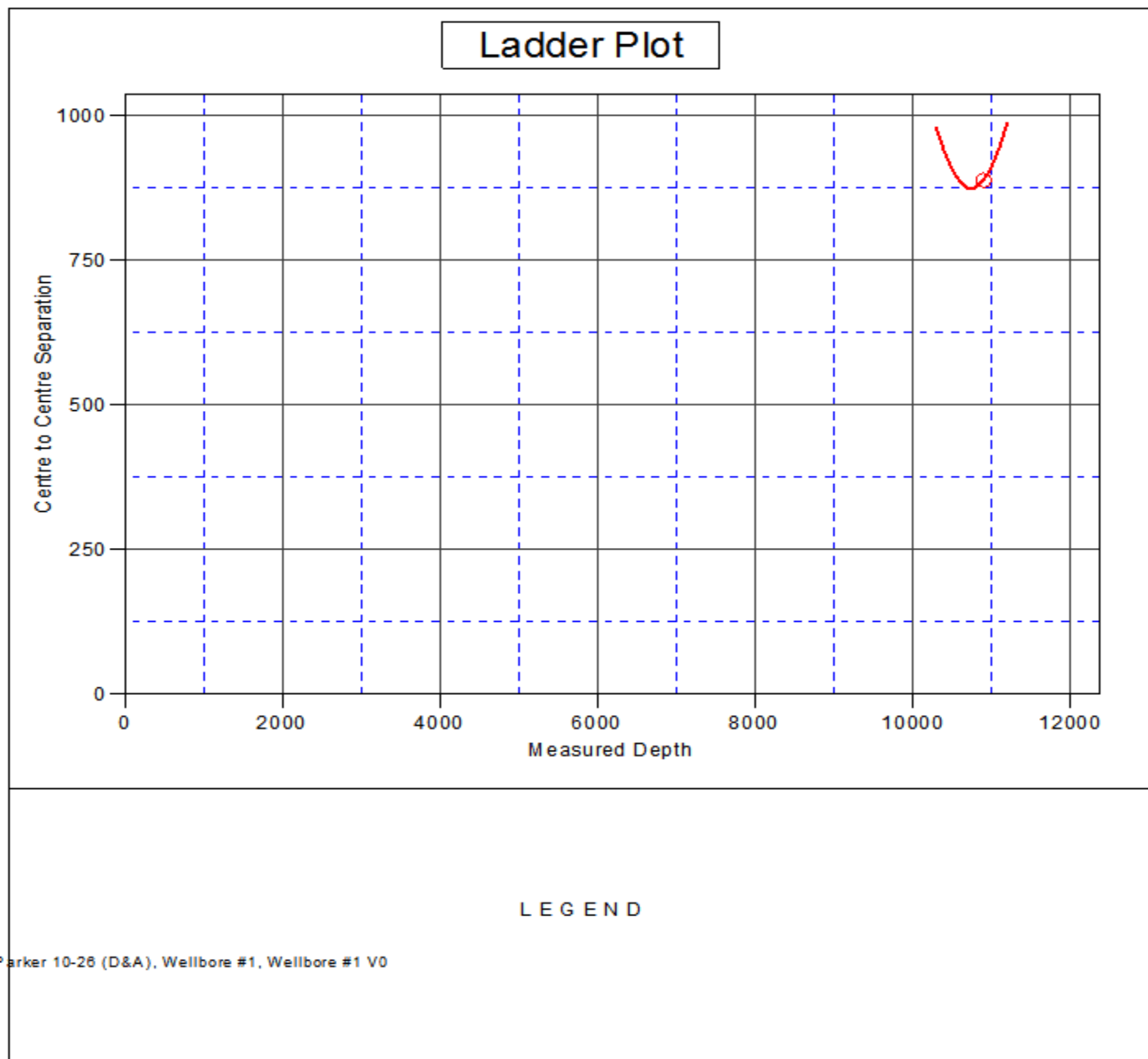
Survey Tool Program		Date	1/14/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,769.3	Plan #1 (1-14-15) (Wellbore #1)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth	Offset Measured Depth	Distance Between Centres	Distance Between Ellipses	Separation Factor	Warning
Offset Well - Wellbore - Design	(ft)	(ft)	(ft)	(ft)		
Existing Wells Sec.26-T1N-R65W						
Parker 10-26 (D&A) - Wellbore #1 - Wellbore #1	10,741.7	7,112.6	874.7	661.6	4.105	CC, ES
Parker 10-26 (D&A) - Wellbore #1 - Wellbore #1	10,800.0	7,112.4	876.7	662.5	4.093	SF

Offset Design Existing Wells Sec.26-T1N-R65W - Parker 10-26 (D&A) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 7879-UNKNOWN													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
10,300.0	7,172.6	7,114.1	7,114.1	63.1	142.3	-90.10	-3,590.1	367.2	979.9	775.0	204.92	4.782		
10,400.0	7,172.3	7,113.8	7,113.8	65.0	142.3	-90.08	-3,590.1	367.2	939.1	732.3	206.77	4.542		
10,500.0	7,171.9	7,113.4	7,113.4	66.8	142.3	-90.06	-3,590.1	367.2	907.5	698.9	208.62	4.350		
10,600.0	7,171.6	7,113.1	7,113.1	68.7	142.3	-90.03	-3,590.1	367.2	886.1	675.6	210.48	4.210		
10,700.0	7,171.2	7,112.7	7,112.7	70.5	142.3	-90.01	-3,590.1	367.2	875.7	663.4	212.33	4.124		
10,741.7	7,171.1	7,112.6	7,112.6	71.3	142.3	-90.00	-3,590.1	367.2	874.7	661.6	213.11	4.105	CC, ES	
10,800.0	7,170.9	7,112.4	7,112.4	72.4	142.2	-89.99	-3,590.1	367.2	876.7	662.5	214.19	4.093	SF	
10,900.0	7,170.5	7,112.0	7,112.0	74.2	142.2	-89.96	-3,590.1	367.2	888.9	672.9	216.05	4.114		
11,000.0	7,170.2	7,111.7	7,111.7	76.1	142.2	-89.94	-3,590.1	367.2	912.1	694.1	217.92	4.185		
11,100.0	7,169.8	7,111.3	7,111.3	78.0	142.2	-89.92	-3,590.1	367.2	945.3	725.5	219.79	4.301		
11,200.0	7,169.5	7,111.0	7,111.0	79.8	142.2	-89.90	-3,590.1	367.2	987.5	765.9	221.65	4.455		

Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Rowe 01N-65W-26-8N
Project:	SEC.26-T1N-R65W	TVD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Reference Site:	Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W	MD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Rowe 01N-65W-26-8N	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 (1-14-15)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5117.5ft (Frontier 6 RKB - 1 Coordinates are relative to: Rowe 01N-65W-26-8N
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.56°



Company:	Verdad Oil & Gas Corporation	Local Co-ordinate Reference:	Well Rowe 01N-65W-26-8N
Project:	SEC.26-T1N-R65W	TVD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Reference Site:	Rowe 01N-65W-26-8N Pad Sec.26-T1N-R65W	MD Reference:	WELL @ 5117.5ft (Frontier 6 RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Rowe 01N-65W-26-8N	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 (1-14-15)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5117.5ft (Frontier 6 RKB - 1 Coordinates are relative to: Rowe 01N-65W-26-8N
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: 0.56°

