

Rubicon Oil & Gas

**Weld County
Pawnee 3-16-1
Pawnee 3-16-1**

Single Lateral

Plan: Plan 1

Standard Planning Report

12 April, 2010

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site Pawnee 3-16-1
Company:	Rubicon Oil & Gas	TVD Reference:	Est. RKB @ 5286.0ft (Ensign 14)
Project:	Weld County	MD Reference:	Est. RKB @ 5286.0ft (Ensign 14)
Site:	Pawnee 3-16-1	North Reference:	True
Well:	Pawnee 3-16-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Single Lateral		
Design:	Plan 1		

Project	Weld County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Pawnee 3-16-1			
Site Position:		Northing:	1,513,705.41 ft	Latitude:	40° 44' 28.723 N
From:	Lat/Long	Easting:	3,198,372.61 ft	Longitude:	104° 47' 2.850 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.46 °

Well	Pawnee 3-16-1					
Well Position	+N/-S	0.0 ft	Northing:	1,513,705.41 ft	Latitude:	40° 44' 28.723 N
	+E/-W	0.0 ft	Easting:	3,198,372.61 ft	Longitude:	104° 47' 2.850 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	0.0 ft

Wellbore	Single Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/12/2010	9.07	67.36	53,428

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	7,620.0	0.0	0.0	341.76

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	
7,142.5	0.00	0.00	7,142.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,892.5	90.00	341.76	7,620.0	453.5	-149.5	12.00	12.00	0.00	341.76	
11,663.6	90.00	341.76	7,620.0	4,035.0	-1,330.0	0.00	0.00	0.00	0.00	PBHL- Pawnee 3-16-

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Wellbore:	Single Lateral		
Design:	Plan 1		

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
7,142.5	0.00	0.00	7,142.5	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	42.90	341.76	7,467.5	121.3	-40.0	127.7	12.00	12.00	0.00
7,891.5	89.88	341.76	7,620.0	452.5	-149.1	476.4	12.00	12.00	0.00
7" Intermediate									
7,892.5	90.00	341.76	7,620.0	453.5	-149.5	477.5	12.00	12.00	0.00
8,000.0	90.00	341.76	7,620.0	555.5	-183.1	584.9	0.00	0.00	0.00
8,500.0	90.00	341.76	7,620.0	1,030.4	-339.6	1,084.9	0.00	0.00	0.00
9,000.0	90.00	341.76	7,620.0	1,505.3	-496.2	1,584.9	0.00	0.00	0.00
9,500.0	90.00	341.76	7,620.0	1,980.1	-652.7	2,084.9	0.00	0.00	0.00
10,000.0	90.00	341.76	7,620.0	2,455.0	-809.2	2,584.9	0.00	0.00	0.00
10,500.0	90.00	341.76	7,620.0	2,929.9	-965.7	3,084.9	0.00	0.00	0.00
11,000.0	90.00	341.76	7,620.0	3,404.7	-1,122.3	3,584.9	0.00	0.00	0.00
11,500.0	90.00	341.76	7,620.0	3,879.6	-1,278.8	4,084.9	0.00	0.00	0.00
11,663.6	90.00	341.76	7,620.0	4,035.0	-1,330.0	4,248.5	0.00	0.00	0.00
PBHL- Pawnee 3-16-1									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,891.5	7,620.0	7" Intermediate	7	8-3/4