

# **Rubicon Oil & Gas**

**Weld County**

**Pawnee 10-67-36-1**

**Pawnee 10-67-36-1**

**Single Lateral**

**Plan: Plan 1**

## **Standard Planning Report**

**22 March, 2010**

## Planning Report

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Site Pawnee 10-67-36-1
<b>Company:</b>	Rubicon Oil & Gas	<b>TVD Reference:</b>	Est. RKB @ 5448.3ft (Ensign 14)
<b>Project:</b>	Weld County	<b>MD Reference:</b>	Est. RKB @ 5448.3ft (Ensign 14)
<b>Site:</b>	Pawnee 10-67-36-1	<b>North Reference:</b>	True
<b>Well:</b>	Pawnee 10-67-36-1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Single Lateral		
<b>Design:</b>	Plan 1		

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

Site		Pawnee 10-67-36-1			
Site Position:		Northing:	1,533,801.45 ft	Latitude:	40° 47' 48.610 N
From:	Lat/Long	Easting:	3,181,044.64 ft	Longitude:	104° 50' 46.032 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.42 °

Well	Pawnee 10-67-36-1					
Well Position	+N/-S	0.0 ft	Northing:	1,533,801.45 ft	Latitude:	40° 47' 48.610 N
	+E/-W	0.0 ft	Easting:	3,181,044.64 ft	Longitude:	104° 50' 46.032 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	0.0 ft

<b>Wellbore</b>	Single Lateral				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	3/22/2010	9.11	67.40	53,455

<b>Design</b>	Plan 1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	7,440.0	0.0	0.0	180.68

<b>Plan Sections</b>										
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	
6,962.5	0.00	0.00	6,962.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,712.5	90.00	180.68	7,440.0	-477.4	-5.6	12.00	12.00	0.00	180.68	
11,474.5	90.00	180.68	7,440.0	-4,239.1	-50.0	0.00	0.00	0.00	0.00	PBHL - Pawnee 10-67

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<b>Site:</b>	Pawnee 10-67-36-1	<b>North Reference:</b>	True
<b>Well:</b>	Pawnee 10-67-36-1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Single Lateral		
<b>Design:</b>	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
6,962.5	0.00	0.00	6,962.5	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	4.50	180.68	7,000.0	-1.5	0.0	1.5	12.00	12.00	0.00
7,500.0	64.50	180.68	7,393.5	-271.9	-3.2	271.9	12.00	12.00	0.00
7,711.5	89.88	180.68	7,440.0	-476.4	-5.6	476.4	12.00	12.00	0.00
<b>Intermediate</b>									
7,712.5	90.00	180.68	7,440.0	-477.4	-5.6	477.5	12.00	12.00	0.00
8,000.0	90.00	180.68	7,440.0	-764.9	-9.0	764.9	0.00	0.00	0.00
8,500.0	90.00	180.68	7,440.0	-1,264.8	-14.9	1,264.9	0.00	0.00	0.00
9,000.0	90.00	180.68	7,440.0	-1,764.8	-20.8	1,764.9	0.00	0.00	0.00
9,500.0	90.00	180.68	7,440.0	-2,264.8	-26.7	2,264.9	0.00	0.00	0.00
10,000.0	90.00	180.68	7,440.0	-2,764.7	-32.6	2,764.9	0.00	0.00	0.00
10,500.0	90.00	180.68	7,440.0	-3,264.7	-38.5	3,264.9	0.00	0.00	0.00
11,000.0	90.00	180.68	7,440.0	-3,764.7	-44.4	3,764.9	0.00	0.00	0.00
11,474.5	90.00	180.68	7,440.0	-4,239.1	-50.0	4,239.4	0.00	0.00	0.00
<b>PBHL - Pawnee 10-67-36-1</b>									

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,711.5	7,440.0	Intermediate	7	8-3/4