

# **Rubicon Oil & Gas**

**Weld County**

**Pawnee 9-65-36-1**

**Pawnee 9-65-36-1**

**Single Lateral**

**Plan: Plan 1**

## **Standard Planning Report**

**07 July, 2010**

## Planning Report

<b>Database:</b>	EDBM 5000.1 Single User Db 64	<b>Local Co-ordinate Reference:</b>	Site Pawnee 9-65-36-1
<b>Company:</b>	Rubicon Oil & Gas	<b>TVD Reference:</b>	Estimated RKB @ 5186.8usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	Estimated RKB @ 5186.8usft
<b>Site:</b>	Pawnee 9-65-36-1	<b>North Reference:</b>	True
<b>Well:</b>	Pawnee 9-65-36-1	<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 9-65-36-1			
Site Position:		Northing:	1,497,948.90 usft	Latitude:	40° 41' 48.520 N
From:	Lat/Long	Easting:	3,248,643.39 usft	Longitude:	104° 36' 11.869 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.58 °

Well	Pawnee 9-65-36-1					
Well Position	+N/-S	0.0 usft	Northing:	1,497,948.90 usft	Latitude:	40° 41' 48.520 N
	+E/-W	0.0 usft	Easting:	3,248,643.39 usft	Longitude:	104° 36' 11.869 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	0.0 usft

<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	7/6/2010	8.93	67.35	53,401

<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) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	1.31

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,750.5	0.00	0.00	6,750.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,500.5	90.00	1.31	7,228.0	477.3	10.9	12.00	12.00	0.00	1.31	
11,401.7	90.00	1.31	7,228.0	4,377.4	100.0	0.00	0.00	0.00	0.00	PBHL

# Planning Report

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<b>Company:</b>	Rubicon Oil & Gas	<b>TVD Reference:</b>	Estimated RKB @ 5186.8usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	Estimated RKB @ 5186.8usft
<b>Site:</b>	Pawnee 9-65-36-1	<b>North Reference:</b>	True
<b>Well:</b>	Pawnee 9-65-36-1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Single Lateral		
<b>Design:</b>	Plan 1		

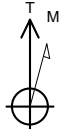
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
750.0	0.00	0.00	750.0	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
1,250.0	0.00	0.00	1,250.0	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
1,750.0	0.00	0.00	1,750.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,250.0	0.00	0.00	2,250.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,750.0	0.00	0.00	2,750.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,250.0	0.00	0.00	3,250.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,750.0	0.00	0.00	3,750.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,250.0	0.00	0.00	4,250.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,750.0	0.00	0.00	4,750.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,250.0	0.00	0.00	5,250.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,750.0	0.00	0.00	5,750.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,250.0	0.00	0.00	6,250.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,750.0	0.00	0.00	6,750.0	0.0	0.0	0.0	0.00	0.00	0.00
6,750.5	0.00	0.00	6,750.5	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	29.94	1.31	6,988.8	63.7	1.5	63.7	12.00	12.00	0.00
7,250.0	59.94	1.31	7,163.8	238.2	5.4	238.3	12.00	12.00	0.00
7,499.0	89.82	1.31	7,228.0	475.8	10.9	475.9	12.00	12.00	0.00
7" Intermediate									
7,500.0	89.94	1.31	7,228.0	476.8	10.9	476.9	12.00	12.00	0.00
7,500.5	90.00	1.31	7,228.0	477.3	10.9	477.5	12.00	12.00	0.00
7,750.0	90.00	1.31	7,228.0	726.7	16.6	726.9	0.00	0.00	0.00
8,000.0	90.00	1.31	7,228.0	976.7	22.3	976.9	0.00	0.00	0.00
8,250.0	90.00	1.31	7,228.0	1,226.6	28.0	1,226.9	0.00	0.00	0.00
8,500.0	90.00	1.31	7,228.0	1,476.5	33.7	1,476.9	0.00	0.00	0.00
8,750.0	90.00	1.31	7,228.0	1,726.5	39.4	1,726.9	0.00	0.00	0.00
9,000.0	90.00	1.31	7,228.0	1,976.4	45.1	1,976.9	0.00	0.00	0.00
9,250.0	90.00	1.31	7,228.0	2,226.3	50.9	2,226.9	0.00	0.00	0.00
9,500.0	90.00	1.31	7,228.0	2,476.3	56.6	2,476.9	0.00	0.00	0.00
9,750.0	90.00	1.31	7,228.0	2,726.2	62.3	2,726.9	0.00	0.00	0.00
10,000.0	90.00	1.31	7,228.0	2,976.2	68.0	2,976.9	0.00	0.00	0.00
10,250.0	90.00	1.31	7,228.0	3,226.1	73.7	3,226.9	0.00	0.00	0.00
10,500.0	90.00	1.31	7,228.0	3,476.0	79.4	3,476.9	0.00	0.00	0.00
10,750.0	90.00	1.31	7,228.0	3,726.0	85.1	3,726.9	0.00	0.00	0.00
11,000.0	90.00	1.31	7,228.0	3,975.9	90.8	3,976.9	0.00	0.00	0.00
11,250.0	90.00	1.31	7,228.0	4,225.8	96.5	4,226.9	0.00	0.00	0.00
11,401.7	90.00	1.31	7,228.0	4,377.4	100.0	4,378.6	0.00	0.00	0.00

## Planning Report

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<b>Company:</b>	Rubicon Oil & Gas	<b>TVD Reference:</b>	Estimated RKB @ 5186.8usft
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<b>Wellbore:</b>	Single Lateral		
<b>Design:</b>	Plan 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL	0.00	0.00	7,228.0	4,377.4	100.0	1,502,327.13	3,248,699.12	40° 42' 31.774 N	104° 36' 10.571 W
- plan hits target center									
- Point									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	7,499.0	7,228.0	7" Intermediate	7	8-3/4



Azimuths to True North  
Magnetic North: 8.93°

Magnetic Field  
Strength: 53400.6snT  
Dip Angle: 67.35°  
Date: 7/6/2010  
Model: IGRF2010

# Rubicon Oil & Gas

County: Weld County  
Well: Pawnee 9-65-36-1  
Wellbore: Single Lateral  
Design: Plan 1  
Rig:

## SITE DETAILS

Legal Location: SEC 36, T9N R65W

Site Centre Latitude: 40° 41' 48.520 N  
Longitude: 104° 36' 11.869 W

Ref. Datum: Estimated RKB @ 5186.8usft  
Positional Uncertainty: 0.0  
Convergence: 0.58

## PROJECT DETAILS

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone

System Datum: Mean Sea Level  
Local North: True

## CASING DETAILS

TVD	MD	Name
7228.0	7499.0	7" Intermediate

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00		0.0	
6750.5	0.00	0.00	6750.5	0.0	0.0	0.00	0.00	0.0	
7500.5	90.00	1.31	7228.0	477.3	10.9	12.00	1.31	477.5	
11401.7	90.00	1.31	7228.0	4377.4	100.0	0.00	0.00	4378.6	PBHL

