

Rubicon Oil & Gas

Weld County

Pawnee 1-2-1

Pawnee 1-2-1

Single Lateral

Plan: Plan 1

Standard Planning Report

19 April, 2010

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site Pawnee 1-2-1
Company:	Rubicon Oil & Gas	TVD Reference:	Est. RKB @ 5506.0ft (Ensign 14)
Project:	Weld County	MD Reference:	Est. RKB @ 5506.0ft (Ensign 14)
Site:	Pawnee 1-2-1	North Reference:	True
Well:	Pawnee 1-2-1	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 1-2-1			
Site Position:		Northing:	1,560,088.89 ft	Latitude:	40° 52' 6.272 N
From:	Lat/Long	Easting:	3,207,514.95 ft	Longitude:	104° 44' 58.985 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.48 °

Well	Pawnee 1-2-1					
Well Position	+N/-S	0.0 ft	Northing:	1,560,088.89 ft	Latitude:	40° 52' 6.272 N
	+E/-W	0.0 ft	Easting:	3,207,514.95 ft	Longitude:	104° 44' 58.985 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	4/19/2010	9.06	67.47	53,494

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 (°)
	0.0	0.0	0.0	185.08

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	
6,897.5	0.00	0.00	6,897.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,647.5	90.00	185.08	7,375.0	-475.6	-42.3	12.00	12.00	0.00	185.08	
11,135.6	90.00	185.08	7,375.0	-3,949.9	-351.0	0.00	0.00	0.00	0.00	PBHL - Pawnee 1-2-1

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site Pawnee 1-2-1
Company:	Rubicon Oil & Gas	TVD Reference:	Est. RKB @ 5506.0ft (Ensign 14)
Project:	Weld County	MD Reference:	Est. RKB @ 5506.0ft (Ensign 14)
Site:	Pawnee 1-2-1	North Reference:	True
Well:	Pawnee 1-2-1	Survey Calculation Method:	Minimum Curvature
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
6,897.5	0.00	0.00	6,897.5	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	12.30	185.08	6,999.2	-10.9	-1.0	11.0	12.00	12.00	0.00
7,500.0	72.30	185.08	7,352.4	-331.0	-29.4	332.3	12.00	12.00	0.00
7,646.5	89.88	185.08	7,375.0	-474.6	-42.2	476.4	12.00	12.00	0.00
Intermediate									
7,647.5	90.00	185.08	7,375.0	-475.6	-42.3	477.5	12.00	12.00	0.00
8,000.0	90.00	185.08	7,375.0	-826.7	-73.5	829.9	0.00	0.00	0.00
8,500.0	90.00	185.08	7,375.0	-1,324.7	-117.7	1,329.9	0.00	0.00	0.00
9,000.0	90.00	185.08	7,375.0	-1,822.7	-162.0	1,829.9	0.00	0.00	0.00
9,500.0	90.00	185.08	7,375.0	-2,320.8	-206.2	2,329.9	0.00	0.00	0.00
10,000.0	90.00	185.08	7,375.0	-2,818.8	-250.5	2,829.9	0.00	0.00	0.00
10,500.0	90.00	185.08	7,375.0	-3,316.9	-294.7	3,329.9	0.00	0.00	0.00
11,000.0	90.00	185.08	7,375.0	-3,814.9	-339.0	3,829.9	0.00	0.00	0.00
11,135.6	90.00	185.08	7,375.0	-3,949.9	-351.0	3,965.5	0.00	0.00	0.00
PBHL - Pawnee 1-2-1									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,646.5	7,375.0	Intermediate	7	8-3/4