

Azimuth to True North
Magnetic North: 9.04°
Magnetic Field
Strength: 53482 BnT
Dip Angle: 67.41°
Date: 3/22/2010
Model: GMR2010

Rubicon Oil & Gas

County: Weld County
Well: Pawnee 1-36-1
Wellbore: Single Lateral
Design: Plan 2
Rig: Ensign 14

SITE DETAILS

Legal Location: SEC 36-T10N-R66W

Site Centre Latitude: 40° 47' 7.890 N

Longitude: 104° 43' 32.765 W

Ref. Datum: Est. RKB @ 5363.0usft (Ensign 14)

Positional Uncertainty: 0.0
Convergence: 0.50

PROJECT DETAILS

Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

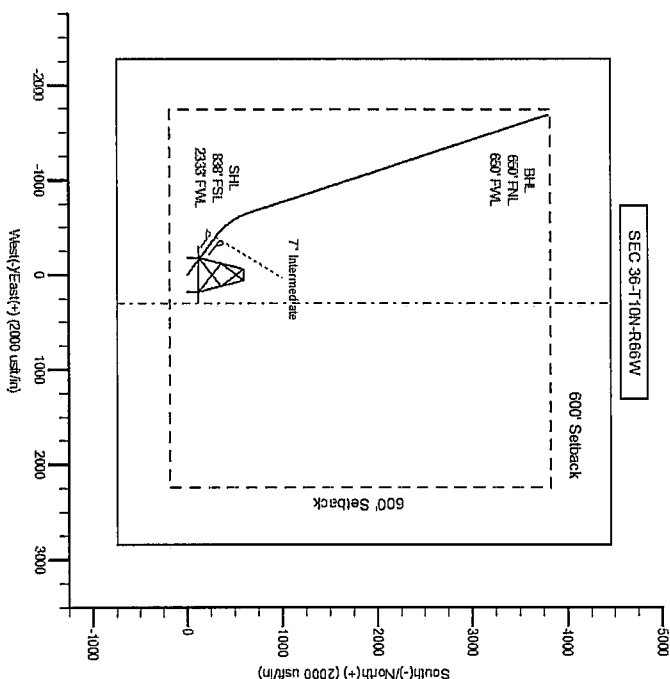
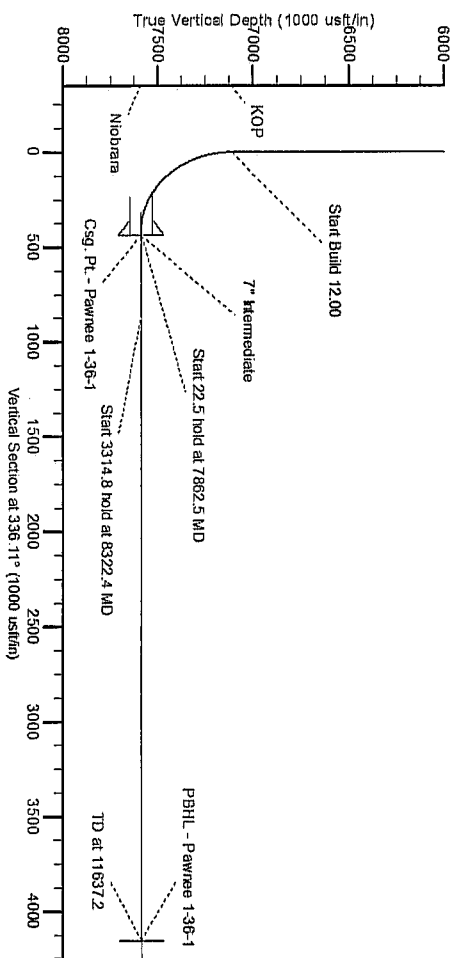
Zone: Colorado Northern Zone

System Datum: Mean Sea Level

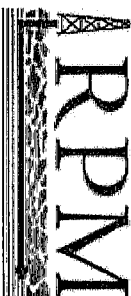
Local North: True

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
2	7112.5	0.00	0.00	7112.5	0.0	0.0	0.00	0.00	0.0	0.0
3	7882.5	90.00	306.87	7590.0	286.5	-382.0	12.00	306.87	416.6	0.0
4	7885.1	90.00	306.87	7590.0	300.0	-400.0	0.00	0.00	436.3	Csg. Pl. - Pawnee 1-36-1
5	8322.4	90.00	341.86	7590.0	650.0	-850.9	8.00	90.00	857.9	0.0
6	1637.2	90.00	341.86	7590.0	3800.0	-1683.0	0.00	0.00	4156.0	PBHL - Pawnee 1-36-1



RPM Consulting
1600 Broadway, Suite 1510
Denver, CO 80202
303-355-7629



Checked By: [Signature]
Reviewed: [Signature]
Date: 1/15/2010
Approved: [Signature]
Date: 1/15/2010

Rubicon Oil & Gas
Weld County
Pawnee 1-36-1
Pawnee 1-36-1
Single Lateral

Plan: Plan 2

Standard Planning Report

07 June, 2010

RPM Consulting Inc.

Planning Report

Database:	EDM 5000.1 Db upgrade	Project:	Well County
	Rubicon Oil & Gas		Well County
Company:	Well County	Map System:	US State Plane 1983
Site:	Pawnee 1-36-1	Geo Datum:	North American Datum 1983
Well:	Pawnee 1-36-1	Map Zone:	Colorado Northern Zone
Wellbore:	Single Lateral	Mean Sea Level	
Design:	Plan 2	System Datum:	

Site Position:	North: 1,529,948.94 usft	East: 3,214,402.60 usft	Lat/Long	104° 43' 32.765 W	40° 47' 7.890 N
Position Uncertainty:	0.0 usft	0.0 usft	0.0 usft	0.50 °	
From:	North	East	Lat/Long	104° 43' 32.765 W	40° 47' 7.890 N

Well:	Pawnee 1-36-1	Wellhead Elevation:	0.0 usft	Ground Level:	0.0 usft
Well Position:	North: 1,529,948.94 usft	East: 3,214,402.60 usft	Latitude: 40° 47' 7.890 N	Longitude: 104° 43' 32.765 W	
Position Uncertainty:	0.0 usft	0.0 usft	0.0 usft	0.0 usft	

Wellbore:	Single Lateral	Sample Date:	3/22/2010	Dip Angle:	67.41	Field Strength:	53.463
Magnetics:	Model Name	Declination:	9.05				

Design:	Plan 2	Audit Notes:	Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/S	+E/W	Direction	336.11		

Plan Sections	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	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00
	7,112.5	0.00	0.00	7,112.5	0.0	0.0	0.0	0.00	0.00	0.00	0.00
	7,862.5	90.00	306.87	7,590.0	288.5	-382.0	12.00	12.00	0.00	0.00	306.87
	7,865.1	90.00	306.87	7,590.0	300.0	-400.0	0.00	0.00	0.00	0.00	0.00
	8,322.4	90.00	341.86	7,590.0	650.0	-650.9	8.00	8.00	0.00	8.00	90.00
	11,637.2	90.00	341.86	7,590.0	3,800.0	-1,683.0	0.00	0.00	0.00	0.00	0.00 PBHL - Pawnee 1-36-

RPM Consulting Inc.

Planning Report

Database:	EDM 5000.1 Db upgrade
Company:	Rubicon Oil & Gas
Project:	Weld County
Well:	Pawnee 1-36-1
Wellbore:	Pawnee 1-36-1
Design:	Plan 2
Local Co-ordinate Reference:	Site Pawnee 1-36-1
TVD Reference:	Est. RKB @ 5363.0usft (Ensign 14)
MD Reference:	Est. RKB @ 5363.0usft (Ensign 14)
North Reference:	True
Survey Calculation Method:	Minimum Curvature

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	7,112.5	0.00	0.00	7,112.5	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	7,500.0	46.50	306.87	7,458.9	89.3	-19.0	129.8	12.00	12.00	0.00
7,862.5	7,862.5	90.00	306.87	7,590.0	286.5	-382.0	416.6	12.00	12.00	0.00
7,884.0	7,884.0	90.00	306.87	7,590.0	299.4	-399.1	435.3	0.00	0.00	0.00
Intermediate										
7,885.1	7,885.1	90.00	306.87	7,590.0	300.0	-400.0	436.3	0.00	0.00	0.00
8,000.0	8,000.0	90.00	316.06	7,590.0	376.0	-486.0	540.6	8.00	8.00	0.00
8,322.4	8,322.4	90.00	341.86	7,590.0	650.0	-650.9	857.9	8.00	8.00	0.00
8,500.0	8,500.0	90.00	341.86	7,590.0	818.7	-706.2	1,034.5	0.00	0.00	0.00
9,000.0	9,000.0	90.00	341.86	7,590.0	1,293.8	-861.9	1,532.0	0.00	0.00	0.00
9,500.0	9,500.0	90.00	341.86	7,590.0	1,769.0	-1,017.5	2,029.5	0.00	0.00	0.00
10,000.0	10,000.0	90.00	341.86	7,590.0	2,244.1	-1,173.2	2,527.0	0.00	0.00	0.00
10,500.0	10,500.0	90.00	341.86	7,590.0	2,719.3	-1,328.9	3,024.5	0.00	0.00	0.00
11,000.0	11,000.0	90.00	341.86	7,590.0	3,194.4	-1,484.6	3,522.0	0.00	0.00	0.00
11,500.0	11,500.0	90.00	341.86	7,590.0	3,669.6	-1,640.3	4,019.5	0.00	0.00	0.00
11,637.2	11,637.2	90.00	341.86	7,590.0	3,800.0	-1,683.0	4,156.0	0.00	0.00	0.00

Design Targets	Target Name	Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	North (usft)	East (usft)	Latitude	Longitude
PBHL - Pawnee 1-36-1	- plan hits target center	- Point	0.00	0.00	7,590.0	3,800.0	-1,683.0	1,533,734.05	3,212,686.49	40° 47' 45.437 N	104° 43' 54.647 W
Csg. Pt. - Pawnee 1-36-	- plan hits target center	- Point	0.00	0.00	7,590.0	300.0	-400.0	1,530,245.43	3,213,999.99	40° 47' 10.854 N	104° 43' 37.965 W

Casing Points	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	7,884.0	7,590.0	Intermediate	7	8-3/4