

Nichols 0994-24-02E
Mesa County, CO
Q180019 & RM-180018
Design #2

Company Name: Laramie Energy, LLC
Nichols 0994-24-02E
Mesa County, CO
Rig: H&P #290
Created By: Will Jircik
Date: 1/7/2018

PROJECT DETAILS: Mesa County, CO
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone
System Datum: Mean Sea Level

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Azimuths to True North
Magnetic North: 9.54°

Strength: 51358.2snT
Dip Angle: 65.42°
Date: 12/24/2017
Model: IGRF2015



WELL DETAILS: Nichols 0994-24-02E					
+N/-S	+E/-W	Northing	Ground Level: Easting	7137.0 Latitude	Longitude
0.0	0.0	1529749.93	2340226.21	39.264661	-107.830558

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2463.0	2613.6	G' Sand
4213.0	4536.2	Williams Fork
5613.0	6020.8	TOG
6513.0	6920.8	Cameo
7173.0	7580.8	Base Cameo Coal
7213.0	7620.8	Rollins

DESIGN #2 ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
394.0	0.00	0.00	394.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1209.4	24.46	40.97	1184.8	129.4	112.4	171.4	171.4	EOB @ 24.46° Inc. / 40.97° Azm	
5205.4	24.46	40.97	4822.2	1378.8	1197.3	1826.1	1826.1	Drop 3° / 100'	
6020.8	0.00	0.00	5613.0	1508.3	1309.7	1997.5	1997.5	EOD @ Vertical	
7870.8	0.00	0.00	7463.0	1508.3	1309.7	1997.5	1997.5	TD @ 7870.8' MD / 7463.0' TVD	

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
292.0	5.60	75.50	291.5	3.6	13.8	11.7	14.3	First MWD Survey @ 292.0' MD / 291.5' TVD	
7849.0	1.84	252.39	7462.5	1535.0	1303.0	2013.3	2057.5	Projection to TD @ 7849.0' MD / 7462.5' TVD	

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL - Nichols 0994-24-02E	463.0	1508.3	1309.7	1531224.12	2341574.14	39.268802	-107.825932	Circle (Radius: 50.0)	

