

Nichols 0994-24-21W  
Mesa County, CO  
Q180592 & RM-180509  
Design #3

Company Name: Laramie Energy, LLC  
Nichols 0994-24-21W  
Mesa County, CO  
Rig: H&P #290  
Created By: Will Jircik  
Date: 5/28/2018



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

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2291.0	2455.1	G' Sand
4041.0	4645.5	Williams Fork
5441.0	6270.7	TOG
6341.0	7171.1	Cameo
7001.0	7831.1	Base Cameo Coal
7041.0	7871.1	Rollins

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Azimuths to True North

Magnetic North: 9.43°

Strength: 51296.5snT

Dip Angle: 65.40°

Date: 5/10/2018

Model: USER DEFINED

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Nichols 0994-24-21W	7291.0	-2682.1	-1006.4	1526558.84	2339043.87	39.255819	-107.834443	Circle (Radius: 50.0)

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.0	/ Build 3° / 100'	
983.3	25.00	200.57	957.1	-167.5	-62.9	178.9	178.9	EOB @ 25.00° Inc. / 200.57° Azm	
2796.0	25.00	200.57	2600.0	-884.8	-332.0	945.0	945.0	Build 3° / 100'	
3325.2	40.88	200.57	3042.7	-1153.3	-432.8	1231.8	1231.8	EOB @ 40.88° Inc. / 200.57° Azm	
5108.6	40.88	200.57	4391.1	-2246.0	-842.8	2398.9	2398.9	Drop 3° / 100'	
6471.1	0.00	0.00	5641.0	-2682.1	-1006.4	2864.7	2864.7	EOD @ Vertical	
8121.1	0.00	0.00	7291.0	-2682.1	-1006.4	2864.7	2864.7	TD @ 8121.1' MD / 7291.0' TVD	

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
293.0	9.80	195.40	291.6	-24.1	-6.6	24.9	25.0	First MWD Survey @ 293.0' MD / 291.6' TVD
8078.0	4.17	262.03	7289.1	-2678.6	-1031.5	2870.2	2889.9	Projection to TD @ 8078.0' MD / 7289.1' TVD

WELL DETAILS: Nichols 0994-24-21W				
+N/-S	+E/-W	Northing	Ground Level: Easting	7212.0 Latitude 39.263183 Longitude -107.830889
0.0	0.0	1529214.19	2340118.74	

