

Nichols 0994-13-18W  
Mesa County, CO  
Q180131 & RM-180116  
Design #2

Company Name: Laramie Energy, LLC  
Nichols 0994-13-18W  
Mesa County, CO  
Rig: H&P #290  
Created By: Will Jircik  
Date: 2/14/2018

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: 9.53°

Strength: 51348.8snT

Dip Angle: 65.42°

Date: 1/24/2018

Model: IGRF2015



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2429.0	2757.6	G' Sand
4179.0	4921.3	Williams Fork
5579.0	6464.3	TOG
6479.0	7364.3	Cameo
7139.0	8024.3	Base Cameo Coal
7179.0	8064.3	Rollins

WELL DETAILS: Nichols 0994-13-18W					
+N/-S	+E/-W	Northing	Ground Level: Easting	7137.0	Latitude
0.0	0.0	1529781.19	2340229.28		39.264747
					Longitude
					-107.830550

DESIGN #2 ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
244.0	0.00	0.00	244.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1444.7	36.02	334.23	1367.2	328.9	-158.7	365.2	365.2	EOB @ 36.02° Inc. / 334.23° Azm	
5263.6	36.02	334.23	4455.8	2351.5	-1135.0	2611.0	2611.0	Drop 3° / 100'	
6464.3	0.00	0.00	5579.0	2680.3	-1293.8	2976.2	2976.2	EOD @ Vertical	
8314.3	0.00	0.00	7429.0	2680.3	-1293.8	2976.2	2976.2	TD @ 8314.3' MD / 7429.0' TVD	

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
203.0	3.60	349.10	202.9	6.3	-1.2	6.2	6.4	First MWD Survey @ 203.0' MD / 202.9' TVD	
8310.0	2.24	235.60	7478.4	2670.4	-1304.8	2972.1	3008.4	Projection to TD @ 8310.0' MD / 7478.4' TVD	

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Nichols 0994-13-18W	7429.0	2680.3	-1293.8	1532493.83	2339004.70	39.272106	-107.835120	Circle (Radius: 50.0)

