

Nichols 0994-13-20E  
Mesa County, CO  
Q180129 & RM-180114  
Design #2

Company Name: Laramie Energy, LLC  
Nichols 0994-13-20E  
Mesa County, CO  
Rig: H&P #290  
Created By: Will Jircik  
Date: 2/6/2018

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
2484.0	2737.0	G' Sand
4234.0	4770.2	Williams Fork
5634.0	6287.2	TOG
6534.0	7187.2	Cameo
7194.0	7847.2	Base Cameo Coal
7234.0	7887.2	Rollins

WELL DETAILS: Nichols 0994-13-20E					
+N/-S	+E/-W	Ground Level:	7137.0	Latitude	Longitude
0.0	0.0	1529770.11	2340235.22	39.264717	-107.830528

DESIGN 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')	
1264.1	30.60	32.04	1216.3	225.5	141.1	266.0	266.0	EOB @ 30.60° Inc. / 32.04° Azm	
5267.1	30.60	32.04	4661.7	1952.9	1222.3	2303.9	2303.9	Drop 3° / 100'	
6287.2	0.00	0.00	5634.0	2178.4	1363.4	2569.9	2569.9	EOD @ Vertical	
8137.2	0.00	0.00	7484.0	2178.4	1363.4	2569.9	2569.9	TD @ 8137.2' MD / 7484.0' TVD	

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
112.0	0.30	35.80	112.0	0.2	0.2	0.3	0.3	First MWD Survey @ 112.0' MD / 112.0' TVD	
8130.0	3.96	262.94	7489.2	2188.4	1331.5	2561.4	2644.2	Projection to TD @ 8130.0' MD / 7489.2' TVD	

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Nichols 0994-13-20E	484.0	2178.4	1363.4	1531912.86	2341654.08	39.270698	-107.825712	Circle (Radius: 50.0)

