

Nichols 0994-13-18E  
Mesa County, CO  
Q180130 & RM-180115  
Design #2

Company Name: Laramie Energy, LLC  
Nichols 0994-13-18E  
Mesa County, CO  
Rig: H&P #290  
Created By: Will Jircik  
Date: 2/12/2018

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
2496.0	2840.4	G' Sand
4248.0	4970.9	Williams Fork
5646.0	6508.3	TOG
6546.0	7408.3	Cameo
7206.0	8068.3	Base Cameo Coal
7246.0	8108.3	Rollins



WELL DETAILS: Nichols 0994-13-18E					
+N/-S	+E/-W	Northing	Ground Level: Easting	7137.0	Latitude
0.0	0.0	1529776.96	2340237.95	39.264736	Longitude
					-107.830519

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Nichols 0994-13-18E	496.0	2682.5	1320.1	1532424.74	2341626.41	39.272101	-107.825856	Circle (Radius: 50.0)

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
144.0	0.00	0.00	144.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1303.1	34.77	26.20	1233.3	306.0	150.6	341.1	341.1	EOB @ 34.77° Inc. / 26.20° Azm	
5349.2	34.77	26.20	4556.7	2376.5	1169.5	2648.7	2648.7	Drop 3° / 100'	
6508.3	0.00	0.00	5646.0	2682.5	1320.1	2989.7	2989.7	EOD @ Vertical	
8358.3	0.00	0.00	7496.0	2682.5	1320.1	2989.7	2989.7	TD @ 8358.3' MD / 7496.0' TVD	

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
203.0	3.20	29.50	202.9	4.9	2.8	5.7	5.7	First MWD Survey @ 203.0' MD / 202.9' TVD	
8338.0	2.90	243.95	7491.2	2679.2	1310.9	2982.7	3036.7	Projection to TD @ 8338.0' MD / 7491.2' TVD	

