

Nichols 0994-24-08E  
Mesa County, CO  
Q171466 & RM-171251  
Design #2

Company Name: Laramie Energy, LLC  
Nichols 0994-24-08E  
Mesa County, CO  
Rig: H&P #290  
Created By: Will Jircik  
Date: 11/29/2017

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: 9.55°

Strength: 51370.3snT  
Dip Angle: 65.42°  
Date: 11/14/2017  
Model: IGRF2015



WELL DETAILS: Nichols 0994-24-08E					
+N/-S	+E/-W	Northing	Ground Level: Easting	7137.0 Latitude	Longitude
0.0	0.0	1529708.89	2340207.03	39.264547	-107.830622

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
694.0	0.00	0.00	694.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1269.2	17.26	85.74	1260.5	6.4	85.7	86.0	86.0	EOB @ 17.26° Inc / 85.74° Azm	
5184.3	17.26	85.74	4999.5	92.7	1243.8	1247.3	1247.3	Drop 3° / 100'	
5759.5	0.00	0.00	5566.0	99.1	1329.6	1333.3	1333.3	EOB @ Vertical	
7609.5	0.00	0.00	7416.0	99.1	1329.6	1333.3	1333.3	TD @ 7609.5' MD / 7416.0' TVD	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Nichols 0994-24-08E416.0	99.1	1329.6	1529773.87	2341538.70	39.264819	-107.825926	Shape Circle (Radius: 50.0)

ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure
200.0	2.20	187.20	200.0	-3.8	-0.5	-0.8	3.8
7627.0	1.80	211.70	7441.3	86.5	1329.3	1332.0	1380.5
First MWD Survey @ 200.0' MD / 200.0' TVD Projection to TD @ 7627.0' MD / 7441.3' TVD							

