

Nichols 0994-24-09E
Mesa County, CO
Q171465 & RM-11250
Design #2

Company Name: Laramie Energy, LLC
Nichols 0994-24-09E
Mesa County, CO
Rig: H&P #290
Created By: Will Jircik
Date: 11/24/2017

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



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2408.0	2469.5	G' Sand
4158.0	4307.8	Williams Fork
5558.0	5758.5	TOG
6458.0	6658.5	Cameo
7118.0	7318.5	Base Cameo Coal
7158.0	7358.5	Rollins

WELL DETAILS: Nichols 0994-24-09E									
+N/-S	+E/-W	Northing	Ground Level: Easting	7137.0	Latitude	39.264528	Longitude	-107.830633	
0.0	0.0	1529702.06	2340203.74						
DESIGN #2 ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
794.0	0.00	0.00	794.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1388.5	17.83	95.82	1378.9	-9.3	91.3	91.8	91.8	EOB @ 17.83° Inc / 95.82° Azm	
5164.1	17.83	95.82	4973.1	-126.5	1241.7	1248.1	1248.1	Drop 3° / 100'	
5758.5	0.00	0.00	5558.0	-135.8	1333.0	1339.9	1339.9	EOB @ Vertical	
7608.5	0.00	0.00	7408.0	-135.8	1333.0	1339.9	1339.9	TD @ 7608.5' MD / 7408.0' TVD	
ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
111.0	1.60	212.50	111.0	-1.3	-0.8	-0.7	1.5	First MWD Survey @ 111.0' MD / 111.0' TVD	
7629.0	2.50	256.80	7426.2	-128.4	1328.9	1335.1	1423.4	Projection to TD @ 7629.0' MD / 7426.2' TVD	

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Nichols 0994-24-09E	7408.0	-135.8	1333.0	1529532.11	2341532.79	39.264155	-107.825925	Circle (Radius: 50.0)

