

Nichols 0994-24-06E  
Mesa County, CO  
Q171560 & RM-171331  
Design #2

Company Name: Laramie Energy, LLC  
Nichols 0994-24-06E  
Mesa County, CO  
Rig: H&P #290  
Created By: Will Jircik  
Date: 12/18/2017

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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M

Azimuths to True North  
Magnetic North: 9.55°

Strength: 51364.2snT  
Dip Angle: 65.42°  
Date: 12/4/2017  
Model: IGRF2015



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2436.0	2512.7	G' Sand
4186.0	4352.6	Williams Fork
5586.0	5804.0	TOG
6486.0	6704.0	Cameo
7146.0	7364.0	Base Cameo Coal
7186.0	7404.0	Rollins

WELL DETAILS: Nichols 0994-24-06E						
+N/-S 0.0	+E/-W 0.0	Northing 1529722.96	Ground Level: 7137.0		Latitude 39.264586	Longitude -107.830603
			Easting 2340212.77			

DESIGN #2 ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
544.0	0.00	0.00	544.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1143.5	17.99	66.75	1133.7	36.8	85.7	93.3	93.3	EOB @ 17.99° Inc. / 66.75° Azm	
5204.5	17.99	66.75	4996.3	531.8	1237.9	1347.2	1347.2	Drop 3° / 100'	
5804.0	0.00	0.00	5586.0	568.6	1323.6	1440.6	1440.6	EOD @ Vertical	
7654.0	0.00	0.00	7436.0	568.6	1323.6	1440.6	1440.6	TD @ 7654.0' MD / 7436.0' TVD	

ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure
293.0	3.70	102.60	292.8	-2.1	9.2	7.6	9.5
7656.0	1.70	160.70	7450.0	562.8	1342.2	1455.3	1507.0

First MWD Survey @ 293.0' MD / 292.8' TVD  
Projection to TD @ 7656.0' MD / 7450.0' TVD

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Nichols 0994-24-06E	436.0	568.6	1323.6	1530257.41	2341550.52	39.266147	-107.825928

Shape  
Circle (Radius: 50.0)

