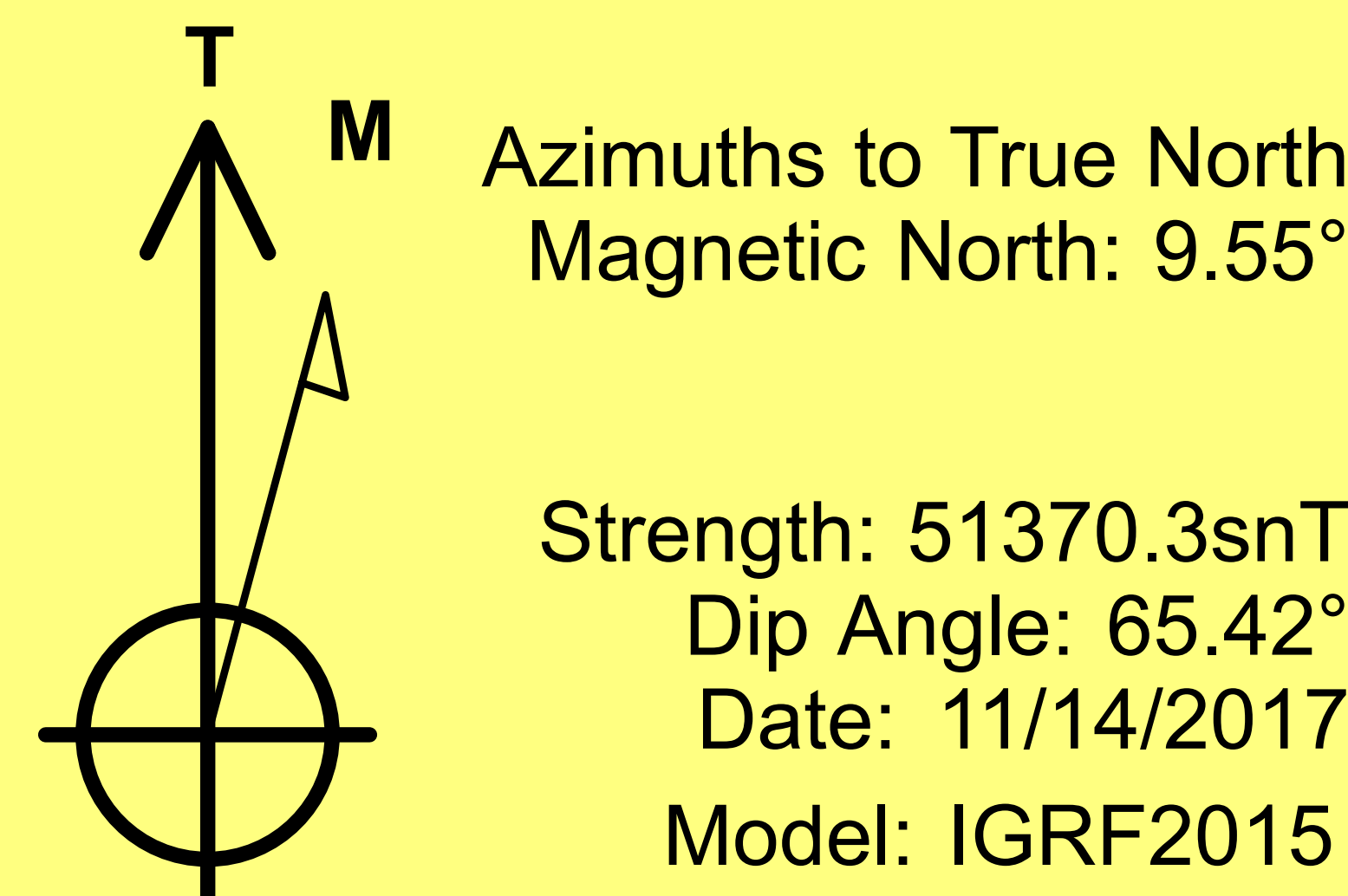


Nichols 0994-24-07W  
Mesa County, CO  
Q171468 & RM-171253  
Design #2

Company Name: Laramie Energy, LLC  
Nichols 0994-24-07W  
Mesa County, CO  
Rig: H&P #290  
Created By: Will Jircik  
Date: 12/8/2017

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



WELL DETAILS: Nichols 0994-24-07W

+N/-S	+E/-W	Northing	Ground Level: Easting	7137.0	Latitude	Longitude
0.0	0.0	1529720.34	2340201.09		39.264578	-107.830644

DESIGN #2 ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
494.0	0.00	0.00	494.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')
1043.9	16.50	279.05	1036.3	12.4	-77.6	78.6	78.6	EOB @ 16.50° Inc. / 279.05° Azm
5132.6	16.50	279.05	4956.7	194.9	-1224.2	1239.6	1239.6	Drop 3° / 100'
5682.4	0.00	0.00	5499.0	207.3	-1301.8	1318.2	1318.2	EOB @ Vertical
7532.4	0.00	0.00	7349.0	207.3	-1301.8	1318.2	1318.2	TD @ 7532.4' MD / 7349.0' TVD

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
201.0	1.30	205.20	201.0	-2.1	-1.0	0.6	2.3	First MWD Survey @ 201.0' MD / 201.0' TVD
7531.0	3.00	248.00	7354.9	219.8	-1317.8	1336.0	1350.4	Projection to TD @ 7531.0' MD / 7354.9' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Nichols 0994-24-07W	649.0	207.3	-1301.8	1529960.96	2338905.02	39.265147	-107.835242	Circle (Radius: 50.0)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2349.0	2412.9	G' Sand
4099.0	4238.0	Williams Fork
5499.0	5682.4	TOG
6399.0	6582.4	Cameo
7059.0	7242.4	Base Cameo Coal
7099.0	7282.4	Rollins

