

Nichols 0994-24-07E  
Mesa County, CO  
Q171467 & RM-171252  
Design #2

Company Name: Laramie Energy, LLC  
Nichols 0994-24-07E  
Mesa County, CO  
Rig: H&P #290  
Created By: Will Jircik  
Date: 12/5/2017

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: 51370.3snT

Dip Angle: 65.42°

Date: 11/14/2017

Model: IGRF2015



WELL DETAILS: Nichols 0994-24-07E						
+N/-S	+E/-W	Northing	Ground Level: Easting	7137.0	Latitude	Longitude
0.0	0.0	1529716.09	2340210.33		39.264567	-107.830611

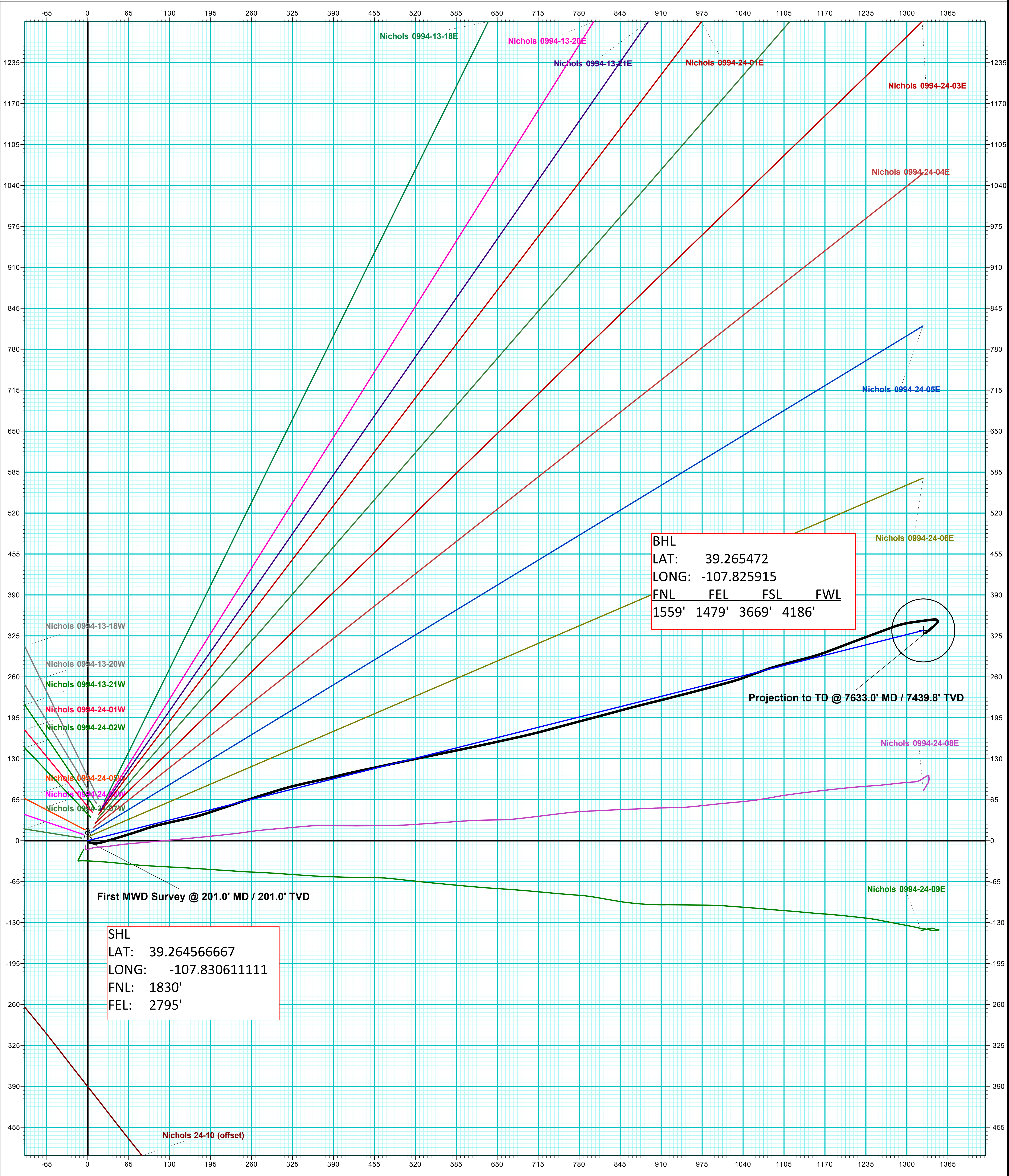
DESIGN #2 ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSecDeparture	Annotation
594.0	0.00	0.00	594.0	0.0	0.0	0.0	KOP (Build 3° / 100')
1169.5	17.26	75.88	1160.8	21.0	83.5	86.1	EOB @ 17.26° Inc / 75.88° Azm
5199.5	17.26	75.88	5009.4	312.7	1242.8	1281.5	Drop 3° / 100'
5774.7	0.00	75.88	5576.0	333.7	1326.2	1367.5	EOB @ Vertical
7624.7	0.00	0.00	7426.0	333.7	1326.2	1367.5	TD @ 7624.7' MD / 7426.0' TVD

ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSecDeparture	Annotation
201.0	1.00	142.10	201.0	-1.4	1.1	0.7	1.8 First MWD Survey @ 201.0' MD / 201.0' TVD
7633.0	1.40	232.60	7439.8	329.5	1329.5	1369.7	Projection to TD @ 7633.0' MD / 7439.8' TVD

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Nichols 0994-24-07E	426.0	333.7	1326.2	1530015.64	2341544.61	39.265483	-107.825927	Circle (Radius: 50.0)



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2426.0	2494.3	G' Sand
4176.0	4326.8	Williams Fork
5576.0	5774.7	TOG
6476.0	6674.7	Cameo
7136.0	7334.7	Base Cameo Coal
7176.0	7374.7	Rollins



BHL  
LAT: 39.265472  
LONG: -107.825915  
FNL FEL FSL FWL  
1559' 1479' 3669' 4186'

SHL  
LAT: 39.264566667  
LONG: -107.830611111  
FNL: 1830'  
FEL: 2795'