

CC 0697-04-06E
Garfield County, CO
Q190923 & RM-190812
Design #3

Company Name: Laramie Energy, LLC
CC 0697-04-06E
Garfield County, CO
Rig: RKB 30'
Created By: Will Jircik
Date: 4:42, June 03 2019

PROJECT DETAILS: Garfield 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: CC 0697-04-06E

| +N/-S | +E/-W | Northing | Easting | 8609.0 Latitude | Longitude |
|-------|-------|------------|------------|--------------------|-------------|
| 0.0 | 0.0 | 1639424.82 | 2233533.61 | 39.557519 | -108.218817 |

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|--------|------------------|
| 606.0 | 606.4 | Mahogany |
| 4764.0 | 4793.0 | Wasatch 'G' Sand |
| 6464.0 | 6501.0 | Ohio Creek |
| 6614.0 | 6651.0 | Williams Fork |
| 7414.0 | 7451.0 | TOG |
| 9064.0 | 9101.0 | Cameo |
| 9294.0 | 9331.0 | Base Cameo Coal |
| 9314.0 | 9351.0 | Rollins |
| 9552.0 | 9589.0 | Cozzette |
| 9825.0 | 9862.0 | Corcoran |

T M Azimuths to True North
Magnetic North: 9.58°

Strength: 51434.4snT
Dip Angle: 65.80°
Date: 5/25/2019
Model: HDGM

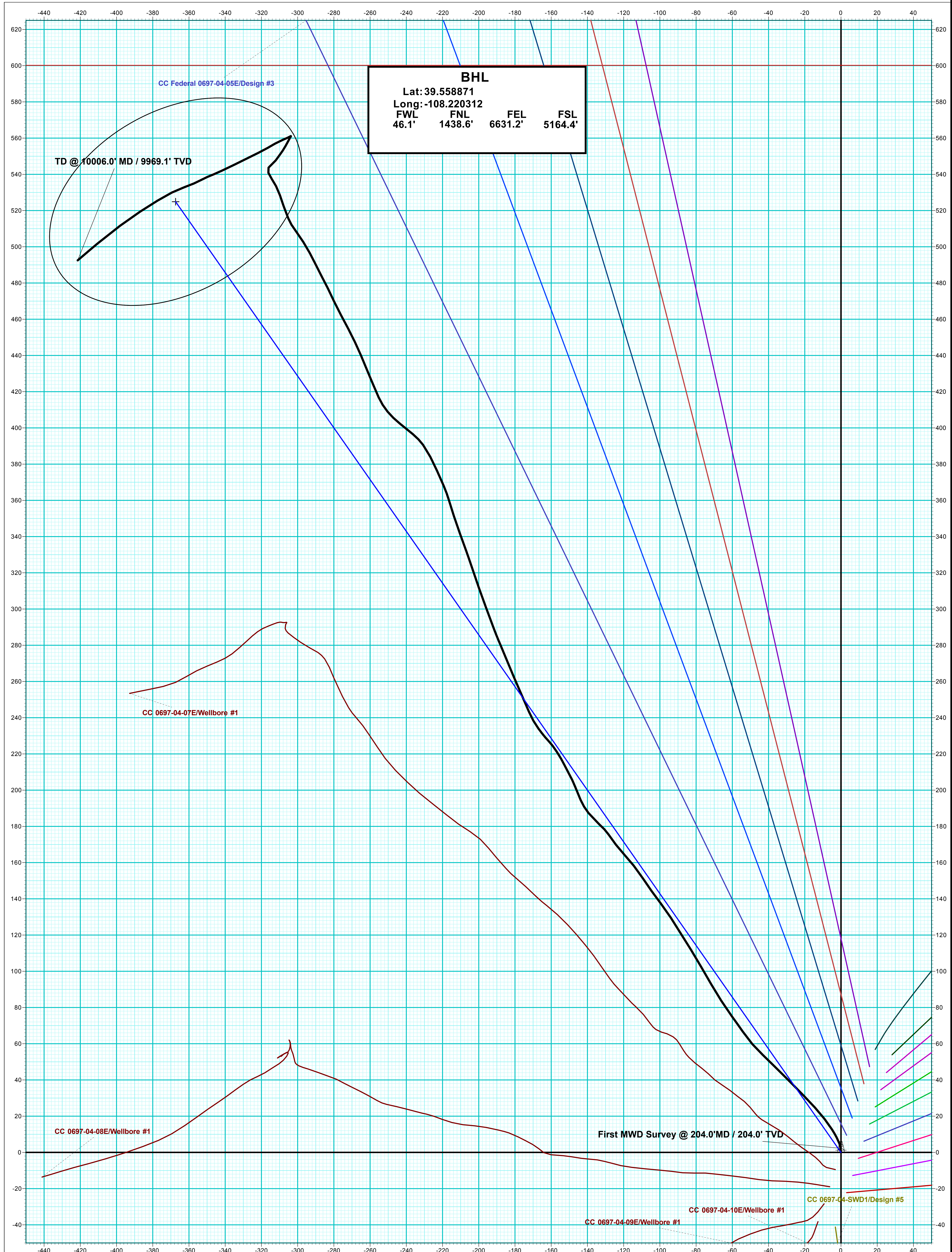
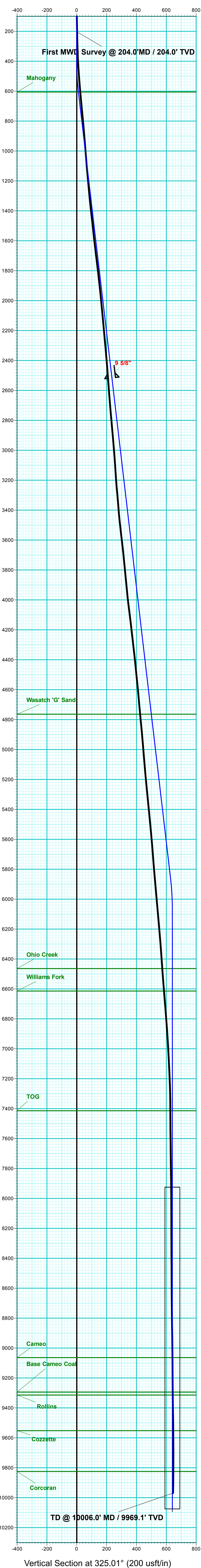


DESIGN ANNOTATIONS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | Vsect | Departure | Annotation |
|---------|------|--------|---------|-------|--------|-------|-----------|---------------------------------|
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.0 | KOP/ (Build 3.00"/100') |
| 623.4 | 6.70 | 325.01 | 622.9 | 10.7 | -7.5 | 13.1 | 13.1 | EOB @ 6.70" Inc / 325.01" Azm |
| 5888.6 | 6.70 | 325.01 | 5852.1 | 514.2 | -359.9 | 627.6 | 627.6 | Drop @ 3.00"/100' |
| 6112.0 | 0.00 | 0.00 | 6075.0 | 524.9 | -367.4 | 640.7 | 640.7 | EOD @ Vertical |
| 10112.0 | 0.00 | 0.00 | 10075.0 | 524.9 | -367.4 | 640.7 | 640.7 | TD @ 10112.0' MD / 10075.0' TVD |

DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-----------------------|---------|-------|--------|------------|------------|-----------|-------------|
| PBHL - CC 0697-04-06E | 10075.0 | 524.9 | -367.4 | 1639960.48 | 2233182.10 | 39.558960 | -108.220120 |



Vertical Section at 325.01° (200 usft/in)