

Gunderson 0994-14-12E  
Mesa County, CO  
Q180431 & RM-180369  
Design #1

Company Name: Laramie Energy, LLC  
Gunderson 0994-14-12E  
Mesa County, CO  
Rig: H&P #522  
Created By: Will Jircik  
Date: 4/12/2018

|                  |                           |
|------------------|---------------------------|
| 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            |

T

M

Azimuths to True North

Magnetic North: 9.45°

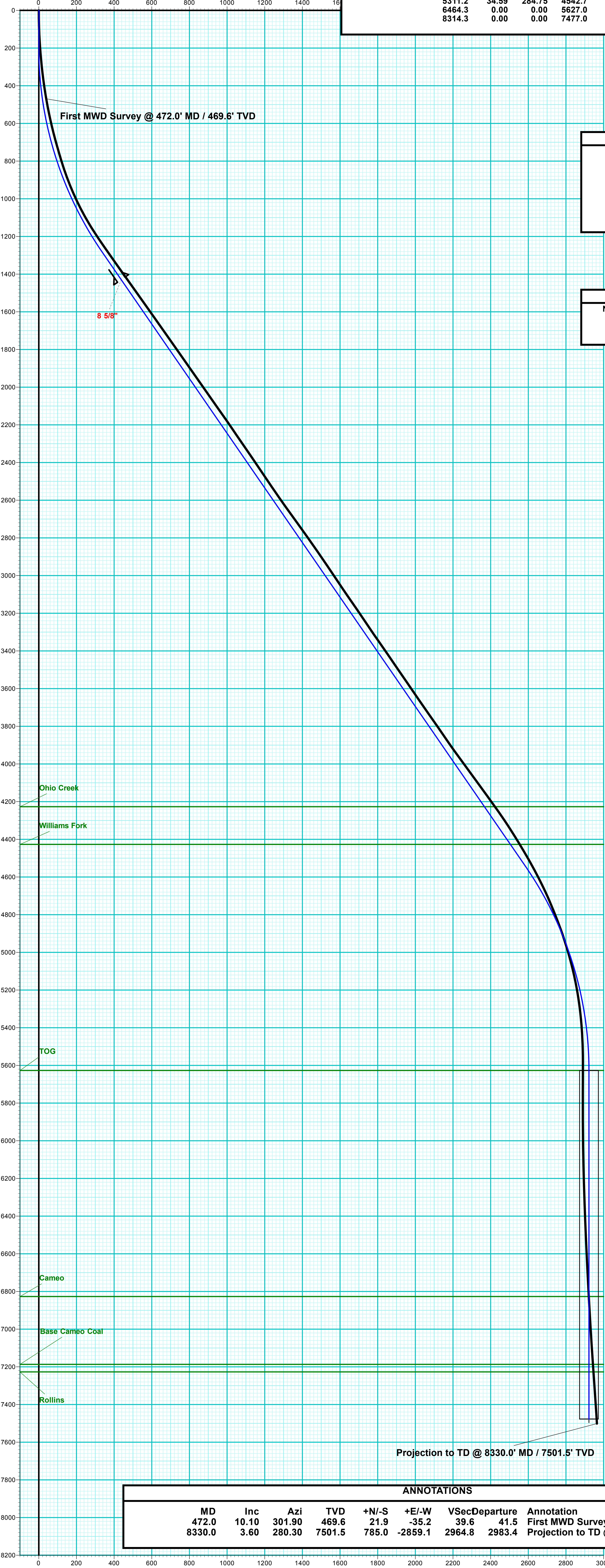
Strength: 51312.4snT

Dip Angle: 65.41°

Date: 4/5/2018

Model: USER DEFINED

| DESIGN #1 ANNOTATIONS |       |        |        |       |         |        |           |                                 |  |
|-----------------------|-------|--------|--------|-------|---------|--------|-----------|---------------------------------|--|
| MD                    | Inc   | Azi    | TVD    | +N/-S | +E/-W   | VSect  | Departure | Annotation                      |  |
| 200.0                 | 0.00  | 0.00   | 200.0  | 0.0   | 0.0     | 0.0    | 0.0       | KOP (Build 3° / 100')           |  |
| 1353.0                | 34.59 | 284.75 | 1284.3 | 86.0  | -326.5  | 337.6  | 337.6     | EOB @ 34.59° Inc. / 284.75° Azm |  |
| 5311.2                | 34.59 | 284.75 | 4542.7 | 658.3 | -2499.5 | 2584.8 | 2584.8    | Drop 3° / 100'                  |  |
| 6464.3                | 0.00  | 0.00   | 5627.0 | 744.3 | -2826.0 | 2922.4 | 2922.4    | EOD @ Vertical                  |  |
| 8314.3                | 0.00  | 0.00   | 7477.0 | 744.3 | -2826.0 | 2922.4 | 2922.4    | TD @ 8314.3' MD / 7477.0' TVD   |  |

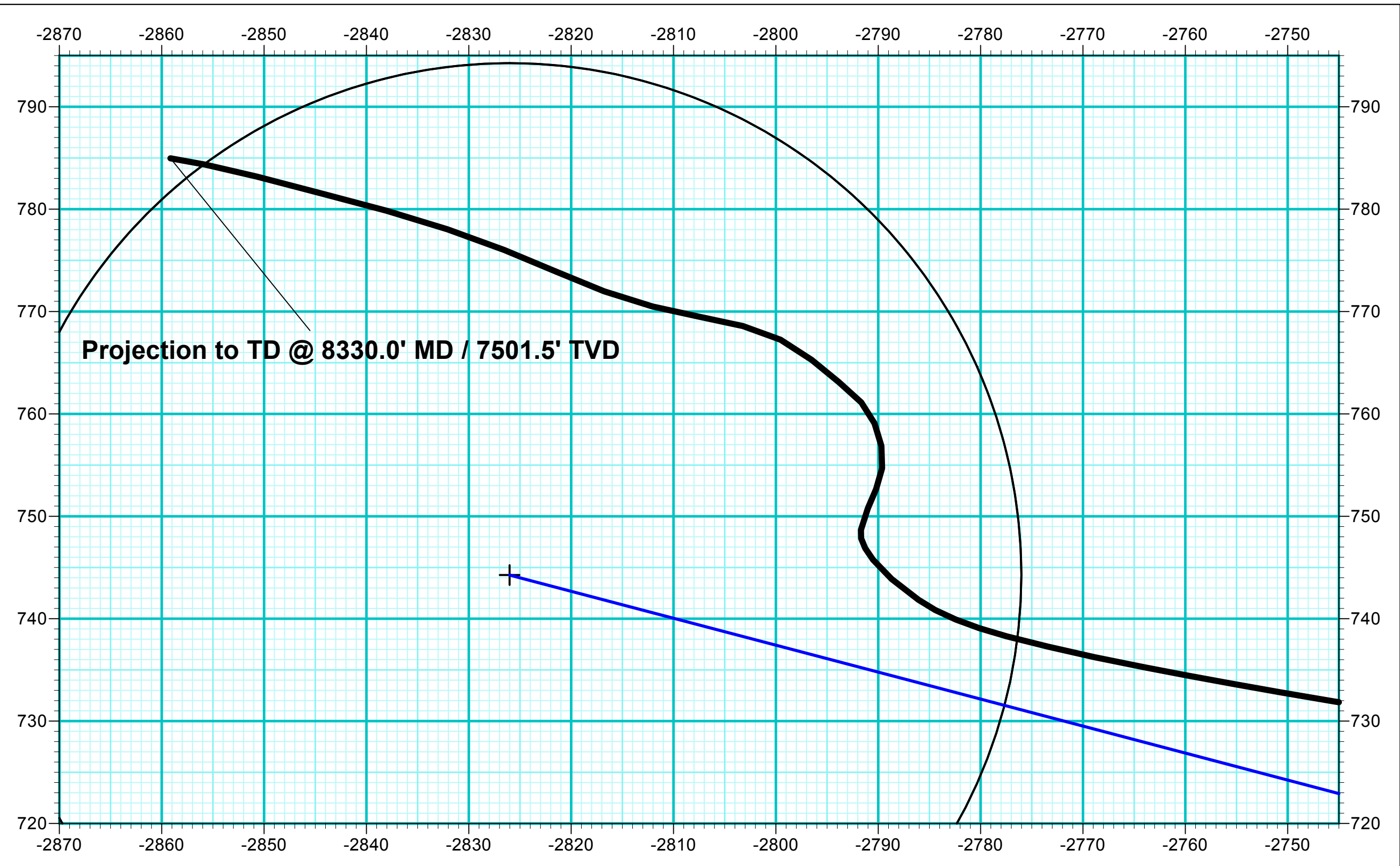
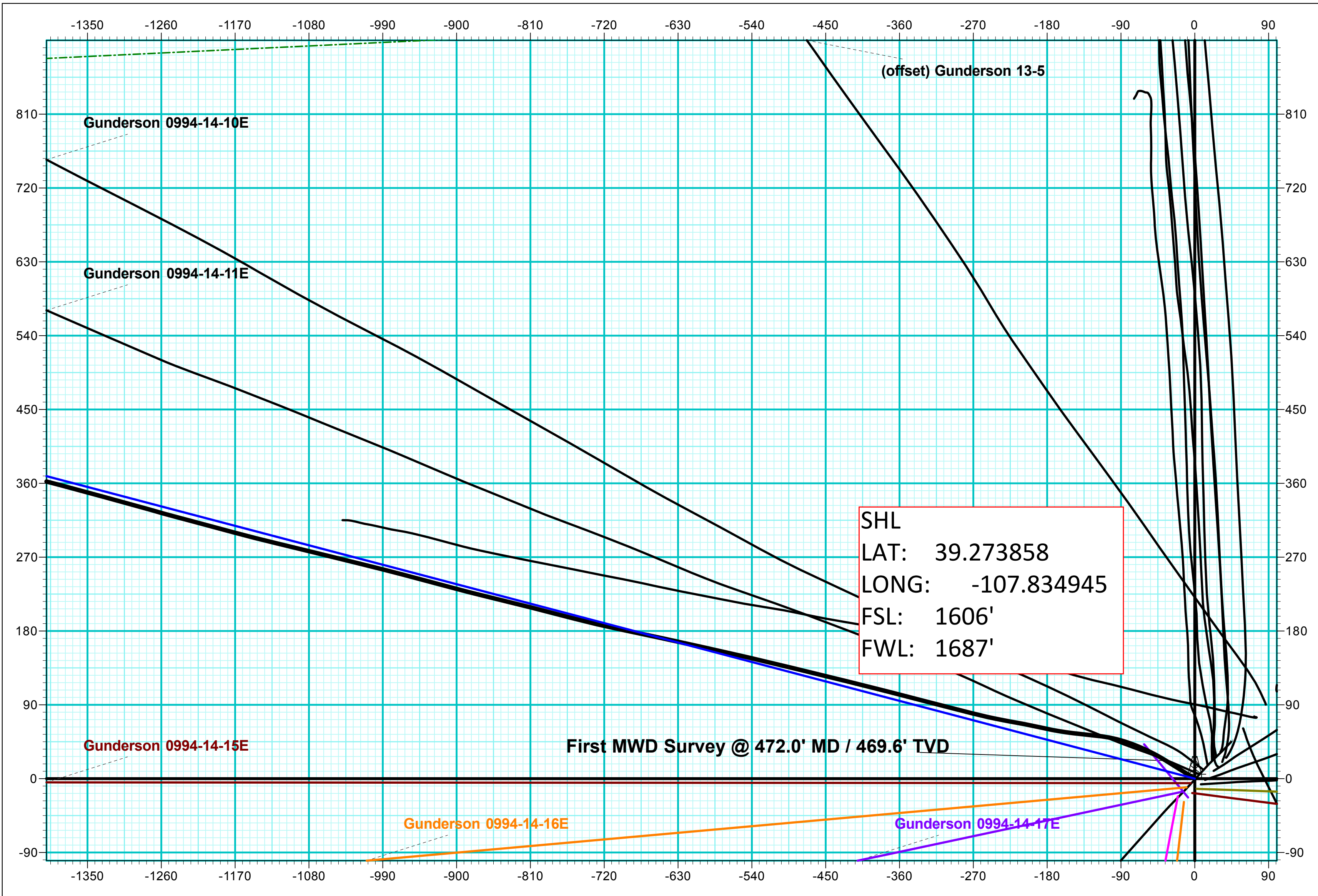
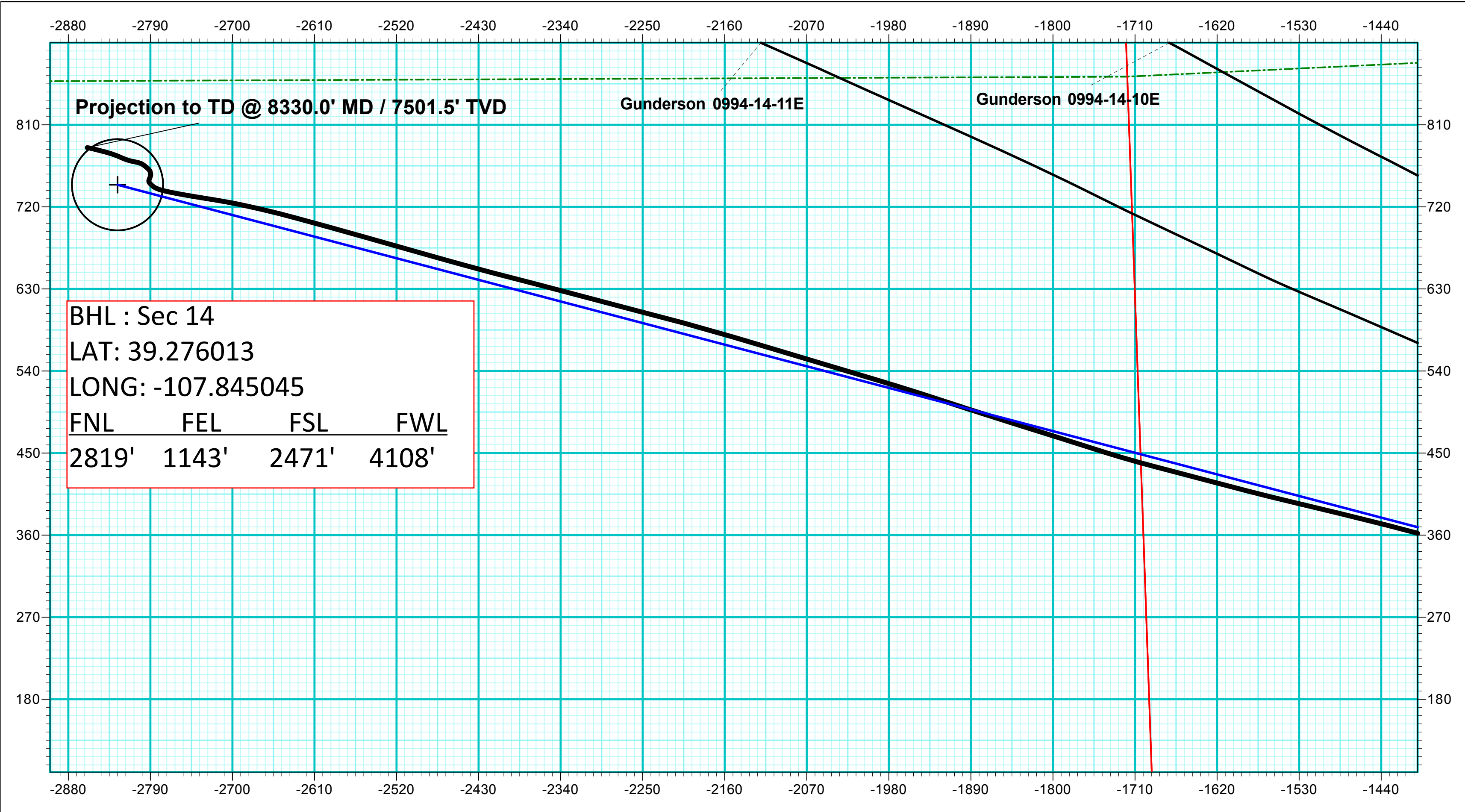


| FORMATION TOP DETAILS |        |                 |
|-----------------------|--------|-----------------|
| TVDPath               | MDPath | Formation       |
| 4227.0                | 4927.7 | Ohio Creek      |
| 4427.0                | 5170.6 | Williams Fork   |
| 5627.0                | 6464.3 | TOG             |
| 6827.0                | 7664.3 | Cameo           |
| 7187.0                | 8024.3 | Base Cameo Coal |
| 7227.0                | 8064.3 | Rollins         |



| DESIGN TARGET DETAILS        |       |       |         |            |            |           |             |                       |
|------------------------------|-------|-------|---------|------------|------------|-----------|-------------|-----------------------|
| Name                         | TVD   | +N/-S | +E/-W   | Northing   | Easting    | Latitude  | Longitude   | Shape                 |
| PBHL - Gunderson 0994-14-12E | 472.0 | 744.3 | -2826.0 | 1533947.09 | 2336264.66 | 39.275901 | -107.844928 | Circle (Radius: 50.0) |

| WELL DETAILS: Gunderson 0994-14-12E |       |            |            |           |             |  |
|-------------------------------------|-------|------------|------------|-----------|-------------|--|
| +N/-S                               | +E/-W | Northing   | Easting    | Latitude  | Longitude   |  |
| 0.0                                 | 0.0   | 1533130.45 | 2339070.62 | 39.273858 | -107.834945 |  |



| ANNOTATIONS |       |        |        |       |         |        |           |   |  |
|-------------|-------|--------|--------|-------|---------|--------|-----------|---|--|
| MD          | Inc   | Azi    | TVD    | +N/-S | +E/-W   | VSect  | Departure | Annotation                                  |  |
| 472.0       | 10.10 | 301.90 | 469.6  | 21.9  | -35.2   | 39.6   | 41.5      | First MWD Survey @ 472.0' MD / 469.6' TVD   |  |
| 8330.0      | 3.60  | 280.30 | 7501.5 | 785.0 | -2859.1 | 2964.8 | 2983.4    | Projection to TD @ 8330.0' MD / 7501.5' TVD |  |

Vertical Section at 284.75° (200 usft/in)