

One Energy Partners

WELL DETAILS: WCXY State Com 1H

GE 3513.6 + 25' KB @ 3538.6usft (25' KB)  
Ground Level: 3513.6

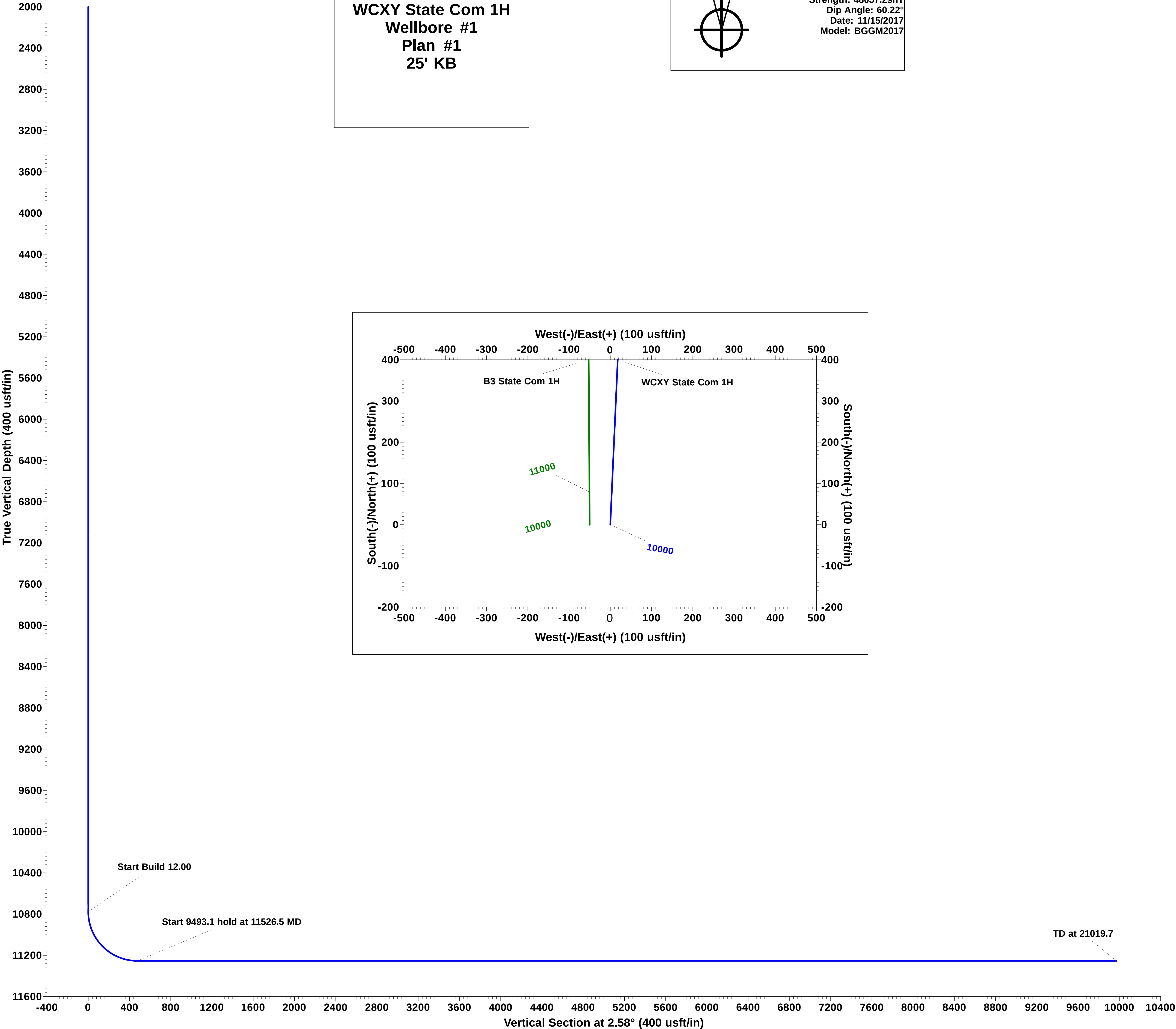
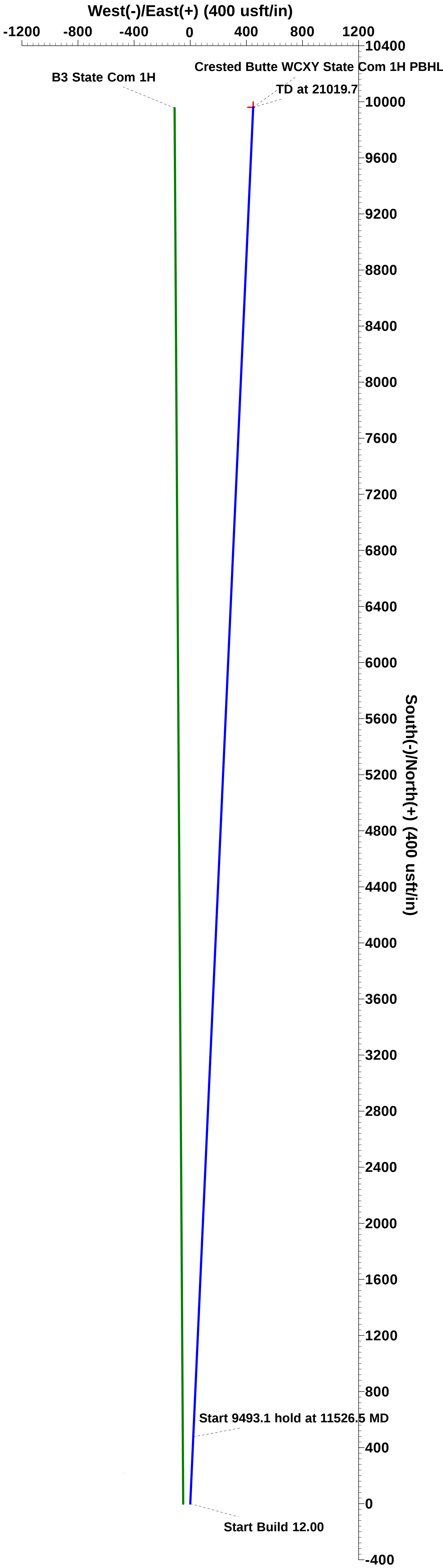
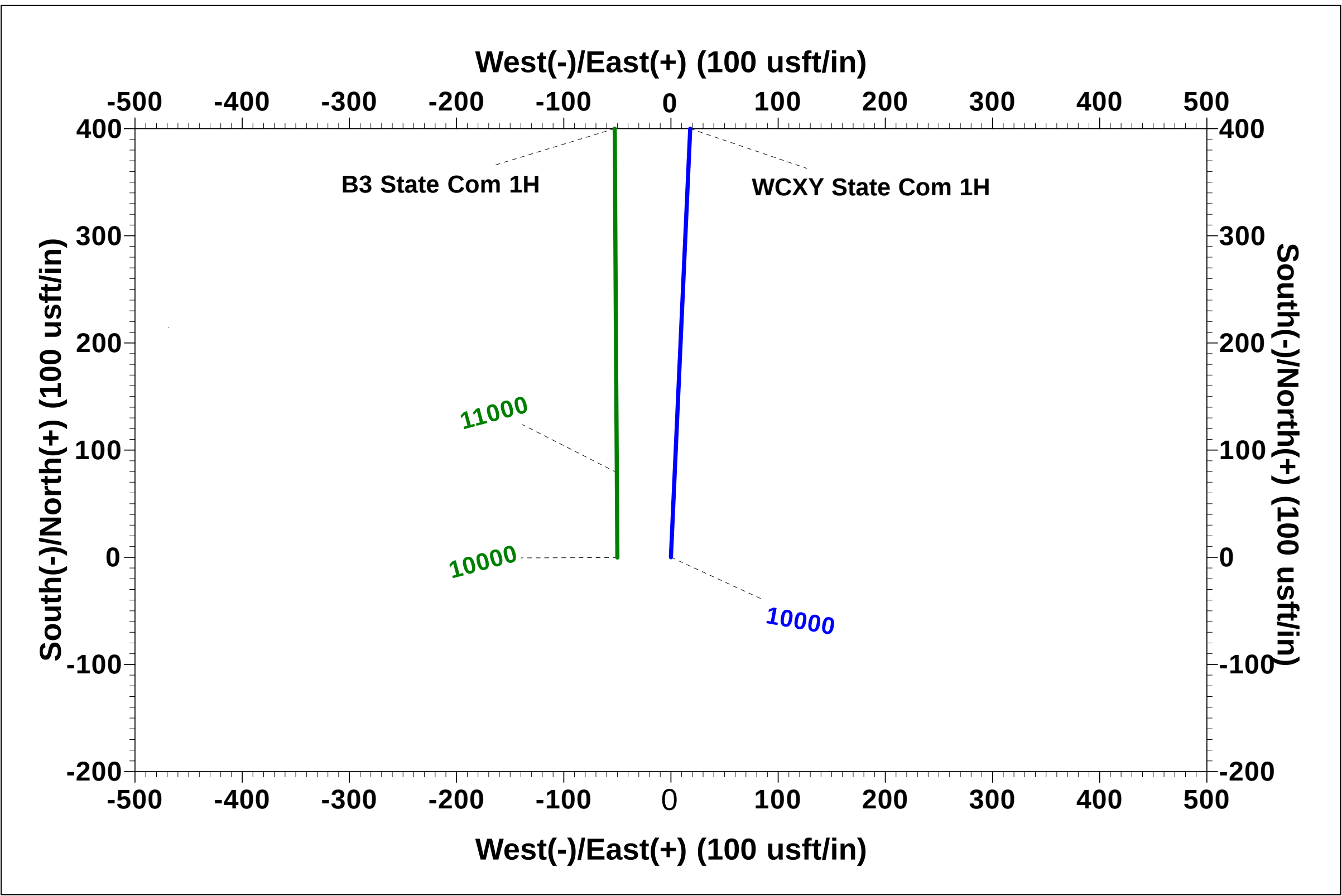
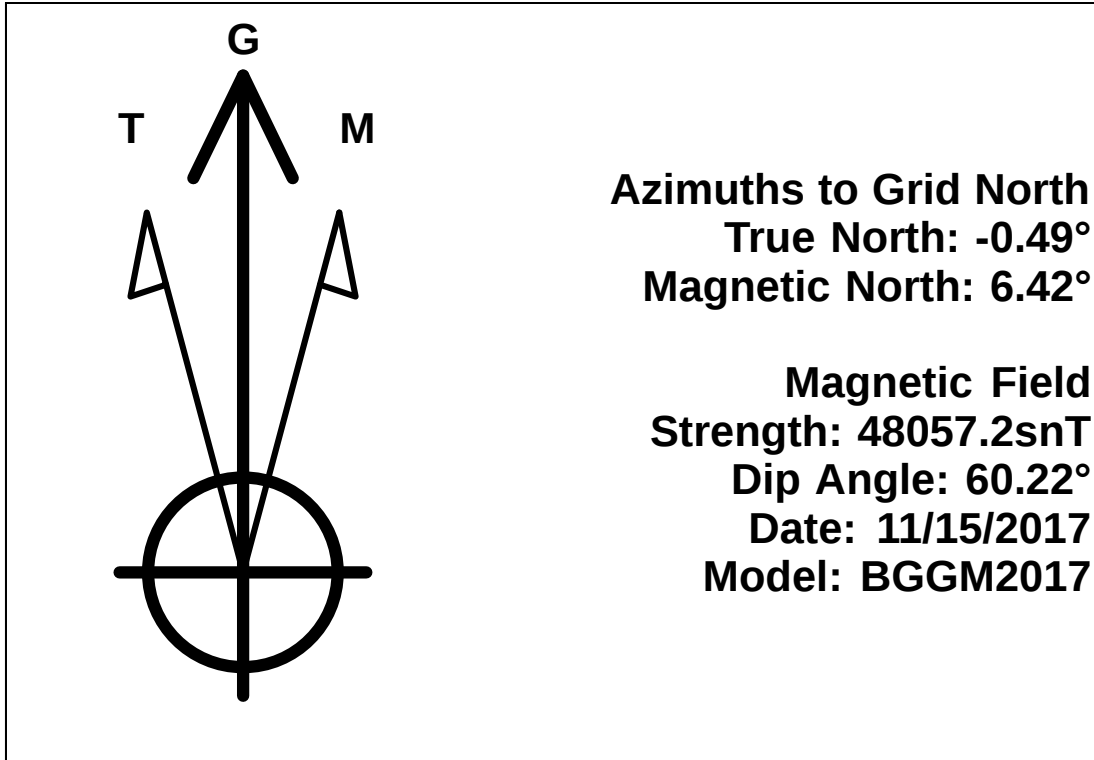
0.00.0Northing504955.57Easting781398.03Latittude32° 23' 5.790 N Longitude103° 25' 18.371 W

SECTION DETAILS

Plan #1

| Sec | MD      | Inc   | Azi  | TVD     | +N/-S  | +E/-W | Dleg  | VSect  | Annotation |
|-----|---------|-------|------|---------|--------|-------|-------|--------|------------|
| 1   | 0.0     | 0.00  | 0.00 | 0.0     | 0.0    | 0.0   | 0.00  | 0.0    |            |
| 2   | 10776.5 | 0.00  | 0.00 | 10776.5 | 0.0    | 0.0   | 0.00  | 0.0    |            |
| 3   | 11526.5 | 90.00 | 2.58 | 11254.0 | 477.0  | 21.5  | 12.00 | 477.5  |            |
| 4   | 21019.7 | 90.00 | 2.58 | 11254.0 | 9960.5 | 448.6 | 0.00  | 9970.6 |            |

Lea County, NM (NAD 27)  
Crested Butte  
WCXY State Com 1H  
Wellbore #1  
Plan #1  
25' KB



25' KB

# One Energy Partners

Lea County, NM (NAD 27) Crested Butte

API#

WCXY State Com 1H

Wellbore #1

Plan: Plan #1

## Sperry Drilling Services

### Combo Report

16 November, 2017

Well Coordinates: 32° 23' 05.79" N  
103° 25' 18.37" W

NAD 1927 (NADCON CONUS)  
New Mexico East 3001  
504,955.57 N  
781,398.03 E

Ground Level: 3,513.60 usft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

**North Reference:**

Unit System:

Centered on Well WCXY State Com 1H  
GE 3513.6 + 25' KB @ 3538.6usft (25' KB)  
N

**Grid**

API - US Survey Feet

Version: 5000.1 Build: 81D

Report Version: Midcon Combo v1.11

**HALLIBURTON**

## Plan Report for WCXY State Com 1H - Plan #1

| Measured Depth (usft) | Inclination (°) | Grid Azimuth (°) | TVD below System (usft) | Vertical Depth (usft) | Local Coordinates (usft) |        | Map Coordinates (usft) |            | Dogleg Rate (°/100usft) | Vertical Section (usft) | Comments                             |
|-----------------------|-----------------|------------------|-------------------------|-----------------------|--------------------------|--------|------------------------|------------|-------------------------|-------------------------|--------------------------------------|
| 0.0                   | 0.00            | 0.00             | -3,538.6                | 0.0                   | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     | Crested Butte WCXY State Com 1H PBHL |
| 100.0                 | 0.00            | 0.00             | -3,438.6                | 100.0                 | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 200.0                 | 0.00            | 0.00             | -3,338.6                | 200.0                 | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 300.0                 | 0.00            | 0.00             | -3,238.6                | 300.0                 | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 400.0                 | 0.00            | 0.00             | -3,138.6                | 400.0                 | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 500.0                 | 0.00            | 0.00             | -3,038.6                | 500.0                 | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 589.0                 | 0.00            | 0.00             | -2,949.6                | 589.0                 | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     | Rustler                              |
| 600.0                 | 0.00            | 0.00             | -2,938.6                | 600.0                 | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 700.0                 | 0.00            | 0.00             | -2,838.6                | 700.0                 | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 800.0                 | 0.00            | 0.00             | -2,738.6                | 800.0                 | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 900.0                 | 0.00            | 0.00             | -2,638.6                | 900.0                 | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 1,000.0               | 0.00            | 0.00             | -2,538.6                | 1,000.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 1,100.0               | 0.00            | 0.00             | -2,438.6                | 1,100.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 1,200.0               | 0.00            | 0.00             | -2,338.6                | 1,200.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 1,300.0               | 0.00            | 0.00             | -2,238.6                | 1,300.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 1,400.0               | 0.00            | 0.00             | -2,138.6                | 1,400.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 1,500.0               | 0.00            | 0.00             | -2,038.6                | 1,500.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 1,589.0               | 0.00            | 0.00             | -1,949.6                | 1,589.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     | Top of Salt                          |
| 1,600.0               | 0.00            | 0.00             | -1,938.6                | 1,600.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 1,700.0               | 0.00            | 0.00             | -1,838.6                | 1,700.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 1,800.0               | 0.00            | 0.00             | -1,738.6                | 1,800.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 1,900.0               | 0.00            | 0.00             | -1,638.6                | 1,900.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 2,000.0               | 0.00            | 0.00             | -1,538.6                | 2,000.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 2,100.0               | 0.00            | 0.00             | -1,438.6                | 2,100.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 2,200.0               | 0.00            | 0.00             | -1,338.6                | 2,200.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 2,300.0               | 0.00            | 0.00             | -1,238.6                | 2,300.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 2,400.0               | 0.00            | 0.00             | -1,138.6                | 2,400.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 2,500.0               | 0.00            | 0.00             | -1,038.6                | 2,500.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 2,600.0               | 0.00            | 0.00             | -938.6                  | 2,600.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 2,700.0               | 0.00            | 0.00             | -838.6                  | 2,700.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 2,800.0               | 0.00            | 0.00             | -738.6                  | 2,800.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 2,900.0               | 0.00            | 0.00             | -638.6                  | 2,900.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 3,000.0               | 0.00            | 0.00             | -538.6                  | 3,000.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 3,100.0               | 0.00            | 0.00             | -438.6                  | 3,100.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 3,200.0               | 0.00            | 0.00             | -338.6                  | 3,200.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 3,300.0               | 0.00            | 0.00             | -238.6                  | 3,300.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 3,400.0               | 0.00            | 0.00             | -138.6                  | 3,400.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 3,500.0               | 0.00            | 0.00             | -38.6                   | 3,500.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 3,589.0               | 0.00            | 0.00             | 50.4                    | 3,589.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     | Base of Salt                         |
| 3,600.0               | 0.00            | 0.00             | 61.4                    | 3,600.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |
| 3,700.0               | 0.00            | 0.00             | 161.4                   | 3,700.0               | 0.00 N                   | 0.00 E | 504,955.57             | 781,398.03 | 0.00                    | 0.0                     |                                      |

## Plan Report for WCXY State Com 1H - Plan #1

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Grid<br>Azimuth<br>(°) | TVD below<br>System<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates  |                   | Map Coordinates    |                   | Dogleg<br>Rate<br>(°/100usft) | Vertical<br>Section<br>(usft) | Comments |
|-----------------------------|--------------------|------------------------|-------------------------------|-----------------------------|--------------------|-------------------|--------------------|-------------------|-------------------------------|-------------------------------|----------|
|                             |                    |                        |                               |                             | Northing<br>(usft) | Easting<br>(usft) | Northing<br>(usft) | Easting<br>(usft) |                               |                               |          |
| 3,800.0                     | 0.00               | 0.00                   | 261.4                         | 3,800.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 3,900.0                     | 0.00               | 0.00                   | 361.4                         | 3,900.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 4,000.0                     | 0.00               | 0.00                   | 461.4                         | 4,000.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 4,100.0                     | 0.00               | 0.00                   | 561.4                         | 4,100.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 4,200.0                     | 0.00               | 0.00                   | 661.4                         | 4,200.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 4,300.0                     | 0.00               | 0.00                   | 761.4                         | 4,300.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 4,314.0                     | 0.00               | 0.00                   | 775.4                         | 4,314.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           | Delaware |
| 4,400.0                     | 0.00               | 0.00                   | 861.4                         | 4,400.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 4,500.0                     | 0.00               | 0.00                   | 961.4                         | 4,500.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 4,600.0                     | 0.00               | 0.00                   | 1,061.4                       | 4,600.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 4,700.0                     | 0.00               | 0.00                   | 1,161.4                       | 4,700.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 4,800.0                     | 0.00               | 0.00                   | 1,261.4                       | 4,800.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 4,900.0                     | 0.00               | 0.00                   | 1,361.4                       | 4,900.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 5,000.0                     | 0.00               | 0.00                   | 1,461.4                       | 5,000.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 5,100.0                     | 0.00               | 0.00                   | 1,561.4                       | 5,100.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 5,200.0                     | 0.00               | 0.00                   | 1,661.4                       | 5,200.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 5,300.0                     | 0.00               | 0.00                   | 1,761.4                       | 5,300.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 5,400.0                     | 0.00               | 0.00                   | 1,861.4                       | 5,400.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 5,500.0                     | 0.00               | 0.00                   | 1,961.4                       | 5,500.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 5,600.0                     | 0.00               | 0.00                   | 2,061.4                       | 5,600.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 5,700.0                     | 0.00               | 0.00                   | 2,161.4                       | 5,700.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 5,800.0                     | 0.00               | 0.00                   | 2,261.4                       | 5,800.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 5,900.0                     | 0.00               | 0.00                   | 2,361.4                       | 5,900.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 6,000.0                     | 0.00               | 0.00                   | 2,461.4                       | 6,000.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 6,100.0                     | 0.00               | 0.00                   | 2,561.4                       | 6,100.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 6,200.0                     | 0.00               | 0.00                   | 2,661.4                       | 6,200.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 6,300.0                     | 0.00               | 0.00                   | 2,761.4                       | 6,300.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 6,400.0                     | 0.00               | 0.00                   | 2,861.4                       | 6,400.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 6,500.0                     | 0.00               | 0.00                   | 2,961.4                       | 6,500.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 6,600.0                     | 0.00               | 0.00                   | 3,061.4                       | 6,600.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 6,700.0                     | 0.00               | 0.00                   | 3,161.4                       | 6,700.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 6,800.0                     | 0.00               | 0.00                   | 3,261.4                       | 6,800.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 6,900.0                     | 0.00               | 0.00                   | 3,361.4                       | 6,900.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 7,000.0                     | 0.00               | 0.00                   | 3,461.4                       | 7,000.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 7,100.0                     | 0.00               | 0.00                   | 3,561.4                       | 7,100.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 7,200.0                     | 0.00               | 0.00                   | 3,661.4                       | 7,200.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 7,300.0                     | 0.00               | 0.00                   | 3,761.4                       | 7,300.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 7,400.0                     | 0.00               | 0.00                   | 3,861.4                       | 7,400.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 7,500.0                     | 0.00               | 0.00                   | 3,961.4                       | 7,500.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 7,600.0                     | 0.00               | 0.00                   | 4,061.4                       | 7,600.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |
| 7,700.0                     | 0.00               | 0.00                   | 4,161.4                       | 7,700.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |          |

## Plan Report for WCXY State Com 1H - Plan #1

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Grid<br>Azimuth<br>(°) | TVD below<br>System<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates  |                   | Map Coordinates    |                   | Dogleg<br>Rate<br>(°/100usft) | Vertical<br>Section<br>(usft) | Comments        |
|-----------------------------|--------------------|------------------------|-------------------------------|-----------------------------|--------------------|-------------------|--------------------|-------------------|-------------------------------|-------------------------------|-----------------|
|                             |                    |                        |                               |                             | Northing<br>(usft) | Easting<br>(usft) | Northing<br>(usft) | Easting<br>(usft) |                               |                               |                 |
| 7,800.0                     | 0.00               | 0.00                   | 4,261.4                       | 7,800.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 7,900.0                     | 0.00               | 0.00                   | 4,361.4                       | 7,900.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 8,000.0                     | 0.00               | 0.00                   | 4,461.4                       | 8,000.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 8,100.0                     | 0.00               | 0.00                   | 4,561.4                       | 8,100.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 8,200.0                     | 0.00               | 0.00                   | 4,661.4                       | 8,200.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 8,300.0                     | 0.00               | 0.00                   | 4,761.4                       | 8,300.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 8,359.0                     | 0.00               | 0.00                   | 4,820.4                       | 8,359.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           | Bone Spring     |
| 8,400.0                     | 0.00               | 0.00                   | 4,861.4                       | 8,400.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 8,459.0                     | 0.00               | 0.00                   | 4,920.4                       | 8,459.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           | Avalon          |
| 8,500.0                     | 0.00               | 0.00                   | 4,961.4                       | 8,500.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 8,600.0                     | 0.00               | 0.00                   | 5,061.4                       | 8,600.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 8,700.0                     | 0.00               | 0.00                   | 5,161.4                       | 8,700.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 8,800.0                     | 0.00               | 0.00                   | 5,261.4                       | 8,800.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 8,900.0                     | 0.00               | 0.00                   | 5,361.4                       | 8,900.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 9,000.0                     | 0.00               | 0.00                   | 5,461.4                       | 9,000.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 9,100.0                     | 0.00               | 0.00                   | 5,561.4                       | 9,100.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 9,109.0                     | 0.00               | 0.00                   | 5,570.4                       | 9,109.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           | 1st Bone Spring |
| 9,200.0                     | 0.00               | 0.00                   | 5,661.4                       | 9,200.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 9,300.0                     | 0.00               | 0.00                   | 5,761.4                       | 9,300.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 9,400.0                     | 0.00               | 0.00                   | 5,861.4                       | 9,400.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 9,500.0                     | 0.00               | 0.00                   | 5,961.4                       | 9,500.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 9,569.0                     | 0.00               | 0.00                   | 6,030.4                       | 9,569.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           | 2nd Bone Spring |
| 9,600.0                     | 0.00               | 0.00                   | 6,061.4                       | 9,600.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 9,700.0                     | 0.00               | 0.00                   | 6,161.4                       | 9,700.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 9,800.0                     | 0.00               | 0.00                   | 6,261.4                       | 9,800.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 9,900.0                     | 0.00               | 0.00                   | 6,361.4                       | 9,900.0                     | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 10,000.0                    | 0.00               | 0.00                   | 6,461.4                       | 10,000.0                    | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 10,100.0                    | 0.00               | 0.00                   | 6,561.4                       | 10,100.0                    | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 10,200.0                    | 0.00               | 0.00                   | 6,661.4                       | 10,200.0                    | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 10,300.0                    | 0.00               | 0.00                   | 6,761.4                       | 10,300.0                    | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 10,400.0                    | 0.00               | 0.00                   | 6,861.4                       | 10,400.0                    | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 10,500.0                    | 0.00               | 0.00                   | 6,961.4                       | 10,500.0                    | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 10,600.0                    | 0.00               | 0.00                   | 7,061.4                       | 10,600.0                    | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 10,700.0                    | 0.00               | 0.00                   | 7,161.4                       | 10,700.0                    | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 10,776.5                    | 0.00               | 0.00                   | 7,237.9                       | 10,776.5                    | 0.00 N             | 0.00 E            | 504,955.57         | 781,398.03        | 0.00                          | 0.0                           |                 |
| 10,800.0                    | 2.82               | 2.58                   | 7,261.4                       | 10,800.0                    | 0.58 N             | 0.03 E            | 504,956.15         | 781,398.06        | 12.00                         | 0.6                           |                 |
| 10,900.0                    | 14.82              | 2.58                   | 7,360.0                       | 10,898.6                    | 15.86 N            | 0.71 E            | 504,971.43         | 781,398.74        | 12.00                         | 15.9                          |                 |
| 10,980.1                    | 24.43              | 2.58                   | 7,435.4                       | 10,974.0                    | 42.70 N            | 1.92 E            | 504,998.27         | 781,399.95        | 12.00                         | 42.7                          | 3rd Bone Spring |
| 11,000.0                    | 26.82              | 2.58                   | 7,453.3                       | 10,991.9                    | 51.29 N            | 2.31 E            | 505,006.86         | 781,400.34        | 12.00                         | 51.3                          |                 |
| 11,100.0                    | 38.82              | 2.58                   | 7,537.2                       | 11,075.8                    | 105.33 N           | 4.74 E            | 505,060.90         | 781,402.77        | 12.00                         | 105.4                         |                 |
| 11,200.0                    | 50.82              | 2.58                   | 7,608.0                       | 11,146.6                    | 175.62 N           | 7.91 E            | 505,131.19         | 781,405.94        | 12.00                         | 175.8                         |                 |

## Plan Report for WCXY State Com 1H - Plan #1

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Grid<br>Azimuth<br>(°) | TVD below<br>System<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates  |                   | Map Coordinates    |                   | Dogleg<br>Rate<br>(°/100usft) | Vertical<br>Section<br>(usft) | Comments    |
|-----------------------------|--------------------|------------------------|-------------------------------|-----------------------------|--------------------|-------------------|--------------------|-------------------|-------------------------------|-------------------------------|-------------|
|                             |                    |                        |                               |                             | Northing<br>(usft) | Easting<br>(usft) | Northing<br>(usft) | Easting<br>(usft) |                               |                               |             |
| 11,300.0                    | 62.82              | 2.58                   | 7,662.7                       | 11,201.3                    | 259.07 N           | 11.67 E           | 505,214.64         | 781,409.70        | 12.00                         | 259.3                         |             |
| 11,387.9                    | 73.36              | 2.58                   | 7,695.4                       | 11,234.0                    | 340.38 N           | 15.33 E           | 505,295.95         | 781,413.36        | 12.00                         | 340.7                         | Wolfcamp XY |
| 11,400.0                    | 74.82              | 2.58                   | 7,698.7                       | 11,237.3                    | 352.05 N           | 15.85 E           | 505,307.62         | 781,413.88        | 12.00                         | 352.4                         |             |
| 11,500.0                    | 86.82              | 2.58                   | 7,714.7                       | 11,253.3                    | 450.49 N           | 20.29 E           | 505,406.06         | 781,418.32        | 12.00                         | 450.9                         |             |
| 11,526.5                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 476.98 N           | 21.48 E           | 505,432.55         | 781,419.51        | 12.00                         | 477.5                         |             |
| 11,600.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 550.37 N           | 24.79 E           | 505,505.94         | 781,422.82        | 0.00                          | 550.9                         |             |
| 11,700.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 650.27 N           | 29.29 E           | 505,605.84         | 781,427.32        | 0.00                          | 650.9                         |             |
| 11,800.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 750.17 N           | 33.78 E           | 505,705.74         | 781,431.81        | 0.00                          | 750.9                         |             |
| 11,900.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 850.07 N           | 38.28 E           | 505,805.64         | 781,436.31        | 0.00                          | 850.9                         |             |
| 12,000.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 949.97 N           | 42.78 E           | 505,905.54         | 781,440.81        | 0.00                          | 950.9                         |             |
| 12,100.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 1,049.87 N         | 47.28 E           | 506,005.44         | 781,445.31        | 0.00                          | 1,050.9                       |             |
| 12,200.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 1,149.76 N         | 51.78 E           | 506,105.33         | 781,449.81        | 0.00                          | 1,150.9                       |             |
| 12,300.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 1,249.66 N         | 56.28 E           | 506,205.23         | 781,454.31        | 0.00                          | 1,250.9                       |             |
| 12,400.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 1,349.56 N         | 60.78 E           | 506,305.13         | 781,458.81        | 0.00                          | 1,350.9                       |             |
| 12,500.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 1,449.46 N         | 65.28 E           | 506,405.03         | 781,463.31        | 0.00                          | 1,450.9                       |             |
| 12,600.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 1,549.36 N         | 69.78 E           | 506,504.93         | 781,467.81        | 0.00                          | 1,550.9                       |             |
| 12,700.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 1,649.26 N         | 74.28 E           | 506,604.83         | 781,472.31        | 0.00                          | 1,650.9                       |             |
| 12,800.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 1,749.16 N         | 78.77 E           | 506,704.73         | 781,476.80        | 0.00                          | 1,750.9                       |             |
| 12,900.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 1,849.06 N         | 83.27 E           | 506,804.63         | 781,481.30        | 0.00                          | 1,850.9                       |             |
| 13,000.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 1,948.95 N         | 87.77 E           | 506,904.52         | 781,485.80        | 0.00                          | 1,950.9                       |             |
| 13,100.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 2,048.85 N         | 92.27 E           | 507,004.42         | 781,490.30        | 0.00                          | 2,050.9                       |             |
| 13,200.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 2,148.75 N         | 96.77 E           | 507,104.32         | 781,494.80        | 0.00                          | 2,150.9                       |             |
| 13,300.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 2,248.65 N         | 101.27 E          | 507,204.22         | 781,499.30        | 0.00                          | 2,250.9                       |             |
| 13,400.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 2,348.55 N         | 105.77 E          | 507,304.12         | 781,503.80        | 0.00                          | 2,350.9                       |             |
| 13,500.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 2,448.45 N         | 110.27 E          | 507,404.02         | 781,508.30        | 0.00                          | 2,450.9                       |             |
| 13,600.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 2,548.35 N         | 114.77 E          | 507,503.92         | 781,512.80        | 0.00                          | 2,550.9                       |             |
| 13,700.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 2,648.25 N         | 119.27 E          | 507,603.82         | 781,517.30        | 0.00                          | 2,650.9                       |             |
| 13,800.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 2,748.14 N         | 123.76 E          | 507,703.71         | 781,521.79        | 0.00                          | 2,750.9                       |             |
| 13,900.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 2,848.04 N         | 128.26 E          | 507,803.61         | 781,526.29        | 0.00                          | 2,850.9                       |             |
| 14,000.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 2,947.94 N         | 132.76 E          | 507,903.51         | 781,530.79        | 0.00                          | 2,950.9                       |             |
| 14,100.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 3,047.84 N         | 137.26 E          | 508,003.41         | 781,535.29        | 0.00                          | 3,050.9                       |             |
| 14,200.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 3,147.74 N         | 141.76 E          | 508,103.31         | 781,539.79        | 0.00                          | 3,150.9                       |             |
| 14,300.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 3,247.64 N         | 146.26 E          | 508,203.21         | 781,544.29        | 0.00                          | 3,250.9                       |             |
| 14,400.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 3,347.54 N         | 150.76 E          | 508,303.11         | 781,548.79        | 0.00                          | 3,350.9                       |             |
| 14,500.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 3,447.44 N         | 155.26 E          | 508,403.01         | 781,553.29        | 0.00                          | 3,450.9                       |             |
| 14,600.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 3,547.33 N         | 159.76 E          | 508,502.90         | 781,557.79        | 0.00                          | 3,550.9                       |             |
| 14,700.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 3,647.23 N         | 164.26 E          | 508,602.80         | 781,562.29        | 0.00                          | 3,650.9                       |             |
| 14,800.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 3,747.13 N         | 168.76 E          | 508,702.70         | 781,566.79        | 0.00                          | 3,750.9                       |             |
| 14,900.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 3,847.03 N         | 173.25 E          | 508,802.60         | 781,571.28        | 0.00                          | 3,850.9                       |             |
| 15,000.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 3,946.93 N         | 177.75 E          | 508,902.50         | 781,575.78        | 0.00                          | 3,950.9                       |             |
| 15,100.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 4,046.83 N         | 182.25 E          | 509,002.40         | 781,580.28        | 0.00                          | 4,050.9                       |             |

## Plan Report for WCXY State Com 1H - Plan #1

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Grid<br>Azimuth<br>(°) | TVD below<br>System<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates<br>Northing<br>(usft) | Easting<br>(usft) | Map Coordinates<br>Northing<br>(usft) | Easting<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Vertical<br>Section<br>(usft) | Comments |
|-----------------------------|--------------------|------------------------|-------------------------------|-----------------------------|-----------------------------------------|-------------------|---------------------------------------|-------------------|-------------------------------|-------------------------------|----------|
| 15,200.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 4,146.73 N                              | 186.75 E          | 509,102.30                            | 781,584.78        | 0.00                          | 4,150.9                       |          |
| 15,300.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 4,246.63 N                              | 191.25 E          | 509,202.20                            | 781,589.28        | 0.00                          | 4,250.9                       |          |
| 15,400.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 4,346.52 N                              | 195.75 E          | 509,302.09                            | 781,593.78        | 0.00                          | 4,350.9                       |          |
| 15,500.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 4,446.42 N                              | 200.25 E          | 509,401.99                            | 781,598.28        | 0.00                          | 4,450.9                       |          |
| 15,600.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 4,546.32 N                              | 204.75 E          | 509,501.89                            | 781,602.78        | 0.00                          | 4,550.9                       |          |
| 15,700.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 4,646.22 N                              | 209.25 E          | 509,601.79                            | 781,607.28        | 0.00                          | 4,650.9                       |          |
| 15,800.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 4,746.12 N                              | 213.75 E          | 509,701.69                            | 781,611.78        | 0.00                          | 4,750.9                       |          |
| 15,900.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 4,846.02 N                              | 218.24 E          | 509,801.59                            | 781,616.27        | 0.00                          | 4,850.9                       |          |
| 16,000.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 4,945.92 N                              | 222.74 E          | 509,901.49                            | 781,620.77        | 0.00                          | 4,950.9                       |          |
| 16,100.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 5,045.82 N                              | 227.24 E          | 510,001.39                            | 781,625.27        | 0.00                          | 5,050.9                       |          |
| 16,200.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 5,145.71 N                              | 231.74 E          | 510,101.28                            | 781,629.77        | 0.00                          | 5,150.9                       |          |
| 16,300.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 5,245.61 N                              | 236.24 E          | 510,201.18                            | 781,634.27        | 0.00                          | 5,250.9                       |          |
| 16,400.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 5,345.51 N                              | 240.74 E          | 510,301.08                            | 781,638.77        | 0.00                          | 5,350.9                       |          |
| 16,500.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 5,445.41 N                              | 245.24 E          | 510,400.98                            | 781,643.27        | 0.00                          | 5,450.9                       |          |
| 16,600.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 5,545.31 N                              | 249.74 E          | 510,500.88                            | 781,647.77        | 0.00                          | 5,550.9                       |          |
| 16,700.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 5,645.21 N                              | 254.24 E          | 510,600.78                            | 781,652.27        | 0.00                          | 5,650.9                       |          |
| 16,800.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 5,745.11 N                              | 258.74 E          | 510,700.68                            | 781,656.77        | 0.00                          | 5,750.9                       |          |
| 16,900.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 5,845.01 N                              | 263.23 E          | 510,800.58                            | 781,661.26        | 0.00                          | 5,850.9                       |          |
| 17,000.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 5,944.90 N                              | 267.73 E          | 510,900.47                            | 781,665.76        | 0.00                          | 5,950.9                       |          |
| 17,100.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 6,044.80 N                              | 272.23 E          | 511,000.37                            | 781,670.26        | 0.00                          | 6,050.9                       |          |
| 17,200.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 6,144.70 N                              | 276.73 E          | 511,100.27                            | 781,674.76        | 0.00                          | 6,150.9                       |          |
| 17,300.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 6,244.60 N                              | 281.23 E          | 511,200.17                            | 781,679.26        | 0.00                          | 6,250.9                       |          |
| 17,400.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 6,344.50 N                              | 285.73 E          | 511,300.07                            | 781,683.76        | 0.00                          | 6,350.9                       |          |
| 17,500.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 6,444.40 N                              | 290.23 E          | 511,399.97                            | 781,688.26        | 0.00                          | 6,450.9                       |          |
| 17,600.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 6,544.30 N                              | 294.73 E          | 511,499.87                            | 781,692.76        | 0.00                          | 6,550.9                       |          |
| 17,700.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 6,644.20 N                              | 299.23 E          | 511,599.77                            | 781,697.26        | 0.00                          | 6,650.9                       |          |
| 17,800.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 6,744.09 N                              | 303.73 E          | 511,699.66                            | 781,701.76        | 0.00                          | 6,750.9                       |          |
| 17,900.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 6,843.99 N                              | 308.23 E          | 511,799.56                            | 781,706.26        | 0.00                          | 6,850.9                       |          |
| 18,000.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 6,943.89 N                              | 312.72 E          | 511,899.46                            | 781,710.75        | 0.00                          | 6,950.9                       |          |
| 18,100.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 7,043.79 N                              | 317.22 E          | 511,999.36                            | 781,715.25        | 0.00                          | 7,050.9                       |          |
| 18,200.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 7,143.69 N                              | 321.72 E          | 512,099.26                            | 781,719.75        | 0.00                          | 7,150.9                       |          |
| 18,300.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 7,243.59 N                              | 326.22 E          | 512,199.16                            | 781,724.25        | 0.00                          | 7,250.9                       |          |
| 18,400.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 7,343.49 N                              | 330.72 E          | 512,299.06                            | 781,728.75        | 0.00                          | 7,350.9                       |          |
| 18,500.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 7,443.39 N                              | 335.22 E          | 512,398.96                            | 781,733.25        | 0.00                          | 7,450.9                       |          |
| 18,600.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 7,543.28 N                              | 339.72 E          | 512,498.85                            | 781,737.75        | 0.00                          | 7,550.9                       |          |
| 18,700.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 7,643.18 N                              | 344.22 E          | 512,598.75                            | 781,742.25        | 0.00                          | 7,650.9                       |          |
| 18,800.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 7,743.08 N                              | 348.72 E          | 512,698.65                            | 781,746.75        | 0.00                          | 7,750.9                       |          |
| 18,900.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 7,842.98 N                              | 353.22 E          | 512,798.55                            | 781,751.25        | 0.00                          | 7,850.9                       |          |
| 19,000.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 7,942.88 N                              | 357.71 E          | 512,898.45                            | 781,755.74        | 0.00                          | 7,950.9                       |          |
| 19,100.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 8,042.78 N                              | 362.21 E          | 512,998.35                            | 781,760.24        | 0.00                          | 8,050.9                       |          |
| 19,200.0                    | 90.00              | 2.58                   | 7,715.4                       | 11,254.0                    | 8,142.68 N                              | 366.71 E          | 513,098.25                            | 781,764.74        | 0.00                          | 8,150.9                       |          |

## Plan Report for WCXY State Com 1H - Plan #1

| Measured Depth (usft) | Inclination (°) | Grid Azimuth (°) | TVD below System (usft) | Vertical Depth (usft) | Local Coordinates Northing (usft) | Easting (usft) | Map Coordinates Northing (usft) | Easting (usft) | Dogleg Rate (°/100usft) | Vertical Section (usft) | Comments |
|-----------------------|-----------------|------------------|-------------------------|-----------------------|-----------------------------------|----------------|---------------------------------|----------------|-------------------------|-------------------------|----------|
| 19,300.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 8,242.57 N                        | 371.21 E       | 513,198.14                      | 781,769.24     | 0.00                    | 8,250.9                 |          |
| 19,400.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 8,342.47 N                        | 375.71 E       | 513,298.04                      | 781,773.74     | 0.00                    | 8,350.9                 |          |
| 19,500.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 8,442.37 N                        | 380.21 E       | 513,397.94                      | 781,778.24     | 0.00                    | 8,450.9                 |          |
| 19,600.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 8,542.27 N                        | 384.71 E       | 513,497.84                      | 781,782.74     | 0.00                    | 8,550.9                 |          |
| 19,700.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 8,642.17 N                        | 389.21 E       | 513,597.74                      | 781,787.24     | 0.00                    | 8,650.9                 |          |
| 19,800.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 8,742.07 N                        | 393.71 E       | 513,697.64                      | 781,791.74     | 0.00                    | 8,750.9                 |          |
| 19,900.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 8,841.97 N                        | 398.21 E       | 513,797.54                      | 781,796.24     | 0.00                    | 8,850.9                 |          |
| 20,000.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 8,941.87 N                        | 402.70 E       | 513,897.44                      | 781,800.73     | 0.00                    | 8,950.9                 |          |
| 20,100.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,041.76 N                        | 407.20 E       | 513,997.33                      | 781,805.23     | 0.00                    | 9,050.9                 |          |
| 20,200.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,141.66 N                        | 411.70 E       | 514,097.23                      | 781,809.73     | 0.00                    | 9,150.9                 |          |
| 20,300.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,241.56 N                        | 416.20 E       | 514,197.13                      | 781,814.23     | 0.00                    | 9,250.9                 |          |
| 20,400.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,341.46 N                        | 420.70 E       | 514,297.03                      | 781,818.73     | 0.00                    | 9,350.9                 |          |
| 20,500.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,441.36 N                        | 425.20 E       | 514,396.93                      | 781,823.23     | 0.00                    | 9,450.9                 |          |
| 20,600.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,541.26 N                        | 429.70 E       | 514,496.83                      | 781,827.73     | 0.00                    | 9,550.9                 |          |
| 20,700.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,641.16 N                        | 434.20 E       | 514,596.73                      | 781,832.23     | 0.00                    | 9,650.9                 |          |
| 20,800.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,741.06 N                        | 438.70 E       | 514,696.63                      | 781,836.73     | 0.00                    | 9,750.9                 |          |
| 20,900.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,840.95 N                        | 443.20 E       | 514,796.52                      | 781,841.23     | 0.00                    | 9,850.9                 |          |
| 21,000.0              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,940.85 N                        | 447.69 E       | 514,896.42                      | 781,845.72     | 0.00                    | 9,950.9                 |          |
| 21,019.7              | 90.00           | 2.58             | 7,715.4                 | 11,254.0              | 9,960.51 N                        | 448.58 E       | 514,916.08                      | 781,846.61     | 0.00                    | 9,970.6                 |          |

Vertical Section Information

| Angle Type | Target               | Azimuth (°) | Origin Type | Origin +N/-S (usft) | Origin +E/-W (usft) | Start TVD (usft) |
|------------|----------------------|-------------|-------------|---------------------|---------------------|------------------|
| TD         | No Target (Freehand) | 2.58        | Slot        | 0.0                 | 0.0                 | 0.0              |

Survey tool program

| From (usft) | To (usft) | Survey/Plan | Survey Tool |
|-------------|-----------|-------------|-------------|
| 0.0         | 21,019.7  | Plan #1     | MWD         |

Casing Details

| Measured Depth (usft) | Vertical Depth (usft) | Name    | Casing Diameter (") | Hole Diameter (") |
|-----------------------|-----------------------|---------|---------------------|-------------------|
| 1,000.0               | 1,000.0               | 13 3/8" | 13-3/8              | 17-1/2            |

**Plan Report for WCXY State Com 1H - Plan #1**

**Formation Details**

| Measured Depth (usft) | Vertical Depth (usft) | TVDSS (usft) | Name            | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|--------------|-----------------|-----------|---------|-------------------|
| 589.0                 | 589.0                 | -2,949.60    | Rustler         |           | 0.00    | 2.58              |
| 1,589.0               | 1,589.0               | -1,949.60    | Top of Salt     |           | 0.00    | 2.58              |
| 3,589.0               | 3,589.0               | 50.40        | Base of Salt    |           | 0.00    | 2.58              |
| 4,314.0               | 4,314.0               | 775.40       | Delaware        |           | 0.00    | 2.58              |
| 8,359.0               | 8,359.0               | 4,820.40     | Bone Spring     |           | 0.00    | 2.58              |
| 8,459.0               | 8,459.0               | 4,920.40     | Avalon          |           | 0.00    | 2.58              |
| 9,109.0               | 9,109.0               | 5,570.40     | 1st Bone Spring |           | 0.00    | 2.58              |
| 9,569.0               | 9,569.0               | 6,030.40     | 2nd Bone Spring |           | 0.00    | 2.58              |
| 10,980.1              | 10,974.0              | 7,435.40     | 3rd Bone Spring |           | 0.00    | 2.58              |
| 11,387.9              | 11,234.0              | 7,695.40     | Wolfcamp XY     |           | 0.00    | 2.58              |

**Design Targets**

| Target Name                                                                     | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
|---------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|
| - hit/miss target                                                               |               |              |            |              |              |                 |                |                  |                   |
| - Shape                                                                         |               |              |            |              |              |                 |                |                  |                   |
| Crested Butte WCXY State Com 1H PBHL ()                                         | 0.00          | 0.00         | 0.0        | 9,960.5      | 448.6        | 514,916.08      | 781,846.61     | 32° 24' 44.309 N | 103° 25' 12.149 W |
| - plan misses target center by 9970.6usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E) |               |              |            |              |              |                 |                |                  |                   |
| - Point                                                                         |               |              |            |              |              |                 |                |                  |                   |

**Directional Difficulty Index**

|                                     |                |                               |                                  |
|-------------------------------------|----------------|-------------------------------|----------------------------------|
| Average Dogleg over Survey:         | 0.43 °/100usft | Maximum Dogleg over Survey:   | 12.00 °/100usft at 11,526.5 usft |
| Net Tortousity applicable to Plans: | 0.43 °/100usft | Directional Difficulty Index: | 6.552                            |

**Audit Info**

## North Reference Sheet for Crested Butte - WCXY State Com 1H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GE 3513.6 + 25' KB @ 3538.6usft (25' KB). Northing and Easting are relative to WCXY State Com 1H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is 104° 20' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99999978

Grid Coordinates of Well: 504,955.57 usft N, 781,398.03 usft E

Geographical Coordinates of Well: 32° 23' 05.79" N, 103° 25' 18.37" W

Grid Convergence at Surface is: 0.49°

Based upon Minimum Curvature type calculations, at a Measured Depth of 21,019.68usft  
the Bottom Hole Displacement is 9,970.61usft in the Direction of 2.58° (Grid).

Magnetic Convergence at surface is: -6.42° (15 November 2017, , BGGM2017)

