



COG Production L L C  
Project: Lea County, NM (NAD27 NME)  
Site: Sec. 17, T 26 S. , R 33 E  
Well: Vast State 4H  
Wellbore: Wellbore #1  
Plan: Plan #2 (Vast State 4H/Wellbore #1)

Scandrill Freedom

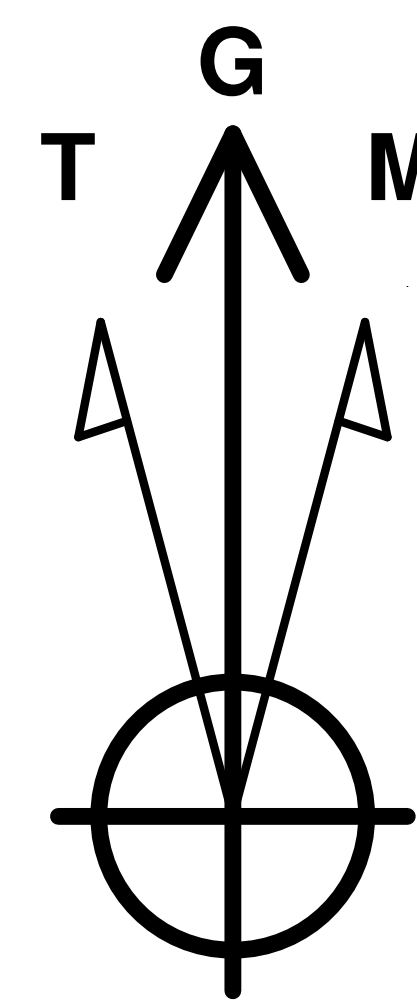
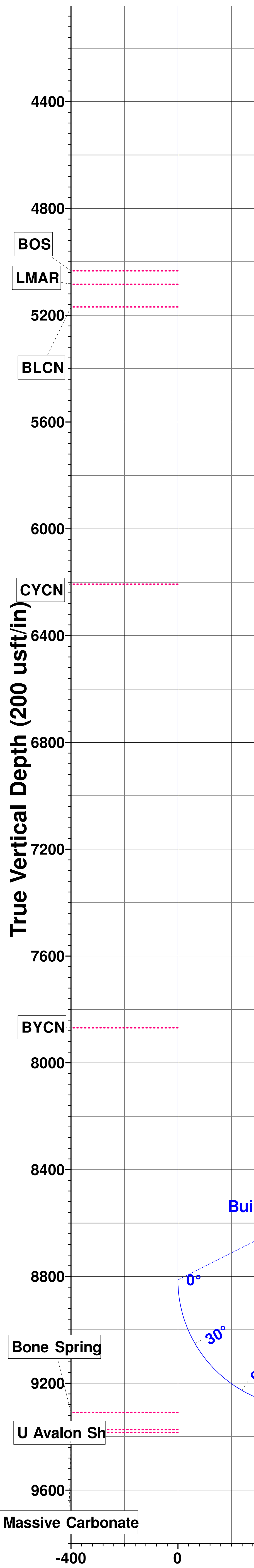
WELL DETAILS: Vast State 4H

Ground Elevation:: 3263.0  
RKB Elevation: KB=26' @ 3289.0usft (Scandrill Freedom)  
Rig Name: Scandrill Freedom

Northing 377871.90 Easting 730151.50 Latitude 32° 2' 12.153 N Longitude 103° 35' 26.194 W

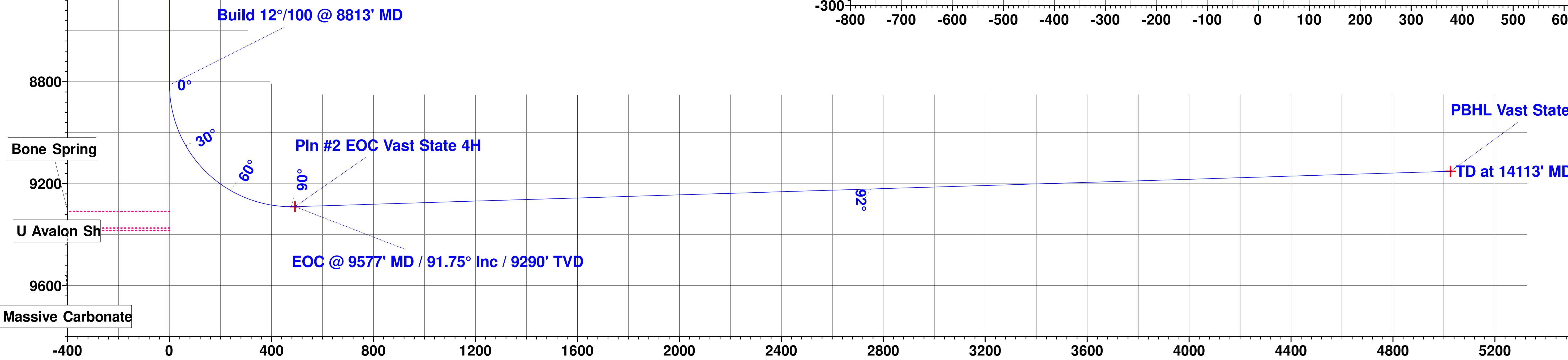
Section Details

| Sec | MD      | Inc   | Azi    | TVD    | +N/-S  | +E/-W | Dleg  | TFace  | VSect  |                        |
|-----|---------|-------|--------|--------|--------|-------|-------|--------|--------|------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0    | 0.0    | 0.0   | 0.00  | 0.00   | 0.0    |                        |
| 2   | 8812.8  | 0.00  | 0.00   | 8812.8 | 0.0    | 0.0   | 0.00  | 0.00   | 0.0    |                        |
| 3   | 9577.4  | 91.75 | 359.55 | 9290.0 | 492.1  | -3.8  | 12.00 | 359.55 | 492.1  |                        |
| 4   | 14113.1 | 91.75 | 359.55 | 9151.2 | 5025.5 | -39.3 | 0.00  | 0.00   | 5025.7 | PBHL Vast State 4H Rev |

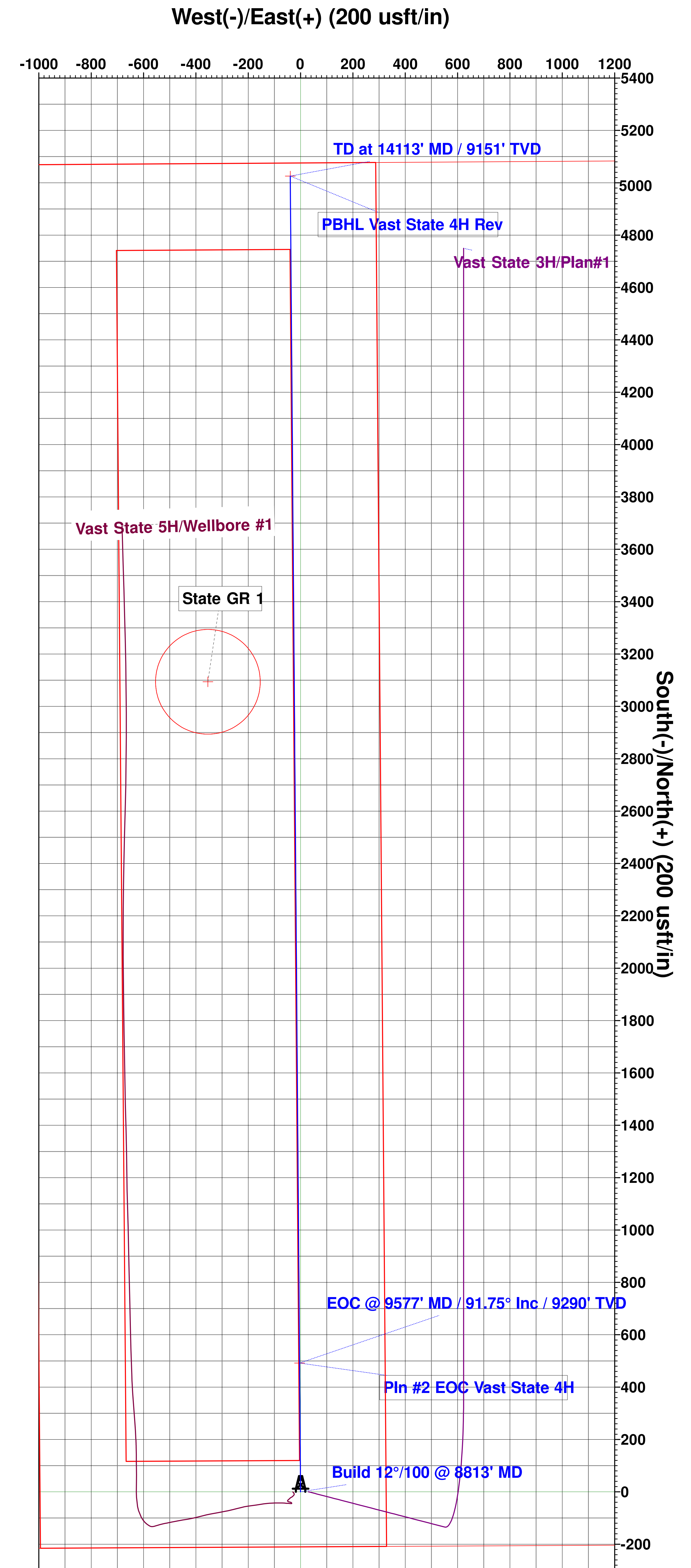
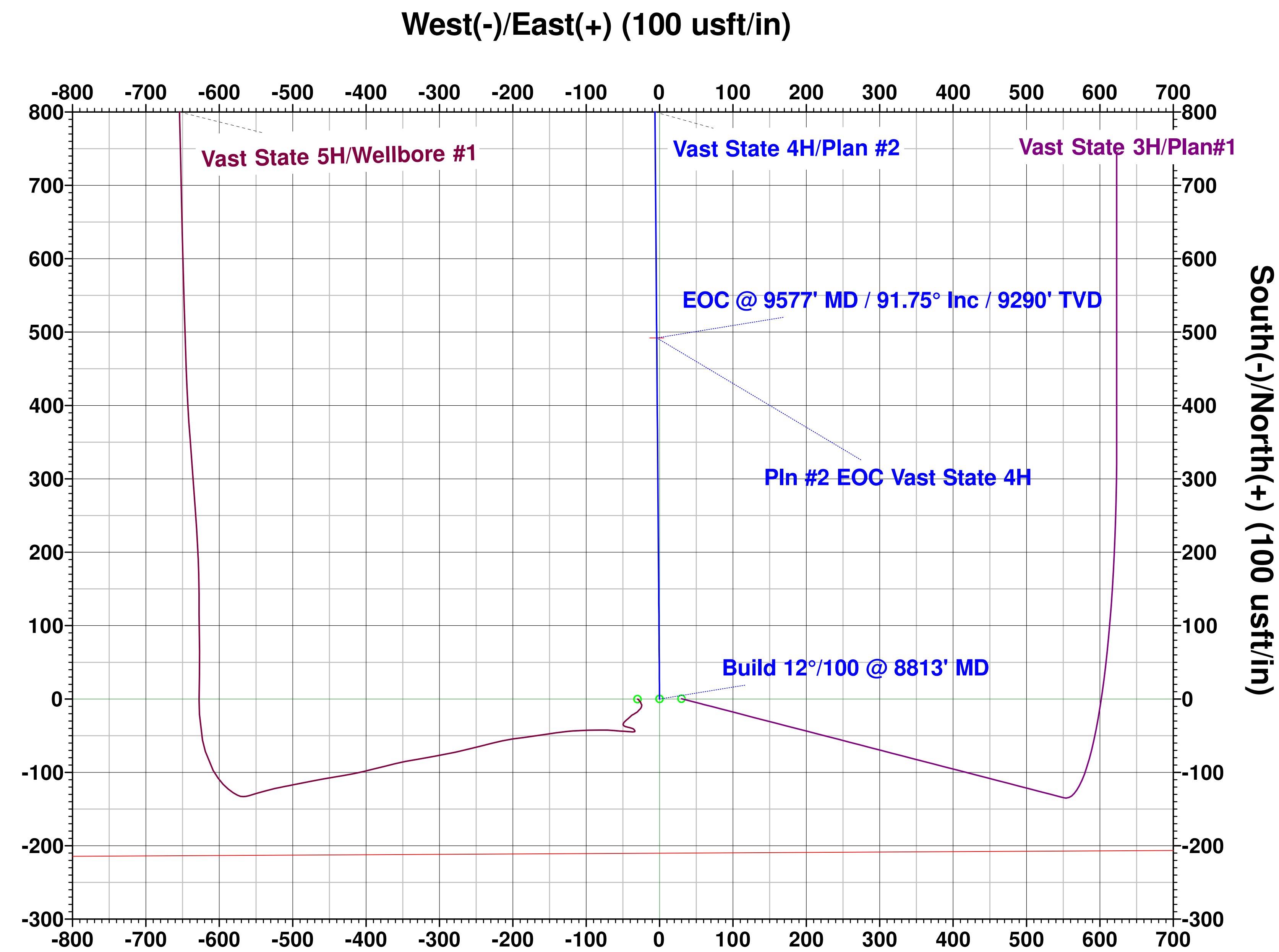


Azimuths to Grid North  
True North: -0.39°  
Magnetic North: 6.69°

Magnetic Field  
Strength: 47956.0snT  
Dip Angle: 59.90°  
Date: 3/10/2016  
Model: IGRF2015



Vertical Section at 359.55° (200 usft/in)



Integrity Directional Services

PROJECT DETAILS: Lea County, NM (NAD27 NME)  
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level  
Local North: Grid

# **COG Production L L C**

**Lea County, NM (NAD27 NME)**

**Sec. 17, T 26 S. , R 33 E**

**Vast State 4H**

**Wellbore #1**

**Plan: Plan #2**

## **Standard Planning Report**

**25 April, 2016**

# Integrity Directional Services, LLC

## Planning Report

|                  |                            |                                     |                                         |
|------------------|----------------------------|-------------------------------------|-----------------------------------------|
| <b>Database:</b> | EDM 5000.1 Multi User Db   | <b>Local Co-ordinate Reference:</b> | Well Vast State 4H                      |
| <b>Company:</b>  | COG Production L L C       | <b>TVD Reference:</b>               | KB=26' @ 3289.0usft (Scandrill Freedom) |
| <b>Project:</b>  | Lea County, NM (NAD27 NME) | <b>MD Reference:</b>                | KB=26' @ 3289.0usft (Scandrill Freedom) |
| <b>Site:</b>     | Sec. 17, T 26 S. , R 33 E  | <b>North Reference:</b>             | Grid                                    |
| <b>Well:</b>     | Vast State 4H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Wellbore:</b> | Wellbore #1                |                                     |                                         |
| <b>Design:</b>   | Plan #2                    |                                     |                                         |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, NM (NAD27 NME)           |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |                           |                          |                   |
|------------------------------|---------------------------|--------------------------|-------------------|
| <b>Site</b>                  | Sec. 17, T 26 S. , R 33 E |                          |                   |
| <b>Site Position:</b>        |                           | <b>Northing:</b>         | 377,872.30 usft   |
| <b>From:</b>                 | Map                       | <b>Easting:</b>          | 730,181.40 usft   |
| <b>Position Uncertainty:</b> | 5.0 usft                  | <b>Slot Radius:</b>      | 13-3/16 "         |
|                              |                           | <b>Latitude:</b>         | 32° 2' 12.155 N   |
|                              |                           | <b>Longitude:</b>        | 103° 35' 25.847 W |
|                              |                           | <b>Grid Convergence:</b> | 0.39 °            |

|                             |               |                            |                                  |
|-----------------------------|---------------|----------------------------|----------------------------------|
| <b>Well</b>                 | Vast State 4H |                            |                                  |
| <b>Well Position</b>        | <b>+N/-S</b>  | -0.4 usft                  | <b>Northing:</b> 377,871.90 usft |
|                             | <b>+E/-W</b>  | -29.9 usft                 | <b>Easting:</b> 730,151.50 usft  |
| <b>Position Uncertainty</b> | 5.0 usft      | <b>Wellhead Elevation:</b> | 0.0 usft                         |
|                             |               | <b>Latitude:</b>           | 32° 2' 12.153 N                  |
|                             |               | <b>Longitude:</b>          | 103° 35' 26.194 W                |
|                             |               | <b>Ground Level:</b>       | 3,263.0 usft                     |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 3/10/2016          | 7.09                   | 59.90                | 47,956                     |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #2                        |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.0                            | 0.0                 | 0.0                  | 359.55               |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |                    |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|--------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target             |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                    |
| 8,812.8               | 0.00            | 0.00        | 8,812.8               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                    |
| 9,577.4               | 91.75           | 359.55      | 9,290.0               | 492.1        | -3.8         | 12.00                   | 12.00                  | -0.06                 | 359.55  |                    |
| 14,113.1              | 91.75           | 359.55      | 9,151.2               | 5,025.5      | -39.3        | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL Vast State 4H |

# Integrity Directional Services, LLC

## Planning Report

|                  |                            |                                     |                                         |
|------------------|----------------------------|-------------------------------------|-----------------------------------------|
| <b>Database:</b> | EDM 5000.1 Multi User Db   | <b>Local Co-ordinate Reference:</b> | Well Vast State 4H                      |
| <b>Company:</b>  | COG Production L L C       | <b>TVD Reference:</b>               | KB=26' @ 3289.0usft (Scandriil Freedom) |
| <b>Project:</b>  | Lea County, NM (NAD27 NME) | <b>MD Reference:</b>                | KB=26' @ 3289.0usft (Scandriil Freedom) |
| <b>Site:</b>     | Sec. 17, T 26 S. , R 33 E  | <b>North Reference:</b>             | Grid                                    |
| <b>Well:</b>     | Vast State 4H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Wellbore:</b> | Wellbore #1                |                                     |                                         |
| <b>Design:</b>   | Plan #2                    |                                     |                                         |

| Planned Survey                                 |                 |             |                       |              |              |                         |                         |                        |                       |
|------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                          | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 8,812.8                                        | 0.00            | 0.00        | 8,812.8               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>Build 12°/100 @ 8813' MD</b>                |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,900.0                                        | 10.46           | 359.55      | 8,899.5               | 7.9          | -0.1         | 7.9                     | 12.00                   | 12.00                  | 0.00                  |
| 9,000.0                                        | 22.46           | 359.55      | 8,995.2               | 36.2         | -0.3         | 36.2                    | 12.00                   | 12.00                  | 0.00                  |
| 9,100.0                                        | 34.46           | 359.55      | 9,083.0               | 83.8         | -0.7         | 83.8                    | 12.00                   | 12.00                  | 0.00                  |
| 9,200.0                                        | 46.46           | 359.55      | 9,158.9               | 148.6        | -1.2         | 148.6                   | 12.00                   | 12.00                  | 0.00                  |
| 9,300.0                                        | 58.46           | 359.55      | 9,219.7               | 227.7        | -1.8         | 227.7                   | 12.00                   | 12.00                  | 0.00                  |
| 9,400.0                                        | 70.46           | 359.55      | 9,262.8               | 317.8        | -2.5         | 317.8                   | 12.00                   | 12.00                  | 0.00                  |
| 9,500.0                                        | 82.46           | 359.55      | 9,286.1               | 414.8        | -3.2         | 414.8                   | 12.00                   | 12.00                  | 0.00                  |
| 9,577.4                                        | 91.75           | 359.55      | 9,290.0               | 492.0        | -3.8         | 492.1                   | 12.00                   | 12.00                  | 0.00                  |
| <b>EOC @ 9577' MD / 91.75° Inc / 9290' TVD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,600.0                                        | 91.75           | 359.55      | 9,289.3               | 514.6        | -4.0         | 514.7                   | 0.01                    | 0.01                   | 0.00                  |
| 9,700.0                                        | 91.75           | 359.55      | 9,286.3               | 614.6        | -4.8         | 614.6                   | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0                                        | 91.75           | 359.55      | 9,283.2               | 714.5        | -5.6         | 714.6                   | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0                                        | 91.75           | 359.55      | 9,280.2               | 814.5        | -6.4         | 814.5                   | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0                                       | 91.75           | 359.55      | 9,277.1               | 914.4        | -7.2         | 914.5                   | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0                                       | 91.75           | 359.55      | 9,274.0               | 1,014.4      | -7.9         | 1,014.4                 | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0                                       | 91.75           | 359.55      | 9,271.0               | 1,114.3      | -8.7         | 1,114.4                 | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0                                       | 91.75           | 359.55      | 9,267.9               | 1,214.3      | -9.5         | 1,214.3                 | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0                                       | 91.75           | 359.55      | 9,264.9               | 1,314.2      | -10.3        | 1,314.3                 | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0                                       | 91.75           | 359.55      | 9,261.8               | 1,414.2      | -11.1        | 1,414.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0                                       | 91.75           | 359.55      | 9,258.7               | 1,514.1      | -11.8        | 1,514.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                                       | 91.75           | 359.55      | 9,255.7               | 1,614.1      | -12.6        | 1,614.1                 | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                                       | 91.75           | 359.55      | 9,252.6               | 1,714.0      | -13.4        | 1,714.1                 | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                                       | 91.75           | 359.55      | 9,249.6               | 1,814.0      | -14.2        | 1,814.0                 | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                                       | 91.75           | 359.55      | 9,246.5               | 1,913.9      | -15.0        | 1,914.0                 | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                                       | 91.75           | 359.55      | 9,243.4               | 2,013.9      | -15.7        | 2,013.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                                       | 91.75           | 359.55      | 9,240.4               | 2,113.8      | -16.5        | 2,113.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                                       | 91.75           | 359.55      | 9,237.3               | 2,213.8      | -17.3        | 2,213.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                                       | 91.75           | 359.55      | 9,234.3               | 2,313.7      | -18.1        | 2,313.8                 | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                                       | 91.75           | 359.55      | 9,231.2               | 2,413.7      | -18.9        | 2,413.8                 | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                                       | 91.75           | 359.55      | 9,228.1               | 2,513.6      | -19.7        | 2,513.7                 | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                                       | 91.75           | 359.55      | 9,225.1               | 2,613.6      | -20.4        | 2,613.7                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                                       | 91.75           | 359.55      | 9,222.0               | 2,713.5      | -21.2        | 2,713.6                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                                       | 91.75           | 359.55      | 9,218.9               | 2,813.5      | -22.0        | 2,813.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                                       | 91.75           | 359.55      | 9,215.9               | 2,913.4      | -22.8        | 2,913.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                                       | 91.75           | 359.55      | 9,212.8               | 3,013.4      | -23.6        | 3,013.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                                       | 91.75           | 359.55      | 9,209.8               | 3,113.3      | -24.3        | 3,113.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                                       | 91.75           | 359.55      | 9,206.7               | 3,213.3      | -25.1        | 3,213.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                                       | 91.75           | 359.55      | 9,203.6               | 3,313.2      | -25.9        | 3,313.3                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                                       | 91.75           | 359.55      | 9,200.6               | 3,413.2      | -26.7        | 3,413.3                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                                       | 91.75           | 359.55      | 9,197.5               | 3,513.1      | -27.5        | 3,513.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                                       | 91.75           | 359.55      | 9,194.5               | 3,613.1      | -28.3        | 3,613.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                                       | 91.75           | 359.55      | 9,191.4               | 3,713.0      | -29.0        | 3,713.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                                       | 91.75           | 359.55      | 9,188.3               | 3,813.0      | -29.8        | 3,813.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                                       | 91.75           | 359.55      | 9,185.3               | 3,912.9      | -30.6        | 3,913.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                                       | 91.75           | 359.55      | 9,182.2               | 4,012.9      | -31.4        | 4,013.0                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                                       | 91.75           | 359.55      | 9,179.2               | 4,112.8      | -32.2        | 4,113.0                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0                                       | 91.75           | 359.55      | 9,176.1               | 4,212.8      | -32.9        | 4,212.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0                                       | 91.75           | 359.55      | 9,173.0               | 4,312.7      | -33.7        | 4,312.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0                                       | 91.75           | 359.55      | 9,170.0               | 4,412.7      | -34.5        | 4,412.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0                                       | 91.75           | 359.55      | 9,166.9               | 4,512.6      | -35.3        | 4,512.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0                                       | 91.75           | 359.55      | 9,163.8               | 4,612.6      | -36.1        | 4,612.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0                                       | 91.75           | 359.55      | 9,160.8               | 4,712.5      | -36.9        | 4,712.7                 | 0.00                    | 0.00                   | 0.00                  |

# Integrity Directional Services, LLC

## Planning Report

|                  |                            |                                     |                                         |
|------------------|----------------------------|-------------------------------------|-----------------------------------------|
| <b>Database:</b> | EDM 5000.1 Multi User Db   | <b>Local Co-ordinate Reference:</b> | Well Vast State 4H                      |
| <b>Company:</b>  | COG Production L L C       | <b>TVD Reference:</b>               | KB=26' @ 3289.0usft (Scandriil Freedom) |
| <b>Project:</b>  | Lea County, NM (NAD27 NME) | <b>MD Reference:</b>                | KB=26' @ 3289.0usft (Scandriil Freedom) |
| <b>Site:</b>     | Sec. 17, T 26 S. , R 33 E  | <b>North Reference:</b>             | Grid                                    |
| <b>Well:</b>     | Vast State 4H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Wellbore:</b> | Wellbore #1                |                                     |                                         |
| <b>Design:</b>   | Plan #2                    |                                     |                                         |

| Planned Survey              |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft)       | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 13,900.0                    | 91.75           | 359.55      | 9,157.7               | 4,812.5      | -37.6        | 4,812.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,000.0                    | 91.75           | 359.55      | 9,154.7               | 4,912.4      | -38.4        | 4,912.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,100.0                    | 91.75           | 359.55      | 9,151.6               | 5,012.4      | -39.2        | 5,012.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,113.1                    | 91.75           | 359.55      | 9,151.2               | 5,025.5      | -39.3        | 5,025.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| TD at 14113' MD / 9151' TVD |                 |             |                       |              |              |                         |                         |                        |                       |  |

| 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                                                                                     |               |              |            |              |              |                 |                |                 |                   |  |
| State GR 1                                                                                  | 0.00          | 0.01         | 0.0        | 3,094.0      | -354.0       | 380,965.90      | 729,797.50     | 32° 2' 42.794 N | 103° 35' 30.060 W |  |
| - plan misses target center by 9211.9usft at 12465.2usft MD (9201.6 TVD, 3378.4 N, -26.4 E) |               |              |            |              |              |                 |                |                 |                   |  |
| - Circle (radius 200.0)                                                                     |               |              |            |              |              |                 |                |                 |                   |  |
| PBHL Vast State 4H F                                                                        | 0.00          | 0.00         | 9,151.2    | 5,025.5      | -39.3        | 382,897.40      | 730,112.20     | 32° 3' 1.887 N  | 103° 35' 26.249 W |  |
| - plan hits target center                                                                   |               |              |            |              |              |                 |                |                 |                   |  |
| - Point                                                                                     |               |              |            |              |              |                 |                |                 |                   |  |
| Pln #2 EOC Vast Stat                                                                        | 0.00          | 0.00         | 9,290.0    | 492.0        | -3.8         | 378,363.94      | 730,147.69     | 32° 2' 17.022 N | 103° 35' 26.199 W |  |
| - plan hits target center                                                                   |               |              |            |              |              |                 |                |                 |                   |  |
| - Point                                                                                     |               |              |            |              |              |                 |                |                 |                   |  |

| Formations            |                       |         |           |         |                   |  |
|-----------------------|-----------------------|---------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name    | Lithology | Dip (°) | Dip Direction (°) |  |
| 1,069.0               | 1,069.0               | Rustler |           | 0.00    |                   |  |
| 1,224.0               | 1,224.0               | TOS     |           | 0.00    |                   |  |
| 5,034.0               | 5,034.0               | BOS     |           | 0.00    |                   |  |
| 5,084.0               | 5,084.0               | LMAR    |           | 0.00    |                   |  |
| 5,169.0               | 5,169.0               | BLCN    |           | 0.00    |                   |  |
| 6,207.0               | 6,207.0               | CYCN    |           | 0.00    |                   |  |
| 7,869.0               | 7,869.0               | BYCN    |           | 0.00    |                   |  |

| Plan Annotations      |                       |                   |              |                                         |  |
|-----------------------|-----------------------|-------------------|--------------|-----------------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                                 |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                         |  |
| 8,812.8               | 8,812.8               | 0.0               | 0.0          | Build 12°/100 @ 8813' MD                |  |
| 9,577.4               | 9,290.0               | 492.0             | -3.8         | EOC @ 9577' MD / 91.75° Inc / 9290' TVD |  |
| 14,113.1              | 9,151.2               | 5,025.5           | -39.3        | TD at 14113' MD / 9151' TVD             |  |