

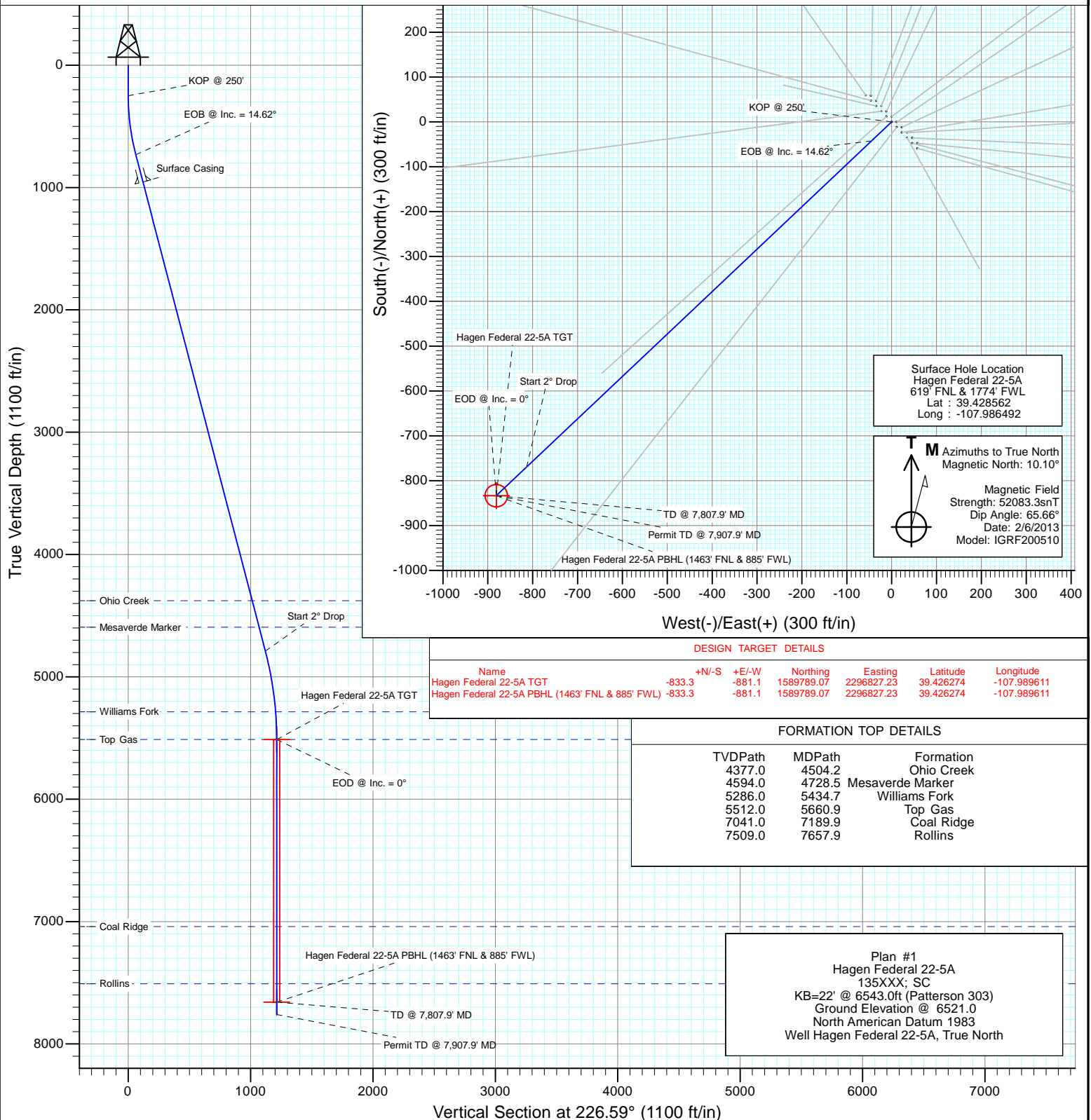


Project: S. Piceance (Parachute)
Site: PC-22 Pad NENW 2 7S 95W
Well: Hagen Federal 22-5A
Wellbore: OH
Design: Plan #1



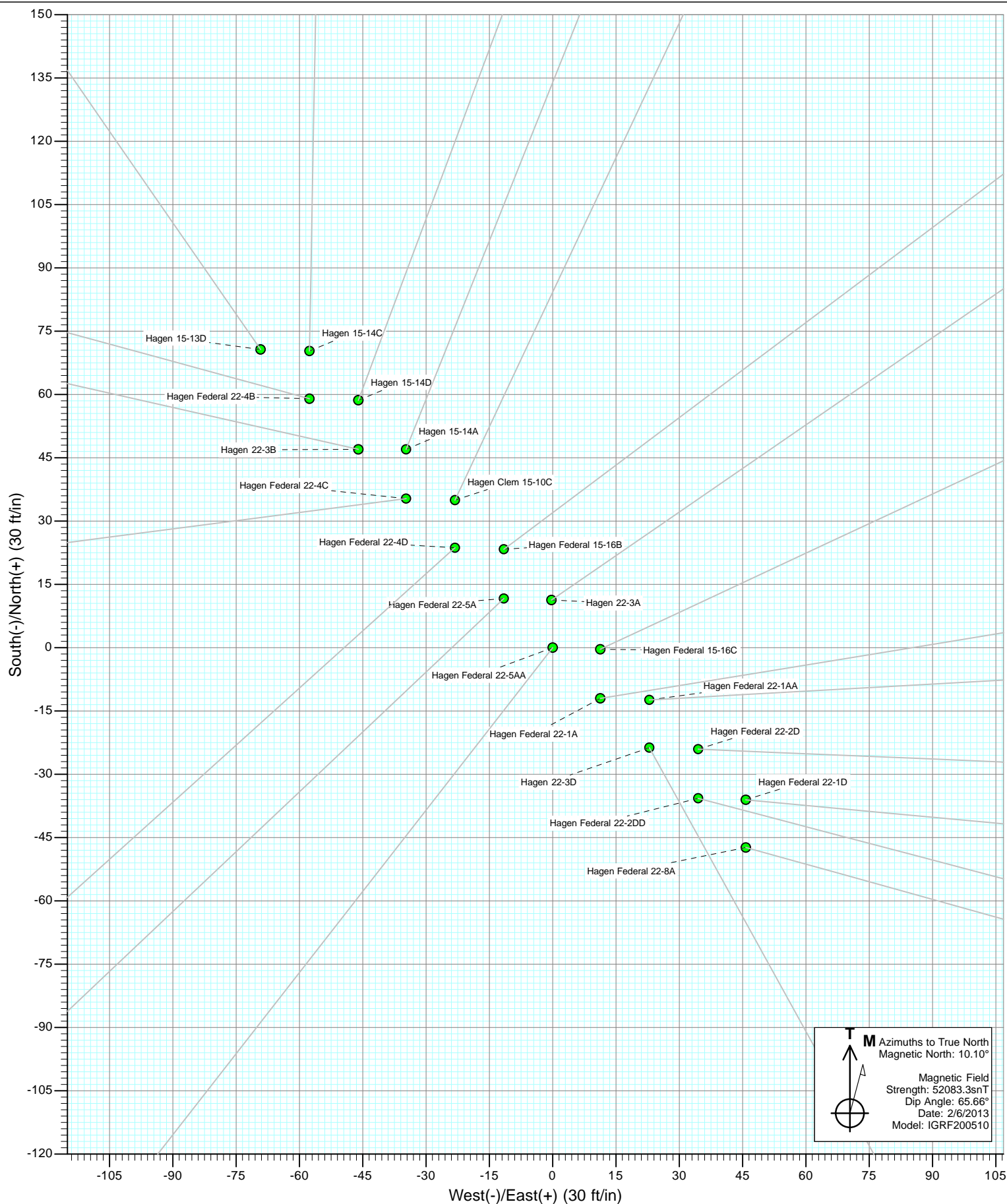
SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
|-----|--------|-------|--------|--------|--------|--------|------|--------|--------|---|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 737.3 | 14.62 | 226.59 | 732.0 | -42.5 | -44.9 | 3.00 | 226.59 | 61.8 | |
| 4 | 4930.0 | 14.62 | 226.59 | 4789.0 | -769.6 | -813.7 | 0.00 | 0.00 | 1120.0 | |
| 5 | 5660.9 | 0.00 | 0.00 | 5512.0 | -833.3 | -881.1 | 2.00 | 180.00 | 1212.7 | Hagen Federal 22-5A TGT |
| 6 | 7807.9 | 0.00 | 0.00 | 7659.0 | -833.3 | -881.1 | 0.00 | 0.00 | 1212.7 | Hagen Federal 22-5A PBHL (1463' FNL & 885' FWL) |
| 7 | 7907.9 | 0.00 | 0.00 | 7759.0 | -833.3 | -881.1 | 0.00 | 0.00 | 1212.7 | |





Project: S. Piceance (Parachute)
Site: PC-22 Pad NENW 2 7S 95W



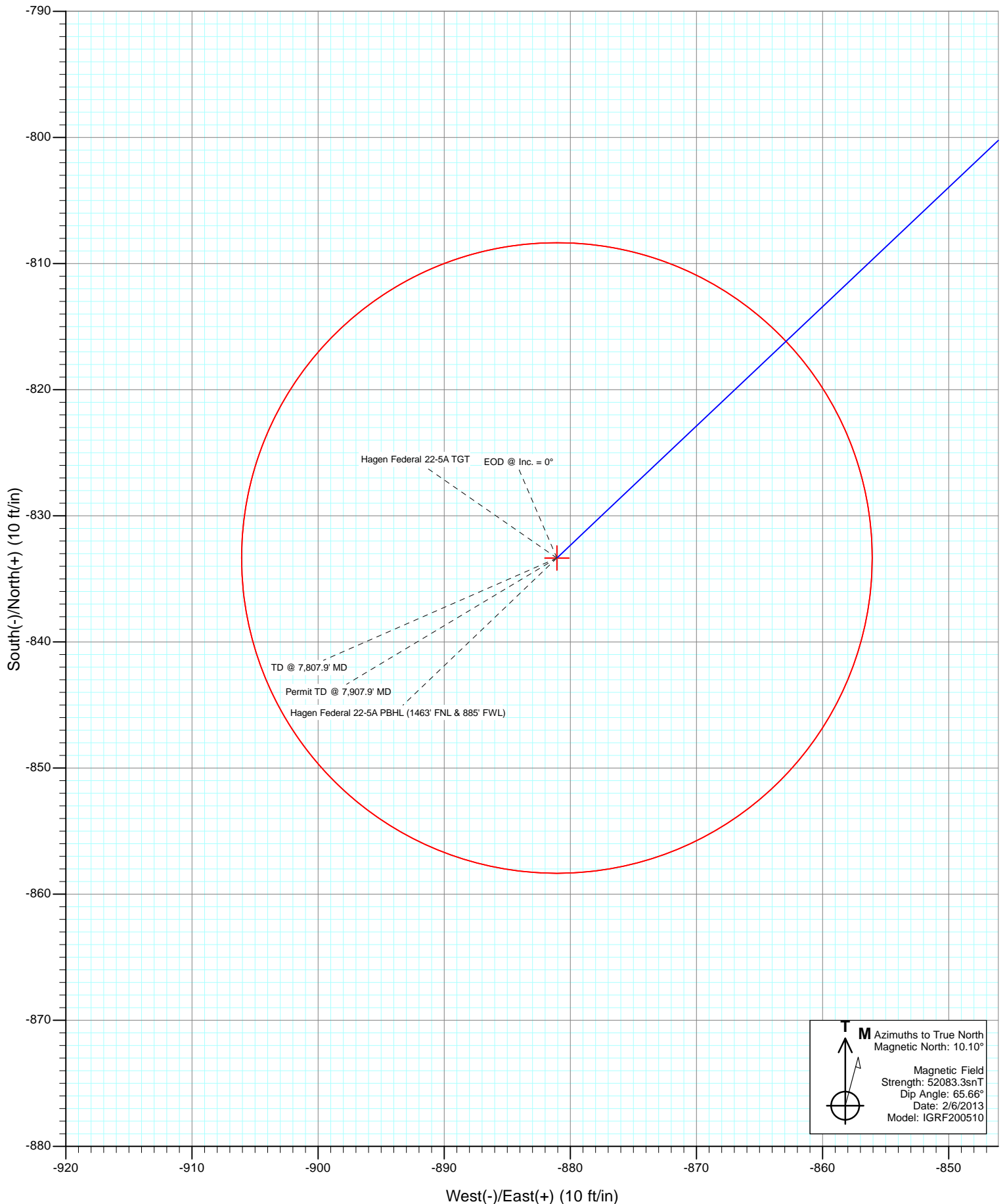


Project: S. Piceance (Parachute)
Site: PC-22 Pad NENW 2 7S 95W





Project: S. Piceance (Parachute)
Site: PC-22 Pad NENW 2 7S 95W
Well: Hagen Federal 22-5A
Wellbore: OH
Design: Plan #1



Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Hagen Federal 22-5A |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KB=22' @ 6543.0ft (Patterson 303) |
| Project: | S. Piceance (Parachute) | MD Reference: | KB=22' @ 6543.0ft (Patterson 303) |
| Site: | PC-22 Pad NENW 2 7S 95W | North Reference: | True |
| Well: | Hagen Federal 22-5A | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|--|----------------------|----------------|
| Project | S. Piceance (Parachute), Garfield County, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| | | | | | |
|-----------------------|----------|-------------------------|-----------------|-------------------|-------------|
| Site | | PC-22 Pad NENW 2 7S 95W | | | |
| Site Position: | | Northing: | 1,590,596.09 ft | Latitude: | 39.428560 |
| From: | Lat/Long | Easting: | 2,297,773.66 ft | Longitude: | -107.986340 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.57 ° |

| | | | | | | |
|----------------------|---------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | Hagen Federal 22-5A | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,590,597.98 ft | Latitude: | 39.428562 |
| | +E/-W | 0.0 ft | Easting: | 2,297,730.77 ft | Longitude: | -107.986492 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 6,521.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | | | (°) | (°) | (nT) |
| | IGRF200510 | 2/6/2013 | 10.10 | 65.66 | 52,083 |

| | | | | |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| Design | Plan #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction |
| | (ft) | (ft) | (ft) | (°) |
| | 0.0 | 0.0 | 0.0 | 226.59 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 737.3 | 14.62 | 226.59 | 732.0 | -42.5 | -44.9 | 3.00 | 3.00 | 0.00 | 226.59 | |
| 4,930.0 | 14.62 | 226.59 | 4,789.0 | -769.6 | -813.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,660.9 | 0.00 | 0.00 | 5,512.0 | -833.3 | -881.1 | 2.00 | -2.00 | 0.00 | 180.00 | Hagen Federal 22-5A |
| 7,807.9 | 0.00 | 0.00 | 7,659.0 | -833.3 | -881.1 | 0.00 | 0.00 | 0.00 | 0.00 | Hagen Federal 22-5A |
| 7,907.9 | 0.00 | 0.00 | 7,759.0 | -833.3 | -881.1 | 0.00 | 0.00 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Hagen Federal 22-5A |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KB=22' @ 6543.0ft (Patterson 303) |
| Project: | S. Piceance (Parachute) | MD Reference: | KB=22' @ 6543.0ft (Patterson 303) |
| Site: | PC-22 Pad NENW 2 7S 95W | North Reference: | True |
| Well: | Hagen Federal 22-5A | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 250' |
| 300.0 | 1.50 | 226.59 | 300.0 | -0.4 | -0.5 | 0.7 | 3.00 | 3.00 | |
| 400.0 | 4.50 | 226.59 | 399.8 | -4.0 | -4.3 | 5.9 | 3.00 | 3.00 | |
| 500.0 | 7.50 | 226.59 | 499.3 | -11.2 | -11.9 | 16.3 | 3.00 | 3.00 | |
| 600.0 | 10.50 | 226.59 | 598.0 | -22.0 | -23.2 | 32.0 | 3.00 | 3.00 | |
| 700.0 | 13.50 | 226.59 | 695.8 | -36.3 | -38.3 | 52.8 | 3.00 | 3.00 | |
| 737.3 | 14.62 | 226.59 | 732.0 | -42.5 | -44.9 | 61.8 | 3.00 | 3.00 | EOB @ Inc. = 14.62° |
| 800.0 | 14.62 | 226.59 | 792.7 | -53.4 | -56.4 | 77.7 | 0.00 | 0.00 | |
| 900.0 | 14.62 | 226.59 | 889.5 | -70.7 | -74.8 | 102.9 | 0.00 | 0.00 | |
| 967.7 | 14.62 | 226.59 | 955.0 | -82.5 | -87.2 | 120.0 | 0.00 | 0.00 | Surface Casing |
| 1,000.0 | 14.62 | 226.59 | 986.2 | -88.0 | -93.1 | 128.1 | 0.00 | 0.00 | |
| 1,100.0 | 14.62 | 226.59 | 1,083.0 | -105.4 | -111.4 | 153.4 | 0.00 | 0.00 | |
| 1,200.0 | 14.62 | 226.59 | 1,179.8 | -122.7 | -129.8 | 178.6 | 0.00 | 0.00 | |
| 1,300.0 | 14.62 | 226.59 | 1,276.5 | -140.1 | -148.1 | 203.8 | 0.00 | 0.00 | |
| 1,400.0 | 14.62 | 226.59 | 1,373.3 | -157.4 | -166.4 | 229.1 | 0.00 | 0.00 | |
| 1,500.0 | 14.62 | 226.59 | 1,470.0 | -174.8 | -184.8 | 254.3 | 0.00 | 0.00 | |
| 1,600.0 | 14.62 | 226.59 | 1,566.8 | -192.1 | -203.1 | 279.6 | 0.00 | 0.00 | |
| 1,700.0 | 14.62 | 226.59 | 1,663.6 | -209.4 | -221.4 | 304.8 | 0.00 | 0.00 | |
| 1,800.0 | 14.62 | 226.59 | 1,760.3 | -226.8 | -239.8 | 330.0 | 0.00 | 0.00 | |
| 1,900.0 | 14.62 | 226.59 | 1,857.1 | -244.1 | -258.1 | 355.3 | 0.00 | 0.00 | |
| 2,000.0 | 14.62 | 226.59 | 1,953.9 | -261.5 | -276.4 | 380.5 | 0.00 | 0.00 | |
| 2,100.0 | 14.62 | 226.59 | 2,050.6 | -278.8 | -294.8 | 405.8 | 0.00 | 0.00 | |
| 2,200.0 | 14.62 | 226.59 | 2,147.4 | -296.2 | -313.1 | 431.0 | 0.00 | 0.00 | |
| 2,300.0 | 14.62 | 226.59 | 2,244.1 | -313.5 | -331.5 | 456.2 | 0.00 | 0.00 | |
| 2,400.0 | 14.62 | 226.59 | 2,340.9 | -330.8 | -349.8 | 481.5 | 0.00 | 0.00 | |
| 2,500.0 | 14.62 | 226.59 | 2,437.7 | -348.2 | -368.1 | 506.7 | 0.00 | 0.00 | |
| 2,600.0 | 14.62 | 226.59 | 2,534.4 | -365.5 | -386.5 | 531.9 | 0.00 | 0.00 | |
| 2,700.0 | 14.62 | 226.59 | 2,631.2 | -382.9 | -404.8 | 557.2 | 0.00 | 0.00 | |
| 2,800.0 | 14.62 | 226.59 | 2,728.0 | -400.2 | -423.1 | 582.4 | 0.00 | 0.00 | |
| 2,900.0 | 14.62 | 226.59 | 2,824.7 | -417.6 | -441.5 | 607.7 | 0.00 | 0.00 | |
| 3,000.0 | 14.62 | 226.59 | 2,921.5 | -434.9 | -459.8 | 632.9 | 0.00 | 0.00 | |
| 3,100.0 | 14.62 | 226.59 | 3,018.2 | -452.2 | -478.1 | 658.1 | 0.00 | 0.00 | |
| 3,200.0 | 14.62 | 226.59 | 3,115.0 | -469.6 | -496.5 | 683.4 | 0.00 | 0.00 | |
| 3,300.0 | 14.62 | 226.59 | 3,211.8 | -486.9 | -514.8 | 708.6 | 0.00 | 0.00 | |
| 3,400.0 | 14.62 | 226.59 | 3,308.5 | -504.3 | -533.1 | 733.9 | 0.00 | 0.00 | |
| 3,500.0 | 14.62 | 226.59 | 3,405.3 | -521.6 | -551.5 | 759.1 | 0.00 | 0.00 | |
| 3,600.0 | 14.62 | 226.59 | 3,502.1 | -539.0 | -569.8 | 784.3 | 0.00 | 0.00 | |
| 3,700.0 | 14.62 | 226.59 | 3,598.8 | -556.3 | -588.2 | 809.6 | 0.00 | 0.00 | |
| 3,800.0 | 14.62 | 226.59 | 3,695.6 | -573.6 | -606.5 | 834.8 | 0.00 | 0.00 | |
| 3,900.0 | 14.62 | 226.59 | 3,792.3 | -591.0 | -624.8 | 860.0 | 0.00 | 0.00 | |
| 4,000.0 | 14.62 | 226.59 | 3,889.1 | -608.3 | -643.2 | 885.3 | 0.00 | 0.00 | |
| 4,100.0 | 14.62 | 226.59 | 3,985.9 | -625.7 | -661.5 | 910.5 | 0.00 | 0.00 | |
| 4,200.0 | 14.62 | 226.59 | 4,082.6 | -643.0 | -679.8 | 935.8 | 0.00 | 0.00 | |
| 4,300.0 | 14.62 | 226.59 | 4,179.4 | -660.4 | -698.2 | 961.0 | 0.00 | 0.00 | |
| 4,400.0 | 14.62 | 226.59 | 4,276.2 | -677.7 | -716.5 | 986.2 | 0.00 | 0.00 | |
| 4,500.0 | 14.62 | 226.59 | 4,372.9 | -695.0 | -734.8 | 1,011.5 | 0.00 | 0.00 | |
| 4,504.2 | 14.62 | 226.59 | 4,377.0 | -695.8 | -735.6 | 1,012.5 | 0.00 | 0.00 | Ohio Creek |
| 4,600.0 | 14.62 | 226.59 | 4,469.7 | -712.4 | -753.2 | 1,036.7 | 0.00 | 0.00 | |
| 4,700.0 | 14.62 | 226.59 | 4,566.4 | -729.7 | -771.5 | 1,062.0 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Hagen Federal 22-5A |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KB=22' @ 6543.0ft (Patterson 303) |
| Project: | S. Piceance (Parachute) | MD Reference: | KB=22' @ 6543.0ft (Patterson 303) |
| Site: | PC-22 Pad NENW 2 7S 95W | North Reference: | True |
| Well: | Hagen Federal 22-5A | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
| 4,728.5 | 14.62 | 226.59 | 4,594.0 | -734.7 | -776.7 | 1,069.1 | 0.00 | 0.00 | Mesaverde Marker |
| 4,800.0 | 14.62 | 226.59 | 4,663.2 | -747.1 | -789.8 | 1,087.2 | 0.00 | 0.00 | |
| 4,900.0 | 14.62 | 226.59 | 4,760.0 | -764.4 | -808.2 | 1,112.4 | 0.00 | 0.00 | |
| 4,930.0 | 14.62 | 226.59 | 4,789.0 | -769.6 | -813.7 | 1,120.0 | 0.00 | 0.00 | Start 2° Drop |
| 5,000.0 | 13.22 | 226.59 | 4,856.9 | -781.2 | -825.9 | 1,136.8 | 2.00 | -2.00 | |
| 5,100.0 | 11.22 | 226.59 | 4,954.7 | -795.7 | -841.3 | 1,158.0 | 2.00 | -2.00 | |
| 5,200.0 | 9.22 | 226.59 | 5,053.1 | -807.9 | -854.2 | 1,175.7 | 2.00 | -2.00 | |
| 5,300.0 | 7.22 | 226.59 | 5,152.1 | -817.7 | -864.6 | 1,190.0 | 2.00 | -2.00 | |
| 5,400.0 | 5.22 | 226.59 | 5,251.5 | -825.2 | -872.4 | 1,200.9 | 2.00 | -2.00 | |
| 5,434.7 | 4.52 | 226.59 | 5,286.0 | -827.2 | -874.6 | 1,203.8 | 2.00 | -2.00 | Williams Fork |
| 5,500.0 | 3.22 | 226.59 | 5,351.2 | -830.2 | -877.8 | 1,208.2 | 2.00 | -2.00 | |
| 5,600.0 | 1.22 | 226.59 | 5,451.1 | -832.9 | -880.6 | 1,212.1 | 2.00 | -2.00 | |
| 5,660.9 | 0.00 | 0.00 | 5,512.0 | -833.3 | -881.1 | 1,212.7 | 2.00 | -2.00 | EOD @ Inc. = 0° - Top Gas |
| 5,700.0 | 0.00 | 0.00 | 5,551.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 5,800.0 | 0.00 | 0.00 | 5,651.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 5,900.0 | 0.00 | 0.00 | 5,751.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 6,000.0 | 0.00 | 0.00 | 5,851.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 6,100.0 | 0.00 | 0.00 | 5,951.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 6,200.0 | 0.00 | 0.00 | 6,051.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 6,300.0 | 0.00 | 0.00 | 6,151.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 6,400.0 | 0.00 | 0.00 | 6,251.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 6,500.0 | 0.00 | 0.00 | 6,351.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 6,600.0 | 0.00 | 0.00 | 6,451.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 6,700.0 | 0.00 | 0.00 | 6,551.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 6,800.0 | 0.00 | 0.00 | 6,651.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 6,900.0 | 0.00 | 0.00 | 6,751.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 7,000.0 | 0.00 | 0.00 | 6,851.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 7,100.0 | 0.00 | 0.00 | 6,951.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 7,189.9 | 0.00 | 0.00 | 7,041.0 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | Coal Ridge |
| 7,200.0 | 0.00 | 0.00 | 7,051.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 7,300.0 | 0.00 | 0.00 | 7,151.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 7,400.0 | 0.00 | 0.00 | 7,251.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 7,500.0 | 0.00 | 0.00 | 7,351.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 7,600.0 | 0.00 | 0.00 | 7,451.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 7,657.9 | 0.00 | 0.00 | 7,509.0 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | Rollins |
| 7,700.0 | 0.00 | 0.00 | 7,551.1 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | |
| 7,807.9 | 0.00 | 0.00 | 7,659.0 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | TD @ 7,807.9' MD |
| 7,907.9 | 0.00 | 0.00 | 7,759.0 | -833.3 | -881.1 | 1,212.7 | 0.00 | 0.00 | Permit TD @ 7,907.9' MD |

| Targets | | | | | | | | | |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| Hagen Federal 22-5A PE - plan hits target center - Circle (radius 25.0) | 0.00 | 0.00 | 7,659.0 | -833.3 | -881.1 | 1,589,789.07 | 2,296,827.23 | 39.426274 | -107.989611 |
| Hagen Federal 22-5A TC - plan hits target center - Point | 0.00 | 0.00 | 5,512.0 | -833.3 | -881.1 | 1,589,789.07 | 2,296,827.23 | 39.426274 | -107.989611 |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Hagen Federal 22-5A |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KB=22' @ 6543.0ft (Patterson 303) |
| Project: | S. Piceance (Parachute) | MD Reference: | KB=22' @ 6543.0ft (Patterson 303) |
| Site: | PC-22 Pad NENW 2 7S 95W | North Reference: | True |
| Well: | Hagen Federal 22-5A | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (in) | Hole Diameter (in) |
|---------------------|---------------------|----------------|----------------------|--------------------|
| 967.7 | 955.0 | Surface Casing | | |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|------------------|-----------|---------|-------------------|
| 4,504.2 | 4,377.0 | Ohio Creek | | | |
| 4,728.5 | 4,594.0 | Mesaverde Marker | | | |
| 5,434.7 | 5,286.0 | Williams Fork | | | |
| 5,660.9 | 5,512.0 | Top Gas | | | |
| 7,189.9 | 7,041.0 | Coal Ridge | | | |
| 7,657.9 | 7,509.0 | Rollins | | | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
|---------------------|---------------------|-------------------|------------|-------------------------|
| | | +N/-S (ft) | +E/-W (ft) | |
| 250.0 | 250.0 | 0.0 | 0.0 | KOP @ 250' |
| 737.3 | 732.0 | -42.5 | -44.9 | EOB @ Inc. = 14.62° |
| 4,930.0 | 4,789.0 | -769.6 | -813.7 | Start 2° Drop |
| 5,660.9 | 5,512.0 | -833.3 | -881.1 | EOD @ Inc. = 0° |
| 7,807.9 | 7,659.0 | -833.3 | -881.1 | TD @ 7,807.9' MD |
| 7,907.9 | 7,759.0 | -833.3 | -881.1 | Permit TD @ 7,907.9' MD |