



# Crestone Peak Resources

Schlumberger

Plan 1

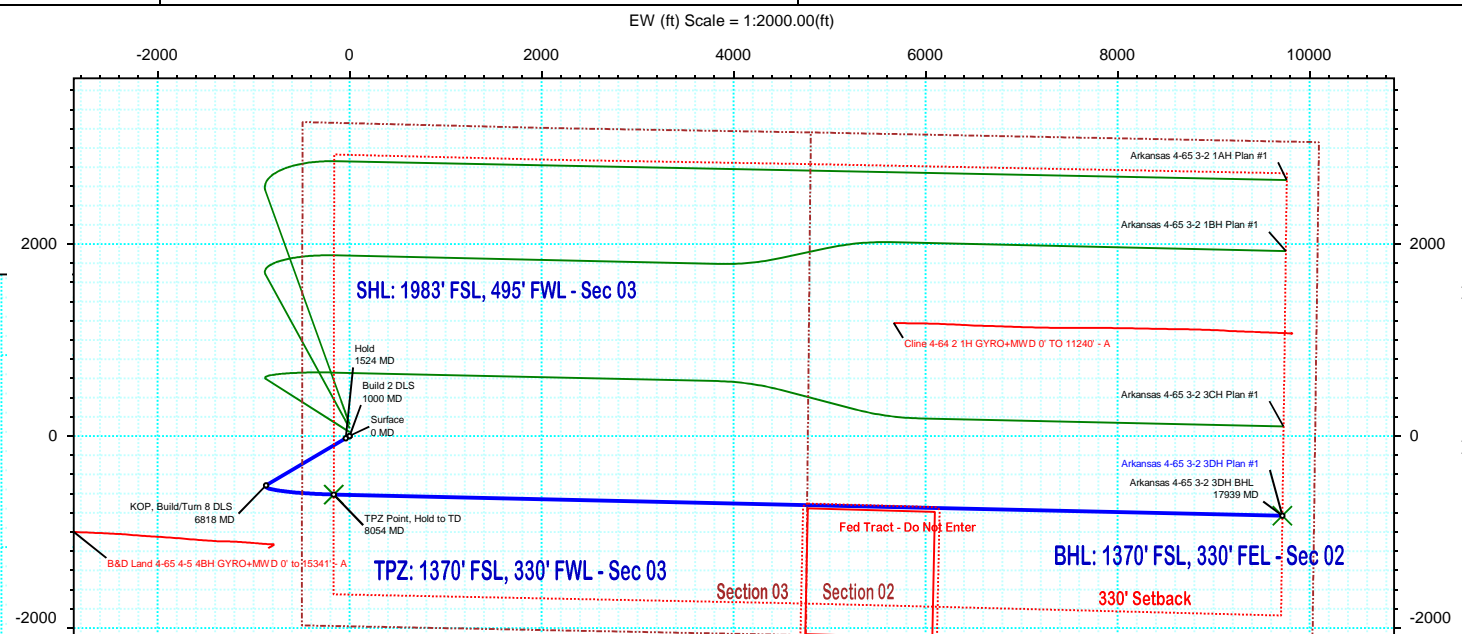
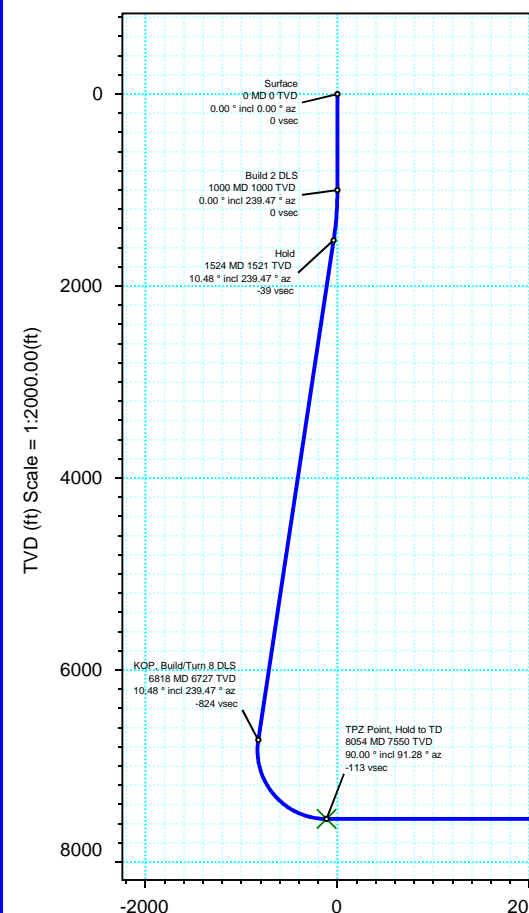
|               |                       |                                 |  |
|---------------|-----------------------|---------------------------------|--|
| Borehole:     | Well:                 | Field:                          | Structure:                                       |
| Original Hole | Arkansas 4-65 3-2 3DH | CO, Arapahoe County (NAD 83 CZ) | Crestone Peak 03-04S-64W (Arkansas 4-65 3-2 Pad) |

| Gravity & Magnetic Parameters |           |      |             |             | Surface Location           |      |                |           | NAD83 Colorado State Plane, Central Zone, US Feet |             |            |       | Miscellaneous                 |          |                             |  |
|-------------------------------|-----------|------|-------------|-------------|----------------------------|------|----------------|-----------|---|-------------|------------|-------|-------------------------------|----------|-----------------------------|--|
| Model:                        | HDGM 2021 | Dip: | 66.356°     | Date:       | 21-Jul-2021                | Lat: | N 39 43 47.54  | Northing: | 1692150.02ftUS                                    | Grid Conv:  | 0.6029°    | Slot: | Arkansas 4-65 3-2 3DH         | TVD Ref: | KB 13ft(5624.1ft above MSL) |  |
| MagDec:                       | 8.335°    | FS:  | 51513.632nT | Gravity FS: | 998.935mgn (9.80665 Based) | Lon: | W 104 32 38.66 | Easting:  | 3268861.97ftUS                                    | Scale Fact: | 0.99999608 | Plan: | Arkansas 4-65 3-2 3DH Plan #1 |          |                             |  |

Proposal



True North  
Tot Corr (M->T 8.335°)  
Mag Dec (8.335°)  
Grid Conv (0.603°)



| Target Description                        |               | Surface Location         |            | Grid Coord              |         | Local Coord               |           |
|---|---------------|--------------------------|------------|-------------------------|---------|---------------------------|-----------|
| Northing: 1692150.01501093                |               | Easting: 3268861.9747841 |            | Latitude: N 39 43 47.54 |         | Longitude: W 104 32 38.66 |           |
| VSec Azimuth: 94.89                       |               |                          |            |                         |         |                           |           |
| Target Name                               | Latitude      | Longitude                | Northing   | Easting                 | TVD     | VSec                      | N(+)/S(-) |
| Arkansas 4-65 3-2 Pad Sec 2-3             | N 39 43 48.72 | W 104 32 38.66           | 1692269.86 | 3268860.99              | 5624.10 | -9.93                     | 119.85    |
| Arkansas 4-65 3-2 Pad - Fed Tract 2 - 50' | N 39 43 48.72 | W 104 32 38.66           | 1692269.86 | 3268860.99              | 5624.10 | -9.93                     | 119.84    |
| Arkansas 4-65 3-2 Pad Sec 2-3 - 330' SB   | N 39 43 48.72 | W 104 32 38.66           | 1692269.86 | 3268860.99              | 5624.10 | -9.93                     | 119.84    |
| Arkansas 4-65 3-2 Pad - Fed Tract 2       | N 39 43 48.72 | W 104 32 38.66           | 1692269.86 | 3268860.99              | 5624.10 | -9.93                     | 119.84    |
| Arkansas 4-65 3-2 3DH TPZ                 | N 39 43 41.51 | W 104 32 40.78           | 1691538.53 | 3268703.01              | 7550.00 | -112.83                   | -609.79   |
| Arkansas 4-65 3-2 3DH BHL                 | N 39 43 39.31 | W 104 30 34.30           | 1691421.43 | 3278586.72              | 7550.00 | 9752.06                   | -830.87   |

| Critical Points           |          |       |        |         |         |           |           |      |
|---------------------------|----------|-------|--------|---------|---------|-----------|-----------|------|
| Critical Point            | MD       | INCL  | AZIM   | TVD     | VSEC    | N(+)/S(-) | E(+)/W(-) | DLS  |
| Surface                   | 0.00     | 0.00  | 0.00   | 0.00    | 0.00    | 0.00      | 0.00      |      |
| Build 2 DLS               | 1000.00  | 0.00  | 239.47 | 1000.00 | 0.00    | 0.00      | 0.00      | 0.00 |
| Hold                      | 1524.23  | 10.48 | 239.47 | 1521.31 | -38.98  | -24.30    | -41.20    | 2.00 |
| KOP, Build/Turn 8 DLS     | 6818.27  | 10.48 | 239.47 | 6726.96 | -824.06 | -513.69   | -871.00   | 0.00 |
| TPZ Point, Hold to TD     | 8054.47  | 90.00 | 91.28  | 7550.00 | -112.83 | -609.79   | -165.39   | 8.00 |
| Arkansas 4-65 3-2 3DH BHL | 17939.92 | 90.00 | 91.28  | 7550.00 | 9752.06 | -830.87   | 9716.60   | 0.00 |

Vertical Section (ft) Azim = 94.89° Scale = 1:2000.00(ft) Origin = 0N/-S, 0E/-W

## Arkansas 4-65 3-2 3DH Plan #1 Proposal Geodetic Report



(Def Plan)

**Report Date:** July 21, 2021 - 02:58 PM  
**Client:** Crestone Peak Resources  
**Field:** CO, Arapahoe County (NAD 83 CZ)  
**Structure / Slot:** Crestone Peak 03-04S-64W (Arkansas 4-65 3-2 Pad) / Arkansas 4-65 3-2 3DH  
**Well:** Arkansas 4-65 3-2 3DH  
**Borehole:** Original Hole  
**UWI / API#:** Unknown / Unknown  
**Survey Name:** Arkansas 4-65 3-2 3DH Plan #1  
**Survey Date:** July 21, 2021  
**Tort / AHD / DDI / ERD Ratio:** 109.380 ° / 11637.097 ft / 6.481 / 1.541  
**Coordinate Reference System:** NAD83 Colorado State Plane, Central Zone, US Feet  
**Location Lat / Long:** N 39° 43' 47.53920", W 104° 32' 38.65920"  
**Location Grid N/E Y/X:** N 1692150.015 fTUS, E 3268861.975 fTUS  
**CRS Grid Convergence Angle:** 0.6029 °  
**Grid Scale Factor:** 0.99999608  
**Version / Patch:** 2.10.825.0

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 94.888 ° (True North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** KB 13ft  
**TVD Reference Elevation:** 5624.100 ft above MSL  
**Seabed / Ground Elevation:** 5611.100 ft above MSL  
**Magnetic Declination:** 8.335 °  
**Total Gravity Field Strength:** 998.9352mgn (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 51513.632 nT  
**Magnetic Dip Angle:** 66.356 °  
**Declination Date:** July 21, 2021  
**Magnetic Declination Model:** HDGM 2021  
**North Reference:** True North  
**Grid Convergence Used:** 0.0000 °  
**Total Corr Mag North->True North:** 8.3352 °  
**Local Coord Referenced To:** Well Head

| Comments    | MD<br>(ft) | Incl<br>(°) | Azim True<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(°) | Longitude<br>(°) |
|-------------|------------|-------------|------------------|-------------|---------------|--------------|------------|------------|------------------|--------------------|-------------------|-----------------|------------------|
| Surface     | 0.00       | 0.00        | 0.00             | 0.00        | -5624.10      | 0.00         | 0.00       | 0.00       | N/A              | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
|             | 100.00     | 0.00        | 239.47           | 100.00      | -5524.10      | 0.00         | 0.00       | 0.00       | 0.00             | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
|             | 200.00     | 0.00        | 239.47           | 200.00      | -5424.10      | 0.00         | 0.00       | 0.00       | 0.00             | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
|             | 300.00     | 0.00        | 239.47           | 300.00      | -5324.10      | 0.00         | 0.00       | 0.00       | 0.00             | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
|             | 400.00     | 0.00        | 239.47           | 400.00      | -5224.10      | 0.00         | 0.00       | 0.00       | 0.00             | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
|             | 500.00     | 0.00        | 239.47           | 500.00      | -5124.10      | 0.00         | 0.00       | 0.00       | 0.00             | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
|             | 600.00     | 0.00        | 239.47           | 600.00      | -5024.10      | 0.00         | 0.00       | 0.00       | 0.00             | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
|             | 700.00     | 0.00        | 239.47           | 700.00      | -4924.10      | 0.00         | 0.00       | 0.00       | 0.00             | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
|             | 800.00     | 0.00        | 239.47           | 800.00      | -4824.10      | 0.00         | 0.00       | 0.00       | 0.00             | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
|             | 900.00     | 0.00        | 239.47           | 900.00      | -4724.10      | 0.00         | 0.00       | 0.00       | 0.00             | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
| Build 2 DLS | 1000.00    | 0.00        | 239.47           | 1000.00     | -4624.10      | 0.00         | 0.00       | 0.00       | 0.00             | 1692150.02         | 3268861.97        | 39.729872       | -104.544072      |
|             | 1100.00    | 2.00        | 239.47           | 1099.98     | -4524.12      | -1.42        | -0.89      | -1.50      | 2.00             | 1692149.11         | 3268860.48        | 39.729870       | -104.544077      |
|             | 1200.00    | 4.00        | 239.47           | 1199.84     | -4424.26      | -5.69        | -3.55      | -6.01      | 2.00             | 1692146.41         | 3268856.00        | 39.729862       | -104.544093      |
|             | 1300.00    | 6.00        | 239.47           | 1299.45     | -4324.65      | -12.79       | -7.97      | -13.52     | 2.00             | 1692141.90         | 3268848.54        | 39.729850       | -104.544120      |
|             | 1400.00    | 8.00        | 239.47           | 1398.70     | -4225.40      | -22.72       | -14.16     | -24.01     | 2.00             | 1692135.60         | 3268838.11        | 39.729833       | -104.544157      |
|             | 1500.00    | 10.00       | 239.47           | 1497.47     | -4126.63      | -35.47       | -22.11     | -37.49     | 2.00             | 1692127.51         | 3268824.72        | 39.729811       | -104.544205      |
|             | 1524.23    | 10.48       | 239.47           | 1521.31     | -4102.79      | -38.98       | -24.30     | -41.20     | 2.00             | 1692125.28         | 3268821.03        | 39.729805       | -104.544218      |
|             | 1600.00    | 10.48       | 239.47           | 1595.81     | -4028.29      | -50.22       | -31.30     | -53.08     | 0.00             | 1692118.16         | 3268809.23        | 39.729786       | -104.544261      |
|             | 1700.00    | 10.48       | 239.47           | 1694.14     | -3929.96      | -65.05       | -40.55     | -68.75     | 0.00             | 1692108.75         | 3268793.66        | 39.729761       | -104.544316      |
|             | 1800.00    | 10.48       | 239.47           | 1792.47     | -3831.63      | -79.87       | -49.79     | -84.42     | 0.00             | 1692099.34         | 3268778.08        | 39.729735       | -104.544372      |
| \           | 1900.00    | 10.48       | 239.47           | 1890.81     | -3733.29      | -94.70       | -59.04     | -100.10    | 0.00             | 1692089.93         | 3268762.50        | 39.729710       | -104.544428      |
|             | 2000.00    | 10.48       | 239.47           | 1889.14     | -3634.96      | -109.53      | -68.28     | -115.77    | 0.00             | 1692080.52         | 3268746.93        | 39.729685       | -104.544484      |
|             | 2100.00    | 10.48       | 239.47           | 2087.47     | -3536.63      | -124.36      | -77.52     | -131.45    | 0.00             | 1692071.11         | 3268731.35        | 39.729659       | -104.544539      |
|             | 2200.00    | 10.48       | 239.47           | 2185.80     | -3438.30      | -139.19      | -86.77     | -147.12    | 0.00             | 1692061.70         | 3268717.28        | 39.729634       | -104.544595      |
|             | 2300.00    | 10.48       | 239.47           | 2284.13     | -3339.97      | -154.02      | -96.01     | -162.80    | 0.00             | 1692052.30         | 3268700.70        | 39.729608       | -104.544651      |
|             | 2400.00    | 10.48       | 239.47           | 2382.46     | -3241.64      | -168.85      | -105.26    | -178.47    | 0.00             | 1692042.89         | 3268684.62        | 39.729583       | -104.544707      |
|             | 2500.00    | 10.48       | 239.47           | 2480.79     | -3143.31      | -183.68      | -114.50    | -194.14    | 0.00             | 1692033.48         | 3268669.05        | 39.729558       | -104.544762      |
|             | 2600.00    | 10.48       | 239.47           | 2579.12     | -3044.98      | -198.51      | -123.74    | -209.82    | 0.00             | 1692024.07         | 3268653.47        | 39.729532       | -104.544818      |
|             | 2700.00    | 10.48       | 239.47           | 2677.45     | -2946.65      | -213.34      | -132.99    | -225.49    | 0.00             | 1692014.66         | 3268637.90        | 39.729507       | -104.544874      |
|             | 2800.00    | 10.48       | 239.47           | 2775.78     | -2848.32      | -228.17      | -142.23    | -241.17    | 0.00             | 1692005.25         | 3268622.32        | 39.729482       | -104.544929      |
|             | 2900.00    | 10.48       | 239.47           | 2874.11     | -2749.99      | -243.00      | -151.48    | -256.84    | 0.00             | 1691995.84         | 3268606.74        | 39.729456       | -104.544985      |
|             | 3000.00    | 10.48       | 239.47           | 2972.44     | -2651.66      | -257.83      | -160.72    | -272.51    | 0.00             | 1691986.44         | 3268591.17        | 39.729431       | -104.545041      |
|             | 3100.00    | 10.48       | 239.47           | 3070.77     | -2553.33      | -272.66      | -169.97    | -288.19    | 0.00             | 1691977.03         | 3268575.59        | 39.729405       | -104.545097      |
|             | 3200.00    | 10.48       | 239.47           | 3169.10     | -2455.00      | -287.49      | -179.21    | -303.86    | 0.00             | 1691967.62         | 3268560.02        | 39.729380       | -104.545152      |
|             | 3300.00    | 10.48       | 239.47           | 3267.43     | -2356.67      | -302.32      | -188.45    | -319.54    | 0.00             | 1691958.21         | 3268544.44        | 39.729355       | -104.545208      |
|             | 3400.00    | 10.48       | 239.47           | 3365.76     | -2258.34      | -317.15      | -197.70    | -335.21    | 0.00             | 1691948.80         | 3268528.86        | 39.729329       | -104.545264      |
|             | 3500.00    | 10.48       | 239.47           | 3464.09     | -2160.01      | -331.98      | -206.94    | -350.89    | 0.00             | 1691939.39         | 3268513.29        | 39.729304       | -104.545320      |
|             | 3600.00    | 10.48       | 239.47           | 3562.42     | -2061.68      | -346.81      | -216.19    | -366.56    | 0.00             | 1691929.98         | 3268497.71        | 39.729279       | -104.545375      |
|             | 3700.00    | 10.48       | 239.47           | 3660.75     | -1963.35      | -361.64      | -225.43    | -382.23    | 0.00             | 1691920.58         | 3268482.14        | 39.729253       | -104.545431      |
|             | 3800.00    | 10.48       | 239.47           | 3759.08     | -1865.02      | -376.47      | -234.68    | -397.91    | 0.00             | 1691911.17         | 3268466.56        | 39.729228       | -104.545487      |
|             | 3900.00    | 10.48       | 239.47           | 3857.41     | -1766.69      | -391.30      | -243.92    | -413.58    | 0.00             | 1691901.76         | 3268450.98        | 39.729202       | -104.545542      |
|             | 4000.00    | 10.48       | 239.47           | 3955.74     | -1668.36      | -406.13      | -253.16    | -429.26    | 0.00             | 1691892.35         | 3268435.41        | 39.729177       | -104.545598      |
|             | 4100.00    | 10.48       | 239.47           | 4054.07     | -1570.03      | -420.96      | -262.41    | -444.93    | 0.00             | 1691882.94         | 3268419.83        | 39.729152       | -104.545654      |
|             | 4200.00    | 10.48       | 239.47           | 4152.40     | -1471.70      | -435.78      | -271.65    | -460.60    | 0.00             | 1691873.53         | 3268404.26        | 39.729126       | -104.545710      |
|             | 4300.00    | 10.48       | 239.47           | 4250.73     | -1373.37      | -450.61      | -280.90    | -476.28    | 0.00             | 1691864.12         | 3268388.68        | 39.729101       | -104.545765      |
|             | 4400.00    | 10.48       | 239.47           | 4349.06     | -1275.04      | -465.44      | -290.14    | -491.95    | 0.00             | 1691854.72         | 3268373.11        | 39.729075       | -104.545821      |
|             | 4500.00    | 10.48       | 239.47           | 4447.40     | -1176.70      | -480.27      | -299.38    | -507.63    | 0.00             | 1691845.31         | 3268357.53        | 39.729050       | -104.545877      |
|             | 4600.00    | 10.48       | 239.47           | 4545.73     | -1078.37      | -495.10      | -308.63    | -523.30    | 0.00             | 1691835.90         | 3268341.95        | 39.729025       | -104.545933      |
|             | 4700.00    | 10.48       | 239.47           | 4644.06     | -980.04       | -509.93      | -317.87    | -538.98    | 0.00             | 1691826.49         | 3268326.38        | 39.728999       | -104.545988      |
|             | 4800.00    | 10.48       | 239.47           | 4742.39     | -881.71       | -524.76      | -327.12    | -554.65    | 0.00             | 1691817.08         | 3268310.80        | 39.728974       | -104.546044      |
|             | 4900.00    | 10.48       | 239.47           | 4840.72     | -783.38       | -539.59      | -336.36    | -570.32    | 0.00             | 1691807.67         | 3268295.23        | 39.728949       | -104.546099      |
|             | 5000.00    | 10.48       | 239.47           | 4939.05     | -685.05       | -554.42      | -345.61    | -586.00    | 0.00             | 1691798.26         | 3268279.65        | 39.728923       | -104.546155      |
|             | 5100.00    | 10.48       | 239.47           | 5037.38     | -586.72       | -569.25      | -354.85    | -601.67    | 0.00             | 1691788.86         | 3268264.07        | 39.728898       | -104.546211      |
|             | 5200.00    | 10.48       | 239.47           | 5135.71     | -488.39       | -584.08      | -364.09    | -617.35    | 0.00             | 1691779.45         | 3268248.50        | 39.728872       | -104.546267      |
|             | 5300.00    | 10.48       | 239.47           | 5234.04     | -390.06       | -598.91      | -373.34    | -633.02    | 0.00             | 1691770.04         | 3268232.92        | 39.728847       | -104.546323      |
|             | 5400.00    | 10.48       | 239.47           | 5332.37     | -291.73       | -613.74      | -382.58    | -648.69    | 0.00             | 1691760.63         | 3268217.35        | 39.728822       | -104.546378      |
|             | 5500.00    | 10.48       | 239.47           | 5430.70     | -193.40       | -628.57      | -391.83    | -664.37    | 0.00             | 1691751.22         | 3268201.77        | 39.728796       | -104.546434      |
|             | 5600.00    | 10.48       | 239.47           | 5529.03     | -95.07        | -643.40      | -401.07    | -680.04    | 0.00             | 1691741.81         | 3268186.19        | 39.728771       | -104.546490      |
|             | 5700.00    | 10.48       | 239.47           | 5627.36     | 3.26          | -658.23      | -410.31    | -695.72    | 0.00             | 1691732.40         | 3268170.62        | 39.728746       | -104.546545      |
|             | 5800.00    | 10.48       | 239.47           | 5725.69     | 101.59        | -673.06      | -419.56    | -711.39    | 0.00             | 1691723.00         | 3268155.04        | 39.728720       | -104.546601      |
| 5900.00     | 10.48      | 239.47      | 5824.02          | 199.92      | -687.89       | -428.80      | -727.07    | 0.00       | 1691713.59       | 3268139.47         | 39.728695         | -104.546657     |                  |
| 6000.00     | 10.48      | 239.47      | 5922.35          | 298.25      | -702.72       | -438.05      | -742.74    | 0.00       | 1691704.18       | 3268123.89         | 39.728669         | -104.546713     |                  |
| 6100.00     | 10.48      | 239.47      | 6020.68          | 396.58      | -717.55       | -447.29      | -758.41    | 0.00       | 1691694.77       | 3268108.31         | 39.728644         | -104.546768     |                  |
| 6200.00     | 10.48      | 239.47      | 6119.01          | 494.91      | -732.38       | -456.54      | -774.09    | 0.00       | 1691685.36       | 3268092.74         | 39.728619         | -104.546824     |                  |
| 6300.00     | 10.48      | 239.47      | 6217.34          | 593.24      | -747.21       | -465.78      | -789.76    | 0.00       | 1691675.95       | 3268077.16         | 39.728593         | -104.546880     |                  |
| 6400.00     | 10.48      | 239.47      | 6315.67          | 691.57      | -762.04       | -475.02      | -805.44    | 0.00       | 1691666.54       | 3268061.59         | 39.728568         | -104.546936     |                  |
| 6500.00     | 10.48      | 239.47      | 6414.00          | 789.90      | -776.87       | -484.27      | -821.11    | 0.00       | 1691657.14       | 3268046.01         | 39.728543         | -104.546991     |                  |
| 6600.00     | 10.48      | 239.47      | 6512.33          | 888.23      | -791.70       | -493.51      | -836.78    | 0.00       | 1691647.73       | 3268030.43         | 39.728517         | -104.547047     |                  |
| 6700.00     | 10.48      | 239.47      | 6610.66          | 986.56      | -806.52       | -502.76      | -852.46    | 0.00       | 1691638.32       | 3268014.86         | 39.728492         | -104.547103     |                  |
| 6800.00     | 10.48      | 239.47      | 6708.99          | 1084.89     |               |              |            |            |                  |                    |                   |                 |                  |

| Comments | MD<br>(ft) | Incl<br>(°) | Azim True<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(°) | Longitude<br>(°) |
|----------|------------|-------------|------------------|-------------|---------------|--------------|------------|------------|------------------|--------------------|-------------------|-----------------|------------------|
|          | 8100.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | -67.39       | -610.81    | -119.87    | 0.00             | 1691537.99         | 3268748.54        | 39.728195       | -104.544498      |
|          | 8200.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 32.41        | -613.04    | -19.89     | 0.00             | 1691536.80         | 3268848.54        | 39.728189       | -104.544413      |
|          | 8300.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 132.21       | -615.28    | 80.08      | 0.00             | 1691535.62         | 3268948.53        | 39.728183       | -104.544378      |
|          | 8400.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 232.02       | -617.52    | 180.06     | 0.00             | 1691534.43         | 3269048.52        | 39.728177       | -104.544342      |
|          | 8500.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 331.82       | -619.75    | 280.03     | 0.00             | 1691533.25         | 3269148.51        | 39.728171       | -104.544306      |
|          | 8600.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 431.62       | -621.99    | 380.01     | 0.00             | 1691532.06         | 3269248.51        | 39.728164       | -104.544271      |
|          | 8700.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 531.42       | -624.22    | 479.98     | 0.00             | 1691530.88         | 3269348.50        | 39.728158       | -104.544236      |
|          | 8800.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 631.22       | -626.46    | 579.96     | 0.00             | 1691529.69         | 3269448.49        | 39.728152       | -104.544201      |
|          | 8900.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 731.03       | -628.70    | 679.93     | 0.00             | 1691528.51         | 3269548.48        | 39.728146       | -104.544165      |
|          | 9000.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 830.83       | -630.94    | 779.91     | 0.00             | 1691527.32         | 3269648.48        | 39.728140       | -104.544129      |
|          | 9100.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 930.63       | -633.17    | 879.88     | 0.00             | 1691526.14         | 3269748.47        | 39.728134       | -104.544094      |
|          | 9200.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 1030.43      | -635.41    | 979.86     | 0.00             | 1691524.96         | 3269848.46        | 39.728128       | -104.544058      |
|          | 9300.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 1130.24      | -637.65    | 1079.83    | 0.00             | 1691523.77         | 3269948.45        | 39.728121       | -104.544023      |
|          | 9400.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 1230.04      | -639.88    | 1179.81    | 0.00             | 1691522.59         | 3270048.44        | 39.728115       | -104.539977      |
|          | 9500.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 1329.84      | -642.12    | 1279.78    | 0.00             | 1691521.40         | 3270148.44        | 39.728109       | -104.539522      |
|          | 9600.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 1429.64      | -644.36    | 1379.76    | 0.00             | 1691520.22         | 3270248.43        | 39.728103       | -104.539167      |
|          | 9700.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 1529.44      | -646.59    | 1479.73    | 0.00             | 1691519.03         | 3270348.42        | 39.728097       | -104.538811      |
|          | 9800.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 1629.25      | -648.83    | 1579.71    | 0.00             | 1691517.85         | 3270448.41        | 39.728091       | -104.538456      |
|          | 9900.00    | 90.00       | 91.28            | 7550.00     | 1925.90       | 1729.05      | -651.07    | 1679.68    | 0.00             | 1691516.66         | 3270548.41        | 39.728085       | -104.538100      |
|          | 10000.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 1828.85      | -653.30    | 1779.66    | 0.00             | 1691515.48         | 3270648.40        | 39.728078       | -104.537745      |
|          | 10100.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 1928.65      | -655.54    | 1879.63    | 0.00             | 1691514.29         | 3270748.39        | 39.728072       | -104.537389      |
|          | 10200.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 2028.45      | -657.78    | 1979.61    | 0.00             | 1691513.11         | 3270848.38        | 39.728066       | -104.537034      |
|          | 10300.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 2128.26      | -660.01    | 2079.58    | 0.00             | 1691511.92         | 3270948.36        | 39.728060       | -104.536678      |
|          | 10400.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 2228.06      | -662.25    | 2179.56    | 0.00             | 1691510.74         | 3271048.37        | 39.728054       | -104.536323      |
|          | 10500.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 2327.86      | -664.49    | 2279.53    | 0.00             | 1691509.56         | 3271148.36        | 39.728048       | -104.535968      |
|          | 10600.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 2427.66      | -666.72    | 2379.51    | 0.00             | 1691508.37         | 3271248.35        | 39.728041       | -104.535612      |
|          | 10700.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 2527.46      | -668.96    | 2479.48    | 0.00             | 1691507.19         | 3271348.35        | 39.728035       | -104.535257      |
|          | 10800.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 2627.27      | -671.20    | 2579.46    | 0.00             | 1691506.00         | 3271448.34        | 39.728029       | -104.534901      |
|          | 10900.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 2727.07      | -673.43    | 2679.43    | 0.00             | 1691504.82         | 3271548.33        | 39.728023       | -104.534546      |
|          | 11000.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 2826.87      | -675.67    | 2779.41    | 0.00             | 1691503.63         | 3271648.32        | 39.728017       | -104.534191      |
|          | 11100.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 2926.67      | -677.91    | 2879.38    | 0.00             | 1691502.45         | 3271748.32        | 39.728011       | -104.533835      |
|          | 11200.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 3026.47      | -680.14    | 2979.36    | 0.00             | 1691501.26         | 3271848.31        | 39.728004       | -104.533480      |
|          | 11300.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 3126.28      | -682.38    | 3079.33    | 0.00             | 1691500.08         | 3271948.30        | 39.727998       | -104.533124      |
|          | 11400.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 3226.08      | -684.62    | 3179.31    | 0.00             | 1691498.89         | 3272048.29        | 39.727992       | -104.532769      |
|          | 11500.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 3325.88      | -686.85    | 3279.28    | 0.00             | 1691497.71         | 3272148.28        | 39.727986       | -104.532413      |
|          | 11600.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 3425.68      | -689.09    | 3379.26    | 0.00             | 1691496.52         | 3272248.28        | 39.727980       | -104.532058      |
|          | 11700.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 3525.48      | -691.33    | 3479.23    | 0.00             | 1691495.34         | 3272348.27        | 39.727974       | -104.531702      |
|          | 11800.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 3625.29      | -693.56    | 3579.21    | 0.00             | 1691494.16         | 3272448.26        | 39.727967       | -104.531347      |
|          | 11900.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 3725.09      | -695.80    | 3679.18    | 0.00             | 1691492.97         | 3272548.25        | 39.727961       | -104.530991      |
|          | 12000.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 3824.89      | -698.04    | 3779.16    | 0.00             | 1691491.79         | 3272648.25        | 39.727955       | -104.530636      |
|          | 12100.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 3924.69      | -700.27    | 3879.13    | 0.00             | 1691490.60         | 3272748.24        | 39.727949       | -104.530281      |
|          | 12200.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 4024.49      | -702.51    | 3979.11    | 0.00             | 1691489.42         | 3272848.23        | 39.727943       | -104.529925      |
|          | 12300.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 4124.30      | -704.75    | 4079.08    | 0.00             | 1691488.23         | 3272948.22        | 39.727936       | -104.529570      |
|          | 12400.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 4224.10      | -706.98    | 4179.06    | 0.00             | 1691487.05         | 3273048.22        | 39.727930       | -104.529214      |
|          | 12500.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 4323.90      | -709.22    | 4279.03    | 0.00             | 1691485.86         | 3273148.21        | 39.727924       | -104.528859      |
|          | 12600.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 4423.70      | -711.46    | 4379.01    | 0.00             | 1691484.68         | 3273248.20        | 39.727918       | -104.528503      |
|          | 12700.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 4523.50      | -713.69    | 4478.98    | 0.00             | 1691483.49         | 3273348.19        | 39.727912       | -104.528148      |
|          | 12800.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 4623.31      | -715.93    | 4578.96    | 0.00             | 1691482.31         | 3273448.19        | 39.727905       | -104.527793      |
|          | 12900.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 4723.11      | -718.17    | 4678.93    | 0.00             | 1691481.12         | 3273548.18        | 39.727899       | -104.527437      |
|          | 13000.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 4822.91      | -720.40    | 4778.91    | 0.00             | 1691479.94         | 3273648.17        | 39.727893       | -104.527082      |
|          | 13100.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 4922.71      | -722.64    | 4878.88    | 0.00             | 1691478.76         | 3273748.16        | 39.727887       | -104.526726      |
|          | 13200.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 5022.51      | -724.88    | 4978.86    | 0.00             | 1691477.57         | 3273848.16        | 39.727881       | -104.526371      |
|          | 13300.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 5122.32      | -727.11    | 5078.83    | 0.00             | 1691476.39         | 3273948.15        | 39.727875       | -104.526015      |
|          | 13400.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 5222.12      | -729.35    | 5178.81    | 0.00             | 1691475.20         | 3274048.14        | 39.727868       | -104.525660      |
|          | 13500.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 5321.92      | -731.59    | 5278.78    | 0.00             | 1691474.02         | 3274148.13        | 39.727862       | -104.525304      |
|          | 13600.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 5421.72      | -733.82    | 5378.76    | 0.00             | 1691472.83         | 3274248.13        | 39.727856       | -104.524949      |
|          | 13700.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 5521.52      | -736.06    | 5478.73    | 0.00             | 1691471.65         | 3274348.12        | 39.727850       | -104.524594      |
|          | 13800.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 5621.33      | -738.30    | 5578.71    | 0.00             | 1691470.46         | 3274448.11        | 39.727844       | -104.524238      |
|          | 13900.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 5721.13      | -740.53    | 5678.68    | 0.00             | 1691469.28         | 3274548.10        | 39.727837       | -104.523883      |
|          | 14000.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 5820.93      | -742.77    | 5778.66    | 0.00             | 1691468.09         | 3274648.09        | 39.727831       | -104.523527      |
|          | 14100.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 5920.73      | -745.01    | 5878.63    | 0.00             | 1691466.91         | 3274748.09        | 39.727825       | -104.523172      |
|          | 14200.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 6020.53      | -747.24    | 5978.61    | 0.00             | 1691465.72         | 3274848.08        | 39.727819       | -104.522816      |
|          | 14300.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 6120.34      | -749.48    | 6078.58    | 0.00             | 1691464.54         | 3274948.07        | 39.727813       | -104.522461      |
|          | 14400.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 6220.14      | -751.72    | 6178.56    | 0.00             | 1691463.36         | 3275048.06        | 39.727806       | -104.522106      |
|          | 14500.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 6319.94      | -753.95    | 6278.53    | 0.00             | 1691462.17         | 3275148.06        | 39.727800       | -104.521750      |
|          | 14600.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 6419.74      | -756.19    | 6378.51    | 0.00             | 1691460.99         | 3275248.05        | 39.727794       | -104.521395      |
|          | 14700.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 6519.54      | -758.43    | 6478.48    | 0.00             | 1691459.80         | 3275348.04        | 39.727788       | -104.521039      |
|          | 14800.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 6619.35      | -760.66    | 6578.46    | 0.00             | 1691458.62         | 3275448.03        | 39.727781       | -104.520684      |
|          | 14900.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 6719.15      | -762.90    | 6678.43    | 0.00             | 1691457.43         | 3275548.03        | 39.727775       | -104.520328      |
|          | 15000.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 6818.95      | -765.14    | 6778.41    | 0.00             | 1691456.25         | 3275648.02        | 39.727769       | -104.519973      |
|          | 15100.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 6918.75      | -767.37    | 6878.38    | 0.00             | 1691455.06         | 3275748.01        | 39.727763       | -104.519618      |
|          | 15200.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 7018.55      | -769.61    | 6978.36    | 0.00             | 1691453.88         | 3275848.00        | 39.727757       | -104.519262      |
|          | 15300.00   | 90.00       | 91.28            | 7550.00     | 1925.90       | 7118.36      | -771.8     |            |                  |                    |                   |                 |                  |

| Comments | MD<br>(ft) | Incl<br>(°) | Azim True<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft)     | Northing<br>(ftUS) | Easting<br>(ftUS)                                | Latitude<br>(°) | Longitude<br>(°) |
|----------|------------|-------------|------------------|-------------|---------------|--------------|------------|------------|----------------------|--------------------|--|-----------------|------------------|
|          |            | 1           | 2200.000         | 17938.923   | 1/100.000     | 8.500        | 5.500      |            | NAL_MWD_PLUS_0.5_DEG |                    | Original Hole / Arkansas 4-65 3-2<br>3DH Plan #1 |                 |                  |

## Arkansas 4-65 3-2 3DH Plan #1 Anti-Collision Summary Report

**Analysis Date-24hr Time:** July 21, 2021 - 14:59  
**Client:** Crestone Peak Resources  
**Field:** CO, Arapahoe County (NAD 83 CZ)

**Analysis Method:** 3D Least Distance  
**Reference Trajectory:** Arkansas 4-65 3-2 3DH Plan #1 (Def Plan)  
**Depth Interval:** Every 10.00 Measured Depth (ft)

**Structure:** Crestone Peak 03-04S-64W (Arkansas 4-65 3-2 Pad)  
**Slot:** Arkansas 4-65 3-2 3DH  
**Well:** Arkansas 4-65 3-2 3DH  
**Borehole:** Original Hole  
**Scan MD Range:** 0.00ft - 17938.92ft

**Rule Set:** NAL Procedure: D&M AntiCollision Standard S002  
**Min Pts:** All local minima indicated.  
**Version / Patch:** 2.10.825.0  
**Database \ Project:** localhost\drilling-Colorado

**Trajectory Error Model:** ISCSA0 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

## Offset Trajectories Summary

## Offset Selection Criteria

Wellhead distance scan:  
 Selection filters:  
 Not performed!  
 Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans  
 - All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

| Offset Trajectory | Separation |          |          | Allow<br>Dev. (ft) | Sep.<br>Fact. | Controlling<br>Rule | Reference Trajectory |          | Risk Level |       |       | Alert | Status |
|-------------------|------------|----------|----------|--------------------|---------------|---------------------|----------------------|----------|------------|-------|-------|-------|--------|
|                   | Ct-Ct (ft) | MAS (ft) | EOU (ft) |                    |               |                     | MD (ft)              | TVD (ft) | Alert      | Minor | Major |       |        |

Results highlighted: Sep-Factor separation <= 1.50 ft

Arkansas 4-65 3-2 3CH Plan #1 (Def Plan) Warning Alert

|         |        |         |         |           |                |          |         |              |  |  |  |             |  |
|---------|--------|---------|---------|-----------|----------------|----------|---------|--------------|--|--|--|-------------|--|
| 40.07   | 32.25  | 39.09   | 7.82    | N/A       | MAS = 9.83 (m) | 0.00     | 0.00    | CI<15m<15.00 |  |  |  | Enter Alert |  |
| 40.07   | 32.25  | 39.09   | 7.82    | 175930.83 | MAS = 9.83 (m) | 13.00    | 13.00   |              |  |  |  | WRP         |  |
| 40.07   | 32.25  | 33.22   | 7.82    | 6.66      | MAS = 9.83 (m) | 990.00   | 990.00  |              |  |  |  | MinPts      |  |
| 40.09   | 32.25  | 33.14   | 7.84    | 6.56      | MAS = 9.83 (m) | 1010.00  | 1010.00 |              |  |  |  | MINPT-O-EOU |  |
| 40.72   | 32.25  | 33.61   | 8.48    | 6.49      | MAS = 9.83 (m) | 1060.00  | 1060.00 |              |  |  |  | MinPt-O-SF  |  |
| 48.85   | 32.25  | 41.48   | 16.60   | 7.50      | MAS = 9.83 (m) | 1220.00  | 1219.78 | CI<15m>15.00 |  |  |  | Exit Alert  |  |
| 1109.24 | 71.02  | 1061.56 | 1038.22 | 23.74     | OSF1.50        | 6818.27  | 6726.96 |              |  |  |  | MinPt-O-SF  |  |
| 1178.03 | 355.49 | 940.71  | 822.54  | 4.98      | OSF1.50        | 12620.00 | 7550.00 | OSF<5.00     |  |  |  | Enter Alert |  |
| 932.55  | 464.66 | 622.45  | 467.90  | 3.01      | OSF1.50        | 14130.00 | 7550.00 |              |  |  |  | MinPt-CICt  |  |
| 932.70  | 744.88 | 435.70  | 187.82  | 1.88      | OSF1.50        | 17938.92 | 7550.00 |              |  |  |  | MinPts      |  |

Arkansas 4-65 3-2 1BH Plan #1 (Def Plan) Pass

|         |        |         |         |           |                 |          |         |  |  |  |  |             |  |
|---------|--------|---------|---------|-----------|-----------------|----------|---------|--|--|--|--|-------------|--|
| 80.14   | 32.81  | 79.16   | 47.33   | N/A       | MAS = 10.00 (m) | 0.00     | 0.00    |  |  |  |  | Surface     |  |
| 80.14   | 32.81  | 79.16   | 47.33   | 178147.09 | MAS = 10.00 (m) | 13.00    | 13.00   |  |  |  |  | WRP         |  |
| 80.14   | 32.81  | 76.43   | 47.33   | 29.05     | MAS = 10.00 (m) | 490.00   | 490.00  |  |  |  |  | MinPts      |  |
| 80.20   | 32.81  | 76.31   | 47.39   | 27.23     | MAS = 10.00 (m) | 520.00   | 520.00  |  |  |  |  | MINPT-O-EOU |  |
| 103.51  | 32.81  | 97.36   | 70.70   | 19.87     | MAS = 10.00 (m) | 890.00   | 890.00  |  |  |  |  | MinPt-O-SF  |  |
| 2110.44 | 71.55  | 2062.41 | 2038.89 | 44.84     | OSF1.50         | 6818.27  | 6726.96 |  |  |  |  | MinPt-O-SF  |  |
| 2494.86 | 324.61 | 2278.12 | 2170.25 | 11.56     | OSF1.50         | 12210.00 | 7550.00 |  |  |  |  | MINPT-O-EOU |  |
| 2499.68 | 330.34 | 2279.12 | 2169.34 | 11.38     | OSF1.50         | 12310.00 | 7550.00 |  |  |  |  | MinPt-O-ADP |  |
| 2757.41 | 747.01 | 2259.07 | 2010.39 | 5.54      | OSF1.50         | 17938.92 | 7550.00 |  |  |  |  | MinPts      |  |

Arkansas 4-65 3-2 1AH Plan #1 (Def Plan) Pass

|         |        |         |         |           |                 |          |         |  |  |  |  |             |  |
|---------|--------|---------|---------|-----------|-----------------|----------|---------|--|--|--|--|-------------|--|
| 119.85  | 32.81  | 118.86  | 87.04   | N/A       | MAS = 10.00 (m) | 0.00     | 0.00    |  |  |  |  | Surface     |  |
| 119.85  | 32.81  | 118.86  | 87.04   | 535014.94 | MAS = 10.00 (m) | 13.00    | 13.00   |  |  |  |  | WRP         |  |
| 119.85  | 32.81  | 116.14  | 87.04   | 43.63     | MAS = 10.00 (m) | 490.00   | 490.00  |  |  |  |  | MinPts      |  |
| 119.91  | 32.81  | 116.02  | 87.10   | 40.88     | MAS = 10.00 (m) | 520.00   | 520.00  |  |  |  |  | MINPT-O-EOU |  |
| 159.68  | 32.81  | 152.85  | 126.87  | 27.12     | MAS = 10.00 (m) | 1000.00  | 1000.00 |  |  |  |  | MinPt-O-SF  |  |
| 2816.12 | 71.28  | 2768.27 | 2744.84 | 60.07     | OSF1.50         | 6818.27  | 6726.96 |  |  |  |  | MinPt-O-SF  |  |
| 3340.19 | 65.03  | 3296.51 | 3275.16 | 78.21     | OSF1.50         | 8270.00  | 7550.00 |  |  |  |  | MinPt-O-SF  |  |
| 3498.01 | 750.04 | 2997.66 | 2747.97 | 7.00      | OSF1.50         | 17938.92 | 7550.00 |  |  |  |  | MinPts      |  |

B&D Land 4-65 4-5 4BH GYRO+MWD 0' to 15341' - A (Def Survey) Pass

|          |       |          |          |           |                 |          |         |  |  |  |  |             |  |
|----------|-------|----------|----------|-----------|-----------------|----------|---------|--|--|--|--|-------------|--|
| 1433.53  | 32.81 | 1431.72  | 1400.73  | N/A       | MAS = 10.00 (m) | 0.00     | 0.00    |  |  |  |  | MinPts      |  |
| 1433.54  | 32.81 | 1431.71  | 1400.73  | 116138.17 | MAS = 10.00 (m) | 13.00    | 13.00   |  |  |  |  | WRP         |  |
| 1433.62  | 32.81 | 1431.65  | 1400.81  | 9424.43   | MAS = 10.00 (m) | 60.00    | 60.00   |  |  |  |  | MINPT-O-EOU |  |
| 1434.17  | 32.81 | 1431.62  | 1401.36  | 1958.95   | MAS = 10.00 (m) | 170.00   | 170.00  |  |  |  |  | MINPT-O-EOU |  |
| 1437.30  | 32.81 | 1431.35  | 1404.49  | 346.91    | MAS = 10.00 (m) | 910.00   | 910.00  |  |  |  |  | MINPT-O-EOU |  |
| 1436.63  | 32.81 | 1430.06  | 1403.82  | 301.50    | MAS = 10.00 (m) | 1100.00  | 1099.98 |  |  |  |  | MinPt-O-SF  |  |
| 596.10   | 53.98 | 559.40   | 542.12   | 17.18     | OSF1.50         | 7040.00  | 6946.76 |  |  |  |  | MinPt-O-SF  |  |
| 573.10   | 48.82 | 539.76   | 524.28   | 18.43     | OSF1.50         | 7250.00  | 7145.66 |  |  |  |  | MinPt-O-ADP |  |
| 572.81   | 48.48 | 539.70   | 524.33   | 18.56     | OSF1.50         | 7260.00  | 7154.60 |  |  |  |  | MINPT-O-EOU |  |
| 572.62   | 47.78 | 539.97   | 524.85   | 18.85     | OSF1.50         | 7280.00  | 7172.30 |  |  |  |  | MinPt-CICt  |  |
| 10527.93 | 66.13 | 10483.31 | 10461.80 | 244.71    | OSF1.50         | 17938.92 | 7550.00 |  |  |  |  | TD          |  |

Cline 4-64 2 1H GYRO+MWD 0' TO 11240' - A (Def Survey) Pass

|         |        |         |         |        |         |          |         |  |  |  |  |             |  |
|---------|--------|---------|---------|--------|---------|----------|---------|--|--|--|--|-------------|--|
| 9427.22 | 87.38  | 9368.36 | 9339.84 | 165.22 | OSF1.50 | 0.00     | 0.00    |  |  |  |  | Surface     |  |
| 9416.96 | 87.55  | 9357.99 | 9329.42 | 164.72 | OSF1.50 | 13.00    | 13.00   |  |  |  |  | WRP         |  |
| 6773.50 | 104.56 | 6702.25 | 6668.95 | 101.62 | OSF1.50 | 6340.00  | 6256.67 |  |  |  |  | MinPt-CICt  |  |
| 6773.53 | 104.65 | 6702.21 | 6668.88 | 101.53 | OSF1.50 | 6360.00  | 6276.34 |  |  |  |  | MINPT-O-EOU |  |
| 6773.57 | 104.70 | 6702.22 | 6668.87 | 101.48 | OSF1.50 | 6370.00  | 6286.17 |  |  |  |  | MinPt-O-ADP |  |
| 1917.54 | 462.12 | 1608.92 | 1455.41 | 6.24   | OSF1.50 | 13850.00 | 7550.00 |  |  |  |  | MinPt-CICt  |  |
| 1917.59 | 462.39 | 1608.79 | 1455.19 | 6.24   | OSF1.50 | 13860.00 | 7550.00 |  |  |  |  | MINPT-O-EOU |  |
| 1917.68 | 462.51 | 1608.81 | 1455.17 | 6.24   | OSF1.50 | 13870.00 | 7550.00 |  |  |  |  | MinPts      |  |
| 1911.29 | 446.29 | 1613.23 | 1465.00 | 6.44   | OSF1.50 | 14780.00 | 7550.00 |  |  |  |  | MinPts      |  |
| 1910.23 | 445.38 | 1612.78 | 1464.85 | 6.45   | OSF1.50 | 14960.00 | 7550.00 |  |  |  |  | MinPts      |  |
| 1910.19 | 445.33 | 1612.77 | 1464.86 | 6.45   | OSF1.50 | 14970.00 | 7550.00 |  |  |  |  | MINPT-O-EOU |  |
| 1907.54 | 445.78 | 1609.82 | 1461.76 | 6.44   | OSF1.50 | 15240.00 | 7550.00 |  |  |  |  | MinPt-CICt  |  |
| 1907.71 | 446.30 | 1609.64 | 1461.41 | 6.43   | OSF1.50 | 15290.00 | 7550.00 |  |  |  |  | MINPT-O-EOU |  |
| 1908.11 | 446.77 | 1609.72 | 1461.33 | 6.42   | OSF1.50 | 15340.00 | 7550.00 |  |  |  |  | MinPt-O-ADP |  |
| 1908.57 | 447.12 | 1609.95 | 1461.45 | 6.42   | OSF1.50 | 15380.00 | 7550.00 |  |  |  |  | MinPt-O-SF  |  |
| 1908.73 | 447.06 | 1610.16 | 1461.67 | 6.42   | OSF1.50 | 15460.00 | 7550.00 |  |  |  |  | MinPt-CICt  |  |
| 1909.36 | 448.80 | 1609.63 | 1460.56 | 6.40   | OSF1.50 | 15590.00 | 7550.00 |  |  |  |  | MINPT-O-EOU |  |
| 1910.74 | 450.46 | 1609.90 | 1460.28 | 6.38   | OSF1.50 | 15700.00 | 7550.00 |  |  |  |  | MinPt-O-ADP |  |
| 1924.05 | 464.96 | 1613.54 | 1459.09 | 6.22   | OSF1.50 | 16440.00 | 7550.00 |  |  |  |  | MinPt-CICt  |  |
| 1927.27 | 484.76 | 1603.57 | 1442.52 | 5.98   | OSF1.50 | 17030.00 | 7550.00 |  |  |  |  | MinPt-CICt  |  |
| 1918.14 | 503.79 | 1581.75 | 1414.35 | 5.72   | OSF1.50 | 17480.00 | 7550.00 |  |  |  |  | MinPt-CICt  |  |
| 1921.20 | 511.35 | 1579.77 | 1409.85 | 5.65   | OSF1.50 | 17670.00 | 7550.00 |  |  |  |  | MINPT-O-EOU |  |
| 1922.41 | 512.75 | 1580.04 | 1409.65 | 5.64   | OSF1.50 | 17710.00 | 7550.00 |  |  |  |  | MinPt-O-ADP |  |
| 1931.19 | 516.99 | 1586.00 | 1414.20 | 5.62   | OSF1.50 | 17860.00 | 7550.00 |  |  |  |  | MinPt-O-SF  |  |
| 1933.79 | 517.70 | 1588.13 | 1416.10 | 5.62   | OSF1.50 | 17890.00 | 7550.00 |  |  |  |  | MinPt-O-SF  |  |
| 1938.45 | 518.61 | 1592.17 | 1419.84 | 5.62   | OSF1.50 | 17938.92 | 7550.00 |  |  |  |  | TD          |  |

...Arkansas 4-65 3-2 3DH\Original Hole\Arkansas 4-65 3-2 3DH Plan #1

| Offset Trajectory | Separation |          |          | Allow<br>Dev. (ft) | Sep.<br>Fact. | Controlling<br>Rule | Reference Trajectory |          | Risk Level |       |       | Alert | Status |
|-------------------|------------|----------|----------|--------------------|---------------|---------------------|----------------------|----------|------------|-------|-------|-------|--------|
|                   | Ct-Ct (ft) | MAS (ft) | EOU (ft) |                    |               |                     | MD (ft)              | TVD (ft) | Alert      | Minor | Major |       |        |