

Gunderson 20-06W
Mesa County, Colorado
DRILLING PROGNOSIS

Surface Location

NE/4 of NW/4
 Section 20 T9S R93W 6th P.M.
 Graded Elevation 7146' MSL
 RKB Elevation 7176' (30' KB H&P 522)

SHL Geographical Coordinates (NAD-83)

Slot B-6
 Latitude 39.266836000° N
 Longitude 107.795317000° W

Directional Target

50-ft radius cylinder centered on BHL
 From estimated top of gas (TOG) to TD

BHL Geographical Coordinates (NAD-83)

Latitude 39.266342000° N
 Longitude 107.797695000° W

| Casing OD | Hole Size | Weight | Condition | Grade | Coupling | Setting Depth (MD) | Top of Cement |
|-----------|-----------|----------|-----------|---------|----------|--------------------|---------------|
| 16" | 26" | ¾" WT | New | - | Welded | 60-ft BGL | surface |
| 8-5/8" | 11" | 24 ppf | New | J-55 | STC | 1530-ft | surface |
| 4-1/2" | 7-7/8" | 11.6 ppf | New | Next-80 | LTC | 7588-ft | 1022-ft |

Cementing Details

8-5/8" Surface Casing

Halliburton Name
 Type
 Additives
 Planned top
 Density (ppg)
 Yield (cf/sx)
 Volume (sx)
 Volume (bbls)

Lead

VariCem GJ5
 Extended
 Pol-E-Flake
 Surface
 12.30
 2.45
 187
 82

Tail

VariCem GJ5
 Extended
 Pol-E-Flake
 1000-ft
 12.80
 2.18
 109
 42

4-1/2" Production Casing

Halliburton Name
 Type
 Additives
 Planned top
 Density (ppg)
 Yield (cf/sx)
 Volume (sx)
 Volume (bbls)

Lead

NeoCem GJ2
 II/V
 Pol-E-Flake
 1030-ft
 12.50
 1.94
 752
 260

Tail

ThermaCem GJ2
 50:50 Poz:G
 Pol-E-Flake, Kol-Seal
 5338-ft
 13.30
 1.79
 445
 142

Formation Tops (Sd = Sand; Sh = Shale; SW = salt water)

| Name | MD (ft) | TVD (ft) | Description | Expected Pore Pressure (ppg) | Planned Mud Weight (ppg) |
|-----------------|---------|----------|-------------------------------|------------------------------|--------------------------|
| Wasatch | - | G.L. | Sd/Sh; freshwater to 500' | 8.3 | 8.5 – 8.8 |
| 'G' Sand | 2461 | 2441 | Sd/Sh; gas | 8.8 | 9.0 - 9.3 |
| Williams Fork | 4581 | 4541 | Sd/Sh; gas & SW | 8.8 | 9.0 - 9.3 |
| Top of Gas | 5538 | 5491 | Sd/Sh; gas & SW | 8.8 - 9.2 | 9.0 - 9.5 |
| Cameo | 6638 | 6591 | Sd/Sh/Coals; gas & condensate | 8.8 - 9.2 | 9.0 - 9.5 |
| Base Cameo Coal | 7298 | 7251 | Sd/Sh/Coals; gas & condensate | 8.8 - 9.2 | 9.0 - 9.5 |
| Rollins | 7338 | 7291 | Sd/Sh; gas, condensate & SW | 9.0 - 9.5 | 9.3 - 9.7 |
| Total Depth | 7588 | 7541 | Sd/Sh; gas, condensate & SW | 9.0 - 9.5 | 9.5 - 9.7 |

BOP : 11" 5M Double Gate & 11" 5M Annular Preventer, Rotating Head