

**Nichols 0994-24-06W**  
**Mesa County, Colorado**  
**DRILLING PROGNOSIS**

**Surface Location**

SW/4 of NE/4  
 Section 24 T9S R94W 6<sup>th</sup> P.M.  
 Graded Elevation 7137' MSL  
 RKB Elevation 7167' (30' KB H&P 522)

**SHL Geographical Coordinates (NAD-83)**

Slot B-9  
 Latitude 39.264597000° N  
 Longitude 107.830633000° W

**Directional Target**

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

**BHL Geographical Coordinates (NAD-83)**

Latitude 39.265811000° N  
 Longitude 107.835243000° 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      | 7563-ft            | 1030-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  
 197  
 86

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  
 784  
 271

Tail

ThermaCem GJ2  
 50:50 Poz:G  
 Pol-E-Flake, Kol-Seal  
 5513-ft  
 13.30  
 1.73  
 419  
 129

**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        | 2432    | 2362     | Sd/Sh; gas                    | 8.8                          | 9.0 - 9.3                |
| Williams Fork   | 4265    | 4112     | Sd/Sh; gas & SW               | 8.8                          | 9.0 - 9.3                |
| Top of Gas      | 5713    | 5512     | Sd/Sh; gas & SW               | 8.8 - 9.2                    | 9.0 - 9.5                |
| Cameo           | 6613    | 6412     | Sd/Sh/Coals; gas & condensate | 8.8 - 9.2                    | 9.0 - 9.5                |
| Base Cameo Coal | 7273    | 7072     | Sd/Sh/Coals; gas & condensate | 8.8 - 9.2                    | 9.0 - 9.5                |
| Rollins         | 7313    | 7112     | Sd/Sh; gas, condensate & SW   | 9.0 - 9.5                    | 9.3 - 9.7                |
| Total Depth     | 7563    | 7362     | Sd/Sh; gas, condensate & SW   | 9.0 - 9.5                    | 9.5 - 9.7                |

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