

**Piceance Federal 28-02M  
Mesa County, Colorado  
DRILLING PROGNOSIS**

**Surface Location**

SW/4 of NW/4  
Section 28 T9S R93W 6<sup>th</sup> P.M.  
Graded Elevation 7556' MSL  
RKB Elevation 7578' (22' KB Patterson 306)

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

Slot A-5  
Latitude 39.251061111° N  
Longitude 107.779508330° W

**Directional Target**

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

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

Latitude 39.254269444° N  
Longitude 107.774516670° W

Casing OD	Hole Size	Weight	Grade	Coupling	Setting Depth (MD)	Top of Cement
16"	Conductor	¾" WT	-	Welded	40-ft BGL	Grouted
8-5/8"	11"	24 ppf	J-55	STC	1586-ft	surface
4-1/2"	7-7/8"	11.6 ppf	I-80	LTC	8303-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  
192  
84

Tail

VariCem GJ5  
Extended  
Pol-E-Flake  
1000-ft  
12.80  
2.17  
114  
44

4-1/2" Production Casing

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

Lead

VersaCem  
50:50 Poz:G  
Pol-E-Flake, Kol-Seal  
1022-ft  
12.80  
1.75  
848  
265

Tail

ExpandaCem  
50:50 Poz:G  
Silica Flour, Pol-E-Flake, Kol-Seal  
5403-ft  
13.30  
1.89  
545  
183

**Formation Tops**

Name	MD (ft)	TVD (ft)	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Wasatch	-	Ground level		
'G' Sand	3091	2866	8.8	9.0 - 9.3
Williams Fork	5101	4716	8.8	9.0 - 9.3
Top of Gas	5603	5216	8.8 - 9.2	9.0 - 9.5
Cameo	7403	7016	8.8 - 9.2	9.0 - 9.5
Base Cameo Coal	8061	7674	8.8 - 9.2	9.0 - 9.5
Rollins	8103	7716	9.0 - 9.5	9.3 - 9.7
Total Depth	8303	7916	9.0 - 9.5	9.5 - 9.7

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