

Piceance 28-09M
Mesa County, Colorado
DRILLING PROGNOSIS

Surface Location

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

SHL Geographical Coordinates (NAD-83)

Slot A-10
 Latitude 39.250911111° N
 Longitude 107.779352780° W

Directional Target

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

BHL Geographical Coordinates (NAD-83)

Latitude 39.249466667° N
 Longitude 107.774655560° 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	1566-ft	surface
4-1/2"	7-7/8"	11.6 ppf	I-80	LTC	8115-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
 810
 253

Tail

ExpandaCem
 50:50 Poz:G
 Silica Flour, Pol-E-Flake, Kol-Seal
 5215-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	2961	2828	8.8	9.0 - 9.3
Williams Fork	4914	4678	8.8	9.0 - 9.3
Top of Gas	5415	5178	8.8 - 9.2	9.0 - 9.5
Cameo	7215	6978	8.8 - 9.2	9.0 - 9.5
Base Cameo Coal	7873	7636	8.8 - 9.2	9.0 - 9.5
Rollins	7915	7678	9.0 - 9.5	9.3 - 9.7
Total Depth	8115	7878	9.0 - 9.5	9.5 - 9.7

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