

# Bruton 30-21E Mesa County, Colorado DRILLING PROGNOSIS

## Surface Location

NW/4 of SE/4  
Section 30 T9S R93W 6<sup>th</sup> P.M.  
Graded Elevation 7643' MSL  
RKB Elevation 7665' (22' KB Patterson 306)

## SHL Geographical Coordinates (NAD-83)

Slot A-4  
Latitude 39.248008333° N  
Longitude 107.808852778° W

## Directional Target

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

## BHL Geographical Coordinates (NAD-83)

Latitude 39.241258333° N  
Longitude 107.805505556° W

Casing OD	Hole Size	Weight	Condition	Grade	Coupling	Setting Depth (MD)	Top of Cement
16"	26"	¾" WT	New	-	Welded	40-ft BGL	surface
8-5/8"	11"	24 ppf	New	J-55	STC	1626-ft	surface
4-1/2"	7-7/8"	11.6 ppf	New	I-80	LTC	8328-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  
992  
310

### Tail

ExpandaCem  
50:50 Poz:G  
Silica Flour, Pol-E-Flake, Kol-Seal  
6128-ft  
13.30  
1.89  
414  
139

## 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	2880	2583	Sd/Sh; gas	8.8	9.0 - 9.3
Williams Fork	5066	4433	Sd/Sh; gas & SW	8.8	9.0 - 9.3
Top of Gas	6328	5633	Sd/Sh; gas & SW	8.8 - 9.2	9.0 - 9.5
Cameo	7428	6733	Sd/Sh/Coals; gas & condensate	8.8 - 9.2	9.0 - 9.5
Base Cameo Coal	8086	7391	Sd/Sh/Coals; gas & condensate	8.8 - 9.2	9.0 - 9.5
Rollins	8128	7433	Sd/Sh; gas, condensate & SW	9.0 - 9.5	9.3 - 9.7
Total Depth	8328	7633	Sd/Sh; gas, condensate & SW	9.0 - 9.5	9.5 - 9.7

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