

**Nichols 0994-13-18W
Mesa County, Colorado
DRILLING PROGNOSIS**

Surface Location

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

SHL Geographical Coordinates (NAD-83)

Slot B-1
Latitude 39.264747000° N
Longitude 107.830550000° W

Directional Target

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

BHL Geographical Coordinates (NAD-83)

Latitude 39.272106000° N
Longitude 107.835120000° 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	8320-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
920
318

Tail

ThermaCem GJ2
50:50 Poz:G
Pol-E-Flake, Kol-Seal
6270-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	2764	2435	Sd/Sh; gas	8.8	9.0 - 9.3
Williams Fork	4927	4185	Sd/Sh; gas & SW	8.8	9.0 - 9.3
Top of Gas	6470	5585	Sd/Sh; gas & SW	8.8 - 9.2	9.0 - 9.5
Cameo	7370	6485	Sd/Sh/Coals; gas & condensate	8.8 - 9.2	9.0 - 9.5
Base Cameo Coal	8030	7145	Sd/Sh/Coals; gas & condensate	8.8 - 9.2	9.0 - 9.5
Rollins	8070	7185	Sd/Sh; gas, condensate & SW	9.0 - 9.5	9.3 - 9.7
Total Depth	8320	7435	Sd/Sh; gas, condensate & SW	9.0 - 9.5	9.5 - 9.7

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