

Nichols 0994-24-02E
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 A-5
 Latitude 39.264661000° N
 Longitude 107.830561000° W

Directional Target

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

BHL Geographical Coordinates (NAD-83)

Latitude 39.268802000° N
 Longitude 107.825932000° 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	7877-ft	1030-ft

Cementing Details

8-5/8" Surface Casing

Halliburton Name	VariCem GJ5	Tail
Type	Extended	Extended
Additives	Pol-E-Flake	Pol-E-Flake
Planned top	Surface	1000-ft
Density (ppg)	12.30	12.80
Yield (cf/sx)	2.45	2.18
Volume (sx)	197	109
Volume (bbls)	86	42

4-1/2" Production Casing

Halliburton Name	NeoCem GJ2	Tail
Type	II/V	50:50 Poz:G
Additives	Pol-E-Flake	Pol-E-Flake, Kol-Seal
Planned top	1030-ft	5827-ft
Density (ppg)	12.50	13.30
Yield (cf/sx)	1.94	1.73
Volume (sx)	842	419
Volume (bbls)	291	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	2620	2469	Sd/Sh; gas	8.8	9.0 - 9.3
Williams Fork	4542	4219	Sd/Sh; gas & SW	8.8	9.0 - 9.3
Top of Gas	6027	5619	Sd/Sh; gas & SW	8.8 - 9.2	9.0 - 9.5
Cameo	6927	6519	Sd/Sh/Coals; gas & condensate	8.8 - 9.2	9.0 - 9.5
Base Cameo Coal	7587	7179	Sd/Sh/Coals; gas & condensate	8.8 - 9.2	9.0 - 9.5
Rollins	7627	7219	Sd/Sh; gas, condensate & SW	9.0 - 9.5	9.3 - 9.7
Total Depth	7877	7469	Sd/Sh; gas, condensate & SW	9.0 - 9.5	9.5 - 9.7

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