

Dill Gulch 1-22

Proposed Schematic

17-Sep-13

Field: WFU	AFE / Network #: 0	LAT: 0
County: Routt	Shell Working Interest: 100%	LONG: 0
Township: Sec: 22, Twp: 6N, Rng: 88W	AFE Drilling Cost: \$0	Ground Elevation: 6550 ft (surveyed)
Rig: TBD	Plan Days: 0	RKB to Ground: 0 ft
Permit API: 0		RKB Elevation: 6550 ft

Objectives: Drill Surface and Intermediate into top of Niobrara
 Drill vertical production hole
 Drill to total MD without losses

30" Hole drilled to	90
20" pipe (0.25") set @	90
Cement to surface	
Surface	
12-1/4" Hole drilled to	2600
9-5/8" 36# J-55 STC @	2600
Cement to surface	
Intermediate	
9-7/8" Hole drilled to	7750
7" 29# P-110 LTC @	7750
Top of cement 2400' MD	

8-1/2" hole

Production	
6" Hole drilled to	10400
5-1/2" 17# N-8011-511 @	10400

Barefoot (no liner)

NOTES	Casing
Notify COGCC according to NW Notifications Test BOPs to 2000 psi Test 9-5/8" csg to 1500 psi for 30 min Test 7" csg to 1500 psi for 30 min	Surface: 9-5/8" 36# J-55 R3 ST&C 0-2600 ft Intermediate: 7" 29# P-110 R3 LTC 0-7750 ft Production: No casing 7550-10400 ft MD

DRILLING FLUIDS
Surface: Clear Gyp Water Hi-Vis Sweeps as needed Intermediate: Clear Gyp Water + Air Begin with 350 SCFM + 350 GPM Watch Cuttings return to gauge cleaning Production: Aerated OBM or brine

TD AT 10400' TVD / 10400' MD