

**20 Mile Sheep 1-29**

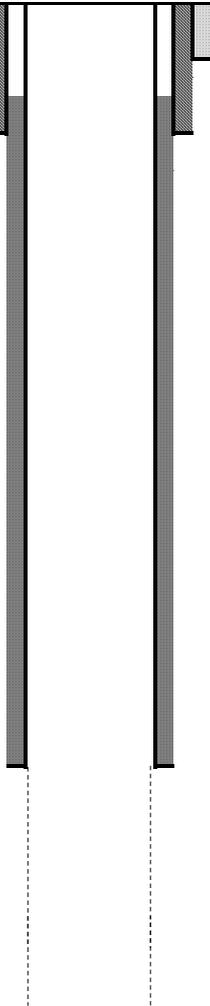
**Proposed Schematic**

**10-Sep-13**

Field: WFU	AFE / Network #: 0	LAT: 40° 27' 17.50 N
County: Routt	Shell Working Interest: 100%	LONG: 107° 10' 03.45 W
Township: Sec: 29, Twp: 6N, Rng: 87W	AFE Drilling Cost: \$0	Ground Elevation: 6571 ft (surveyed)
Rig:	Plan Days: 0	RKB to Ground: 14.5 ft
Permit API: 0		RKB Elevation: 6585.5 ft

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

30" Hole drilled to 20" pipe (0.25") set @ Cement to surface	90 90
<b>Surface</b>	
12-1/4" Hole drilled to 9-5/8" 36# J-55 STC @ Cement to surface	800 800
<b>Intermediate</b>	
8-1/2" Hole drilled to 7" 29# P-110 LTC @ Top of cement 600' MD	5900 5900
<b>Production</b>	
6" Hole drilled to Barefoot- no liner	8950



NOTES	Casing
Notify COGCC according to NW Notifications Test BOPs to 5000 psi Test Surface csg to 1500 psi for 30 min Test Intermediate csg to 1500 psi for 30 min	<b>Surface:</b> 9-5/8" 36# J-55 R3 ST&C 0-800 ft  <b>Intermediate:</b> 7" 29# P-110 R3 LTC 0-5900 ft  <b>Production:</b> No casing 5900-8950 ft MD
	<b>DRILLING FLUIDS</b>
	<b>Surface:</b> Clear Gyp Water Hi-Vis Sweeps as needed <b>Intermediate:</b> Clear Gyp Water + Air Begin with 350 SCFM + 350 GPM Watch Cuttings return to gauge cleaning <b>Production: Aerated OBM or brine</b>

TD AT 8950' TVD / 8950' MD