

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 90		<div></div>		NOTES	
20" pipe (0.25") set @ 90				Casing	
Cement to surface				Surface: 9-5/8" 36# J-55 R3 ST&C 0-800 ft	
Surface				Intermediate: 7" 29# P-110 R3 LTC 0-5900 ft	
12-1/4" Hole drilled to 800				Production: No casing 5900-8950 ft MD	
9-5/8" 36# J-55 STC @ 800				DRILLING FLUIDS	
Cement to surface				Surface: Clear Gyp Water Hi-Vis Sweeps as needed	
Intermediate				Intermediate: Clear Gyp Water + Air Begin with 350 SCFM + 350 GPM Watch Cuttings return to gauge cleaning	
8-1/2" Hole drilled to 5900				Production: Aerated OBM or brine	
7" 29# P-110 LTC @ 5900					
Top of cement 600' MD					
Production					
6" Hole drilled to 8950					
Barefoot- no liner					

TD AT 8950' TVD / 8950' MD