

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		NOTES		Casing	
20" pipe (0.25") set @ 90		Notify COGCC according to NW Notifications		Surface:	
Cement to surface		Test BOPs to 2000 psi		9-5/8" 36# J-55 R3 ST&C	
Surface		Test 9-5/8" csg to 1500 psi for 30 min		0-2600 ft	
12-1/4" Hole drilled to 2600		Test 7" csg to 1500 psi for 30 min		Intermediate:	
9-5/8" 36# J-55 STC @ 2600				7" 29# P-110 R3 LTC	
Cement to surface				0-7750 ft	
Intermediate				Production:	
9-7/8" Hole drilled to 7750				No casing	
7" 29# P-110 LTC @ 7750				7550-10400 ft MD	
Top of cement 2400' 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	
Production					
6" Hole drilled to 10400					
5 1/2" 17# N-80 H-511 @ 10400					
Barefoot (no liner)					
TD AT 10400' TVD / 10400' MD					