

# Herring Draw 4-33

## Proposed Schematic

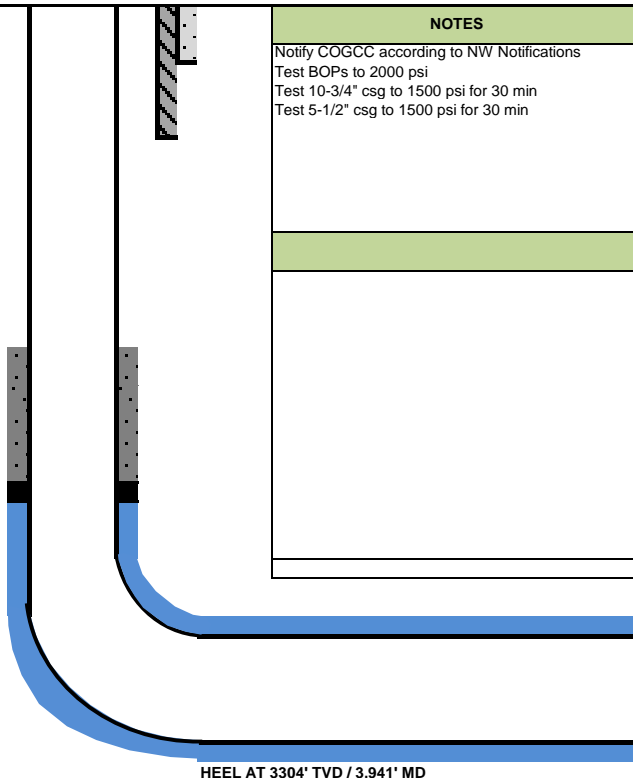
13-Sep-12

Field: WFU	AFE / Network #: 0	LAT: 0
County: Moffat	Shell Working Interest: 100%	LONG: 0
Township: Sec: 33, Twp: 5n, Rng: 90W	AFE Drilling Cost: \$0	Ground Elevation: 6804 ft (surveyed)
Rig: 0	Plan Days: 0	RKB to Ground: 16.5 ft
Permit API: 0		RKB Elevation: 6820.5 ft

### Objectives:

30" Hole drilled to 20" pipe (0.25") set @ Cement to surface	90
13-1/2" Hole drilled to 10-3/4" 40.5# J-55 STC @ Cement to surface	1000
7-7/8" Hole drilled to 5-1/2" 17# N-80 H-511 @	7219

Bottom of cement 2690



TD AT 3,000' TVD / 7,219' MD

HEEL AT 3304' TVD / 3,941' MD

NOTES	Casing
Notify COGCC according to NW Notifications Test BOPs to 2000 psi Test 10-3/4" csg to 1500 psi for 30 min Test 5-1/2" csg to 1500 psi for 30 min	<b>Surface:</b> 10 3/4" 40.5# J-55 R3 ST&C 0-1000 ft <b>Production:</b> 5 1/2" 17# N-80 R3 H511 0 - 3304' TVD / 0 - 7219' MD
	DRILLING FLUIDS
	<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:</b> Aerated OBM