

Herring Draw 5-33	Contingency Schematic	13-Sep-12
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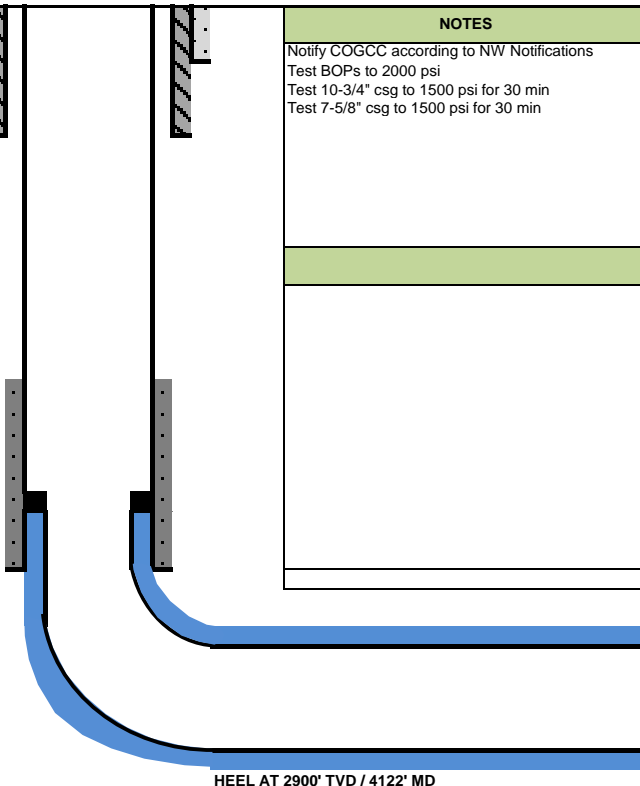
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Field: WFU	AFE / Network #: 0	LAT: 0
County: Moffat	Shell Working Interest: 100%	LONG: 0
Township: Sec: 33, Twp: 5n, Rng: 90W	AFE Drilling Cost: \$0	Ground Elevation: 6804 ft (surveyed)
Rig: 0	Plan Days: 0	RKB to Ground: 16.5 ft
Permit API: 0		RKB Elevation: 6820.5 ft

Objectives:

30" Hole drilled to 20" pipe (0.25") set @ Cement to surface	90 90 "
13-1/2" Hole drilled to 10-3/4" 40.5# J-55 STC @ Cement to surface	1000 1000 "
9-7/8" Hole drilled to 7-5/8" 29.7# P-110 LTC @ Top of cement 1948' MD	2748 2748 "

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 7-5/8" csg to 1500 psi for 30 min	Surface: 10 3/4" 40.5# J-55 R3 ST&C 0-1000 ft Intermediate: 7 5/8" 29.7# P-110 R3 LT&C 0-2748 ft Production: 5 1/2" 17# N-80 R3 H511 2548-7050 ft MD (200' liner overlap)
	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 Follow WFT Program use PWD to watch BHP. Consult Engineer as needed.



TD AT 2.579' TVD / 7.050' MD

HEEL AT 2900' TVD / 4122' MD