

Herring Draw 4-33	Contingency Schematic	13-Sep-12
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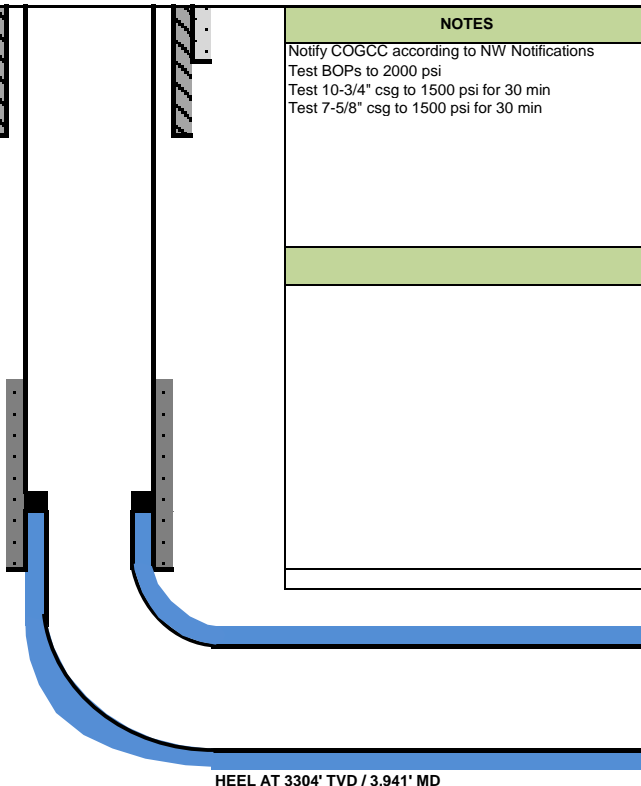
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<b>Field:</b> WFU	<b>AFE / Network #:</b> 0	<b>LAT:</b> 0
<b>County:</b> Moffat	<b>Shell Working Interest:</b> 100%	<b>LONG:</b> 0
<b>Township:</b> Sec: 33, Twp: 5n, Rng: 90W	<b>AFE Drilling Cost:</b> \$0	<b>Ground Elevation:</b> 6804 ft (surveyed)
<b>Rig:</b> 0	<b>Plan Days:</b> 0	<b>RKB to Ground:</b> 16.5 ft
<b>Permit API:</b> 0		<b>RKB Elevation:</b> 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 4264' MD	2690 2690 "

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	<b>Surface:</b> 10 3/4" 40.5# J-55 R3 ST&C 0-1000 ft  <b>Intermediate:</b> 7 5/8" 29.7# P-110 R3 LT&C 0-2690 ft  <b>Production:</b> 5 1/2" 17# N-80 R3 H511 2490-7219 ft MD (200' liner overlap)
	<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</b> Follow WFT Program use PWD to watch BHP. Consult Engineer as needed.



TD AT 3.000' TVD / 7.219' MD

HEEL AT 3304' TVD / 3.941' MD