

North Castor Gulch 6-16

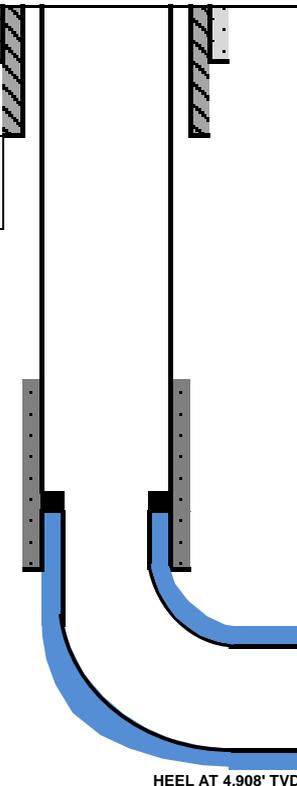
Contingency Schematic

8-Oct-12

Field: WFU	AFE / Network #: 0	LAT: 40° 23' 32.974 N
County: Moffat	Shell Working Interest: 100%	LONG: 107° 36' 19.043 W
Township: Sec: 16, Twp: 5n, Rng: 91W	AFE Drilling Cost: \$0	Ground Elevation: 6987 ft (surveyed)
Rig: Nabors 16	Plan Days: 0	RKB to Ground: 28 ft
Permit API: 0		RKB Elevation: 7015 ft

Objectives: Drill Surface and Intermediate into top of Niobrara
Drill Lateral to total MD without losses

30" Hole drilled to	90
20" pipe (0.25") set @	90
Cement to surface	
13-1/2" Hole drilled to	1250
10-3/4" 40.5# J-55 STC @	1250
Cement to surface	
9-7/8" Hole drilled to	5196
7-5/8" 29.7# P-110 LTC @	5196
Top of cement 4396' 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 7-5/8" csg to 1500 psi for 30 min	Surface: 10 3/4" 40.5# J-55 R3 ST&C 0-1250 ft Intermediate: 7 5/8" 29.7# P-110 R3 LT&C 0-5196 ft Production: 5 1/2" 17# N-80 R3 H511 4996-10289 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.

TOE AT 4,448' TVD / 10,289' MD

HEEL AT 4,908' TVD / 5,698' MD