

North Hayden 1-26

Proposed Schematic

18-Sep-13

Field: WFU	AFE / Network #: 0	LAT: 40° 32' 15.77 N
County: Routt	Shell Working Interest: 100%	LONG: 107° 13' 13.74 W
Township: Sec: 26, Twp: 7N, Rng: 88W	AFE Drilling Cost: \$0	Ground Elevation: 6699 ft (surveyed)
Rig: Savanna 650	Plan Days: 0	RKB to Ground: 15 ft
Permit API: 0		RKB Elevation: 6714 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
20" pipe (0.25") set @	90
Cement to surface	
Surface	
12-1/4" Hole drilled to	2300
9-5/8" 36# J-55 STC @	2300
Cement to surface	
Intermediate	
8-1/2" Hole drilled to	8601
7" 29# P-110 LTC @	8601
Top of cement 2100' MD	
Production	
6" Hole drilled to	9951
Barefoot- no liner	

NOTES	Casing
Notify COGCC according to NW Notifications Test BOPs to 5000 psi Test Surface csg to 1500 psi for 30 min Test Intermediate csg to 1500 psi for 30 min	Surface: 9-5/8" 36# J-55 R3 ST&C 0-2300 ft Intermediate: 7" 29# P-110 R3 LTC 0-8601 ft Production: No casing- barefoot 8601-9951 ft 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	

TD AT 9951' TVD / 9951' MD