

PRELIMINARY DRILLING PROGRAM

1/11/2013

Lease and Well No. Legget 1-5H

MUD PROGRAM

| Depth | Type | Weight | Remarks |
|-----------------|-------------------|----------|---|
| 0' - 550' | Freshwater/Native | 8.4-9.0 | Soap/SAPP, Vis 35-45, YP 4-6, LGS<6% |
| 550' - 5,292' | Freshwater/Native | 8.4-9.4 | Vis 27-30; 8 cc/30min, LGS<6%, YP - No Control |
| 5292.1' - 6670' | Freshwater/Native | 9.6-10.0 | Vis 40-45; API Filtrate ≤8ML/30 Min, CP 12-18; YP 12-16; LGS<6% |
| 6670' - TD | Freshwater/Native | 8.5-8.8 | Vis 32-36; API Filtrate <6ML/30min; CP 8-10; YP 6-8; LGS <5% |

TUBULAR PROGRAM

| String Type | Hole Size | Depth | Feet | Casing Diameter | Weight, Grade, Connection | ERW/ Seamless | Critical Inspection |
|--|-----------|--------|-------|-----------------|----------------------------|---------------|---------------------|
| Surf | 13 1/2" | 550' | 550' | 9 5/8" | 9-5/8", 36 #, J-55, STC | ERW | BCI & Drift |
| Float shoe, shoe joint & float collar. Centralize bottom joint then 5 more every other, 1 at conductor | | | | | | | |
| Int | 8 3/4" | 6670' | 6670' | 7" | 7", 26#, P-110 IC, LTC | ERW | BCI & Drift |
| Float shoe, shoe joint & float collar. Centralize bottom 3 joints. Centralize thru curve and across all salts. | | | | | | | |
| Liner | 6" | 10410' | 4530' | 4 1/2" | 4-1/2", 11.6 #, P-110, BTC | | |
| Tubing | | 5920' | 5920' | 2 7/8" | 2-7/8", 6.5 #, L-80, EUE | | |

Notes: Pipe to end up in hole from top to bottom as shown.

CEMENT PROGRAM

| String Type | SHOE/DV Depth | Stage Lead/Tail | Cement Bottom | Cement Top | No Sacks | Cement System | Cement Yield | Cement Weight |
|--|---------------|-----------------|---------------|------------|----------|---|--------------|---------------|
| | | Lead | 390' | 0' | 141 | Type III+.04% SF+.25#skCF+.01 gps FP-6L+2.5% SM | 2.1 | 12.5 |
| Surf | 550 | Tail | 550' | 390' | 83.6 | Type III+.04% SF+.25#skCF+.01 gps FP-6L+.2%FL-25+1%NaCl+2.5% SM | 1.45 | 14.3 |
| (Basis: Gauge hole + 55% excess, tail 30% of length, lead to surface.) | | | | | | | | |
| Int | 6670 | Lead | 6020' | 0' | 701 | PL+.25#skCF+.4%FL-63+3% Gel | 1.89 | 12.5 |
| | | Tail | 6670' | 6020' | 86 | 50:50 (POZ:G)+.4%FL63 +3%Gel+1%SMS+20%SF | 1.71 | 13.5 |
| (Basis: Gauge hole + 50% excess, Tail to 200 ft above top Niobrara A, Lead to Surface) | | | | | | | | |

BOP PROGRAM

| Hole Size | Configuration | Pressure Rating | BOP Test Press | Casing Test Press |
|---|---------------------|-----------------|----------------|-------------------|
| 13 1/2" | Circulate Conductor | | | |
| 8 3/4" | RRA | 5M | 5000 | |
| 6" | RRA | 5M | 5000 | |
| Utilize commercial testers every 30 days. | | | | |

LOGGING PROGRAM

| FROM | TO | TOOLS |
|----------|-----|---|
| BLS | TD | 2 man mud logger trailer, 30 ft samples |
| Surf csg | TD | MWD Surveys, 90 ft & 30 ft thru curve |
| KOP | TD | MWD Gamma Ray |
| Surface | DDO | CBL, CCL, Gr |

Remarks: 4 1/2 inch Liner to be run. Liner Top @ KOP (5918 ft TVD) and 19 swell packers to be run with liner.
Liner top to be tested successfully to 4500 psi prior to rigging down.

Prepared By: _____

Date: 12/14/2012