

30-025-43633

## Vast State #20H

### Casing and Cement

| <u>String</u> | <u>Hole Size</u> | <u>Csg OD</u> | <u>PPF</u> | <u>Depth</u> | <u>Sx Cement</u> | <u>TOC</u> |
|---------------|------------------|---------------|------------|--------------|------------------|------------|
| Surface       | 13-1/2"          | 10-3/4"       | 45.5#      | 1,025'       | 500              | 0'         |
| Intermediate  | 9-7/8"           | 7-5/8"        | 29.7#      | 11,750'      | 1100             | 0'         |
| Production    | 6-3/4"           | 5-1/2"x5"     | 23#-18#    | 17,114'      | 900              | 11,000'    |

### Well Plan

Drill 13-1/2" hole to ~1025' w/ fresh water spud mud. Run 10-3/4" 45.5# J55 STC casing to TD and cement to surface in one stage.

Drill 9-7/8" hole to ~11,750' with diesel brine emulsion. Run 7-5/8" 29.7# P110 casing to TD and cement to surface in one stage.

Drill 6 3/4" pilot hole to ~13,500' with cut brine. Will Cement plug back pilot hole and set cement plug for kick off.

Drill 6-3/4" vertical hole, curve & lateral to 17,041' with OBM. Run 5-1/2" 23# P110 LTC by 5" 18# P110 LTC casing to TD and cement to 11,000' in one stage.

### Well Control

After setting 10-3/4" casing and installing 3000 psi casing head, NU 13-5/8" Cameron BOP. Test annular and casing to 1500 psi and other BOP equipment to 3000 psi.

After setting 7-5/8" casing and installing 5000 psi casing spool, NU 13-5/8" Cameron BOP. Test annular to 3000 psi and other BOP equipment to 5000 psi.