

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.