CONOCO STATE #1 DRILLING & COMPLETION PROCEDURE VACUUM ABO SINGLE COMPLETION

- 1. Drill 17-1/2" hole to 250 using spud mud. Run 13-3/8" casing to bottom and circulate coment to surface using Class H coment containing 2% CaCl₂. WOC a minimum of 18 hours and test casing to 500 psi before drilling shoe.
- 2. Drill 12½" or 11" hole thru the salt section but do not penetrate the Yates porosity. The red bed section can be drilled with spud mud, then convert to a saturated brine to drill the salt section. Run 8-5/8" casing to bottom and circulate cement to the surface using Lite-Wate (13.1#/gal) containing 7½# salt/sack and tail in with Class C neat containing 2.6# salt/sack with a slurry density of 14.9#/gal. WOC a minimum of/8 hours. Test to 1000 psi before drilling out.
- 3. Drill 7-7/8" hole to TD. Drill out from under 8-5/8" surface casing with fresh water. Approximately 200' before reaching TD mud up with gel and starch to condition hole. Run 5½" casing and circulate cement to surface using a light slurry (12.4#/gal) and tail in with Class C neat to cover pay zone. WOC 24 hours and test casing.
- 4. MIRU DD Unit. Run 2-3/8" tubing and bit to PBTD. Displace hole to Abo oil and spot 500 gals 15% NE acid on bottom. POH.
- 5. Run PDC log and perf the Abo as directed by Geologist.
- 6. Displace acid into formation and swab back to clean up.
- 7. Acidize with 10,000 gals 15% NE acid containing 5# friction reducer/1000 gals down 2-3/8" tubing at 5-6 BPM. Ball sealers should be used to open all perfs. Estimated treating pressure 5000 psi.
- 8. Swab back immediately to clean up and test.
- 9. Run 48 hr BHP build up.
- 10. Complete as a single Abo producer.

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