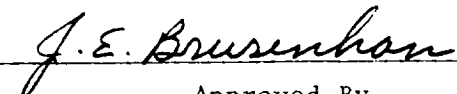


RE-ENTRY PROCEDURE FOR UNIT STATE #1

- 1) Dig-out 13-3/8 casing with back-hole. Cut off dry hole marker. Drill 1/4" hole in dry hole plate to check for pressure. If no pressure cut plate off of 13-3/8 casing. Bevel casing and install a slip-on type WKM starting head. 13-3/8 X 8-5/8. (900 Series)
- 2) RU rat hole machine and drill out 40' surface plug with 12-1/4 rock bit.
- 3) MICU - Install BOP's. RIH w/ 11" rock bit, 4-5 1/2" drill collars & 2-7/8 (N-80) workstring. Drl out cement plug @ 364' and 1460'. Drl and wash clean to top of fish @ 2363'. Condition hole and break circ every 300' on 1st trip in hole. Use 9.9#/gal gelled brine w/ starch to protect red beds and salt section. POH w/ 11' rock bit.
- 4) Run in hole w/ 10-3/4 concave mill and dress off and mill up top 5' of 8-5/8" casing. POH w/ 10-3/4 mill.
- 5) Run in hole w/ 7-7/8 bladed cement mill. Drl into 8-5/8" casing stub @ 2368'. Drl & wash clean from top to fish @ 2368 to 4479. Circ clean POH.
- 6) RU McCulloch and run dual casing inspection log from 2363' to 4479. This log is necessary to check condition of 8-5/8 and locate the 1st collar left in hole after P&A operations. If casing condition looks okay - proceed w/ step 7.
- 7) RIH w/ 12-1/4 rock bit and ream hole from 11" to 12-1/4" from 1973' to 2368'. POH.
- 8) RIH w/ 12" rotary shoe, 2 jts 9-5/8 wash pipe, 4-5 1/2 drill collars and wash over top 20' of fish. POH.
- 9) RIH w/ dressing mill, 1 jt wash pipe and drill collars to bevel top of fish. A smooth 45° bevel is necessary to effect a good seal on the casing patch.
- 10) After hole is clean & fish has been beveled, rig up and run 8-5/8 Bowen (cementing type) lead seal casing bowl patch. Set slips on patch, cement 8-5/8 casing back to surface using 600 sacks Class C cement w/ 2% CCL. Relax casing string setting lead seals. WOC a minimum of 24 hrs. RIH w/ 7-7/8 cement mill & drill out & wash clean to 4479'. Test casing to 1500# for 30 min. Check btm hole @ 4479 for any junk that might have been left from P&A operation.
- 11) If casing tests okay POH - rig down comp unit and prepare location for drilling rig. Another detailed procedure and AFE will be prepared for re-entry to TD.

  
Approved By

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JEB:s1

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JAMES H. H.