

Recommended Procedure:

- Note: 1. All cement slurry used in this procedure shall be Class "C" neat mixed @ 1.32 ft<sup>3</sup>/sack.  
2. All mud shall be 9 ppg.

List of Materials Required

2-3/8" workstring	-	3500' (150' excess)
9 ppg mud	-	250 bbls (85 bbls excess)
Class "C" neat cement	-	250 sacks (70 sacks excess)
10% acetic acid	-	5 bbls (3 bbls excess)

- MIRU well servicing unit.
  - Install a BOP.
  - Pick up a 2-3/8" workstring with CIBP and hydro-test to 3000 psi at the surface while going in hole.
- RIH w/workstring and CIBP to 3385'.
  - Displace tubing with 7.5 bbls of mud.
  - Displace mud out of tubing with 15 bbls of mud. Pull tubing up to 3090'.
  - Set CIBP @ 3090' and spot 25 sacks of cement to 2882'. This will isolate the Penrose perforations 3110'-3365'.
- Pull tubing up (+2880) and spot 5.5 bbls of mud from 2880'-2650'.
- Spot 10.1 sacks (120') of cement in casing from 2650'-2530' to isolate the squeeze perfs @ 2600' and the intermediate shoe @ 2580'.
- Displace casing with mud from 2530'-1130' (33.32+ bbls). Spot 1 bbl of 10% acetic acid from 1130'-1085' and POOH w/workstring.
- Rig up wireline perforating services (preferably Dresser-Atlas).
  - Load a 3-1/2" Kone Shot-Jumbo Jet hollow carrier, centralized, perforating gun with 4 JSPF and 120° passing.
  - RIH w/CCL, gamma ray, and perforating gun, and correlate to the open hole gamma ray log.
  - Perforate the 5-1/2" casing @ 1130' and POOH w/perforating assembly.
- Close the surface/intermediate casing valve and attempt to break circulation with mud.
  - If circulation can be established, circulate cement to surface (29.4 bbls, 125 sxs) and displace cement to 1030' in 5-1/2" casing with 24.5 bbls of mud. This will isolate the salt section. Spot a 100' cement plug in 5-1/2" casing from 355'-255' as per step 9 of this procedure.
  - If ~~circulation~~ *circulation* cannot be established, spot a 100' cement plug from 1130'-1030' with 10.1 sxs of cement. This will isolate the salt section.
  - Spot 16.5 bbls of mud from 1030'-355'.

RECEIVED  
JUL 29 1986  
HOBBS OFFICE