

WORKOVER PROCEDURE
SOUTHLANE SWD "D" #35
LEA COUNTY, NEW MEXICO

BACKGROUND: THE SOUTHLANE SWD WELL DISPOSES OF WATER FROM SUSCO STATE LEASE. THE WELL HAS DEVELOPED A CASING LEAK THAT IS SUSPECTED TO BE AT 1950'. IT IS RECOMMENDED TO LOCATE, ISOLATE AND REPAIR THE CASING LEAK.

CASING: 5 1/2", 17 & 20#. COLLAPSE @ 6280#, BURST @ 7740#.
TUBING: 2 7/8", 6.5#, J-55. COLLAPSE @ 7680#, BURST @ 7260#.

PROCEDURE:

1. MIRU WSU. NU CLASS III BOP'S. INSERT PLUG IN ON-OFF TOOL. J OFF ON-OFF TOOL AND POOH WITH THE 2 7/8" INJECTION STRING. VISUALLY INSPECT AND REPLACE AS NECESSARY.
2. RIH W/MODEL R RETRIEVABLE PACKER ON A 2 7/8" WORKSTRING AND LOCATE CASING LEAK. POOH WITH PACKER AND HYDROTEST TO 5000 PSI WHILE RIH WITH PACKER AND RTBP. ISOLATED THE LEAK BETWEEN THE RTBP & PACKER.
3. POSITION THE PACKER 100' ABOVE THE CASING LEAK AND TEST BACKSIDE TO 500#. DUMP 10' OF SAND ON TOP OF RTBP. ESTABLISH INJECTION RATE INTO THE LEAK AND CONTACT THE DALLAS OFFICE.
4. RU CEMENT COMPANY AND SQUEEZE AS FOLLOWS:
 - A. PUMP A 10 BBL FRESH WATER SPACER.
 - B. PUMP 50 SX CLASS "C" NEAT CEMENT WITHOUT EXCEEDING 1000 PSI SURFACE PUMPING PRESSURE.
 - C. CONTINUE DISPLACING THE CEMENT WITH FRESH WATER UNTIL THE CEMENT IS BELOW THE PACKER.
 - D. BEGIN HESITATION SQUEEZE. HESITATE AS NECESSARY TO OBTAIN SQUEEZE. IF A SQUEEZE CANNOT BE OBTAINED, OVERDISPLACE CEMENT AND CONTACT DALLAS FOR SUPPLEMENTAL PROCEDURE.
 - E. UNSET PACKER AND REVERSE CIRCULATE TUBING CLEAN. HOLD 1000 PSI ON THE TUBING WHILE REVERSE CIRCULATING. PUH 150', RESET THE PACKER AND HOLD 500# ON THE TUBING. SION.

NOTE: THE CEMENT VOLUME AND ADDITIVES MAY CHANGE BASED ON THE INJECTION RATE ESTABLISHED IN STEP 3.

5. UNSET AND POOH WITH THE PACKER. RIH WITH 4 3/4" BIT AND DRILLOUT CEMENT. PRESSURE TEST THE LEAK TO 500#. CIRCULATE HOLE CLEAN & POOH WITH BIT.
6. RIH AND CIRCULATE SAND OFF RTBP. RETRIEVE BP AND POOH.