

Maduro Federal Unit #4

Union Oil Co. of Calif.

- 2/15 TIH, 13,750 TD. MUD: 12.1, 68, 3.2, 1/32, 9. RAN DDL W/GR & CALIPER FROM 13,748 LTD TO 4952'. RAN CNL LDT GR W/CALIPER FROM 13,748-4952' W/CNL & GR TO SURF. RAN SIDEWALL CORING TOOL. CORED 13 CORES & REC 12 CORES. TIH, INC. TD 13,750', RAN 5-1/2" CSG. MUD: 12.1, 68, 3.2, 1/32, 9. FINISH TIH TO TD @ 13,750'. NO FILL. CIRC & COND HOLE 7-1/4 HRS. LD DP & DC'S. RUNNING 5-1/2" CSG, INC.
- 2/16 TD 13,750'. RAN & CMTD 340 JTS & 1 PC (13,731') OF 5-1/2" 17# S-95 & N-80 LT&C BUTTRESS NEW & USED BOVAIRD & ISI CSG @ 13,750'. FLOAT COLLAR @ 13,668' & DV TOOL @ 10,480'. PRECEDED CMT 65 BBLS WMW-1 MUD FLUSH & 12 BBLS SURE BOND, CMTD 1ST STAGE W/1460 SXS CLASS "H" CMT W/ 1.25% CF-14, 3% KCL, 1/4# FLOCELE @ 15.6 PPG. 500-1500 PSI. BUMPED DV TOOL W/OPENING BOMB, OPENED DV TOOL W/2500 PSI. CIP & JC @ 1:45 A.M. 2/18/90. CIRC 4 HRS THRU DV TOOL & CIRC OUT 75 SXS CMT.
- 2/17 TD 13,750'. MORT. ATTEMPTED TO CMT 2ND STAGE THRU DV TOOL @ 10,480'. P/8 BBLS MUD FLUSH & DV TOOL PLUGGED. PRESS 5-1/2" CSG TO 3000 PSI SEVERAL TIMES & COULD NOT CIRC. ATTEMPTED TO REVERSE CIRC W/700 PSI & COULD NOT CIRC. NO BOP, SET 5-1/2" SLIPS, CUT OFF 5-1/2" CSG. RIG RELEASED @ 5:00 P.M. 2/18/90. TEMP OFF REPORT.
- 2/18 MIRU X-PERT WELL SERVICE. NU BOP. PU 2-7/8" TBG TO 4300', INC. SDON.
- 2/22 FIH W/OE'D 2-7/8" TBG TO DV TOOL @ 10,482'. DISP HOLE W/10 PPG BRINE. ATTEMPT TO PUMP THRU DV TOOL. HELD 3000#. TOH W/TBG. SDON.
- 2/23 RUN 4-3/4" BIT ON 2-7/8" TBG TO DV TOOL @ 10,482'. DRLD DV TOOL/1-3/4 HRS. CIRC HOLE CLEAN. PRES 5-1/2" CSG TO 3000#. BLED TO 1175#/15 MINS. REPEAT 4 TIMES. TOH W/BIT. RAN 5-1/2" PKR ON 2-7/8" TBG, INCOMP. SDON.
- 2/24 PMPD THRU DV TOOL @ 10,480' @ .4 BPM @ 5800 PSI W/1.5 BBLS 15% HCL ACID. FULL RETURNS OUT 5-1/2" X 9-5/8" ANNULUS. REL PKR, RIN TO 10,482'. REV OUT ACID, POOH. RIN W/4-3/4" BIT ON 2-7/8" TBG TO TOC @ 13,235'. CIRC HOLE CLEAN W/BRINE WTR. PU TO 13,100'. SDON.
- 2/27 RIN W/BIT TO TOC @ 13,235'. DRLD PLUG, CMT & FLOAT COLLAR 13,235-13,735' ETD FOR 8 HRS. CIRC HOLE CLEAN.
- 3/1 POOH W/BIT. RAN CBL W/GR & CCL LOG FRM 13,736' LTD TO 10,000'. LOG INDICATES GOOD BOND FRM 13,736-13,320', POOR BOND FRM 13,320-10,500', NO BOND FRM 10,500-10,000'. (DV TOOL @ 10,480'). SDON.
- 3-3 PERF 5-1/2" CSG W/4" CSG GUN 1 SPF 10,482-85' & SHOTS IN 4'. CIRC DN 5-1/2" CSG, OUT 5-1/2" X 9-5/8" ANNULUS W/BRINE WTR. CMT'D 5-1/2" CSG THRU PERFS @ 10,482-85' W/1400 SXS PACESETTER LITE CMT W/1/4# CELLOSEAL @ 12.4 PPG F/B 1000 SXS CLASS "H" NEAT CMT @ 15.6 PPG. DISPLACED CMT TO 10,215' W/237 BBLS 10# BRINE WTR @ 8 BPM 900-1900 PSI. SHUT WELL IN. SDON.
- 3/5 RAN TEMP SURVEY. TOC @ 1650'. RIN W/4-3/4" BIT ON 2-7/8" TBG TO 10,190'. DRLD CMT TO 10,190-10,511' FELL FREE, RIN TO 10,605'. CIRC HOLE CLEAN. TSTD 5-1/2" SQZ HOLES 10,482-85' TO 3000 PSI, OK. SDON.