

- FEDERAL "4" COMM #1  
 10/18 (7) 1800, drlg lm 12- $\frac{1}{4}$ " hole, 1 $^{\circ}$  1600. Fr wtr.  
 70% circ.
- FEDERAL "4" COMM #1  
 10/19 (8) 1835, ND lm, 12- $\frac{1}{4}$ " hole. Fr wtr.  
 Stuck bit @ 1836 past 21- $\frac{1}{2}$  hrs, Dia log ran FPI, backed off  
 DC's @ 1595, left 12- $\frac{1}{4}$  bit, stab, & 8 DC's in hole, now POH  
 w/ DP.
- FEDERAL "4" COMM #1  
 10/20 (9) 2090' drlg lm, 12-1/4" hole, 1-1/4 $^{\circ}$  1960. Fr Wtr  
 80% circulation - finish POH, ran jars on DC's  
 & DP to 1595', screwed into fish, jarred loose,  
 POH, rec all fish in 10-1/2 additional hrs.
- 10/22 (11) 2750, ND lm, 12-1/4" hole, 1/4 $^{\circ}$  2600', 8.6-38-20  
 Mixing mud past 5 hrs, prep to run 9-5/8"  
 casing.
- FEDERAL "4" COMM #1  
 10/23 (12) 2750 ND lm, WOC 9-5/8" csg, cond mud 4 additional hrs, POH w/ DP &  
 DC's, ran 89 jts 9-5/8" O.D. 40.0# K-55 8rd ST&C csg to 2750, while  
 circ stuck csg @ 2742, 8' off bottom, Howco cmtd csg @ 2742 w/ 1300 sx  
 TILW containing 1/4# flocele/sx + 100 sx Class C neat, PD @ 10:45 p.m.  
 10-22-73, cmt circ, WOC.
- FEDERAL "4" COMM #1  
 10/24 (13) 2750 ND, nipple up, BOP's & tst BOP's past 24 hrs, prep  
 to drill 8-3/4" hole.
- FEDERAL "4" COMM #1  
 10/25 (14) 3050, drlg lm & sd, 8-3/4" hole, NND. Fr wtr.  
 15 addl hrs tst BOP's.
- FEDERAL "4" COMM #1  
 10/26 (15) 3700, drlg lm & sd, 8-3/4" hole,  $\frac{1}{4}$  $^{\circ}$  3150, 1 $^{\circ}$  3600.  
 Fr wtr.
- FEDERAL "4" COMM #1  
 10/27 (16) 4350, drlg lm & sh, 8-3/4" hole, 1 $^{\circ}$  3960. Fr wtr.
- 10/28 (17) 4920, drlg lm & sh, 8-3/4" hole, 3/4 $^{\circ}$  4500. Fr wtr.
- 10/29 (18) 5360, drlg lm & sh, 8-3/4" hole, 3/4 $^{\circ}$  5000. Fr wtr.
- FEDERAL "4" COMM #1  
 10/30 (19) 5692, drlg lm & sh, 8-3/4" hole, 1 $^{\circ}$  @ 5520. Fr wtr.
- FEDERAL "4" COMM #1  
 10/31 (20) 6133, drlg lm & sh, 8-3/4" hole, 1 $^{\circ}$  6059. Fr wtr.
- FEDERAL "4" COMM #1  
 11/1 (21) 6680, drlg lm & sh, 8-3/4" hole, NND. Fr wtr.
- FEDERAL "4" COMM #1  
 11/2 (22) 6957, drlg lm & sh, 8-3/4" hole, 3- $\frac{1}{4}$  $^{\circ}$  6710, 2- $\frac{1}{4}$  $^{\circ}$  6820,  
 2- $\frac{1}{2}$  $^{\circ}$  6947. Fr wtr.