

- FEDERAL "LL" #1  
7/18 (45) 11,816 drlg sh, 8-3/4" hole, 3/4 @ 11,795. 10.5-44-10.0.
- FEDERAL "LL" #1  
7/19 (46) 11,875 drlg lm & sh, 8-3/4" hole, NND. 10.5-42-10.0.
- FEDERAL "LL" #1  
7/20 (47) 11,967 drlg lm & sh, 8-3/4" hole, NND, 10.5-46-10.0.  
had drlg break @ 11,945 pickup sh of gas.
- FEDERAL "LL" #1  
7/21 (48) 12,057 drlg sh, 8-3/4" hole, NND. 10.5-47-10.0.
- 7/23 (50) 12,090 TD sh, 8-3/4" hole, 1<sup>o</sup> @ 12,090, 10.5-48-10.0.  
circ 4 hrs, POH, WO Schl 6 hrs, Schl ran BHC-N-Formation Density  
log from 5600-12,106, loggers' TD in 6 hrs while pulling  
logging tool out of hole, ran into BOP, pull line out of rope  
socket, dropped logging tool in hole, ran 7-5/8 OD OS w/ 3-3/8  
grapples to 11,990, caught fish, POH, rec fish, left part of  
Caliper arm in hole, prep to run bit to bottom.
- FEDERAL "LL" #1  
7/24 12,090 TD sh, 8-3/4" hole, 10.5-43-10.4.  
ran bit to 12,090, cond hole & mud 5 hrs, POH, Schl running  
OH logs past 9 hrs, Dual IES & Microlog.
- FEDERAL "LL" #1,  
7/25 12,090 TD sh, 8-3/4" hole 10.4-45-10.0.  
4 add'l hrs running logs, ran bit to bottom, circ 3-3/4 hrs,  
POH, stand 5600' of 4½ DP in derrick, LD remainder of DP &  
DC's, now running 7" liner 3000' in hole.
- FEDERAL "LL" #1  
7/26 12,090 TD sh, WOC 7" liner, ran 159 jts 7" OD 26.0# S95 LT&C  
liner w/ BOT Type C liner hanger to 12,088, top of hanger @  
5392, circ 3 hrs, Howco cmtd w/ 1100x T1LW+ 250x Class H Neat  
cmt w/ .04% HR-4/x, PD @ 5:15 p.m. 7/25/73, lost circ on last  
30 bbls of displ, POH w/ DP & liner setting tool, WOC 8 hrs,  
ran 8-3/4 bit to 5392, no cmt on top of liner, now displ mud  
w/ br wtr.
- FEDERAL "LL" #1  
7/27 12,090 TD, WOC 7" liner, finish displ hole w/ br wtr, POH w/  
bit, ran 9-5/8 RTTS pkrr on 4½ DP to 5142, Howco pumped in  
over top of 7" liner 6.0 BPM @ 700#, then cmtd w/ 250x Class  
C cmt, DPP 300, displ cmt to 5242, WOC 4 hrs, POH, ran 8-3/4  
bit on 1 - 6" DC & 4½ DP to 5242, WOC total 12 hrs, drld cmt  
from 5267-5392, now circ, prep to test top of liner.
- FEDERAL "LL" #1, 12,090 TD.  
7/28 Finish displ hole w/ br wtr, P & LD DP & DC's, clean pits,  
remove contractors BOP's, inst'l rental BOP, RD & Rel Marcum  
Drlg Co rig @ 8:00 p.m. 7/27/73, prep to MOR.
- 7/30 MOR, prep to MI unit to compl.