

4-25 TD 17,652', Upper Silurian.

DST #2: 17,585-17,652' (67').

Opened tool for 15 minute pre flow with weak blow increasing slightly at end of flow period. Shut in 60 minutes for ISIP. Tool opened 120 minutes for FFP with weak blow increasing to fair blow at end of flow period. No GTS.

Surface choke - 3/8", bottom choke - .62"

IHH	8724#	FFP (120")	3325-3877#
IFP (15")	3065-3162#	FSIP (240")	7363#
ISIP (60")	7233#	FHH	8692#

Used 6790' water cushion. Rversed out 6790' water cushion plus 1732' of drill fluid cut with formation water. Recovered 120' black sulfur water above circulating sub. Sample chamber recovered 1900 cc black sulfur water plus 5.6 cubic feet of gas at 120#, BHT at 17,648' was 250°F.

4-26 & TD 17,652', Driller - 17,645', Schlumberger. PBTD 16,742'. Currently running
4-27 2 7/8" production tubing. Ran Schlumberger electric logs as follows:

BHC-Sonic w/Gamma Ray (17,635-16,906'), Compensated Neutron-Formation Density (17,636-16,906'), Dual Laterolog-Micro-SFL (17,639-16,906'), Gamma-Ray Spectroscopy Log (16,932-12,600') and Cyberlook (17,630-16,906'). Cement Bond Log (16,910-12,000').

4-28 Set CIBP at 16,882'. Circulated hole with 9.1# brine. Spotted 25 sxs Class "H" cement, 3/4% CFR-2 16,742-16,882'.

4-29 Schlumberger ran Cement Bond Log with 3000# on csg. OK, 16,682-12,000'.

4-30 & Ran Baker Lockset pkr. and 421 jts. (13,022') 2 7/8" tbg. Displaced to 12,000'
5-1 with nitrogen. Set pkr. 13,054', profile at 13,048', and on & off tool 13,046'. Installed wellhead. Released rig 3:00 a.m.

5-4 Set gas unit. Connecting flow lines.

5-5 Connected up gas unit.

5-7 By Dresser Atlas, ran PFC Log 15,000-16,595'. Perf. 7" csg. .39" hole, 11 holes, 16,630,32,34,36,38,40,42,44,46,48,50'. Pulling gun. Flow 9 hrs., 20/64, TP-40#. 6' flare. TSTM. No fluid. 3 1/2 hr. shut-in TP-115#.

5-8 Cardinal treated 7" perfs. 16,630-50', 11 holes, with 1500 gals. 6% foamed acid, 16 ball sealers, using 225,000 SCF N₂. Formation broke 8800#. Maximum treating pressure 9400#, min. 8800#, ISIP 8200#, rate 5 BPM, 15 min. 7900#. Displaced acid to perfs. and overflushed with 3 bbls. Total load 225 bbls. Flowed 12 1/2 hrs. 110 BLW, 447,000 CFG, TP-16#. No fluid last 9 hrs.

5-9 Kill well with 110 bbls. 2% KCl water. Dresser Atlas ran 1 11/16" X-plug (thru tbg. BP) and stopped at 13,811' while pulling tools. Swabbed well in, 15-20 bbls. condensate. Loaded tbg. with 67 bbls. 2% KCl water.

5-17 Rigged up rotary tools. Installed BOP and choke lines.