

June 18, 1979
(contl.)

Set liner on hanger one foot off bottom at 3913' with top of liner hanger at 2982'. Landing collar and plugs at 3895'. Cemented with 250 sacks Class "C" with 5# salt per sack, 0.3 of 1% HLX 249 per sack, and 0.3 of 1% CFR-2 per sack. Reversed out approximately 80 sacks cement. Job completed approximately 5:30 P.M. 6-17-79 Pumped plug down with 250 gallons MSA and KCl water.

June 19, 1979

Waiting on cement.

June 20, 1979

Waiting on cement.

June 21, 1979

Rig up Perfo-Jet. Go in hole with wire line. Unable to get below top of liner. Run 4 3/4" bit and casing scrapper to top of liner. Run 3 5/16" bit to bottom at 3895'. Run cement bond log, run Gamma-Ray collar log, perforate one hole at 3839', 3841', 3847', 3851', 3855', 3861' - total six holes.

June 22, 1979

Ran RTTS packer on 2 3/8" tubing, treated perforations with 250 gallons MSA 10% and 1500 gallons MCA 15%. Formation broke at 2500#. Dropped 12 ball sealers. Balled out. Maximum pressure 2600#, average pressure 2500#, average rate 3 BPM, Acid 36 bbls. Flush 24 bbls. Total 60 bbls. Swabbed 14 bbls. water. Swabbed dry. 46 bbls. left in formation.

June 23, 1979

Rig up Halliburton to frac.
Pumped 2000 gallons pre pad with 3% Parasperse
3000 gallons pad and CO₂
2000 with 2# 20-40 sand
1660 gallons with 2# 20-40 sand
1700 gallons cut sand, start flush
1750 gallons flush.
Mechanical trouble.
Total 12,110 gallons.

Regrouped. Called for additional material for complete frac job.
Pumped 1000 gallons pad and CO₂
2000 gallons with 2# 20-40 sand
1700 gallons with 2# 20-40 sand
3000 gallons with 4# 20-40 sand
3000 gallons with 5# 20-40 sand
4000 gallons with 5# 10-20 sand
1700 gallons with 5# 10-20 sand
1700 gallons flush
18100