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# STERLING DRILLING CO.

BOX 129

STERLING, KANSAS 67579

December 24, 1981

## COMPLETION REPORT

Mayhew "A" 7-4

Location: 1657' FSL, 1655' FEL, Section 4-26-16, Edwards Co., Ks  
Surface casing: 8 5/8", 23# set at 430' KB. W/ 375 sacks 60-40 Poz,  
2% Gel, 3% cc. Plug down at 10:00 PM 11-16-81

RTD 4535'.

Long String Ran 112 joints, 4 1/2", 10.5#, 8rd, range 3 set at 4526' KB. Cemented with 100 sacks Halco Lite + 125 sacks 50-50 Pozmix W/ 18% salt, 3/4 of 1% CFR-2, 5# Gilsonite / sack, 1/8# Flocele per sack, 1/8# Tuffiber / sack W/ 20 bbls salt flush ahead cement. Shoe joint 12.87'. Plug down at 11:00 AM 11-23-81. By Howco. Lost circulation while pumping plug down. On pump plug down pressure went from 900# to 1700# when plug was down. Last 1200'. Halliburton line and plum bob in casing. Used 100' scartchers & 3 centralizers.

- 12-4-81 Moved in Bayse Well Service to fish out Halliburton line. 1st run with polish rod + jars + home made fishing tool recovered what could be all of line except plum bob. It was mostly balled up around rope socket at top polish rod. He figured he went to 4500' on 1st run. Ran 2 more times. Got just a little wire each time. Ran 2 more times, didn't get anything. Picking up on bottom. Tore down double drum and moved to Mayhew "A" #6-4.
- 12-5-81 Dresser Atlas ran Gamma Ray + Neutron + Bon log. No cement bond above 4430'. Looks like all cement went into Kinderhook sand.
- 12-9-81 Moved Bayse back in and rigged up. Rigged up Dresser Atlas and perforated 4 holes 4414' - 15'. No kick back. Ran Halliburton RTTS packer on new 2 3/8", EVE, 8rd tubing.
- 12-10-81 Finish running packer and tubing. Packer tight at 4400' & keep hanging up and couldn't get packer to set. Would drag for 3 joints. Finally pulled tubing and packer to see if we could tell what was the matter. Wire line around slips on packer. Ran fishing tool on tubing swab. Recovered more line. Ran 5 times. Last 3 times didn't get anything, and was necking up on bottom. Shut down @ 6:00 PM.
- 12-11-81 Ran fishing tool. Picked up on bottom. Worked tool several times. We would go right back to bottom. Came out of hole didn't have anything. Rigged up and ran packer and tubing. Packer set at 4381'. Rigged up Halliburton and squeezed 2000#. Let down and washed out cement. Pulled 4 joints & pressured back to 1000# held OK. Pulled tubing and packer out of hole at 7:00 PM. Closed well in.

- 12-15-81 Ran Halliburton measuring line, got 4484' to KB.
- 12-17-81 Moved in Dresser Atlas Portable mast. Ran bond log again. Top cement 3940'. Perforated 4 holes per foot. 4427' - 31' at 12:15 PM. Closed well in. Fluid level 480' from surface.
- 12-21-81 Moved back in Bayse Well Service. Fluid level 1200' from surface. Swabbed hole down. No show. Rigged up Halliburton and acidized with 250 gallons MCA + 750 gallons NE, 15% acid. Had to increase injection to 9 BPM to load hole. Treated 9BPM at 300#. Instant shut down. Vac. Total load 95 bbls. Fluid down 2000' in 30 minutes. Started swabbing back load at 10:20 AM. Swabbed well to bottom. Lack 35.49 bbls of load. Let set 30 minutes and ran swab. Recovered 25' fluid slightly show of oil. Rigged up Halliburton and fractured well with 24,000 gallon gelled salt water. 10,000#, 20-40 + 10,000# 10-20 sand. Maximum pressure 1550# treating pressure average 1500#. Instant shut down 210#, in 5 minutes. 75#. On vac in 7 minutes. Hooked well up to swab in the morning.
- 12-22-81 Ran swab 3100' down to fluid. Started swabbing on load at 8:30 AM. 1st. hour 25.56 bbls. No show from 3500'; 2nd hour 22.72 bbls fluid. No show, pulling from 3600'. Started showing slight show oil at 11:15 AM after 60 bbls of load back; 3rd hour 24.85 bbls fluid slight show of oil. Pulling from 3700'; 30 minutes 11.36 bbls fluid good scum gassy oil. 84.49 bbls of load back; 4th hour 23.43 bbls. fluid swabbing from 3800'. 8½" total fluid in 5 gallons bucket, ¾" oil. Gas to surface between pulls; 5th hour 28.40 bbls fluid. Swabbing from 3900'; 6 ¾" total fluid ¾" oil. Took off swab and ran tools to bottom to check for sand. No sand. Well gassing real good. Broke off all connections but orbit and got ready to run tubing in the morning. Swabbed back total 136.32 bbls of load. Lack 447 bbls.
- 12-23-81 Well gassing good at 7:15 AM. Rigged up and ran 1' 2 3/8" seating nipple. 79 joints, 2 3/8" EVE, 8rd 250 1' threads off and 61 joints, 2 3/8" EVE, 8rd plastic lined 1918.76' for a total of 140 joints, 4419.92' KB. Ran 2" x 1½" x 12' top holddown double valved pump. 176 WCN #78, ¾" rods 1-6', 1-4' pony rods. 1½" x 16' polish rod. To put well on pump.