

STERLING DRILLING CO.

BOX 129

STERLING, KANSAS 67579

May 28, 1980

Mayhew "A" 2-4
330' FWL 330' FWL S $\frac{1}{2}$ Lot #2
Section 4-T26-R16
Edwards County, Kansas
Elevation 2081' KB, 2072 GL.
8 5/8" surface casing set at 436'
4 1/2", 10.5#, 8rd casing set at 4539' W/ 250 sacks.

5-17-80: Moved in Basye Well Service & rigged up.

5-18-80: Swabbed well down to 3,000'. Rigged up Dresser Atlas and rerun bond log. Showed that casing swabbing does effect cement bond on casing on upper part. Perforated 4 jets per foot 4432' - 4436' at 12:45 P.M.. Swabbed rest of fluid out of casing. Next to last pull recovered 50' gas & a show of oil. On last pull recovered 250' gas and show of oil. Ran swab in 20 minutes didn't get anything. Ran back again & got 50' fluid, not salty show oil & 600' gas. Ran in 30 minutes, didn't get anything, ran in another 30 minutes & got 1200' gas & 20' oil (there was a little mud in oil). Next 30 minutes recovered 1200' gas & 10' oil with some mud in it. Rigged up Halliburton and acidized with 500 gallon MCA 15% acid. Loaded hole, built pressure to 500#, held. Went to 1050#, broke back, increased injection to 9 1/2 BPM at 600#. Instant shut in 100#, vac. in 5 minutes. Total load 86 bbls salt water & acid. Job complete at 5:36 P.M.. Started swabbing load, next to the last pull off bottom we got a good show of oil and 800' gas. Last pull off bottom 2,000# gas and better show of oil. Ran swab in 15 minutes recovered 2,000# gas & 100' heavy oil . Closed in all but small crack at 7:15 PM.

5-20-80: Well is gassing good at 7:15 AM. Opened gate all the way. Could hear fluid gurgling in casing. Fluid down 2300'. Swabbed well down & recovered 26 bbl fluid. Showed water and oil on next to last pull. Last pull - water oil and heavy oil on the last of the pull. Left bottom at 8:55 AM. Testing while waiting on Halliburton to frac. 1st. hour 2.50 bbl gassing all time; 2nd hour 1.67 bbl gassing all time; 3rd. hour 1.67 bbl; 4th hour 1.67; 5th hour 1.67 bbls; 6th hour 1.67 bbl. No Water. 2 pulls per hour. 7th hour 1.25 bbl. 1 pull. Rigged up Halliburton and fractured well with 478 bbls gelled salt water and 10,000# 20/40 & 10,000# 10/20 sand. Maximum pressure 1740#. Average 1500#. Instant shut down 440# in 5 minutes, 250# on vac. in 15 minutes. Injected rate 26 BPM. Complete at 6:57 P.M..

5-21-80: Well had vac at 7:15 AM. 1800' down to fluid, started casing swabbing at 8 AM. 1st. show of gas on 16th pull or 76 bbl recovered. Swabbing from 2400' down at 10AM. Slight show of oil on 26th pull about 100' gas ahead fluid with 122 bbls back. Still swabbing from 2400'. On 32nd pull 800' gas and little more oil showing with 153 bbl back down 30 minutes for dinner. Fluid raised 600', gas to surface. 35th pull getting 1200' gas and 15% oil.

5-21-80:
cont'd

Hooked to tank at 1 PM. 2' 7" in tank to start. 4' 4" at 2 P.M.. made 35 bbl fluid with 40% oil. Gas follows fluid out and fluid is about 1200' from surface at 2:30 PM. Tank had 5' 10" or 30 bbls in 30 minutes. Drained tank down to 4' or 36.70 bbls. Put on rest of lubricator. Can hear fluid gurgling. Started swabbing again at 3 PM. Fluid down 1000' at 4:00 PM. Made 45.84 bbls and 50% oil. Fluid level about 1200' down. at 5 PM made 45.84 bbl fluid & estimated 60% oil. Drained 21.67 bbl water estimated 309 bbls swabbed today. 4' 11" oil in tank or 98 bbls oil. Fluid level still 1200', pulling from 2000'. Well tries to flow by heads. Drained total 58 bbl. water out tank. Lacked 169 bbls of load. Shut in 5:30 PM.

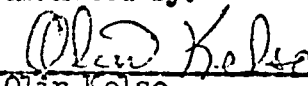
5-22-80:

Drained 15 more bbls water off tank. Bled pressure off well. Flowed 30 bbls from 8 AM to 9 AM. Hauled oil to Cudney tank battery out swab tank 140 to 150 bbls. Flow by heads once in a while. Put 40 bbls water in casing and rigged up and ran tubing from Cudney A-2. Ran 96 joints plain 2 3/8" Eve., 8 rd. 2914.02' threads off and 49 joints 2 3/8" Eve, 8 rd. plastic coated inside on top 1500.37' threads off. Total 4414.39' set at 4420'. Rigged up and started tubing swabbing at 3 PM.. Well already gassing when started. Fluid down 1600' from surface. 1st. hour 26 bbls fluid. Showing more oil with water at end of hour. 2nd hour 23 bbls 40% on casing, est. 60% oil. 3rd. hour 26 bbls. Total 75 bbls fluid swabbed out in 3 hours. Drained off 25 bbls water. Total 384 bbls fluid swabbed out well since frac. 3' 5" in tank at 6:30 PM, 80% on casing, unloading in tank by heads. Left tubing open in tank.

5-23-80:

Well had put 5.03 bbls in tank over night. 200% pressure on casing at 7 AM. Not gassing much out tubing. Drained 8.35 bbl more water off tank which made 33 bbls water and 42 bbls oil swabbed out yesterday in 3 hours. Not accurate on account putting 40 bbls water down casing so could run tubing. 3' 3" in tank to start. Started swabbing tubing 1400' down to fluid. Losing about 10% pressure per pull. Kicked off flowing by heads on 5th pull with 190% casing. 1st. hour 26 bbls. Dead in 20 minutes. Made another pull and it started flowing by heads again. 210% on casing, dead in 35 minutes. Made another pull. Same thing. 2nd hour 18.37 bbl only made 2 pulls. 220% on casing. 3rd hour 20 bbls fluid., 230% on casing, 2 pulls flow by heads. Checks 15 minutes flowing made 6.68 bbl. 4th hour made 16.70 bbls. flowing on casing 270%. 5th hour 33 bbls, 280% on casing flowing. Drained 8 bbls water off tank. 123 bbl fluid out well at this point today. Tank full 9' 7" . Broke out double drum connections and hooked up with Holl connections and opened back up to tank with 370% on casing. Flowing OK. Hauling oil to Cudney batteries, between loads hauled out flowed 18.37 bbl in 30 minutes. 360% on casing at 3 PM. Have hauled approximately 220 bbls to Cudney battery. Have 140 bbls in swab yet. Approx. 360 bbls oil has been taken out of well. Looks like about 30 bbls oil per hour. 440% pressure on casing at 5:30 PM.. At 6:30 made 33 bbls fluid 500% on casing at 7:30 made 36 bbls fluid 560% on casing. Hooked into Halliburton tank at 8:00 PM, 600% on casing at 8 PM. Unit released at 3 PM.

Submitted by:



Olin Kelso

Production Superintendent