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SCHEPMANN #5.4
SE NW SW, Sec 16-18s-11w
Barton County, Kansas

COMPLETION REPORT:

Commenced: 7/18/84

Completed: 7/25/84

RTD: 3377'

Surface Casing: 8 5/8" set at 334' with 180 sacks cement

Production Casing: 5 1/2" set at 3362' with 150 sacks cement

DRILLING INFORMATION:

- 7/18/84 Moved in Mohawk Rig #8 and drilled surface.
- 7/19/84 Drilled to 334' and set 334' of surface casing and cemented with 180 sacks of 60/40 Pozmix, 3% CC, 2% Gel.
- 7/20/84 Drilling ahead at 1529'.
- 7/21/84 Drilling ahead at 2315'.
- 7/22/84 Drilling ahead at 3097'.
- 7/23/84 Drilled to 3128' and ran DST #1 (3086-3128), LKC "A"-"B", 45"45"45"45", REC: 180' GM, 124' VGOCM, SIP: 640-640, FP: 61-112 / 112-112, HP: 1584-1584, BHT: 104F
- 7/24/84 Drilled to 3265' and ran DST #2 (3248-3265), LKC "J", 45"45"45"45", REC: 60' OSpkM, SIP: 609-569, FP: 41-41/41-51, HP: 1615-1604, BHT: 110F
- 7/25/84 Drilled to 3370' and ran DST #3 (3359-3370), ARBUCKLE, 45"45"45"45", REC: 1010' CGO, 130' MCGO, SIP: 498-518, FP: 305-386/417-417, HP: 1768-1747, BHT: 110F
Drilled to 3370' and ran DST #4 (3370-3377), ARBUCKLE, 45"45"45"45", REC: 862' CGO, 150' MCGO, SIP: 498-508, FP: 111-304/304-396, HP: 1779-1737, BHT: 111F

After viewing the log, along with the excellent drill stem test results, it was decided to run 5 1/2" production casing on the Schepmann #4 and complete it as a commercial oil well. We will commence completion operations in approximately two weeks. Set 5 1/2" casing at 3362' with 150 sacks of cement. Released Mohawk Drilling.

COMPLETION INFORMATION:

- 8/6/84 Moved in Mohawk Rig #6 and rigged up.
- 8/7/84 Swabbed the hole down to 3362'. Drilled float and 8' of cement. Drilled shoe for 3hr.

- 8/8/84 Changed the bit. Drilled up the rest of the float and shoe. Ran bailer to clean up the hole.
- 8/9/84 Finished drilling the shoe and 6' of cement. Ran the bailer to clean the hole.
- 8/10/84 Ran the bailer to check the fluid. Tagged fluid at 1877'. Broke tools down. Make tools up for swabbing. Welex ran a bond log and perforated the ARBUCKLE from 3363-3373/4SPF. Swabbed the hole down and tested: Treated well with 500 gls 28% acid.
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|---------|-----------------|
| 1st 30" | 3.48 bbls fluid |
| 2nd 30" | 3.48 bbls fluid |
| 3rd 30" | 2.90 bbls fluid |
| 4th 30" | 2.90 bbls fluid |
- 8/11/84 Swabbed the hole down. Swabbed back 77.54 bbls. Tested:
- | | |
|---------|-----------------|
| 1st 30" | 4.06 bbls fluid |
| 2nd 30" | 3.48 bbls fluid |
| 3rd 30" | 4.06 bbls fluid |
| 4th 30" | 2.03 bbls fluid |
- 8/13/84 Ran the bailer, picked fluid up at approximately 1700'. Cleaned up on the bottom. Ran in 15.48 x 2 7/8" mud anchor, 109 jts of 2 7/8" tubing with 2-4' and 1-8' pup joints, spacked 4' off the bottom. Ran in 2 1/2 x 2 x 12' BHD pump, 132 3/4" rods, 1' x 3/4" pony rod top on the pump. Ran in 1-4' and 1-6' x 3/4" pony rods and 1-2 x 7/8" pony rod with 1 1/2 x 22' polish rod and 1 3/4" x 10' hard faced liner. Spaced pump 1' off the bottom.
- 8/14/84 Rigged down and moved off of location.
- 8/16/84 Moved in Klima Well Service and pulled liner, polish rod & sub. Ran subs, polish rod and liner from Schepmann #3. Hung well on beam to pump. Unstrung & cleaned location.
- 3/23/85 Moved in Mohawk Drilling Rig #3 and got everything ready to come out.
- 3/25/85 Pulled 14' polish rod, 6' liner, 2-2', 1-4', & 2-6' x 3/4" pony rods, 132 x 3/4" rods, 2 1/2 x 2 x 12' pump and 1' gas anchor. Pulled 2-4' & 1-6' x 2 7/8" tubing subs, 107 jts of 2 7/8" tubing, 15' mud anchor and 1' seating nipple. Ran the swab down and got 5 bbls fluid at 100% oil. Made a 30" test and got 1.67 bbls fluid at 100% Oil.
- 3/26/85 Checked overnight fill up, dry. Acidized ABRUCKLE with 1000 gls of 15% FE acid and 200 gls of Xylene, load 106 bbls. Started it down and tested every 30". Zone made .83 bbls to 1.25 bbls every 30" from 44% to 32% Oil. Got back 33.25 bbls back for the load.
- 3/27/85 Checked overnight fillup, 50' fluid at 41% Oil. Perforated the LKC "K" from 3290-3294, LKC "E" from 3145-3148, and the LKC "D" from 3131-3134. Ran Otis plug, packer and tubing in the hole. Set the plug at 3318' and the packer at 3255'. Acidized "K" with 500 gls of 15% NE acid, it wouldn't treat. Swabbed 1000' back out and moved the packer to 2754'. Perforated again the LKC "K" from 3290-3294.
- 3/28/85 Treated LKC "D" & "E" Perforations (3145-3148, & 3131-3134) with 3000 gls of 15% SGA acid. Swabbed the well down and made a 30" test. Zone made 2.70 to 3.34 bbls fluid from 100% to 95% Oil. Got 68.75 bbls back for the load, the load was 106 bbls.
- 3/29/85 Checked overnight fillup, had 1000' of fluid in the hole, all oil. Released the packer. Pulled the plug, packer and tubing out fo the hole. Ran tubing and rods back in & started pumping. Rigged down & moved off location.

- 8/9/85 Moved in Klima Well Service and fished a body break on the 1st rod. Replaced with new Hung well on beam to pump. Unstrung & cleaned location.
- 12/21/85 Moved in Klima Well Service and fished a body break on 2nd rod.
- 1/9/86 Moved in Klima Well Service and well was parted on 28th body break. Fished and hung well on beam to pump. Unstrung and cleaned location.
- 1/13/87 Moved in Mohawk Rig #5 and pulled the pump out. The pump checked out OKay. Painted & pulled tubing, didn't find any leaks. Hydro-tested tubing back in. Found 1 collar leak. Ran everything back in and rigged down. Moved off location.
- 5/30/87 Moved in Mohawk Rig #4 and pulled rods to part. Parted on 17th rod, pin break. Replaced the bad jt & ran everything back in. Rigged down and moved off location.