

BROUGHER OIL, INC.

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SCHREIBER #1
SE NE NE, Sec 33-17s-15w
Barton County, Kansas

COMPLETION REPORT:

Commenced: 8/31/84

Completed: 9/27/84

RTD: 3562'

Surface Casing: 8 5/8" set at 1047' with 500 sacks of cement

Production Casing: 5 1/2" set at 3547' with 150 sacks of cement

DRILLING INFORMATION:

- 8/31/84 Moved in Mohawk Rig #8 and started drilling surface hole.
- 9/1/84 Drilled to 1047' and ran Surface Casing 8 5/8" to 1047'. Cemented with 500 sacks of 60/40 Pozmix, 2% Gel, 3% CC. Plugged down at 11:45am.
- 9/2/84 Drilling ahead at 2072'.
- 9/3/84 Drilling ahead at 3001'.
- 9/4/84 Drilled to 3335' and ran DST #1 (3305-3335), LKC "A" - "B", 45"45"45"45", Rec: 80' GMw/FOSpks. GTS in 4" (gauged at 59 MCF and stabilized at 40 MCF), SIP: 999-883, FP: 46-74/64-74, HP: 1783/1745, BHT: 99F.
- Drilled to 3385' and ran DST #2 (3350-3385), LKC "D" - "F", 45"45"45"45", REC: 420' GIP, 125' HO&GCM, SIP: 231/203, FP: 28-46/56-56, HP: 1821/1802, BHT: 100F
- 9/5/84 Drilling ahead at 3400'.
- 9/6/84 Drilling ahead at 3555'.
- 9/7/84 Drilled to 3561' and ran DST #3 (3523-3561), ARBUCKLE, 60"45"60"45", REC: 120' GIP, 90' HO&GCM, 120' Froggy Oil, 300' Muddy Oil, SIP: 1092/1064, FP: 55-185/185-222, HP: 1970/1875, BHT: 111F
RTD=3561, DD= 3562'
Logged the well with Welex. Preparing to run 5 1/2" casing. Well release Mohawk Drilling later today and attempt to complete well in 10 days to 2 weeks.

COMPLETION INFORMATION:

- 9/10/84 Moved onto location and rigged up Mohawk Drilling Rig #6.

- 9/11/84 Swabbed the hole down. Drilled pump plug, float and 12.5' of cement. Drilled on packer shoe.
- 9/12/84 Ran the bailer and drilled shoe. Bailed heavy mud off bottom, broke down drilling tools. Swabbed hole down and bailed off bottom. Dropped 500 gls of MOD 202 acid and 18 bbls of water on top, shut in overnight. Acidized the ARBUCKLE.
- 9/13/84 Rigged up Welex and ran their rools to top of shale in pipe. Ran the bailer and commenced to clean out. Strung up tools and drilled back to bottom. Ran the bailer 1 time and restrung Welex, tools had a miss run.
- 9/14/84 Ran tools to bottom, came out and ran sand pump. Sand pumped off bottom all day, well sluffed in approximately 3' of Conglomerate sand and shale. Ran tools back and spuded on bottom and came out.
- 9/15/84 Ran sand pump and picked fluid up at 1500'. Ran to bottom and had 6' of fill up on bottom. Ran 87' of 4" liner over all, ran liner to bottom. Circulated clean on bottom. Cemented with 50 sacks of cement. Dropped ball and circulated cement clean. Pulled tubing.
- 9/18/84 Swabbed hole down to approximately 3450'. Strung up bailer and 4" drilling tools. Drilled out bottom of liner and approximately 1' of new hole. Bailed heavy oil cut mud off bottom until commenced to clean up. Welex ran gamma ray newtron long and 1 bottom gamma. Perforated ARBUCKLE from 3549-3553'.
- 9/19/84 Broke down 4" stem. Swabbed hole down and retrieved 28 bbls of fluid. Swabbed off liner. Had 1 bbls of water on bottom. Tested: 1st 60" test 1.16 bbls with trace of water. 2nd 60" test 1.16 bbls with trace of water. Ran Halliburton's RTTS in 4" liner and set at 3534'. Acidized by Dresser Titan with 500 gls of 15% NE acid, load 29.5 bbls. Swabbed 6.67 bbls total fluid, 15" ran dry and 60" ran dry.
- 9/20/84 Overnight fillup had 700' of oil, retireved 2.61 bbls. Pumped in 1500 gls of diesel fuel, flushed with oil. Flush circulated to top. Pulled tubing and packer. Pressured up on casing to 1200#. Swabbed hole down. Ran bailer and retrieved cement on bottom.
- 9/21/84 Ran the bailer and bailed off bottom. Retrieved approximately 5 gls of grainy cement. Ran swab and retrieved 12.18 bbls of oil. Tested:
1st 30" test 1.45 bbls of oil
2nd 30" test .24 bbls
1st 60" test .58 bbls
Ran in 4 jts of tubing for tail pipe and Otis Packer, 5" run down and tagged bottom. Picked up 4' and set packer. Acidized by Dresser Titan with 500 gls of 15% NE acid. Swabbed back 25.27 bbls fluid.
- 9/22/84 Picked up fluid with tubing swab approximately 1000' down. Swabbed 11.11 bbls fluid, no water. Continued to test:
1st 30" test 3.48 bbls fluid, no water
2nd 30" test 2.90 bbls fluid, no water
1st 60" test 5.22 bbls fluid, no water
2nd 60" test 4.64 bbls fluid, no water
3rd 60" test 4.35 bbls fluid, no water
4th 60" test 4.35 bbls fluid, no water
5th 60" test 3.48 bbls fluid, no water.
Treated by Dresser Titan with 1000 gls of retarded 15% acid. Shut in for weekend.

- 9/24/84 Pulled tubing and Otis Packer. Swabbed 21.77 bbls. Tested:
 1st 30" test 3.48 bbls oil
 1st 60" test 5.22 bbls oil
 2nd 60" test 4.93 bbls oil
 3rd 60" test 4.64 bbls oil
 4th 60" test 3.48 bbls oil
 Ran the bailer and retrieved small grains of cement and some Conglomerate Sand.
- 9/25/84 Strung up stem and pushed Otis retrievable bridge plug to 3421'. Swabbed 25.89 bbls of oil. Perforated limited entry at LKC "F" (3373') and LKC "B" ZONE from 3319-3307. Acidized by Dresser Titan with 750 gls of 15% D Mud and 2000 gls of 15% NE acid. Shut in at 300# and bled back into tank, 4.64 bbls. Swabbed back 108 bbls. Perforated after acid job from LKC "F" (3372-3375), and from LKC "B" from 3318-3320, and LKC "A" ZONE from 3306-3310'.
- 9/26/84 Picked static up at 2150'. Swabbed 37.86 bbls, had 8 bbls of oil on top of fluid. Tested:
 1st 30" 4.06 bbls fluid at 16% Oil
 2nd 30" 3.77 bbls fluid at 25% Oil
 3rd 30" 2.32 bbls fluid at 27% Oil
 4th 30" 2.61 bbls fluid at 25% Oil
 1st 60" 3.19 bbls fluid at 26% Oil
 2nd 60" 3.48 bbls fluid at 20% Oil
 3rd 60" 3.48 bbls fluid at 22% Oil
 Shut down swabbing and retrieved Otis Retrievable Bridge Plug. Ran the bailer and cleaned up on bottom.
- 9/27/84 Ran the bailer and hit fluid at approximately 2000'. Hole clean on bottom. Ran in 15' mud anchor, 1' seating nipple, 111 jts of 2 3/8" tubing, landed with 1-6' and 2-10' pup jts and spaced tubing 4' off bottom. Ran in 2x1 1/2 x 12' insert BHD pump with 1-2' x 3/4" pony rod on top, 140 x 3/4" rods. 1-4' and 2-6' pony rods, 16' x 1 1/2" polish rod with 1 1/2 x 5' polish rod liner. Spaced pump 1' off bottom. Long stroked pump and well blew good. Rigged down.
- 10/29/84 Moved in DH Cook and pulled out rods and a 2' x 1 1/2" x 12' BHD pump. Replaced pump and pulled out with a 2' x 1 1/2" x 10' BHD pump. Ran pump and rods back. Ran subs and polish rod. Hung well on to pump. Tore down and moved out pulling unit.
- 1/3/85 Moved in DH Cook and pulled out polish rod, 2', 4' 6' 6' rod subs. 140 3.4" rods and 2' x 12 x 10' pump. Strung up tubing blks. Hung power tongs and pulled out 2' x 6' 10' 10' subs. 111 jts of 2" upset tubing. Seating nipple and 15' mud anchor. Ran back mud anchor and 2' x 1 3/4" x 12 x 15' barrel. Ran tubing and 10' sub. Set tubing down on support. Packed off head. Unstrung tubing blks and strung over rod line. Dropped in 2 cup std valve. Ran in 1 3/4" flexite plunger. Ran in 140 rods and shut down for day.
- 1/4/85 Replaced rod subs with 3/4" rod. Respacked and hung well on to pump. Started well to pumping. Well pumping when left.
- 1/10/85 Moved in Mohawk Drilling and pulled rods and pump. Put on a new pump and ran everything back in. Started pumping and rigged down. Moved off of location.
- 1/26/85 Moved in Mohawk Drilling and pulled rods and tubing out.
- 1/27/85 Rigged up 3 1/2" sand pump. Picked up large rods of cement and iron sulfite. Rigged up 3" sand pump because might not have gotten past the 4" liner in bottom of well

- 8/28/85 Rigged down 3" sand pump. Halliburton found TD at 3552'. well was clean. Ran in rod and tubing. Picked up around location and rigged down. Moved off of location.
- 8/29/85 Moved in Mohawk Drilling and long stroked the well. Started pumping and rigged down. Moved off location.
- 5/30/86 Moved in Mohawk Drilling and pulled the rods and pump. Put on a new pump and ran everything back in. Started pumping and rigged down. Moved off of location.
- 10/20/86 Moved in Mohawk Drilling and pulled rods and pump out. Replaced the pump and ran everything back in. Rigged down & moved off of location.
- 10/31/86 Moved in Mohawk Drilling and long stroked the well. Hung the well on the pumping unit and the well took off pumping. Rigged down and moved off of location.
- 4/20/87 Moved in Mohawk Drilling and pulled rods and valve. Replaced the traveling valve and ran everything back in. Rigged down and moved off location.