



614 PATTON ROAD P.O. DRAWER 1367
GREAT BEND, KANSAS 67530
PHONE (316)793-5610

GARNER "A" #2
NW NW NW, Sec 20-25s-13w
Stafford County, Kansas

COMPLETION REPORT:

Commenced: 5/31/84

Completed: 6/10/84

RTD: 4355'

Surface Casing: 8 5/8" set at 424' with 300 sacks of cement

Production casing: 5 1/2" set at 4354' with 300 sacks of cement

DRILLING INFORMATION:

- 5/31/84 Moved in Mohawk Rig #8.
- 6/1/84 Drilled to 424'. Ran 424' of 8 5/8" casing and cemented with 300 sacks of 60/40 Pozmix, 2% Cel, 3% CC. cement did circulate.
- 6/2/84 Drilling ahead at 1900'.
- 6/3/84 Drilling ahead at 2640'.
- 6/4/84 Drilling ahead at 3630'.
- 6/5/84 Drilled to 3819'. Ran DST #1 (3760-3819) LKC 'E'-'G', 45"60"60"60", REC: 90' GIP, 30' GDM, 300 GMwOil Spks, 120' Frothy G&OCM, 150' HO&GCM, 150' GMCW, SIP: 1246/1225, FP: 307-307/328-349, HP: 2112/2069, BHT:N/A
- 6/6/84 Drilled to 3960'. Ran DST #2 (3940-3960) LKC 'K' ZONE, 45"45"30"45", REC: 160' Mw/Few Oil Spks, SIP: 1109/1014, FP: 63-63/74-74, HP: 2183/2109, BHT: 118°F
- 6/7/84 Drilled to 4105'. Ran DST #3 (4040-4105) CONGLOMERATE & MISSISSIPPI, 45"45"45"45", REC: 90' GM, SIP: 317/296, FP: 84-84/84-84, HP: 2377/2366, BHT:118°F
- 6/8/84 Drilled to 4270'. Ran DST #4 (4230-4290) SIMPSON SAND, 45"45"45"45", REC: 90' SO&GCM, 120' HO&GCM, 480' GMCO, SIP: 444/434, FP: 254-296/307-338, HP: 2377/2366, BHT:120°F
- 6/9/84 Drilled ahead at 4280'.
- 6/10/84 Drilled to 4355'. Logged the well. After viewing the log and due to the good results of DST #4, it was decided to set 5 1/2" casing 1' off bottom at 4354', cemented with 175 sacks of 50/50 Pozmix, .75% CFR-2, 5# Gilsonite in 125 sacks, 400# Salt for 20 bbls per flush, and 12 bbls superflush K. We will attempt to complete the well in ten days to two weeks. Released Mohawk Drilling Rig #8.

BROUGHER OIL, INC.

P. O. DRAWER 1367

GREAT BEND, KS 67530

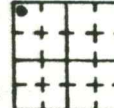
#2 "A" GARNER

20-25-13W

NW NW NW

CONTR MOHAWK DRILLING, INC. CTY STAFFORD

GEOL BRENT B. REINHARDT FIELD KACHELMAN



ELV 1963 KB SPD 5/31/84 ^{CARD}ISSUED 8/16/84 # P 145 B0 & 60 BWPD
1953 GL SIMP 4258-4268

API 15-185-21,992

| LOG | Tops | Depth Datum |
|-------------|-------|-------------|
| ANH | | 836 + 1127 |
| HEEB | | 3527-1564 |
| TOR | | 3546-1583 |
| DOUG | | 3564-1601 |
| BR LM | | 3681-1718 |
| LANS | | 3712-1749 |
| BKC | | 3990-2027 |
| CONG | | 4043-2080 |
| MISS | | 4073-2110 |
| KIND | | 4088-2125 |
| VIOLA | | 4135-2172 |
| SIMP SH | | 4252-2289 |
| 1ST SIMP SD | | 4256-2293 |
| 2ND SIMP SD | | 4274-2311 |
| ARB | | 4315-2352 |

8 5/8 " 424/300SX, 5 1/2 " 4354/300SX

DST (1) 3760-3819 (LKC E-G) / 45-60-60-60, 90' GIP, REC 30' GSY DM, 300' GSY M, W/OIL SPKS, 120' FROTHY G&OCM, 150' HO&GCM, 150' GSY MCW, SIP 1246-1225#, FP 307-307 / 328-349#

DST (2) 3940-60 (LKC K) / 45-45-30-45, REC 160' M, W/FEW OIL SPKS, SIP 1109-1014#, FP 63-63 / 74-74#, HP 2260-2207#, BHT 118°

DST (3) 4040-4105 (CONG, MISS) / 45-45-45-45, REC 90' GSY M, SIP 317-296#, FP 84-84 / 84-84#, HP 2260-2207#, BHT 118°

DST (4) 4230-90 (SIMP) / TIMES NA, REC 90' SO&GCM, 120' HO&GCM, 480' GSY MCO, SIP 444-444#, FP 254-296 / 307-338#, HP 2377-2366#, BHT 120°

MICT - CO, PF (SIMP) 4258-68 W/3 SPF, AC 1500G (15% MCA), FRAC 10.000# SD & FL, SWB DWN, SO, SET 2 7/8 " TBG AT 4335', POP, P 145 B0 & 60 BWPD, 7/5/84

RTD 4355-2392

LTD 4356-2393

COPYRIGHT 1984
INDEPENDENT OIL & GAS SERVICE, INC.
WICHITA, KANSAS

COMPLETION INFORMATION:

- 6/21/84 Moved in Mohawk Rig #5. Swabbed the well down to 3900'. Electra Log perforated the Simpson Sand from 4258-5268'. Tested the well after 30', 50' of MCO with a good show of gas. Halliburton treated the well with 1500 gls of 15% MCA at 9 bbls/min. Swabbed back the load into the pit until fluid went to oil.
- 6/22/84 Checked the fluid level, 500-210' of gassy oil and 100# of gas pressure. Tested for 2 hours.
- 6/23/84 Checked fluid level, 500' of fluid at 100% Oil. Tested the zone for 2 hrs. Zone made 2.34 bbls per hour at 100% Oil. Finished filling frac tank with fresh water. Halliburton fraced the well.
- 6/25/84 Opened Halliburton's valve after fraced well was on a vacuum. Swabbed frac water into pit until it started turning to oil. Swabbed back approximately 300 bbls of 500 bbl frac load. Tested the zone for 1 hour. Zone made 32.5 bbls per hour at 25% Oil.
- 6/26/84 Checked fluid level, 1300' of fluid. 1st pull had 300' of fluid at 100% Oil. Had 150# of gas overnight. Rigged up 4" sand pup and cleaned out 12' of frac sand from the bottom. Rigged down 4" sand pump. Ran in 2 7/8" tubing, tagged bottom. Picked tubing up 6' off of bottom. Started running in the rods. Ran into the well: tubing, seating nipple, mud anchor.
- 6/27/84 Finished running in the rods and pump. Spaced the well 1' off the seating nipple. Rigged down and moved off of location. Ran into well: polish rod, rod subs, rods, pump, and gas anchor. Moved off location.
- 6/29/84 Moved in DH Cook. Hung well off and long stroked pump and bump valves. No action. Tried to fill tubing using water truck but tubing would not fill. Started out with rods, could not feel pump unseat. Pulled rods and a 2 1/2 x 2 x 12' pump. Put 70 seating cups on new 2 1/2 x 2 x 12' pump. Ran pump and rods hung well on to pump. Started well to pumping. Well would not pump. Hung off and pulled rods and pump out. Strung up blocks and ready to pull tubing.
- 7/2/84 Pulled tubing for leak. Found leak in 86th jt split. Ran tubing back, replacing jt out with good used jt of equal length. Set down on tubing support. Unstrung blocks. Strung over rod line and ran in pump. ran back rods, subs and polish rod. Hung well on to pump. Started well pumping. Well not pumping. Hung off and pulled rods and pump. Strung up tubing blocks. Ready to pull tubing.
- 7/3/84 Pulled 133 jts 2 1/2" upset tubing, seating nipple and 2 1/2 x 15' mud anchor. Found leak in 130th jt split. Rigged up Hydrotest. Ran anchor, seating nipple and ran tubing testing as it was run. Blowed 1 jt. Tore down tester.
- 7/5/84 Picked up 2 jts from Chappal #1 to replace bad jts. Set tubing down on tubing support. Unstrung blocks. Strung rod line and ran pump. Ran rods, subs and polish rod. Hung well on to pump.
- 7/16/85 Moved in Pratt Well Service. Spent 1 1/2 jrs blowing the well down. Pulled polish rod, subs, rods, sub, and a BHD pump with a 6' gas anchor. Ran back gas anchor, BHD pump, sub, rods, subs and a polish rod. Hung well on and put to pumping. Rigged down and moved off location.

- 10/29/84 Moved in Hembree Well Service. Fished parted rod and changed pump.
- 10/31/84 Longstroked well and respaced.
- 11/19/86 Moved in Mohawk Rig #4. Pulled rods and pump. Shut down for night.
- 11/20/86 Pulled tubing. Rigged up Welex and perforated LKC "F" ZONE at 3793/1shot and perforated the LKC "E" ZONE at 3777/2shots. Checked TD with Welex and found top of lost mud at 4289'. Ran tubing and tools; set plug at 4010, packer at 3760'. Swabbed down, dry. Acidized with 750 gls of 15% regular acid at 6 3/4 bbls per minute with 1500#. Well on vacuum in 10 mins. Started swabbing down. After 3 pulls with swab, well started showing heavy black oil. Swabbed back 35 bbls of 40 bbls load. Well making about 50% oil with water appearing to be acid water. Shut down for night.
- 11/21/86 Checked fill up; fluid was 1300' from surface with 1600' of oil on top; swabbed down and started 1 hr test; well made 14 bbls fluid per hour at 60% oil. Retreated zones with 2000 gls of 15% double strength FE Super Heated Acid at 7 1/2 bbls. per min., 1600#. Well on vacuum in 10 mins. Acid load is 72 bbls. Started swabbing back; after 4th pull well started showing oil in fluid. Swabbed back 42 bbls with good show of oil. Shut down for night.
- 11/22/86 Checked fillup; fluid 2000' down. First 1400' all oil. Pulled tubing and tools out of hole; rigged up to swab casing. Started swabbing. Recovered 45 bbls in 2 hrs in getting to bottom, about 75% oil. Rig had engine trouble. Shut down for the night.
- 11/24/86 Well had lot of gas on casing. Found fluid 4100' down. Swabbed to bottom. Started 1hr swab tests;
1st hr 28 bbls, 50% Oil
2nd hr 15.5 bbls, 50% Oil
3rd hr 7.5 bbls, 50% Oil
Tore down swab tools. Ran tubing and rods back into well and started well to pumping
- 11/25/86 Tore rig down. Cleaned up location. Released Mohawk Rig #4.
- 11/29/86 Moved in Mohawk Rig #4. Well was not parted. Pulled the pump out. Waited for 1 1/2 hrs on the new pump. Ran the pump in and hooked up the well. Rigged down and moved off location.
- 2/10/87 Moved in Mohawk Rig #5 and pulled rods to part. Parted on 20th 3/4" rod, body break Replaced the rod and ran everything back in. Rigged down and moved off location.