

BROUGHER OIL, INC.

JOE E. BROUGHER, President

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

MILLER "A" #1
C SW NE, Sec 13-6s-36w
Thomas County, Kansas

COMPLETION REPORT:

Commenced: 4/7/84

Completed: 4/18/84

RTD: 4830'

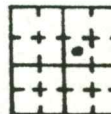
Surface Casing: 8 5/8" set at 388' with 275 sacks cement

Production Casing: 5 1/2" set at 4827' with 250 sacks cement

DRILLING INFORMATION:

- 4/7/84 Moved in Murfin Drilling and drilled surface hole.
- 4/8/84 Drilled to 389' and set 8 5/8" new casing and cemented with 275 sacks of 60/40 Pozmix, 3% CC, 2% Gel, plug down at 3:30. Drilling ahead at 1640'.
- 4/9/84 Drilling ahead at 3100'. Anhydrite 2977'-3014'.
- 4/10/84 Drilling ahead at 3823'.
- 4/11/84 Drilling ahead at 4185'.
- 4/12/84 Drilled to 4325' and ran DST #1 (4208-4325) LKC "A"-"G", REC: 2750' SW, SIP: 1340/1340, FP: 254-1126/1126-1280, HP: 2288/2231, BHT: 131°F
- 4/13/84 Drilling ahead at 4116'.
- 4/14/84 Drilled to 4471' and ran DST #2 (4471-4516) MARMATON, REC: 2' Mud, SIP: 66/57, FP: 37-41/41-41, HP: 2370-2350, BHT:120°F
- 4/15/84 Drilled to 4555' and ran DST #3 (4512-4555) PAWNEE, REC: 1500' GIP, 1780' CGO, 464' SMC GO, SIP: 1093/1110, FP: 246-630/662-825, HP: 2419/2386, BHT:127°F.
- 4/16/84 Drilled to 4600' and ran DST #4 (4562-4600) PAWNEE, REC: 5' OSpkM, SIP: 279/246, FP: 41-41/41-41, HP: 2386/2369, BHT:120°F.
- 4/17/84 Drilled to 4740' and ran DST #5 (4692-4740) CHEROKEE CONGLOMERATE, REC: 2240' MSW w/ few oil spks, SIP: 1101/1101, FP: 516-979/996-1059, HP: 2475/2443, BHT: 139°F.
- 4/18/84 Drilled to 4830' and logged well. After viewing the log and due to the excellent results of DST #3, it was decided to set 5 1/2" casing 1' off bottom and cement with 250 sacks of 50/50 Pozmix, 2% gel, 10% Salt, .75 E-Air, and 400 sacks of Halliburton Lite, 7# Gilsonite, 1/2# Flo Seal. We will attempt to complete in ten days to two weeks. Released Murfin Drilling, Inc.

BROUGHER OIL, INC. 13-6-36W
P. O. BOX 1367 #1 "A" MILLER C SW NE
GREAT BEND, KS 67530
CONTR MURFIN DRILLING CO. CTY THOMAS
GEOL FIELD W W M
ELV 3348 KB SPD 4/7/84 CARD ISSUED 7/12/84 P P 140 BOPD, NW
3343 GL MARM 4525-4529



LOG	Type	Depth/Datum	API 15-193-20,299
ANH		2975 + 373	8 5/8 " 388 / 275SX, 7 7/8 " 4827 / 250SX
B/ANH		3011 + 337	DST (1) 4208-4325 (LANS) / 30-45-30-45, REC 2750' SW, SIP
TARK		3869- 521	1310-1540#, FP 254-1 26 / 1126-1280#, HP 2288-2231#, BHT
TOP		4031- 683	131"
HEEB		4159- 811	DST (2) 4471-4516 (MARM) / 15-15-15-15, REC 2' MUD, SIP
TOR		4193- 845	66-57#, FP 37-41 / 41-41#, HP 2370-2350#, BHT 120"
LANS		4207- 859	DST (3) 4512-4555 (PAW) / 30-45-30-45, 1500' GIP, REC 1780'
MARM		4473-1125	CL GSY OIL, 464' SL MCGO, SIP 1093-1110#, FP 246-630 / 662-
PAW		4525-1177	825#, HP 2411-2386#, BHT 127"
FT SC		4607-1259	DST (4) 4562-4600 (FT SC) / 15-15-15-15, REC 5' OIL SPKD
CHER		4665-1317	MUD, PRESSURES NA
CONG		4710-1362	LST (5) 4692-4710 (CHER) / 30-45-30-45, REC 2240' MDY SW,
MISS		4812-1464	W/FEW OIL SPKS, SIP 1101-1101#, FP 516-979 / 596-1059#,
RTD		4830-1482	HP 2475-2443#, BHT 139"
LTD		4832-1484	MICT - CO PF (PAW) 4525-29, W/3 SPF, AC 500G (15% NE),
			SWB DWN, SO, P 140 BOPD, NW, 6/6/84

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WICHITA, KANSAS

COMPLETION INFORMATION:

- 5/16/84 Moved in Mohawk Rig #2.
- 5/17/84 Rigged up 5½" drilling tools. Drilled out DV Tool at 3000'.
- 5/18/84 Pushed DV Tool to bottom. Rigged up Welex and logged the hole. Swabbed hole down to 3500', DV tool at 3000'. Was tearing up the swab cups, rigged up Welex and perforated UPPER PAWNEE from 4525-4529/3SPF.
- 5/19/84 Picked up drilling tools and ran 14# bit through the DV Tool. Swabbed hole to bottom. Had a show of oil on top, no fillup overnight. DV tools is still tearing up the swab cups.
- 5/22/84 Ran 5½" swab to bottom. Had 100' of fillup over the weekend, mostly oil. Unloaded tubing and rods. Rigged up and ran 142 jts of 2" tubing with Howco's RTTS packer. Set packer at 4512'. Treated PAWNEE with 500 gls of 15% NE acid. Swabbed acid load back, got all oil from 3000'.
- 5/23/84 Fluid down 900' from surface. Swabbed hole down to approximately 4000'. Tested 20 bbls of oil per hour, no water. Rigged up and pulled tubing and packer.
- 5/24/84 Rigged up and ran 149 jts of 2" tubing with 1' seating nipple, 15' anchor and 1-4', 1-8 and 1-10' subs on top. Ran in pump with 188 3/4" rods and 1-6' and 1-8' subs on top. Closed in the well head.
- 5/25/84 Rigged down and moved off of location.
- 6/9/84 Moved in Larue Tank Service to furnish hot oil unit to heat and treat 2 stock tanks of oil. Used 5 gls of chemicals, 150# treating additives per tank.
- 12/12/84 Moved in Mohawk Rig #4 and started pulling rods out of the hole.
- 12/13/84 Finished pulling rods and tubing. Shut down due to blizzard conditions.
- 12/17/84 Rigged up Welex and perforated Lower Pawnee from 4540-4544'. Ran in Howco's retrievable bridge plug and packer. Set the plug at 4554 and the packer at 4534' (isolated the Lower Pawnee). Rigged up tubing swab and checked fluid, dry. Rigged up Howco and acidized with 500 gls of 15% NE acid, 31 bbls load back. Tubing went on vacuum after acid job. Waited for 30" and ran the swab. recovered 500' of water. Waited for 30" and recovered 250' of water. Waited for 30" and recovered 30' of water.
- 12/18/84 Ran swab and checked fluid level. Fluid at 4400', 5' of heavy oil on top. Moved the plug to 4534' and the packer to 4496' (upper Pawnee perforations). Ran swab, 15' heavy oil. Waited on Howco. Rigged up Howco and acidized with 1000 gls of 15% NE acid. Waited for 90" and swabbed the hole down. Fluid was at 3900'. Swabbed 650' of water and then turned to 100% Oil. Swabbed steady for 60", swabbed 7 bbls of oil.
- 12/19/84 Ran the swab and checked fluid level, fluid at 4200'. Swabbed 250' of oil. Tore down the swab. Pulled tubing, Howco's packer and plug. Ran mud anchor, seating nipple 150 jts of 2" tubing and 1-4, 1-8, and 1-10' subs, ran in 2x1½x10' pump, 2' sub, 188 3/4" rods, 1-6, and 1-8' subs and 16' polish rod. Hooked the well up.
- 12/20/84 Rigged down and moved off of location.

- 12/10/85 Moved in Poe Well Service. Had a low profile unit and cellar was full of oil. Checked well out and wouldn't pressure. Unseated adn tubing was full. reseated and didn't pump. Pulled rods and pump. Took pump into Northwestern at Colby. Shut down for day.
- 12/11/85 Got to location and then got word to pull tubing. Painted and laid tubing down and didn't find any leak. 1 jt was crushed. Shut down.
- 12/12/85 Got to locaiton. Waited on testers to finish. No leaks. Ran tubing into hole and replaced crushed jt 31.89 out, 31.92 in. Had to beat ice off most of the jts to get evelvator on. Ran new pump and rods. Put well to pumping. Rigged down and cleaned up location.
- 12/26/85 Moved in Poe Well Service. Longstroked well. Wouldn't pump. Pulled rods and pump. Pump stuck shut. Shut down for day.
- 12/17/85 Ran new pump and rods. Longstroked, had good blow. Hung on. Rigged down and put well to pumping.
- 2/13/87 Moved in Mohawk Rig #4 and pulled rods and pump. Replaced the pump and ran everything back in. Rigged down and moved off location.
- 3/3/87 Moved in Mohawk Rig #4 and pulled rods and pump. Pulled 7 jts of tubing, 8th jt had a split. Replaced the pump and 1 jt of tubing. Ran everything back in and rigged down. Moved off location.