



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

#8 MILLS "B"
NE NE SE 33-13S-15W
Russell County, Kansas

COMPLETION REPORT

Commenced: 8/19/85
Date Reached TD: 9/30/85
RTD: 3572'

Surface Pipe: 10-3/4" set @ 1002' (500 sx cmt)
Production Casing: 7" set @ 3404' (225 sx cmt)

- 9/6/85 Mohawk Drilling moved Rig #6 onto location and rigged up. Pressured the casing to 300 pounds for state test. Swabbed the hole down and rigged up for drilling.
- 9/9/85 Drilled 58' of cement. Ran the bailer and cleaned up the cement. Drilled on the plug and packer shoe.
- 9/10/85 Finished drilling the packer shoe. Ran the bailer to bottom and broke drilling tools down.
- 9/11/85 Ran the bailer and cleaned up bottom of hole. Swabbed the casing all day. Got ready to run the tubing.
- 9/12/85 Ran in 119 joints of 2 inch tubing. Halliburton acidized with 2500 gallons of double strength F.E. acid and 2 1/2 gallons of HAI-65. Pulled the tubing out.
- 9/13/85 Welex perforated the Arbuckle from 3324' to 3330'. Ran Otis MH3 packer and retrievable bridge plug. Ran in 3350' of 2 inch tubing. Swabbed the hole down. Swabbed it dry.
- 9/14/85 Ran the swab to see how much fluid was in the hole, 50' of muddy water. Treated by Halliburton and spotted acid on bottom. Swabbed back 48.35 bbl. Squeezed by Halliburton with 50 sacks of Hallied-9 and 75 sacks of Common.
- 9/16/85 Pulled 3324' of 2 inch tubing and Otis packer. Make up drilling tools. Started drilling out cement.
- 9/17/85 Drilled 27' of cement. Ran the bailer and cleaned up the hole.
- 9/18/85 Drilled out 35' of cement. Total amount of cement drilled out was 55'. Ran the bailer to check for sand, did have sand. Broke down the drilling tools and made up swab tools. Swabbed the hole down to 2700'. The retrievable bridge plug leaked.



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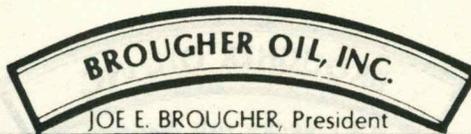
- 9/19/85 Swabbed through the tubing to check the retrievable bridge plug, it was not holding. Ran in 3350' of 2 inch tubing. Halliburton washed the sand off the retrievable bridge plug. Pulled 3350' of 2 inch tubing, packer and retrievable bridge plug. Welex reperforated from 3324' to 3330'. Set P.W. at 3390'.
- 9/20/85 Swabbed the hole down. Halliburton acidized with 500 gallons of 15% double strength F.E. acid. Swabbed the hole down to 1500'. Got ready to squeeze.
- 9/21/85 Ran in 3350' of 2 inch tubing & MH 3 Otis packer. Checked the plug and squeezed with 50 sacks Hallied-9 and 75 sacks of common cement.
- 9/23/85 Pulled 3350' of 2 inch tubing and Otis packer. Ran in 3350' of 2 inch tubing and Halliburton's Hydro-jet gun. Welex spotted the tubing.
- 9/24/85 Rigged up Halliburton for Hydro-jet. Cut casing from 3323' to 3329'. Pulled Hydro-jet tool and 3323' of 2 inch tubing. Ran in 3323' of 2 inch tubing. Set down on sand at top slot.
- 9/25/85 Washed sand off slot in casing. Set Otis packer. Swabbed the hold down, it stayed dry. Acidized by Halliburton with 300 gallons of 28% F.E. acid. Swabbed the hole down. Got back 15.85 bbl, short 4.17 bbl of having load.
- 9/26/85 Ran the swab to check fluid level, fluid was 2600' down. Had 700' of fluid with 100' of oil on top. Halliburton acidized with 750 gallons of 28% N.E. acid. Swabbed the hole down. Got back 20 bbl of the 35 bbl load. Tested--
- 1st 30 minute test .83 bbl fluid at 12% oil
 - 2nd 30 minute test .42 bbl fluid at 28% oil
 - 3rd 30 minute test .42 bbl fluid at 16% oil
 - 4th 30 minute test .42 bbl fluid at 33% oil
 - 5th 30 minute test .21 bbl fluid at 30% oil
 - 1st 60 minute test .83 bbl fluid at 29% oil
- 9/27/85 Swabbed the hole down. Overnight fill-up was 600' of fluid with 50' oil. Pulled Otis packer and 3300' of 2 inch tubing. Welex perforated Topeka from 2801' to 2804', LKC "A" zone from 3076' to 3080', LKC "B" zone from 3100' to 3102', LKC "D" zone from 3118' to 3120', and LKC "J" zone from 3253' to 3256'. Set the bridge plug at 3274'. Ran in Otis bridge plug, MH3 Otis packer and 3250' of 2 inch tubing. Swabbed the hole down. Shut in overnight.



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- 9/28/85 Checked overnight fill-up, 1000' of fluid, all water. Swabbed the hole down. Made 2 half hour pulls, made .42 bbl fluid with a trace of oil. Halliburton acidized with 500 gallons of 15% N.E. acid. Swabbed the hole down. Made 2 half hour pulls, made .83 bbl fluid total of both pulls with a trace of oil. Retreated with 750 gallons of 28% N.E. and 750 gallons of 15% N.E. acid. Swabbed the hole down. Lacked 12 bbl of getting the load back.
- 9/30/85 Checked for fill-up, 1200' with 50' of oil. Moved the plug up to 3150' and the packer to 3107'. Halliburton treated the perforations from LKC "D" zone 3118' to 3120' with 500 gallons of 15% N.E. acid. Swabbed the load back, no show of oil. Moved the tool up the hole and set the plug at 3110' and the packer at 3093'. Perforations are from LKC "B" zone 3100' to 3102'. Swabbed back all water, no show of oil. Set the retrievable bridge plug at 3090' and the packer at 3051'. Acidized with 500 gallons of N.E. acid. Swabbed the hole down, got the load back with a show of oil. Tested--
1st 60 minute test 5.42 bbl fluid at 5% oil
1st 30 minute test 1.24 bbl fluid at 9% oil
Shut in overnight.
- 10/1/85 Swabbed the hole down, fill-up was 1200' of fluid with 25' of oil. Tested--
1st 30 minute test 1.67 bbl fluid at 4% oil
2nd 30 minute test 1.67 bbl fluid at 10% oil
Moved the tool up the hole and set the retrievable bridge plug at 2838' and the packer at 2775'. Perforations are from 2801' to 2804' Topeka zone. Acidized with 500 gallons of 15% N.E. acid. Swabbed back 11.69 bbl, short on load. Tested--
1st 30 minute test .41 bbl fluid at 30% oil
2nd 30 minute test .41 bbl fluid at 33% oil
3rd 30 minute test .41 bbl fluid at 50% oil
1st 60 minute test .41 bbl fluid at 57% oil
- 10/2/85 Swabbed the hole down. Overnight fill-up was 600' of fluid with 200' of oil. Retreated with 1500 gallons of 15% N.E. acid. Swabbed back 17, short of load. Squeezed zones from 3118' to 3120' and from 3100' to 3102' with 100 sacks of cement. Pulled 10 joints and shut in overnight.
- 10/3/85 Pressured up on squeeze to see if it would hold. Pulled 3300' of 2 inch tubing and Otis packer. Rigged up drilling tools. Drilled out 42' of cement. Ran the bailer and cleaned up the hole.



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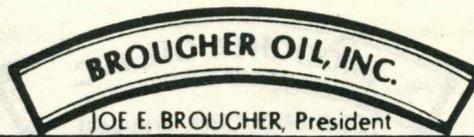
- 10/4/85 Ran the bailer 4 times to get the soft cement off bottom. Ran tool in and drilled 2' of soft cement. Ran the bailer and did not pick up any sand. Ran Otis packer and 3300' of 2 inch tubing in to get retrievable bridge plug. Washed the sand off the retrievable bridge plug. Pulled 3300' of 2 inch tubing and Otis packer, did not get down to the retrievable bridge plug.
- 10/5/85 Ran tool to bottom to clean up the hole. Did not hit any sand. Ran the bailer and got sand. Ran in 3280' of 2 inch tubing with over-shot. Washed the sand off the retrievable bridge plug. Sand did not come to top. Pulled 3280' of 2 inch tubing and the retrievable bridge plug.
- 10/7/85 Bailed sand off bottom of hole. Got ready to run the tubing.
- 10/8/85 Ran in 3380' of 2 inch tubing with stinger on bottom, 1 joint of 2 1/16 inch tubing and 2 1/16 x 2 inch swedge. Circulated sand off permatrieve got 15' of it but did not get to bottom.
- 10/9/85 Pulled 3380' of tubing, anchor joint was not there. Ran in 3380' of 2 inch tubing with anchor catcher. Pulled 3380' of 2 inch tubing with anchor joint. Make up casing swedge.
- 10/10/85 Ran in casing swedge, would not go. Changed the swedge to a smaller one. Came out of hole and did not have swedge. Ran in NL Acme's fishing tool. Fished the swedge out.
- 10/11/85 Ran in 3380' of 2 1/16 inch tubing. Could not wash down to plug. Pulled 3380' of tubing.
- 10/12/85 Make up drilling tools. Drilled out 15' of loose cement and sand. Ran the bailer and cleaned up on bottom of hole. Broke down drilling tools. Ran in 3380' of 2 1/16 inch tubing. Washed down to the permatrieve. Stung onto permatrieve and got off of it. Ran in 1 more joint to land tubing with. Stung back onto permatrieve and it would not hold. Lost the permatrieve or the tubing is parted.
- 10/14/85 Pulled 2800' of 2 1/16 inch tubing. Ran 2800' of 2 inch tubing with over-shot to fish tubing. Pulled 2800' of 2 inch tubing and the rest of the 2 1/16 inch. Ran in 3380' of 2 1/16 tubing and tried to get into permatrieve, failed.



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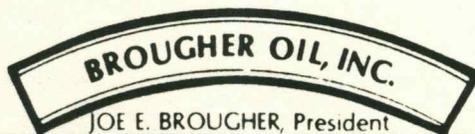
- 10/15/85 Tried to wash sand off plug with Halliburton. Pulled 3380' of 2 1/16 inch tubing. Ran 3380' of 2 inch tubing with anchor on bottom. Tried to pull permatrieve but failed. Pulled 3380' of 2 inch tubing.
- 10/16/85 Ran in 3380' of 2 inch tubing, 6 drill collars, hydraulic jars, bumper sub and stinger. Jarred into permatrieve until it pulled loose. Pulled 3380' of tubing, collars, hydraulic jar and bumper sub out, fish was not on it.
- 10/17/85 Ran tar block to see what kind of imprint it would show on bottom. Make up drilling tools. Drilled on permatrieve plug for 6 hours.
- 10/18/85 Broke down drilling tools. Rigged down and moved off of location.
- 10/18/85 Hembree Well Service drove rig #20 DDD to location. Had to have cat set unit. Rigged up unit. Rigged for tubing. Run wash pipe, drill collars and mill. Started running tubing. Shut down.
- 10/19/85 Hembree Well Service drove to location. Finished running tubing. Rigged up power swivel. Milled on packer, pulled mill. Changed out mill. Run tubing back in. Hooked swivel back on. Shut down.
- 10/21/85 Hembree Well Service drove to location. Milled on packer all day. Shut down.
- 10/22/85 Hembree Well Service drove to location. Milled on packer all day. Shut down.
- 10/23/85 Hembree Well Service drove to location. Pulled tubing and mill. Run new mill. Milled on packer. Swivel broke down. Shut down.
- 10/24/85 Hembree Well Service drove to location. Rigged up swivel. Milled on packer all day. Shut down.
- 10/25/85 Hembree Well Service drove to location. Rigged swivel down. Pulled mill. Run spear. Worked with it. Couldn't get ahold. Pulled spear. Run tapered mill. Milled on packer. Pulled mill. Run fishing tool. Speared into packer. Worked with it. Set hydraulic jars off. Pulled spear. Had top piece of mandrel. Shut down.



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- 10/26/85 Hembree Well Service drove to location. Waited on orders from Ron to wash pipe and mill and tubing. Picked up swivel. Milled. Shut down.
- 10/28/85 Hembree Well Service drove to location. Milled all day. Shut down.
- 10/29/85 Hembree Well Service drove to location. Pulled mill. Rigged up for block on sandline. Run jar block. Rigged up magnet on sandline. Run magnet. Run in new mill. Milled for rest of day. Shut down.
- 10/30/85 Hembree Well Service drove to location. Milled until noon. Pulled mill. Had a piece of the packer inside mill. Run magnet. Run mill back in. Milled for rest of day. Shut down.
- 10/31/85 Hembree Well Service drove to location. Milled on packer all day. Shut down.
- 11/1/85 Hembree Well Service drove to location. Milled on packer all day. Shut down.
- 11/2/85 Hembree Well Service drove to location. Pulled mill. Run magnet on sandline. Run for block on sandline. Run new mill. Milled on packer for rest of day.
- 11/4/85 Hembree Well Service drove to location. Milled on packer. Pulled mill. Run overshot. Pulled overshot. Had nothing. Shut down.
- 11/5/85 Hembree Well Service drove to location. Run tar block. Run spear. Pulled spear. Had nothing. Run spear again. Pulled spear. Had nothing. Run mary tooth socket. Pulled socket. Had nothing. Run mill back in. Hooked up swivel. Shut down.
- 11/6/85 Hembree Well Service drove to location. Milled on packer all day. Shut down.
- 11/7/85 Hembree Well Service drove to location. Milled on packer. Pushed packer to bottom. Pulled tubing. Layed down collars and wash pipe. Broke down Acme's tools. Waited on orders. Shut down.
- 11/8/85 Hembree Well Service drove to location. Held tools while Welex set Otis Permatrieve on wireline. Run disposal string in. Run production string in. Rigged for rods. Run single rods in. Had to clean a lot of threads. Spaced well out. Shut down. 1 joint 2 3/8" dual line - parallel anchor - 109 2 1/16" - 4' - 2' sub. Stinger - seat nipple - 108 2 3/8" - 6' sub. Permatrieve set at 3380'.



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11/9/85 Hembree Well Service drove to location. Rigged unit down.
Moved off. Drove unit to Ness City.