

COMPLETION HISTORY

4-15-80 MI & RU Action Well Service Rig #2. Nipple up 30P and circulating equipment. Ran 3 7/8" HOMCO mill, bit sub and 55 jts tubing all measuring 1769.93' and tag cement at 1772' KB. Cleaned out to "DV" tool at 1804' KB. Drilled on "DV" tool 3 hrs and made 11". Pulled 1 jt and SI for night.

4-16-80 Finished drilling top DV tool in 1 hr. Picked up 112 jts tubing and tag DV tool at 5415' KB. Drilled 7 hrs. Did not get tool drilled. Circulate hole clean. SI for night. Total of 217 jts tubing on location.

4-17-80 Drilled on lower DV tool 5½ hrs. POOH with mill and it was worn out. Ran new 3 7/8" HOMCO mill and drilled on lower DV tool 1 3/4 hrs. Total time on lower DV tool is now 14½ hrs. Circulated hole clean and SI for night. New mill is doing better. Have drilled 2' of lower DV tool.

4-18-80 Drilled on lower "DV" tool 4½ hrs. Total time on lower tool 18 3/4 hrs. Ran total of 199 jts tubing measuring 6423.13' and tag cement at 6414' KB. Drilled out to 6424' KB, circulated hole clean and POCH. Rig up Dowell and pressure test casing to 4000 psi, 5 min, held OK. SI for night.

4-19-80 PBTD 6424' KB. Ran 3 7/8" mill and 4½" casing scraper to 6424' KB, working through DV tools. Rig up Dowell and roll hole to 2% KCL water. POOH. Ran CBL VDL Log. Acceptable bond. Ran HALCO Speed-e-line drillable bridge plug and set at 5300' KB. Pressure tested casing and bridge plug to 4000 psi, 5 min, no bleed off. Perforated lower Gallup 3 JSPF 5238-46 with .38" holes. Laid down 38 jts tubing. Ran HALCO RTTS packer and seating nipple and 159 jts tubing all measuring 5144.67' and set packer at 5151' KB. SI for night.

4-20-80 Sunday-Crew off

4-21-80 PBTD 5300'. SITP zero. Rig up Dowell and pressure casing to 1000 psi. Acidized with 500 gallons 15% HCL with 2 gal inhibitor, 1 gal clay stabilizer, and 1 gal NE agent and 36 ball sealers. EDP 2800 psi at 2 bpm. Avg trt pressure 3200 psi at 5 bpm. Balled off at 4000 psi, with 3 bbl acid not yet to perfs. Released pressure to remove balls and put remaining 3 bbls acid away. ISIP 900 psi, 5 min SIP 850 psi, 10 min SIP 825 psi, 15 min SIP 800 psi. 44 BLW to be recovered. Released packer and lowered through perforations and reset at 5151' KB. IFL at surface. Made 5 runs and recovered 30 BLW and swabbed dry. Made 8 additional runs in 4 hrs and recovered 8 BLW with show of gas. FFL at seating nipple. 5 BLW yet to be recovered. No show oil. SI for night.

4-22-80 PBTD 5300'. SICP & TP zero. IFL 4100'. Made 2 runs and recovered 4 BLW and 1.6 BO. Released packer and POOH. Rig up Dowell and frack with 60,000 lbs 20/40 sand and 50,000 gallons 30# gelled 1% KCL water containing 1 gal/1000 gal F-75, ½ gal/1000 gal J-350, and 2 gal/1000 gal L-53. Flushed with 3548 gallons 1% KCL water. AIR 39 bpm at Avg trt pressure 1800 psi. ISIP 700 psi, 15 min SIP 600 psi. 1394 BLW to be recovered. Left SI overnight.

COMPLETION HISTORY CONTINUED

- 4-23-80 SICP 400 psi. Open well thru 2" to rig tank. Flowed back 6 3/4 hrs and recovered 221 BLW. 1173 BLW yet to be recovered. Ran 164 jts tubing measuring 5296.72' with seating nipple one jt up and tagged sand at 5284' KB. Pulled 3 jts and placed end of 161 jts tubing at 5203.30' KB. Closed pipe rams and SI well.
- 4-24-80 SITP 150 psi, SICP 125 psi. Open well and flowed back 43 BLW and died. IFL at surface. In 7 1/2 hrs and 35 runs, swabbed 185 BLW. 988 BLW yet to be recovered. FFL 4700'. OCP. Slight show of gas last 2 hrs. SI for night.
- 4-25-80 PBTD 5300. SICP and TP zero. IFL 1600'. Swabbed 100 BLW in 8 hrs. FCP zero. No show of gas. Had trace of oil in grind out at 2 p.m. FFL 4600'. 888 BLW yet to be recovered. SI for night.
- 4-26-80 PBTD 5300'. SICP & TP zero. Lowered tubing 2 jts and tagged sand fill at 5271' KB. (all perfs clear). Placed EOT 5203' KB. IFL 2600'. Swabbed well dry with 12 runs in 4 hrs ending at noon. Recovered 40 BLW and 4 BO. In 4 hrs ending at 4:30 p.m., recovered 8 BLW and 1 BO with hourly runs. Final CP 5 psi, FFL 5150'. For day, recovered 48 BLW, and 5 BO. 840 BLW yet to be recovered. Final oil cut 12%. Final fluid entry rate 2 bph. 10' flare of gas ahead of swab and dies.
- 4-27-80 Sunday-Crew off
- 4-28-80 SICP zero. SITP 80 psi. IFL 2600'. Recovered 3 BLW and 1/2 BO. POOH. Rig up Welex and set wireline set-tubing retrievable bridge plug (Baker) at 5170' KB. Rig up Dowell and pressure test plug to 4000 psi, 5 min, OK. Perforated upper Gallup 3 JSPF with 0.38" holes, from 5128-37' KB. Ran HALCO RTTS packer and 156 jts tubing and set bottom of packer at 5046.87' KB. Acidized with 500 gallons 15% HCL and 36 ball sealers. BDP 2200 psi. AIR 3 bpm at 1800 psi. Good ball action but no ball off. ISIP 775 psi, 15 min SIP 700 psi. Total load 37 bbls. SI for night.
- 4-29-80 SITP 100 psi, SICP 200 psi. Bled tubing pressure in 2 min, no fluid recovery. Bled casing in 3 min and recovered 1 BO. Ran swab. IFL 100'. Swabbed dry in 4 runs and recovered 22 BLW and trace of oil. Made 2 additional runs with no recovery. 15 BLW yet to be recovered. Lowered tubing 3 jts to 5145' KB and pressure tested bridge plug to 4000 psi, held OK. POOH. Dowell fracked with 60,000# 20/40 sand and 10,000# 10/20 sand in 60,000 gal ons 30# gelled 1% PGM water containing 1 gal/1000 gal F-75N, 1/2 gal/1000 gal J-350 defoamer and 2 gal/1000 gal L-53. AIR 27 bpm due to blended trouble, could have gotten more. Max trt pressure 2500 psi, Avg trt 1800 psi. Final trt pressure 2100 psi. ISIP 1250, 15 min, SIP 1050. Total sand to be recovered 1511 bbls. Left SI for night.
- 4-30-80 SICP 680 psi. Open well to frack tank through 2", flowed back 82 BLW in 2 hrs and died. Ran 159 jts 2 3/8" tubing with seating nipple one jt up all measuring 5139.86' and tag sand fill at 5108' KB. Pulled 1 jt and landed 158 jts at 5108' KB. IFL 100'. Made 16 runs in 4 1/2 hrs and recovered 95 BLW. FFL 2900'. Total for day, recovered 177 BLW. 1334 BLW yet to be recovered. SI for night.

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COMPLETION HISTORY CONTINUED

5-1-80 SITP 25 psi, SICP zero. IFL 1600'. Made 7 runs and recovered 31 BLW and cut oil at 10%. For day, made 23 runs and recovered 77 BLW and 8 BNO. Final fluid level 4900'. Final CP 150 psi. 1257 BLW yet to be recovered. Good gas all day. SI for night.

5-2-80 SICP 375, SITP 150 psi. Bled both down in $\frac{1}{2}$ hr with no liquid flow. POOH with 158 jts tubing. Ran Baker hydrostatic bailer and retrieving head and 159 jts tubing and tag sand at 5139' KB. Cleaned out sand and retrieved bridge plug at 5170' KB. Ran bailer and 163 jts tubing and tag sand at 5267' KB and cleaned out to drillable bridge plug at 5300' KB. POOH and SI for night.

5-3-80 PBTD 5300' KB. SICP 40 psi. Bled off in 5 min with no flow of fluid. Ran final production tubing as follows:

	Standard Seating Nipple	1.08'
<u>159</u>	jts 2 3/8" tubing	<u>5136.18'</u>
159	jts	5137.26'
	landed below KB	<u>8.80'</u>
	tubing landed at	5146.06' KB

Nipple down BOP and nipple up tree. IFL 1000'. Had 8% oil after 7 runs and 57 BLW recovered. Made total of 20 runs in 5 hrs and recovered total of 92 BLW and 4 BNO. Final CP 100 psi. Final FL 4800'. Final oil cut 3%. SI for weekend. Total load to be recovered 2002 bbls.

5-4-80 Sunday-Crew off

5-5-80 PBTD 5300'. SICP 430 psi, SITP 50 psi. Bled tubing down, no liquid flow. IFL 2500'. Made 18 runs in 8 hrs and recovered 55 BLW and 2 BO. Well was swabbed down to 5000' in 14 runs. Flowed 40 min, gas only-FTP 4 psi on 2". Made hourly runs last 4 hours and recovered 7 BLW. No recovery last hour. 1947 BLW yet to be recovered. Oil cut at 3:30 was 10%. Final CP 225 psi. After well was swabbed down, would flow gas for 10 minutes at FTP 4 psi and die. SI for night.

5-6-80 SICP 580 psi, SITP 150 psi. Bled tubing down in 5 min, no fluid flow. IFL 3000'. Swabbed dry in 3 runs and recovered 8 BLW and 5 BO. Kicked off flowing gas for $\frac{3}{4}$ hour and died. CP went down to 225 psi. Made hourly runs for 7 hrs and recovered 8 BLW and 5 BO. Final fluid level 5100'. Final grind out 80% oil. Final CP 150 psi. Will flow 5 to 15 min after each swab run. Good gas all day.