

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

TRIPPLICATE

MISCELLANEOUS REPORTS ON WELLS

HOBBS OFFICE OCC

1954 APR 2 2:48 PM

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within \_\_\_\_\_ days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test-of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	<input checked="" type="checkbox"/>
REPORT ON RESULT OF PLUGGING WELL		REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	

3-29-54 (Date) Odessa, Texas (Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Sun Oil Company (Company of Operator) H. D. McKinley Well #4 (Lease)  
Bickerstaff & Tibbets (Contractor), Well No. 4 in the SW 1/4 NE 1/4 of Sec. 5  
T. 19 S., R. 38 E., NMPM., Hobbs Pool, Lea County.

The Dates of this work were as follows: \_\_\_\_\_

Notice of intention to do the work (was) (was not) submitted on Form C-102 on \_\_\_\_\_, 19\_\_\_\_, (Cross out incorrect words)

and approval of the proposed plan (was) (was not) obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

See attached sheets for details of this workover.

Witnessed by John M. Sweeney (Name) Sun Oil Company (Company) Foreman (Title)

Approved: OIL CONSERVATION COMMISSION  
S. J. Stanley (Name)  
Engineer District 1 (Title) APR 2 1954 (Date)

I hereby certify that the information given above is true and complete to the best of my knowledge.  
Name: O. J. Albright  
Position: Superintendent  
Representing: Sun Oil Company  
Address: Box 2792, Odessa, Texas

H. D. McKinley #4

- 2-11-54 Moving in rig and rigging up.
- 2-12-54 7 A to 11 A rigging up. 11 A - 7 A attempting to kill well. Pumped 40 bbls. water down 1½" tubing. Pumped 150 bbls down 3" tubing. Pumped 400 bbls. down 7" casing. Pumped 70 bbls. down 9 5/8" casing. Pressure 600-750#. Now pumping in 1½" tubing at rate of 1/2 bbls. per min. at 600# press. 7A press. on 3" tubing 50# to vacuum, start 1000#. Press. on 7" casing 125# to vacuum, start 1000#. Press. on 9 5/8" casing 125# bleeding gas thru open 2" valve. Will build up to 800# shut in with no indication of communication into 7" casing. Think gas coming from Brown Lime Section 2800 to 2900'. Will shut down rig pump if 7" casing 3" tubing and 1½" tubing dead. Will attempt to pull 1½" tubing and packer.
- 2-13-54 7A - 8:45A attempting to kill well. 8:45 A - 10:45 A taking 2 hours press. build up on 7" and 9 5/8" casing. 10:45- 3P bleeding off gas on 9 5/8" and 7" casing. 3P-6P installing Shaffer BO preventer. 6P-1A - changing rams in B. O. preventer and preparing to pull 3" tubing. 9 5/8" casing press. 110# open, 20 min. shut in press. 500#. Ran water pump, 11 hours at 70 BPH
- 2-14-54 7A - 12:30P mixed mud Halliburton, 140 bbls. mud wt 9.2, vis. 42, 12:30 to 4P pumping mud in 9 5/8" casing. to kill gas flow. 10 bbls water, 98 bbls. mud. 4P to 6P nipple up. Install BOP, pulled on packer stuck, pulled 80,000#. 6P to 10P ran Dialog, top 1½" fish inside 3" at 4053'. Located collars on 3" tubing 4023-4001 & 3980'. Ran string shot at 4023' backed off 3" tubing. 10 P to 5 A lay down 3" tubing, 187 joints, leaving (two) joints above packer. Top fish 4001'. 5 A to 7 A changed rams in BOP, gas press, back on 400#, press. bleeding and burning at well. Picking up 5½" wash pipe w/rotary shoe & 2 7/8 DP to wash down to top of packer. Last 10 joints of 3" EUE tubing corkscrewed.
- 2-15-54 7A to 8A changed flow line and bleed down 9 5/8" casing. 8A to noon pick up 2 7/8 D.P. w/5½" OD washover pipe and 6 1/8" rotary shoe. 12 Noon - 2:15 p washover 3" tubing to top of packer. 2:15 P to 4P pull washover pipe, rec. 2 jts. 3" tubing and fishing neck on Robinson Packer. 42.79 of 3" tubing. 4P to 8:30 P wait on 4 1/8 overshot w/1 1/2" grappers. 8:30 P to 10:45 P run Down overshot. 10:45 to 1A pull overshot rec, 1 jt. of 1 1/2" tubing. 1 A to 4A run Taper Tap screwed into packer. 4A to 6A pull taper tap, rec. 4" of 3" Mandrel. Showed to be an old break on bottom piece of fish. 5A to 7A going in hole w/ taper tap. Run water pump 15 hours, hole taking approximately 50 bbls. water per hour.

leaving in rig and starting up.

11-1-41

VA to IA starting up. IA - 8:15 A attempting to fill well. Pumped 40 bbls. water down 1 1/2" casing. Pumped 100 bbls. down 3" casing. Pumped 400 bbls. down 7" casing. Pumped 100 bbls. down 9 1/2" casing. Pressure 600-700 psi. Flow pumping in 1 1/2" tubing at rate of 1 1/2 bbls. per min. at 100 psi. VA pressure at 3" tubing 500 psi. Pressure 1000 psi. Pump on 7" casing 100% to vacuum, about 1000 psi. Pump on 9 1/2" casing 100% bleeding gas out of 3" valve. Will bleed up to 8000 psi in view of indication of communication into 7" casing. Fluid gas coming from brown shale section 2800 to 2900. Will start down rig pump in 7" casing and 1 1/2" tubing dead. Will attempt to fill 1 1/2" tubing and packer.

11-1-41

VA - 8:15 A attempting to fill well. IA - 10:15 A starting to pump. Pumped 100 bbls. up of 7" and 9 1/2" casing. 10:45 - 3P bleeding off gas on 9 1/2" and 7" casing. 3P-3P installing checker 10 preventer. 11:15 A - 3P-3P opening and preparing to pull 3" tubing. 3" casing pressure 1100 psi. Shut in pressure 2000. Per. lower pump, 11 hours at 70 RPM.

11-1-41

VA - 12:15 P mixed mud filled down 100 bbls. and up 9 1/2" and 7" casing. 12:30 to 1:15 P pumped mud in 9 1/2" casing to fill gas flow. 10 bbls. water, 90 bbls. mud. AP to 6 1/2" nipple up. Install 30P, pulled on water pump, pulled 80,000 psi. CP to 1 1/2" run riser, top 1 1/2" fish handle 7" at 1000 psi. Located collar on 7" tubing A08-A001 & 3180'. Run string shot at 1000 psi packed out 3" tubing. 10 P to 2 A lay down 3" tubing, 12V joints, leaving (two) joints on packer. Top fish A001. 5 A to 7 A changed mud in 30P, gas pressure back on 4000 psi, bleeding and turning 3" wash pipe rotary shoe - 2 7/8 DP to wash down to top of packer. Last 10 joints of 3" BHP tubing corrected.

11-1-41

VA to IA changed mud in 30P, 3" casing. 3A to 3B pick up 2 7/8 D.P. wash pipe 3" tubing to top of packer. 2:15 P to 3P fill 12 bbls. - 2:15 P washover 3" tubing to top of packer. 2:15 P to 3P fill washover pipe, top 3 joints. 3" tubing and fishing neck on Robinson packer. 3:30 P to 4:30 P run down overshot. 10:15 A to 11 A pull overshot out, 1 1/2" of 1 1/2" tubing. 1 A to 2 A run labor tap screwed into packer. 2 A to 3 A pull labor tap, 3" handle. Shovel to be set off break on bottom place of fish. 3 A to 4 A rotary hole wash pipe. Run water pump 15 hours, hole taking approximately 10 bbls. water per hour.

11-1-41

2-16-54

7A - 8A run Taper Tap. 8A - 12 Noon fish and pull out of hole rec, 26" of 3" mandrel. All of mandrel. 12 Noon, 1:30 P run Bowen spear caught 3" anchor. 1:30 P-3P Jar on fish. 3P-6:30P pull out of hole, recover all of packer less rubber and all of 3" anchor plus 1 1/2" tubing and packer. 6:30 - 9:30 p.m. ran Baker casing scraper to bottom of 7" casing. 9:30 - 10 P ran collar locator and junk ring Dialog. 10-10:30 P ran and set Baker Model K magnesium bridge plug at 3890'. Dialog TD 7" casing seat 3955', our TD 3932. 10:30P-7A run Dialog. Survey 7" casing 0-3880'. Possible holes 3263-3316-3335-3410. Casing from 3000'-3400' very thin 20% left. From 77' to 3790' found 52 bad collars according to log no pipe left in collars. Preparing to run Baker test packer and test casing for holes. Run water pump 20 hours. Hole taking approximately 50 bbls. per hour. After setting bridge plug and filling up, took 20 bbls. after setting 1 hour.

2-17-54

7A to 10:15 A ran Baker test packer to test bridge plug 1500# O.K. 10:45 A-1 P perf. 4 Jet shots at 2720'. Lane Well. 1P - 3P run Baker test packer circulate out 7" perf. until clean. 3P - 3:30 P pull packer. 3:30 - 4P run Baker Model K magnesium retainer set at 2670'. 4P-5:45 P circ. out 7" and 9 5/8" casing communication. 5:45-8:30 P run Baker test packer. 8:30-9:45P locate hole in 7" at 2511'. 9:45 P-10:45 P cement under retainer at 2670'. Perf. at 2720-back to 2511 with 45 sacks common neat. 10:45-11:45 P pull DP and stringer. 11:45-12:45 A run test packer. 12:45-4A circ. at 2511 with 1500-2000# press. 4A-5A pull test packer. 5A-5:30 A run Baker Model K magnesium retainer set prematurely at 1430'. 5:30-7A prep. to drill out retainer.

2-18-54

7A-12 Noon drilled out retainer at 1430'. 12 Noon to 2 P going in hole with Baker Model K magnesium retainer set at 2460'. 2P-2:30P circ. water and hook up Halliburton. 2:30-3:15 P - mixing and cementing w/400 sacks Trinity Inferno Slo-Set. Max. pump press. 2800# final 400# circ. 35 sacks completed 3:15 P. 3:15 P-4:15 P pulled DP and stringer. 4:15 P-7A nipped up and WOC.

2-19-54

7A-12 Noon WOC. 12 Noon 1 P perf. through 7" and 9 5/8" at 160' and circ. until clean. 1P-1:30 P running Baker retrievable, and cemented through perf. at 160' with retrievable set at 90' w/75 sacks common cement. Comp. 120x 1:30 P circ. cement out 13 3/8" casing. 1:30 P to 1:30 A WOC. 1:30A to 7A - drilled cement from 120 to 160' and drilled retainer at 2460' and cement to 2511'. Now drilling retainer at 2690'.

2-20-54

7A to 8A finished drilling retainer and cement at 2690'. 8A-9A tested 7" casing 500# 30 min. o.k. 9A-12:30 P made trip to remove casing scraper. 12:30 to 2 P drilling bridge plug at 3890. 2P-3P washing to bottom 4200 and circulating. No circulation. 3P - 6P laying down 2 7/8" D.P. 6P-12:30 A ran and cemented 133 jts. 5 1/2" casing. Seat 4200 FC at 4156. Cemented w/56 sacks 4% gel, Trinity Inferno Cement. Comp. 12:30 A 2-20-54. 12:30 A-7A WOC. Well run Temperature Survey 12 Noon



- 2-21-54 Hippled up, ran temperature survey found top of cement at 4050'. Picked up tubing and tested 5½" casing w/1000#-30 mn. e.k. Perf. 5½" casing w/Lane-Wells at 4000'. 4 Jet Shots - Set Medel K retainer at 3953'. Squeeze w/50 sacks common, 6% Gel. Job completed at 12:30 A, no pressure. Last 4 bbls. went in under vacuum, cleaned perforations w/ set 8 hours and squeeze again, w/50 sacks common, 6% gel, and 3 sacks Perlite.
- 2-22-54 Squeeze Job #2 retainer @ 3953. Mixed 50 sacks common 6% gel, 3 sacks Stratacrete Job completed 10:00 A no press. on vac. cleaned perf. #3 mixed 50 sacks common 3% gel. w/12 sacks Stratacrete 30# floeal. Job. completed 6:30 P no press. on vacuum, cleaned perf. Job #4 mixed 25 sacks common 4% gel w/20# floeal. Job complete 3:30 A no press. on vacuum cleaned perf. WOC.
- 2-23-54 WOC 7A-12 Neen pulled stringer out of retainer to let fluid equalize, in 5½" casing set back in retainer mixed 100 sacks common 6% gel w/1/2# Floeal. Cemented through perf. at 4000' followed cement w/ 1 1/2 bbls. water. Broke Halliburton connection at floor. Cement on vacuum for 21 minutes. Comp. at 1 P. Pulled tubing cement shaved on inside walls of tubing. On 23rd stand app. 1380' tubing out of hole at 2:30 P. Ran Halliburton measure line after 8 hrs. check ed cement in 5½" casing at 3156'. Must be scattered, fluid level at 1646'.
- 2-24-54 7A-8A WOC and filling 7" casing w/water. 8A-9:30 A going in hole w/bit and casing scraper. 9:30-12:30 drilled on retainer at 3953. 12:30-2P drilling cement to 4000' and checking 5½" casing w/water standing full. No pressure applied. 2P-4:30 P drilling FC and cement to 4198'. 4:30-6:30 p circulated. 6:30-8P pulling tubing and bit. 8P-12:30 A P.G.A.C. run Gamma Ray and O 4201 - their 4202. 12:30 A-7A perforate 4 Jet SPF-4087-4201'. Total 456 shots. 5½" casing standing full after perforating. Prep. to run 2" EUE tubing and packer.
- 2-25-54 Ran 2" EUE tubing, seat 4036.88 open ended. Top of anchor 4005.97 w/Otis collar stop. Top of packer 4000.11. Top of hold down 3997.81. RDB to TH 9'. 1st attempt run and set packer did not have enough weight on packer and had sheared pins in hold down. Pulled tubing out of hole and reran after replacing shear pins in American hold down. Rig released at 10 P (2-24-54)

10-1-1

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