

NEW MEXICO OIL CONSERVATION COMMISSION  
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Getty Oil Company (formerly Pacific Western) operated by Skelly Oil Co.  
at time of work.  
(Address)

LEASE A. E. McKinley WELL NO. 2 UNIT R S 30 T 18S R 30E  
DATE WORK PERFORMED June 3 - July 7 POOL Hobbs  
1954

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off  
☐ Beginning Drilling Operations ☐ Remedial Work  
☐ Plugging ☒ Other To repair csg. leak in 7" csg.

Detailed account of work done, nature and quantity of materials used and results obtained.

On June 3, 1954, Hobbs Pipe and Supply Company moved in rotary work-over rig preparatory to squeezing leaks and running a string of 5" OD casing. Pulled 3" tubing into 4032'. Killed over packer and pulled same. Set bridge plug with wire line @ 3650'. Dumped 2 sks. Cal-seal on top of plug, filling to 3640'. Tested casing for leaks @ 200', 250', 750', 900' and 910'. Found leaks in 7" OD casing at approximately 227-903'.

Perforated 7" casing at 2800' with 4 shots. Ran 2" tubing with HRC packer and set packer at 1500'. Pressured up on perforations at 2800' to 1400#, but could not break circulation thru perforations at 2800'. Pulled tubing and packer and perforated 7" casing at 2600' with 4 shots. Pressured up on perforations to 1600#, but could not break circulation thru perforations at 2600'. Pressured up to 1600# behind 7" casing and could not break circulation thru perforation at 2600'. Pulled tubing and packer and perforated 7" casing at 2450' with 4 shots. Ran tubing with packer and set at 2337'. Pressured up to 1600# and could not break circulation thru perforations at 2450'. Lowered tubing to 2830', circulated 250 bbls. water down thru 7" casing and back thru 2" tubing to wash over perforations. (Cont. on reverse side)

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. \_\_\_\_\_ TD 4202 PBD 4201 Prod. Int. \_\_\_\_\_ Compl Date 7-7-1954  
Tbng. Dia 2" Tbng Depth 4156 Oil String Dia 5. Oil String Depth 4202  
Perf Interval (s) 4114-4126', 4129-4138', 4145-4150'  
Open Hole Interval \_\_\_\_\_ Producing Formation (s) Grayburg - San Andres

RESULTS OF WORKOVER:

	BEFORE	AFTER
Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____
Witnessed by _____	_____	_____

(Company)

OIL CONSERVATION COMMISSION

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Date \_\_\_\_\_

Name H. P. Shackelford  
Position Area Supt.  
Company Tidewater Oil Co., operator for Getty  
Box 547  
Hobbs, New Mexico Oil Co.

Raised tubing, reset packer at 2337' and pressured up on casing perforations at 2450' to 1600#, but could not break circulation behind 7" casing. Pulled tubing and packer and perforated 7" casing at 1500' with 4 shots. Ran 2" tubing with HRC packer and set packer at 1350'. Pressured up to 1400# on casing perforations at 1500' and broke circulations thru perforations. Lowered packer to 1650' and broke circulations thru perforations at 2450'. Lowered packer to 2337' and circulated down thru 7" casing perforations at 2450' and up thru 7" and 9-5/8" casing annulus. Pulled 2" tubing and HRC packer. Ran 2" tubing with Halliburton DM squeeze packer and set packer at 2343'. Squeezed thru perforations 2450' with 450 sacks cement at maximum pressure of 600#. Circulated out 20 sks. cement thru 9-5/8" x 7" Bradenhead. WOC 39 hours and went back in hole and found top of cement inside 7" casing at 543'. Drilled out cement to 2215' and found no cement in 7" casing from 2215' to top of Halliburton DM squeeze packer at 2343'. Drilled out packer and cement to 2800'. Ran bit and casing scraper to top of cal-seal plug at 3640'. Pulled tubing and removed casing scraper. Went back in hole with 6-1/4" bit and drilled out cal-seal and umbrella plug set at 3650'.

Well kicked off and started unloading drilling fluid. Mixed mud, killed well and reamed hole to T.D. 4202'.

Ran Dowell Hot-Wire survey to locate water zone. Found section 4010-4070' taking 30 Gals. fluid per minute and section 3900-3940' taking fluid at rate of 20 Gals. per minute. Both sections started taking fluid at 500# and pressure dropped to 225#

Ran 127 Jls. (4190', 5" OD 54 13# 4-55 SS R-2 "A" Cond. casing #/RT&C and set at 4202' and set Halliburton DV tool at 3802'. Cemented around 5" OD casing shoe with 100 sacks 4% gel plus 1/4# flocele per sack. Opened DV tool at 3802' and circulated out 45 sacks cement. Circulated thru DV tool at 3802' for 6 hours and then cemented thru DV tool with 350 sacks 4% gel. Cement circulated to surface. WOC and then drilled out cement to DV tool set at 3802'. Tested casing shut-off. Shut-off tested okay. Drilled cement out to 4200-50' and tested casing shut-off. Shut-off tested okay.

Ran Lane-Wells Gamma Ray and Neutron Surveys.

Perforated 5" OD casing for production with Lane-Wells A-2 bullets as follows:

4114-4126'	- (12')	- 48 shots
4129-4138'	- (9')	- 36 shots
4145-4150'	- (5')	- 20 shots
<u>TOTAL</u>	<u>(26')</u>	<u>- 104 shots</u>

Ran 2" tubing with packer and set tubing at 4156' and set packer at 4098'. Displaced mud with water and water with oil. Pulled swab 6 times and recovered 12 bbls. mud-cut load oil. Shut well in for 2 hours to pressure up. SITP 500#. Opened up thru 2" tubing and well flowed 20 bbls. mud-cut oil to pits. Turned to tanks and next hour flowed 12 bbls. new oil.

Shut well in at noon on July 5, 1954 and started tearing down work-over rig. Completed tearing down at noon on July 6, 1954. SITP 960#. Opened up and next 6 hrs. flowed 34 bbls. oil thru 2" tubing. Next 7 hrs. flowed 40 bbls. clean oil, no water thru 2" tubing, TP 100-125#. Placed well on 18/64" choke and well flowed 38 BO in 24 hrs., T.P. 550#. Placed well on 20/64" choke and well flowed 50 BO in 24 hrs., T.P. 450#.

Tested well for several days and production increased daily. After stabilizing the well was tested and found to be capable of producing approximately 200 BOPD thru 20/64" choke, COR 2060/1. Well is presently producing top allowable of 39 BOPD. Job completed July 7, 1954.