

NEW MEXICO STATE LAND OFF. <sup>2</sup>  
OFFICE OF THE STATE GEOLOGIST  
SANTA FE, NEW MEXICO

### MISCELLANEOUS REPORTS ON WELLS

Submit this report in duplicate to the State Geologist or proper Oil and Gas Inspector within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of water shut-off, result of abandonment of well, and other important operations, even though the work was witnessed by the State Geologist or Oil and Gas Inspector. Reports on minor operations need not be signed and sworn to before a notary public, but such operations should be witnessed by an Oil and Gas Inspector if possible.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS	REPORT ON DEEPENING WELL
REPORT ON RESULT OF SHOOTING WELL	REPORT ON PULLING OR OTHERWISE ALTERING CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	REPORT ON REPAIRING WELL
REPORT ON RESULT OF ABANDONMENT OF WELL	<b>Report on setting packer and treating with acid</b>

Midland, Texas, Feb. 19, 1935

Mr. E. H. Wells State Geologist,

Santa Fe, N. Mex.

Following is a report on the work done and the results obtained under the heading noted above at the The California Co., N.M. State 1 Well No. 2 in the

SW/4 SE/4 COMPANY OR OPERATOR 29 of Sec. 29, T. 18-3 LEASE, R. 38-E, N. M. P. M.,

Oil Field, \_\_\_\_\_ County.

The dates of this work were as follows: See attached history.

Notice of intention to do the work was ~~(was not)~~ submitted on Form SG 105 on 5-16-34, 19\_\_\_\_, and approval of the proposed plan was ~~(was not)~~ obtained. (Cross

out incorrect words.)

#### DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

SEE ATTACHED HISTORY

DUPLICATE

Subscribed and sworn to before me this

19th day of February, 1935

W. C. Myerick

NOTARY PUBLIC.

My commission expires May 31, 1935

I hereby swear or affirm that the information given above is true and correct.

Name WM. SIMPSON *Wm Simpson*

Position General Supt.

Representing THE CALIFORNIA COMPANY

Address Drawer "R", Midland, Texas

Remarks:

*Wesely*

NAME

TITLE

PHILIP M. HARRIS, Editor

THE CALIFORNIA COMPANY

STATE WELL 1 #2

LEA COUNTY, NEW MEXICO.

This well had not been produced for some time because it was not possible to maintain a reasonably low gas-oil ratio except at extreme low rates of flow.

It was believed the well should produce a portion of the unit allowance. Therefore, it was proposed to set a packer and treat the lower portion of the white lime producing zone with acid.

On May 15, 1934, rigged up and killed well with clear water, using Halliburton pumps. Casing pressure of 1220# and tubing pressure of 1220# were reduced to 0# with an estimated 800 barrels water. Removed Christmas tree and tubing head and installed blowout preventer. Shut down 15 hours on account working daylight. Estimated 6000 barrels water pumped into the well to keep it dead during this period.

On May 16, 1934, pulled all (4150') of 3" tubing and reran with packer. Tubed to 4171' with 3", 9.3#, U.E. tubing, including 5" x 80" Robinson, spiral wrapped, canvas anchor packer whose overall length is 14'. Bottom of packer set at 4110'. Packer collapsed 3' when set. Tubing perforated with 35 - 1/2" holes from 4147' to 4156'.

3 hours removing blowout preventer and installing Xmas tree and new National tubing head. Estimated 5200 barrels water used to keep well dead, while pulling and rerunning tubing.

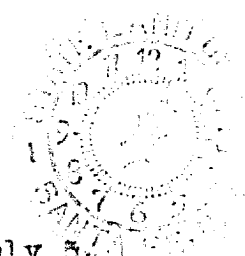
Total amount of water pumped into well during entire job estimated to be 12000 barrels.

On May 17, 1934, attempted to swab well in. Swab would not go down hole. Ran paraffine scraper and removed paraffine from walls of tubing.

On May 18, 1934, found top of fluid at 1180'. Well commenced to flow at 6:30 P.M. after swabbing 10 hours and lowering fluid to 2500'.

Flowed well into pit thru open 3" tubing total of 24-1/2 days during the period May 18, 1934, to June 13, 1934, to remove water pumped into hole. T.P. 0# and C.P. 1200# to 1180# while flowing. Cut reduced from 40% to 6% BS&W.

THE CALIFORNIA CO., N.M. STATE 142



Flowed into tanks from June 14, 1934, to July 3, 1934, thru open 3" tubing and produced an average of 132 barrels of oil, 13 barrels water and 615 M.C.F. gas daily. Tubing pressure 0# and casing pressure 1180#.

Well stood shut in from July 6, 1934, to December 12, 1934. Casing pressure 1180# to 1240#.

On December 13, 1934, the well was produced to clean out any accumulated water before treating with acid.

24 hours Ending 7 AM	Hours Flowed	Size Choke	Bbls. Fluid	Cut BS&W	Tubg. Press.	Csg. Press.
Dec. 14	19	5/8	165	1 1/2/10%	1000-80	1250
15	24	5/8	180	1 1/2	80	1250
16-18	Shut in preparatory to treating with acid.					

On December 18, 1934, treated formations below the packer set at 4110' with 1000 gallons Dowell XX solution, pumped in thru 4171' of 3" tubing perforated from 4147' to 4156' by Dowell Service, Inc.

Details of acid treatment follow:

Time	I.P.	C.P.	REMARKS
7:00 AM	930#	1250#	Opened well thru 3/4" choke
7:10	80#	1250#	Shut in and rigged up to treat
8:45	700#	1250#	Commenced pumping oil into tubing.
9:15	500#	1250#	
9:45	720#	1250#	
9:50	920#	1250#	
10:00	1560#	1250#	Completed pumping 30 barrels of oil into tubing
10:05)	400	1250#	Commenced pumping Dowell XX solution into tubing
) 400-1250#			
1:55PM)		1250#	Completed pumping 1000 gallons Dowell XX solution into tubing.
2:00 PM	1100#	1250#	Commenced pumping oil to flush acid out of tubing and into formation
2:25	800#	1250#	Acid started into formation
2:30	600#	1250#	
2:35	300#	1250#	
2:50	19" Vacuum	1250#	
3:15		1250#	Completed pumping 50 barrels of oil into tubing to flush acid out of tubing and into formation.

THE CALIFORNIA COMPANY, N.M. STATE WELL 1 1/2

Stood 183 hours for acid to react on formation.

On December 26, 1934, opened well but it did not flow. T.P. 100# to 0#; C.P. 1250#.

On December 27th "rocked" well in. Began flowing at 1:00 P.M. and produced 108 barrels fluid, cut 2% B3&W (cold test) and estimated 215 M.C.F. gas in 3 hours thru open 3" tubing; T.P. 20#, and 16 barrels fluid, cut 2% B3&W, and 89 M.C.F. gas in 14 hours thru 10/64" choke. T.P. 20# to 800#; C.P. 1250#. Recovered 34 barrels of oil in excess of the amount put into well for acid treatment.

During the 30 days from December 28, 1934, to January 26, 1935, the well flowed an average of 111 barrels of oil and 238 M.C.F. gas daily thru various sized chokes. Tubing pressure varied from 530# to 700# and casing pressure remained steady at 1250#. Average gas-oil ratio ~~6100~~ 2138 cu. ft. per barrel.

GEORGE L. KATGAMAN.

Midland, Texas  
February 11, 1935.