

NEW MEXICO OIL CONSERVATION COMMISSION

MISCELLANEOUS REPORTS ON WELLS

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

COMPANY Shell Oil Company Box 1957, Hobbs, New Mexico
(Address)

LEASE State A WELL NO. 2A UNIT A S 12 T -21-S R -35-E

DATE WORK PERFORMED 10-21 thru 11-11-56 POOL Tusont

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off
☐ Beginning Drilling Operations ☒ Remedial Work
☐ Plugging ☐ Other

Detailed account of work done, nature and quantity of materials used and results obtained.
Set cement retainer (Baker Model #) @ 3792' on Welox line. Mixed 400 gallons Cement (44 sz. cement). Squeezed all but one barrel below retainer. Reversed out approximately 1 barrel Cement. After WOC 48 hours perforated 5 1/2" casing w/24 holes 3785' - 3789' using Welox "4-way" squeeze, loaded every other plane. Broke down perforations w/oil 3800 psi & established injection rate of 4 b/m @ 2800 psi. Set cement retainer (Baker Model #) @ 3760'. Injected 2 BW followed by 900 gallons Cement (contains 99 sz. cement) & cleared tubing. After WOC 48 hours drilled cement retainer @ 3760'. Did not encounter "Cement" until 3790'. Drilled Cement to 3853'. Perforated 5 1/2" casing 3804' - 3812', 3816' - 3819', 3824' - 3828' & 3833' - 3839' w/4 jet shots per foot. Pressured casing to 500 psi. Pumped 500 gallons 15% acid into tubing followed w/lease oil. With 6 bbls. acid into formation casing pressure increased to 1000 psi. Pulled tubing & Sweet packer. Ran 2 1/2" tubing w/Baker FRAC packer. Hydrotested tubing to 5000 psi. Set packer @ 3799'. Pressured up casing to 1000 psi. Bled to 0 psi in 1 minute. Reset packer @ 3791' & pressured annulus to 1000 psi. Bled to 0 psi in 1 minute. Reset packer above all perforations & pressured annulus to 1000 psi. Held OK. Loaded tubing & injected 25 BW @ 4000 psi @ 12 b/m. Treated
(Continued on back of page)

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. 3588' TD 3861' PBD 3850' Prod. Int. 295 B/T Compl Date 5-21-55

Tbng. Dia 2" Tbng Depth 3828' Oil String Dia 5 1/2" Oil String Depth 3860'

Perf Interval (S) 3798' - 3842'

Open Hole Interval _____ Producing Formation (S) Seven Rivers

RESULTS OF WORKOVER:

	BEFORE	AFTER
Date of Test	<u>10-15-56</u>	<u>11-11-56</u>
Oil Production, bbls. per day	<u>13</u>	<u>30.38</u>
Gas Production, Mcf per day	<u>396.682</u>	<u>322.776</u>
Water Production, bbls. per day	<u>0.4</u>	<u>3.37</u>
Gas-Oil Ratio, cu. ft. per bbl.	<u>30,514</u>	<u>10,625</u>
Gas Well Potential, Mcf per day		

Witnessed by W. E. Collins, Production Foreman Shell Oil Company
(Company)

OIL CONSERVATION COMMISSION

Name E. J. Fischer
Title Engineer
Date NOV 21 1956

I hereby certify that the information given above is true and complete to the best of my knowledge. E. D. Manly
Name R. Revill
Position Division Exploitation Engineer
Company Shell Oil Company

IN 24 HOURS FLOWED 30.38 NO + 3.37 IN 22/64" choke. FOR 10.625.
20 MINUTE SHUT 300 PSI. AVERAGE INJECTION RATE 12.5 b/m. RUN TUBING & PUMP. TUBING
4100 PSI. FINAL PRESSURE 3800 PSI. SHUT DOWN PRESSURE 1100 PSI. 5 MINUTE SHUT 900 PSI.
PUMP @ 3843'. PUMP SET @ 3741'.