Form 9-331a
(March 1942)

Approval expires [illegible]

Land Office Las Cruces

Lease No. 028784-93 (b) Tr. A

Unit Keely "B"

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

James A. Knauf

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Loco Hills, New Mexico, February 22, 1951

Well No. 18-B is located 25 ft. from {N/S} line and 25 ft. from {E/W} line of sec. 25

NW, Sec. 25 (¼ Sec. and Sec. No.) 17-S (Twp.) 29-E (Range) NMPM (Meridian)

Grayburg-Jackson (Field) Eddy (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3580' ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

TOTAL DEPTH: 3027'.

PAY ZONES: 2785'-2811' broken (= estimated 9' of net effective pay).
2830'-2862' broken (= estimated 9' of net effective pay).
2894'-2949' broken (= estimated 7' of net effective pay).

THIS WELL WAS ACIDIZED AS FOLLOWS:
At Total Depth 2865':
Natural bailed 12 BOPH (= rate of 6.86 BOPD).
Washed with 250 gallons of 20% HCl (in two applications).

(Continued on Sheet -2-)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

RECEIVED
FEB 26 1951
ARTESIA, NEW MEXICO

Company GENERAL AMERICAN OIL COMPANY OF TEXAS

Address Box 416, Loco Hills, New Mexico

By W. A. Krouskop
W. A. Krouskop,
Title Asst. Field Supt.

At Total Depth 2865' (Continued):

On 1-26-51 treated with 1250 gallons of 20% HCl from 2774'-2865' using Dowell Pilot Electrode to control acid. Followed oil/acid interface down with Dowell Survey Electrode which showed 100% of acid to have entered formation from 2851-52'. RESULTS OF THIS TREATMENT: Swabbed 2.00 BO in 5 hours (= rate of 9.60 BOPD) thru 2" tubing.

On 1-27-51 retreated with 3500 gallons of 20% HCl from 2770' (casing seat) - 2865' (conventionally below set Hookwall Packer). RESULTS OF THIS TREATMENT: No increase.

At Total Depth 3027':

Bailed 31 GOPH (= rate of 17.71 BOPD) from all zones.

Washed with 250 gallons of 20% HCl.

Isolated zone from 2868'-3027' with Formation Packer then swabbed 56 GO in 5 hours (= rate of 6.40 BOPD) natural thru 3" tubing from zone 2868'-3027' only.

On 2-5-51 treated with 1250 gallons of 20% HCl from 2868'-3027' (below Formation Packer). RESULTS OF THIS TREATMENT: No increase. Swabbed and bailed 213.60 GO in 18:30 (= rate of 6.60 BOPD) thru 3" tubing from zone 2868'-3027' only.

On 2-7-51 ran Dowell Permeability Survey from 2876'-3027' using 1000 gallons of 20% HCl. RESULTS OF THIS SURVEY:

INTERVAL	GPM	PERCENT
Zones above 2876'	7.761	73.56
2957-77'	.309	2.93 (Questionable)
3025-27'	2.480	23.51
TOTAL	10.550	100.00

RESULTS OF THIS TREATMENT: No increase noted from this 1000 gallons of HCl.

On 2-9-51 spotted 52 gallons of Dowell filler (Jel-Seal, Jel-Flake, Pecan Shells) from Total Depth 3027' back to 2997' then treated with 2500 gallons of 20% HCl from 2911-97'. RESULTS OF THIS TREATMENT: Swabbed 55.81 BO (load oil in part) in 24:45 (made 16.56 BO last 9-3/4 hours of this test of which estimated 40% was load oil = rate of 24.45 barrels of net oil per day) thru 2" tubing from all zones. Slight increase in gas noted. After unseating Hookwall Packer and dumping 96.08 barrels of load oil well swabbed 103.65 BO in 38 hours (made 7.59 BO last 8 hours of this test = rate of 22.77 BOPD) thru 7" casing from all zones.

INITIAL PRODUCTION: Swabbed at rate of 22.77 BOPD thru 7" casing (based on last 8 hours of a 38 hour test).

COMPLETION DATE: 2-9-51 (Date of last acid treatment).

(Continued on Sheet -3-)

FINAL TUBING INSTALLATION: On 2-12-51 installed Merla closed gas lift system with 2" EUE conductor string, 2-1/2" EUE volume chamber and 1" macaroni string. Standing valve at 2920'.

SUBSEQUENT FLOW TESTS AND BOTTOM HOLE PRESSURE BUILD-UP TESTS:

12-14-51: After shut in 48 hours BHP @ 4800' datum = 457#. Tubing Pressure = 13#. Depth to Top of Fluid = 1484'.

2-19-51: Well shut in 6 days then swabbed 19.32 BO in 1:30 thru 2" tubing after which flowed 25.53 BO in next 16 hours on gas lift. Total production = 44.85 BO.

2-20-51: Flowed 30.90 BO in 25-1/2 hours on gas lift.

2-21-51: Flowed 20.54 BO in 24 hours on gas lift with a formation GOR of 584/1.