

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Las Cruces

Lease No. 029509-B

Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
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.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO ABANDON WELL.....		

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

Artesia, New Mexico, Feb. 6, 1952

Palish
Well No. B-12 is located 1980 ft. from SW line and 860 ft. from W line of sec. 22
NW/4 SW/4 Sec. 22 17S 32E 103W
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Lea New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4022 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)

On Jan. 21, 1952, 5 1/2" casing was run and cemented as follows:
(See attached sheets)

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

Company BUFFALO OIL COMPANY
Address 203 CARMEN BUILDING
ARTESIA, NEW MEXICO
By A. J. Lewis
Title Vice President

CASING STRING

0-2811' - 69 pcs. 5 $\frac{1}{2}$ " OD 20# Extreme Line; 2811-12,535' - 277 pcs. 5 $\frac{1}{2}$ " OD 20# N-80, LT&C; 12,535-13,554' - 32 pcs. 5 $\frac{1}{2}$ " OD 23# N-80, LT&C. A Turbo-jet float shoe was used on bottom, a float collar was used one joint above shoe, and a second float collar was placed 4 joints above shoe. A Halliburton 2-stage cementing collar, was placed at 12,538'. Casing centralizers were placed around casing at 3975, 4010, 4045, 4080, 4115, 4150, 4185, 4220, 10715, 10750, 10815, 10850, 12535, 12538, 13520 and 13551. Total depth ~~xxxx~~ was 13,555'. The first stage of cement consisted of 265 sacks, of 6% gel cement with flow seal added and plug was pumped down at 3:30 P.M. Jan. 21. The 2-stage collar was opened and hole was circulated 6 hours. Second stage of 1125 sacks of 6% gel cement was then displaced and plug went down at 11:45 P. M. Jan. 21. Maximum pressure was 3500 psi. and plugs were drilled out Jan. 25 and 26 and pipe was tested before and after drilling each plug. No leaks were found with pressure at 1550 psi. After drilling out bottom plug, we deepened from 13,555 to 13,563 with rock bit, using fresh water for circulating. 2-3/8" OD N-80 tubing was then run to 13,475' and well was swabbed. After approximately 7 hours some oil began to show and after swabbing 18 hours, well started flowing. At the end of a 24 hour flowing test, well was making 25 bbls. fluid per hour out 16% BS&W (Drilling fluid). Gas-oil ratio was 411. Well was then killed with fresh water and the Devonian was cored from 13,563 to 13,573', but only 1 $\frac{1}{2}$ ' of broken formation was recovered. Gamma Ray-Neutron survey showed top of Devonian at 13,548'.

Temperature survey made after cementing second stage showed top of cement behind 5 $\frac{1}{2}$ " casing at 4480'. In order to protect the Maljamar pay, a bridging plug was placed inside of 5 $\frac{1}{2}$ " casing at 10,318 and casing then perforated at 4300' with four 1/2" shots. A drillable cement retainer was run in on tubing and set at 4266'. Perforations were then squeezed with 400 sacks of 4% gel cement which should bring cement up to about 3000'. A caliper survey was available for making calculations. Pipe was cemented Feb. 3 at 6:00 P.M. After 48 hours plug and retainer were drilled out and pipe was tested with 1700# pressure, which held satisfactorily. The well was cleaned out to bottom and 2-3/8" OD N-80 and J-55 upset tubing was run to 13,518'. The well is now flowing on test.

[illegible]