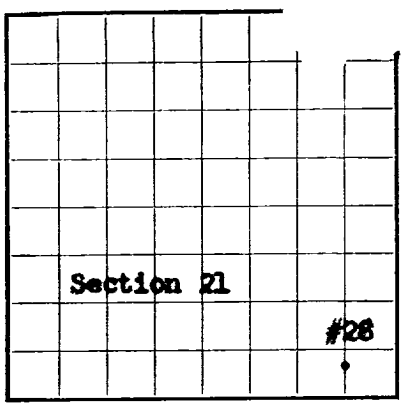
t Bureau No. 1. 1555.4.
roval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 029420 (b)
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Skelly Oil Company Address Box 38 - Hobbs, New Mexico

Lessor or Tract H.M. Dow "B" Field Grayburg-Jackson State New Mexico

Well No. 28 Sec. 21 T. 17S R. 31E Meridian NMPM County Eddy

Location 330 ft. {N./S.} of S Line and 660 ft. {E./W.} of E Line of Section 21 Elevation 3808' D.F.
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed [signature]

Date January 21, 1958 Title District Superintendant

The summary on this page is for the condition of the well at above date.

Commenced drilling December 8, 1957 Finished drilling January 11, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3400 to 3443 No. 4, from to

No. 2, from to No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to No. 3, from to

No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
8-5/8"	22.7#	-	Armco SJ	720'	Float				
7"	20#	8R	N-40A-55	3413'	Float				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	725'	150	Halliburton		
5-1/2"	3388'	325	Halliburton		

FOLD MARK

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet

Cable tools were used from 0 feet to 3446 feet, and from feet to feet

DATES

, 19 Put to producing January 17, 1958

The production for the first 24 hours was 1108 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. Gravity, °Bé. 37.1°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

Mr. J.C. Alexander, Driller Mr. Cope, Driller

Mr. Rinehart, Driller Mr. J.C. Tripplehorn, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	407	407	Redbed
407	596	189	Anhydrite & Dolomite
596	1555	959	Salt & Anhydrite
1555	1715	160	Anhydrite & Dolomite
1715	2076	361	Sand, Anhydrite & Dolomite
2076	2693	617	Dolomite, Sand & Anhydrite
2693	2870	177	Sand, Dolomite & Anhydrite
2870	3109	239	Sand, Dolomite & Anhydrite
3109	3400	291	Dolomite & Sand
3400	3446	46	Sand & Dolomite

GEOLOGICAL TOPS BY FRONTIER'S GAMMA-RAY NEUTRON LOG:
Top Anhydrite at 407'
Top Salt at 596'
Base Salt at 1555'
Top Yates at 1715'
Top 7-Rivers at 2076'
Top Queen at 2693'
Top Penrose at 2870'
Top Grayburg at 3109'
Top Premier at 3400'

16—43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

FRACTURE TREATMENT NO. 1 - 3388-3446':
Fractured open-hole section 3388-3446' with 27,000 gallons lease oil mixed with 55,000# sand. Maximum pressure 2400#, broke to 2000#. Maximum injection rate 45.9 barrels per minute, time of treatment 26 minutes. Shut-down pressure 1600#. Left shut-in 12½ hours and pressure dropped to 250#.