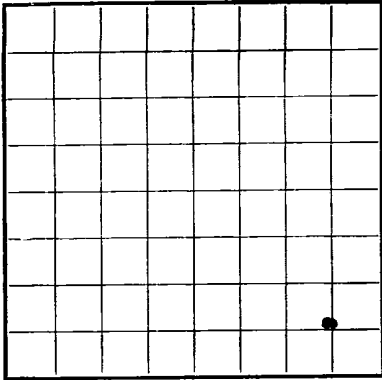


U. S. LAND OFFICE **New Mexico**  
SERIAL NUMBER **LC-068288-B**  
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

MAY 23 1955

LOG OF OIL OR GAS WELL

Company **Lion Oil Company** Address **Box 492, Snyder, Texas**  
Lessor or Tract **Ethel** Field **Undesignated** State **New Mexico**  
Well No. **4** Sec. **25** T. **13S** R. **31E** Meridian **NMPM** County **Chaves**  
Location **660** ft. <sup>N</sup> of **S** Line and **660** ft. <sup>E</sup> of **E** Line of **Sec. 25** Elevation **4386**  
(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 *A. H. Harvey*

Date **5 - 19 - 55** Title **Dist. Supt.**

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

Commenced drilling **4 - 19**, 19 **55** Finished drilling **5 - 1**, 19 **55**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3060** to **3069** 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 **None** 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		Purpose
							From--	To--	
10-3/4	41#	8V		319.68	Float				Surface
5-1/2	19.5#	8R		3069.11	Float shoe				Oil string
					Steel collar	3060	3069		Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	332.18'	250	Displaced & Plug		
5-1/2	3099.63'	150	"	"	

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 **0** feet to **3100** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

Put to producing **5 - 1**, 19 **55**

The production for the first 24 hours was **192** \* barrels of fluid of which **98.2** % was oil; \_\_\_\_\_ % emulsion; \_\_\_\_\_ % water; and **.2** % sediment. Gravity, <sup>64</sup> **xxx** API **38**<sup>0</sup>

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

Rock pressure, lbs. per sq. in. **Unknown** \* Based on **88** BO/11 hrs.

EMPLOYEES

**Darrel W. Smith**, Driller  
**D. D. Hedgeworth**, Driller  
**Truman Broughton**, Driller  
**J. A. Reeves**, Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	20	20	Caliche
20	300	280	Sand w/shale
300	1472	1172	Red sd. & red sh. w/limestone
1472	1580	108	Anhy., Shale & Sand
1580	2170	590	Anhy. and salt
2170	2450	280	Anhy., red sh., sd. & salt
2450	3059	609	Anhy., red sand & sh.
3059	3075	16	Fine gry. sd & red sand
3075	3078	3	Gray Anhy.
3078	3100	22	Anhy., sd. & sh.
	3100		T.D.
	3077		PBTD

Attach.: One copy of Inclination Survey and One copy of Sample Description.

FOLD MARK



Ethel # 4  
Inclination Survey

<u>Degree</u>	<u>Deviation</u>	<u>Depth</u>
	1/2	300
2	1/4	610
1	1/4	1135
	3/4	1290
IX	1 3/4	1855
	3/4	2275
	1/4	2580
	1/4	2787