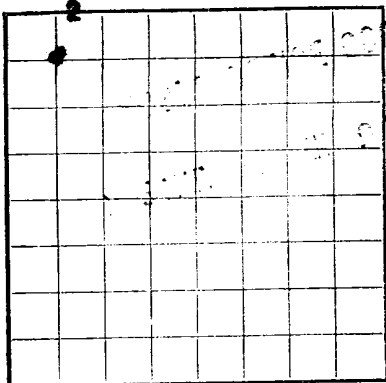


U. S. LAND OFFICE New Mexico
SERIAL NUMBER LC-069832-C
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Lion Oil Company Address P. O. Box 492, Snyder, Texas
Lessor or Tract Erwin Field S. Dickey Queen State New Mexico
Well No. 2 Sec. 4 T. 15 S. R. 31 E Meridian NMPM County Chaves
Location 672.37 ft. S. of N. Line and 660 ft. E. of N. Line of Sec. 4 Elevation 4442
(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

Date 3-4-55

Title Dist. Supt.

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

Commenced drilling 2 - 10 -, 1955 Finished drilling 2 - 17 -, 1955

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3119' to 3131' 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 ENCOUNTERED 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—	
<u>10-3/4"</u>	<u>41#</u>	<u>8V</u>		<u>310.12'</u>	<u>Float</u>				<u>Surface</u>
<u>5-1/2"</u>	<u>15.5#</u>	<u>8rd</u>		<u>3174.09'</u>	<u>Float Shoe</u>		<u>3119</u>	<u>3131</u>	<u>Oil String</u>
					<u>Float Collar</u>				
					<u>Stage Collar @ 2867.35'</u>				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10-3/4"</u>	<u>322.51'</u>	<u>225</u>	<u>Displaced and Plug</u>		
<u>5-1/2"</u>	<u>3185.09'</u>	<u>625</u>	<u>"</u>	<u>"</u>	

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 3187 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

3 - 4 -, 1955 Put to producing 2 - 26 -, 1955

The production for the first 24 hours was 420 barrels of fluid of which 99.8% was oil; _____% emulsion; _____% water; and 2% sediment. Gravity, XXX 38° API

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 6 hr. test of 105 bbls.)

Cactus Drilling Company

EMPLOYEES

E. L. Hill, Driller K. L. Hedrick, Driller
R. J. Richardson, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>25</u>	<u>25</u>	<u>Caliche</u>
<u>25</u>	<u>280</u>	<u>255</u>	<u>Sand, fine to med. with shale</u>
<u>280</u>	<u>1355</u>	<u>1075</u>	<u>Red Shale with sand</u>
<u>1355</u>	<u>1380</u>	<u>25</u>	<u>Anhydrite</u>
<u>1380</u>	<u>1472</u>	<u>92</u>	<u>Red Shale and sand</u>
<u>1472</u>	<u>2170</u>	<u>698</u>	<u>Salt with anhydrite</u>
<u>2170</u>	<u>2320</u>	<u>150</u>	<u>Anhy. with red shale & salt</u>
<u>2320</u>	<u>2470</u>	<u>150</u>	<u>Sand and shale with anhydrite</u>
<u>2470</u>	<u>3114</u>	<u>644</u>	<u>Anhydrite with del. sand & red shale</u>
<u>3114</u>	<u>3135</u>	<u>21</u>	<u>Grey and red sand with anhydrite</u>
<u>3135</u>	<u>3187</u>	<u>52</u>	<u>Anhydrite with red shale and sand</u>
			<u>Total Depth - Plug Back Total Depth 3152'.</u>

Attached: Copy of Inclination Survey and copy of Sample Description

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.

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

FORMATION RECORD-Continued

ERWIN NO. 2

INCLINATION SURVEY

<u>DEGREE DEVIATION</u>	<u>DEPTH</u>
3/4	325'
3/4	1420'
3/4	1620'
1-1/4	1900'
1-1/4	2400'
1-1/2	2575' Maximum
1-1/4	2700'
1-1/4	2925'

