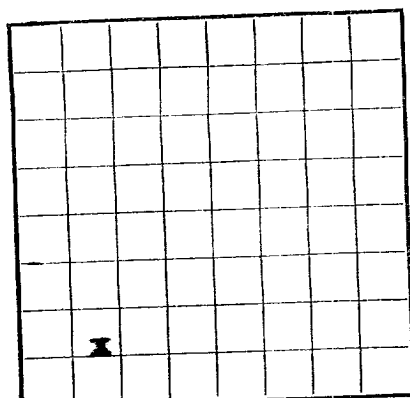


Santa Fe, N. M.
U. S. LAND OFFICE
SERIAL NUMBER **LC-063645**
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

Company F. J. Livley Address Box 1208, Artesia, N.M.
Lessor or Tract F. J. Livley Field El Aren State New Mexico
Well No. 4 Sec. 19 T. 18 R. 34 Meridian N.M. County Lee
Location 350 ft. N. of 8 Line and 782 ft. E. of W. Line of Section 19 Elevation 3961 OF
(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] Title Owner-operator
Date 11/11/57

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

Commenced drilling 10/19, 1957 Finished drilling 11/4, 1957OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 4698 to 4710 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		Purpose
							From—	To—	
<u>8-5/8</u>	<u>24</u>	<u>8</u>	<u>320'</u>	<u>Log.</u>			<u>4698</u>	<u>4710</u>	<u>Pay Zone</u>
<u>5-1/2</u>	<u>14</u>	<u>8</u>	<u>4710'</u>	<u>Float</u>					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>320'</u>	<u>175 Sacks</u>	<u>Halliburton</u>		
<u>5-1/2"</u>	<u>4710'</u>	<u>225 Sacks</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 (1) 0 feet to 4718 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing 12/10, 1957The production for the first 24 hours was 47 barrels of fluid of which 100% was oil; _____%
emulsion; _____% water; and _____% sediment. Gravity, °Bé. 36If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

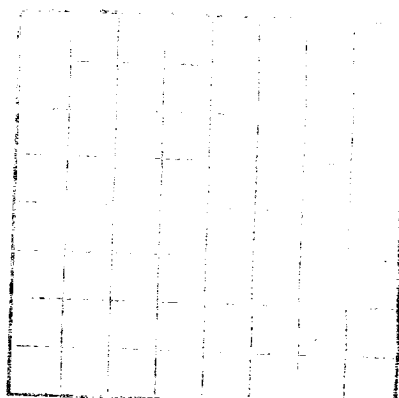
Frank Ryland, Driller [Signature], Driller
Ray [Signature], Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>324</u>	<u>324</u>	<u>Sand, caliche & red rock</u>
<u>324</u>	<u>1725</u>	<u>1401</u>	<u>Red beds & red rock</u>
<u>1401</u>	<u>1876</u>	<u>151</u>	<u>Red rock & anyh.</u>
<u>1876</u>	<u>3146</u>	<u>1270</u>	<u>Salt & anyh.</u>
<u>3146</u>	<u>4594</u>	<u>1572</u>	<u>anyh.</u>
<u>4594</u>	<u>4630</u>	<u>216</u>	<u>lime</u>
<u>4630</u>	<u>4680</u>	<u>50</u>	<u>hard</u>
<u>4680</u>	<u>4695</u>	<u>15</u>	<u>lime</u>
<u>4695</u>	<u>4710</u>	<u>15</u>	<u>lime</u>
			<u>Top of main zone</u>
			<u>Top of Penrose 4697'</u>
			<u>2 Sample analysis by E. J. Minney - Enclosed</u>
			<u>2 Lane-Wells Electric Logs - Enclosed</u>

(OVER)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF GEOLOGICAL SURVEY



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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 balling, or bailing.

HISTORY OF OIL OR GAS WELL

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