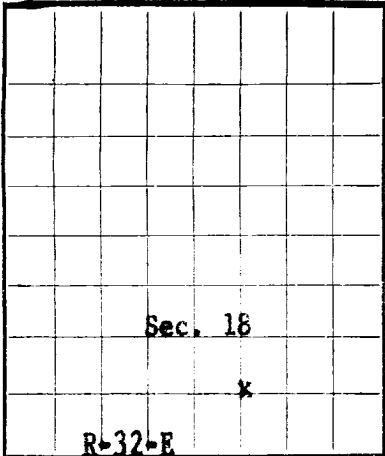




U. S. LAND OFFICE **New Mexico**
SERIAL NUMBER **LC 064198 A**
LEASE OR PERMIT TO PROSPECT
Lusk Deep Unit

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **El Paso Natural Gas Company** Address **2005 Wilco Building, Midland, Texas**
Lessor or Tract **Lusk Deep Unit** Field **Lusk - Strawn** State **New Mexico**
Well No. **2** Sec. **18** T-**19-S** R-**32-E** Meridian **MPM** County **Lea**
Location **660'** ft. **N.** of **S.** Line and **1980'** ft. **E.** of **W.** Line of **Sec. 18** Elevation **3585** **GL**
(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 **J. E. Jochett**

Date **April 14, 1961** Title

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

Commenced drilling **October 16**, 19 **60** Finished drilling **March 13**, 19 **61**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **11,220** to **11,250'** No. 4, from to
No. 2, from **12,380** to **12,398'** 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	
13 3/8	72#	8 round	new	4462'	Halliburton				Surface
9 5/8	53.5#	Buttress	"	11400'	"				Intermediate
	47#	43.5#					11,220	11,250	
5"	18#	8 round	"	13551' (bottom)			12380	12,398	Production
liner				11299' (top)					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	4462'	3400	pump & plug		
9 5/8	11400'	525			
5"	13551' (bottom)	717 cubic ft.			
	11299' (top)				

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 **13,774** feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

Daily Completed **3/31**, 19 **61** Put to producing **(Strawn)** **4/1**, 19 **61**
The production for the first 24 hours was **640.8** barrels of fluid of which **100**% was oil; **0**% emulsion; % water; and % sediment. Gravity, °Bé.

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

Rock pressure, lbs. per sq. in. **5799 (BHP - Strawn - datum point -7585)**

EMPLOYEES

, Driller **(Morrow zone shut-in awaiting gas line)** Driller
, Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	733	733	redbed
733	1044	311	anhydrite, dolo
1044	2290	1246	salt
2290	2563	273	dolo, anhydrite
2563	2945	382	anhydrite, sand
2945	4515	1570	anhydrite, dolo
4515	6985	2470	dolo, sand, anhydrite
6985	10280	3295	lime, sand
10280	11070	790	lime, sand
11070	11505	435	lime
11505	12510	1005	shale, sand, lime
12510	12605	95	lime
12605	12755	150	shale
12755	13300	545	lime
13300	13414	114	shale
13414	13974	560	lime, dolo, chert

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.

This well is a dual completion, but at the present time only the upper zone (Strawn) is being produced. The lower zone (Morrow) will be shut-in until a gas pipeline is available to this area. There are two strings of tubing in this well. The No. 1 string of 2 3/8" EUE is landed @ 12,416' with a packer set @ 12,280'. The No. 2 string of 2 3/8" EUE is landed @ 11,164' with a packer set @ 11,065'.

HISTORY OF OIL OR GAS WELL

10-43094-2 U. S. GOVERNMENT PRINTING OFFICE

FROM-	TO-	TOTAL FEET	FORMATION
			TOPS
			Anywhere
			Salt
			Tarball
			Texas
			Seven Rivers
			Delaware Mountain
			Bone Springs
			Wolfcamp
			Strawn
			Atoka
			Barnett
			Mississippi
			Woodford
			Devonian
			13414
			13300
			12755
			12605
			11505
			11070
			10280
			6985
			4515
			2945
			2563
			2290
			1044
			733