

U. S. LAND OFFICE **Santa Fe**SERIAL NUMBER **07637-A**

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECORDED
SEP 7 1961
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **El Paso Natural Gas Company** Address **Box 990, Farmington, New Mexico**
Lessor or Tract **Kernaghan** Field **Blanco** State **New Mexico**
Well No. **2** Sec. **28** T. **31N** R. **8W** Meridian **N.M.P.M.** County **San Juan**
Location **1510** ft. **N** of **N** Line and **1190** ft. **W** of **E** Line of **Section 28** Elevation **6334**
(Derive Elev. 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 **ORIGINAL SIGNED A.M. SMITH**

Date **September 6, 1961**Title **Petroleum Engineer**

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

Commenced drilling **8-9**, 19 **53** Finished drilling **9-16**, 19 **53**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3196** to **3300 (G)** No. 4, from **5457** to **5605 (G)**
No. 2, from **5024** to **5136 (G)** No. 5, from _____ to _____
No. 3, from **5136** to **5457 (G)** No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____
No. 2, from _____ to _____ No. 4, from _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
9 5/8"	47.3	8 rd	J-55	5578	OK	CV2 MEET			Surface
7"	49.73	8 rd	J-55	5578	OK	CV2 MEET			Intermediate
4 1/2"	56.03	8 rd	J-55	5578	OK	CV2 MEET			Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	172	125	Circulated		
7"	4973	500	single stage		
4 1/2"	5603	282	2 stage		

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
5469-61; 5474-82; 5500-08;	5500-08;	Frax M.V. w/	55,000 gal water,	60,000# sd.	Max pr 4000# tr pr	
5514-22; 5528-36;	5528-36;	1000# I.R. 35 RPM				
5104-16; 5124-36; 5310-22;	5310-22;	Spotted 500 gal MMA on parts.				

TOOLS USED

Rotary tools were used from **0** feet to **4973** feet, and from **4973** feet to **5605** feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing _____, 19____
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours **2,760,000** Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. **632(tubing)** **A.O.F. 4306 MCF/D**

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2182	2182	Tan to gry cr-grn ss interbedded w/gry sh.
2182	2317	135	Ojo Alamo ss. White cr-grn s.
2317	2928	611	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2928	3196	268	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3196	3300	104	Pictured Cliffs forms Gry, fine-grn tight, varicolored soft ss.
3300	5024	1724	Lewis form. Gry, fine-grn, dense sil ss.
5024	5136	112	Cliff House ss. Gry, fine-grn, dense sil ss.
5136	5457	321	Manefee form. Gry, fine-grn s, carb sh & coal.
5457	5605	148	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD—Continued

2025-07-14

U.S. Land Office

SERIAL NUMBER

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GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

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Drilled

Location 1510 ft. [2] of [1] Line and 1100 ft. [EX] of [2] Line of Section 28 Elevation 6334

Well No. 2 Sec. 28 T. 34 N. R. 34 E. Meridian 14th M.M. County San Juan

Lessor or Tract Kernaghan

Company El Paso Natural Gas Company

Address Box 990, Farmington, New Mexico

Field Blaine State New Mexico

Commenced drilling 8-2-1953 Finished drilling 2-6-1953
The summary on this page is for the condition of the well at above date.
Date September 6, 1953
Title Petroleum Engineer

OIL OR GAS SANDS OR ZONES

(Denote das by G)

No. 1, from	3106	to	3300 (G)	No. 4, from	3401	to	5002 (G)
No. 2, from	3084	to	3138 (G)	No. 5, from		to	
No. 3, from	3138	to	3451 (G)	No. 6, from		to	

IMPORTANT WATER SANDS

No. 3 from _____ to _____
No. 4 from _____ to _____

CASING RECORD

Case No.	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
5478	11.1	9.50	7-22	2220					
It is of the greatest importance to have a complete history of each well. Please state in detail the dates of redrilling, casing, and the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was extracted, state in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If either bridges were put in, or for what reason, state in the well, give its size and location. of the casing, position, and results of pumping, and number of shots.									
HISTORY OF OIL OR GAS WELL U. S. GOVERNMENT PRINTING OFFICE: 1916									

MILBING AND CEMENTING RECORD

Size casting	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
2 1/8"	100	100	100		
1 1/2"	100	100	100		
1 1/4"	100	100	100		
1 1/8"	100	100	100		
1 1/16"	100	100	100		
1 1/32"	100	100	100		
1 1/64"	100	100	100		
1 1/128"	100	100	100		
1 1/256"	100	100	100		
1 1/512"	100	100	100		
1 1/1024"	100	100	100		
1 1/2048"	100	100	100		
1 1/4096"	100	100	100		
1 1/8192"	100	100	100		
1 1/16384"	100	100	100		
1 1/32768"	100	100	100		
1 1/65536"	100	100	100		
1 1/131072"	100	100	100		
1 1/262144"	100	100	100		
1 1/524288"	100	100	100		
1 1/1048576"	100	100	100		
1 1/2097152"	100	100	100		
1 1/4194304"	100	100	100		
1 1/8388608"	100	100	100		
1 1/16777216"	100	100	100		
1 1/33554432"	100	100	100		
1 1/67108864"	100	100	100		
1 1/134217728"	100	100	100		
1 1/268435456"	100	100	100		
1 1/536870912"	100	100	100		
1 1/1073741824"	100	100	100		
1 1/2147483648"	100	100	100		
1 1/4294967296"	100	100	100		
1 1/8589934592"	100	100	100		
1 1/17179869184"	100	100	100		
1 1/34359738368"	100	100	100		
1 1/68719476736"	100	100	100		
1 1/137438953472"	100	100	100		
1 1/274877906944"	100	100	100		
1 1/549755813888"	100	100	100		
1 1/1099511627776"	100	100	100		
1 1/2199023255552"	100	100	100		
1 1/4398046511104"	100	100	100		
1 1/8796093022208"	100	100	100		
1 1/17592186044416"	100	100	100		
1 1/35184372088832"	100	100	100		
1 1/70368744177664"	100	100	100		
1 1/140737488355328"	100	100	100		
1 1/281474976710656"	100	100	100		
1 1/562949953421312"	100	100	100		
1 1/1125899906842624"	100	100	100		
1 1/2251799813685248"	100	100	100		
1 1/4503599627370496"	100	100	100		
1 1/9007199254740992"	100	100	100		
1 1/18014398509481984"	100	100	100		
1 1/36028797018963968"	100	100	100		
1 1/72057594037927936"	100	100	100		
1 1/144115188075855872"	100	100	100		
1 1/288230376151711744"	100	100	100		
1 1/576460752303423488"	100	100	100		
1 1/1152921504606846976"	100	100	100		
1 1/2305843009213693952"	100	100	100		
1 1/4611686018427387904"	100	100	100		

PLUGS AND ADAPTERS

Material	Size	Length	Depth set
PLUGS AND ADAPTERS			

SHOOTING RECORD

[illegible]

TOOLS USED

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

DATE

Put to producing	19
Barrels of fluid of which	% was oil; %
Gravity, °Be.	
Gallons gasoline per 1,000 cu. ft. of gas	
4.000. 4300 MTD	

EMPLOYEES

Driller		
Driller		

INFORMATION RECORD

FORMATION	TOTAL FEET	TO—	FROM—
Thin to gray or gray as interbedded w/gray sh.	2165	2165	0
Gray sh. White or gray s.	137	2302	2165
Bedded form. Gray sh interbedded w/light gray	611	2913	2302
fine-grn ss.			
Bedded form. Gray carb sh, scattered coals.	268	3181	2913
coals and gray, tight, fine-grn ss.			
Bedded Clinton form. Gray, fine-grn tight,	105	3286	3181
verticalized soft ss.			
Lewis form. Gray, fine-grn, dense all ss.	1784	5070	3286
Clinton House ss. Gray, fine-grn, dense all ss.	112	5182	5070
Menifee form. Gray, fine-grn s, carb sh & coal.	351	5533	5182
Point Lookout form. Gray, very fine all ss	148	5681	5533

FORMATION RECORD-Continued