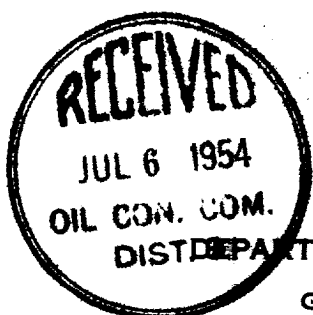


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078336-B**
LEASE OR PERMIT TO PROSPECT

RECEIVED
APR 14 1954
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract Barrett Field Blanco State New Mexico
Well No. 4 Sec 20 T 31N R 9W Meridian NMPM County San Juan
Location 1190 ft. xxx of N Line and 1190 ft. xxx of E Line of Section 20 Elevation 6286'
(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]
Date April 13, 1954 Title Petroleum Engineer

The summary on this page is for the condition of the well at above date.
Commenced drilling January 12, 1954 Finished drilling March 1, 1954

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 3137 to 3216 (G) No. 4, from 5362 to 5484 (G)
No. 2, from 4945 to 5025 (G) No. 5, from _____ to _____
No. 3, from 5025 to 5362 (G) 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—	
9 5/8	25.4	S.W.	Armco	161	Armco				Surface
7"	21	8	Armco	161	Armco				Surface
7"	21	8	Armco	161	Armco				Surface
2"	4.7	8	Natl.	5485					Prod. Tbg.

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"	4854	500	Single 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
			See History			

TOOLS USED

Rotary tools were used from 0 feet to 4854 feet, and from 4854 feet to 5514 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 3, 1954 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 3,131,000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 1080

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1118	1118	Tan cr-grn ss w/thin sh breaks.
1118	1680	562	Variegated sh w/thin ss breaks.
1680	2259	579	Tan to gry cr-grn ss interbedded w/gry sh.
2259	2330	71	Ojo Alamo ss. Sh cr-grn s. Top Ojo Alamo 2259.
2330	2763	433	Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss. Top Kirtland 2330.
2763	3137	374	Fruitland formation. Gry carb sh, scattered coals and gry, tight, fine-grn ss. Top Fruitland 2763.
3137	3216	79	Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss. Top Pictured Cliffs 3137.
3216	4945	1729	Lewis formation. Gry to wh dense sh w/silty to shaly ss breaks. Top Lewis 3216.
4945	5025	80	Cliff House ss. Gry, fine-grn, dense sil ss. Top Cliff House 4945.
5025	5362	337	Menefee formation. Gry, fine-grn s, carb sh and coal. Top Menefee 5025.
5362	5484	122	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks. Top Point Lookout 5362.
5484	5514	30	Mancos formation. Gry carb sh.

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SERIAL NUMBER
U.S. LAND OFFICE



UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

APR 14 1954
U. S. GEOLOGICAL SURVEY
WASHINGTON, D. C.

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Location of _____ of _____ Line and _____ ft. ¹¹ ₁₁ _____ Line of _____
Well No. _____ Section _____ T. _____ R. _____ Meridian _____
County _____ State _____
Lessor or Trust _____
Company _____
Address _____

The information given herewith is a complete and correct record of the well and all work done thereon
as far as can be determined from all available records.

W. H. [Signature]

SECRETARY OF DEFENSE OFFICE OF THE SECRETARY OF DEFENSE

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

Commenced drilling _____
Finished drilling _____ 19____

OIL OR GAS SANDS OR ZONES

Set Baker Model "K" Retainer at 5372. Treated 5372-5514, plus 10,000 gallons #2 diesel oil and formation, interval treated 5372 - 5514, plus 10,000 gallons #2 diesel oil and 9600 # sand. Breakdown pressure 1600#. Maximum pressure 1700#. Injection rate 5.5 bbls. per min. Flushed with 60 bbls. oil. Gage before treatment 1030 MCF. Gage 6 days after treatment 2530 MCF.

March 1, 1954

Injection rate 6.0 bbls per min. Fluene with 12 bbls. oil. Natural gas 88 MCF. No. 4 from Page 14 hours after treatment 900 MCF.

February 26, 1954	From —	To —
5046, with 10,000 callons of diesel oil and 10,000# sand broken down pressure 1700.	From —	To —
5046, with 10,000 callons of diesel oil and 10,000# sand broken down pressure 1700.	From —	To —

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redilling, 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.

HISTORY OF OIL OR GAS WELL

16-45094-2 U. S. GOVERNMENT PRINTING OFFICE

MUDGING AND CEMENTING RECORD					
Date	Where set	Number sacks of cement	Mud lost used	Mud gravity	Amount of mud used

PLUGS AND ADAPTERS

PLUGS AND ADAPTERS

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

[illegible]

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	INITIALS
10/1/78	...	...	...	...	...
10/2/78	...	...	...	...	...
10/3/78	...	...	...	...	...
10/4/78	...	...	...	...	...
10/5/78	...	...	...	...	...
10/6/78	...	...	...	...	...
10/7/78	...	...	...	...	...
10/8/78	...	...	...	...	...
10/9/78	...	...	...	...	...
10/10/78	...	...	...	...	...
10/11/78	...	...	...	...	...
10/12/78	...	...	...	...	...
10/13/78	...	...	...	...	...
10/14/78	...	...	...	...	...
10/15/78	...	...	...	...	...
10/16/78	...	...	...	...	...
10/17/78	...	...	...	...	...
10/18/78	...	...	...	...	...
10/19/78	...	...	...	...	...
10/20/78	...	...	...	...	...
10/21/78	...	...	...	...	...
10/22/78	...	...	...	...	...
10/23/78	...	...	...	...	...
10/24/78	...	...	...	...	...
10/25/78	...	...	...	...	...
10/26/78	...	...	...	...	...
10/27/78	...	...	...	...	...
10/28/78	...	...	...	...	...
10/29/78	...	...	...	...	...
10/30/78	...	...	...	...	...
10/31/78	...	...	...	...	...

[illegible]

The production for the first 24 hours was _____	_____	Put to producing _____, 19____
_____ barrels of fluid of which _____% was oil; _____%		

It gas well, out for 24 hours	Emulsion; and	Gravimetric
Gallons kerosene per 1,000 cu. ft. of gas	% sediment	

EMPLOYEES

EMPLOYEES		
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FORMATION RECORD

[illegible]