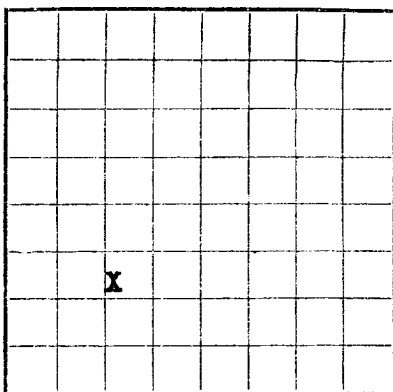


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078502
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997 Farmington, New Mexico
Lessor or Tract Vanderwart Field Blanco State New Mexico
Well No. 2-A Sec. 11 T. 29N R. 8W Meridian N. M. P. M. County San Juan
Location 1650 ft. [N.] of S. Line and 1650 ft. [E.] of W. Line of Section 11 Elevation 4320
(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 March 24, 1953Title Petroleum Engineer.

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

Commenced drilling January 3, 1953 Finished drilling February 6, 1953

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3036 to 3077 (G) No. 4, from 5238 to 5325 (G)
No. 2, from 4645 to 4813 (G) No. 5, from _____ to _____
No. 3, from 4813 to 5238 (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	8	S. W.	162'	BAKER				Surface
7	23	8	SPARK	4602'	BAKER				Prod. Tag.
2"	4.7	8	Youngat.	5371'					Prod. Tag.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8	173'	125	Circulated		
7"	4612'	300	Sing. 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
Quart	Regular	S.N.G.	1545	2-7-53	4675-5425	5425

TOOLS USED

Rotary tools were used from 0 feet to 4612' feet, and from 4612' feet to 5425 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing February 11, 1953

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 4,640,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1087

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	650	650	Tan cr-grn ss w/thin sh breaks.
650	1382	732	Variegated sh w/thin ss breaks.
1382	1962	580	Tan to gry cr-grn ss interbedded w/gry sh.
1962	2127	165	Ojo Alamo ss. Wh cr-grn s. Top Ojo Alamo 1962.
2127	2718	591	Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss. Top Kirtland 2127.
2718	3036	318	Fruitland formation. Gry carb sh, scattered coals and gry, tight, fine-grn ss. Top of Fruitland formation 2718.
3036	3077	41	Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss. Top Pictured Cliffs 3036.
3077	4645	1568	Lewis formation. Gry to wh dense sh w/silty to shaly ss breaks. Top Lewis 3077.
4645	4813	168	Cliff House ss. Gry, fine-grn, dense sil ss. Top of Cliff House 4645.
4813	5238	425	Menefee formation. Gry, fine-grn s, carb shales and coal. Top Menefee 4813.
5238	5325	87	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks. Top Point Lookout 5238.
5325	5425	100	Mancos formation. Gry carb sh. Top Mancos 5325.

(PLEASE NOTE) NO LOG ON UPPER SECTIONS. TOPS FROM SURFACE TO CLIFF HOUSE CALCULATED BY CORRELATION WITH THE VANDERWART #1-A.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

LOG OF OIL OF GAS WELL

LOCATE WEST COAST TFL

The information given hereafter is a complete and correct record of the well and all work done thereon
 so far as can be obtained from all available records.
 Signed _____
 Location _____
 Date _____
 Name of well _____
 Name of land and owner _____
 Name of person making record _____
 Title _____
 Address _____
 City _____
 State _____
 (Original to be retained in the office of the State Engineer)

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

OF OR FOR ANY OF THE

(1) $\mathcal{A}$ is a $\mathcal{C}^*$ -algebra

10	from 10.4 to 10.5	10	from 10.4 to 10.5
10	from 10.3 to 10.4	10	from 10.3 to 10.4
10	from 10.2 to 10.3	10	from 10.2 to 10.3

IMPORTANT WATER BANDS

4		mod 8.6Z			mod 8.6Z
5		mod 8.6Z			mod 8.6Z

CASTLE RECORD

DATE	AMOUNT	REMARKS
1900	1000	...
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2030	...	...
2031	...	...
2032	...	...
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2034	...	...
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2036	...	...
2037	...	...
2038	...	...
2039	...	...

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.

HISTORY OF OIL OR GAS WELL

16-43094-2

U. S. GOVERNMENT PRINTING OFFICE

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