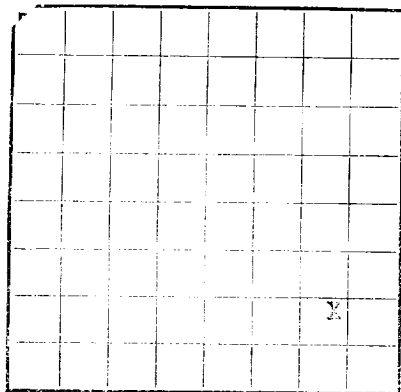


Form 9-330



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 Allison 4013 Field 113cat State New Mexico
Well No. 1 Sec. 10 T. 32N R. 7W Meridian 113cat County San Juan
Location 290 ft. N. of Line and 290 ft. E. of Line of Section 10 Elevation 6741'
(Elevation above 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. Schuler

Date October 25, 1954 Title Petroleum Engineer

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

Commenced drilling August 25, 1954 Finished drilling October 1, 1954

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2894 to 2902 (G) No. 4, from 3110 to 3143 (G)
No. 2, from 2990 to 2995 (G) No. 5, from to
No. 3, from 2915 to 3106 (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	
13 3/8	4.7	8 PD	J-55	162.3					Surface
2 7/8	3.12	8 PD	J-55	377.2	113cat				Discard
2 7/8	2.97	8 PD	J-55	1044.2	113cat				Prod. Log.
2 7/8	2.3	8 PD	W-30	2122.14					
2 7/8	2.3	8 PD	Foreign	4093.47					
2 7/8	2.3	8 PD	J-55	377.24					
2	4.7	8 PD	Yonkstown	115.54					Prod. Log.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	2	150	Circ. Cement		
2 7/8	377.2	300	Circ. Cement		
2	115.5	150			

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 Well History					

TOOLS USED

Gas Drilling

Rotary tools were used from 0 feet to 377.2 feet, and from 377.2 feet to 443 feet
Cable tools were used from 0 feet to 0 feet, and from 0 feet to 0 feet

DATES

Commenced drilling August 25, 1954 Put to producing October 1, 1954

The production for the first 24 hours was 0 barrels of fluid of which 0% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, °Bé.

If gas well, cu. ft. per 24 hours 4,315,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 2570

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	101	101	Variegated shale w/ss thin.
101	1031	1020	ss w/ thin sh thin.
1031	2030	1017	Thin to med ss interbedded w/shales & coal.
2030	2032	202	Thin, coarse-gr. sand. top 2030'.
2032	3220	200	Med. coarse-gr. sand. top 2032'.
3220	3450	230	Med. coarse-gr. sand. top 3220'.
3450	3525	75	Med. coarse-gr. sand. top 3450'.
3525	5004	2079	Med. coarse-gr. sand. top 3525'.
5004	5000	4	Med. coarse-gr. sand. top 5004'.
5000	5010	22	Med. coarse-gr. sand. top 5000'.
5010	6100	100	Med. coarse-gr. sand. top 5010'.
6100	7000	900	Med. coarse-gr. sand. top 6100'.
7000	8000	1000	Med. coarse-gr. sand. top 7000'.
8000	9000	1000	Med. coarse-gr. sand. top 8000'.
9000	10000	1000	Med. coarse-gr. sand. top 9000'.
10000	11000	1000	Med. coarse-gr. sand. top 10000'.
11000	12000	1000	Med. coarse-gr. sand. top 11000'.
12000	13000	1000	Med. coarse-gr. sand. top 12000'.
13000	14000	1000	Med. coarse-gr. sand. top 13000'.
14000	15000	1000	Med. coarse-gr. sand. top 14000'.
15000	16000	1000	Med. coarse-gr. sand. top 15000'.
16000	17000	1000	Med. coarse-gr. sand. top 16000'.
17000	18000	1000	Med. coarse-gr. sand. top 17000'.
18000	19000	1000	Med. coarse-gr. sand. top 18000'.
19000	20000	1000	Med. coarse-gr. sand. top 19000'.
20000	21000	1000	Med. coarse-gr. sand. top 20000'.
21000	22000	1000	Med. coarse-gr. sand. top 21000'.
22000	23000	1000	Med. coarse-gr. sand. top 22000'.
23000	24000	1000	Med. coarse-gr. sand. top 23000'.
24000	25000	1000	Med. coarse-gr. sand. top 24000'.
25000	26000	1000	Med. coarse-gr. sand. top 25000'.
26000	27000	1000	Med. coarse-gr. sand. top 26000'.
27000	28000	1000	Med. coarse-gr. sand. top 27000'.
28000	29000	1000	Med. coarse-gr. sand. top 28000'.
29000	30000	1000	Med. coarse-gr. sand. top 29000'.
30000	31000	1000	Med. coarse-gr. sand. top 30000'.
31000	32000	1000	Med. coarse-gr. sand. top 31000'.
32000	33000	1000	Med. coarse-gr. sand. top 32000'.
33000	34000	1000	Med. coarse-gr. sand. top 33000'.
34000	35000	1000	Med. coarse-gr. sand. top 34000'.
35000	36000	1000	Med. coarse-gr. sand. top 35000'.
36000	37000	1000	Med. coarse-gr. sand. top 36000'.
37000	38000	1000	Med. coarse-gr. sand. top 37000'.
38000	39000	1000	Med. coarse-gr. sand. top 38000'.
39000	40000	1000	Med. coarse-gr. sand. top 39000'.
40000	41000	1000	Med. coarse-gr. sand. top 40000'.
41000	42000	1000	Med. coarse-gr. sand. top 41000'.
42000	43000	1000	Med. coarse-gr. sand. top 42000'.
43000	44000	1000	Med. coarse-gr. sand. top 43000'.
44000	45000	1000	Med. coarse-gr. sand. top 44000'.
45000	46000	1000	Med. coarse-gr. sand. top 45000'.
46000	47000	1000	Med. coarse-gr. sand. top 46000'.
47000	48000	1000	Med. coarse-gr. sand. top 47000'.
48000	49000	1000	Med. coarse-gr. sand. top 48000'.
49000	50000	1000	Med. coarse-gr. sand. top 49000'.
50000	51000	1000	Med. coarse-gr. sand. top 50000'.
51000	52000	1000	Med. coarse-gr. sand. top 51000'.
52000	53000	1000	Med. coarse-gr. sand. top 52000'.
53000	54000	1000	Med. coarse-gr. sand. top 53000'.
54000	55000	1000	Med. coarse-gr. sand. top 54000'.
55000	56000	1000	Med. coarse-gr. sand. top 55000'.
56000	57000	1000	Med. coarse-gr. sand. top 56000'.
57000	58000	1000	Med. coarse-gr. sand. top 57000'.
58000	59000	1000	Med. coarse-gr. sand. top 58000'.
59000	60000	1000	Med. coarse-gr. sand. top 59000'.
60000	61000	1000	Med. coarse-gr. sand. top 60000'.
61000	62000	1000	Med. coarse-gr. sand. top 61000'.
62000	63000	1000	Med. coarse-gr. sand. top 62000'.
63000	64000	1000	Med. coarse-gr. sand. top 63000'.
64000	65000	1000	Med. coarse-gr. sand. top 64000'.
65000	66000	1000	Med. coarse-gr. sand. top 65000'.
66000	67000	1000	Med. coarse-gr. sand. top 66000'.
67000	68000	1000	Med. coarse-gr. sand. top 67000'.
68000	69000	1000	Med. coarse-gr. sand. top 68000'.
69000	70000	1000	Med. coarse-gr. sand. top 69000'.
70000	71000	1000	Med. coarse-gr. sand. top 70000'.
71000	72000	1000	Med. coarse-gr. sand. top 71000'.
72000	73000	1000	Med. coarse-gr. sand. top 72000'.
73000	74000	1000	Med. coarse-gr. sand. top 73000'.
74000	75000	1000	Med. coarse-gr. sand. top 74000'.
75000	76000	1000	Med. coarse-gr. sand. top 75000'.
76000	77000	1000	Med. coarse-gr. sand. top 76000'.
77000	78000	1000	Med. coarse-gr. sand. top 77000'.
78000	79000	1000	Med. coarse-gr. sand. top 78000'.
79000	80000	1000	Med. coarse-gr. sand. top 79000'.
80000	81000	1000	Med. coarse-gr. sand. top 80000'.
81000	82000	1000	Med. coarse-gr. sand. top 81000'.
82000	83000	1000	Med. coarse-gr. sand. top 82000'.
83000	84000	1000	Med. coarse-gr. sand. top 83000'.
84000	85000	1000	Med. coarse-gr. sand. top 84000'.
85000	86000	1000	Med. coarse-gr. sand. top 85000'.
86000	87000	1000	Med. coarse-gr. sand. top 86000'.
87000	88000	1000	Med. coarse-gr. sand. top 87000'.
88000	89000	1000	Med. coarse-gr. sand. top 88000'.
89000	90000	1000	Med. coarse-gr. sand. top 89000'.
90000	91000	1000	Med. coarse-gr. sand. top 90000'.
91000	92000	1000	Med. coarse-gr. sand. top 91000'.
92000	93000	1000	Med. coarse-gr. sand. top 92000'.
93000	94000	1000	Med. coarse-gr. sand. top 93000'.
94000	95000	1000	Med. coarse-gr. sand. top 94000'.
95000	96000	1000	Med. coarse-gr. sand. top 95000'.
96000	97000	1000	Med. coarse-gr. sand. top 96000'.
97000	98000	1000	Med. coarse-gr. sand. top 97000'.
98000	99000	1000	Med. coarse-gr. sand. top 98000'.
99000	100000	1000	Med. coarse-gr. sand. top 99000'.

FROM	TO	TOTAL FEET	FORMATION
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—OL

FORMATION

[illegible]

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

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.

9-26-54 8165-6185, 1210 say. with st. (Core #1)

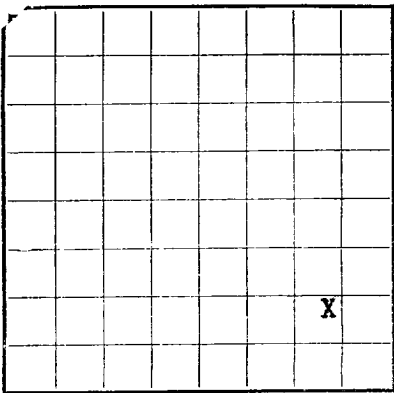
October 1, 1954, 11:15 AM, interval treated 616-617. Aetized serum with 2500 Cat. MLI and acid. BHP 1700, maximum pressure 1700, injection rate 3 bpm. per minute. Inc. Page 917 MLI. Page 2 hours after 4,950 MLI. Page 1 hours after 3,900 MLI.

October 2, 1954, I.D. stop, interval 415-425'. Sand-oil fracture below with 6650 gal. oil, and 3800 sand. BDP 1100', maximum pressure 2100', infection rare 4 barrels per minute, decreased to 1 barrel per minute. Return gauge 3090 MCF. Gauge 12 hours after 2025 MCF.

Form 9-330

Santa Fe
U. S. LAND OFFICE 076459-B
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract Allison Unit Field Wildcat State New Mexico
Well No. 7 Sec. 10 T. 32N R. 7W Meridian NMPM County San Juan
Location 990 ft. (N) of S Line and 990 ft. (E) of E Line of Section 10 Elevation 6741'
(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 Petroleum Engineer
Date October 29, 1954

The summary on this page is for the condition of the well at above date.
Commenced drilling August 20, 19 54 Finished drilling October 8, 19 54

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

No. 1, from 5604 to 5695 (G) No. 4, from 6180 to 8443 (G)
No. 2, from 5690 to 5915 (G) No. 5, from _____ to _____
No. 3, from 5915 to 6106 (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—	
13 3/8	48#	8 RD	J-55	162.36	Twice				Surface
9 5/8	36#	8 RD	J-55	3762	Laker				Intermediate
7"	26#	8 RD	N-80	604.25	Laker				Producing
7"	23#	8 RD	N-80	471.24					
7"	23#	8 RD	Foreign	4693.47					
2	4.7#	8 RD	Youngstown	8158.54					Prod. Log

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	162	150	Circulated		
9 5/8	3772	300	Single Stage		
7	8165	150			

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 Well History					

TOOLS USED

Rotary tools were used from 0 feet to 3772 feet, and from 3772 feet to 8443 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

October 10, 19 54 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 4,385,000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 2870

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	605	605	Variegated shale w/ss bks.
605	1631	1026	Tan ss w/thin sh bks.
1631	2650	1019	Tan to gry ss interbedded w/shales & coal.
2650	2932	282	Wht. coarse-gr. sand. Top 2650'.
2932	3220	288	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss. Top 2932'.
3220	3458	238	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss. Top 3220'.
3458	3525	67	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss. Top 3458'.
3525	5604	2079	Lewis form. Gry to white dense sh w/silty to shaly ss breaks. Top 3525'.
5604	5690	86	Cliff House ss. Gry, fine-grn, dense sil ss. Top 5604'.
5690	5915	225	Menefee form. Gry, fine-grn s, carb sh and coal. Top 5690'.
5915	6106	191	Point Lookout form. Gry, very fine sil ss w/ frequent sh breaks. Top 5915'.
6106	7997	1891	Mancos form. Gry carb sh. Top 6106'.
7997	8056	59	Greenhorn, highly cal. gry sh. w/thin L ^s lam. Top 7997'.
8056	8180	124	Graneros, dk. gry shale. Top 8056'.
8180	8443	263	Dakota, Lt. to dk. gry. foss. carb, sl. calc. s/ silty ss. w/pyrite inclusions thin sh. bands, clay & sh bks. Top 8180'.

FOLD MARK

