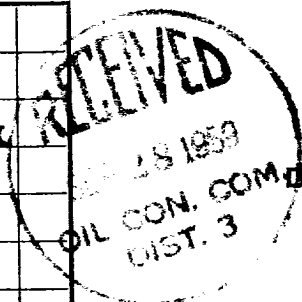
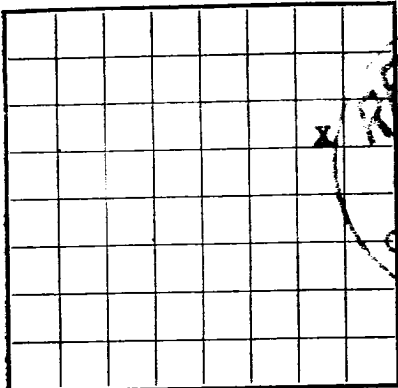


Form 9-330

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078886
LEASE OR PERMIT TO PROSPECT _____



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 Canyon Largo Unit Field Ballard P.C. Exstate New Mexico
Well No. 76 Sec. 17 T. 24N R. 6W Meridian N.M.P.M. County Rio Arriba
Location 1750 ft. N of N Line and 990 ft. E of E Line of Section 17 Elevation 6562'
(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.
Original Signed R. G. MILLER
Signed _____

Date September 23, 1959 Title Petroleum Engineer

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

Commenced drilling 5-26-59, 19____ Finished drilling 5-29, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2062 to 2145 (G) No. 4, from _____ to _____
No. 2, from 2145 to 2178 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—	
<u>8 5/8</u>	<u>26</u>	<u>8</u>	<u>API</u>	<u>114'</u>	<u>API</u>	<u>2062'</u>			<u>Production</u>
<u>5 1/2</u>	<u>19.5</u>	<u>8</u>	<u>API</u>	<u>114'</u>	<u>API</u>	<u>2145'</u>			<u>Production</u>
<u>1 1/4</u>	<u>2.4</u>	<u>10 BA</u>	<u>Grade "A"</u>	<u>2122'</u>					<u>Siphon</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8 5/8</u>	<u>124'</u>	<u>156</u>	<u>Circulated</u>		
<u>5 1/2</u>	<u>2177</u>	<u>130</u>	<u>Single Stg.</u>		

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 0 feet to 2178 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
9-1, 1959

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 1,090,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 641 A.O.F. = 1114 MCF/D

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1427</u>	<u>1427</u>	<u>Tan to gry cr-grn ss interbedded w/gry sh.</u>
<u>1427</u>	<u>1644</u>	<u>217</u>	<u>Ojo Alamo ss. White cr-grn s.</u>
<u>1644</u>	<u>1850</u>	<u>206</u>	<u>Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.</u>
<u>1850</u>	<u>2062</u>	<u>212</u>	<u>Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.</u>
<u>2062</u>	<u>2145</u>	<u>83</u>	<u>Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.</u>
<u>2145</u>	<u>2178</u>	<u>33</u>	<u>Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.</u>

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

The information given is a complete and correct record of the well and all work done thereon.
 It can be taken as a reliable record.
 Signed: James E. Miller
 Location of well: Section 17, Township 12N, Range 10E, T12N, R10E, S4E
 Name of well: W-1
 Name of owner: James E. Miller
 Name of operator: James E. Miller
 Name of recorder: James E. Miller
 Date: 1912
 Address: James E. Miller, 1212 1/2 Broadway, New York, N.Y.
 State: New York
 Field: New York
 Company: James E. Miller
 Lessor or Trust: James E. Miller
 Well No.: W-1
 Section: 17
 Township: 12N
 Range: 10E
 State: N.Y.
 Name of well: W-1
 Name of owner: James E. Miller
 Name of operator: James E. Miller
 Name of recorder: James E. Miller
 Date: 1912
 Address: James E. Miller, 1212 1/2 Broadway, New York, N.Y.
 State: New York
 Field: New York
 Company: James E. Miller
 Lessor or Trust: James E. Miller

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

Completed drilling _____ 19____ Finished drilling _____ 19____

This well is _____

OIL OR GAS SANDS OR ZONES

(C) yd 200 stores(1)

total depth 218'. C.O.T.D. 2160'. When frac. pictured little part. Int. 202-90; 210-18; 2130-40 (2 pt/ft.) w/40,000 gallons water and 40,000# sand. Finished w/2360 gallons water. I.K. 24.8 BHM. Max. pr. 2800'. DDP 1500', tr. pr. 1450-1600-2000-2300-2700-3300'. 7 stages - dropped 2 sets of 15 balls, 3 sets of 10 balls, 1 set of 5 balls. Spotted 250 gal. MDA before part. Used 1% Calcium Chloride in frac. water. Used 20 gallons 0-2 soap in finish.

CASING RECORD

[illegible]

HISTORY OF OIL OR GAS WELL

U.S. GOVERNMENT PRINTING OFFICE

MUDDING AND CEMENTING RECORD

100-443886-1000

LETTERS AND ADAPTATIONS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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SHOOTING RECORD

[Faint, illegible markings]

TOOLS USED

1961	to 1961	1961	to 1961	1961	to 1961
1961	to 1961	1961	to 1961	1961	to 1961

DATE

10	Put to proving
----	----------------

..... 100%

[illegible]

Book pressure, lbs. per sq. in.	at	EMPLOYEES	at	Book pressure, lbs. per sq. in.

EMPLOYEES

	Driller	
Driller		

FORMATION RECORD

FORMATION	TOTAL	25
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[illegible]

FORMATION RECORD—Continued

FORMATION

TOTAL FEET

—OL

—WORK