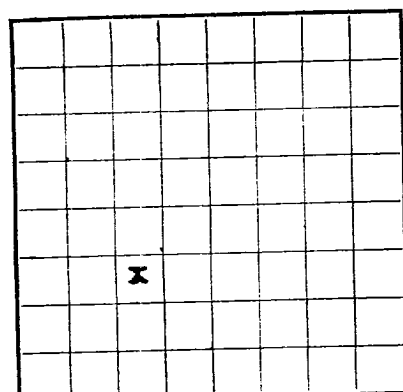




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Jicarilla
SERIAL NUMBER Lease No. 41
LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Jicarilla Tribal

U. S. GEOLOGICAL SURVEY
FEDERAL BUREAU OF RESEARCH

LOG OF OIL OR GAS WELL

Company EL PASO NATURAL GAS COMPANY Address Box 997, Farmington, New Mexico
Lessor or Tract Jicarilla Field S. Blanco PC State New Mexico
Well No. 5-D Sec. 29 T. 25N R. 4W Meridian N.M.P.M. County Rio Arriba
Location 1650 ft. [N.] of S Line and 1740 ft. [E.] of W Line of Sec. 29 Elevation 6947
(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 December 9th, 1959Title Division Petroleum Engineer

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

Commenced drilling April 29th, 19 59 Finished drilling November 14th, 19 59OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 3126 to 3190 (G) No. 4, from _____ to _____
No. 2, from _____ to _____ 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—	
8-5/8"	24#	8	A	3190	Pattern	3190	3178	3190	Production
5-1/2"	17#	8	A	3190	Pattern	3190	3178	3190	Production
1-1/4"	2.4#		A	3190					Tubing String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	98	70	Pump & Plug		
5-1/2"	3258	100	" " "		
1-1/4"	3198				

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth set _____
Adapters—Material None Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Cleaned out to 3219'. Sandfraced through perforations with 26,082 gallons water and 30,000# sand. Breakdown pressure 2700#. treating pressure 1700-2600#. average injection rate 59.4 BPM. Used 25 rubber balls.						

TOOLS USED

Rotary tools were used from Surface feet to 3258 feet, and from _____ feet to _____ feet
Cable tools were used to complete feet to _____ feet, and from _____ feet to _____ feet

DATES

Ran Tubing Potential Test
November 21st, 19 59 Put to producing December 2nd, 19 59

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 709,000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 346 Open 3 hours through 3/4" choke on casing. Choke volume 706 MCF/day.

EMPLOYEES

Benson-Montin-Greer, Driller
Drilling Corp., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	3038	3038	Surface sand and shale, Ojo Alamo, Kirtland & Fruitland formations
3038	3041	3	Coal
3041	3051	10	Shale
3051	3054	3	Coal
3054	3080	26	Shale
3080	3088	8	Coal
3088	3101	13	Shale
3101	3108	7	Coal
3108	3126	18	Shale
3126	3190	64	Sand
3190	3258	68	Shale
			TOP OF PICTURED CLIFFS (ES) 3126'

FORMATION RECORD—Continued

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A blank sheet of white graph paper with a light gray grid pattern. The grid consists of horizontal and vertical lines forming small squares across the entire page. There are no margins or other markings on the paper.

LOCATE WELL CORRECTLY

(Commenced drilling April 5, 1933, finished drilling December 11, 1933)
The summary on this page is for the condition of the well at above date
Date December 29, 1933
The National Petroleum Refining Association

(G) ud an store(I)

No. 1, from	to	1946 (19)
No. 2, from	to	
No. 3, from	to	
No. 4, from	to	
No. 5, from	to	
No. 6, from	to	

..... to from No. 3

..... to from No. 4

Case No.	Size per foot	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and drilled from	From To	Performed	Purpose
1	4 1/2	120	11	Waco	100	Open	From top of well to bottom of casing	1910	1911	To pump water from the well
2	4 1/2	120	11	Waco	100	Open	From top of well to bottom of casing	1910	1911	To pump water from the well
3	4 1/2	120	11	Waco	100	Open	From top of well to bottom of casing	1910	1911	To pump water from the well
4	4 1/2	120	11	Waco	100	Open	From top of well to bottom of casing	1910	1911	To pump water from the well
5	4 1/2	120	11	Waco	100	Open	From top of well to bottom of casing	1910	1911	To pump water from the well
6	4 1/2	120	11	Waco	100	Open	From top of well to bottom of casing	1910	1911	To pump water from the well
7	4 1/2	120	11	Waco	100	Open	From top of well to bottom of casing	1910	1911	To pump water from the well
8	4 1/2	120	11	Waco	100	Open	From top of well to bottom of casing	1910	1911	To pump water from the well
9	4 1/2	120	11	Waco	100	Open	From top of well to bottom of casing	1910	1911	To pump water from the well
10	4 1/2	120	11	Waco	100	Open	From top of well to bottom of casing	1910	1911	To pump water from the well

[illegible]

1980-1981

[illegible]

Horizontal distance	Length	Depth
100	100	100
200	200	200
300	300	300
400	400	400
500	500	500
600	600	600
700	700	700
800	800	800
900	900	900
1000	1000	1000

Death occurred out

[illegible]

Patent tools were used from 1935 to 1937 and from 1940 to 1942.

Cable tools were used from	To	DATES	From and from	To

Put to producing	December 1, 1910
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The production for the first	24 hours was		periods of fluid of which	 % was oil.
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It was well, cut off per 24 hours	100	100
emulsion: 100 water and 100 oil	100	100

Rock pressure, lbs. per sq. in. _____

EMPLOYEES _____

.....

INFORMATION

	1957-1958	1958	1959
1957-1958	1958	1959	1960
1958	1959	1960	1961
1959	1960	1961	1962
1960	1961	1962	1963
1961	1962	1963	1964
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2010	2011	2012	2013
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2012	2013	2014	2015
2013	2014	2015	2016
2014	2015	2016	2017
2015	2016	2017	2018
2016	2017	2018	2019
2017	2018	2019	2020
2018	2019	2020	2021
2019	2020	2021	2022
2020	2021	2022	2023
2021	2022	2023	2024
2022	2023	2024	2025
2023	2024	2025	2026
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2026	2027	2028	2029
2027	2028	2029	2030
2028	2029	2030	2031
2029	2030	2031	2032
2030	2031	2032	2033
2031	2032	2033	2034
2032	2033	2034	2035
2033	2034	2035	2036
2034	2035	2036	2037
2035	2036	2037	2038
2036	2037	2038	2039
2037	2038	2039	2040
2038	2039	2040	2041
2039	2040	2041	2042
2040	2041	2042	2043
2041	2042	2043	2044
2042	2043	2044	

FORMATION

1.50