

U. S. LAND OFFICE Santa FeSERIAL NUMBER 078840

LEASE OR PERMIT TO PROSPECT

14-08-001-459UNITED 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 San Juan 28-7 Unit Field So. Blanco State New Mexico
Well No. 13 Sec. 1 T. 27N R. 7W Meridian NMP County Rio Arriba
Location 1650 ft. N. of S. Line and 1650 ft. E. of W. Line of Section 17 Elevation 6539'
(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 R. F. SadlockDate September 15, 1954 Title Petroleum Engineer

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

Commenced drilling June 22, 1954 Finished drilling July 20, 1954

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2864 to 2947 (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	
<u>9 5/8</u>	<u>25.4</u>	<u>S.W.</u>	<u>Arco</u>	<u>122</u>	<u>Arco</u>				<u>Surface</u>
<u>5 1/2</u>	<u>15.50</u>	<u>8 RD</u>	<u>Youngstown</u>	<u>2895</u>	<u>Arco</u>				<u>Prod. Cas.</u>
<u>1</u>	<u>1.68</u>	<u>8 RD</u>	<u>Youngstown</u>	<u>2895</u>					<u>Prod. Tbg.</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9 5/8</u>	<u>134</u>	<u>125</u>	<u>Circulated</u>		
<u>5 1/2</u>	<u>2850</u>	<u>150</u>	<u>Single Stage</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

Send Oil, see Well History.

TOOLS USED

Rotary tools were used from _____ feet to 2858 feet, and from _____ feet to _____ feet
Cable tools were used from 2858 feet to 2947 (Prod) and from _____ feet to _____ feet

DATES

_____ July 31, 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 5,369,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 329

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>648</u>	<u>648</u>	<u>Tan cr-grn ss w/thin sh breaks.</u>
<u>648</u>	<u>1266</u>	<u>618</u>	<u>Variegated sh w/thin sh breaks.</u>
<u>1266</u>	<u>2040</u>	<u>774</u>	<u>Tan to gry cr-grn ss interbedded w/gry sh.</u>
<u>2040</u>	<u>2169</u>	<u>129</u>	<u>Ojo A amo ss. White cr-grn s. Tops 2040.</u>
<u>2169</u>	<u>2620</u>	<u>451</u>	<u>Kirtland Form. Gry sh interbedded w/tight gry fine-grn ss. Tops 2169.</u>
<u>2620</u>	<u>2864</u>	<u>244</u>	<u>Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss. Tops 2620/</u>
<u>2864</u>	<u>2947 T.D.</u>	<u>83</u>	<u>Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss. Tops 2864.</u>

FORMATION RECORD—Continued[illegible]

HISTORY OF OIL OR GAS WELL

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.

July 30, 1954, Total Depth 2940' (Rot), interval treated 2853' - 2940' (Rot). Treated Pictured Cliffs formation, through 5 1/2" casing, with 9000 gallons #2 diesel oil and 8500# sand. Breakdown pressure 1200#, maximum pressure 1500#. Injection rate 252 gallons per minute. Flushed with 2900 gallons oil. Natural gage 650 MCF. Gage 15 hours after treatment 3,750 MCF.