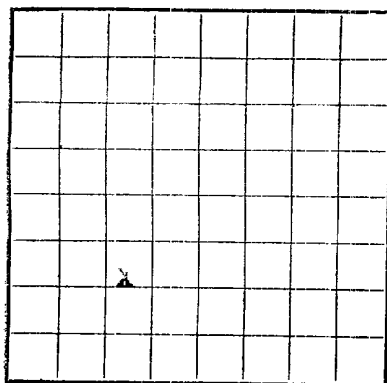




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe

SERIAL NUMBER 078972

LEASE OR PERMIT TO PROSPECT

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 San Juan 26-7 Unit Field Blanco & South Blanco PC State New Mexico
Well No. 167 (M) Sec. 11 T. 27N R. 7W Meridian N.M.P.M. County Rio Arriba
Location 1750 ft. N. of S. Line and 1650 ft. E. of W. Line of Section 11 Elevation 6610
(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 ORIGINAL CARL E. MILLER JR.Date November 4, 1959 Title Petroleum Engineer

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

Commenced drilling 7-30, 19 59 Finished drilling 8-19, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3175 to 3320 (G) No. 4, from 5430 to 5580 (G)
No. 2, from 4894 to 4932 (G) No. 5, from _____ to _____
No. 3, from 4932 to 5430 (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—	
<u>10 3/4</u>	<u>31.20</u>	<u>8</u>	<u>S.W.</u>	<u>100</u>	<u>Howco</u>				<u>Prod. Liner</u>
<u>7 5/8</u>	<u>25.4</u>	<u>8</u>	<u>J-55</u>	<u>3408</u>	<u>Baker</u>				<u>Prod. Liner</u>
<u>5 1/2</u>	<u>15.5</u>	<u>8</u>	<u>J-55</u>	<u>2276</u>	<u>Baker</u>				<u>Prod. Liner</u>
<u>2</u>	<u>4.7</u>	<u>8</u>	<u>J-55</u>	<u>5456</u>					<u>Prod. Liner</u>
<u>1 1/4</u>	<u>2.4</u>	<u>8</u>	<u>Grade "A"</u>	<u>3174</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>10 3/4</u>	<u>174</u>	<u>100</u>	<u>Circulated</u>		
<u>7 5/8</u>	<u>3418</u>	<u>130</u>	<u>Single Stage</u>		
<u>5 1/2</u>	<u>3358-5634</u>	<u>450</u>	<u>Single Stage & Squeeze</u>		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

Guiberson "AG" Packer at 4725'

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
			<u>See Well History</u>			

TOOLS USED

Rotary tools were used from 174 feet to 3418 feet, and from 3418 feet to 5636 feetCable tools were used from 0 feet to 174 feet, and from _____ feet to _____ feet

DATES

_____, 19 59 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 PC-1,748,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. MV-2,804,000PC-1055; M.V. 1063A.O.F. = PC-179; MV-3270 MCF/D

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>2340</u>	<u>2340</u>	<u>Tan to gry cr-grn ss interbedded w/gry sh.</u>
<u>2340</u>	<u>2505</u>	<u>165</u>	<u>Ojo Alamo ss. White cr-grn s.</u>
<u>2505</u>	<u>2950</u>	<u>445</u>	<u>Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.</u>
<u>2950</u>	<u>3175</u>	<u>225</u>	<u>Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.</u>
<u>3175</u>	<u>3320</u>	<u>145</u>	<u>Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.</u>
<u>3320</u>	<u>4894</u>	<u>1574</u>	<u>Lewis formation. Gry to white dense sh w/salty to shaly ss breaks.</u>
<u>4894</u>	<u>4932</u>	<u>38</u>	<u>Cliff House ss. Gry, fine-grn, dense sil ss.</u>
<u>4932</u>	<u>5430</u>	<u>498</u>	<u>Manefee form. Gry, fine-grn s, carb sh & coal.</u>
<u>5430</u>	<u>5580</u>	<u>150</u>	<u>Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.</u>
<u>5580</u>	<u>5636</u>	<u>56</u>	<u>Mancos formation. Gry carb sh.</u>

_____ DATE _____

_____ SIGNATURE _____

_____ PRINT NAME _____

37 0 8 1 0000

GROUP 1 40 0 00000000

[illegible]

NEW 242 45 410 40 001

F. S. M. 114W 2 FACOL

8-21-59 I.D. 4636 I.C.T.D. 5590. Water floc. Point lookout pert. Int. 5432-5442; 5452-5464; 5460-5466; 5520-5530; 5544-5552 w/43,504 g.t. water & 50,000 sand. Bbl 1100; max. pr. 2950#. Avg. tr. pr. 1100#. I.B. 74.2 BHM. Flush 9030 g.t.
 8-22-59 Temp. Bt & 5300#. Water floc. CLRT House pert. Int. 4896-4902; 4924-4930 w/29,110 gal. water & 36,000 sand. Bbl 3000; max. pr. 3000#. Avg. tr. pr. 2400#. I.B. 50.5 BHM. Flush 8400 g.t.
 8-22-59 Temp. Bt & 4600#. Water floc. Measured CLRT pert. Int. 3170-3192 w/27,250 gal. water & 30,000 sand. Bbl 1500; max. pr. 2000#. Avg. tr. pr. 1500#. I.B. 71.4 BHM. Flush 7056 gal.

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 size, 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 balling.

HISTORY OF OIL OR GAS WELL

U.S. GOVERNMENT PRINTING OFFICE

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