

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079484
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 San Juan 30-4 Unit Field E. Blanco P. C. State New Mexico
 Well No. 16 Sec. 10 T. 30N R. 4W Meridian N.M.P.M. County Rio Arriba
 Location 890 ft. N. of S Line and 890 ft. E. of W Line of Section 10 Elevation 7384
 (Derive 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 Signed D. C. Johnston

Date December 11, 1957 Title Petroleum Engineer

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

Commenced drilling 9-23, 1957 Finished drilling 10-4, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4176 to 4268 (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 _____ DIST _____
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—	
9 5/8"	25.4	P. E.	S. W.	121'	Howco				Surface
5 1/2"	19.5	P. E.	S. W.	121'	Howco				Surface
HISTORY OF OIL OR GAS WELL									
2"	4.7	8 Bd.	J-55	4187'					Prod. Tubg.

MUDDING AND CEMENTING RECORD

	Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9	5/8"	132'	100	Circulated		
5	1/2"	4445'	250	Single Stage		

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 44.5 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

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 2,039,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. ----- 1042 A.C.F. = 2635 MCF/D

EMPLOYEES

_____, Driller

_____, Driller

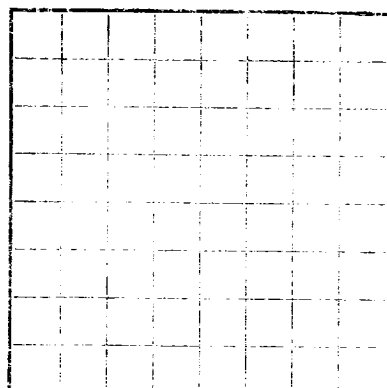
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3557	3557	Tan to gry cr-grn ss interbedded w/gry sh.
3557	3727	170	Ojo Alamo ss. White cr-grn s.
3727	3895	168	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3895	4176	281	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
4176	4268	92	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
4268	4445	177	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.

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Signed _____
Oil and Gas Division

Location _____ ft [A] of _____ ft [B] of _____ line of _____ Elevation _____ County _____ State _____ Field _____ Address _____ Company _____

Lessor or Trust Interest _____

Completed drilling _____, 19____. (Indicate drilling date and year.)

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

Date of summary _____

Title of summary _____

OIL OR GAS BANDS OR ZONES

And now, ladies,

EXHIBIT

IMPORTANT WATER STANDS

Used 1% Calcium Chloride Trac. water solution.

Port. w/SDJ/ct. int. #177-4163; #187-4215; #224-4230; #251-4267.
Treated w/59,000 gal. water and 60,000# of sand, flushed w/6000
gal. water and IR 60 B.P.M. and 1750#, max. pr. 2900#, tr. pr.
1950, 2300, 2800#. Dropped 3 sets of 20 balls each for 4 stages.

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.

HISTORY OF OIL OR GAS WELL.

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

MIDDLING AND CEMENTING RECORD

[illegible]

91709 AND 91710

SHOOTING RECORD

[illegible]

TOOLS USED

Hotel tools were used from	feet to	feet and from	feet to
	feet to	feet and from	feet to

DATE

It was not until per 84 hours					
includes one 100 watt and 75 watt					
The program for the first 24 hours was					
Par to production					

EMPLOYEES

.....	
.....	

FORMATION RECORD

[illegible]

FORMATION RECORD—Continued

FORMATION

66550

TOTAL FEET

TO-

FROM