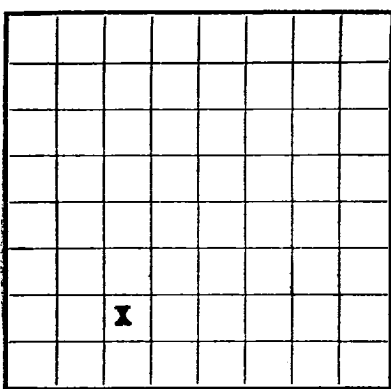
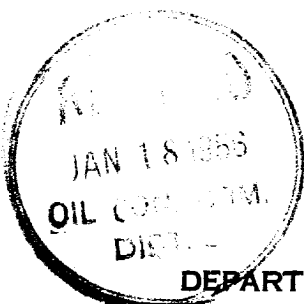




LOCATE WELL CORRECTLY

U. S. LAND OFFICE
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECTSanta Fe
076497-A

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED
DEC 27 1955
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 28-7 Unit Field Blanco State New Mexico
Well No. 21 Sec. 9 T. 28N R. 7W Meridian BMPM County Rio Arriba
Location 1080 ft. N. of S Line and 1650 ft. E. of W Line of Section 9 Elevation 6666'
(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 J. F. Salas
Date December 27, 1955 Title Petroleum Engineer

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

Commenced drilling November 2, 19 55 Finished drilling November 14, 19 55

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3338 to 3402 G No. 4, from 5520 to 5650 G
No. 2, from 4982 to 5047 G No. 5, from 5047 to 5520 G
No. 3, from 5047 to 5520 G No. 6, from 5520 to 5650 G

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
9 5/8"	25.4#	P.E.	S.W.	162'	Howe			Surface
7"	20	8 RD	J-55	162'	Howe			Intermediate
5 1/2"	15.50	8 RD	J-55	5666'	Howe			Production
2"	4.7	8 RD	J-55	5619'	Howe			Prod. Plug.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	176'	125	Circulated		
7"	3415'	250	Single Stage		
5 1/2"	5666'	300	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

Gas Drilled

Rotary tools were used from 0 feet to 3415 feet, and from 3415 feet to 5665 feet
Cable tools were used from feet to feet, and from feet to feet

DATES

November 22, 19 55 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 4,742,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 1069

EMPLOYEES

 , Driller , Driller
 , Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	255	255	Tan or-grn ss w/thin sh breaks.
255	490	235	Variegated sh w/thin ss breaks.
490	2416	926	Tan to gry or-grn ss interbedded w/gry sh.
2416	2563	147	Ojo Alamo ss. White grn s.
2563	3098	535	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3098	3338	240	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
3338	3402	64	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3402	4982	1580	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4982	5047	65	Cliff House ss. Gry, fine-grn, dense sil ss.
5047	5520	473	Mancos form. Gry, fine-grn s, carb sh & coal.
5520	5650	130	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5650	5660 T.D.	10	Mancos formation. Gry carb sh.

GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

A blank sheet of graph paper with a grid pattern. The grid consists of 10 columns and 8 rows of squares. There are no markings or text on the page.

Commenced drilling _____ November 2, 1932 _____ Finished drilling _____ November 2, 1932 _____

OIL OR GAS SANDS OR ZONES

(Derivates aus G)

Perforated Clay House with 4 shots per foot at 4908 - 5006, 5032 - 5048, 5100 - 5160. Recovered perforations in 57,000 gallons water and 55,000# sand. Pump 5100 gallons. Injection rate 50 bbls./min. Maximum pressure 2025 psi, Breakdown pressure 1425 psi, Fracturing pressure 1800 psi. No gauges.

5638-5640. Fractured perforation at 10,000 gallons water and 55,000 sand. Plugged 5600 gallons. Injection rate 1/2 bbl./min. Maximum pressure 1500 psi. Breakdown pressure 1475 psi, treating pressure 1400 psi. Set bridging plug at 5600.

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 logs were exchanges made in the casing, state fully, and if not casing was "sacked", 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 boring.

HISTORY OF OIL OR GAS WELL

[illegible]