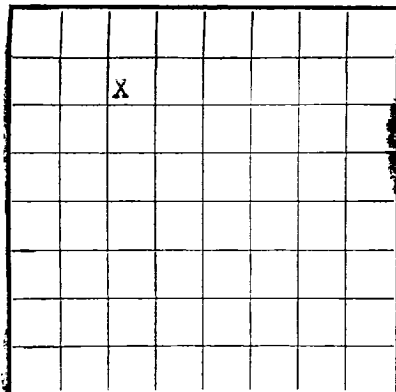


U. S. LAND OFFICE Santa FeSERIAL NUMBER 080469

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

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 Murphy Field Aztec P. C. State New Mexico
Well No. 2-A Sec. 2 T. 29N R. 11W Meridian N.M.P.M. County San Juan
Location 990 ft. S. of 1650 Line and ft. E. of W Line of Sec. 2 Elevation 5742'
(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 - GENE R. McANDate May 27, 1959Title Petroleum Engineer

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

Commenced drilling 5-2, 19 59 Finished drilling 5-5-, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2053 to 2126 (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	32	8 Rd.	J-55	124'	Howco				Surface
5 1/2	24	8 Rd.	Grade A	2083'					Siphon

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	140'	78	Circulated		
5 1/2	2152'	88	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

TOOLS USED

Rotary tools were used from 0 feet to 2152 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

5-12, 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 3,552,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 561 A.O.F. = 5015 MCF/D

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	745	745	Tan to gry cr-grn ss interbedded w/gry sh.
745	850	105	Ojo Alamo ss. White cr-grn s.
850	1686	836	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
1686	2053	367	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
2053	2126	73	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2126	2152	26	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.

FORMATION RECORD—Continued

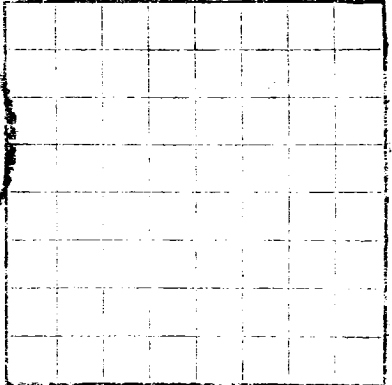
 U. S. Land Office

 SPECIAL AGENT

 IN CHARGE OF PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY.

Date _____
 State _____
 County _____
 Township _____
 Range _____
 Section _____
 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 _____

The summary on this page is for the condition of the well as above stated.

Commenced drilling
Finished drilling
.....

OIL OR GAS SANDS OR ZONES

(b) gd any other

No. 1 from	to	No. 4 from	to
No. 2 from	to	No. 5 from	to
No. 3 from	to	No. 6 from	to

IMPORTANT WATER SAVING

5-10-59 C.O.F.D. 2102. Water fractured pictures little parts. 202-04, 202-82
(2 pt/lr.) with 35,000 gallons water, 95000# sand. Flushed w/2,520
gallons water, 75000# sand. 15 Calcium Chloride. 1 R. 55 BIN.
Max. Pr. 2400 psi, HD pr. 2400 psi, Tr. pr. 1500-1800#. One set of 15 balls
for two 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

[illegible]

ESTD 1933

FORMATION RECORD—Continued