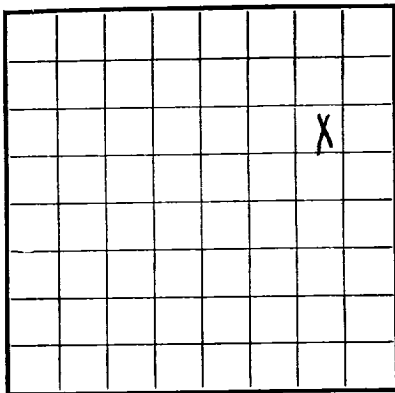


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078387-A
LEASE OR PERMIT TO PROSPECT _____

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYNOV 1 1953
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997 Farmington, New Mexico
Lessor or Tract Kernaghan Field Blanco State New Mexico
Well No. 2 Sec. 28 T. 31N R. 8W Meridian N. M. P. M. County San Juan
Location 1510 ft. S. of N. Line and 1190 ft. W. of E. Line of Section 28 Elevation 6334'
(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 [Signature]

Date October 30, 1953 Title Petroleum Engineer

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

Commenced drilling 8-9-53, 19____ Finished drilling 9-16-53, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3196 to 3300 (G) No. 4, from 5457 to 5605 (G)
No. 2, from 5024 to 5136 (G) No. 5, from _____ to _____
No. 3, from 5136 to 5457 (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
9-5/8	25.4	S. W.	Armo	161	Armo		From _____ To _____	Surface
7	17.5	8 rd	Youngst.	5580				Prod. Log.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	172'	125	Circulated		
7	4973	500	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
quart	Regular	S. H. G.	1446	9-12-53	5081-5605	5605

TOOLS USED

Rotary tools were used from _____ feet to 4973 feet, and from 4973 feet to 5605 feet Gas Drilling
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____September_____, 1953 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 3,880,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1105

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	762	762	Tan cr-grn ss w/thin sh breaks.
762	1317	555	Variegated sh w/thin ss breaks.
1317	2182	865	Tan to gry cr-grn ss interbedded w/gry sh.
2182	2317	135	Ojo Alamo ss. White cr-grn s.
2317	2928	611	Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss.
2928	3196	268	Fruitland formation. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
3196	3300	104	Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss.
3300	5024	1724	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
5024	5136	112	Cliff House ss. Gry, fine-grn, dense sil ss.
5136	5457	321	Menefee formation. Gry, fine-grn s, carb sh and coal.
5457	5605	148	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks.
5605 TD.			Manos formation. Gry carb sh.

Tops

Ojo Alamo	2182	Cliff House	5024
Kirtland	2317	Menefee	5136
Fruitland	2928	Pt. Lookout	5457
Pict. Cliffs	3196	Manos	5605
Lewis	3300		

U. S. LAND OFFICE
GENERAL INVESTIGATION
U. S. DEPARTMENT OF THE INTERIOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

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 _____

Location of Well No. _____ Sec. _____ T. _____ R. _____ N.E. _____
of _____ Township and _____ Range
County _____ State _____

Lessor or Trustee _____

Company _____

Completed drilling _____, _____, 19____. Finished casing _____, 19____.

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

Date _____ Title _____

(Dissolve gas by (c))

OIL OR GAS SANDS OR ZONES

to	from	to	from
to	from	to	from
to	from	to	from
to	from	to	from

IMPORTANT WATER SANDS

of	mod 1.0Z	of	mod 1.0Z
of	mod 1.0Z	of	mod 1.0Z

CASING RECORD

Weight per foot	Threads per inch	Grade	Amount	Kind of use	Got or pulled from	Performed To	Purpose
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It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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

MUDDING AND CEMENTING RECORD

[illegible]

PLUGS AND ADAPTERS

[illegible]

SHOOTING RECORD

Size	Spill head	Explosive head	Amount	Rate	Depth shot	Depth cleaned out
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
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64						
66						
68						
70						
72						
74						
76						
78						
80						
82						
84						
86						
88						
90						
92						
94						
96						
98						
100						

TOOLS USED

(Able tools were used from	foot to	foot and from	foot to
Rodent tools were used from	foot to	foot and from	foot to

DATE

It gas well, in ft. per 24 hours	10
emission; ... water; and ... sediment	10
The production for the first 24 hours was	10
part to producing	10

EMPLOYEES

Driller			
Driller			

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
			Masses formation. Gty. carb. sh. w/irregular sh. breaks. Point. formation. Gty. very fine sil. ss coal. Almond formation. Gty. hard, carb. sh. and Gill formation. Gty. fine, dense sil. ss. to sh. breaks. Lewis formation. Gty. to white dense sh. w/silic variegated soft ss. Potomac Gt. formation. Gty. fine-gr. nigh. coals and giv. nigh. fine-gr. ss. Frederick formation. Gty. carb. sh. scattered coals gry. fine-gr. ss. Kirkland formation. Gty. sh. interbedded w/ nigh. Ojo Alamo ss. White cr-gm. s. Tan to gry cr-gm. ss. interbedded w/ gry sh. Variegated sh. w/ thin ss. breaks. Tan cr-gm. s. w/ thin sh. breaks.