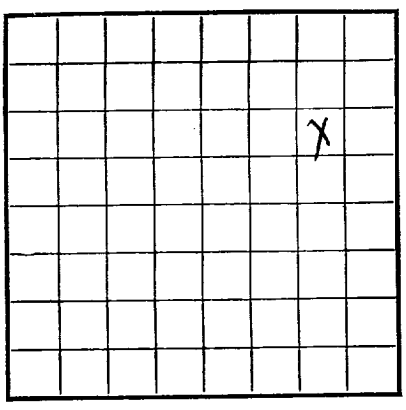
Budget Bureau No. 42-R-355.3.
Approval expires 12-31-55.

Form 9-330

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078503
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 Marshall Field Blanco State New Mexico
Well No. 2 Sec. 31 T. 29N R. 7W Meridian N. M. P. M. County Rio Arriba
Location 1600 ft. {S.} of N Line and 800 ft. {W.} of E Line of Section 31 Elevation 6615 (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. Schuleman

Date October 20, 1953 Title Petroleum Engineer

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

Commenced drilling 8-10, 19 53 Finished drilling 8-26, 19 53

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3267 to 3310 (G) No. 4, from 5512 to 5592 (G)
No. 2, from 4900 to 5055 (G) No. 5, from ____ to ____
No. 3, from 5055 to 5512 (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 From—	Perforated To—	Purpose
9-5/8"	25.4	S. W.	Armco	161	Armco				Surface
7"	23	8 rd	Youngst.	4840	Youngst.				Prod. Csg.
4½"	10.5	8 rd	Youngst.	5593	Youngst.				Prod. Csg.
2"	4.7	8 rd	Youngst.	5525					Prod. Tbg.

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"	4840	500	Sing. 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.N.G.	2142	8-26-53	4885-5593	5593

TOOLS USED

Rotary tools were used from 0 feet to 4840 feet, and from 4840 feet to 5593 feet
Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

DATES

August 28, 19 53 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 3,020,000 Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. 1051

EMPLOYEES

____, Driller ____, Driller
____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	678	678	Tan cr-grn ss w/thin sh breaks. Variegated sh w/thin ss breaks.
678	1712	1034	Tan to gry cr-grn ss interbedded w/gry sh.
1712	2420	708	Ojo Alamo ss. White cr-grn s.
2420	2490	70	Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss.
2490	2866	376	Fruitland formation. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
2866	3267	401	Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss.
3267	3310	43	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
3310	4900	1590	Cliff House ss. Gry, fine-grn, dense sil ss. Menefee formation. Gry, fine-grn s, carb sh and coal.
4900	5055	155	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks.
5055	5512	457	Mancos formation. Gry carb sh.
5512	5592	80	
5592 TD			

Tops

Ojo Alamo	2420	Cliff House	4900
Kirtland	2490	Menefee	5055
Fruitland	2866	Pt.Lkout	5512
Pict. Cli	3267	Mancos	5592
Lewis	3310		

FOLD | MARK

Budget Bureau No. 42-R355.4.
Approval expires 12-31-55.

Form 9-330

U. S. LAND OFFICE ....
SERIAL NUMBER ....
LEASE OR PERMIT TO PROSPECT ....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company .... Address ....

Lessor or Tract .... Field .... State ....

Well No. ...... Sec. ...... T. ...... R. ...... Meridian .... County ....

Location ...... ft. {N/S} of ...... Line and ...... ft. {E/W} of ...... Line of .... Elevation ...... (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 ....

Date .... Title ....

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

Commenced drilling ...., 19...... Finished drilling ...., 19......

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

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 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 From—	Perforated To—	Purpose

HISTORY OF OIL OR GAS WELL

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.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

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 .... feet to .... feet, and from .... feet to .... feet

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

DATES

.................., 19...... 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 .... Gallons gasoline per 1,000 cu. ft. of gas ....

Rock pressure, lbs. per sq. in. ....

EMPLOYEES

.................., Driller ...., Driller

.................., Driller ...., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			Tan cr-grn ss w/thin sh breaks.
			Variegated sh w/thin ss breaks.
			Tan to gry cr-grn ss interbedded w/gry sh.
			Ojo Alamo ss. White cr-grn s.
			Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss.
			Fruitland formation. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
			Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss.
			Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
			Cliff House ss. Gry, fine-grn, dense sil ss.
			Menefee formation. Gry, fine-grn s, carb sh and coal.
			Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks.
			Mancos formation. Gry carb sh.

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD—Continued