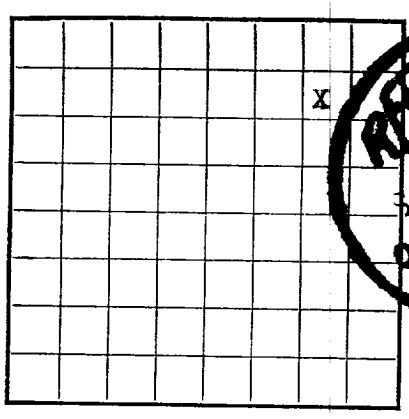
Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078194
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

RECEIVED
SEP 14 1956
OIL CON. COM.
DIST. 3

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 Ludwick Field Blanco M.V. Aztec P.C. State New Mexico
Well No. 10 (PM) Sec. 29 T. 30N R. 10W Meridian NMPM County San Juan
Location 990 ft. {N. / S.} of N Line and 990 ft. {E. / W.} of E Line of Sec. 29 Elevation 6213' (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 W. F. Arant

Date September 6, 1956 Title Petroleum Engineer

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

Commenced drilling 6-10-56, 19 Finished drilling 8-2-56, 19

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 2702 to 2821 (G) No. 4, from 5013 to 5254 (G)
No. 2, from 4357 to 4503 (G) No. 5, from to
No. 3, from 4503 to 5013 (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
10 3/4"	32.75	R.E.	S.H.	163'	Homco				Surface
7"	23	8 RD	J-55	4625'	Baker				Int. Csg.
7"	20	8 RD	J-55	4625'	Baker				Int. Csg.
5 1/2"	15.5	8 RD	J-55	768'	Baker				Prod. Csg.
2"	4.7	8 RD	J-55	5203'					Liner Prod. Tbg.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	175'	250	Circulated		
7"	4607'	300	(Two stages 150 sks. on each stage)		
5 1/2"	4526-5298	150	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 175 feet to 4625 feet, and from 4625 feet to 5315 feet (Gas Drilled)
Cable tools were used from 0 feet to 175 feet, and from feet to feet

DATES

8-12-56, 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 P.C. 2,430,000 M.V. 2,732,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. Casing 563 Tubing 638 A.O.F. - P.C. 2,655 MCF/D. M.V. 4,411 MCF/D.

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1398	1398	Tan to gry cr-grn ss interbedded w/gry sh.
1398	1498	100	Ojo Alamo ss. White cr-grn s.
1498	2381	883	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2381	2702	321	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
2702	2821	119	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2821	4357	1536	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4357	4503	146	Cliff House ss. Gry, fine-grn, dense sil ss.
4503	5013	510	Menefee form. Gry, fine-grn s, carb sh & coal.
5013	5254	241	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5254	5315	61	Mancos formation. Gry carb sh.

[OVER]

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

[OVER]

16—43094-2

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD

Driller ..... Driller .....

Driller ..... Driller .....

EMPLOYEES

Rock Pressure, lbs. per sq. in. .....

Hours well on, if. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

DATES

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

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

TOOLS USED

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

SHOOTING RECORD

Adapters—Material ..... Size .....

Heaving plug—Material ..... Length ..... Depth set .....

PLUGS AND ADAPTERS

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

MUDDING AND CEMENTING RECORD

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

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.

8-6-56 T.D. 5315'. C.O.T.D. 5298'. Water fraced Point Lookout perf. int. 4984-4998, 5020-5038, 5084-5094 w/79,700 gallons water & 100,000# sand. BDP 2100#, maximum pressure 1650#, Averagetreating pressure 1150#. Injection rate 71.25 BPM. Flush 8300 gallons.

8-5-56 T.D. 5315'. Temp. B.P. @ 4600'. Water fraced Pictured Cliffs perf. int. 2703-2718, 2741-2754 w/42,880 gal. water & 60,000# sand. BDP 1375#, maximum pressure 1150#, Averagetreating pressure 1150#. Injection rate 83.26 BPM. Flush 2800 gallons.

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 .....

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

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

Date ..... Title .....

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Date ..... Title .....

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

Company ..... Address ..... State .....
Lessor or Tract ..... Field ..... County .....
Well No. ..... Sec. ..... T. ..... R. ..... Meridian .....
Location ..... ft. {N. / S.} of ..... line and ..... ft. {E. / W.} of ..... line of ..... Elevation .....

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

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MARK | ECTD