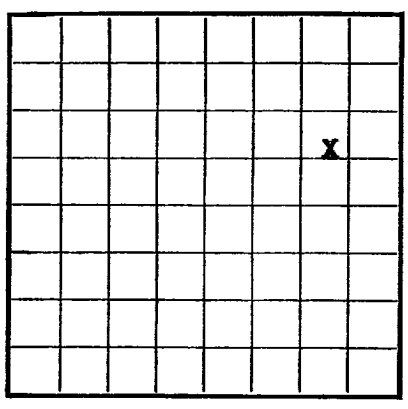
Form 9-330

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
DEC 26 1956
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 Ludwick Field Aztec P.C. & Blanco Ext. State New Mexico
Well No. 14 (PM) Sec. 6 T. 29N R. 10W Meridian NMPM County San Juan
Location 1650 ft. {N. / S.} of S Line and 992 ft. {E. / W.} of E Line of Section 6 Elevation 5867' (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. L. Ellsworth

Date December 19, 1956 Title Petroleum Engineer

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

Commenced drilling 7-14-56, 19 Finished drilling 10-29-56, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2241 to 2329 (G) No. 4, from 4560 4758 (G)
No. 2, from 3807 to 3963 (G) No. 5, from
No. 3, from 3963 to 4560 (G) No. 6, from

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IMPORTANT WATER SANDS

No. 1, from to No. 3, from
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	8 R	S.W.	161'	Baker				Surface
7"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
5 1/2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
2"	4.7	8 RD	J-55	4873'					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	171'	125	Circulated		
7"	4159'	300	2 stages (150 sacks on each stage)		
5 1/2	4085-4808	120	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 4160 feet, and from 4160 feet to 4810 feet (Gas Drilled)
Cable tools were used from 0 feet to 175 feet, and from feet to feet

DATES

11-6-56, 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 PC 4,103,000 MV 3,147,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. PC 621 MV 1025 A.O.F. - P.C. 5207 MCF/D, M.V. 3739 MCF/D.

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	972	972	Tan to gry cr-grn ss interbedded w/gry sh.
972	1097	125	Ojo Alamo ss. White cr-grn s.
1097	1865	768	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
1865	2241	376	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
2241	2329	88	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2329	3807	1478	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
3807	3963	156	Cliff House ss. Gry, fine-grn, dense sil ss.
3963	4560	597	Menefee form. Gry, fine-grn s, carb sh & coal.
4560	4758	198	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
4758	4810	52	Mancos formation. Gry carb sh.

[OVER]

16—43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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.

11-1-56 T.D. 4810', C.O.T.D. 4700'. Fraced Point Lookout thru perfs. Welex jets 4/ft. 4672-4660, 4616-4600, 4580-4580, 4572-4560, 4541-4534 with 87,570 gallons water and 100,000# sand. Flush with 6100 gallons. BDP 2100# to 2000# (2 pumps). Maximum pressure 1650#, Average treating pressure 1400#. Injection rate 75.6 BPM.

11-1-56 Temp. Plug 4120', Fraced Pictured Cliff thru perfs. Welex 4 jets/ft. 2238-2243 with 54,600 gallons water and 60,000# sand. Flush with 2520 gallons. BDP 1200# to 1050# (2 pumps). Maximum pressure 1500#. Average treating pressure 1350#. Injection rate 75.8 BPM.

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

Completed drilling ..... 19..... Finished drilling ..... 19.....

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

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

Signed .....

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.

Location ..... ft. of ..... Line and ..... ft. of ..... Line of ..... Elevation ..... (Denote gas by G, oil by O)

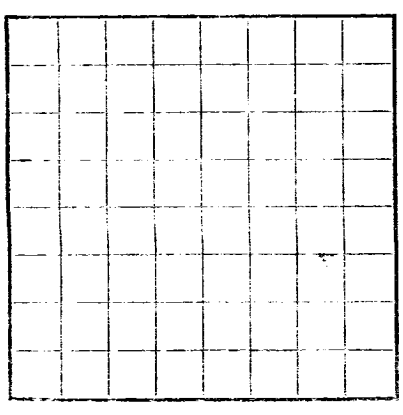
Well No. ..... T. ..... R. ..... Meridian ..... County .....

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

Company ..... Address .....

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY



UNITED STATES RECEIVED
DEPARTMENT OF THE INTERIOR DEC 30 1956
GEOLOGICAL SURVEY U. S. GEOLOGICAL SURVEY FARMINGTON, NEW MEXICO

FORM 9-329