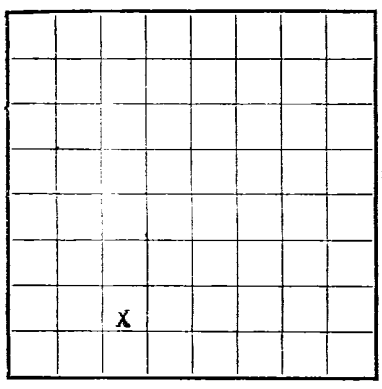
Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079364
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 Rincon Unit Field ~~Blanco Dak. Ext.~~ Blanco M.V. & So. State New Mexico
Well No. 149(MD) Sec. 30 T. 27N R. 6W Meridian N.M.P.M. County Rio Arriba
Location 1100 ft. [N.] of S. Line and 1750 ft. [E.] of W. Line of Section 30 Elevation 6626 (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 SIGNED J.J. TILLERSON

Date December 22, 1959 Title Petroleum Engineer

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

Commenced drilling 9-24, 1959 Finished drilling 10-24, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4685 to 4786 (G) No. 4, from 7284 to 7449 (G)
No. 2, from 4786 to 5326 (G) No. 5, from 7449 to 7637 (G)
No. 3, from 5326 to 5460 (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
13 3/8	48	8 Rd.	Lone	306	Lone				Surface
9 5/8	40 & 36	8 Rd.	J-55 & J-55	3221	Baker				Intermediate
7"	23	8 Rd.		7222	Baker				Prod. Csg.
5"	15	8 Rd.	J-55	479	Baker				Prod. Liner
2"	4.7	8 Rd.	J-55	7432					Prod. Tbg.
2"	4.7	8 Rd.	J-55	5501					Prod. Tbg.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	317	230	Circulated		
9 5/8"	3252	150	Single Stage		
7"	7255	1006	Single Stage		
5"	7172-7651	50	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size Baker Model "D" Production Packer @ 5680

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		See Well History				

TOOLS USED

Rotary tools were used from 0 feet to 3253 feet, and from 3253 feet to 7524 feet
Cable tools were used from feet to feet, and from feet to feet

Gas Drilled
Mud Circulation
7521 7653

DATES

11-12, 1959 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 M-1,780,000 D-4,780,000 Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

M-1114; D-1910 A.O.F.=' M-1823; D-5703 MCF/D

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2408	2408	Tan to gry cr-grn ss interbedded w/gry sh.
2408	2489	81	Ojo Alamo ss. White cr-grn s.
2489	2885	396	Kirtland form. Gry sh interbedded w/tight gry fine grn ss.
2885	3059	174	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3059	3145	86	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3145	4685	1540	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4685	4786	101	Cliff House ss. Gry, fine-grn, dense sil ss.
4786	5326	540	Menefee form. Gry, fine-grn s, carb sh & coal.
5326	5460	134	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5460	6452	992	Mancos formation. Gry carb sh.
6452	6860	408	Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg interbed sh.
6860	6920	60	Tocito form. Fr to md grn sub angular to sub rd clr quartz sd glauco lt gr to tan.
6920	7222	302	Sanastee form. Drk gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s.
7222	7284	62	Greenhorn form. Highly calc gry sh w/thin lmst.
7284	7449	165	Graneros form. Dk gry shale, fossil & carb w/prite incl.
7449	7637	188	Dakota form. Lt to dk gry foss carb sl calc sil silty ss w/prite incl thin sh bands clay & shale breaks.
7637	7653	16	Morrison form. Interbed grn brn & red waxy

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
7637	7653	16	Morrison form. Interbed grn brn and red waxy sh & fr. to cr grn sd.

HISTORY OF OIL OR GAS WELL

16—48094-2 U. S. GOVERNMENT PRINTING OFFICE

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.

10-29-59 Perf. Dak. 7450-60; 7490-7500; 7506-16; 7524-34 (w/2 DJ/ft) Fraced w/ 50,000 gallons oil and 50,000# sand. Flushed w/12,000 gallons oil, and 50,000# sand. Flushed w/12,000 gallons oil. I.R. 44.2 BPM. BD pr. 3200#. Avg. tr. pr. 3100-3350-3400-3600#. Dropped 1 set of balls for 2 stage frac. Spotted 500 gals. MCA on perf. zone. 1st stage set CIBP @ 7900 7900'.

10-29-59 Second stage spotted 1000 gallons on zone to be perf. Perforated Graneros 7320-7328; 7334-7342; 7347-7353; 7358-7366 (2 DJ/ft.) fraced w/29,688 gallons oil, 22,000# sand. Flushed w/11,000 gallons oil. I.R. 38.9 BPM. BD pr. 3700#, avg. tr. pr. 3700-3600-3500-3600#.

11-6-59 Set WME bridge plug at 7290'. Perf. Point Lookout & Menefee form. 5166-74; 5212-16; 5226-30; 5244-50; 5256-62; 5272-76; 5304-14; 5328-38; 5367-77; 5396-5406; 5416-24; 5430-36; 5446-59; 5486-96 (2 DJ/ft.) fraced w/100,000 gallons water and 100,000# sand. BD pr. 1600#. I.R. 34.5 BPM. Tr. pr. 1500-2000-2500-2900-3500-3750#. Dropped 7 sets of 20 balls for 8 stg. frac.