Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER [illegible]
LEASE OR PERMIT TO PROSPECT
[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 28-7 Unit Field Blanco State New Mexico
Well No. 13 Sec. [illegible] T. 28N R. [illegible] Meridian N.M.P.M. County Rio Arriba
Location [illegible] ft. {N. / S.} of S Line and 1550 ft. {E. / W.} of W Line of Section 8 Elevation 6827 (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 [illegible]

Date November 15, 1954 Title Petroleum Engineer

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

Commenced drilling September 1, 1954 Finished drilling October 17, 1954

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3664 to 3710 (G) No. 4, from 5311 to 5975 (G)
No. 2, from 5320 to 5512 (G) No. 5, from to
No. 3, from 5512 to 5811 (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	8 R	Armco	164	Armco				Surface
7	23	8 RD	Republic	5296	Baker				Prod. Csg.
2	4.7	8 RD	Youngstown	5953					Prod. Tbg.

RECEIVED NOV 23 1954 OIL CON. COM. DIST. 3

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8	175	125	Circulated		
7	5306	50	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 0 feet to 5306 feet, and from 5306 feet to 5975 feet
Cable tools were used from feet to feet, and from feet to feet

Gas Drilling

DATES

October 19, 1954 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 4,972,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 1060

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	613	613	Tan cr-grn ss w/thin sh breaks. Variegated sh w/thin ss breaks.
613	1610	997	Tan to gry cr-grn ss interbedded w/gry sh.
1610	2789	1179	Ojo Alamo ss. White cr-grn s.
2789	2945	156	Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss.
2945	3300	355	Fruitland formation. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
3300	3668	368	Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss.
3668	3710	42	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
3710	5320	1610	Cliff House ss. Gry, fine-grn, dense sil ss.
5320	5512	184	Menefee formation. Gry, fine-grn ss, carb sh and coal.
5512	5811	299	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks.
5811	5975	164	Mancos formation. Gry carb sh.

16—43094-3

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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.

Oct. 15, 1954, T.D. 5510', interval 5306-5510'. Sand-oil fracture Cliff House with 14,130 gallons oil, 6500# sand. BDP 700#, maximum pressure 1000#, IR 9 bbls./min. Natural gage 170 MCF, gage 9 hours after, 2830 MCF.

Oct. 17, 1954 T.D. 5832', interval 5743-5832'.
Sand-oil frac. Point Lookout with 3,200 gal. oil and 19[illegible]# sand. BDP 1100#, packer failed. Second treatment 10-18-54 from 5734' - 5832' with 13,900 gallons oil, 6900# sand. BDP 1100#, maximum press. 1100#, IR 445 gal./min. Natural gage 3,300 MCF. Gage 11 hours after 5,120 MCF.