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

Form 9-330

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078569
LEASE OR PERMIT TO PROSPECT 14-08-001-459

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
NOV 20 1958
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

X

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. 87 Sec. 8 T27N R. 7W Meridian N.M.P.M. County Rio Arriba
Location 1475 ft. {N.} of S Line and 1190 ft. {E.} of W Line of Section 8 Elevation 6656'
(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 R. G. MILLER

Date November 17, 1958 Title Petroleum Engineer

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

Commenced drilling 5-9-, 1958 Finished drilling 8-11-, 1958

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
10 3/4"	32.75	P.E.	S.W.	162'	Howco				Surface
7 5/8"	26.40	8 Rd.	J-55	3272'	Baker				Intermediate
5 1/2"	15.50	8 Rd.	J-55	2321'	Baker				Prod. Liner

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	174'	140	Circulated		
7 5/8"	3282'	200	Single stage		
5 1/2"	3222-5543'	300	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 3284 feet, and from 3284 feet to 5547 feet (Gas Drilled)
Cable tools were used from 0 feet to 175 feet, and from ..... feet to ..... feet

DATES

T.A. 8-23-58, 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 T.A. 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
0	2080	2080	Tan to gry cr-grn ss interbedded w/gry sh.
2080	2376	296	Ojo Alamo ss. White cr-grn s.
2376	2872	296	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2872	3114	242	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3114	3197	83	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3197	4780	1583	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4780	4850	70	Cliff House ss. Gry, fine-grn, dense sil ss.
4850	5372	522	Menefee form. Gry, fine-grn s, carb sh & coal.
5372	5500	128	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5500	5547	47	Mancos formation. Gry carb sh.

16—43094-4

FOLD | MARK

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.

8-14-58 Perf. Point Lookout from 5372-5392; 5414-5434; 5442-5454; 5464-5486 w/2 DJ/ft. SWF w/60,606 gallons water and 57,500# sand. Formation broke at 1200#, tr. pr. 1200-1500-2500-2750-3000#. No flush. I.R. 50.3 B.P.M. Sanded off. Dropped 4 sets of 25 balls for a 5 stage frac.

8-20-58 Re-frac Point Lookout w/50,000 gallons water and 25,000# sand w/60 barrels mixed w/125 gallons Hyflo before frac. Flush w/11,500 gallons water. I.R. 81 B.P.M. Max pr. 1700#, ISIP None, avg. tr. pr. 1600#. Dropped 3 sets of 20 balls, 2 sets of 30 balls for 6 stages. C.O.T.D. 5494'.

8-23-58 This well was temporarily abandoned in the following manner:

1. Set cast iron retainer at 3190'.
2. Sq. perf. 5372-5486 w/100 sks. cement.
3. Capped well w/steel plate and 2" valve.