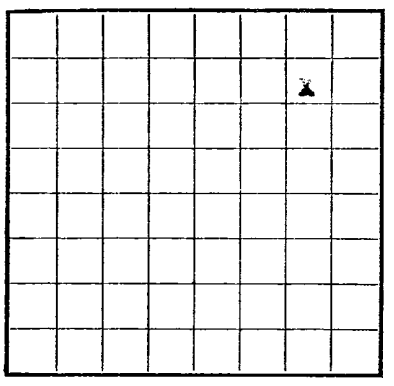
Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079366
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

RECEIVED SEP 9 1957 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 Rincon Unit Field So. Blanco Ext. & Blanco State New Mexico
Well No. 98(PM) Sec. 21 T. 27N R. 6W Meridian N.M.P.M. County Rio Arriba
Location 990 ft. {N. / S.} of N Line and 990 ft. {E. / W.} of E Line of Sec. 21 Elevation 6556'
(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 D. C. Johnston

Date September 17, 1957 Title Petroleum Engineer

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

Commenced drilling 7-5, 1957 Finished drilling 7-19, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3173 to 3248 (G) No. 4, from 5400 to 5570 (G)
No. 2, from 4890 to 4993 (G) No. 5, from to
No. 3, from 4993 to 5400 (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	F.E.	S.W.	161'	Howco				Surface
7 5/8	26.4	8 Rd.	J-55	3346'	Baker				Prod. Cag.
5 1/2	15.5	8 Rd.	J-55	2365'	Baker				Prod. Liner
2	4.7	8 Rd.	J-55	3225'					Prod. Tbg.
1 1/4	2.3	8 Rd.	Grade B	3209'					Siphon

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	173'	150	Circulated		
7 5/8"	3358'	250	Single Stage		
5 1/2"	3288-5653'	300	Single Stage		

FOLD | MARK

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size Baker EGJ Pkr. @ 3326'

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from 177 feet to 3360 feet, and from 3360 feet to 5655 feet
Cable tools were used from 0 feet to 177 feet, and from feet to feet

Gas Drilled

DATES

7-26, 1957 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. 4,144,000 M.V. 3,789,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 1071 (PC) = SICP A.O.F. = P.C. 4556 M.V. 5229 MCF/D
SITP - 1034# - MV

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2425	2425	Tan to gry cr-grn ss interbedded w/gry sh.
2425	2623	198	Ojo Alamo ss. White cr-grn s.
2623	2994	371	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2994	3173	179	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3173	3248	75	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3248	4890	1642	Lewis formation. Gry to white dense sh w/silty to to shaly ss breaks.
4890	4993	103	Cliff House ss. Gry, fine-grn, dense sil ss.
4993	5400	407	Menefee form. Gry, fine-grn s, carb sh & coal.
5400	5570	170	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5570	5655	85	Mancos formation. Gry carb sh.

[OVER]

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.

7-22-57 C.O.T.D 5600'. Perf w/2DJ/ft. Int. 5399-5420; 5426-44; 5460-72; 5484-94. Water frac. P.L. w/73,370 gal. water, 60,000# sand, flush w/10,000 gal. water. IR 42.8 BPM. BD 1900; tr. pr. 1500, 3100, & 2400. Max. tr. pr. 3300. Dropped 20 balls twice. Pressured to 3000#. Did not drop more balls.

7-22-57 B.P. @ 5250'. Perf. w/2DJ/ft. Int. 4891-4900; 4914-40; 4746-76; 4989-96; 5020-30; water frac. C.R. w/78,746 gal. water, 60,000# sand, flush w/10,000 gal. water. IR 60.5 BPM. BD 2100; tr. pr. 1700; max. tr. pr. 1800. Dropped 20 balls 7 times every 7500# sand. (6 stages)

7-22-57 BP @ 4700'. Perf. w/2DJ/ft. Int. 3176-3212; water frac. P.C. w/44,500 gal. water, 40,000# sand, flush w/7000 gal water. IR 58.0 BPM. BD 1800, tr. pr. 1500, max. tr. pr. 1650.