Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078738
LEASE OR PERMIT TO PROSPECT

RECEIVED JUL 5 1960

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. GEOLOGICAL SURVEY

X

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990 Farmington, New Mexico
Lessor or Tract San Juan 30-5 Unit Field Blanco State New Mexico
Well No. 31-27 Sec. 27 T. 30 N R. 5 W Meridian N.M.P.M. County Rio Arriba
Location 1840 ft. {N. / XXX} of S Line and 1090 ft. {E. / XXX} of W Line of Sec. 27 Elevation 6543' (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 B.H. MEANS
Date June 28 1960 Title Petroleum Engineer

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

Commenced drilling 5-2-, 1960 Finished drilling 5-17-, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3350 to 3605 (G) No. 4, from 5657 to 5865 (G)
No. 2, from 5353 to 5435 (G) No. 5, from to
No. 3, from 5435 to 5657 (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	P.E.	S.W.	162	Homco				surface
7 5/8"	26.4	8 Rd.	J-55	3645	Baker				Intermediate
5 1/2"	15.5	8 Rd.	J-55	2307	Baker				Prod liner
2"	4.7	8 Rd.	J-55	5836					Prod tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	173	225	circulated		
7 5/8"	3657	150	single stage		
5 1/2"	3575-5892	216	single stage		

FOLD | MARK

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 3660 feet, and from 3660 Gas Drilled feet to 5890 feet
Cable tools were used from feet to feet, and from feet to feet

DATES

5-22-60, 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 2,227,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 1185 A.O.F.- 2578 MCF/D

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2690	2690	Tan to gry cr-grn ss interbedded w/gry sh.
2690	2794	104	Ojo Alamo ss. White cr-grn s.
2794	3140	346	Kirtland form Gry sh interbedded w/tight gry fine-grn ss.
3140	3350	210	Fruitland form. Gry carb sh,scattered coals, coals and gry, tight, fine-grn ss.
3350	3605	255	Pictured Cliffs form Gry, fine-grn,tight, varicolored soft ss.
3605	5353	1748	Lewis form. Gry,fine-grn,dense sil ss.'
5353	5435	82	Cliff House ss. Gry, fine-grn,dense sil ss.
5435	5657	222	Menefee form. Gry,fine-grn s, carb sh & coal.
5657	5865	208	Point Lookout form. Gry,very fine sil ss w/frequent sh breaks.
5865	5890	25	Mancos formation Gry carb sh.

16—43094-4

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.

5584-5592-5598-5608;
5630-5644;5656-5690;
5726-5738;5742-5754;
5764-5778;5798-5806;5826-5832;

Water frac. P.L. w/79,464 gal. water & 45,000 # sand.
B.D.P. 1600 #, max. pr. 3400 # avg. tr.pr. 1922 #.
I.R. 66.6 B.P.M. Flush 9576 gal.

OIL
MAR 2
RECEIVED