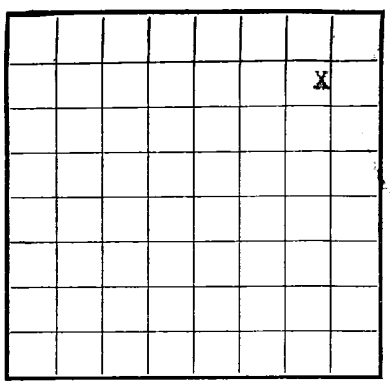
Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079363
LEASE OR PERMIT TO PROSPECT 14-08-001-1051



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
AUG 11 1958
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 28-6 Unit Field Blanco&Undesignated State New Mexico
Well No. 78 (PM) Sec. 1 T. 27N R. 6W Meridian N.M.P.M. County Rio Arriba
Location 990 ft. {N./S.} of N Line and 800 ft. {E./W.} of E Line of Section 1 Elevation 6505'
(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 August 8, 1958 Title Petroleum Engineer

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

Commenced drilling 2-21-, 1958 Finished drilling 3-7-, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3270 to 3362 (G) No. 4, from 5456 to 5606 (G)
No. 2, from 4954 to 5089 (G) No. 5, from ____ to ____
No. 3, from 5089 to 5456 (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.	161'	Howco				Surface
7 5/8"	26.40	8 Rd.	J-55	3446'	Baker				Prod. csg.
5 1/2"	15.5	8 Rd.	J-55	3289'	Baker				Prod. Liner
2"	4.7	8 Rd.	J-55	5680'					Prod. tbg.
1 1/4"	2.4	8 Rd.	Grade "A"	3310'					Siphon

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	180'	150	circulated		
7 5/8"	3458'	150	single stage		
5 1/2"	3399-5688'	300	single stage		

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____
Adapters—Material ____ Size Baker "EGJ" Pkr. @ 3453'

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 3460 feet, and from 3460 (Gas Drilled) feet to 5693 feet
Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

DATES

3-15-58, 1958 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 PC 3,541,000 MV 4,854,000 Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. P.C. 1120 M.V. 1108 A.O.F.= P.C. 3771 M.V. 8786 MCF/D

EMPLOYEES

____, Driller ____, Driller
____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2565	2565	Tan to gry cr-grn ss interbedded w/gry sh.
2565	2721	156	Ojo Alamo ss. White cr-grn s.
2721	3050	329	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3050	3270	220	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3270	3362	92	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3362	4954	1592	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4954	5089	135	Cliff House ss. Gry, fine-grn, dense sil ss.
5089	5456	367	Menefee form. Gry, fine-grn s, carb sh & coal.
5456	5606	150	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5606	5693	87	Mancos formation. Gry carb sh.

[OVER]

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.

3-11-58 C.O.T.D. 5645'. Perf. w/1 DJ/ft. int. 5322-44, 5360-80, 5400-26 5500-34, 2 DJ/ft. int. 5534-46, 5568-78, 1 DJ/ft. int. 5578-5610. Water frac. P.L. w/65,184 gal. water, 60,000# sand. Flush w/11,000 gal. water. I.R. 54 BPM. BDP None, trtg. 1400-2100#, max. pr. 2200#, 2 stages. Dropped 1 set of 20 balls.

3-11-58 B.P. @ 5200'. Perf. w/1 DJ/ft. int. 5050-5140. Water frac. C.H. w/54,000 gal. water, 50,000# sand. Flush w/10,000 gal. water. I.R. 58 B.P.M. B.D.P. 1800#, trtg. 1400-1600-1900#, max. pr. 1900#. 4 stages. Dropped 3 sets of 20 balls.

3-11-58 B.P. @ 5000'. Perf. w/2 DJ/ft. int. 3280-92, 3302-16. Water frac. P.L. w/32,690 gal. water and 30,000# sand. Flush w/19,000 gal. water. I.R. 47 B.P.M. B.D.P. 2600#, trtg. 1500-1700-2500#, max. pr. 2800#. 3 stages. Dropped 2 sets of 20 balls.