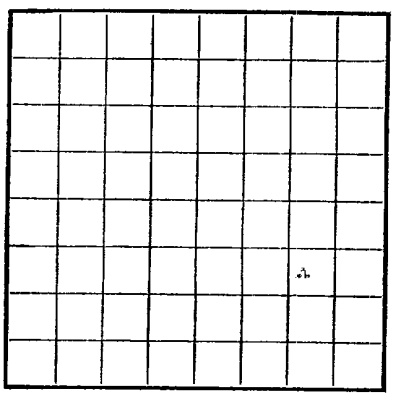
Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 000610
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED FEB 5 1957 U. S. GEOLOGICAL SURVEY FARMINGTON, NEW MEX.

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract Huerfano Unit Field W. Kutz Ext. State New Mexico
Well No. 75 Sec. 29 T. 27N R. 10W Meridian NMPM County San Juan
Location 1850 ft. {N.} of S Line and 650 ft. {W.} of E Line of Section 29 Elevation 6050'
(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 F. S. OBERLY
Date February 1, 1957 Title Petroleum Engineer

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

Commenced drilling 11-24-56, 19 Finished drilling 11-28-56, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1755 to 1835 (G) No. 4, from to
No. 2, from to No. 5, from
No. 3, from to No. 6, from

IMPORTANT WATER SANDS

No. 1, from to No. 3, from
No. 2, from to No. 4, from

RECEIVED FEB 6 1957 OIL CON. COM. DIST. 3

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforations From—	Perforations To—	Purpose
8 5/8"	28.50#	8 RD	J-55	125'	Baker				Surface
5 1/2"	15.50	8 RD	J-55	1832'	Baker				Production
1 1/2"	2.9	NU	J-55	1734'					Tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	137'	100	Circulated		
5 1/2"	1832'	150	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 1835 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

12-7-56, 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 110,000 A.O.F. 113,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 443

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	690	690	Tan to gry cr-grn ss interbedded w/gry sh.
690	850	160	Ojo Alamo ss. White cr-grn s.
850	1471	621	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
1471	1755	284	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
1755	1835	80	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.

FROM— TO— TOTAL FEET FORMATION

[OVER]

16—43094-4

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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.

[illegible] T.D. [illegible] . C. T.D. [illegible] . Water fractured Pictured Cliffs perf. Int. 1748-1764 with 28,000 gallons water & 25,000 sand. [illegible] maximum pressure 2550, average treating pressure [illegible], injection rate [illegible] Flush 2000 gals.

Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool: West Kutz Formation: Pictured Cliff County: San Juan

Purchasing Pipeline: El Paso Natural Gas Date Test Filed: _____

Operator: El Paso Natural Gas Lease: Huerfano Well No.: 75

Unit: I Sec.: 29 Twp.: 27 Rge.: 10 Pay Zone: From: 1748 To: 1764

Casing: OD 5-1/2 WT. 15.5 Set At 1332 Tubing: OD 1-1/2 WT. 2.3 T. Perf. 1719

Produced Through: Casing _____ Tubing _____ Gas Gravity: Measured _____ Estimated _____

Date of Flow Test: From _____ To _____ * Date S.I.P. Measured _____

Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia			(a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia			(b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia			(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:			
Normal chart reading _____ psig + 12 = _____ psia			(d)
Square root chart reading (_____)^2 x spring constant _____ = _____ psia			(d)
Meter error (c) - (d) or (d) - (c)	±	= _____ psi	(e)
Friction loss, Flowing column to meter:			
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		= _____ psi	(f)
Seven day average static meter pressure (from meter chart):			
Normal chart average reading _____ psig + 12 = _____ psia			(g)
Square root chart average reading (_____)^2 x sp. const. _____ = _____ psia			(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		= _____ psia	(h)
P_t = (h) + (f)		= _____ psia	(i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia			(j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia			(k)
P_c = (j) or (k) whichever well flowed through		= _____ psia	(l)
Flowing Temp. (Meter Run)	_____ °F + 460	= _____ °Abs	(m)
$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l)		= _____ psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\_\_\_\_\_} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_\_ = \_\_\_\_ \right)^{*} = \_\_\_\_\_ \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \_\_\_\_ \left[\left\{ \begin{matrix} P_c^2 - P_d^2 = \\ P_c^2 - P_w^2 = \end{matrix} \right\} \_\_\_\_ \right]^n \_\_\_\_ = \_\_\_\_ \text{MCF/da.}$$

SUMMARY

P_c = _____ psia
Q = _____ Mcf/day
P_w = _____ psia
P_d = _____ psia
D = _____ Mcf/day

Company: El Paso Natural Gas
By: Original Signed
Title: Lewis D. Galloway
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w

Chart zero to date - October 9, 1957.

RECEIVED NOV 7 1957 OIL CON. COM. DIST. 3

Oil