

Santa Fe

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Co Address Warrington, New Mexico
 Lease or Tract Pubco Development, Inc. Field Blanco State New Mexico
 Well No. 11 Sec. 2 T. 27N R. 6E Meridian N.M.P.M. County Rio Arriba
 Location 340 ft. S. of N Line and 1100 ft. W. of E Line of Section 4 Elevation 6272

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 E. J. Coel

Date **December 1, 1951**

Title

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

Commenced drilling September 12, 1954 Finished drilling October 3, 1954

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from (G) 1430 to 5295

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

No. 5, 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

[illegible]

MUDDING AND CEMENTING RECORD

	Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
MARK 107	3A	217.66	300	double plug		
		4639.00	eq. cv 100	double plug		

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
Hand-ill frac details on reverse side						

TOOLS USED

Rotary tools were used from ~~surface~~ feet to 5363 feet, and from _____ feet to _____ feet.

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

Completion date: October 5, 1954

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 175747 Gallons gasoline per 1,000 cu. ft. of gas _____

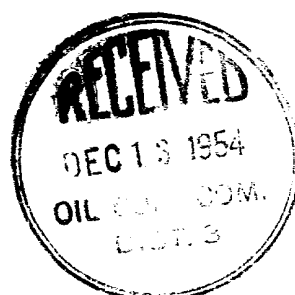
Rock pressure, lbs. per sq. in. -- 1057

EMPLOYEES

~~R. E. Wilkins, usher~~, Driller ~~J. W. Grosz~~
~~John Brown~~, Driller ~~R. E. Dodson~~, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	2372	2372	Tertiary
2372	2608	326	Kirtland
2608	2980	282	Fruitland
2980	3100	120	Pictured Cliffs
3100	4570	1470	Lewis
4570	4746	178	Cliff House
4746	5156	408	Mensfee
5156	5293	142	Point Lookout
5293	5363	65	Mancos



FORMATION RECORD—Continued[illegible]

HISTORY OF OIL OR GAS WELL

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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.

Sand-oli Price:

Date Treated:	3-29-54	10-5-54
Depth Treated:	4475-4753	5115-5363
Way Formation:	Cliff House	Point Lookout
Treating Fluids:	5520 gals 20	12,217 gals 20
Pounds Sand:	24000	39000
Flush:	1260 gals	2940 gals 20
Pressures:		
Breakdown:	1500	500
Drifting:	1500-4000	1500
Final:	1500	1150
Treating Time:	31 min	22 min
Injection Rate:	1.25 bbls/min	10.2 bbls/min

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 Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Company Lease San Juan 28-6 Unit Well No. 11
Unit A Sec. 9 Twp. 27 Rge. 6 Pay Zone: From 4570 To 5298
Casing: OD 7 WT. 20 Set At 4630 Tubing: OD 2 WT. 4.7 T. Perf. 5292
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .700
Date of Flow Test: From 10/9/56 To 10/17/56 * 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 (7.25)² x sp. const. 10 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 989 psig + 12 = 1001 psia (j)
Wellhead tubing shut-in pressure (Dwt) 978 psig + 12 = 990 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 990 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 505 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 495 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{230} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 230 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0466}{1.0348} = \text{238} \text{ MCF/da.}$
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{735,075}{702,321}$

SUMMARY

P_c = 990 psia
Q = 230 Mcf/day
P_w = 527 psia
P_d = 495 psia
D = 238 Mcf/day

Company El Paso Natural Gas Company
By J. J. Galloway
Title _____
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3704	.236	4.674	1103	276,676	277,779	527

B @ 500 = 234



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