

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 Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-7 Well No. 54
Unit N Sec. 22 Twp. 28 Rge. 7 Pay Zone: From 5080 To 5740
Casing: OD 5-1/2 WT. 15.5 Set At 5940 Tubing: OD 2" WT. 4.7 T. Perf. 5801
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 666 Estimated _____
Date of Flow Test: From 7/22 To 7/30/58 * Date S.I.P. Measured 4/24/57
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 (7.00) ² x sp. const. 10 = _____ 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) 835 psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{505} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION
D = Q 505 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{537,633}{471,786} \right]^n \frac{1.1395}{1.1029} = \underline{557} \text{ MCF/da.}$

SUMMARY

P _c =	<u>847</u>	psia	Company	<u>El Paso Natural Gas</u>
Q =	<u>505</u>	Mcf/day	By	<u>Original Signed</u>
P _w =	<u>496</u>	psia	Title	<u>Harold L. Kendrick</u>
P _d =	<u>424</u>	psia	Witnessed by	
D =	<u>557</u>	Mcf/day	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
<u>3863</u>	<u>.245</u>	<u>22.544</u>	<u>5,523</u>	<u>240,100</u>	<u>245,623</u>	<u>496</u>

Previous test was not representative because well was logged off.

D at 500 = 487



EL PASO NATURAL GAS COMPANY

P. O. Box 997
Farmington, N.M.

August 11, 1958

Mr. E. C. Arnold
Oil Conservation Commission
1000 Rio Brazos Road
Aztec, New Mexico

Re: El Paso Natural Gas Company Well
San Juan 28-7 Unit 54, N 22-28-7,
Rio Arriba, New Mexico.

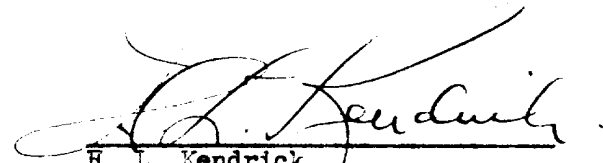
Dear Mr. Arnold:

Attached hereto please find initial production test for the above captioned well which should be used instead of the test as previously filed.

The test showing flow dates of 12/31/57 to 1/8/58 shows an average daily volume of 243 MCF/D which we now know to be a lower volume than what the well is actually capable of producing. This test currently being submitted is calculated with an average daily volume of 505 MCF/D indicating the present producing ability to be more than twice the rate shown on the earlier test.

We ask that the attached test be used in calculating future allowables for this well.

Very truly yours,


H. L. Kendrick
Gas Engineer

HLK/nb

cc: E. C. Arnold
R. E. Houser
Proration Dept., El Paso
File

