

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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

Operator El Paso Natural Gas Lease Ripley Well No. 3
Unit A Sec. 24 Twp. 27N Rge. 7W Pay Zone: From 5304 To 5516
Casing: OD 5-1/2 WT. 13.5 Set At 5300 Tubing: OD 2 WT. 4.7 T. Perf. 5501
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .705 Estimated _____
Date of Flow Test: From 10/8/57 To 10/16/57 * Date S.I.P. Measured 5/20/57 (10 days)
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 (7.35) ² x sp. const. 10 _____ = 616 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 616 psia (h)
P_t = (h) + (f) _____ = 616 psia (i)
Wellhead casing shut-in pressure (Dwt) 1121 psig + 12 = 1133 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1104 psig + 12 = 1116 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1116 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 _____ = 518 °Abs. (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 558 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\int_{P_d}^{P_c} \frac{dP}{F(P)} \times \left(\frac{\sqrt{P_c} - \sqrt{P_d}}{\sqrt{P_c} - \sqrt{P_w}} \right) = \frac{378}{1} \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/n} - 1}{\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}} = \frac{378}{1.0615} = 401 \text{ MCF/day}$$

SUMMARY

P_c = 1116 psia
Q = 378 Mcf/day
P_w = 619 psia
P_d = 558 psia
D = 401 Mcf/day

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

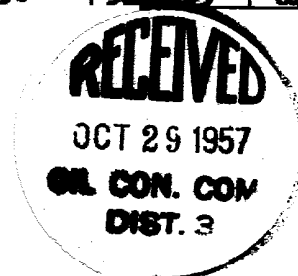
- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3878</u>	<u>.246</u>	<u>12631</u>	<u>3107</u>		<u>379.456</u>	<u>382.463</u>	<u>619</u>

B at 500 = 416

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