

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

Operator El Paso Natural Gas Lease San Juan 28-5 Well No. 13
Unit 11 Sec. 9 Twp. 28N Rge. 5W Pay Zone: From 5302 To 5374
Casing: OD 5 1/2 WT. 15.5 Set At 5837 Tubing: OD 2 WT. 4.7 T. Perf. 5730
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .680 Estimated _____
Date of Flow Test: From 4/9 To 4/17/57 * Date S.I.P. Measured 9/11/56
Meter Run Size 4 Orifice Size 1.250 Type Chart Sq. Rt. Type Taps Flange

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 (7.65)² x sp. const. 1000 = 585 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 585 psia (h)
P_t = (h) + (f) _____ = 585 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 1044 psig + 12 = 1056 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 1040 psig + 12 = 1052 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1052 psia (l)
Flowing Temp. (Meter Run) _____ 70 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 526 psia (n)

FLOW RATE CALCULATION

Q = 649 (integrated) X $\left(\frac{\sqrt{(c)} - \sqrt{(d)}}{\sqrt{(d)}} \right)^2 =$ _____ MCF/da

DELIVERABILITY CALCULATION

D = Q 649 $\left[\frac{(P_c^2 - P_d^2) - 830,028}{(P_c^2 - P_w^2) - 755,282} \right]^n = \frac{1.0989}{1.0734} =$ 697 MCF/da.

SUMMARY

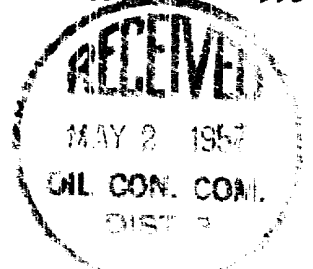
P _c =	<u>1052</u>	psia	Company	<u>El Paso Natural Gas Company</u>
Q =	<u>649</u>	Mcf/day	By	<u>Original Signed</u>
P _w =	<u>593</u>	psia	Title	<u>Lewis D. Galloway</u>
P _d =	<u>526</u>	psia	Witnessed by	<u>Lewis D. Galloway</u>
D =	<u>697</u>	Mcf/day	Company	_____

- * 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>3396</u>	<u>.247</u>	<u>37.234</u>	<u>9,197</u>	<u>342,225</u>	<u>351,422</u>	<u>593</u>

D @ 500 = 695



OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Permitted 3

DISTRIBUTION

	NO.	DATE
Operator		
Santa Fe		
Producers Office		
State Land Office		
U. S. G. S.		
Transporter		
File		<input checked="" type="checkbox"/>