

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 Kilmer Formation Mesa Verde County Elizabethton
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Co. Lease San Juan 28-5 Well No. 9
Unit K Sec. 29 Twp. 28 Rge. 5 Pay Zone: From 5084 To 5730
Casing: OD 7 WT. 20 & 23 Set At 5030 Tubing: OD 2 WT. 4.7 T. Perf. 5670
Produced Through: Casing _____ Tubing I Gas Gravity: Measured _____ Estimated .605
Date of Flow Test: From 3/8/ To 3/16 * Date S.I.P. Measured 7/20/55
Meter Run Size 4 Orifice Size _____ Type Chart 84, R.L. 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (8.0) ² x sp. const. 20 = _____ 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) 1077 psig + 12 = 1089 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1074 psig + 12 = 1086 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{V(c)}{V(d)} \right) = \underline{631}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 631 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{706}$ MCF/day
 $\frac{1.1621}{1.1192}$

SUMMARY

P_c = 1086 psia
Q = 631 Mcf/day
P_w = 4.7 psia
P_d = 54.3 psia
D = 706 Mcf/day

Company El Paso Natural Gas Company
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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3084</u>	<u>.246</u>	<u>35.200</u>	<u>8659</u>	<u>409,400</u>	<u>418,259</u>	<u>4.7</u>

D @ 500 = 720



OIL CONSERVATION COMMISSION		
ATKINS DISTRICT OFFICE		
No. Copy		3
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	