

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 Flamingo Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 32-9 Well No. 25
Unit 6 Sec. NE2 Twp. 31N Rge. 10W Pay Zone: From 5016 To 5530
Casing: OD 5 1/2 WT. 15.50 Set At 5590 Tubing: OD 2 WT. 4.7 T. Perf. 5446
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 6/22 To 6/30 * Date S.I.P. Measured 1/19/56
Meter Run Size 4 Orifice Size _____ 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 (7.55) ² x sp. const. 10 _____ = 570 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 570 psia (h)
P_t = (h) + (f) _____ = 570 psia (i)
Wellhead casing shut-in pressure (Dwt) 1022 psig + 12 = 1022 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1021 psig + 12 = 1021 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1021 psia (l)
Flowing Temp. (Meter Run) 92 °F + 460 _____ = 532 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 512 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{2110}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 2110 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{2253}$ MCF/da.
 $\left[\frac{786,432}{720,604} \right]^n$ $\frac{1.0913}{1.0676}$

SUMMARY

P_c = 1021 psia
Q = 2110 Mcf/day
P_w = 573 psia
P_d = 512 psia
D = 2253 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 R ²	(1-e ^{-S}) P _t ² (Column i)	P _t ² + R ²	P _w
<u>3758</u>	<u>.239</u>	<u>12.052</u>	<u>3.072</u>	<u>324,900</u>	<u>327,972</u>	<u>573</u>

D = 500 = 22.6

Q K



1000

1000

1000

1000

1000

1000

1000

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received <u>3</u>		
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	<u>1</u>	
Proration Office		
State Land Office		
U. S. G. S.	<u>1</u>	
Transporter		
File	<u>1</u>	<input checked="" type="checkbox"/>

