

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 28-5 Well No. No. 18
Unit M Sec. 11 Twp. 28 Rge. 5 Pay Zone: From 5768 To 6242
Casing: OD 5-1/2 WT. 15.5 Set At 6326 Tubing: OD 2 WT. 4.7 T. Perf. 6189
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .674 Estimated _____
Date of Flow Test: From 2-21-58 To 3-1-58 * Date S.I.P. Measured 9-17-57 (54 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 (7.80) ² x sp. const. 10 = 608 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 608 psia (h)
P_t = (h) + (f) = 608 psia (i)
Wellhead casing shut-in pressure (Dwt) 1118 psig + 12 = 1130 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1120 psig + 12 = 1132 psia (k)
P_c = (j) or (k) whichever well flowed through = 1132 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 = 527 °Abs (m)
P_d = ½ P_c = ½ (l) = 566 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{277} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 277 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(1.0561)^{.75}}{(1.0418)} = \text{289} \text{ MCF/da.}$

SUMMARY

P_c = 1132 psia
Q = 277 Mcf/day
P_w = 610 psia
P_d = 566 psia
D = 289 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	$\frac{(F_c Q)^2 (1-e^{-s})}{R^2}$	P _t ² (Column i)	P _t ² + R ²	P _w
4171	.262	6.781	1.777	369.664	371.441	610

D at 500 = 301

OK



OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Recd.	3	
DISTRIBUTION		
Director		
Asst. Dir.	1	
Production Office		
Public Affairs Office		
Records	1	
Transporter	1	
File		✓