

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 Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease McCulley Well No. 2-A
Unit M Sec. 12 Twp. 30 Rge. 7 Pay Zone: From 5167 To 5690
Casing: OD 5½ WT. 15.5 Set At 5694 Tubing: OD 2 WT. 4.7 T. Perf. 5614
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .645
Date of Flow Test: From 12/8 To 12/16 * Date S.I.P. Measured 9/14/55
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 (7.20)² x sp. const. 10 = 518 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 518 psia (h)
P_t = (h) + (f) = 518 psia (i)
Wellhead casing shut-in pressure (Dwt) 1100 psig + 12 = 1112 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1100 psig + 12 = 1112 psia (k)
P_c = (j) or (k) whichever well flowed through = 1112 psia (l)
Flowing Temp. (Meter Run) 77 °F + 460 = 537 °Abs (m)
P_d = ½ P_c = ½ (l) = 556 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ } }{\sqrt{(d)}} = \text{ } \right)^* = \underline{1966} MCF/da
(integrated)$

DELIVERABILITY CALCULATION
D = Q 1966 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{927,408}{888,955} \right]^n \frac{1.0433}{1.0323} = \underline{2030} MCF/da.$

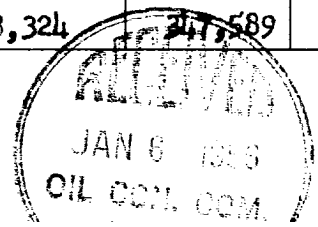
SUMMARY
P_c = 1112 psia
Q = 1966 Mcf/day
P_w = 590 psia
P_d = 556 psia
D = 2030 Mcf/day
Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
Witnessed by _____
Company _____

* 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
3621	.232	341.658	79,265	268,324	347,589	590

D @ 500 = 1975



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>	