

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

Operator El Paso Natural Gas Co. Lease San Juan 28-6 Well No. 41
Unit A Sec. 34 Twp. 28N Rge. 6W Pay Zone: From 5016 To 5185
Casing: OD 5 1/2 WT. 15.5 Set At 5710 Tubing: OD 2 WT. 4.7 T. Perf. 5094
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .720
Date of Flow Test: From 2/29 To 3/8 * Date S.I.P. Measured 12/20/55
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 (8.00) ² x sp. const. 1000 _____ = 640 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 640 psia (h)
P_t = (h) + (f) _____ = 640 psia (i)
Wellhead casing shut-in pressure (Dwt) 1041 psig + 12 = 1053 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1035 psig + 12 = 1047 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1047 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 524 psia (n)

FLOW RATE CALCULATION

Q = 718 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 718 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n =$ 832 MCF/da.
 $\frac{821,613}{675,013}$ ⁿ $\frac{1.2172}{1.1588}$

SUMMARY

P_c = 1047 psia
Q = 718 Mcf/day
P_w = 649 psia
P_d = 524 psia
D = 832 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})	(FcQ) ²	(FcQ) ² R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>4030</u>	<u>.254</u>	<u>45,576</u>	<u>11,576</u>	<u>.600</u>	<u>421,176</u>	<u>421,176</u>	<u>649</u>

D @ 500 = 831



OIL CONSERVATION COMMISSION		
ACTING DISTRICT OFFICE		
Case No.	3	
Date		
By		
For		
Approved	1	
Disapproved		
Relinquished	1	
Respectfully	1	✓
File		