

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 East Blanco Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease San Juan 32-4 Well No. 9
Unit H Sec. 16 Twp. 36N Rge. 4W Pay Zone: From 4251 To 4660
Casing: OD 7 WT. 20 Set At 4251 Tubing: OD 1 1/4 WT. 2.4 T. Perf. 4416
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .605 Estimated _____
Date of Flow Test: From 23 May To 31 May * Date S.I.P. Measured 7-21-55
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Root 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 (7.40)² x sp. const. 1000 = 548 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 548 psia (h)
P_t = (h) + (f) = 548 psia (i)
Wellhead casing shut-in pressure (Dwt) 1250 psig + 12 = 1262 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1250 psig + 12 = 1262 psia (k)
P_c = (j) or (k) whichever well flowed through = 1262 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 631 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{149}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^* = \quad \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{149}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/n}} = \frac{149}{\left[\frac{1,194,483}{1,889,939} \right]^{1/0.9867}} = \frac{149}{0.9867} \text{ MCF/da.}$$

SUMMARY

P_c = 1262 psia
Q = 149 Mcf/day
P_w = 550 psia
P_d = 631 psia
D = 149 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>2672</u>	<u>.177</u>	<u>13.474</u>	<u>2,381</u>	<u>300,394</u>	<u>300,394</u>	<u>550</u>

D 6 250 F 171



