

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 South Blanco Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Schwerdtfeger Well No. 4-A
Unit 0 Sec. 6 Twp. 27N Rge. 8W Pay Zone: From 2895 To 2950
Casing: OD. 7 WT. 20 Set At 2896 Tubing: OD. 2 WT. 4.7 T. Perf. 2924
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 1/8/56 To 1/16/56 * Date S.I.P. Measured 10/31/55
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 (7.10)² x sp. const. 5 _____ = 252 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 252 psia (h)
P_t = (h) + (f) _____ = 252 psia (i)
Wellhead casing shut-in pressure (Dwt) 832 psig + 12 = 844 psia (j)
Wellhead tubing shut-in pressure (Dwt) 832 psig + 12 = 844 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 844 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 _____ = 514 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 422 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right) = \text{_____ } 670 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ } 670 \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{534,252}{643,714} \right]^n \frac{.8300}{.8537} = \text{_____ } 572 \text{ MCF/da.}$$

SUMMARY

P_c = 844 psia
Q = 670 Mcf/day
P_w = 262 psia
P_d = 422 psia
D = 572 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 f)	P _t ² + R ²	P _w
1901	129	39.677	5.118	63,504	68,622	262

$$D @ 250 = 666$$

