

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 Wildcat Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Johnston State Well No. 1
Unit N Sec. 32 Twp. 26 Rge. 6 Pay Zone: From 2864 To 2871
Casing: OD 7 WT. 20 Set At 2864 Tubing: OD 1 WT. 1.68 T. Perf. 2876
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .660 Estimated _____
Date of Flow Test: From 8/23 To 8/31/56 * Date S.I.P. Measured 11/29/55
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 (7.05)² x sp. const. 5 = 249 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 249 psia (h)
P_t = (h) + (f) = 249 psia (i)
Wellhead casing shut-in pressure (Dwt) 853 psig + 12 = 865 psia (j)
Wellhead tubing shut-in pressure (Dwt) 853 psig + 12 = 865 psia (k)
P_c = (j) or (k) whichever well flowed through = 865 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 = _____ ° Abs (m)
P_d = ½ P_c = ½ (l) = 433 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{534} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION
D = Q 534 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{560,736}{686,224} \right]^n \cdot \frac{.8171}{.8423} = \text{450} \text{ MCF/da.}$

SUMMARY
P_c = 865 psia
Q = 534 Mcf/day
P_w = 249 psia
P_d = 433 psia
D = 450 Mcf/day
Company El Paso Natural Gas Company
By L. D. Halfway by Tom Grant
Title Senior Gas Eng.
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
			FRICTION NEGLIGIBLE			

D @ 250 = 530

OK



