

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 Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Stull Pool Unit Well No. 1
Unit 1 Sec. 10 Twp. 32 Rge. 10 Pay Zone: From 5090 To 5170
Casing: OD 5 1/2 WT. 15.5 Set At 5480 Tubing: OD 2 WT. 4.7 T. Perf. 5290
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .80 Estimated _____
Date of Flow Test: From 8/23 To 8/31 * Date S.I.P. Measured 8/9/56
Meter Run Size 4 Orifice Size _____ Type Chart SG, 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: _____ = _____ 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 (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (g) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 1003 psig + 12 = 1015 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1003 psig + 12 = 1015 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 90 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\text{(integrated)}}{\text{(integrated)}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{984}{1} \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{264}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{264}{\left[\frac{772,161}{744,811} \right]^{1.0375}} = 1012 \text{ MCF/day}$$

SUMMARY

P_c = 1015 psia
Q = 984 Mcf/day
P_w = 535 psia
P_d = 508 psia
D = 1012 Mcf/day

Company El Paso Natural Gas
By J. D. Holloway 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column f)		
3227	.209	25,400	17,390	261,321	284,211	535

D = 500 = 990



