

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 Date Test Filed _____

Operator El Paso Natural Gas Lease Bolack Well No. 9-C (M)

Unit H Sec. 31 Twp. 27 Rge. 8 Pay Zone: From 4330 To 4420

Casing: OD 5-1/2 WT. 15.5 Set At 4693 Tubing: OD 2 WT. 4.7 T. Perf. 4353

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .711 Estimated _____

Date of Flow Test: From 1/8/58 To 1/16/58 * Date S.I.P. Measured 9/6/57 (9 days)

Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

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 (5.90) ² x sp. const. 15 _____ = 522 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 522 psia (h)

P_t = (h) + (f) _____ = 522 psia (i)

Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)

Wellhead tubing shut-in pressure (Dwt) 1068 psig + 12 = 1080 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 1080 psia (l)

Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °Abs (m)

P_d = ½ P_c = ½ (l) _____ = 540 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \frac{690}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{690}{\left[\frac{1080^2 - 540^2}{1080^2 - 530^2} \right]^{.9880}} = \frac{690}{.9910} = \text{_____} \text{ MCF/day}$$

SUMMARY

P_c = 1080 psia
Q = 690 Mcf/day
P_w = 530 psia
P_d = 540 psia
D = 684 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title _____
Witnessed by Lewis D. Galloway
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3095</u>	<u>.202</u>	<u>42.081</u>	<u>8.500</u>		<u>272.484</u>	<u>278.984</u>	<u>530</u>

D at 500 = 696



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