

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 Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 28-6 Well No. 51
Unit K Sec. 29 Twp. 28 Rge. 6 Pay Zone: From 4906 To 5560
Casing: OD 5-1/2" WT. 14 Set At 5639 Tubing: OD 2" WT. 4.7 T. Perf. 5504
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 2-21-58 To 3-1-58 * Date S.I.P. Measured 3-29-57
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 (6.45) ² x sp. const. 15 _____ = 624 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 624 psia (h)
P_t = (h) + (f) _____ = 624 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 1099 psig + 12 = 1111 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 1087 psig + 12 = 1099 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1099 psia (l)
Flowing Temp. (Meter Run) _____ 57 °F + 460 _____ = 517 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 550 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\text{(integrated)}}{\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^*} = \text{731 MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 731 } \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(1.1217)^{.73}}{(1.0897)} = \text{797 MCF/da.}$$

SUMMARY

P_c = 1099 psia Company El Paso Natural Gas
Q = 731 Mcf/day By Original Signed
P_w = 633 psia Title Lewis D. Galloway
P_d = 550 psia Witnessed by _____
D = 797 Mcf/day Company _____

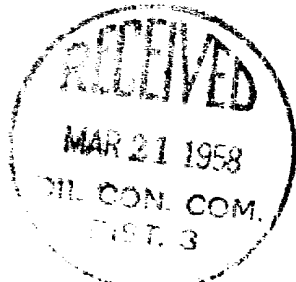
* This is date of completion test.
* Meter error correction factor

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
3798	.241	47.238	11.384	389.376	400.760	633

D at 500 = 815

OK



OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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