

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 Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 28-7 Well No. 54
Unit N Sec. 22 Twp. 28 Rge. 7 Pay Zone: From 5080 To 5740
Casing: OD 5-1/2 WT. 15.5 Set At 5940 Tubing: OD 2 WT. 4.7 T. Perf. 5801
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .695 Estimated _____
Date of Flow Test: From 12-31-57 To 1-8-58 * Date S.I.P. Measured 4-24-57
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 (7.65) ² x sp. const. 10 = 585 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 585 psia (h)
P_t = (h) + (f) = 585 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 835 psig + 12 = 847 psia (k)
P_c = (j) or (k) whichever well flowed through = 847 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 = 527 °Abs (m)
P_d = ½ P_c = ½ (l) = 424 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{248} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 248 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{537,633}{373,803} \right]^n \frac{1.4382}{1.3132} = \text{326} \text{ MCF/da.}$

SUMMARY

P _c =	<u>847</u>	psia	Company	<u>El Paso Natural Gas</u>
Q =	<u>248</u>	Mcf/day	By	_____
P _w =	<u>586</u>	psia	Title	<u>Original Signed</u>
P _d =	<u>424</u>	psia	Witnessed by	<u>Lewis D. Galloway</u>
D =	<u>326</u>	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	$\frac{(F_c Q)^2 (1-e^{-S})}{R^2}$	P _t ² (Column i)	P _t ² + R ²	P _w
4032	.254	5.438	1,381	342,225	343,606	586

D at 500 = 287

PISTON INSTALLED

