

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 Company Lease San Juan 29-7 Well No. 57
Unit L Sec. 11 Twp. 29 Rge. 7 Pay Zone: From 4874 To 5454
Casing: OD 5-1/2 WT. 14 Set At 5515 Tubing: OD 2 WT. 4.7 T. Perf. 5568
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____
Date of Flow Test: From 072357 To 080157 * Date S.I.P. Measured 3-8-57
Meter Run Size _____ Orifice Size 1.750 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 (7.25) ² x sp. const. 1000 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 1109 psig + 12 = 1121 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1100 psig + 12 = 1112 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1112 psia (l)
Flowing Temp. (Meter Run) 83 °F + 460 _____ = 543 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 556 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^{.}$ = 1715 MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1715 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n$ $\frac{1.0330}{1.0246} =$ 1757 MCF/da.

SUMMARY

P_c = 1112 psia Company EL PASO NATURAL GAS COMPANY
Q = 1715 Mcf/day By Original Signed
P_w = 582 psia Title L. D. Galloway, Sr., Gas Engineer
P_d = 556 psia Witnessed by Lewis D. Galloway
D = 1757 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3758</u>	<u>.239</u>	<u>259,985</u>	<u>62,136</u>		<u>276,676</u>	<u>338,812</u>	<u>582</u>

D at 500 = 1734

