

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 Elance Mesa Verde Formation Mesa Verde County Elizabethtown
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease San Juan 27-5 Well No. 9
Unit 6 Sec. 22 Twp. 27N Rge. 2E Pay Zone: From 5013 To 5600
Casing: OD 54 WT. 15.5 Set At 5013 Tubing: OD 2 WT. 4.7 T. Perf. 5045
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .705 Estimated _____
Date of Flow Test: From 6/2 To 6/8 * Date S.I.P. Measured 1/7/56
Meter Run Size 4 Orifice Size _____ Type Chart M. R. 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:
(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 (7.3) ² x sp. const. 1000 = 531 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 531 psia (h)
P_t = (h) + (f) _____ = 531 psia (i)
Wellhead casing shut-in pressure (Dwt) 1060 psig + 12 = 1060 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1048 psig + 12 = 1048 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1048 psia (l)
Flowing Temp. (Meter Run) 85 °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 530 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{101} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 101 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{101} \text{ MCF/day}$
642,700 1.0018
839,511 1.0008

SUMMARY

P_c = 1060 ✓ psia
Q = 101 ✓ Mcf/day
P_w = 531 ✓ psia
P_d = 530 ✓ psia
D = 101 ✓ Mcf/day

Company El Paso Natural Gas Company
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	(1-e ^{-s})	P _t ²	P _t ² + R ²	P _w
				R ²			

D @ 500 = 103

OK

