

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 Unit 30-6 Well No. 9
Unit A Sec. 30 Twp. 30N Rge. 7W Pay Zone: From 5308 To 5404
Casing: OD 5 1/2 WT. 14 Set At 5457 Tubing: OD 2 WT. 4.7 T. Perf. 5340
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 2/8 To 2/17/57 * Date S.I.P. Measured 11/24/55
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 (7.45)² x sp. const. 10 = 555 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 555 psia (h)
P_t = (h) + (f) = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) 1040 psig + 12 = 1052 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1006 psig + 12 = 1018 psia (k)
P_c = (j) or (k) whichever well flowed through = 1018 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 509 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1377} \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{1377} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{1507} \text{ MCF/day}$$

$\frac{777,243}{689,075}$ $\frac{1.1279}{1.0944}$

SUMMARY

P_c = 1018 psia
Q = 1377 Mcf/day
P_w = 589 psia
P_d = 509 psia
D = 1507 Mcf/day

Company El Paso Natural Gas Company
By _____ Original Signed
Title _____
Witnessed by Lewis D. Galloway
Company _____

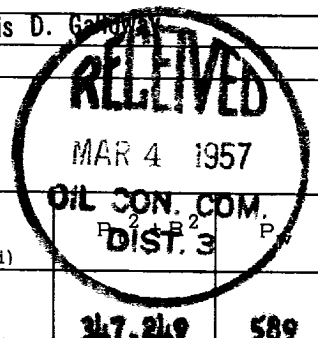
* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _t ²	P ₂ ² + B ₂ ² P ₁ ²
			R ²	(Column 1)	
<u>3658</u>	<u>.234</u>	<u>167.625</u>	<u>39,224</u>	<u>308,025</u>	<u>347,249</u> <u>589</u>

D @ 500 = 1441

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