

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 San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Storey Well No. 8-C (M)

Unit K Sec. 33 Twp. 28 Rge. 9 Pay Zone: From 5416 To 5496

Casing: OD 5-1/2 WT. 15.5 Set At 5645 Tubing: OD 2 WT. 4.7 T. Perf. 5474

Produced Through: Casing _____ Tubing K Gas Gravity: Measured .730 Estimated _____

Date of Flow Test: From 8/8 To 8/16/57 * Date S.I.P. Measured 5/29/57 (32 days)

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) 1032 psig + 12 = 1044 psia (k)
 P_c = (j) or (k) whichever well flowed through = 1044 psia (l)
 Flowing Temp. (Meter Run) 72 °F + 460 = 532 °Abs (m)
 P_d = 1/2 P_c = 1/2 (l) = 522 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \underline{1336}$ MCF/day
 (Integrated)

DELIVERABILITY CALCULATION

D = Q 1336 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{817,452}{707,951}^n \frac{1.1546}{1.1139} = \underline{1488}$ MCF/day

SUMMARY

P_c = 1044 psia Company El Paso Natural Gas
 Q = 1336 Mcf/day By Original Signed
 P_w = 618 psia Title _____
 P_d = 522 psia Witnessed by Lewis D. Galloway
 D = 1488 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 1)	P _t ² + R ²	P _w
<u>3996</u>	<u>.252</u>	<u>157.779</u>	<u>39,760</u>	<u>342,225</u>	<u>381,985</u>	<u>618</u>

D at 500 = 1442

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