

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)

72-189

Pool South Mianee Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Belack Well No. 12-C (P)
Unit A Sec. 29 Twp. 27 Rge. 8 Pay Zone: From 2284 To 2306
Casing: OD 7-5/8 WT. 2614 Set At 4435 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2272
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 8/30/58 To 9/7/58 * Date S.I.P. Measured 5/15/58
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: _____ = _____ psi (f)
(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 (6.95) ² x sp. const. 5 = 242 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 242 psia (h)
P_t = (h) + (f) _____ = 242 psia (i)
Wellhead casing shut-in pressure (Dwt) 840 psig + 12 = 852 psia (j)
Wellhead tubing shut-in pressure (Dwt) 843 psig + 12 = 855 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 855 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 428 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\int_{P_c}^{P_d} \frac{dP}{P^2}}{\left(\frac{V(c)}{V(d)} \right)^2} = \frac{434}{1} = 434 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 434 \left[\frac{855^2 - 428^2}{855^2 - 265^2} \right]^n = 370 \text{ MCF/da.}$$

SUMMARY

P_c = 855 psia
Q = 434 Mcf/day
P_w = 265 psia
P_d = 428 psia
D = 370 Mcf/day

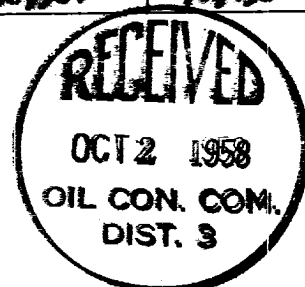
Company El Paso Natural Gas
By _____ Original Signed
Title _____
Witnessed by Harold L. Kendrick
Company _____

* 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 i)	P _t ² + R ²	P _w
1511	.104	114.169	11,874	50,564	70,438	265

D at 250 = 428



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[illegible]

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

[illegible]

463

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

4

• • •

100

100

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100

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

100

1

1997

100

100

100

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1987). The *Chlorophyll a* and *Chlorophyll b* contents were expressed as $\mu\text{g g}^{-1}$ of dry weight.