

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)

122-130
Pool Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 30-6 Well No. 30-20
Unit G Sec. 20 Twp. 30 Rge. 6 Pay Zone: From 5216 To 5662
Casing: OD 5-1/2 WT. 15.5 Set At 5735 Tubing: OD 2 WT. 4.7 T. Perf. 5611
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 642 Estimated _____
Date of Flow Test: From 4/8/59 To 4/15/59 * Date S.I.P. Measured 2/18/59
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 (6.89) ² x sp. const. 10 = 475 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 475 psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 1050 psig + 12 = 1062 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 1045 psig + 12 = 1057 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1057 psia (l)
Flowing Temp. (Meter Run) _____ 85 °F + 460 _____ = 545 ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 529 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{2539}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 2539 $\left[\frac{\left(P_c^2 - P_d^2 \right)}{\left(P_c^2 - P_w^2 \right)} = \frac{\text{837408}}{\text{760553}} \right]^n \frac{\text{1.1010}}{\text{1.0749}} = \text{2729}$ MCF/day.

SUMMARY

P _c =	<u>1057</u>	psia	Company	<u>El Paso Natural Gas</u>
Q =	<u>2539</u>	Mcf/day	By	<u>Original Signed</u>
P _w =	<u>597</u>	psia	Title	<u>Harold L. Kendrick</u>
P _d =	<u>529</u>	psia	Witnessed by	_____
D =	<u>2729</u>	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	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	P _t ² (Column i)	P _t ² + R ²	P _w
3602	.230	569.872	131,071	225,625	356,696	597

D at 500 = 2461

