

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)

72-303-01

Pool Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Filan Well No. 4
Unit H Sec. 5 Twp. 27 Rge. 8 Pay Zone: From 4420 To 4606
Casing: OD 5-1/2 WT. 15.5 Set At 4670 Tubing: OD 2 WT. 4.7 T. Perf. 4550
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 713 Estimated _____
Date of Flow Test: From 11/7/58 To 11/15/58 * Date S.I.P. Measured 7/22/58 (10 days)
Meter Run Size 4 Orifice Size 1.000 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 (7.00) ² x sp. const. 10 _____ = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 490 psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) 1043 psig + 12 = 1055 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1043 psig + 12 = 1055 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1055 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 _____ = 514 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 528 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{1011}{1} \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1011}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{1011}{\left[\frac{834241}{853953} \right]^n} \times \frac{9769}{9826} = 993 \text{ MCF/day}$$

SUMMARY

P_c = 1055 psia
Q = 1011 Mcf/day
P_w = 509 psia
P_d = 528 psia
D = 993 Mcf/day

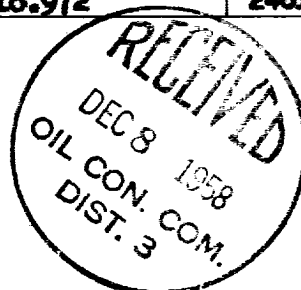
Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
Witnessed by _____
Company _____

* 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
3244	.210	90.345	18.972	240100	259072	509

D at 500 = 992



OK