

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 Date Test Filed _____

Operator El Paso Natural Gas Lease Barron Kidd Well No. 8
Unit H Sec. 29 Twp. 30 Rge. 6 Pay Zone: From 5056 To 5518
Casing: OD 5-1/2 WT. 15.5 Set At 5620 Tubing: OD 2 WT. 4.7 T. Perf. 5499
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .658 Estimated _____
Date of Flow Test: From 10/7/58 To 10/15/58 Date S.I.P. Measured 6/16/58
Meter Run Size _____ Orifice Size 1.750 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 (7.25) ² x sp. const. 10 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 526 psia (h)
P_t = (h) + (f) = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 1061 psig + 12 = 1073 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1060 psig + 12 = 1072 psia (k)
P_c = (j) or (k) whichever well flowed through = 1072 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 = 540 °Abs (m)
P_d = ½ P_c = ½ (l) = 536 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{2744} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 2744 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{861.888}{718.757}^n \frac{1.1991}{1.1460} = \text{3145} \text{ MCF/da.}$

SUMMARY

P_c = 1072 psia
Q = 2744 Mcf/day
P_w = 656 psia
P_d = 536 psia
D = 3145 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
3618	.231	665.588	153.751	276.676	430.427	656

D at 500 = 2778



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