

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 Company Date Test Filed _____

Operator El Paso Natural Gas * Lease Barron Kidd Well No. 1-E
Unit N Sec. 34 Twp. 30 Rge. 6 Pay Zone: From 5202 To 5668
Casing: OD 5-1/2 WT. 15.5 Set At 5797 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5660
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .660 Estimated _____
Date of Flow Test: From 7/16 To 7/24 * Date S.I.P. Measured 6/4/57 (36 days)
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Rt. Type Taps Flange

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 (6.45) ² x sp. const. _____ = 416 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 416 psia (h)
P_t = (h) + (f) _____ = 416 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 1068 psig + 12 = 1080 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 1064 psig + 12 = 1076 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1076 psia (l)
Flowing Temp. (Meter Run) _____ 93 °F + 460 _____ = 553 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 538 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{2841} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 2841 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.0655}{1.0487} = \text{2979} \text{ MCF/da.}$

SUMMARY

P_c = 1076 psia
Q = 2841 Mcf/day
P_w = 586 psia
P_d = 538 psia
D = 2979 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Lewis D. Galloway
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 _d ² R ² (Column 3 + Column 4)	P _w
3736	.238	713.478	169,808	173,056	586

D at 500 = 2646

OK

