

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 San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 32-9 Well No. 38
Unit B Sec. 35 Twp. 32N Rge. 10W Pay Zone: From 4880 To 5420
Casing: OD 5 1/2 WT. 15.5 Set At 5483 Tubing: OD 2 WT. 4.7 T. Perf. 5390
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .655 Estimated _____
Date of Flow Test: From 5/16 To 5/24/57 * Date S.I.P. Measured 10/5/56 (13 days)
Meter Run Size 4 Orifice Size 2.000 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: _____ = _____ 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 (7.50) ² x sp. const. 10 = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 563 psia (h)
P_t = (h) + (f) = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) 1050 psig + 12 = 1062 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1052 psig + 12 = 1064 psia (k)
P_c = (j) or (k) whichever well flowed through = 1064 psia (l)
Flowing Temp. (Meter Run) 87 °F + 460 = 547 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 532 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{_____}}{\sqrt{(d)}} = \text{_____} \right)^* = \underline{1755} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1755 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{849,072}{753,591}^n \frac{1.1267}{1.0935} = \underline{1919} \text{ MCF/da.}$

SUMMARY

P_c = 1064 psia
Q = 1755 Mcf/day
P_w = 615 psia
P_d = 532 psia
D = 1919 Mcf/day

Company El Paso Natural Gas Company
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 _t ² (Column i)	P _t ² + R ²	P _w
3530	0.226	272.283	61,536	316,969	378,505	615

D at 500 = 1843

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