

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 Astec Pictured Cliff Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 12/14/55
Operator El Paso Natural Gas Co. Lease Fuller Pool Unit Well No. 2
Unit G Sec. 22 Twp. 30 Rge. 11 Pay Zone: From 2300 To 2360
Casing: OD 5 1/2 WT. 15.5 Set At 2302 Tubing: OD 1 WT. 1.684 T. Perf. 2327
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .640
Date of Flow Test: From 11/22 To 11/30 * Date S.I.P. Measured 9/29/55
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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.25)² x sp. const. 5 _____ = 195 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 195 psia (h)
P_t = (h) + (f) _____ = 195 psia (i)
Wellhead casing shut-in pressure (Dwt) 633 psig + 12 = 645 psia (j)
Wellhead tubing shut-in pressure (Dwt) 633 psig + 12 = 645 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 645 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 _____ = 514 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 323 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{489} \text{ MCF/da}$

(integrated)

DELIVERABILITY CALCULATION

D = Q 489 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{.9881}{.9899} = \text{484} \text{ MCF/da.}$

SUMMARY

P_c = 645 psia
Q = 489 Mcf/day
P_w = 317 psia
P_d = 323 psia
D = 484 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})	(FcQ) ²	(FcQ) ² R ²	(1-e ^{-s})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>489</u>	<u>.103</u>	<u>607.125</u>	<u>62,565</u>		<u>38,025</u>	<u>100,590</u>	<u>317</u>

D @ 250 = 455

OK



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