

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 Ballard Pictured Cliff Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Thompson Well No. 1-B
Unit G Sec. NE24 Twp. 26N Rge. 9W Pay Zone: From 1932 To 1981
Casing: OD 5 1/2 WT. 15.50 Set At 2012 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 1933
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 6/22 To 6/30 * Date S.I.P. Measured 4/4/56
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 (7.70) ² x sp. const. 5 _____ = 296 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 296 psia (h)
P_t = (h) + (f) _____ = 296 psia (i)
Wellhead casing shut-in pressure (Dwt) 625 psig + 12 = 637 psia (j)
Wellhead tubing shut-in pressure (Dwt) 625 psig + 12 = 637 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 637 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 _____ = 528 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 319 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \underline{1738} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1738 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{304,008}{317,728} \cdot \frac{.9568}{.9632} = \underline{1674} \text{ MCF/da.}$

SUMMARY

P_c = 637 psia
Q = 1738 Mcf/day
P_w = 297 psia
P_d = 319 psia
D = 1675 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
<u>1323</u>	<u>.092</u>	<u>4.623</u>	<u>425</u>		<u>88,041</u>	<u>297</u>

D @ 250 = 1826

UK



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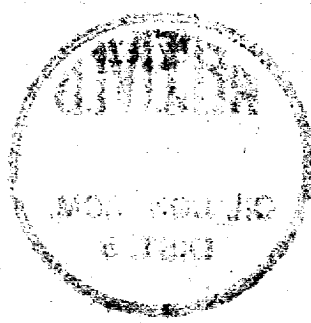
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