

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 Co. Lease Durfano Well No. 29
Unit F Sec. 9 Twp. 26N Rge. 9W Pay Zone: From 2138 To 2188
Casing: OD 5 1/2 WT. 14 Set At 2138 Tubing: OD 1 WT. 2.4 T. Perf. 2152
Produced Through: Casing X Tubing _____ Gas Gravity: Measured _____ Estimated .635
Date of Flow Test: From 1/23 To 1/31/56 * Date S.I.P. Measured 12/8/54
Meter Run Size 4 Orifice Size _____ Type Chart Eq. 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 (7.10)² x sp. const. 5 = 252 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 252 psia (h)
P_f = (h) + (f) = 252 psia (i)
Wellhead casing shut-in pressure (Dwt) 653 psig + 12 = 665 psia (j)
Wellhead tubing shut-in pressure (Dwt) 653 psig + 12 = 665 psia (k)
P_c = (j) or (k) whichever well flowed through = 665 psia (l)
Flowing Temp. (Meter Run) 40 °F + 460 = 500 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 332 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{109}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 109 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{97}$ MCF/da.
 $\frac{0.87488}{0.8926}$

SUMMARY

P_c = 665 psia
Q = 109 Mcf/day
P_w = 252 psia
P_d = 332 psia
D = 97 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
Witnessed by _____
Company _____

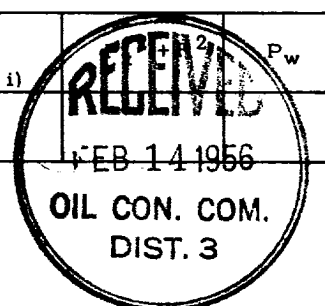
* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _f ² (Column i)	P _w
			<u>FRICTION NEGLECTIBLE</u>		

D = 250 = 108

OK



11/18/52

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