

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)

72-338-01

Pool East Blanco Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 30-4 Well No. 21
Unit D Sec. 22 Twp. 30 Rge. 4 Pay Zone: From 4304 To 4572
Casing: OD 5-1/2 WT. 15.50 Set At 4597 Tubing: OD 2" WT. 4.7 T. Perf. 4505
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .623 Estimated _____
Date of Flow Test: From 12/7/58 To 12/15/58 * Date S.I.P. Measured 9/29/58 (13 days)
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

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 (7.05) ² x sp. const. 10 _____ = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 497 psia (h)
P_t = (h) + (f) _____ = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) 1132 psig + 12 = 1144 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1130 psig + 12 = 1142 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1142 psia (l)
Flowing Temp. (Meter Run) 55 °F + 460 _____ = 515 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 571 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{267} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 267 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{978,123}{1055989} \cdot \frac{.9262}{.9368} = \underline{250} \text{ MCF/da.}$

SUMMARY

P_c = 1142 psia
Q = 267 Mcf/day
P_w = 498 psia
P_d = 571 psia
D = 250 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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
2807	.185	6.300	1,166	247,009	248,175	498

D at 250 = 305

OK



THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY

RECEIVED
JAN 10 1964

TO THE DIRECTOR
FROM THE DEPARTMENT OF CHEMISTRY
RE: [illegible]

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