

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 Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 28-7 Unit Well No. 18
Unit M Sec. 25 Twp. 28 Rge. 7 Pay Zone: From 4455 To 5268
Casing: OD 7 WT. 20 & 23 Set At 4478 Tubing: OD 2 WT. 4.7 T. Perf. 5230
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From July 31 To Aug. 8 * Date S.I.P. Measured November 30, 1954
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 (7.35) ² x sp. const. _____ = 540 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 540 psia (h)
P_t = (h) + (f) _____ = 540 psia (i)
Wellhead casing shut-in pressure (Dwt) 1102 psig + 12 = 1114 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1092 psig + 12 = 1104 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1104 psia (l)
Flowing Temp. (Meter Run) 79 °F + 46C _____ = 539 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 552 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{769}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 769 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \cdot (.99864) \cdot 75 \cdot Q \cdot (.99898) Q = \underline{768}$ MCF/da.

SUMMARY

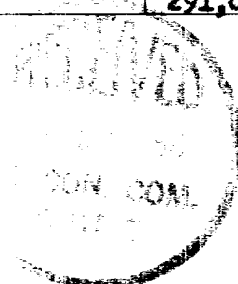
P_c = 1104 psia Company El Paso Natural Gas Company
Q = 769 Mcf/day By Original Signed
P_w = 551 psia Title Lewis D. Galloway
P_d = 552 psia Witnessed by _____
D = 768 Mcf/day Company _____

* 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>3541</u>	<u>.227</u>	<u>52,273</u>	<u>11,865</u>	<u>291,600</u>	<u>303,465</u>	<u>551</u>

D @ 500 = 787



OIL CONSERVATION COMMISSION AZTEC DISTRICT OFFICE

Receiving Ref. No. **3**

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