

Initial Deliverability
Test

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 San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 32-9 Well No. 15
Unit L Sec. 9 Twp. 31 Rge. 9 Pay Zone: From 5364 To 5858
Casing: OD 7 WT. 20 & 23 Set At 5303 Tubing: OD 2 WT. 4.7 T. Perf. 5774
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .655 Estimated _____
Date of Flow Test: From 4/23 To 5/1/57 * Date S.I.P. Measured 5/8/56
Meter Run Size 4 Orifice Size .750 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 (7.45) ² x sp. const. 10 _____ = 555 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 555 psia (h)
P_t = (h) + (f) _____ = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 956 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 952 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 956 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 525 ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 478 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{194} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION
D = Q 194 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{685,452}{605,911} \right]^n = \frac{1.1312}{1.0969} = \text{213} \text{ MCF/da.}$

SUMMARY

P_c = 956 psia Company El Paso Natural Gas
Q = 194 Mcf/day By _____
P_w = 555 psia Title Lewis D. Galloway
P_d = 478 psia Witnessed by _____
D = 213 Mcf/day Company _____

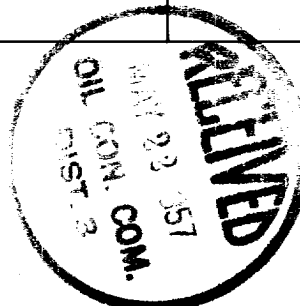
* This is date of completion test.

* 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

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