

Initial Deliverability Test
71-408

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 Undesignated East Company Formation Dakota County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 27-4 Unit Well No. 7
Unit N Sec. 9 Twp. 27 Rge. 4 Pay Zone: From 7680 To 8026
Casing: OD 5-1/2 WT. 15.5 Set At 8073 Tubing: OD 2 WT. 4.7 T. Perf. 7971
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .640 Estimated _____
Date of Flow Test: From 7/17/57 To 7/24/57 Date S.I.P. Measured Aug. 2, 1956
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 (7.25) ² x sp. const. 10 _____ = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 1824 psig + 12 = 1836 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1234 psig + 12 = 1246 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1246 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 623 psia (n)

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

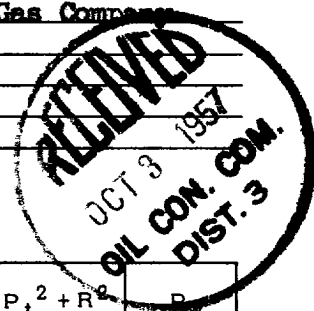
DELIVERABILITY CALCULATION

D = Q 264 $\left[\frac{(P_c^2 - P_d^2) = \frac{116,4387}{1273930}}{(P_c^2 - P_w^2) = \frac{.9140}{.9349}} \right]^n = \text{_____} \text{ MCF/da.}$

SUMMARY

P_c = 1246 psia
Q = 264 Mcf/day
P_w = 528 psia
P_d = 623 psia
D = 247 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
5101	.310	6.160	1,910	276,676	278,586	528

OK D at 500 = 266

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