

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 Artec Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Company Lease Lackey Well No. 5-B
Unit P Sec. 20 Twp. 28 Rge. 9 Pay Zone: From 2106 To 2143
Casing: OD 5 1/2 WT. 15.5 Set At 2210 Tubing: OD 1 1/4 WT. 2.30 T. Perf. 2077
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 650 Estimated _____
Date of Flow Test: From 10-9-56 To 10-17-56 * Date S.I.P. Measured 6/13/56 (10 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 (7.00) ² x sp. const. 5 _____ = 243 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 243 psia (h)
P_t = (h) + (f) _____ = 243 psia (i)
Wellhead casing shut-in pressure (Dwt) 695 psig + 12 = 707 psia (j)
Wellhead tubing shut-in pressure (Dwt) 695 psig + 12 = 707 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 707 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 524 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 354 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{739} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 739 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{.8515}{.8723} = \underline{662} \text{ MCF/da.}$

SUMMARY

P_c = 707 psia
Q = 739 Mcf/day
P_w = 243 psia
P_d = 354 psia
D = 662 MCF/day
Company El Paso Natural Gas Company
By J.D. Holloway
Title _____
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(FcQ) ²	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w

D = 662 = 746

OK





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