

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

Operator El Paso Natural Gas Lease Jicarilla Well No. 5-B
Unit N Sec. 27 Twp. 25 Rge. 4 Pay Zone: From 3160 To 3198
Casing: OD 5-1/2 WT. 15.5 Set At 3270 Tubing: OD 2 WT. 4.7 T. Perf. 3063
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 12-31-57 To 1-9-58 * Date S.I.P. Measured 7-17-57 (17 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 (7.75)² x sp. const. 5 _____ = 300 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 300 psia (h)
P_t = (h) + (f) _____ = 300 psia (i)
Wellhead casing shut-in pressure (Dwt) 994 psig + 12 = 1006 psia (j)
Wellhead tubing shut-in pressure (Dwt) 994 psig + 12 = 1006 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1006 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 503 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{2083} \text{ MCF/da}$
(integrated) $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 2083 $\left[\frac{(P_c^2 - P_d^2) = \text{759,027}}{(P_c^2 - P_w^2) = \text{920,199}} \right]^n \frac{.8248}{.8489} = \text{1768} \text{ MCF/da.}$

SUMMARY

P_c = 1006 psia
Q = 2083 Mcf/day
P_w = 303 psia
P_d = 503 psia
D = 1768 Mcf/day

Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
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
2180	.147	12.496	1,837	90,000	91,837	303

alt

D at 250 = 2124

