

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 Wildcat Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline Pacific Northwest Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 27-5 Unit Well No. 18-36 (D)
Unit K Sec. 36 Twp. 27 Rge. 5 Pay Zone: From 3506 To 3532
Casing: OD 7 5/8 WT. 26.4 Set At 3562 Tubing: OD 2 WT. 4.7 T. Perf. 5726
Produced Through: Casing X Tubing _____ Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 5/3 To 5/11/57 * Date S.I.P. Measured 10/26/56 (7 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 565 psig + 12 = 577 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 577 psia (h)
P_t = (h) + (f) _____ = 577 psia (i)
Wellhead casing shut-in pressure (Dwt) 1032 psig + 12 = 1094 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1094 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 547 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{4778}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 4778 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{4940}$ MCF/day
 $\frac{807,627}{862,048}$ $\frac{1.0401}{1.0340}$

SUMMARY

P_c = 1094 psia
Q = 4778 Mcf/day
P_w = 578 psia
P_d = 547 psia
D = 4940 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
2279	.153	6.270	959	332,929	333,888	578

D at 250 = 5994

