

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 Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Co. Lease San Juan 28-7 Well No. 55
Unit N Sec. 12 Twp. 28 N Rge. 7 W Pay Zone: From 5100 To 5632
Casing: OD 5-1/2 WT. 15.5 Set At 5700 Tubing: OD 2 WT. 4.7 T. Perf. 5564
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 690 Estimated _____
Date of Flow Test: From 3-31-57 To 4-9-57 * Date S.I.P. Measured 8-27-56
Meter Run Size 4 Orifice Size 1.750 Type Chart Sq. Root Type Taps F

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 (7.50) ² x sp. const. 10 = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 563 psia (h)
P_t = (h) + (f) _____ = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) 1083 psig + 12 = 1095 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1076 psig + 12 = 1088 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1088 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 _____ = 540 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 544 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{2606 MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{3049 MCF/da.}$$

SUMMARY

P_c = 1088 psia
Q = 2606 Mcf/day
P_w = 681 psia
P_d = 544 psia
D = 3049 Mcf/day

Company Original Signed
By Lewis D. Galloway
Title _____
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
3839	244	600.348	146.485	316969	463454	681

921692 - 10632 = 10470
866775
D500 = 2728

OK

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