

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 MESA VERDE Formation MESA VERDE County RIO ARRIBA
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 2-20-61
Operator LA PLATA GATHERING SYSTEM, INC. Lease SAN JUAN 32-5 UNIT Well No. 2-25 MV
Unit B Sec. 25 Twp. 32N Rge. 6W Pay Zone: From 5451 To 5816
Casing: OD 5-1/2" WT. 17# Set At 8117 Tubing: OD 1 1/2" WT. 2.4# T. Perf. 5834
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.600 Estimated _____
Date of Flow Test: From 1-7-61 To 1-15-61 * Date S.I.P. Measured 11-21-60
Meter Run Size 4" Orifice Size 1.500 Type Chart Sq. Rt. Type Taps Flange

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 (7.55) ² x sp. const. 10 _____ = 570 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 570 psia (h)
P_t = (h) + (f) _____ = 570 psia (i)
Wellhead casing shut-in pressure (Dwt) 1131 psig + 12 = 1143 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1133 psig + 12 = 1145 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1143 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 572 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{V(c)}}{\sqrt{V(d)}} \right) = \text{_____}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{0.998} = 815 \times \left[\frac{979,200}{981,400} \right]^{0.998} = 814 \text{ MCF/da.}$$

SUMMARY

P_c = 1143 psia
Q = 815 Mcf/day
P_w = 570 psia
P_d = 572 psia
D = 814 Mcf/day

Company LA PLATA GATHERING SYSTEM, INC.
By Angel J. Soto
Title Engineer
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
3500	0.225	546	123	324,900	325,023	570

OK

