

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)

72-081

Pool Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 29-7 Unit Well No. 55
Unit H Sec. 36 Twp. 29N Rge. 7W Pay Zone: From 5108 To 5646
Casing: OD 5-1/2 WT. 15.5 Set At 5730 Tubing: OD 2" WT. 4.7 T. Perf. 5611
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .673 Estimated _____
Date of Flow Test: From 4/9/58 To 4/17/58 * Date S.I.P. Measured 1-6-58
Meter Run Size _____ Orifice Size 2.250 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 (7.60) ² x sp. const. 10 _____ = 578 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 578 psia (h)
P_t = (h) + (f) _____ = 578 psia (i)
Wellhead casing shut-in pressure (Dwt) 1097 psig + 12 = 1109 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1090 psig + 12 = 1102 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1102 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 551 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \underline{2493} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{2493} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{910803}{748467} \right]^n \frac{1.2168}{1.1585} = \underline{2888} \text{ MCF/da.}$$

SUMMARY

P_c = 1102 psia
Q = 2493 Mcf/day
P_w = 683 psia
P_d = 551 psia
D = 2888 Mcf/day

Company El Paso Natural Gas
By Donald H. Hendrick
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
<u>3776</u>	<u>.240</u>	<u>549.387</u>	<u>131,853</u>	<u>334,084</u>	<u>465937</u>	<u>683</u>

D at 500 = 2644

OK

