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 **Tapicito Pictured Cliffs** Formation **Pictured Cliffs** County **Rio Arriba**

Purchasing Pipeline **Southern Union Gas Company** Date Test Filed **3/28/56**

Operator **Southern Union Gas Co.** Lease **Jicarilla** Well No. **1-3**

Unit **J** Sec. **16** Twp. **26-N** Rge. **4-W** Pay Zone: From **3416** To **3437**

Casing: OD **7"** WT. **23#** Set At **3407** Tubing: OD **2-3/8"** WT. **4.7#** T. Perf. **3423**

Produced Through: Casing _____ Tubing **XX** Gas Gravity: Measured _____ Estimated **.660**

Date of Flow Test: From **2/29/56** To **3/8/56** * Date S.I.P. Measured **7/8/54**

Meter Run Size **4"** Orifice Size **1-3/4"** Type Chart **Normal** 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 **548** psig + 12 = **560** psia (g)

Square root chart average reading (_____)^2 x sp. const. _____ = **560** psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = **560** psia (h)

P_t = (h) + (f) = **560** psia (i)

Wellhead casing shut-in pressure (Dwt) **1084** psig + 12 = **1096** psia (j)

Wellhead tubing shut-in pressure (Dwt) **1085** psig + 12 = **1097** psia (k)

P_c = (j) or (k) whichever well flowed through = **1097** psia (l)

Flowing Temp. (Meter Run) **60** °F + 460 = **520** °Abs (m)

P_d = ½ P_c = ½ (l) = **548** psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{2321} \quad \times \quad \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_ = \textbf{None} \right)^* = \quad 2321 \quad \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \quad 2321 \quad \left[\frac{P_c^2 - P_d^2 = \textbf{903,105}}{P_c^2 - P_w^2 = \textbf{813,229}} \right]^n \quad \frac{0.85 (1.10435)^N \quad 2517}{1.0932} = \quad 2237 \quad \text{MCF/da.}$$

1.0844

817768

SUMMARY

P_c = **1097** psia

Q = **2321** Mcf/day

P_w = 621 **604.6** psia

P_d = **548** psia

D = **2237** Mcf/day

Company **Southern Union Gas Company**

By **L. S. Mccamish**

Title **Jr. Petroleum 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	$\dfrac{(F_cQ)^2 \ (1-e^{-s})}{R^2}$	$\dfrac{P_t^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
2259	0.144	531.80	76.58	313.600	390.180	604.6

621