Form C-122-A
Revised April 20, 1955

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 Tapacito Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline Southern Union Gas Company Date Test Filed January 20, 1959

Operator Southern Union Gas Company Lease Lebow Well No. 1

Unit B Sec. 14 Twp. 25 N Rge. 3 W Pay Zone: From 3816 To 3850

Casing: OD 5½" WT. 15.5# Set At 3910 Tubing: OD 2 3/8" WT. 4.7# T. Perf. 3841

Produced Through: Casing ____ Tubing XX Gas Gravity: Measured .667 Estimated ____

Date of Flow Test: From 12/31/58 To 1/7/59 * Date S.I.P. Measured 11/4/58

Meter Run Size 4" Orifice Size 2½" Type Chart 1-10 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 (7.7)^2 x sp. const. 10 = 593	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 593	psia	(h)
P_t = (h) + (f) = 593	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1048 psig + 12 = 1060	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1048 psig + 12 = 1060	psia	(k)
P_c = (j) or (k) whichever well flowed through = 1060	psia	(l)
Flowing Temp. (Meter Run) 68 °F + 460 = 528	°Abs	(m)
P_d = ½ P_c = ½ (l) = 530	psia	(n)

FLOW RATE CALCULATION

$$Q = 3866 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = 1.0000 \right)^{*} = 3866 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{842,700}{612,375} \right]^{n} \quad n = 0.85 \quad 1.3118 = 4984 \text{ MCF/da.}$$

SUMMARY

P_c =	1060	psia	
Q =	3866	Mcf/day	
P_w =	715	psia	
P_d =	530	psia	
D =	4984	Mcf/day	

Company Southern Union Gas Company
By Bill McKinney Bill McKinney (O.C.)
Title Exploration Dept.
Witnessed by ____
Company ____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
.2562	0.179	962.916	160.296	351.649	511.945	715

RECEIVED
JAN 22 1959
OIL CON. COM.
DIST. 3