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: 4/3/57

Operator: Southern Union Gas Company Lease: McCracken Well No.: 1

Unit: M Sec.: 3 Twp.: 25N Rge.: 3W Pay Zone: From: 3774 To: 3818

Casing: OD: 4½ WT.: 12.7# Set At: 3849 Tubing: OD: 2 3/8 WT.: 4.7# T. Perf.: 3762

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

Date of Flow Test: From: 3/16/57 To: 3/24/57 * Date S.I.P. Measured: 8/24/56

Meter Run Size: 4" Orifice Size: 1" 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	669	psig + 12 = 681	psia	(g)
Square root chart average reading (___)^2 x sp. const.		= -	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		= 681	psia	(h)
P_t = (h) + (f)		= 681	psia	(i)
Wellhead casing shut-in pressure (Dwt)	1059	psig + 12 = 1071	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	1059	psig + 12 = 1071	psia	(k)
P_c = (j) or (k) whichever well flowed through		= 1071	psia	(l)
Flowing Temp. (Meter Run)	57 °F + 460	= 517	°Abs	(m)
P_d = ½ P_c = ½ (l)		= 535	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{924} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_ = \text{None} \right)^{*} = 924 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 924 \left[\frac{P_c^2 - P_d^2 = 860{,}816}{P_c^2 - P_w^2 = 670{,}941} \right]^{n\ 0.85} 1.2358 = 1142 \text{ MCF/da.}$$

SUMMARY

P_c =	1071	psia
Q =	924	Mcf/day
P_w =	690	psia
P_d =	535	psia
D =	1142	Mcf/day

Company: Southern Union Gas Company

By: L. S. Mesendink

Title: Exploration Engineer

Witnessed by: ___

Company: ___

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
2509	0.167	75.470	12.603	463.761	476.364	690

RECEIVED
APR 8 1957
OIL CON. COM.
DIST. 3

OK