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 Ballard Pictured Cliffs Formation Pictured Cliffs County San Juan

Purchasing Pipeline Southern Union Gas Company Date Test Filed 3/20/56

Operator Southern Union Gas Co. Lease Newsom Well No. 8

Unit G Sec. 29 Twp. 26-N Rge. 8-W Pay Zone: From 2151' To 2235'

Casing: OD 5-1/2" WT. 15.5# Set At 2158' Tubing: OD 1" WT. 1.7# T. Perf. ____

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

Date of Flow Test: From 1-24-56 To 1-31-56 * Date S.I.P. Measured 5-9-55

Meter Run Size 4" Orifice Size 1/2" 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	171 psig + 12 =	183	psia	(g)
Square root chart average reading (____)^2 x sp. const.	=	---	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	183	psia	(h)
P_t = (h) + (f)	=	183	psia	(i)
Wellhead casing shut-in pressure (Dwt)	607 psig + 12 =	619	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	607 psig + 12 =	619	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	619	psia	(l)
Flowing Temp. (Meter Run)	60 °F + 460 =	520	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	309	psia	(n)

FLOW RATE CALCULATION

Q = 79 (integrated) $\times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \text{None} \right)^* =$ 79 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ = 79 $\left[\frac{287,680}{272,958} = \frac{334,960}{349,672} \right]^{0.85}$ = 79 $\times$ .8428 = 66 MCF/da.

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SUMMARY

P_c =	619	psia
Q =	79	Mcf/day
P_w =	183	psia
P_d =	309	psia
D =	66	Mcf/day

Company Southern Union Gas Company

By L. S. Mossmink

Title Jr. Petroleum Engineer

Witnessed by ____

Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
		Friction Loss Negligible				

OK

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