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 Formation Pictured Cliffs County San Juan

Purchasing Pipeline Southern Union Gas Company Date Test Filed March 5, 1958

Operator Southern Union Gas Company Lease Newsom Well No. 3-B

Unit L Sec. 8 Twp. 26 N Rge. 8 W Pay Zone: From 2068 To 2164

Casing: OD 5½" WT. 15.5# Set At 2215 Tubing: OD 1" WT. 1.7# T. Perf. 2068

Produced Through: Casing XX Tubing Gas Gravity: Measured .688 Estimated

Date of Flow Test: From 2/14/58 To 2/21/58 * Date S.I.P. Measured 10/7/57

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 230	psig + 12 =	242	psia	(g)
Square root chart average reading ( )^2 x sp. const.	=		psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	242	psia	(h)
P_t = (h) + (f)	=	242	psia	(i)
Wellhead casing shut-in pressure (Dwt) 649	psig + 12 =	661	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 649	psig + 12 =	661	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	661	psia	(l)
Flowing Temp. (Meter Run) 54 °F + 460	=	514	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	331	psia	(n)

FLOW RATE CALCULATION

$Q = 307$ (integrated) $\times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \text{None} \right)^* = 307$ MCF/da

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{307,360}{370,357} \right]^n = 307 \times .88422 = 271 \text{ MCF/da.}$$

(n = 0.85)

SUMMARY

P_c =	661	psia	
Q =	307	Mcf/day	
P_w =	242	psia	
P_d =	331	psia	
D =	271	Mcf/day	

Company Southern Union Gas Company

By Bill McKinney Bill McKinney

Title Exploration Dept.

Witnessed by

Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
		FRICTION LOSS NEGLIGIBLE				

RECEIVED
MAR 10 1958
OIL CON. COM.
DIST. 3