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 South Blanco Formation Pictured Cliffs County San Juan

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

Operator Southern Union Gas Company Lease Navajo Well No. 1-B

Unit M Sec. 30 Twp. 27 N Rge. 8 W Pay Zone: From 2000 To 2060

Casing: OD 5½" WT. 15.5# Set At 2128 Tubing: OD 1" WT. 1.7# T. Perf. 2000

Produced Through: Casing XX Tubing ____ Gas Gravity: Measured .650 Estimated ____

Date of Flow Test: From 2/14/58 To 2/21/58 * Date S.I.P. Measured 9/26/57

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 248 psig + 12 = 260 psia			(g)
Square root chart average reading (____)^2 x sp. const. = ____ psia			(g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 260 psia			(h)
P_t = (h) + (f) = 260 psia			(i)
Wellhead casing shut-in pressure (Dwt) 701 psig + 12 = 713 psia			(j)
Wellhead tubing shut-in pressure (Dwt) 701 psig + 12 = 713 psia			(k)
P_c = (j) or (k) whichever well flowed through = 713 psia			(l)
Flowing Temp. (Meter Run) 45 °F + 460 = 505 °Abs			(m)
P_d = ½ P_c = ½ (l) = 357 psia			(n)

FLOW RATE CALCULATION

$$Q = 425 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \text{None} \right)^{*} = 425 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\,425 \left[\frac{P_c^2 - P_d^2 = 380,980}{P_c^2 - P_w^2 = 340,769} \right]^{n\ 0.85} .8833 = 375 \text{ MCF/da.}$$

SUMMARY

P_c = 713	psia	Company	Southern Union Gas Company
Q = 425	Mcf/day	By	Bill McKinney
P_w = 260	psia	Title	Exploration Dept.
P_d = 357	psia	Witnessed by	
D = 375	Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

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

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