[illegible] OIL CONSERVATION [illegible]

GAS WELL TEST DATA SHEET - [illegible]

[illegible] FRUITLAND, PICTURED CLIFFS, [illegible]
EXCEPT BARKER DOME STORAGE [illegible]

Pool [illegible] Formation [illegible]

Purchasing Pipeline [illegible] Date Test Filed [illegible]

Operator [illegible] Lease [illegible] Well No. [illegible]

Unit [illegible] Sec. [illegible] Twp. [illegible] Rge. [illegible] Pay Zone: From [illegible] To [illegible]

Casing: OD [illegible] WT. [illegible] Set At 3861 Tubing: OD [illegible] WT. [illegible] T. Perf. [illegible]

Produced Through: Casing ____ Tubing XX Gas Gravity: Measured [illegible] Estimated [illegible]

Date of Flow Test: From [illegible] To 2-11-[illegible]* Date S.I.P. Measured [illegible]

Meter Run Size [illegible] Orifice Size 1.500 Type Chart [illegible] Type Taps [illegible]

OBSERVED DATA

Flowing casing pressure (Dwt)	567	psig + 12 =	[illegible]
Flowing tubing pressure (Dwt)	511	psig + 12 =	[illegible]
Flowing meter pressure (Dwt)	510	psig + 12 =	[illegible]
Flowing meter pressure (meter reading when Dwt. measurement taken:			
Normal chart reading		psig + 12 =	
Square root chart reading (7.2) ^{2} x spring constant		=	[illegible]
Meter error (c) - (d) or (d) - (c)	±	=	[illegible]
Friction loss, Flowing column to meter:			
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		=	[illegible]
Seven day average static meter pressure (from meter chart):			
Normal chart average reading		psig + 12 =	
Square root chart average reading (7.[illegible]) ^{2} x sp. const.		=	[illegible]
Corrected seven day avge. meter press. (p_f) (g) + (e)		=	[illegible]
P_t = (h) + (f)		=	[illegible]
Wellhead casing shut-in pressure (Dwt)	851	psig + 12 =	[illegible]
Wellhead tubing shut-in pressure (Dwt)	850	psig + 12 =	[illegible]
P_c = (j) or (k) whichever well flowed through		=	[illegible]
Flowing Temp. (Meter Run)	[illegible] °F + 460	=	[illegible]
P_d = ½ P_c = ½ (l)		=	[illegible]

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{[illegible]} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{22.847}{22.760} = 1.00[illegible] \right) = [illegible]$$

DELIVERABILITY CALCULATION

$$D = Q\ [illegible] \left[\frac{P_c^2 - P_d^2 = 557[illegible]}{P_c^2 - P_w^2 = \_\_\_\_} \right]^n \frac{.85}{\frac{1.[illegible]}{(1.[illegible])}} = [illegible]$$

SUMMARY

P_c =	[illegible]	psia	Company	[illegible]
Q =	[illegible]	Mcf/day	By	[illegible]
P_w =	[illegible]	psia	Title	[illegible]
P_d =	[illegible]	psia	Witnessed by	[illegible]
D =	[illegible]	Mcf/day	Company	[illegible]

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-s})$ / R^2	[illegible]
[illegible]	[illegible]	[illegible]	38.[illegible]	[illegible]

Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

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 Pictured Cliffs Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline Southern Union Gas Company Date Test Filed

Operator Southern Union Prod. Co. Lease Martinez Well No. 1

Unit M Sec. 2 Twp. 25-N Rge. 3-W Pay Zone: From 3781 To 3833

Casing: OD 3-1/2 WT. 9.30 Set At 3861 Tubing: OD 1-1/2" WT. 2.75 T. Perf. 3666

Produced Through: Casing ^ Tubing xx Gas Gravity: Measured .692 Estimated

Date of Flow Test: From 2-3-62 To 2-11-62* Date S.I.P. Measured 2-19-62

Meter Run Size 4.026 Orifice Size 1.500 Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt)	567 psig + 12 =	579	psia	(a)
Flowing tubing pressure (Dwt)	513 psig + 12 =	525	psia	(b)
Flowing meter pressure (Dwt)	510 psig + 12 =	522	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:				
Normal chart reading	psig + 12 =		psia	(d)
Square root chart reading (7.2)^2 x spring constant	=	518	psia	(d)
Meter error (c) - (d) or (d) - (c)	± =	+ 4	psi	(e)
Friction loss, Flowing column to meter:				
(b) - (c) Flow through tubing: (a) - (c) Flow through casing	=	+ 3	psi	(f)
Seven day average static meter pressure (from meter chart):				
Normal chart average reading	psig + 12 =		psia	(g)
Square root chart average reading (7.44)^2 x sp. const.	=	548	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	552	psia	(h)
P_t = (h) + (f)	=	555	psia	(i)
Wellhead casing shut-in pressure (Dwt)	851 psig + 12 =	863	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	850 psig + 12 =	862	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	862	psia	(l)
Flowing Temp. (Meter Run)	64 °F + 460 =	524	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	431	psia	(n)

FLOW RATE CALCULATION

$$Q = 914 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{22.847}{22.760} = 1.0038 \right)^{*} = 917 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{557283}{\quad} \right]^{n} \quad n = \frac{.85}{(1.4046)} \quad 1.3348 = 1224 \text{ MCF/da.}$$

SUMMARY

P_c =	862	psia
Q =	917	Mcf/day
P_w =	588	psia
P_d =	431	psia
D =	1224	Mcf/day

Company Southern Union Production Company
By Verne Rockhold Original Signed By
Title Jr. Engineer VERNE ROCKHOLD
Witnessed by Verne Rockhold
Company Southern Union Gas Co.

* 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
2537	.168	227.829	38.275	308.025	346.300	588

RECEIVED
FEB 27 1962
OIL CON. COM.
DIST. 3