

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 Cliff County Rio Arriba

Purchasing Pipeline Southern Union Gas ~~SECURING~~ Company _____ Date Test Filed 1-5-62

Operator Southern Union Gas Company Lease Jicarilla Well No. 27

Unit I Sec. 31 Twp. 26N Rge. 03W Pay Zone: From _____ To _____

Casing: OD _____ WT. _____ Set At _____ Taping: OD 11 WT. _____ T. Perf. 3896

Produced Through: Casing X Tubing _____ Gas Gravity: Measured _____ Estimated _____

Date of Flow Test: From 11-30-60 To 12-7-60 * Date S.I.P. Measured _____

Meter Run Size 1/2 inch Orifice Size 2 inch Type Chart Square Root Type Tops Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 674 psig + 12 = 686 psia (a)

Flowing tubing pressure (Dwt) 553 psig + 12 = 565 psia (b)

Flowing motor pressure (Dwt) 546 psig + 12 = 558 psig (a)

Flowing meter pressure (meter reading when Dwt. measurement taken):

Normal chart reading _____ $\text{pulg} + 12 =$ _____ pala (d)

Square root chart reading (7.45)² x spring constant 10 = 555 psia (d)

Motor error (c) - (d) or (d) - (c) $\pm$ (e)

Friction loss, Flowing column to meter:

(b) - (c) Flow through tubing; (a) - (c) Flow through casing = +123 psi (4)

Seven day average static meter pressure (from meter chart):

Normal chart average reading _____ pH 7.4 ± 0.2 _____ pH 7.4 ± 0.2 (a)

Square root chart average reading (7.35) ² x sp. const. 10 = 540 pps (a)

Corrected seven day avge. meter press. (p_f) (g) + (e) = 543 psia

$$P_1 = (h) + (f)$$

Wellhead casing shut-in pressure (Dwt) 1010 psig + 12 = 1022 psia

Wellhead tubing shut-in pressure (Dwt) 1011 psig + 12 = 1023 psig

$P_g = (j) \text{ or } (k) \text{ whichever well flowed through}$

Flowing Temp. (Motor Run) 65 °F + 480 " 525 °Abs (m

$P_d = \frac{1}{2} P_o \approx \frac{1}{2} (1)$ " 51 pole (h

FLOW RATE CALCULATION

Q = 204.3 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{23.62}{23.56} = 1.0025 \right) = 204.6$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

$$D = Q \cdot \frac{204.8}{\left[\frac{P_0^2 - P_d^2}{P_0^2 - P_w^2} = \frac{783,363}{594,243} \right]^n} = \frac{0.85}{1.2648} = 2590 \text{ MCF/da.}$$

SUMMARY

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Q = 204.8 Mol/day

1. P_w = 671 pela

Pd = 511 rubla

D = 2590 Mal/day

Company Southern Union Gas Company

By Verne Rockhold *Verne Rockhold*

Title Measurement Office Supervisor

Witnessed by _____

Company _____

• This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-\sigma^{-2})$	$(F_c Q)^2$	$(F_c Q)^2 (1-\sigma^{-2})$ R^2	P_1^2 (Column 1)	$P_1^2 + R^2$ P_w^2	P_w
			Friction Loss Negligible			