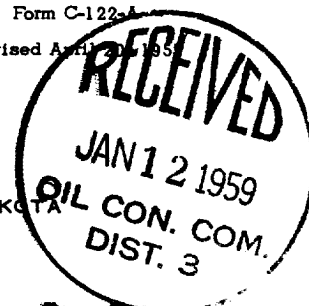


NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)Pool Blanco Formation Mesa Verde County San JuanPurchasing Pipeline Southern Union Gathering Co. Date Test Filed January 5, 1958Operator Southern Union Gas Company Lease Grand Well No. 2Unit H Sec. 7 Twp. 31 N Rge. 8 W Pay Zone: From 5000 To 5042Casing: OD 5 1/2" WT. 15.5# Set At 9015 Tubing: OD 2 3/8" WT. 4.7# T. Perf. 5000Produced Through: Casing _____ Tubing XX Gas Gravity: Measured .660 Estimated _____Date of Flow Test: From 12/16/58 To 12/24/58 * Date S.I.P. Measured 12/31/58Meter Run Size 4" Orifice Size 1 1/8" 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 560 psig + 12 = 572 psia (g)Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 572 psia (h)P_t = (h) + (f) _____ = 572 psia (i)Wellhead casing shut-in pressure (Dwt) 1009 psig + 12 = 1021 psia (j)Wellhead tubing shut-in pressure (Dwt) 1009 psig + 12 = 1021 psia (k)P_c = (j) or (k) whichever well flowed through _____ = 1021 psia (l)Flowing Temp. (Meter Run) 64 °F + 460 _____ = 524 °Abs (m)P_d = 1/2 P_c = 1/2 (l) _____ = 510 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{1042}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1.0000}{1.0000} \right)^* = 1042 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1042}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.75} \frac{1.0000}{1.0000}} = 1126 \text{ MCF/da.}$$

SUMMARY

P_c = 1021 psia
Q = 1042 Mcf/day
P_w = 590 psia
P_d = 510 psia
D = 1126 Mcf/day

Company Southern Union Gas Company
By L. E. Mennink
Title Exploration Engineer
Witnessed by _____
Company _____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3000</u>	<u>0.243</u>	<u>95.979</u>	<u>23.383</u>	<u>327.184</u>	<u>350.567</u>	<u>590</u>



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