

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

NOTICE OF GAS CONNECTION

DATE January 15, 1962

This is to notify the Oil Conservation Commission that connection for
the purchase of gas from the Southern Union Production, Rawson,
Operator Lease
1, (A) 35 31 12, Basin Dakota, Southern Union Gathering,
Well Unit, S. T. R., Pool, Name of Purchaser
2-26-62

was made on January 12, 1962

Initial Potential 2844



SOUTHERN UNION GATHERING COMPANY
Purchaser

[Signature]
Representative

Dispatchers Superintendent
Title

cc: To operator
Oil Conservation Commission - Santa Fe

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 Basin Dakota Formation Dakota County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed _____
Operator Southern Union Prod. Co. Lease Rawson Well No. 1
Unit A Sec. 35 Twp. 31 N Rge. 12 W Pay Zone: From 6766 To 6875
Casing: OD 5 1/2 WT. 15.5 Set At 6971 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 6750
Produced Through: Casing _____ Tubing II Gas Gravity: Measured .720 Estimated _____
Date of Flow Test: From 2-1-62 To 2-9-62 * Date S.I.P. Measured 2-16-62
Meter Run Size 1.026 Orifice Size 1.625 Type Chart 1-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 673 psig + 12 = 685 psia (a)
Flowing tubing pressure (Dwt) 551 psig + 12 = 563 psia (b)
Flowing meter pressure (Dwt) 517 psig + 12 = 529 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.5)² x spring constant 10 = 563 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 _____ = 7 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.4)² x sp. const. 10 = 518 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 514 psia (h)
P_t = (h) + (f) _____ = 521 psia (i)
Wellhead casing shut-in pressure (Dwt) 1360 psig + 12 = 1372 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1348 psig + 12 = 1360 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1360 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 _____ = 538 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 680 psia (n)

FLOW RATE CALCULATION

Q = 516 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{23.643}{23.728} = .9964 \right) = \underline{514} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 514 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75} = \underline{476} MCF/da.
 $\left[\frac{1387200}{1538992} \right]^{.75} = (.9014)$$

SUMMARY

P_c = 1360 psia Company Southern Union Prod. Co.
Q = 514 Mcf/day By Verne Rockhold Original Signed By _____
P_w = 557 psia Title Eng. Jr. Engineer VERNE ROCKHOLD
P_d = 680 psia Witnessed by Val Ripper
D = 476 Mcf/day Company Southern Union Prod. Co.

- * 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
4974	.300	23.358	7.007	303.601	310.608	557



