

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 Tropicite Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Southern Union Gas Company Date Test Filed 3/28/56

Operator Southern Union Gas Company Lease Jicarilla Well No. 2-A
Unit N Sec. 14 Twp. 26-N Rge. 4-W Pay Zone: From 3554 To 3608
Casing: OD 7" WT. 20# Set At 3557 Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3575
Produced Through: Casing _____ Tubing XX Gas Gravity: Measured _____ Estimated .660
Date of Flow Test: From 2/29/56 To 3/8/56 * Date S.I.P. Measured 5/5/54
Meter Run Size 4" Orifice Size 1 1/2" 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: _____ = _____ psi (f)
(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 550 psig + 12 = 562 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 562 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 562 psia (h)
P_t = (h) + (f) _____ = 562 psia (i)
Wellhead casing shut-in pressure (Dwt) 1048 psig + 12 = 1060 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1048 psig + 12 = 1060 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1060 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 530 psia (n)

Q = 1462 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \text{None} \right)$ = 1462 MCF/da
(Integrated) $\sqrt{(d)}$

D = Q 1462 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ $\frac{0.85 (1.0834)^N}{1.0725}$ 1561 ✓
842,700 776,106 1.0676 = 1568 MCF/da.

SUMMARY
P_c = 1060 psia
Q = 1462 Mcf/day
P_w = 588 589.5 psia
P_d = 530 psia
D = 1568 Mcf/day
Company Southern Union Gas Company
By L. E. Muehling
Title Jr. Petroleum 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
2360	0.150	211.0	31.65	315.844	347.494	<u>589.5</u>



OK

OIL CONSERVATION COMMISSION		
AGENT FIELD OFFICE		
By Order of	3	
Special Agent		
Investigator		
Inspector	/	
Assistant Inspector		
Assistant Inspector	/	
Inspector		
Inspector	/	✓
Inspector		