

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 Empire 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. 1-A
Unit K Sec. 23 Twp. 26-N Rge. 4-W Pay Zone: From 3504 To 3524
Casing: OD 7" WT. 23 1/2 Set At 4520 Tubing: OD 2.875 WT. 6.5 T. Perf. 3534
Produced Through: Casing _____ Tubing IX Gas Gravity: Measured _____ Estimated .660
Date of Flow Test: From 2-29-56 To 3-8-56 * Date S.I.P. Measured June 9, 1954
Meter Run Size 4" Orifice Size 1-3/4" Type Char. 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 774 psig + 12 = 786 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 786 psia (h)
P_t = (h) + (f) = 786 psia (i)
Wellhead casing shut-in pressure (Dwt) 1068 psig + 12 = 1080 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1082 psig + 12 = 1094 psia (k)
P_c = (j) or (k) whichever well flowed through = 1094 psia (l)
Flowing Temp. (Meter Run) _____ 71 °F + 460 = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 547 psia (n)

Q = 1438 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \text{None} \right) = \text{None}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION
D = Q 1438 $\left[\frac{(P_c^2 - P_d^2) = 897,627}{(P_c^2 - P_w^2) = 842,910} \right]^{0.85} \times 1.0549 = \text{1517}$ MCF/da.

SUMMARY
P_c = 1094 psia Company Southern Union Gas Company
Q = 1438 Mcf/day By J. S. Macmillan, Jr.
P_w = 594.5 psia Title Jr. Petroleum Engineer
P_d = 547 psia Witnessed by _____
D = 1517 Mcf/day 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>2332</u>	<u>0.148</u>	<u>71.15</u>	<u>10.53</u>	<u>343.396</u>	<u>353.926</u>	<u>594.5</u>

OK



OIL CONSERVATION COMMISSION

AGRIC DISTRICT OFFICE

No. of ...

3

DISTRIBUTION

...		
...	1	
...		
...		
...	1	
Transporter		
File	1	✓