

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 Ballard Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed 3-20-56

Operator Southern Union Gas Company Lease Hodges Well No. 4
Unit 6 Sec. 27 Twp. 26-N Rge. 8-W Pay Zone: From 2617' To 2737'
Casing: OD 5 1/2" WT. 15.5# Set At 2617' Tubing: OD 1" WT. 1.7# T. Perf. _____
Produced Through: Casing XX Tubing _____ Gas Gravity: Measured _____ Estimated .660
Date of Flow Test: From 1-24-56 To 1-31-56 * Date S.I.P. Measured 1-5-55
Meter Run Size 4" Orifice Size 5/8" Type Chart Normal Type Taps Flanges

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 160 psig + 12 = 172 psia (g)
Square root chart average reading (_____)² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 172 psia (h)
P_t = (h) + (f) _____ = 172 psia (i)
Wellhead casing shut-in pressure (Dwt) 636 psig + 12 = 648 psia (j)
Wellhead tubing shut-in pressure (Dwt) 636 psig + 12 = 648 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 324 psia (n)

Q = 103 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{None}} \right)^* = \underline{103}$ MCF/da
(integrated) $\sqrt{(d)}$

DELIVERABILITY CALCULATION
D = Q 103 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{0.85} = \underline{86}$ MCF/da.
 $\frac{314,928}{390,320}$ $\frac{.83324}{.83324}$

SUMMARY
P_c = 648 psia
Q = 103 Mcf/day
P_w = 172 psia
P_d = 324 psia
D = 86 Mcf/day
Company Southern Union Gas Company
By L. S. Muennink
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
Friction Loss Negligible						

OK



OIL CONSERVATION COMMISSION	
NIZEC DISTRICT OFFICE	
No. 00143	3
DATE	
TIME	
LOCATION	1
REMARKS	
DATE	1
U.S.O. 5	
Transporter	1
File	✓