

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 Tapacito Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Southern Union Gas Co. Date Test Filed _____
Operator Southern Union Prod. Co. Lease McCroden Well No. 2-A
Unit 0 Sec. 9 Twp. 25-N Rge. 3-W Pay Zone: From 3714 To 3714
Casing: OD 4-1/2 WT. 9.5 Set At 3815 Tubing: OD 1-1/2 WT. 2.9 T. Perf. 3635
Produced Through: Casing _____ Tubing XX Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 1-27-62 To 2-3-62 * Date S.I.P. Measured 2-10-62
Meter Run Size 4.026 Orifice Size 1.500 Type Chart 1-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 691 psig + 12 = 703 psia (a)
Flowing tubing pressure (Dwt) 565 psig + 12 = 577 psia (b)
Flowing meter pressure (Dwt) 561 psig + 12 = 573 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.6)² x spring constant 10. = 578 psia (d)
Meter error (c) - (d) or (d) - (c) ± _____ = - 5 psi (e)
Friction loss, Flowing column to meter: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = + 4 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.6)² x sp. const. 10 = 578 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 573 psia (h)
_____ = 577 psia (i)
P_t = (h) + (f) _____ = 577 psia (j)
Wellhead casing shut-in pressure (Dwt) 704 psig + 12 = 716 psia (k)
Wellhead tubing shut-in pressure (Dwt) 704 psig + 12 = 716 psia (l)
P_c = (j) or (k) whichever well flowed through _____ = 716 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 358 psia (n)

Q = 1780 X $\left(\frac{\sqrt{(c)} = \underline{23.937} = \underline{.9956}}{\sqrt{(d)} = \underline{24.042}} \right)^* = \underline{1772} MCF/da
(Integrated)$

DELIVERABILITY CALCULATION

D = Q 1772 $\left[\frac{(P_c^2 - P_d^2) = \underline{384492}}{(P_c^2 - P_w^2) = \underline{37658}} \right]^n \frac{.85}{(10.2101)} = \underline{12769} MCF/da.$

SUMMARY

P_c = 716 psia
Q = 1772 Mcf/day
P_w = 689 psia
P_d = 358 psia
D = 12769 Mcf/day

Company Southern Union Prod. Co.
By Verne Rockhold Original Signed By _____
Title Jr. Engineer VERNE ROCKHOLD
Witnessed by Verne Rockhold
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 l)	P _t ² + R ²	P _w
2508	.167	850.714	142.069	332.929	474.998	689



