

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)

CORRECTED COPIES.

Pool South Blanco P.C. P.C. Formation Picture Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 1-22-59

Operator James E. Rogers Lease Schnitz Well No. 1
Unit A Sec. 16 Twp. 25N Rge. 3W Pay Zone: From 3732 To 3740
Casing: OD 5 1/2 WT. 14.00 Set At 3789 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 3755
Produced Through: Casing Tubing X Gas Gravity: Measured .642 Estimated
Date of Flow Test: From 1-1-59 To 1-7-59 * Date S.I.P. Measured 1-14-59
Meter Run Size 4" Orifice Size 2.000 Type Chart Sq. Rt. Type Taps

OBSERVED DATA

Flowing casing pressure (Dwt) 555 psig + 12 = 567 psia (a)
Flowing tubing pressure (Dwt) 375 psig + 12 = 387 psia (b)
Flowing meter pressure (Dwt) 366 psig + 12 = 378 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 8.70 psig + 12 = 378 psia (d)
Square root chart reading (8.70)² x spring constant 500 = 378 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 0 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 9 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 8.80 psig + 12 = 387 psia (g)
Square root chart average reading (8.80)² x sp. const. 500 = 387 psia (g)
Corrected seven day avgr. meter press. (p_f) (g) + (e) = 396 psia (h)
P_t = (h) + (f) = 396 psia (i)
Wellhead casing shut-in pressure (Dwt) 942 psig + 12 = 954 psia (j)
Wellhead tubing shut-in pressure (Dwt) 942 psig + 12 = 954 psia (k)
P_c = (j) or (k) whichever well flowed through = 954 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 477 psia (n)

Q = 2743 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{19.44}{\sqrt{(d)}} = \frac{19.44}{19.44} \right)^* = \underline{2743} \text{ MCF/day}$
(Integrated)

D = Q 2743 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{682587}{646215} \right]^n \cdot .85 \cdot 1.0475 = \underline{2873} \text{ MCF/day}$

SUMMARY

P_c = 954 psia
Q = 2743 Mcf/day
P_w = 514 psia
P_d = 477 psia
D = 2873 Mcf/day

Company Well Production Co.
By N.A. Neely
Title Agent
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	F ₁ ² (Column 1)	DIST. P ₃ ² + R ₂ ²	P _w
2411	.161	665.124	107.085	156.816	263.901	514

RECEIVED
JAN 22 1959
OIL CON. COM.
DIST. P₃² + R₂²

