

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 Fletcher-Pats Formation Fruitland County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-10-57
Operator PURCO PETROLEUM CORPORATION Lease State Well No. 25
Unit N Sec. 36 Twp. 29N Rge. 11W Pay Zone: From 1667 To 1684
Casing: OD 5 1/2 WT. 14 Set At 1841gr Tubing: OD 1" WT. 1.7 T. Perf. 1668
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .655 Estimated _____
Date of Flow Test: From 12-15-56 To 12-22-56 Date S.I.P. Measured 12-29-56
Meter Run Size 4" Orifice Size 3/8 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 215 psig + 12 = 227 psia (a)
Flowing tubing pressure (Dwt) 203 psig + 12 = 215 psia (b)
Flowing meter pressure (Dwt) 203 psig + 12 = 215 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (6.55)² x spring constant 5 = 215 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 = 0 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.45)² x sp. const. 5 = 208 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 208 psia (h)
P_t = (h) + (f) = 208 psia (i)
Wellhead casing shut-in pressure (Dwt) 516 psig + 12 = 528 psia (j)
Wellhead tubing shut-in pressure (Dwt) 516 psig + 12 = 528 psia (k)
P_c = (j) or (k) whichever well flowed through = 528 psia (l)
Flowing Temp. (Meter Run) 29 °F + 460 = 489 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 264 psia (n)

FLOW RATE CALCULATION

Q = 17 (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \frac{17}{1.00} = 17$ MCF/day

DELIVERABILITY CALCULATION

D = Q 17 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{209088}{235464}^{.85(9039)} = \frac{15}{.88798} = 15$ MCF/day

SUMMARY

P_c = 528 psia
Q = 17 Mcf/day
P_w = 208 psia
P_d = 264 psia
D = 15 Mcf/day

Company Purco Petroleum Corporation
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Witnessed by H. L. Siskinger
Company Purco Petroleum Corp.

- * 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
1093	.076	0.734	.056	43,264	43,320	208

