

Initial Deliverability
TestForm C-122-A
Revised April 20, 1955NEW 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 Undesignated Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 10-24-61
Operator PURCO PETROLEUM CORP. Lease Federal Well No. 6-2-4
Unit B Sec. 6 Twp. 29N Rge. 11W Pay Zone: From 3695 To 3795
Casing: OD 5 1/2" WT. 15 1/2 Set At 6673 Tubing: OD 2" WT. 4.7 T. Perf. 3700
Produced Through: Casing X Tubing Gas Gravity: Measured .707 Estimated
Date of Flow Test: From 9-20-61 To 9-28-61 * Date S.I.P. Measured 10-24-61 5-16-61
Meter Run Size 4" Orifice Size 2.750 Type Chart 29. 20. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 1012 psig + 12 = 1024 psia (a)
Flowing tubing pressure (Dwt) 888 psig + 12 = psia (b)
Flowing meter pressure (Dwt) 482 psig + 12 = 494 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading psig + 12 = psia (d)
Square root chart reading (7.15)² x spring constant 10 = 511 psia (d)
Meter error (c) - (d) or (d) - (c) = -17 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 530 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = psia (g)
Square root chart average reading (7.15)² x sp. const. 10 = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 494 psia (h)
P_t = (h) + (f) = 1024 psia (i)
Wellhead casing shut-in pressure (Dwt) 1400 psig + 12 = 1412 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = psia (k)
P_c = (j) or (k) whichever well flowed through = 1412 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 706 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{8807}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} \frac{494}{22.2261} = 0.9832}{\sqrt{(d)} \frac{511}{22.6053}} \right) = 8266 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

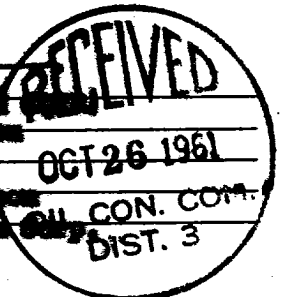
$$D = Q \frac{8266}{\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{1,495,308}{911,129} \right]^n (1.6412)^{75} 1.451} = 11,993 \text{ MCF/day}$$

SUMMARY

P_c = 1,412 psia
Q = 8,266 Mcf/day
P_w = 1,040 psia
P_d = 706 psia
D = 11,993 Mcf/day

"B" at 512 = 13.357

Company PURCO PETROLEUM CORP.
By Don E. Jaramila
Title Field Foreman
Witnessed by Don E. Jaramila
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
8216	0.173	196.757	34.039		1,048,576	1,082,615	1040

1-5 24 72

1-5 24 72