

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 Basin Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-30-62Operator PURCO PETROLEUM CORP Lease State Well No. 30
Unit I Sec. 36 Twp. 30 N Rge. 12W Pay Zone: From 6468 To 6530
Casing: OD 5 1/2 WT. 15 1/2 Set At 6645 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 6506
Produced Through: Casing I Tubing I Gas Gravity: Measured .702 Estimated
Date of Flow Test: From 12-21-61 To 12-28-61 * Date S.I.P. Measured 7-21-61
Meter Run Size 4" Orifice Size 1.250 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 797 psig + 12 = 799 psia (a)
Flowing tubing pressure (Dwt) 601 psig + 12 = 613 psia (b)
Flowing meter pressure (Dwt) 483 psig + 12 = 495 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 10 psig + 12 = 497 psia (d)
Square root chart reading (7.05)² x spring constant 10 = 495 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 2 psi (e)
Friction loss, Flowing column to meter: 118 psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading 10 psig + 12 = 497 psia (g)
Square root chart average reading (7.05)² x sp. const. 10 = 495 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 613 psia (h)
P_t = (h) + (f) = 731 psia (i)
Wellhead casing shut-in pressure (Dwt) 2022 psig + 12 = 2034 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1375 psig + 12 = 1387 psia (k)
P_c = (j) or (k) whichever well flowed through 84 °F + 460 = 544 °Abs (l)
Flowing Temp. (Meter Run) 84 °F + 460 = 544 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 694 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{695}{(\text{Integrated})} \times \left(\frac{\sqrt{495} = 22.24860}{\sqrt{497} = 22.29350} \right) = 694 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{694}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75}} = 662 \text{ MCF/day}$$

"P" at 512 = 644

SUMMARY

P_c = 1387 psia
Q = 694 Mcf/day
P_w = 613 psia
P_d = 694 psia
D = 662 Mcf/day

Company PURCO PETROLEUM CORP.
By Don E. Jamieson
Title Field Foreman
Witnessed by Don E. Jamieson
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
4567	0.983	42,576	12,049	373,769	387,818	623



