

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 Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-14-64

Operator PAN AMERICAN PETROLEUM CORP. Lease Bruington Gas Unit Well No. 1
Unit E Sec. 14 Twp. 29N Rge. 11W Pay Zone: From 6338 To 6344
Casing: OD 4-1/2 WT. 10.5 Set At 4.852 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6318
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .704 Estimated _____
Date of Flow Test: From 3-18-64 To 3-18-64 * Date S.I.P. Measured 6-11-62
Meter Run Size 4" Orifice Size 1.500 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (3.03) ² x sp. const. 10 _____ = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 497 psia (h)
P_t = (h) + (f) _____ = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) 1974 psig + 12 = 1986 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1982 psig + 12 = 1994 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1994 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 997 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ } \underline{999} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \text{ } \underline{.8497} = \underline{849} \text{ MCF/da.}$$

SUMMARY

P_c = 1994 psia
Q = 999 Mcf/day
P_w = 321 psia
P_d = 997 psia
D = 849 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Roberts
Title District Engineer
Witnessed by By
Company F. W. Powell

* 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
<u>4448</u>	<u>.276</u>	<u>88.221</u>	<u>24.349</u>	<u>247.009</u>	<u>271.358</u>	<u>321</u>

