

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)

Pool Basin Formation Dakota County San Juan
 Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-4-66
 Operator Pan American Petroleum Corp. Lease McCoy Gas Com "D" Well No. 1
 Unit H Sec. 28 Twp. 30 Rge. 12 Pay Zone: From 6070 To 6238
 Casing: OD 4 1/2 WT. 10.5 Set At 6298 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6041
 Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____
 Date of Flow Test: From 11-29-65 To 12-7-65 * Date S.I.P. Measured 8-23-65
 Meter Run Size 4" Orifice Size _____ 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 (7.35)² x sp. const. _____ = 540 psia (g)
 Corrected seven day avge. meter press. (p_f) (g) + (e) = 540 psia (h)
 P_t = (h) + (f) = 540 psia (i)
 Wellhead casing shut-in pressure (Dwt) 1874 psig + 12 = 1886 psia (j)
 Wellhead tubing shut-in pressure (Dwt) 1898 psig + 12 = 1910 psia (k)
 P_c = (j) or (k) whichever well flowed through = 1910 psia (l)
 Flowing Temp. (Meter Run) _____ °F + 460 = _____ °Abs (m)
 P_d = 1/2 P_c = 1/2 (l) = 955 psia (n)

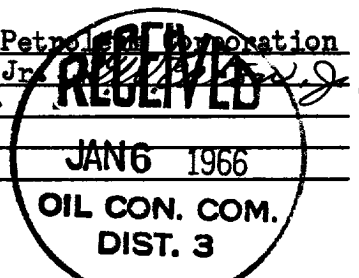
Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^2 = \text{_____ MCF/da}$

DELIVERABILITY CALCULATION
 D = Q 903 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{2,736,075}{3,337,759} \cdot .8615 = \frac{778}{\text{MCF/da}}$

SUMMARY

P _c =	<u>1910</u>	psia
Q =	<u>903</u>	Mcf/day
P _w =	<u>557</u>	psia
P _d =	<u>955</u>	psia
D =	<u>778</u>	Mcf/day

Company Pan American Petroleum Corporation
 By G. W. Eaton, Jr.
 Title Area Engineer
 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	P _t ² (Column i)	P _t ² + R ²	P _w
<u>4138</u>	<u>0.260</u>	<u>72.080</u>	<u>18.741</u>	<u>291.600</u>	<u>310,341</u>	<u>557</u>

