Initial Deliverability Test

Form C-122-A
Revised April 20, 1955

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 4-2-65

Operator PAN AMERICAN PETROLEUM CORP. Lease J. C. Gordon "B" Well No. 4

Unit P Sec. 23 Twp. 27N Rge. 10W Pay Zone: From 6515 To 6637

Casing: OD 4-1/2 WT. 10.5 Set At 6713 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6501

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .690 Estimated ____

Date of Flow Test: From 3-12-65 To 3-20-65 * Date S.I.P. Measured 9-1-64

Meter Run Size 4" Orifice Size 1.250 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 (6.8) ^{2} x sp. const. ____ = 462	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 462	psia	(h)
P_t = (h) + (f) = 462	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1949 psig + 12 = 1961	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1950 psig + 12 = 1962	psia	(k)
P_c = (j) or (k) whichever well flowed through = 1962	psia	(l)
Flowing Temp. (Meter Run) ____ °F + 460 = ____	°Abs	(m)
P_d = ½ P_c = ½ (l) = 981	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 611 \left[\frac{2,887,083}{3,626,826} \right]^{.8427} = 515 \text{ MCF/da.}$$

SUMMARY

P_c =	1962	psia
Q =	611	Mcf/day
P_w =	472	psia
P_d =	981	psia
D =	515	Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Ribera
Title District Engineer
Witnessed by By: Orginal Signed By G. W. EATON, JR.
Company

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DIST. 3

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
4486	.278	33.001	9.174	213.444	222,618	472