Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, P CTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool Ashto-Pictured Cliffs Formation Pictured Cliffs County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 5-26-58

Operator PAN AMERICAN PETROLEUM CORP. Lease Haney Gas Unit Well No. 1

Unit M Sec. 20 Twp. 29N Rge. 10W Pay Zone: From 1745 To 1760

Casing: OD 5-1/2 WT. 14 Set At 1819 Tubing: OD 1.66 WT. 2.3 T. Perf. 1749

Produced Through: Casing I Tubing Gas Gravity: Measured 0.652* Estimated

Date of Flow Test: From 4-15-58 To 4-21-58 * Date S.I.P. Measured 12-14-57

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 (7.50*) ^{2} x sp. const. 5	= 281	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 281	psia	(h)
P_t = (h) + (f)	= 281	psia	(i)
Wellhead casing shut-in pressure (Dwt) 641	psig + 12 = 653	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 641	psig + 12 = 653	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 653	psia	(l)
Flowing Temp. (Meter Run) 48° °F + 460	= 508	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 327	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \text{ 201*} \left[\left\{ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right\} = \frac{319,480}{347,448} \right]^{n} \text{ 0.9311} = \text{194 MCF/da.}$$

SUMMARY

P_c =	653	psia
Q =	201*	Mcf/day
P_w =	281	psia
P_d =	327	psia
D =	194	Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By E. K. Bauer, Jr.
Title Field Engineer
Witnessed by
Company

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MAY 29 1958
OIL CON. COM.
DIST. 3

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
	Friction loss negligible					

*Furnished by pipeline company

Note: INITIAL DELIVERABILITY TEST is filed on blue form C-122-A due to producing difficulties on the subject well.