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, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool Blanco-Pictured Cliffs Formation Pictured Cliffs County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 7-25-58

Operator PAN AMERICAN PETROLEUM CORP. Lease Archuleta Gas Unit "A" Well No. 2

Unit I Sec. 5 Twp. 29N Rge. 9W Pay Zone: From 2342 To 2394

Casing: OD 5-1/2" WT. 14# Set At 2364 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2373

Produced Through: Casing X Tubing Gas Gravity: Measured 0.660* Estimated

Date of Flow Test: From 6-23-58 To 6-29-58 * Date S.I.P. Measured 6-24-57

Meter Run Size 4 Orifice Size 1.500 Type Chart [illegible] 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 (7.10*) ^{2} x sp. const. 5	=	252	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	252	psia	(h)
P_t = (h) + (f)	=	252	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1041	psig + 12 =	1053	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =		psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1053	psia	(l)
Flowing Temp. (Meter Run) 64* °F + 460	=	524	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	527	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

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{831,080}{1,045,305} \right]^{n} = 0.823 = 260 \text{ MCF/da.}$$

SUMMARY

P_c =	1053 psia	Company	PAN AMERICAN PETROLEUM CORPORATION
Q =	326 Mcf/day	By	K. M. Bauer, Jr.
P_w =	252 psia	Title	Field Engineer
P_d =	527 psia	Witnessed by	
D =	260 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

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

*Furnished by pipeline company.

INITIAL DELIVERABILITY TEST

RECEIVED
JUL 29 1958
OIL CON. COM.
DIST. 3