Initial Deliverability Test

Form C-122-A
Revised April [illegible]

RECEIVED
APR 17 1959
OIL CON. COM.
DIST. 3

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 Ambo-Pictured Cliffs Formation Pictured Cliffs County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-16-59

Operator PAN AMERICAN PETROLEUM CORP. Lease State of N. Mex. Gas Unit "T" Well No. 1

Unit L Sec. 36 Twp. 29N Rge. 9W Pay Zone: From 2081 To 2215

Casing: OD 4-1/2 WT. 9.5 Set At 2155 Tubing: OD 1.66 WT. 2.3 T. Perf. 2084

Produced Through: Casing X Tubing Gas Gravity: Measured 0.650* Estimated

Date of Flow Test: From 3-22-59 To 3-10-59 * Date S.I.P. Measured 3-13-59

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 (7.35*) ^{2} x sp. const. 5	= 270	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 270	psia	(h)
P_t = (h) + (f)	= 270	psia	(i)
Wellhead casing shut-in pressure (Dwt) 857	psig + 12 = 869	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 = 869	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 869	psia	(l)
Flowing Temp. (Meter Run) 58* °F + 460	= 518	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 434	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q\ 412^* \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{765,976}{682,241} \right]^n \ 0.853 = 351 \text{ MCF/da.}$$

SUMMARY

P_c =	869 psia	Company	PAN AMERICAN PETROLEUM CORPORATION
Q =	412* Mcf/day	By	R. H. Dance, Jr.
P_w =	270 psia	Title	Field Engineer
P_d =	434 psia	Witnessed by	
D =	351 Mcf/day	Company	

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

*Furnished by pipeline company

REMARKS OR FRICTION CALCULATIONS

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

INITIAL DELIVERABILITY TEST