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 January 25, 1960

Operator Pan American Petroleum Corp. Lease Likins Gas Unit #1 Well No. 2

Unit J Sec. 34 Twp. 30N Rge. 9W Pay Zone: From 2405 To 2436

Casing: OD 4-1/2 WT. 9.5 Set At 2495 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2404

Produced Through: Casing X Tubing Gas Gravity: Measured 0.655* Estimated

Date of Flow Test: From 1-1-60 To 1-6-60 * Date S.I.P. Measured 9-16-59

Meter Run Size 4 Orifice Size 2.250* 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 (7.59*) ^{2} x sp. const. 5	= 288	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 281	psia	(h)
P_t = (h) + (f)	= 282	psia	(i)
Wellhead casing shut-in pressure (Dwt) 930	psig + 12 = 942	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 930	psig + 12 = 942	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 942	psia	(l)
Flowing Temp. (Meter Run) 72* °F + 460	= 532	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 471	psia	(n)

FLOW RATE CALCULATION

Q = _____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad\right)^n$ = _____ MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{665,523}{808,403}\right]^n$ 0.8475 = 2039 MCF/da.

SUMMARY

P_c =	942 psia	Company	Pan American Petroleum Corporation
Q =	2406* Mcf/day	By	R. H. Dawe, Jr.
P_w =	281 psia	Title	Area Engineer
P_d =	471 psia	Witnessed by	
D =	2039 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

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

*Furnished by pipeline company.

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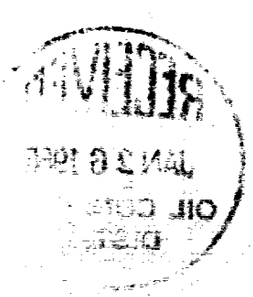
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