Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION

CORRECTED COPY

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 Mesa-Mesaverde Formation Mesaverde County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 3-22-63

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

Unit I Sec. 21 Twp. 30N Rge. 12W Pay Zone: From 5395 To 5644

Casing: OD 4-1/2 WT. 9.5 Set At 5636 Tubing: OD 2-3/8 WT. 4.7 T. Perf. Open ended 5593

Produced Through: Casing ^ Tubing X Gas Gravity: Measured .717 Estimated

Date of Flow Test: From To * Date S.I.P. Measured 3-3-62

Meter Run Size 4" Orifice Size 1.000 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 (6.60) ^{2} x sp. const. 10	= 436	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	psia	(h)
P_t = (h) + (f)	= 436	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1260	psig + 12 = 1321	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1226	psig + 12 = 1238	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1238	psia	(l)
Flowing Temp. (Meter Run) °F + 460	=	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 619	psia	(n)

FLOW RATE CALCULATION

Q = 233 (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^*$ = 233 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2 = 1,140,483}{P_c^2 - P_w^2 = 1,342,146} \right]^n$ 0.8901 = 207 MCF/da.

SUMMARY

P_c =	1238 psia	Company	PAN AMERICAN PETROLEUM CORPORATION
Q =	233 Mcf/day	By	F. W. Snell
P_w =	436 psia	Title	Petroleum Engineer
P_d =	619 psia	Witnessed by	
D =	207 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

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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					

CORRECTED COPY

$P_d = 50\% P_c$