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 Basin Dakota Formation Dakota County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 5-25-64

Operator PAN AMERICAN PETROLEUM CORP. Lease John Schumacher Well No. 1

Unit M Sec. 8 Twp. 30N Rge. 12W Pay Zone: From 6530 To 6686

Casing: OD 4-1/2 WT. 10.5 Set At 6734 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6534

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .672 Estimated ____

Date of Flow Test: From 4-16-64 To 4-26-64 * Date S.I.P. Measured 3-26-64

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. 10	= 340	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 340	psia	(h)
P_t = (h) + (f)	= 340	psia	(i)
Wellhead casing shut-in pressure (Dwt) 2072	psig + 12 = 2084	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 2072	psig + 12 = 2084	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 2084	psia	(l)
Flowing Temp. (Meter Run) ____ °F + 460	=	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 1042	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{3,257,292}{4,032,895} \right]^{n} = 877 \times .8520 = 747 \text{ MCF/da.}$$

SUMMARY

P_c =	2084	psia	
Q =	877	Mcf/day	
P_w =	357	psia	
P_d =	1042	psia	
D =	747	Mcf/day	

Company PAN AMERICAN PETROLEUM CORPORATION

By F. L. Roberts

Title District Engineer

Witnessed by Byt ORIGINAL SIGNED BY F. W. Foell

Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
4391	.273	67,900	18,561	291,600	310,161	357

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MAY 26 1964
OIL CON. COM.