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 5-6-64

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

Unit B Sec. 21 Twp. 29N Rge. 13W Pay Zone: From 6156 To 6324

Casing: OD 4-1/2 WT. 10.5 Set At 6324 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6301

Produced Through: Casing ~~Tubing~~ Tubing X Gas Gravity: Measured .650 Estimated

Date of Flow Test: From 3-30-64 To 4-7-64 * Date S.I.P. Measured 3-19-64

Meter Run Size 4" Orifice Size 1.906 Type Chart Pig. Rec. 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. 20 = 1006 psia			(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		= 1006 psia	(h)
P_t = (h) + (f)		= 1006 psia	(i)
Wellhead casing shut-in pressure (Dwt) 2026 psig + 12 = 2038 psia			(j)
Wellhead tubing shut-in pressure (Dwt) 2023 psig + 12 = 2035 psia			(k)
P_c = (j) or (k) whichever well flowed through		= 2038 psia	(l)
Flowing Temp. (Meter Run) ____ °F + 460		= ____ °Abs	(m)
P_d = ½ P_c = ½ (l)		= 1019 psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{3,345,728}{3,272,945} \right]^n$ .8459 = 483 MCF/da.

SUMMARY

P_c = 2038	psia	
Q = 573	Mcf/day	
P_w = 511	psia	
P_d = 1006	psia	
D = 483	Mcf/day	

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Kilvington
Title Natural Engineer
Witnessed by ORIGINAL SIGNED BY F. M. Pool
Company

RECEIVED
MAY 8 1964
OIL CON. COM.
DIST. 3

• 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
4813	.253	59,023	7,343	1,034,036	1,041,379	511

DELIVERABILITY CALCULATION

$$D = Q \_\_\_\_\_ \left[\frac{\left(P_c^2 - P_d^2\right)^n}{\left(P_c^2 - P_w^2\right)^n} \right] = \_\_\_\_\_ = \_\_\_\_\_ \text{ MCF/day}$$

SUMMARY

P_c = _____ psia

Q = _____ Mcf/day

P_w = _____ psia

P_d = _____ psia

D = _____ Mcf/day

Company _____

By _____

Title _____

Witnessed by _____

Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(P_c Q)^2$	$(P_c Q)^2 (1-e^{-s})$ / R^2	P_t^2 (Column i)	$P_t^2 + R^2$	P_w