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 Undesignated Formation Dakota County S.J.

Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed February 26, 1960

Operator El Paso Natural Gas Products Co. Lease Frontier Well No. 3-C

Unit E Sec. 5 Twp. 27N Rge. 11W Pay Zone: From 6368 To 6471

Casing: OD 5.50 WT. 17.00 Set At 6664 Tubing: OD 2-3/8 WT. 4.70 T. Perf. 6435

Produced Through: Casing ____ Tubing X Gas Gravity: Measured 0.673 Estimated ____

Date of Flow Test: From 1-22-60 To 1-30-60 * Date S.I.P. Measured 10-23-59

Meter Run Size 4" Orifice Size 1.750 Type Chart S.R. Type Taps Flange

GAS LIQUID 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 (7.30)^2 x sp. const. 10	=	533 psia	(g)
Corrected seven day avge. meter press. (P_t) (g) + (e)	=	533 psia	(h)
P_t = (h) + (f)	=	533 psia	(i)
Wellhead casing shut-in pressure (Dwt) 2041	psig + 12 =	2053 psia	(j)
Wellhead tubing shut-in pressure (Dwt) 2053	psig + 12 =	2065 psia	(k)
P_c = (j) or (k) whichever well flowed through	=	2065 psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	=	520 °Abs	(m)
P_d = ½ P_c = ½ (l)	=	1032 psia	(n)

FLOW RATE CALCULATION

Q = 1,477 (integrated) $\times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^n$ = 1,477 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{3,199,000}{3,928,000} \right]^n$ 0.814$^{.75}$ = 1,266 MCF/da.

SUMMARY

P_c =	2065	psia
Q =	1,477	Mcf/day
P_w =	580	psia
P_d =	1032	psia
D =	1,266	Mcf/day

Company El Paso Natural Gas Products Co.

By John J. Strazdas

Title Petroleum Engineer

Witnessed by ____

Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
4331	0.270	192.8	52.0	284,000	336,000	580

$$D_{500} = \left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^N = \left(\frac{4,002,000}{3,980,000} \right)^{0.75} = 1.005^{.75} = 1,482 \text{ MCF/D}$$