Form C-122-A
Revised April 20, 1955

Initial Deliverability Test
70-159

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 Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Riddle Well No. 3-B

Unit K Sec. 23 Twp. 30 Rge. 10 Pay Zone: From 4408 To 5251

Casing: OD 7 WT. 23 Set At 4343 Tubing: OD 2 WT. 4.7 T. Perf. 4408

Produced Through: Casing X Tubing Gas Gravity: Measured .681 Estimated

Date of Flow Test: From 11/7/59 To 11/15/59 * Date S.I.P. Measured 4/14/59

Meter Run Size Orifice Size Type Chart Type Taps

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 6.95 10	psig + 12 = 485	psia	(g)
Square root chart average reading ( ) ^{2} x sp. const.	= 485	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 485	psia	(h)
P_t = (h) + (f)	= 793	psia	(i)
Wellhead casing shut-in pressure (Dwt) 781 663	psig + 12 = 675	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 = 793 +	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	psia	(l)
Flowing Temp. (Meter Run) °F + 460	= 397	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 365 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2 = 471240}{P_c^2 - P_w^2 = 395251} \right]^{n} \frac{1.1983}{1.1453} = 418 \text{ MCF/da.}$$

SUMMARY

P_c = 793	psia	Company El Paso Natural Gas
Q = 365	Mcf/day	By
P_w = 485	psia	Title
P_d = 397	psia	Witnessed by
D = 418	Mcf/day	Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
3002	.196	11.779	2,309	233289	235598	485

D at 500 = 345

+ Use SIPC for P_c. SIPT too low. After Workover.