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 _____ Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Huerfano Unit Well No. 79

Unit A Sec. 31 Twp. 27N Rge. 10W Pay Zone: From 1676 To 1729

Casing: OD 5½ WT. 15.5 Set At 1804 Tubing: OD 1¼ WT. 2.3 T. Perf. 1730

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .635 Estimated _____

Date of Flow Test: From 4/9 To 4/17/57 * Date S.I.P. Measured 9/13/56

Meter Run Size 4 Orifice Size 0.500 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 (6.55)² x sp. const. 500	=	215	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	215	psia	(h)
P_t = (h) + (f)	=	215	psia	(i)
Wellhead casing shut-in pressure (Dwt) 409	psig + 12 =	421	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 409	psig + 12 =	421	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	421	psia	(l)
Flowing Temp. (Meter Run) 56 °F + 460	=	_____	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	211	psia	(n)

FLOW RATE CALCULATION

$$Q = 43 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_ = \_\_\_ \right)^{*} = \_\_\_ \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{132{,}720}{131{,}016} \right]^{n} \frac{1.0130}{1.0110} = 43 \text{ MCF/da.}$$

SUMMARY

P_c =	421 psia	Company	El Paso Natural Gas Company
Q =	43 Mcf/day	By	Original Signed
P_w =	215 psia	Title	Lewis D. Galloway
P_d =	211 psia	Witnessed by	
D =	43 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2}{R^2}$ $(1-e^{-s})$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
			FRICTION NEGLIGIBLE			

D @ 250 = 37

RECEIVED
MAY 2 1957
OIL CON. C
DIST.

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received 3

DISTRIBUTION

	NO. FURNISHED	
Operator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	✓
Transporter		
File	1	