Form C-122-A
Revised April 20, 1955

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 Aztec Pictured Cliff Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed ________

Operator El Paso Natural Gas Co. Lease Morris Well No. 7-A

Unit D Sec. NW23 Twp. 30N Rge. 11W Pay Zone: From 2336 To 2381

Casing: OD 7 WT. 20 Set At 2336 Tubing: OD 1¼ WT. 2.3 T. Perf. 2343

Produced Through: Casing ________ Tubing X Gas Gravity: Measured .645 Estimated ________

Date of Flow Test: From 6/22 To 6/30 * Date S.I.P. Measured 3/20/56

Meter Run Size 4 Orifice Size ________ 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 (6.85) ^{2} x sp. const. 5	=	235	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	235	psia	(h)
P_t = (h) + (f)	=	235	psia	(i)
Wellhead casing shut-in pressure (Dwt) 663	psig + 12 =	675	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 663	psig + 12 =	675	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	675	psia	(l)
Flowing Temp. (Meter Run) 69 °F + 460	=	529	°Abs	(m)
$P_d = ½ P_c = ½$ (l)	=	338	psia	(n)

FLOW RATE CALCULATION

Q = ________ (integrated) X ($\sqrt{(c)}$ / $\sqrt{(d)}$ = ________ = ________) = 1214 MCF/da

DELIVERABILITY CALCULATION

$$D = Q \; 1214 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{341,381}{307,491} \right]^n \frac{1.1102}{1.0937} = 1328 \text{ MCF/da.}$$

SUMMARY

P_c =	675	psia	Company	El Paso Natural Gas Company
Q =	1214	Mcf/day	By	Original Signed
P_w =	385	psia	Title	Lewis D. Galloway
P_d =	338	psia	Witnessed by	
D =	1328	Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e^{-s})	$(F_cQ)^2$	$(FcQ)^2 \; (1-e^{-s})$ / R^2	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
1511	0.104	893,352	92,909	55,225	148,134	385

D @ 250 = 1179

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