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 Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease Stewart Well No. 3

Unit A Sec. 28 Twp. 30 Rge. 10 Pay Zone: From 4580 To 5314

Casing: OD 5½ WT. 15.5 Set At 5330 Tubing: OD 2 WT. 4.7 T. Perf. 5202

Produced Through: Casing ____ Tubing I Gas Gravity: Measured .710 Estimated ____

Date of Flow Test: From 5/16 To 5/23 * Date S.I.P. Measured 3/1/56

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 (7.15)^2 x sp. const. 10	=	511	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	511	psia	(h)
P_t = (h) + (f)	=	511	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1039	psig + 12 =	1051	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1002	psig + 12 =	1014	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1014	psia	(l)
Flowing Temp. (Meter Run) 66 °F + 460	=	526	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	507	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^* = 578 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{771,147}{760,106} \right]^n = 578 \left[\frac{1.0145}{1.0109} \right] = 584 \text{ MCF/da.}$$

SUMMARY

P_c =	1014 psia	Company	El Paso Natural Gas
Q =	578 Mcf/day	By	Original Signed
P_w =	518 psia	Title	Lewis D. Galloway
P_d =	507 psia	Witnessed by	
D =	584 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3693	.236	29,528	6,969	261,121	268,090	518

D @ 500 = 577

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