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 **Undesignated** Formation **Pictured Cliffs** County **San Juan**

Purchasing Pipeline _____ Date Test Filed _____

Operator **El Paso Natural Gas** Lease **Russell** Well No. **No. 1-A**

Unit **J** Sec. **23** Twp. **28N** Rge. **8W** Pay Zone: From **2414** To **2492**

Casing: OD **5-1/2** WT. **15.5** Set At **2517** Tubing: OD **1-1/4** WT. **2.4** T. Perf. **2448**

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

Date of Flow Test: From **2/21/58** To **3/1/58** * Date S.I.P. Measured **1-30-58 (11 days)**

Meter Run Size _____ Orifice Size **1.000** 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	psig + 12 =	psia	(g)
Square root chart average reading (**7.35**)^2 x sp. const. **1000**	= **540**	psia	(g)
Corrected seven day avge. meter press. (P_f) (g) + (e)	= **540**	psia	(h)
P_t = (h) + (f)	= **540**	psia	(i)
Wellhead casing shut-in pressure (Dwt) **1041**	psig + 12 = **1053**	psia	(j)
Wellhead tubing shut-in pressure (Dwt) **1041**	psig + 12 = **1053**	psia	(k)
P_c = (j) or (k) whichever well flowed through	= **1053**	psia	(l)
Flowing Temp. (Meter Run) **61** °F + 460	= **521**	°Abs	(m)
P_d = ½ P_c = ½ (l)	= **527**	psia	(n)

FLOW RATE CALCULATION

Q = _____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad}\right)^*$ = **386** MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{(P_c^2 - P_d^2) = 831080}{(P_c^2 - P_w^2) = 807546}\right]^n \frac{(1.0291)^{*85}}{(1.0246)}$ = **395** MCF/da.

SUMMARY

P_c = **1053** psia
Q = **386** Mcf/day
P_w = **549** psia
P_d = ~~537~~ 527 psia
D = **395** Mcf/day

Company **El Paso Natural Gas**
By Original Signed
Title **Lewis D. Galloway**
Witnessed by _____
Company _____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(FcQ)^2 (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 - R^2$	P_w
1554	.107	90.307	9.663	291.600	301.263	549

D at 250 = 474

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