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 Mesa Verde 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. 5

Unit L Sec. 20 Twp. 30N Rge. 10W Pay Zone: From 4686 To 5074

Casing: OD 7 5½ @ 5175 WT. 20 Set At 2845 Tubing: OD 2 WT. 4.7 T. Perf. 5008

Produced Through: Casing Tubing X Gas Gravity: Measured .7.5 Estimated

Date of Flow Test: From 7/8 To 7/16 * Date S.I.P. Measured 5/3/56

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 (7.00) ^{2} x sp. const. 10	= 490	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 490	psia	(h)
P_t = (h) + (f)	= 490	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1168	psig + 12 = 1180	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1170	psig + 12 = 1182	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1182	psia	(l)
Flowing Temp. (Meter Run) 71 °F + 460	= 531	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 591	psia	(n)

FLOW RATE CALCULATION

Q = (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^*$ = 519 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1,047,843}{1,151,572} \right]^n \frac{.9099}{.9316} = 484$ MCF/da.

SUMMARY

P_c =	1182	psia
Q =	519	Mcf/day
P_w =	496	psia
P_d =	591	psia
D =	484	Mcf/day

Company El Paso Natural Gas Company
By Lewis D. Galloway
Title
Witnessed by
Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3581	.229	23.614	5,453	240,100		496

RECEIVED
AUG 3 1956
OIL CON. COM.
DIST. 3

D @ 500 = 512


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OIL CON. COM.
DIST. 3