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 Newberry Well No. 3

Unit A Sec. NE8 Twp. 31N Rge. 12W Pay Zone: From 4754 To 5001

Casing: OD 5½ WT. 15.50 Set At 5072 Tubing: OD 2 WT. 4.7 T. Perf. 4943

Produced Through: Casing Tubing X Gas Gravity: Measured .715 Estimated

Date of Flow Test: From 6/22 To 6/30 * Date S.I.P. Measured 2/23/56

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 (7.50) ^{2} x sp. const. 10	= 563	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 563	psia	(h)
P_t = (h) + (f)	= 563	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1000	psig + 12 = 1012	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1000	psig + 12 = 1012	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1012	psia	(l)
Flowing Temp. (Meter Run) 88 °F + 460	= 548	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 506	psia	(n)

FLOW RATE CALCULATION

Q = (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^*$ = 1133 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{(P_c^2 - P_d^2) = 768,108}{(P_c^2 - P_w^2) = 681,418} \right]^n$ 1.1272 / 1.0941 = 1240 MCF/da.

SUMMARY

P_c =	1012 psia	Company	El Paso Natural Gas Company
Q =	1133 Mcf/day	By	Original Signed
P_w =	585 psia	Title	
P_d =	506 psia	Witnessed by	Lewis D. Galloway
D =	1240 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
3534	.227	113.465	25,757	316,960	342,726	585

D @ 500 = 1198

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