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 South Blanco PC Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Klein Well No. 4

Unit K Sec. 33 Twp. 26 Rge. 6 Pay Zone: From 2866 To 2922

Casing: OD 5-1/2 WT. 15.5 Set At 3005 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2862

Produced Through: Casing X Tubing Gas Gravity: Measured .654 Estimated

Date of Flow Test: From 12-31-57 To 1-9-58 * Date S.I.P. Measured 6-18-57 (10 days)

Meter Run Size Orifice Size 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 (8.95) ^{2} x sp. const. 5	= 401	psia	(g)
Corrected seven day avge. meter press. (P_f) (g) + (e)	= 401	psia	(h)
P_t = (h) + (f)	= 401	psia	(i)
Wellhead casing shut-in pressure (Dwt) 829	psig + 12 = 841	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 829	psig + 12 = 841	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 841	psia	(l)
Flowing Temp. (Meter Run) 58 °F + 460	= 518	°Abs	(m)
P_d = ½ P_c = ½ (1)	= 421	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 215 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\,215 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{530,040}{546,480} \right]^{n} \quad .9699 \div .9744 = 209 \text{ MCF/da.}$$

SUMMARY

P_c =	841	psia	
Q =	215	Mcf/day	
P_w =	401	psia	
P_d =	421	psia	
D =	209	Mcf/day	

Company El Paso Natural Gas

By

Title

Witnessed by (Initial Signed) Lewis D. Galloway

Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
			FRICTION NEGLIGIBLE			

D at 250 = 245

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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 [illegible] Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed [illegible]

Operator El Paso Natural Gas Lease [illegible] Well No. [illegible]

Unit [illegible] Sec. [illegible] Twp. [illegible] Rge. [illegible] Pay Zone: From [illegible] To [illegible]

Casing: OD [illegible] WT. [illegible] Set At [illegible] Tubing: OD [illegible] WT. [illegible] T. Perf. [illegible]

Produced Through: Casing [illegible] Tubing [illegible] Gas Gravity: Measured [illegible] Estimated [illegible]

Date of Flow Test: From [illegible] To [illegible] * Date S.I.P. Measured [illegible]

Meter Run Size [illegible] Orifice Size [illegible] Type Chart [illegible] Type Taps [illegible]

OBSERVED DATA

Flowing casing pressure (Dwt) [illegible] psig + 12 = [illegible] psia (a)

Flowing tubing pressure (Dwt) [illegible] psig + 12 = [illegible] psia (b)

Flowing meter pressure (Dwt) [illegible] psig + 12 = [illegible] psia (c)

Flowing meter pressure (meter reading when Dwt. measurement taken):

Normal chart reading [illegible] psig + 12 = [illegible] psia (d)

Square root chart reading ([illegible])² x spring constant [illegible] = [illegible] psia (d)

Meter error (c) - (d) or (d) - (c) ± [illegible] Psi (e)

Friction loss, Flowing column to meter:

(b) - (c) Flow through tubing; (a) - (c) Flow through casing = [illegible] Psi (f)

Seven day average static meter pressure (from meter chart):

Normal chart average reading [illegible] psig + 12 = [illegible] psia (g)

Square root chart average reading [illegible]² x sp. const. [illegible] = [illegible] psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) [illegible] psia (h)

P_t = (h) + (f) [illegible] psia (i)

Wellhead casing shut-in pressure (Dwt) [illegible] psig + 12 = [illegible] psia (j)

Wellhead tubing shut-in pressure (Dwt) [illegible] psig + 12 = [illegible] psia (k)

P_c = (j) or (k) whichever well flowed through [illegible] psia (l)

Flowing Temp. (Meter Run) [illegible] °F + 460 = [illegible] °Abs (m)

P_d = ½ P_c = ½ (l) [illegible] psia (n)

FLOW RATE CALCULATION

Q = [illegible] X [illegible] = [illegible] MCF/da

(integrated)

DELIVERABILITY CALCULATION

D = Q [illegible] [illegible] = [illegible] MCF/da

SUMMARY

P_c = [illegible] psia Company El Paso Natural Gas

Q = [illegible] Mcf/day By [illegible]

P_w = [illegible] psia Title [illegible]

P_d = [illegible] psia Witnessed by [illegible]

D = [illegible] Mcf/day Company [illegible]

* This is date of completion test.

† Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

FRICTION NEGLIGIBLE

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D at 500 = 245