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)

72-105

Pool N. Los Pinos Formation Dakota County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Allison Well No. 12 (D)

Unit G Sec. 14 Twp. 32 Rge. 7 Pay Zone: From 8082 To 8166

Casing: OD 5-1/2 WT. 18 Set At 8317 Tubing: OD 2" WT. 4.7 T. Perf. 8099

Produced Through: Casing Tubing X Gas Gravity: Measured .590 Estimated

Date of Flow Test: From 12/7/58 To 12/15/58 * Date S.I.P. Measured 8/11/58 (16)

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 (6.95) ^{2} x sp. const. 10	=	483	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	483	psia	(h)
P_t = (h) + (f)	=	483	psia	(i)
Wellhead casing shut-in pressure (Dwt)	psig + 12 =		psia	(j)
Wellhead tubing shut-in pressure (Dwt) 2313	psig + 12 =	2325	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	2325	psia	(l)
Flowing Temp. (Meter Run) 63 °F + 460	=	523	°Abs	(m)
$P_d = ½ P_c = ½ (l)$	=	1163	psia	(n)

FLOW RATE CALCULATION

Q = _____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_ = \_\_\_ \right)^{*}$ = 4214 MCF/da

DELIVERABILITY CALCULATION

$$D = Q\ 4214 \left[\frac{P_c^2 - P_d^2 = 4053056}{P_c^2 - P_w^2 = 4712401} \right]^n \frac{.8600}{.8931} = 3764 \text{ MCF/da.}$$

SUMMARY

P_c =	2325	psia
Q =	4214	Mcf/day
P_w =	833	psia
P_d =	1163	psia
D =	3764	Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
Witnessed by
Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
4778	.293	1569744	459,935	233289	693224	833

D at 500 = 4196

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GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

72-104

Pool: Blanco Formation: Mesa Verde County: San Juan

Purchasing Pipeline: El Paso Natural Gas Date Test Filed: _____

Operator: ElPaso Natural Gas Lease: Allison Well No.: 12 (M)

Unit: G Sec.: 14 Twp.: 32 Rge.: 7 Pay Zone: From: 5796 To: 5870

Casing: OD 7-5/8 WT. 26.4 Set At 6040 Tubing: OD _____ WT. _____ T. Perf. _____

Produced Through: Casing X Tubing _____ Gas Gravity: Measured .581 Estimated _____

Date of Flow Test: From 12/7/58 To 12/15/58* Date S.I.P. Measured 8/18/58 (23)

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 (6.90)^2 x sp. const. 10	=	476	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	476	psia	(h)
P_t = (h) + (f)	=	476	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1550	psig + 12 =	1562	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =		psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1562	psia	(l)
Flowing Temp. (Meter Run) 74 °F + 460	=	534	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	781	psia	(n)

FLOW RATE CALCULATION

$$Q = \_\_\_\_ \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_\_ = \_\_\_\_ \right)^{*} = 574 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 574 \left[\frac{P_c^2 - P_d^2 = 1829883}{P_c^2 - P_w^2 = 2213268} \right]^{n\ .8267/.8669} = 498 \text{ MCF/da.}$$

SUMMARY

P_c =	1562	psia
Q =	574	Mcf/day
P_w =	476	psia
P_d =	781	psia
D =	498	Mcf/day

Company: El Paso Natural Gas
By: Original Signed Harold L. Kendrick
Title: _____
Witnessed by: _____
Company: _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-S}) / R^2$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
			Friction Negligible			

D at 500 = 567

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