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 Date Test Filed

Operator El Paso Natural Gas Lease Lackey Well No. 11-B

Unit A Sec. 30 Twp. 28 Rge. 9 Pay Zone: From 4370 To 4470

Casing: OD 7-5/8 WT. 26.40 Set At 4230 Tubing: OD 2" WT. 4.7 T. Perf. 4432

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .680 Estimated ____

Date of Flow Test: From 11/23 To 11/30 * Date S.I.P. Measured 5/21/57 (9 days)

Meter Run Size ____ Orifice Size ____ Type Chart ____ Type Taps ____

5-1/2" liner. 4165 - 4534

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) 1057	psig + 12 =	1069	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1059	psig + 12 =	1071	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1071	psia	(l)
Flowing Temp. (Meter Run) 70 °F + 460	=	530	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	536	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 1082 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \cdot \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{859,745}{886,553} \right]^{n} \frac{.9697}{.9772} = 1057 \text{ MCF/da.}$$

SUMMARY

P_c =	1071	psia	
Q =	1082	Mcf/day	
P_w =	510	psia	
P_d =	536	psia	
D =	1057	Mcf/day	

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

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3014	.197	103,490	20,388	240,100	260,488	510

D at 500 = 1062

OK

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GAS WELL TEST DATA SHEET - SAN JUAN BASIN

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

Pool: Blanco — Formation: Mesa Verde — County: San Juan

Purchasing Pipeline: El Paso Natural Gas

Operator: El Paso Natural Gas — Lease: Leahy — Well No.: 11-B

Unit: A — Sec.: 20 — Twp.: 28 — Rge.: 9 — Pay Zone: From 4470 To 4470

Casing: 5-1/2 — Tubing: 1-1/4 — Set At: 4452

Produced Through: Tubing X — Gravity: .680 Estimated

Date of Flow Test: From 11/2 To 11/9 — Date S.I.P. Measured: 9/21/57 (9 days)

5-1/2" Liner, 4463 - 4574

OBSERVED DATA

(g)		psig
(g)	420	psia
(h)	420	
(i)	432	psia
(j)	1069	psig
(k)	1071	psia
(l)	1071	psia
(m)	520	°Abs
(n)	536	psia

Wellhead casing shut-in pressure: 1057

Wellhead tubing shut-in pressure: 1051

Flowing Temp.: 60

FLOW RATE CALCULATION

Q = 1092 MCF/da

DELIVERABILITY CALCULATION

D = 1057 MCF/da.

SUMMARY

P_c	1071
Q	1092
P_w	510
P_d	536
D	1057

Company: El Paso Natural Gas

P_w	P_t^2						
520	856,406	[illegible]	22,238	[illegible]	1.157	1014	

D at 500 = 1062