Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

72907

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 Basin Formation Dakota County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Florance Well No. 8-C

Unit I Sec. 19 Twp. 28 Rge. 8 Pay Zone: From 6470 To 6670

Casing: OD 5-1/2 WT. 17 Set At 6715 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6553

Produced Through: Casing ~~Tubing~~ Tubing I Gas Gravity: Measured .688 Estimated

Date of Flow Test: From 5/29/61 To 6/6/61 * Date S.I.P. Measured 9/28/60

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 ( )^2 x sp. const.	= 504	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 504	psia	(h)
P_t = (h) + (f)	= 504	psia	(i)
Wellhead casing shut-in pressure (Dwt) 2191	psig + 12 = 2203	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1759	psig + 12 = 1771	psia	(k)
P_c = (j) or (k) whichever well flowed through	= ◆ 2203	psia	(l)
Flowing Temp. (Meter Run) 74 °F + 460	= 534	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 1102	psia	(n)

FLOW RATE CALCULATION

Q = _____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{\bullet}$ = 417 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{.3638805}{.4594904} \right]^n$ = 417 × .7919 / .8394 = 350 MCF/da.

SUMMARY

P_c =	2203	psia
Q =	417	Mcf/day
P_w =	508	psia
P_d =	1102	psia
D =	350	Mcf/day

Company El Paso Natural Gas
By
Title Original signed by
Witnessed by H. L. Kendrick
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
4508	0.279	15374	4289	254016	258305	508

D at 500 = 416

◆ Use SIPC for P_c. Tubing loaded with water.

RECEIVED
JUN 29 1961
OIL CON. COM.
DIST. 3