Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

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 BALLARD Formation PICTURED CLIFFS County SAN JUAN

Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 9-10-56

Operator J. GLENN TURNER Lease HUERFANITO UNIT Well No. 14-1

Unit O Sec. 1 Twp. 26N Rge. 9W Pay Zone: From 1935 To 2025

Casing: OD 5-1/2" WT. 14# Set At 1949 Tubing: OD 1" WT 1.7# T. Perf. 2015

Produced Through: Casing x Tubing Gas Gravity: Measured 0.680 Estimated

Date of Flow Test: From 7-31-56 To 8-8-56 * Date S.I.P. Measured 2-16-56

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 (7.25) ^{2} x sp. const. 5	=	263	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	263	psia	(h)
P_t = (h) + (f)	=	263	psia	(i)
Wellhead casing shut-in pressure (Dwt) 643	psig + 12 =	655	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 643	psig + 12 =	655	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	655	psia	(l)
Flowing Temp. (Meter Run) 66 °F + 460	=	526	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	328	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{321,000}{360,000} \right]^{n} = 0.906 = 146 \text{ MCF/da.}$$

359,856

SUMMARY

P_c =	655	psia
Q =	161	Mcf/day
P_w =	263	psia
P_d =	328	psia
D =	146	Mcf/day

Company J. GLENN TURNER
By Abigail L. Hooks
Title Engineer
Witnessed by
Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
			Friction negligible			

OK

RECEIVED
SEP 19 1956
OIL CON. COM.
DIST. 3