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 9-11-56

Operator J. GLENN TURNER Lease HUERFANITO UNIT Well No. 38-28

Unit O Sec. 28 Twp. 27N Rge. 9W Pay Zone: From 2349 To 2423

Casing: OD 5-1/2" WT. 14# Set At 2349 Tubing: OD 1" WT. 1.7# T. Perf. 2407

Produced Through: Casing X Tubing Gas Gravity: Measured 0.645 Estimated

Date of Flow Test: From 7-31-56 To 8-8-56 * Date S.I.P. Measured 3-25-56

Meter Run Size 4" Orifice Size Type Chart Sq.Rt. Type Taps Flarge

OBSERVED DATA

Flowing casing pressure (Dwt)	psig + 12 =	psia	(c)
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	(c)
Square root chart reading ( ) ^{2} x spring constant	=	psia	(c)
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 (7.3) ^{2} x sp. const. 5	= 266	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 266	psia	(h)
P_t = (h) + (f)	= 266	psia	(i)
Wellhead casing shut-in pressure (Dwt) 597	psig + 12 = 609	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 597	psig + 12 = 609	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 609	psia	(l)
Flowing Temp. (Meter Run) 77 °F + 460	= 537	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 305	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{n}$$

D = Q 14 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{278,000}{300,000} \right]^{n}$ 0.938 = 13 MCF/da.

125

SUMMARY

P_c =	609	psia	
Q =	14	Mcf/day	
P_w =	266	psia	
P_d =	305	psia	
D =	13	Mcf/day	

Company J. GLENN TURNER

By Dwight L. Stocks

Title Engineer

Witnessed by

Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

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

RECEIVED
SEP 10 1956
OIL CON. COM.
DIST.