2 [illegible]
1 Penrose
1 EPNG
1 File

Initial Deliverability Test

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 Tapacito Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed April 16, 1964

Operator Penrose Production Co. Lease Florance Well No. 4

Unit K Sec. 5 Twp. 25N Rge. 3W Pay Zone: From 3743 To 3777

Casing: OD 4½" WT. _____ Set At 3830 Tubing: OD 1½" WT. _____ T. Perf. 3733

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .652 Estimated _____

Date of Flow Test: From _____ To _____ * Date S.I.P. Measured 11-14-63

Meter Run Size 4" Orifice Size 2.750" Type Chart S.R. 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 (6.9)^2 x sp. const. 5	=	238	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	_____	psia	(h)
P_t = (h) + (f)	=	238	psia	(i)
Wellhead casing shut-in pressure (Dwt) 877	psig + 12 =	889	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 876	psig + 12 =	888	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	889	psia	(l)
Flowing Temp. (Meter Run) _____ °F + 460	=	_____	°Abs	(m)
P_d = ½ P_c = ½ (l) 80%	=	711	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \, 3107 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{284,800}{309,959} \right]^{n .85} \frac{.9305}{(.9188)^{.75}} = 2891 \text{ MCF/da.}$$

SUMMARY

P_c =	889	psia
Q =	3107	Mcf/day
P_w =	693	psia
P_d =	711	psia
D =	2891	Mcf/day

Company Penrose Production Co.
By Original signed by [illegible]
Title Consulting Engineer
Witnessed by _____
Company _____

RECEIVED
APR 17 1964
OIL CON. COM.
DIST. 3

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
2434	.162	2615.422	423.698	56.664	480.362	693