J-M, R. O, C. C, Aztec
I-L, D. Calloway
S-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 Blanco Mesa Verde Formation Mesa Verde County San Juan

Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 11-25-57

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 32-8 Well No. 14-34

Unit K Sec. 34 Twp. 32N Rge. 8W Pay Zone: From 5552' To 5980'

Casing: OD 9 5/8" WT. 36# Set At 6075' Tubing: OD 2" WT. 4.7 T. Perf. 6024'

Produced Through: Casing ^ Tubing X X Gas Gravity: Measured .595 Estimated

Date of Flow Test: From 9-23-57 To 10-1-57 * Date S.I.P. Measured 4-17-56

Meter Run Size 4" Orifice Size 1.000 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 (7.10) ^{2} x sp. const. 1.000	= 504	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	psia	(h)
P_t = (h) + (f)	= 504	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1117	psig + 12 = 1129	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1121	psig + 12 = 1133	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1133	psia	(l)
Flowing Temp. (Meter Run) 75 °F + 460	= 535	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 566.5	psia	(n)

FLOW RATE CALCULATION

$$Q = 385 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^n = \quad \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{962767}{1,026,711} \right]^n \frac{(0.9377)^{.75}}{0.9530} = 367 \text{ MCF/da.}$$

SUMMARY

P_c =	1133 psia	Company	PACIFIC NORTHWEST PIPELINE CORP.
Q =	385 Mcf/day	By	Original signed by G. H. Peppin
P_w =	507 psia	Title	District Production Engineer
P_d =	566.5 psia	Witnessed by	
D =	367 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
3584	0.226	13.104	2.962	254.016	256.978	507

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