3-NMOCC Aztec
1-Bill Cutler
1-L. D. Galloway
1-Wayne Smith
2-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 Formation Mesa Verde County Rio Arriba

Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 6-30-58

Operctor PACIFIC NORTHWEST PIPELINE Lease San Juan 28-4 Well No. 14-29

Unit H Sec. 29 Twp. 28N Rge. 4W Pay Zone: From 6600' To 6690'

Casing: OD 5½" WT. 15.5# Set At 6739' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 6672'

Produced Through: Casing ~~Tubing~~ xx Gas Gravity: Measured 0.654 Estimated

Date of Flow Test: From 6-7-58 To 6-15-58* Date S.I.P. Measured 1-27-58

Meter Run Size Orifice Size 1.250 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. 10.00	=	526	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=		psia	(h)
P_t = (h) + (f)	=	526	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1123	psig + 12 =	1135	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1101	psig + 12 =	1113	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1113	psia	(l)
Flowing Temp. (Meter Run) 64 °F + 460	=	524	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	556.5	psia	(n)

FLOW RATE CALCULATION

Q = 493 (integrated) $\times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^*$ = 493 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{929.077}{956.250} \right]^n \frac{(0.9716)^{.75}}{0.9786}$ = 482 MCF/da.

SUMMARY

P_c =	1113	psia	
Q =	493	Mcf/day	
P_w =	532	psia	
P_d =	556.5	psia	
D =	482	Mcf/day	

Company PACIFIC NORTHWEST PIPELINE
By Original signed by G. H. Peppin
Title District Production 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
4363	0.272	21.483	5.843	276.676	282.519	532