ACC Aztec
All Cutler
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 Mesa Verde Formation Mesa Verde County Rio Arriba

Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 2-13-58

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 32-8 Well No. 89-A

Unit L Sec. 4 Twp. 31N Rge. 8W Pay Zone: From 5332' To 5846'

Casing: OD 5-½" WT. 14.0 Set At 5911' Tubing: OD 1-1/4" WT. 2.4 T. Perf. 5843'

Produced Through: Casing ____ Tubing x x Gas Gravity: Measured .602 Estimated ____

Date of Flow Test: From 12-31-57 To 1-8-58 * Date S.I.P. Measured 9-5-57

Meter Run Size ____ Orifice Size .250 Type Chart ____ Type Taps ____

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 (6.85)² x sp. const. 10.000	=	469	psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	____	psia (h)
P_t = (h) + (f)	=	469	psia (i)
Wellhead casing shut-in pressure (Dwt) 1018	psig + 12 =	1030	psia (j)
Wellhead tubing shut-in pressure (Dwt) 822	psig + 12 =	834	psia (k)
P_c = (j) or (k) whichever well flowed through	=	1030	psia (l)
Flowing Temp. (Meter Run) 60 °F + 460	=	520	°Abs (m)
P_d = ½ P_c = ½ (l)	=	515	psia (n)

FLOW RATE CALCULATION

$$Q = 39 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 39 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{795675}{840939} \right]^{n} \frac{(0.9462)^{.75}}{0.9594} = 37 \text{ MCF/da.}$$

SUMMARY

P_c = 1030 psia
Q = 39 Mcf/day
P_w = 469 psia
P_d = 515 psia
D = 37 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORP.
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	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w

RECEIVED
FEB 17 1958
OIL CON. COM.
DIST. 3