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 ~~Undesignated~~ Blanco PC Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Date Test Filed 3-19-57

Operator Amerada Petr. Corp. Lease Jicarilla Apache "F" Well No. 1 (C)

Unit J Sec. 17 Twp. 25N Rge. 5W Pay Zone: From 2718' To 2788'

Casing: OD 7-5/8" WT. Set At 2879' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 2725'

Produced Through: Casing x Tubing Gas Gravity: Measured .660 Estimated

Date of Flow Test: From 12-23-56 To 12-31-56 * Date S.I.P. Measured 1-7-57

Meter Run Size 4" Orifice Size 3/4" Type Chart 1-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt)	325	psig + 12 =	337	psia	(a)
Flowing tubing pressure (Dwt)		psig + 12 =		psia	(b)
Flowing meter pressure (Dwt)		psig + 12 =	336.2	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:					
Normal chart reading		psig + 12 =		psia	(d)
Square root chart reading (8.2) ^{2} x spring constant	500	=	336.2	psia	(d)
Meter error (c) - (d) or (d) - (c)	±	=	0	psi	(e)
Friction loss, Flowing column to meter:					
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		=	0.8	psi	(f)
Seven day average static meter pressure (from meter chart):					
Normal chart average reading		psig + 12 =		psia	(g)
Square root chart average reading (8.2) ^{2} x sp. const.	500	=	336.2	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		=	336.2	psia	(h)
P_t = (h) + (f)		=	337	psia	(i)
Wellhead casing shut-in pressure (Dwt)	465	psig + 12 =	477	psia	(j)
Wellhead tubing shut-in pressure (Dwt)		psig + 12 =		psia	(k)
P_c = (j) or (k) whichever well flowed through		=	477	psia	(l)
Flowing Temp. (Meter Run)	45 °F + 460	=	505	°Abs	(m)
P_d = ½ P_c = ½ (l)		=	238.5	psia	(n)

FLOW RATE CALCULATION

$$Q = 179 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{-}{-} = 1 \right)^{*} = 179 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 179 \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{170,647}{113,960} \right]^{n\ 1.409} = 252 \text{ MCF/da.}$$

SUMMARY

P_c =	477	psia
Q =	179	Mcf/day
P_w =	337	psia
P_d =	238.5	psia
D =	252	Mcf/day

Company Amerada Petr. Corp.

By W.G. Abbott W.G. Abbott

Title District Engineer

Witnessed by

Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(F_cQ)^2 (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
1799	0.116	.013	.002	1135.69	1135.69	337

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