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 So. Blanco Pictured Cliffs Formation Pictured Cliffs County Rio Arriba

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

Operator Amerada Petr. Corp. Lease Jicarilla Apache "A" Well No. 2

Unit J Sec. 24 Twp. 25N Rge. 5W Pay Zone: From 3130' To 3148'

Casing: OD 5-1/2" WT. 15.5# Set At 4062' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3132'

Produced Through: Casing x Tubing Gas Gravity: Measured .670 Estimated

Date of Flow Test: From 12-12-56 To 12-24-56 *Date S.I.P. Measured 12-31-56

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

OBSERVED DATA

Flowing casing pressure (Dwt)	291 psig + 12 =	303 psia	(a)
Flowing tubing pressure (Dwt)	psig + 12 =	292.6 psia	(b)
Flowing meter pressure (Dwt)	psig + 12 =	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:			
Normal chart reading	765 psig + 12 =	292.6 psia	(d)
Square root chart reading ( ) ^{2} x spring constant	500 =	0 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	=	10.4 psi	(f)
Seven day average static meter pressure (from meter chart):			
Normal chart average reading	7.65 psig + 12 =	292.6 psia	(g)
Square root chart average reading ( ) ^{2} x sp. const.	500 =	292.6 psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	303 psia	(h)
P_t = (h) + (f)	=	764 psia	(i)
Wellhead casing shut-in pressure (Dwt)	752 psig + 12 =	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =	764 psia	(k)
P_c = (j) or (k) whichever well flowed through	=	503 psia	(l)
Flowing Temp. (Meter Run)	43 °F + 460 =	382 °Abs	(m)
P_d = ½ P_c = ½ (l)	=	psia	(n)

FLOW RATE CALCULATION

$$Q = 173 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{-}{-} = 1 \right)^{*} = 173 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{437,772}{491,887} \right]^{n} = 173^{.906} = 157 \text{ MCF/da.}$$

SUMMARY

P_c =	764 psia
Q =	173 Mcf/day
P_w =	303 psia
P_d =	382 psia
D =	157 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	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2 (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
2098	0.134	.0925	.012	918.09	918.10	303

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