Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

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 Ballard Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 8-25-60

Operator PUBCO PETROLEUM CORPORATION Lease Otero Well No. 4

Unit G Sec. 23 Twp. 24N Rge. 6W Pay Zone: From 2099 To 2161

Casing: OD 7 WT. 20 Set At 2246 Tubing: OD 1.9(571-2187)2.75 WT. 1.7 T. Perf. 2185

Produced Through: Casing ___ Tubing X Gas Gravity: Measured 0.682 Estimated ___

Date of Flow Test: From 7-30-60 To 8-7-60 * Date S.I.P. Measured 6-13-60

Meter Run Size 4" Orifice Size 3/4" Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt)	316	psig + 12 =	328	psia	(a)
Flowing tubing pressure (Dwt)	207	psig + 12 =	219	psia	(b)
Flowing meter pressure (Dwt)	207	psig + 12 =	219	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken):					
Normal chart reading		psig + 12 =		psia	(d)
Square root chart reading (6.7)^2 x spring constant	5	=	224	psia	(d)
Meter error (c) - (d) or (d) - (c)	±	=	-5	psi	(e)
Friction loss, Flowing column to meter:					
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		=	0	psi	(f)
Seven day average static meter pressure (from meter chart):					
Normal chart average reading		psig + 12 =		psia	(g)
Square root chart average reading (6.60)^2 x sp. const. 5		=	218	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		=	213	psia	(h)
P_t = (h) + (f)		=	213	psia	(i)
Wellhead casing shut-in pressure (Dwt)	654	psig + 12 =	666	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	654	psig + 12 =	666	psia	(k)
P_c = (j) or (k) whichever well flowed through		=	666	psia	(l)
Flowing Temp. (Meter Run)	74 °F + 460	=	534	°Abs	(m)
P_d = ½ P_c ± ½ (l)		=	333	psia	(n)

FLOW RATE CALCULATION

Q = 86 (integrated) X $\left(\frac{\sqrt{(c)\ 219}}{\sqrt{(d)\ 224}} = \frac{14.79865}{14.96663} = 0.98878\right)^{*}$ = 75 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2 = 332,667}{P_c^2 - P_w^2 = 397,674}\right]^{n}$ $0.83653)^{.85}$ 0.8592 = 64 MCF/da.

"D" at 262 - 71

SUMMARY

P_c =	666	psia
Q =	75	Mcf/day
P_w =	214	psia
P_d =	333	psia
D =	64	Mcf/day

Company PUBCO PETROLEUM CORPORATION
By B. H. Wyshoff, Jr.
Title Production Engineer
Witnessed by Jack Dunning
Company Pubco Petroleum Corp.

* 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
389	0.074 0.028	1524 14,299	113)513 400	45,369	45,882	214