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: Basin Dakota Formation: Dakota County: San Juan

Purchasing Pipeline: El Paso Natural Gas Company Date Test Filed: April 3, 1961

Operator: Tenneco Corporation Lease: Glenn H. Callow Gas Unit "A" Well No. 1

Unit: D Sec. 27 Twp. 29 N Rge. 13 W Pay Zone: From 5670 To 5810

Casing: OD 4" WT. 9.5 Set At 5883 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5670'

Produced Through: Casing ^ Tubing X Gas Gravity: Measured .708 Estimated

Date of Flow Test: From 2-19-61 To 2-23-61 * Date S.I.P. Measured 11-16-60

Meter Run Size 4" Orifice Size 3" Type Chart SR Type Taps F

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 =	511	psia	(g)
Square root chart average reading (7.15) ^{2} x sp. const. 1000	=	511	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	511	psia	(h)
P_t = (h) + (f)	=	511	psia	(i)
Wellhead casing shut-in pressure (Dwt)	psig + 12 =	2084	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =	2076	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	2076	psia	(l)
Flowing Temp. (Meter Run) 83 °F + 460	=	543	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	1038	psia	(n)

FLOW RATE CALCULATION

$$Q = 6061 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_ = \_\_\_ \right)^* = 6061 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 6061 \left[\frac{P_c^2 - P_d^2 = 3\,232\,332}{P_c^2 - P_w^2 = 3\,226\,095} \right]^n 1.000 = 6061 \text{ MCF/da.}$$

SUMMARY

P_c =	2076	psia
Q =	6061	Mcf/day
P_w =	1041	psia
P_d =	1038	psia
D =	6061	Mcf/day

Company: Tenneco Corporation
By: J. J. Lacey
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
4014	.253	3247729	821,676	261,121	1.082837	1041

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