Form C-122-A

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 Formation Dakota County San Juan

Purchasing Pipeline Southern Union Gas Co. Date Test Filed 12-27-61

Operator Consolidated Oil & Gas, Inc. Lease Price Well No. 1-15

Unit N Sec. 15 Twp. 31N Rge. 13W Pay Zone: From 6541 To 6623

Casing: OD 5 1/2 WT. 14&15.5 Set At 6674 Tubing: OD 1.99 WT. 2.75 T. Perf. 6491

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .684 Estimated ____

Date of Flow Test: From 11-25-61 To 12-1-61 * Date S.I.P. Measured 12-9-61

Meter Run Size 4.000 Orifice Size 1.75 Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) (Mesaverde)	____ psig + 12 =	____	psia	(a)
Flowing tubing pressure (Dwt)	551 psig + 12 =	563	psia	(b)
Flowing meter pressure (Dwt)	545 psig + 12 =	557	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken):				
Normal chart reading	____ psig + 12 =	____	psia	(d)
Square root chart reading (7.50)^2 x spring constant 10	=	562	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	=	6	psi	(f)
Seven day average static meter pressure (from meter chart):				
Normal chart average reading	____ psig + 12 =	____		(g)
Square root chart average reading (7.6)^2 x sp. const. 10	=	578	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	573	psia	(h)
P_t = (h) + (f)	=	579	psia	(i)
Wellhead casing shut-in pressure (Dwt) (MV)	____ psig + 12 =	____	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1343	psig + 12 =	1355	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1355	psia	(l)
Flowing Temp. (Meter Run) 85 °F + 460	=	545	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	677	psia	(n)

FLOW RATE CALCULATION

$$Q = .64 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{23.60085}{23.70654} = 0.9955 \right)^* = 561 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\,56. \left[\frac{P_c^2 - P_d^2 = 1,377,696}{P_c^2 - P_w^2 = 1,477,250} \right]^n .9490 = 532 \text{ MCF/da.}$$

SUMMARY

P_c =	1355	psia
Q =	561	Mcf/day
P_w =	599	psia
P_d =	677	psia
D =	532	Mcf/day

Company Consolidated Oil & Gas, Inc.

By [signature]

Title Chief Engineer

Witnessed by ____

Company ____

RECEIVED
DEC 29 1961
OIL CON. COM.
DIST. 3

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(FcQ)^2 \quad (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
4440	.276	85.268	23.534	335.241	358.775	599