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: Angels Peak Dakota Formation: Dakota County: San Juan

Purchasing Pipeline: Southern Union Gas Co. Date Test Filed: 1-8-60

Operator: Three States Nat. Gas Co. Lease: Lodewick Well No. 4

Unit: F Sec. 18 Twp. 27N Rge. 9W Pay Zone: From 6728 To 6555

Casing: OD 5½ WT. 15.5 Set At 6771 Tubing: OD 2" WT. 4.7 T. Perf. 6693

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .722 Estimated ____

Date of Flow Test: From 12-16-59 To 12-24-59 * Date S.I.P. Measured 9-11-59

Meter Run Size 4.026 Orifice Size 2½ Type Chart Normal Type Taps Pipe

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 385	psig + 12 =	397	psia	(g)
Square root chart average reading (____)^2 x sp. const.	=	-	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	397	psia	(h)
P_t = (h) + (f)	=	397	psia	(i)
Wellhead casing shut-in pressure (Dwt) 2047	psig + 12 =	2059	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 2047	psig + 12 =	2059	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	2059	psia	(l)
Flowing Temp. (Meter Run) 87 °F + 460	=	547	°Abs	(m)
$P_d = ½ P_c = ½$ (l)	=	1030	psia	(n)

FLOW RATE CALCULATION

Q = ____ (integrated) x ($\sqrt{(c)}$ / $\sqrt{(d)}$ = ____ = ____) * = ____ MCF/da

DELIVERABILITY CALCULATION

D = Q 1001 [($P_c^2 - P_d^2$) = 3,178,581 / ($P_c^2 - P_w^2$) = 4,055,440]^n .7838$^{.75}$ = .8337 = 835 MCF/da.

SUMMARY

P_c =	2059	psia
Q =	1001	Mcf/day
P_w =	429	psia
P_d =	1030	psia
D =	835	Mcf/day

Company: Three States Natural Gas Company
By: Original Signed By John Carothers
Title: Assistant District Supt.
Witnessed by: ____
Company: ____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-S}) / R^2$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
4832	0.296	88.57	26.2	157,609	183,809	429

OK

RECEIVED
JAN 11 1960
OIL CON. COM.
DIST. 3