Form C-122-A
Revised April 20, 1955

REMARKED WELL

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 Fulcher-Kutz Formation Pictured Cliffs County San Juan

Purchasing Pipeline Southern Union Gas Co. Date Test Filed January 8, 1956

Operator ~~Johnston Oil Co.~~ TEXAS NAT'L PET Lease Lederick Well No. # 3

Unit M Sec. 19 Twp. 27 N Rge. 9 W Pay Zone: From 2410 To 2465

Casing: OD 7" WT. 20# Set At 2410 Tubing: OD 1" WT. 1.7 T. Perf. 2435

Produced Through: Casing X Tubing ____ Gas Gravity: Measured ____ Estimated .663

Date of Flow Test: From 11-23-55 To 11-30-55 * Date S.I.P. Measured 10-16-55

Meter Run Size 4" Orifice Size 1/2 Type Chart normal Type Taps flange

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 229	psig + 12 =	241	psia	(g)
Square root chart average reading (____) ^{2} x sp. const.	=	---	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	241	psia	(h)
P_t = (h) + (f)	=	241	psia	(i)
Wellhead casing shut-in pressure (Dwt) 487	psig + 12 =	499	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 487	psig + 12 =	499	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	499	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	=	520	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	249.5	psia	(n)

FLOW RATE CALCULATION

Q = ____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^{*}$ = ____ MCF/da

DELIVERABILITY CALCULATION

Use 24

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ D = Q 24 — $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{186,751}{190,920}$ ^{n} .9782$^{.85}$ = .9815 = ~~23.56~~ MCF/da.

SUMMARY

P_c =	499	psia
Q =	~~23.56~~	Mcf/day
P_w =	* 241	psia
P_d =	249.5	psia
D =	~~23.56~~ 24	Mcf/day

Company TEXAS NATIONAL PET CO.

By W. J. [illegible]

Title Agent

Witnessed by Bruno Giovanini

Company Southern Union Gas Co.

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w

* Note: Low casing flow; P_w equal P_t

OK

RECEIVED
FEB 1 1956
OIL CON. COM.
DIST. 3

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received 3

DISTRIBUTION

	NO. FURNISHED	
Operator		
Santa Fe	/	
Proration Office		
State Land Office		
U. S. G. S.	/	
Transporter		
File	/	✓