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 **Aztec Pictured Cliffs** Formation **Pictured Cliffs** County **San Juan**

Purchasing Pipeline **El Paso Natural Gas Company** Date Test Filed **11-17-61**

Operator **Mountain States Petroleum Co.** Lease **State of New Mexico** Well No. **1-A**

Unit **P** Sec. **32** Twp. **29N** Rge. **10W** Pay Zone: From **1935** To **1965**

Casing: OD **4.5** WT. **9.5** Set At **2031** Tubing: OD **1"** WT. ____ T. Perf. **1935**

Produced Through: Casing ____ Tubing **X** Gas Gravity: Measured **.639** Estimated ____

Date of Flow Test: From ____ To ____ * Date S.I.P. Measured **1-24-61**

Meter Run Size ____ Orifice Size **1.250** Type Chart ____ Type Taps ____

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 =	____	psia	(g)
Square root chart average reading (**6.85**)^2 x sp. const. **5.00**	=	**235**	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	**235**	psia	(h)
P_t = (h) + (f)	=	**235**	psia	(i)
Wellhead casing shut-in pressure (Dwt) **630**	psig + 12 =	**642**	psia	(j)
Wellhead tubing shut-in pressure (Dwt) **630**	psig + 12 =	**642**	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	**642**	psia	(l)
Flowing Temp. (Meter Run) **69** °F + 460	=	**529**	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	**321**	psia	(n)

FLOW RATE CALCULATION

$Q =$ **242** (integrated) $\times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^* =$ **242** MCF/da

DELIVERABILITY CALCULATION

$D = Q$ **242** $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{309,123}{344,145} \right]^n$ **0.8982** **(0.9126)** $=$ **~~242~~ 221** MCF/da.

SUMMARY

P_c =	**642**	psia
Q =	**~~242~~ 221**	Mcf/day
P_w =	**261**	psia
P_d =	**321**	psia
D =	**~~242~~ 221**	Mcf/day

Company **Mountain States Petroleum Corp.**
By **Jack A. Cole**
Title **Geologist**
Witnessed by ____
Company ____

RECEIVED
NOV 20 1961
OIL CON. COM.
DIST. 3

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
1236	**0.086**	**148.767**	**12,794**	**55,225**	**68,019**	**261**