3 NMOCC
2 Mt. States Petroleum
1 EPNG
1 File
Initial Deliverability Test

Form C-122-A
Revised April 20, 1955

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 El Paso Natural Gas Company Date Test Filed June 18, 1963

Operator J. L. Mills Lease Mills Well No. 1

Unit I Sec. 31 Twp. 31 Rge. 13 Pay Zone: From 6215 To 6300

Casing: OD 4 1/2" WT. 10.5# Set At 6402 Tubing: OD 2 3/8" WT. _____ T. Perf. 6300

Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.705 Estimated _____

Date of Flow Test: From 4-3-63 To 4-11-63 * Date S.I.P. Measured 4-18-63

Meter Run Size 4" Orifice Size 1.750 Type Chart SR 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 _____	psig + 12 = _____	psia	(g)
Square root chart average reading (7.15)^2 x sp. const. 10	= 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) 1812	psig + 12 = 1824	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1810	psig + 12 = 1822	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1824	psia	(l)
Flowing Temp. (Meter Run) _____ °F + 460	= _____	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 912	psia	(n)

FLOW RATE CALCULATION

Q = 739 (integrated) $\times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_\_ = \_\_\_\_ \right)^{*}$ = 739 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{(P_c^2 - P_d^2) = 2,495,232}{(P_c^2 - P_w^2) = 3,052,531} \right]^{n}$ $\frac{0.8174}{(0.8596)^{.75}}$ = 635 MCF/da.

$n = .75$

SUMMARY

P_c =	1824	psia
Q =	739	Mcf/day
P_w =	524	psia
P_d =	912	psia
D =	635	Mcf/day

Company J. L. Mills
By Original signed by T. A. Dugan
Title Consulting Engineer
Witnessed by _____
Company _____

RECEIVED
JUN 19 1963
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
4441	0.276	48.275	13.324	261.121	274.445	524