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 ~~Wildcat~~ Fulcher-Kutz Formation PC County San Juan

Purchasing Pipeline EP Date Test Filed

Operator EP Lease Huerfano Well No. 90

Unit E Sec. 35 Twp. 27N Rge. 10W Pay Zone: From 2370 To 2380

Casing: OD 5-1/2 WT. 15.5 Set At 2470 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2358

Produced Through: Casing I Tubing Gas Gravity: Measured .640 Estimated

Date of Flow Test: From 3/31/57 To 4/9/57 * Date S.I.P. Measured 11/29/56

Meter Run Size 4 Orifice Size 0.500 Type Chart Sq. root Type Taps F

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 (6.55) ^{2} x sp. const. 5	=	215	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	215	psia	(h)
P_t = (h) + (f)	=	215	psia	(i)
Wellhead casing shut-in pressure (Dwt) 505	psig + 12 =	517	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 505	psig + 12 =	517	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	517	psia	(l)
Flowing Temp. (Meter Run) 44 °F + 460	=	504	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	259	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{200208}{221064} \right]^n \frac{0.9056}{0.9193} = 120$ MCF/da.

SUMMARY

P_c =	517	psia
Q =	130	Mcf/day
P_w =	215	psia
P_d =	259	psia
D =	120	Mcf/day

Company Original Signed
By Lewis D. Galloway
Title
Witnessed by
Company

RECEIVED
APR 29 1957
OIL CON. COM.
DIST. 3

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

REMARKS OR FRICTION CALCULATIONS

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

~~221064~~ 198645 = 0.8985 = 0.9130

D250 = 119