

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 4-7-59

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 (<u>6.25</u>) ² x sp. const. <u>10</u> _____	= <u>391</u>	psia	(g)
Corrected seven day avge. meter press. (p _f) (g) + (e) _____	= <u>391</u>	psia	(h)
P _t = (h) + (f) _____	= <u>391</u>	psia	(i)
Wellhead casing shut-in pressure (Dwt) <u>1045</u> _____	psig + 12 = <u>1057</u>	psia	(j)
Wellhead tubing shut-in pressure (Dwt) <u>1045</u> _____	psig + 12 = <u>1057</u>	psia	(k)
P _C = (j) or (k) whichever well flowed through _____	= <u>1057</u>	psia	(l)
Flowing Temp. (Meter Run) <u>55</u> °F + 460 _____	= <u>515</u>	° Abs	(m)
P _d = ½ P _C = ½ (l) _____	= <u>529</u>	psia	(n)

$$Q = \text{_____} \times \left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\text{_____}} = \text{_____} = \text{_____}} \right)^* = \text{_____ MCF/day}$$

(integrated)

$$D = Q \frac{1,005}{\left[\frac{P_C^2 - P_d^2}{P_C^2 - P_w^2} = \frac{837,408}{964,369} \right]^n \cdot .8869} = 891 \text{ MCF/da.}$$

$P_c =$ 1057 psia
 $Q =$ 1005 Mcf/day
 $P_w =$ 391 psia
 $P_d =$ 529 psia
 $D =$ 804.891 Mcf/day

Company FRANK A. SCHULTZ, JR.
By August H. S. Books
Title Engineer
Witnessed by _____
Company _____

- REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_c Q)^2$	$(F_c Q)^2 \quad (1-e^{-S})$ R2	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
			Friction negligible			

