

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

Operator El Paso Natural Gas Lease Lacey Well No. 7-B
Unit I Sec. 21 Twp. 28 Rge. 9 Pay Zone: From 3221 To 3246
Casing: OD 5½ WT. 15.5 Set At 3318 Tubing: OD 1½ WT. 2.3 T. Perf. 3226
Produced Through: Casing I Tubing _____ Gas Gravity: Measured .640 Estimated _____
Date of Flow Test: From 4/30/57 To 5/9/57 * Date S.I.P. Measured 11/2/56 (10 days)
Meter Run Size 4 Orifice Size 1.25 Type Chart Sq. Rt. Type Taps Flange

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>7.10</u>) ² x sp. const. <u>10</u> _____	= <u>504</u> _____	psia	(g)
Corrected seven day ave. meter press. (p _f) (g) + (e) _____	= <u>504</u> _____	psia	(h)
P _t = (h) + (f) _____	= <u>504</u> _____	psia	(i)
Wellhead casing shut-in pressure (Dwt) _____ <u>742</u> _____	psig + 12 = <u>754</u> _____	psia	(j)
Wellhead tubing shut-in pressure (Dwt) _____ <u>742</u> _____	psig + 12 = <u>754</u> _____	psia	(k)
P _C = (j) or (k) whichever well flowed through _____	= <u>754</u> _____	psia	(l)
Flowing Temp. (Meter Run) _____ <u>54</u> _____ °F + 460 _____	= <u>514</u> _____	° Abs	(m)
P _d = ½ P _C = ½ (l) _____	= <u>377</u> _____	psia	(n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^{\frac{1}{2}}$ = 190 MCF/day

(integrated)

$$D = Q \text{ --- } 190 \text{ --- } \left[\begin{array}{l} P_c^2 - P_d^2 = 426,387 \\ P_c^2 - P_w^2 = 314,500 \end{array} \right]^n \text{ --- } \frac{1.3557}{1.2949} = \text{ --- } 246 \text{ --- } \text{MCF/da.}$$

$P_c = 754$ psia
 $Q = 190$ Mcf/day
 $P_w = 504$ psia
 $P_d = 377$ psia
 $D = 24.6$ Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Lewis D. Galloway
Witnessed by _____
Company _____

RECEIVED

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$ R2	P_t^2 (Column i)	SIL CON. DIST.
			FRACTION RECALCULATED		

$$D @ 250 = 282$$

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