EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE _____May 6, 1974

Operator		Lease (DC)		
El Paso Natural	Gas Company	Hubbell #10 (PC)	State	
1017/S, 990/E, Sec. 19, T29N, R10W		San Juan	New Mexico	
Formation		Pool		
Pictured Cliffs		Aztec		
Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet	
2.875	1873'	No Tubing		
Pay Zone: From	То	Total Depth: PBTD	Shut In	
1726¹	1744	2876' 1863'	4-18-74	
Stimulation Method		Flow Through Casing	Flow Through Tubing	
		XX		
Sandwater Frac		XX		

Choke Size, Inches		Choke Constant: C				
.750		12,365		Tubingless Comple	etion_	
Shut-In Pressure, Casing,	PSIG	+ 12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing	PSIG	+ 12 = PSIA
523		535	18	No Tubing		
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: Pw	PSIG	+ 12 = PSIA
125		137		Calculated		159
Temperature:		n =		Fpv (From Tables)		Gravity
•	.9981	.85		1.0120		$\frac{1.650}{1.00}$ Fg = .960

CHOKE VOLUME = Q =	$C \times P_t \times F_t \times F_g \times F_{PV}$			
Q =	12.365(137)(.9981)(.9608)(1.0120)	=	1644	MCF/D
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OPEN FLOW = Aof = Q
$$\begin{pmatrix} & & & \\ & P_c & \\ & P_c & P_w \end{pmatrix}$$

Aof =
$$Q\left(\begin{array}{c} 286225 \\ 260944 \end{array}\right)^{n} = 1644(1.0969)^{.85} = 1644(1.0818)$$

Aof = Q	286225 260944	=	1644(1.0969)	.85=1644(1.0818)

The well produced a light fog of Aof = 1778 water and distillate throughout the test.

Wagner TESTED BY ____ WITNESSED BY_____

Joren w Fathergell Loren W. Fothergill

Well Test Engineer