FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE __May 15, 1972__

Operator		Lease	
EL PASO NATURAL GAS COMPANY		San Juan 27-5 Unit No. 144	

Location	County	State
1840 W, 1650 S Sec. 35-27-5	Rio Arriba	New Mexico

Formation	Pool
Dakota	Basin

Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet
4.500	7814	1.900	7760

Pay Zone: From	To	Total Depth:	Shut In
7586	7792	7814	4-30-72

Stimulation Method	Flow Through Casing	Flow Through Tubing
SWF	XXX	

Choke Size, Inches	Choke Constant: C			
0.750	12.365			

Shut-In Pressure, Casing, PSIG	+12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing PSIG	+12 = PSIA
2005	2017		1802	1814

Flowing Pressure: P PSIG	+12 = PSIA		Working Pressure: P_w PSIG	+12 = PSIA
96	108		967	979

Temperature:	n =	Fpv (From Tables)	Gravity
T = 63°F Ft= .9971	.75	1.009	.655 Fg = .9571

CHOKE VOLUME = $Q = C \times P_t \times F_t \times F_g \times F_{pv}$

$$Q = (12.365)(108)(.9971)(.9571)(1.009) = \underline{1286} \text{ MCF/D}$$

OPEN FLOW = $Aof = Q \left(\dfrac{P_c^2}{P_c^2 \quad P_w^2} \right)^n$

NOTE: There was a light spray of oil throughout test, a heavy spray of water near end of test.

$$Aof = \left(\frac{4068289}{3109848} \right)^n = (1286)(1.3082)^{.75} = (1286)(1.2232)$$

$Aof = \underline{1573} \text{ MCF/D}$

TESTED BY _____

WITNESSED BY _____

John A. Jones
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