

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 9-11-78

Operator Northwest Production Corp.		Lease Jicarilla 152 W #1 (OWWO)	
Location SW 7-26-5		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5 1/2	Set At: Feet 7615'	Tubing: Diameter 2 3/8	Set At: Feet 7431'
Pay Zone: From 7338	To 7420	Total Depth: 7615	Shut In 9-1-78
Stimulation Method Gel-F		Flow Through Casing	Flow Through Tubing XX

Meter Choke Constant: C		Well tested through 3/4" variable choke	
Choke Size, Inches 4" MR	2.50 orifice 32.64	Shut-In Pressure, Tubing PSIG	12 = PSIA
Shut-In Pressure, Casing, PSIG	12 = PSIA	1907	1919
Days Shut-In 10		Working Pressure: Pw PSIG	12 = PSIA
Flowing Pressure: P MR 5 WH 46	12 = PSIA	Calculated	89
Temperature: T = 58 °F	F _t = 1.0019	F _{pv} (From Tables) 1.004	Gravity .650 F _g = 1.240

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

$$Q = \text{Calculated from orifice meter readings} = 418 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = Q \left(\frac{3682561}{3674640} \right)^n = (1.0022)^{.75} = (418) = (1.0016)(418)$$

$$Aof = 419 \text{ MCF/D}$$

Note: The well produced 18 bbls. of 62° A.P.I. oil and 10 bbls. of water & vented 31 MCF gas to the atmosphere during the test.

TESTED BY L. Nations

WITNESSED BY Al Rector

[Signature]
Well Test Engineer

