EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE January 3, 1962

Operator: J. Glen Turner		Lease: Ballard No. 14-14	
Location: 1850'S, 790'W, Sec. 14-26N-9W		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 5-1/2	Set At: Feet: 6723	Tubing: Diameter: 2-3/8	Set At: Feet: 6400
Pay Zone: From: 6398	To: 6668	Total Depth: 6686	Shut In: 12-20-61
Stimulation Method: Sand/Water Frac.		Flow Through Casing	Flow Through Tubing: X

Choke Size, Inches: .750		Choke Constant: C: 12.365					
Shut-in Pressure, Casing, PSIG: 2083	+ 12 = PSIA: 2095	Days Shut-In: 14	Shut-in Pressure, Tubing PSIG: 2084	+ 12 = PSIA: 2096			
Flowing Pressure: P PSIG: 433	+ 12 = PSIA: 445		Working Pressure: P_w PSIG: 968	+ 12 = PSIA: 980			
Temperature: T 84 F	n: .9777	.75	Fpv (From Tables): 1.043	Gravity: .670	Fg	.9463	

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

$Q = 12.365 \times 445 \times .9777 \times .9463 \times 1.043 = 5310$ MCF D

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

$Aof = \left(\frac{4,393,216}{3,432,816} \right)^n$ $(1.2797)^{.75} (5310) = (1.2030)(5310)$

Aof 6388 MCF D

RECEIVED APR 9 1962 OIL CON.

NOTE: Blew fair mist of oil & water throughout whole test, evidence of some paraffin.

Witnessed by: D. E. Mortenson

Company: Al Johnson (J. Glen Turner)

Checked by: W. D. Dawson

Lewis D. Galloway

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