

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE November 16, 1961

Operator El Paso Natural Gas Company		Lease Howell "J" No. 4	
Location 1500'S, 850'W, Sec. 3-30-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4-1/2	Set At: Feet 5416	Tubing: Diameter 2-3/8	Set At: Feet 5381
Pay Zone: From 4915	To 5408	Total Depth: 5424 B.P. 5411	Shut In 11-9-61
Stimulation Method Sand/Water Frac.		Flow Through Tubing X	

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 935	+ 12 PSIA 947	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 935
Flowing Pressure: P, PSIG 259	+ 12 PSIA 271		Working Pressure: P _w , PSIG 804
Temperature: 66 F	.9943		Gravity Est. .720
	.75		Fg .9129
			1.032

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = (12.365)(271)(.9943)(.9129)(1.032)$$

3139

MCF/D

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

$$A_{of} = \left(\frac{896,809}{230,953} \right)^n$$

$$(3.8830)^{.75} (3139) = (2.7662)(3139) \text{ DIL CON. COM. DIST. 3}$$

$A_{of} = 8683$ MCF/D



NOTE: Blew fair mist for first half of test then slight mist remainder of test.

TESTED BY D. E. Mortensen

WITNESSED BY

Checked by: W. D. Dawson

Lewis D. Galloway
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