EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE August 3, 1964

Operator: El Paso Natural Gas Company		Lease: Howell No. 2-A (OWWO)	
Location: 990'S, 1650'W, Sec. 5, T-30-N, R-8-W		County: San Juan	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 4.500	Set At: Feet: 5478	Tubing: Diameter: 2.0625	Set At: Feet: 5376
Pay Zone: From: 4943	To: 5425	Total Depth: 5480	Shut In: 7-27-64
Stimulation Method: Sand Water Frac.		Flow Through Casing: X	Flow Through Tubing:

Choke Size, Inches: 0.750		Choke Constant: C: 12.365					
Shut-In Pressure, Casing: 963	PSIG + 12 = PSIA: 975	Days Shut-In: 7	Shut-In Pressure, Tubing: 963	PSIG + 12 = PSIA: 975			
Flowing Pressure: P: 166	PSIG + 12 = PSIA: 178		Working Pressure: P_w: 656	PSIG + 12 = PSIA: 668			
Temperature: T: 67	Ft: .9933	n: .75	Fpv (From Tables): 1.016	Gravity: .653	Fg: .9608		

CHOKE VOLUME: Q = C × P_t × F_t × F_g × F_{pv}

Q = (12.365)(178)(.9933)(.9608)(1.016) = 2134 MCF/D

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

Aof = $\left(\frac{950625}{504401}\right)^n$ (2134)(1.8846)$^{.75}$ = (2134)(1.6090)

Aof = 3434 MCF/D

RECEIVED
AUG 5 1964
OIL CON. COM.
DIST. 3

TESTED BY: Jess B. Goodwin

Calculated ~~XXXXXXXX~~ BY: Hermon E. McAnally

Checked by: Tom B. Grant

Lewis D. Galloway

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