EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

CORRECTED COPY

DUAL COMPLETION CORRECTED COPY DATE February 20, 1964

Operator: El Paso Natural Gas Company		Lease: Turner Hughes No. 1A (DK)	
Location: 1783'N, 1090'E, Sec. 4, T-27-N, R-9-W		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7129	Tubing: Diameter: 2.0625	Set At: Feet: 6871
Pay Zone: From: 6907	To: 7014	Total Depth: 7129	Shut In: 2-10-64
Stimulation Method: Sand Water Frac.		Flow Through Casing	Flow Through Tubing: X

Choke Size, Inches: 0.750	Choke Constant: C: 12.365	Packer set at 4965'.	
Shut-in Pressure, Casing: (MV) 963 PSIG	+ 12 = PSIA: 975	Days Shut-In: 10	Shut-in Pressure, Tubing: (DK) 1954 PSIG + 12 = PSIA: 1966
Flowing Pressure: P: 128 PSIG	+ 12 = PSIA: 140		Working Pressure: P_w: (Calc.) PSIG + 12 = PSIA: 392
Temperature: T 65 F	F_t: .9952	F_g: .75	Fpv (From Tables): 1.018	Gravity: .750 F_g: .8944

Initial SIPT (MV) = 966 psig
Final SIPC (MV) = 967 psig

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

Q = (12.365)(140)(.9952)(.8944)(1.018) = 1569 MCF D

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

Aof = $\left(\frac{3865156}{3711492}\right)^n$ (1569)(1.0414)$^{.75}$ - (1569)(1.0309)

NOTE: Unloaded large slug of water right after opening, then produced slugs of oil throughout remainder of test.

Aof = 1617 MCF D

RECEIVED
MAR 10 1964
OIL CON. COM.
DIST. 3

TESTED BY R. F. Headrick & D. E. Mortensen
Calculated by
[redacted] BY W. D. Dawson

Checked by Tom B. Grant

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