

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE August 20, 1963

Lease El Paso Natural Gas Company		Lease Huerfano No. 138	
Location 300'N, 800'W, Sec. 22, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Wellbore Diameter 4.50	Set At Feet 6685	Tubing Diameter 2.375	Set At Feet 6590
Casing Depth 6410	6612	Total Depth 6692	Shut In 8-12-63
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Pressure Constant (C) 0.75	Days Shut-In 8	Shut-In Pressure, Tubing 1912	PSIG 1924
Pressure, Casing 1906	PSIG 1918	Working Pressure, Pw 351	PSIG 363
Pressure, P 109	PSIG 121	Eqv (From Tables) 1.011	Gravity .690
Temperature 74	Ft. .9868	.75	Ft. .9325

CHOKED VOLUME $Q = C \times P \times E \times E_d \times E_{pv}$

$$Q = (12.365)(121)(.9868)(.9325)(1.011)$$

1392

MCF/D

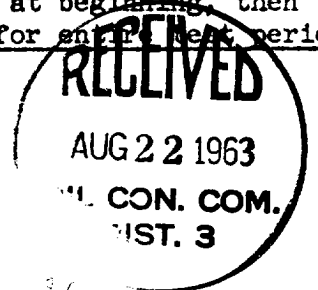
$$OPEN FLOW Aof = Q \left(\frac{P^2 - P_w^2}{P^2 - P_a^2} \right)^n$$

$$Aof = \left(\frac{3,701,776}{3,570,007} \right)^n (1.0369)^{.75} (1392) = (1.0275)(1392)$$

Aof 1430

MCF/D

NOTE: Unloaded oil at beginning, then slugged oil for entire test period.



D. Roberts & D. Mortensen

Checked by ~~XXXXXXXXXX~~ T. B. Grant

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