

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 14, 1963

Operator El Paso Natural Gas Company		Lease San Juan Unit 32-7 No. 39 (DK)	
Location 1650'S, 1840'W, Sec. 23-32-7		County San Juan	State New Mexico
Formation Basin		Pool Dakota	
Casing: Diameter 4"	Set At: Feet 8265	Tubing: Diameter 2.0625	Set At: Feet 8114
Pay Zone: From 8096	To 8222	Total Depth: 8266	Shut In 8-7-63
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.75		Choke Constant: C 12.365		Baker Model "N" Packer at 6011'.	
Shut-In Pressure, Casing, 1082 (MV)	PSIG	+ 12 = PSIA 1094	Days Shut-In 7	Shut-In Pressure, Tubing 2509 (DK)	PSIG
Flowing Pressure: P 82	PSIG	+ 12 = PSIA 94		Working Pressure: P _w Calculated	PSIG
Temperature: 77 °F		n 0.750		F _{pv} (From Tables) 1.010	Gravity .700
F _t = .9840					F _g = .9258

INITIAL SIPT (MV) 1082 psig

FINAL SIPC (MV) 1088 psig

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

$$Q = (12.365)(94)(.9840)(.9258)(1.010)$$

1069

MCF/D

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

$$Aof = \left(\frac{6,355,441}{6,279,265} \right)^n (1.0121)^{.75} (1069) = (1.0091)(1069)$$

Aof = 1079 MCF/D

NOTE: Unloaded large slug of water,
distillate and sand after 5 minutes.
Then blew medium fog. DK is very wet.

TESTED BY Don MortensenCalculated by: T. B. Grant, Jr.~~XXXXXXXXXX~~

RECEIVED
AUG 21 1963
CON. COM.
DIST. 3
Lewis D. Galloway
Lewis D. Galloway