

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 3, 1961

Operator El Paso Natural Gas Company	Lease Jicarilla "D" No. 8
Location 1095'N, 1820'W, Sec. 30-25N-4W	County Rio Arriba State New Mexico
Formation Pictured Cliffs	Pool So. Blanco
Casing Diameter 2-7/8" Set Air Feet 3674	Tubing Diameter No Tubing Set Air Feet ----
Pay Zone From 3561 To 3618	Total Depth 3650 Shut In 10-26-61
Stratification Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing ----

Stroke Size, Inches .75	Stroke Constant 12.365	TUBINGLESS COMPLETION
Shut-In Pressure, PSIG 848	PSIG 12 PSIA 860 Days Shut In 8	Shut-In Pressure, Tubing No Tubing PSIG 12 PSIA ----
Flowing Pressure, PSIG 69	PSIG 12 PSIA 81	Working Pressure, P _w (Calc.) PSIG 12 PSIA 105
Temperature, °F 54	1.0058 .85	Flow from Tubing 1.009 Gravity .678 F _g .9427

$$\text{JOKE VOLUME} = C \times P_1 \times F_1 \times F_g \times F_{rv}$$

$$C (12.365)(81)(1.0058)(.9427)(1.009)$$

958

MCF/D

$$\text{OPEN FLOW} = A \times Q \left(\frac{P_1^2 - P_w^2}{P_1^2 - P_w^2} \right)^n$$

$$A \times Q \left(\frac{739,600}{728,575} \right)^n$$

$$(958)(1.0151)^{.85} = (958)(1.0128)$$

Act

970

MCF/D

By: **R. F. Headrick**

Witnessed by:

Calculated by: **W. D. Dawson**



Lewis D. Galloway
Lewis D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 3, 1961

Operator El Paso Natural Gas Company		Lease Jicarilla "D" No. 8	
Location 1095'N, 1820'W, Sec. 30-25N-4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2-7/8"	Set At: Feet 3674	Tubing: Diameter No Tubing	Set At: Feet ----
Pay Zone: From 3561	To 3618	Total Depth: 3650	Shut In 10-26-61
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		TUBINGLESS COMPLETION	
Shut-In Pressure, Casing, PSIG 848	+ 12 = PSIA 860	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 69	+ 12 = PSIA 81		Working Pressure: Pw (Calc.) 103	+ 12 = PSIA 115	
Temperature: T 54 °F	Ft 1.0058		Fpv (From Tables) 1.009	Gravity .678	Fg = .9427

CHOKE VOLUME = $Q \cdot C \times P_i \times F_t \times F_g \times F_{pv}$

$$Q = (12.365)(81)(1.0058)(.9427)(1.009)$$

= 958 MCF/D

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

$$A_{of} = \left(\frac{739,600}{728,575} \right)^n = (958)(1.0151)^{.85} = (958)(1.0128)$$

Aof 970 MCF/DTESTED BY R. F. Hendrick

WITNESSED BY _____

Calculated by: W. D. Dawson

Lewis D. Gallaway
Lewis D. Gallaway