FORM 29-7SR (REV. 1-63)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION DATE May 27, 1965

Operator: El Paso Natural Gas Company		Lease: San Juan 29-5 Unit No. 32 (MV) (OWWO)	
Location: 990'S, 1500'W, Section 29, T-29-N, R-5-W		County: Rio Arriba	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 7.000	Set At: Feet: 7625	Tubing: Diameter: 1.660	Set At: Feet: 5681
Pay Zone: From: 5290	To: 5724	Total Depth: 8032	Shut In: 5-11-65
Stimulation Method: Sand Water Frac		Flow Through Casing: X	Flow Through Tubing:

Choke Size, Inches: .750	Choke Constant: C: 12.365	Baker Model "D" Packer set at 5778 ft.	
Shut-in Pressure, Casing, PSIG: (MV) 959	+ 12 = PSIA: 971 / Days Shut-In: 16	Shut-in Pressure, Tubing PSIG: (MV) 955	+ 12 = PSIA: 967
Flowing Pressure: P PSIG: 371	+ 12 = PSIA: 383	Working Pressure: P_w PSIG: 401	+ 12 = PSIA: 413
Temperature: T = 72 °F, F_t = .9887	n = .75	Fpv (From Tables): 1.035	Gravity: .650, F_g = .9608

ISIPT (DK) = 1616 psig
FSIPT (DK) = 1630 psig

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

$Q = (12.365)\ (333)\ (.9887)\ (.9608)\ (1.036) =$ 4661 MCF/D

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

$$Aof = \left(\frac{942,841}{772,272} \right)^n = (1.2208)\ (4661)^{.75} = (4661)\ (1.1615)$$

$Aof =$ 5414 MCF/D

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DIST. 3

TESTED BY D. Norton

CALCULATED BY C. R. Wagner

~~WITNESSED BY~~

CHECKED BY W. D. Dawson

Lewis D. Galloway

Lewis D. Galloway

FORM 22-GR (REV. 1-63)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 20, 1965

Operator: El Paso Natural Gas Company		Lease: San Juan 29-5 Unit No. 32 (DK) (OWWO)	
Location: 990'S, 1500'W, Section 29, T-29-N, R-5-W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 5.000	Set At: Feet: 8029	Tubing: Diameter: 2.375	Set At: Feet: 7814
Pay Zone: From: 7775	To: 7872	Total Depth: 8032	Shut In: 5-13-65
Stimulation Method: Sand Water Frac		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: .750		Choke Constant: C: 12.365		Baker Model "D" Packer set at 5778 ft.	
Shut-In Pressure, Casing, PSIG: 926 (MV)	+ 12 = PSIA: 938	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 1487 (DK)	+ 12 = PSIA: 1499	
Flowing Pressure: P PSIG: 131	+ 12 = PSIA: 143		Working Pressure: Pw PSIG: Calc.	+ 12 = PSIA: 317	
Temperature: T= 67 °F	Ft= .9933	n = .75	Fpv (From Tables): 1.011	Gravity: .601	Fg = 1.000

ISIPT (MV) = 924 psig
FSIPC (MV) = 931 psig

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

Q = (12.365) (143) (.9933) (1.000) (1.011) = 1,776 MCF/D

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

Aof = $\left(\frac{2,247,001}{2,146,512} \right)^n$ = (1776) (1.0468)$^{.75}$ = (1776) (1.0349)

Aof = 1,838 MCF/D

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NOTE: Well produced a light spray of distillate and water throughout the test.

TESTED BY D. R. Roberts

CALCULATED BY H. E. McAnally

CHECKED BY W. D. Dawson

Lewis D. Galloway

Lewis D. Galloway