OPEN FLOW TEST DATA

DUAL COMPLETION DATE March 24, 1959

Operator: El Paso Natural Gas		Lease: San Juan 27-5 No. 43 (P)	
Location: 1000S, 990W; 24-27-5		County: Rio Arriba	State: New Mexico
Formation: Pictured Cliffs		Pool: South Blanco	
Casing: O.D. 7-5/8	Set At: Feet 3571	Tubing: O.D. 1-1/4	Set At: Feet 3448
Perforations: From 3410	To 3460	Total Depth: 5756	Shut In 3/7/59
Stimulation Method: Sand Water Frac.		Flow Through: Casing X	Flow Through: Tubing

Choke Size, Inches: .75	Choke Constant: C 12.365			Completion: 5-1/2 liner 3501 - 5753	
Shut-In Pressure, Casing: (PC) 971	PSIG + 12 = PSIA 983	Days Shut-In 17		Shut-In Pressure, Tubing: (PC) 973	PSIG + 12 = PSIA 985
Flowing Pressure: P 206	PSIG + 12 = PSIA 218			Working Pressure: P_w 215	PSIG + 12 = PSIA 227
Temperature: T 60	F n .850			Fpv (From Tables) 1.020	Gravity .645

Initial SIPT (MV) = 1097 psig
Final SIPT (MV) = 1100 psig

Packer at 3565

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

Q = 12.365 x 218 x .9645 x 1.020 x 1.0000 = 2652 MCF D

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

$$\left(\frac{970225}{918696}\right)^n \quad 1.0560^{.85} \times 2652 = 1.0474 \times 2652$$

ABSOLUTE OPEN FLOW 2778 MCF D

RECEIVED
APR 17 1959
OIL CON. COM.
DIST. 3

R. R. Davis

L. D. Galloway by H.L.H.
L. D. Galloway

OPEN FLOW TEST DATA

DUAL COMPLETION DATE March 17, 1959

Operator: El Paso Natural Gas		Lease: San Juan 27-5 No. 43 (M)	
Location: 1000S, 990W; 24-27 5		County: Rio Arriba	State: New Mexico
Pool: Mesa Verde		Pool: Blanco	
Casing Diameter: 7-5/8	Set At: Feet: 3571	Tubing Diameter: 2"	Set At: Feet: 5603
Perf. Zone: From: 5552	To: 5630	Total Depth: 5756	Shut in 3/7/59
Stimulation Method: Sand Water Frac.		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: .75	Choke Constant: C: 12.365	5-1/2 liner 3501 - 5753	
Shut-in Pressure, Casing: (PC) 934	PSIG + 12 = PSIA: 946	Days Shut-in: 8	Shut-in Pressure, Tubing: (MV) 1088 PSIG + 12 = PSIA: 1100
Flowing Pressure: P: 196 PSIG + 12 = PSIA:	208	Working Pressure: Pw: Calc. 404 PSIG + 12 = PSIA:	416
Temperature: 62	n: .75	Fpv (From Tables): 1.021	Gravity: .674

Initial SIPT (PC) = 933 psig
Final SIPC (PC) 938 psig

Packer at 3565

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

$12.365 \times 208 \times .9981 \times .9463 \times 1.021 = 2480$ MCF D

OPEN FLOW A.O.F. = $\left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

$\left(\frac{1210000}{1036944} \right)^n$ $1.1668^{.75} \times 2480 = 1.1225 \times 2480$

A.O.F. 2784 MCF D

M. W. Rischard

WITNESSED

L. D. Galloway

L. D. Galloway by H. L. K.