DUAL COMPLETION

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE / September 17, 1957

Operator: El Paso Natural Gas Company		Lease: San Juan 28-7 Unit No. 73	
Location: 990'N, 1090'E, Sec. 28-28-7		County: Rio Arriba	State: New Mexico
Formation: Pictured Cliffs		Pool: Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 2864	Tubing: Diameter 1-1/4	Set At: Feet 2764
5-1/2 liner -	2791 to 5059		
Pay Zone: From 2680	To 2724	Total Depth: 5062 - c/o - 4990	
Stimulation Method: Sand Water Frac.		Flow Through Casing: X	Flow Through Tubing

Choke Size, Inches: .750		Choke Constant: C 12.365					
Shut-in Pressure, Casing: PC 939	PSIG	+ 12 = PSIA 951	Days Shut-in 12	Shut-in Pressure, Tubing: PC - 939	PSIG	+ 12 = PSIA 951	
Flowing Pressure: P PC Casing - 81	PSIG	+ 12 = PSIA 93		Working Pressure: P_w 82	PSIG	+ 12 = PSIA 94	
Temperature: T 74	F n	.850		Fpv (From Tables) 1.006		Gravity .645	

Starting SIPT MV - 1048 psig; Final - 1049 psig. Packer at 2869. Sleeve at 2676

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

$Q = 12.365 \times 93 \times .9868 \times .9645 \times 1.006 = 1101$ MCF D

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

$Aof = \left(\frac{904,401}{895,565} \right)^n \quad 1.0098^{.85} \times 1101 = 1.0083 \times 1101$

Aof 1110 MCF D

Dick Ullrich and Bob Davis

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cc: E. S. Oberly (6)

L. D. Galloway

DUAL COMPLETION

FORM 3-1-75 (6-58)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE September 26, 1957

Operator: El Paso Natural Gas Company		Lease: San Juan 28-7 Unit No. 73	
Location: 990'N, 1090'E, Sec. 28-28-7		County: Rio Arriba	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 7-5/8	Set At: Feet: 2864	Tubing: Diameter: 2	Set At: Feet: 4969
Pay Zone: From: 4338	To: 4980	Total Depth: 5062 - c/o 4990	
Stimulation Method: Sand Water Frac.		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: 0.75		Choke Constant: C: 12.365		5-1/2" liner at 2791 to 5059	
Shut-In Pressure, Casing, PSIG: PC 980	+ 12 = PSIA: 992	Days Shut-In: 21	Shut-In Pressure, Tubing PSIG: 1071	+ 12 = PSIA: 1083	
Flowing Pressure: P PSIG: 371	+ 12 = PSIA: 383		Working Pressure: P_w PSIG: Calculated	+ 12 = PSIA: 740	
Temperature: T °F: 72	n: .75		Fpv (From Tables): 1.039	Gravity: .670	

Final SIPC (PC) - 983 psig; packer at 2869; Garrett sleeve at 2676

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

$Q = 12.365 \times 383 \times .9887 \times .9463 \times 1.039 = 4604$ MCF/D

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

Aof = $\left(\frac{1,172,889}{625,289} \right)^n = 1.8757^{.75} \times 4604 = 1.6030 \times 4604$

Aof = 7380 MCF/D

TESTED BY R. A. Ullrich

WITNESSED BY

cc: E. S. Oberly (6)

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