EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE September 6, 1977

Operator: El Paso Natural Gas Company		Lease: Kimball Com #1	
Location: NW 23-25-06		County: Rio Arriba	State: New Mexico
Formation: Pictured Cliffs		Pool: So. Blanco	
Casing: Diameter: 2 7/8	Set At: Feet: 2735'	Tubing: Diameter: T/C	Set At: Feet:
Pay Zone: From: 2524	To: 2548	Total Depth: 3572	Shut In: 8-23-77
Stimulation Method: Sandwater Frac		Flow Through Casing: XX	Flow Through Tubing:

Choke Size, Inches: .750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 876	+ 12 = PSIA: 888	Days Shut-In: 14	Shut-In Pressure, Tubing PSIG:	+ 12 = PSIA:	
Flowing Pressure: P PSIG: 1#	+ 12 = PSIA: 13		Working Pressure: P_w PSIG: Calc.	+ 12 = PSIA: 16	
Temperature: T= 62 °F	Ft= .9981	n = .85	Fpv (From Tables): 1.004	Gravity: .670	Fg = .9463

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

$Q = 12.365(13)(.9981)(.9463)(1.004) = 152$ MCF/D

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

$Aof = Q \left(\frac{788544}{788288} \right)^n = 152(1.0003)^{.85} = 152(1.0003)$

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DIST. 3

Aof = 152 MCF/D

Note: Well blew dry gas throughout test. Well vented 23 MCF of gas to the atmosphere during test.

TESTED BY L. Nations

WITNESSED BY

C. R. Wagner

Well Test Engineer