

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 24, 1961

Operator El Paso Natural Gas Company	Lease Mudge No. 13 (OWDD) (DK)
Location 1500'N, 1775'E, Sec. 20-31N-11W	County San Juan State New Mexico
Formation Dakota	Pool Basin
Casing Diameter 7" O.D. Set At Feet 4904	Tubing Diameter 2-1/16" O.D. Textube Set At Feet 7249
Pay Zone: From 7146 To 7248	Total Depth 7423 C/O 7380 Shut In 6-27-61
Stimulation Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365	4", 11.34 lbs., Hydril Liner from 5158 to 7407 Prod. Pkr. at 5148.
Shut-In Pressure, Casing, PSIG 612 (MV)	12 PSIA Days Shut-In 27	Shut-In Pressure, Tubing, PSIG 1927 (DK) 12 PSIA 1939
Flowing Pressure, P, PSIG 153	12 PSIA 165	Working Pressure, Pw, PSIG 474 12 PSIA
Temperature 68 F	n .9924 .750	Calc. working press. 1.015 Gravity .650 Fg .9608

Initial SIPT (MV) 612 psig

Final SIPC (MV) 614 psig

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = (12.365)(165)(.9924)(.9608)(1.015)$$

1975

MCF/D

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

$$A_{of} = \left(\frac{3,759,721}{3,535,045} \right)^n (1.0635)^{.75} (1975) = (1.0473)(1975)$$

A_{of} 2068

MCF/D



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Witnessed by

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