

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 4-22-70

Operator El Paso Natural Gas Co.		Lease San Juan 32-9 Unit No. 34 OLEO	
Location 1550S, 1450W, S35, T32N, R10W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5579	Tubing: Diameter 2.375	Set At: Feet 5408
Pay Zone: From 1248	To 5508	Total Depth: 5579	Shut In 4-14-70
Stimulation Method SNF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" MR 2.750 orifice		Choke Constant: C 41.9208		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 735	+ 12 = PSIA 747	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 545	+ 12 = PSIA 557	
Flowing Pressure: P PSIG 275 WH 93 MR	+ 12 = PSIA 287 WH 105 MR		Working Pressure: P _w PSIG 634	+ 12 = PSIA 646	
Temperature: T = 83 °F	Ft = .9786	n = .75	Fpv (From Tables) 1.008	Gravity .660	Fg = 1.2300

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

$$Q = \text{calculated from orifice meter reading} = 2853 \text{ MCF/D}$$

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

Note: Well produced 8.31 bbl of 34.3 API gravity oil during test.

$$Aof = \left(\frac{558009}{140693} \right)^n = (3.9661)^{.75} 2853 = (2.8104)(2853)$$

$$Aof = 8018 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

H. L. Kendrick
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