

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE January 25, 1966

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 143	
Location 1650'S, 1650'E, Section 9, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6763	Tubing: Diameter 2.375	Set At: Feet 6636
Pay Zone: From 6496	To 6682	Total Depth: 6763	Shut In 1-08-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

<del>Choke Pressure</del> Meter 2-1/2" Plate, 4" M.R.		<del>Choke Pressure</del> Meter 33.293 Constant		Tested through 3/4" variable choke	
Shut-In Pressure, Casing, 1944	PSIG	+ 12 = PSIA 1956	Days Shut-In 17	Shut-In Pressure, Tubing 1444	PSIG
					+ 12 = PSIA 1456
Flowing Pressure: P Meter-37; W.H.-119	PSIG	+ 12 = PSIA Meter-49; W.H.-131		Working Pressure: P <sub>w</sub> 460	PSIG
					+ 12 = PSIA 472
Temperature: T = 63 °F		n = .75		Fpv (From Tables) 1.004	Gravity .700
	F <sub>r</sub> = .9971				F <sub>g</sub> = 1.1952

CHOKE VOLUME = Q = ~~Choke Pressure~~Q = Calculated from orifice meter reading = 1,230 MCF/D

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

$$A_{of} = \left( \frac{3,825,936}{3,603,152} \right)^n = (1230) (1.0618)^{.75} = (1230) (1.0460)$$

A<sub>of</sub> = 1,287 MCF/D

NOTE: Well made 49 bbls of oil in the stock tank and unloaded some oil and water to the atmosphere.

TESTED BY W.D.Dawson & R.F.HeadrickCHECKED BY T.B.Grant

Lewis D. Galloway  
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