

OPEN FLOW TEST DATA

DATE February 20, 1969

Operator El Paso Natural Gas		Lease Huerfano Unit No. 54	
Location 1840'N, 1100'W, S27, T-26N, R-9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6713	Tubing: Diameter 2.375	Set At: Feet 6396
Pay Zone: From 6413	To 6635	Total Depth: 6713	Shut In 2-03-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Plate Choke Size, Inches 4" M.R. 2.750 Plate		Choke Constant: C 41.9208		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1951	+ 12 = PSIA 1963	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 1951	+ 12 = PSIA 1963	
Flowing Pressure: P PSIG 330 W.H.; 96 M.R.	+ 12 = PSIA 342 W. H. ; 108		Working Pressure: P _w PSIG 793	+ 12 = PSIA 805	
Temperature: T = 91 °F	n = .75		Fpv (From Tables) 1.009	Gravity 0.700	Fg = 1.1952

CHOKE VOLUME = Q = C × P_i × F_i × F_g × F_{pv}

Q = Calculated from orifice meter readings = 3,152 MCF/D

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

$$Aof = \left(\frac{3853369}{3205344} \right)^n = (3152)(1.2021)^{.75} = (3152)(1.1480)$$

Note: The well produced 38.04 bbls. of 48.4 API gravity oil and 53.70 bbls. of water into the tank during the test.

Aof = 3618 MCF/D

TESTED BY BS & DRR

Calculated
WITNESSED BY HEM

H. L. Kendrick
H. L. Kendrick

EL PASO NATURAL GAS COMPANY

DEVIATION REPORT

Name Of Company El Paso Natural Gas Company				Address Box 990, Farmington, New Mexico - 87401			
Lease Huerfano Unit	Well No. 54	Unit Letter E	Section 27	Township 26N	Range 9W		
Pool Basin Dakota				County San Juan			

DEPTH

724'
1165'
1670'
2455'
2949'
3259'
3623'
4145'
4768'
5441'
6133'
6559'

DEVIATION

3/4°
1°
1 1/4°
1/2°
1/2°
3/4°
1 3/4°
1 3/4°
1/2°
1/2°
1/2°
1 3/4°



I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer of El Paso Natural Gas Company, am authorized by said Company to make this report; and that this report was prepared by me or under my supervision and directions and that the facts stated therein are true to the best of my knowledge and belief.

Carl E. Matthews

Subscribed and sworn to before me this 26th day of February, 1969.

Don G. Briscoe

Notary Public in and for San Juan County, New Mexico

My commission expires October 5, 1972.