

ALPHA NATURAL GAS COMPANY OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 19, 1959

Operator El Paso Natural Gas		Lease San Juan 30-5 Unit No. 27-20 (D)	
Location 1090S, 890W; 20-30-5		County Rio Arriba	State New Mexico
Formation Dakota		Undesignated	
Casing Diameter 5	Set At Feet 7882	Tubing Diameter 2	Set At Feet 7638
Pay Zone From 7646	To 7820	Total Depth 7890 c/o 7710	Shut In: 10/28/59
Stimulation Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .75	Choke Constant, C 12.365	5" liner 7433 - 7882	
Shut-In Pressure, Casing (MV) 1101	PSIG 1113	Shut-In Pressure, Tubing (Dak) 2596	PSIG 2608
Flowing Pressure, P (Dak) 92	PSIG 104	Working Pressure, Pw Calc. 229	PSIA 229
Temperature, T 65	F .75	Exp. From Tables 1.006	Gravity .584

Initial SIPT (MV) = 1098 psig

Final SIPC (MV) = 1104 psig

Baker Model "D" Packer at 7397

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_v$

$$12.365 \times 104 \times .9952 \times 1.017 \times 1.006$$

1309

MCF/D

$$Q = \left(\frac{P_1^2 - P_2^2}{P_0^2 - P_A^2} \right)^n$$

$$Q = \left(\frac{6801664}{6749223} \right)^n$$

$$1.0077^{.75} \times 1309 = 1.0058 \times 1309$$

Aof 1317

MCF/D

W. D. Dawson

W.B. Smith (Phillips) R. Wagner (PNW)



Lewis D. Galloway
L. D. Galloway

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 1

FLOW TEST NO. 1	Enter an "X" in the box for "Upper" or "Lower" Lower	Hour & Date Flow Started 11/19/59
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REMARKS:

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER COMPLETION:	Hour & Date Well Shut-in	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure (Yes or No)
LOWER COMPLETION:	Hour & Date Well Shut-in	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure (Yes or No)

FLOW TEST NO. 2

LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	SHUT-IN ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
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OIL PRODUCED	Total Bbls.	Number of Days	Oil Weight	Gravity	Gas-Oil Ratio
	BBL/D				
GAS PRODUCED	Barrel of Oil	Tested (Cubic Feet)	Tested (Cubic Feet)		
	MCF/D (Choke or Meter)				

REMARKS

The results of this test indicate (No Packer Leakage) ~~XXXXXXXXXXXX~~ in this well.

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved *11-23 1959*
NEW MEXICO OIL CONSERVATION COMMISSION
BY: *Ernest T. Arnold*
TITLE: *El Paso Natural Gas*
H. L. Kendrick
Gas Engineer

TITLE:

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