

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

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DUAL COMPLETION

DATE January 21, 1960

Operator El Paso Natural Gas		Lease Huerfano Unit No. 108 (G)	
Location 1650N, 1040W; 1-26-10		County San Juan	State New Mexico
Formation Gallup		Pool Undesignated	
Casing Diameter 7	Set At Feet 7044	Tubing Diameter 2	Set At Feet 6205
Pay Zone From 5899	To 6178	Total Depth 7040 c/o 6957	Shut-In Re: SI 1/14/60
Stimulation Method Sand Oil Frac.		Flow Through Tubing X	

XXXXXXXXXX		XXXXXXXXXX	
2.5 Orifice 4" MR		M.R. Const. 33.293	
Shut-In Pressure: P _{si} (G) 1142	PSIG - 12 PSIA 1154	Days Shut-In 7	Shut-In Pressure: P _{si} (G) 852
Flowing Pressure: P _{si} W.H. 123 M.R. 86	PSIG - 12 PSIA W.H. 135 M.R. 98	Working Pressure: P _w (G Csg.) 446	PSIG - 12 PSIA 458
Temperature: 80	.9813	Spv. from Tables: 1.008	Gravity .698
.75		Fig. 1.1969	

Initial SIPT (D) = 1907 psig

Packer at 6280

Final SIPT (D) = 1922 psig

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_2 \times F_{pv}$

Q Calculated from Orifice Meter Rdg.

1079

MCF/D

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

Produced 32.4 Bbls of oil in a 3 hr. test.

$Aof = \left(\frac{1331716}{1121952} \right)^n$

$1.1869^{.75} \times 1079 = 1.1370 \times 1079$

Aof 1227

MCF/D



NOTED BY W. D. Dawson, S.V. Roberts, J. Goodwin

WITNESSED BY

Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE January 7, 1960

Operator El Paso Natural Gas		Lease Embarfano Unit No. 108 (D)	
Location 1650N, 1040W; 1-26-10		County San Juan	State New Mexico
Formation Dakota		Pool Undesignated	
Casing: Diameter 7	Set At: Feet 7044	Tubing: Diameter 2	Set At: Feet 6838
Pay Zone: From 6757	To 6887	Total Depth: 7040 c/o 6957	Shut In 12/24/59
Stimulation Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

Orifice Meter 3" Plate, 4" M. R.		Orifice Meter Const. 52.678		Tested through 3/4" variable choke	
Shut-in Pressure, Casing, (G) 1125	PSIG - 12 PSIA 1137	Days Shut-In 14	Shut-In Pressure, Tubing (D) 1877	PSIG - 12 PSIA 1889	
Flowing Pressure P (At Meter) 346; W.H. 416	PSIG - 12 PSIA (At Meter) 358; W.H. 428	Working Pressure: Pw Calc.	PSIG - 12 - PSIA 863		
Temperature: T 77 F	F_g .9840	F_{pv} (From Tables) 1.043	Gravity .734	F_g = 1.1672	

Initial SIFT (G) = 888 psig
Final SIPC (G) = 1142 psig

Baker "K" packer at 6280

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

Q Calculated from Orifice Meter Reading

4562

MCF/D

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

$$Aof \left(\frac{3568321}{2823552} \right)^n = 1.2637^{.73} \times 4562 = 1.1918 \times 4562$$

Aof **5437** MCF/DTESTED BY **W. D. Dawson, J. Goodvin, D. Mortensen**

WITNESSED BY

Lewis D. Galloway
L. D. Galloway