

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 22, 1962

Operator El Paso Natural Gas Company	Lease Ludwick No. 10 (MV) (OWWO)
Location 990'N, 990'E, Sec. 29-30-10	County San Juan State New Mexico
Formation Mesa Verde	Pool Blanco
Casing Diameter 5-1/2 Set At Feet 5298	Tubing Diameter 1.660 Set At Feet 5080
Flow Line From 4984 To 5094	Total Depth 5315 Shut In 8-10-62
Completion Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing X

Well Size, Inches 0.750	Shake Constant, C 12.365
Initial Pressure, PSIG 460(PC)	PSIG - 12 PSIA Days Shut-In 472 12
Final Pressure, PSIG 64	PSIG - 12 PSIA 76
Temperature 82	Gravity .9795 0.75
	Flow Through Casing 1.008 Flow Through Tubing .650 Fg .9608

Initial SIPT(PC) = 460 psig

Final SIPT(PC) = 460 psig

WELL VOLUME Q = C x P_i x F_i x F_g x F_{pv}

$$Q = (12.365)(76)(.9795)(.9608)(1.008)$$

891

MCF D

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

$$Q = \left(\frac{328,329}{220,745} \right)^n$$

$$(1.4873)^{.75}(891) = (1.3465)(891)$$

Adj

1200

MCF D

T. B. Grant

Checked by: H. E. McAnally



Lewis D. Galloway
Lewis D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 29, 1962

Owner El Paso Natural Gas Company	Lease Ludwick No. 10 (OWWO) (PC)
Location 990'N, 990'E, Sec. 29 T-30-N, R-10-W	County San Juan
State New Mexico	State New Mexico
Well Name Pictured Cliff	Pool Aztec
Well Diameter 7"	Tubing Diameter 1.660
Set At Feet 4607	Set At Feet 2725
Total Depth 2741	Total Depth 4607
Flow Through Casing X	Flow Through Tubing 8-10-62
Sand Water Frac.	

Shut-In Pressure, Casing .750	Shut-In Pressure, Tubing 12.365
PSIG 469 (PC)	PSIG 481
PSIA 102	PSIA 114
Days Shut-In 19 days	Working Pressure: Pw 114
Flow Through Casing 60	Flow Through Tubing 1.010
Gravit. 1.0000	Gravit. .650
Flow Through Casing .85	Flow Through Tubing .9608

ISIPT (MV) 578 psig
FSIPT (MV) 579 psig

Flow Through Casing: $Q_c = \frac{K_c}{L_c} \times (P_c - P_w) \times F_{cv}$

$Q_c = (12.365)(114)(1.0000)(.9608)(1.010)$

1368

MCF/D

$$\left(\frac{P_c^2 - P_w^2}{P_c^2} \right)^n$$

$$\left(\frac{231,361}{215,485} \right)^n$$

$$(1.0736)^{.85} (1368) = (1.0622)(1368)$$

1453

MCF/D

Tom B. Grant

Checked by Herman E. McAnally

Lewis D. Galloway
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