

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

POOL NAME Otero	POOL SLOPE n = .75	FORMATION CH	COUNTY RA
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87-206

COMPANY El Paso Natural Gas Co			WELL NAME AND NUMBER Vaughn No. 11		
UNIT LETTER E	SECTION 28	TOWNSHIP 26	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3679	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3514 TO 3614		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .661	GRAVITY X LENGTH 2323
DATE OF FLOW TEST FROM 12-26-70 TO 1-3-71			DATE SHUT-IN PRESSURE MEASURED 4-29-70		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 202	(b) Flowing Tubing Pressure (DWt) 202	(c) Flowing Meter Pressure (DWt) 202	(d) Flow Chart Static Reading -	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 202
Pressure (g-c) 202	Pressure (b-c) 202	Pressure (b-c) 202	Pressure (b-c) 202	Pressure (b-c) 202	Pressure (b-c) 202	Pressure (b-c) 202

FLOW RATE CORRECTION - METER ERROR

Integrated Volume - MCF/D 124	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 124 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction Neg.	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2 Use Pt2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$ 202
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 124$	$\left[\frac{224360}{581717} \right]^n = .3856$	$\frac{4894}{61} = 61$	MCF/D
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REMARKS:

New well, 1st del. 12-7-70.

SUMMARY

Item h 202 Psia
P_c 789 Psia
Q 124 MCF/D
P_w 202 Psia
P_d 631 Psia
D 61 MCF/D

Company EL PASO NATURAL GAS COMPANY

By H. E. McQuinn

Title

Witnessed By

Company

