

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**WELL DELIVERABILITY TEST REPORT FOR 19 70**

Form C122-A  
 Revised 1-1-66

POOL NAME <b>Otero</b>	POOL SLOPE n = <b>.75</b>	FORMATION <b>CH</b>	COUNTY <b>RA</b>
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87-115

COMPANY <b>El Paso Natural Gas</b>			WELL NAME AND NUMBER <b>Klein No. 13</b>		
UNIT LETTER <b>L</b>	SECTION <b>35</b>	TOWNSHIP <b>26</b>	RANGE <b>6</b>	PURCHASING PIPELINE <b>EPNG</b>	
CASING O.D. - INCHES <b>2.875</b>	CASING I.D. - INCHES <b>2.441</b>	SET AT DEPTH - FEET <b>3588</b>	TUBING O.D. - INCHES <b>None</b>	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM <b>3430</b> TO <b>3528</b>		WELL PRODUCING THRU CASING <b>XX</b> TUBING		GAS GRAVITY <b>.660</b>	GRAVITY X LENGTH <b>2264</b>
DATE OF FLOW TEST FROM <b>1-7-70</b> TO <b>1-15-70</b>			DATE SHUT-IN PRESSURE MEASURED <b>11-25-69</b>		

**PRESSURE DATA - ALL PRESSURES IN PSIA**

(a) Flowing Casing Pressure (DWt) -	(b) Flowing Tubing Pressure (DWt) -	(c) Flowing Meter Pressure (DWt) -	(d) Flow Chart Static Reading -	(e) Meter Error (Item c - Item d) <b>0</b>	(f) Friction Loss (a-c) or (b-c) <b>0</b>	(g) Average Meter Pressure (Integr.) <b>212</b>
(h) Corrected Meter Pressure (g+e) <b>212</b>	(i) Avg. Wellhead Press. P <sub>i</sub> = (h+f) <b>212</b>	(j) Shut-in Casing Pressure (DWt) <b>852</b>	(k) Shut-in Tubing Pressure (DWt) -	(l) P <sub>c</sub> = higher value of (j) or (k) <b>852</b>	(m) Del. Pressure P <sub>d</sub> = <b>80</b> % P <sub>c</sub> <b>682</b>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

**FLOW RATE CORRECTION (METER ERROR)**

Integrated Volume - MCF/D <b>402</b>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ <b>1.0000</b>	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ <b>1.0000</b>	Corrected Volume Q = <b>402</b> MCF/D
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**WORKING PRESSURE CALCULATION**

$(1-e^{-5})$ <b>.152</b>	$(F_c Q_m)^2 (1000)$ <b>4980</b>	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ <b>757</b>	$P_t^2$ <b>44944</b>	$P_w^2 = P_t^2 + R^2$ <b>45701</b>	$P_w = \sqrt{P_w^2}$ <b>214</b>
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**DELIVERABILITY CALCULATION**

$$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{402}{\left( \frac{260780}{680203} \right)^n} = \left( \frac{.3833}{.4871} \right)^n = 196 \text{ MCF/D}$$

REMARKS:

**New Well 1st del. 12-21-69**

**SUMMARY**

Item h	<b>212</b>	Psia
P <sub>c</sub>	<b>852</b>	Psia
Q	<b>402</b>	MCF/D
P <sub>w</sub>	<b>214</b>	Psia
P <sub>d</sub>	<b>682</b>	Psia
D	<b>196</b>	MCF/D

*OK*

Company El Paso Natural Gas Company  
 By A. E. [Signature]  
 Title \_\_\_\_\_  
 Witnessed By \_\_\_\_\_  
 Company \_\_\_\_\_

