

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 66**

Form C122-A  
 Revised 1-1-66

POOL NAME <b>Blanco</b>	POOL SLOPE n = <b>.75</b>	FORMATION <b>Mesa Verde</b>	COUNTY <b>San Juan</b>
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70588

COMPANY <b>EL PASO NATURAL GAS COMPANY</b>			WELL NAME AND NUMBER <b>Barrett No. 3</b>		
UNIT LETTER <b>K</b>	SECTION <b>20</b>	TOWNSHIP <b>31</b>	RANGE <b>9</b>	PURCHASING PIPELINE <b>EL PASO NATURAL GAS COMPANY</b>	
CASING O.D. - INCHES <b>4.500</b>	CASING I.D. - INCHES <b>4.052</b>	SET AT DEPTH - FEET <b>5958</b>	TUBING O.D. - INCHES <b>2.375</b>	TUBING I.D. - INCHES <b>1.995</b>	TOP - TUBING PERF. - FEET <b>5898</b>
GAS PAY ZONE FROM <b>4709</b> TO <b>5922</b>		WELL PRODUCING THRU CASING <b>X</b>		GAS GRAVITY <b>.656</b>	GRAVITY X LENGTH <b>3869</b>
DATE OF FLOW TEST FROM <b>12-19-66</b> TO <b>12-27-66</b>			DATE SHUT-IN PRESSURE MEASURED <b>10-11-66</b>		

**PRESSURE DATA - ALL PRESSURES IN PSIA**

(a) Flowing Casing Pressure (DWt) <b>477</b>	(b) Flowing Tubing Pressure (DWt) <b>477</b>	(c) Flowing Meter Pressure (DWt) <b>878</b>	(d) Flow Chart Static Reading <b>609</b>	(e) Meter Error (Item c - Item d) <b>878</b>	(f) Friction Loss (a - c) or (b - c) <b>702</b>	(g) Average Meter Pressure (Integr.) <b>477</b>
(h) Corrected Meter Pressure (g + e) <b>477</b>	(i) Avg. Wellhead Press. $P_t = (h + f)$ <b>477</b>	(j) Shut-in Casing Pressure (DWt) <b>878</b>	(k) Shut-in Tubing Pressure (DWt) <b>609</b>	(l) $P_c =$ higher value of (j) or (k) <b>878</b>	(m) Del. Pressure $P_d =$ <b>80</b> % $P_c$ <b>702</b>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

**FLOW RATE CORRECTION (METER ERROR)**

Integrated Volume - MCF/D <b>869</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>869</b> MCF/D
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**WORKING PRESSURE CALCULATION**

$(1 - e^{-s})$ <b>.245</b>	$(F_c Q_m)^2 (1000)$ <b>66749</b>	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ <b>16354</b>	$P_t^2$ <b>227529</b>	$P_w^2 = P_t^2 + R^2$ <b>243883</b>	$P_w = \sqrt{P_w^2}$ <b>494</b>
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**DELIVERABILITY CALCULATION**

$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	<b>869</b>	$\left[ \frac{278080}{527001} \right]^n =$	$(.5276)^n =$	$.6185$	$= \frac{869}{1.402} =$	<b>537</b> MCF/D
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REMARKS:

**OWWO First Delivered 11-12-66.**

**SUMMARY**

Item h	<b>477</b>	Psia
$P_c$	<b>878</b>	Psia
Q	<b>869</b>	MCF/D
$P_w$	<b>494</b>	Psia
$P_d$	<b>702</b>	Psia
D	<b>537</b>	MCF/D

Company **EL PASO NATURAL GAS COMPANY**  
 By **H. E. McAnally**  
 Title \_\_\_\_\_  
 Witnessed By \_\_\_\_\_  
 Company \_\_\_\_\_



