

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**INITIAL WELL DELIVERABILITY TEST REPORT FOR 1967**

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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75532

COMPANY <b>El Paso Natural Gas Company</b>			WELL NAME AND NUMBER <b>Schwerdtfeger No. 1 X</b>		
UNIT LETTER <b>N</b>	SECTION <b>27</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>5507</b>	TUBING O.D. - INCHES <b>2.375</b>	TUBING I.D. - INCHES <b>1.995</b>	TOP - TUBING PERF. - FEET <b>5432</b>
GAS PAY ZONE FROM <b>4667</b> TO <b>5458</b>		WELL PRODUCING THRU CASING TUBING <b>X</b>		GAS GRAVITY <b>.640</b>	GRAVITY X LENGTH <b>3476</b>
DATE OF FLOW TEST FROM <b>4-18-67</b> TO <b>4-26-67</b>			DATE SHUT-IN PRESSURE MEASURED <b>11-1-66</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)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.) <b>524</b>
(h) Corrected Meter Pressure (g + e) <b>524</b>	(i) Avg. Wellhead Press. $P_t = (h + f)$ <b>524</b>	(j) Shut-in Casing Pressure (DWt) <b>733</b>	(k) Shut-in Tubing Pressure (DWt) <b>516</b>	(l) $P_c =$ higher value of (j) or (k) <b>733</b>	(m) Del. Pressure $P_d = \frac{80}{586} \% P_t$ <b>586</b>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

**FLOW RATE CORRECTION (METER ERROR)**

Integrated Volume - MCF/D <b>778</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>778</b> MCF/D
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**WORKING PRESSURE CALCULATION**

$(1 - e^{-s})$ <b>.223</b>	$(F_c Q_m)^2 (1000)$ <b>53.509</b>	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ <b>11933</b>	$P_t^2$ <b>274576</b>	$P_w^2 = P_t^2 + R^2$ <b>286509</b>	$P_w = \sqrt{P_w^2}$ <b>535</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>778</b>	$\left[ \frac{193893}{250780} \right]^n =$ <b>.7731</b>	$\left[ \frac{6245}{.8243} \right]^n =$ <b>641</b>	MCF/D
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REMARKS:

**New Well First Delivered 3-6-67.**

SUMMARY

Item h 524 Psia  
 P<sub>c</sub> 733 Psia  
 Q 778 MCF/D  
 P<sub>w</sub> 535 Psia  
 P<sub>d</sub> 586 Psia  
 D 641 MCF/D

Company El Paso Natural Gas Company  
 By H. L. Kendrick  
 Title Regional Well Test Engineer  
 Witnessed By \_\_\_\_\_  
 Company \_\_\_\_\_



