

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67**

Form C122-A  
 Revised 1-1-66

POOL NAME <b>Basin</b>	POOL SLOPE n = <b>.75</b>	FORMATION <b>Dakota</b>	COUNTY <b>San Juan</b>
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COMPANY <b>El Paso Natural Gas Company</b>			WELL NAME AND NUMBER <b>Huerfano Unit No. 157</b>		
UNIT LETTER <b>0</b>	SECTION <b>8</b>	TOWNSHIP <b>26</b>	RANGE <b>9</b>	PURCHASING PIPELINE <b>EPNG</b>	
CASING O.D. - INCHES <b>4500</b>	CASING I.D. - INCHES <b>4052</b>	SET AT DEPTH - FEET <b>6891</b>	TUBING O.D. - INCHES <b>2375</b>	TUBING I.D. - INCHES <b>1995</b>	TOP - TUBING PERF. - FEET <b>6615</b>
GAS PAY ZONE FROM <b>6642</b> TO <b>6772</b>		WELL PRODUCING THRU CASING TUBING <b>X</b>		GAS GRAVITY <b>.678</b>	GRAVITY X LENGTH <b>4485</b> ✓
DATE OF FLOW TEST FROM <b>7-3-67</b> TO <b>7-11-67</b>			DATE SHUT-IN PRESSURE MEASURED <b>4-6-67</b>		

**PRESSURE DATA - ALL PRESSURES IN PSIA**

(a) Flowing Casing Pressure (DWt) <b>---</b>	(b) Flowing Tubing Pressure (DWt) <b>---</b>	(c) Flowing Meter Pressure (DWt) <b>---</b>	(d) Flow Chart Static Reading <b>---</b>	(e) Meter Error (Item c - Item d) <b>---</b>	(f) Friction Loss (a - c) or (b - c) <b>---</b>	(g) Average Meter Pressure (Integr.) <b>423</b>
(h) Corrected Meter Pressure (g + e) <b>423</b>	(i) Avg. Wellhead Press. $P_t = (h + f)$ <b>423</b>	(j) Shut-in Casing Pressure (DWt) <b>1971</b>	(k) Shut-in Tubing Pressure (DWt) <b>1970</b>	(l) $P_c$ = higher value of (j) or (k) <b>1971</b> ✓	(m) Del. Pressure $P_d = \frac{50}{986} \% P_c$ <b>50</b> <b>986</b>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

**FLOW RATE CORRECTION (METER ERROR)**

Integrated Volume - MCF/D <b>227</b>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ <b>1.000</b>	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ <b>1.000</b>	Corrected Volume Q = <b>227</b> ✓ MCF/D
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**WORKING PRESSURE CALCULATION**

$(1 - e^{-s})$ <b>.276</b>	$(F_c Q_m)^2 (1000)$ <b>4554</b> ✓	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ <b>1266</b>	$P_t^2$ <b>178929</b>	$P_w^2 = P_t^2 + R^2$ <b>180195</b>	$P_w = \sqrt{P_w^2}$ <b>424</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>227</b>	$\left[ \frac{2912645}{3704646} \right]^n =$ <b>.7662</b>	$=$ <b>.8350</b>	$=$ <b>190</b> MCF/D
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REMARKS:

**New Well - First Delivered 6-12-67**

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**SUMMARY**

Item h **423** ✓ Psia  
 P<sub>c</sub> **1971** ✓ Psia  
 Q **227** ✓ MCF/D  
 P<sub>w</sub> **424** ✓ Psia  
 P<sub>d</sub> **986** ✓ Psia  
 D **190** ✓ MCF/D

Company **EL PASO NATURAL GAS COMPANY**  
 By *H. L. Kendrick* **H. L. Kendrick**  
 Title **Regional Well Test Engineer**  
 Witnessed By \_\_\_\_\_  
 Company \_\_\_\_\_

