

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 74**

Form C122-A  
 Revised 1-1-66

POOL NAME <b>Undesig. Chacra</b>	POOL SLOPE n= <b>75</b>	FORMATION <b>Chacra</b>	COUNTY <b>San Juan</b>
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COMPANY <b>Wynn Oil Co.</b>			WELL NAME AND NUMBER <b>Large Federal #5</b>		
UNIT LETTER <b>A</b>	SECTION <b>13</b>	TOWNSHIP <b>27N</b>	RANGE <b>8W</b>	PURCHASING PIPELINE	
CASING O.D. - INCHES <b>4 1/2</b>	CASING I.D. - INCHES	SET AT DEPTH - FEET <b>3966</b>	TUBING O.D. - INCHES <b>1 1/2</b>	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET <b>3928</b>
GAS PAY ZONE FROM <b>3898</b> TO <b>3906</b>		WELL PRODUCING THRU CASING TUBING <b>X</b>		GAS GRAVITY <b>.660</b>	GRAVITY X LENGTH <b>2592</b> ✓
DATE OF FLOW TEST FROM <b>2-8</b> TO <b>2-16</b>			DATE SHUT-IN PRESSURE MEASURED <b>2-23-74</b>		

**PRESSURE DATA - ALL PRESSURES IN PSIA**

(a) Flowing Casing Pressure (DWt) <b>263</b>	(b) Flowing Tubing Pressure (DWt) <b>139</b>	(c) Flowing Meter Pressure (DWt) <b>133</b>	(d) Flow Chart Static Reading <b>133</b>	(e) Meter Error (Item c - Item d) ✓	(f) Friction Loss (a - c) or (b - c) <b>6</b> ✓	(g) Average Meter Pressure (Integr.) <b>130</b>
(h) Corrected Meter Pressure (g + e) <b>130</b> ✓	(i) Avg. Wellhead Press. P <sub>t</sub> = (h + f) <b>136</b> ✓	(j) Shut-in Casing Pressure (DWt) <b>643</b>	(k) Shut-in Tubing Pressure (DWt) <b>643</b>	(l) P <sub>c</sub> = higher value of (j) or (k) <b>643</b> ✓	(m) Del. Pressure P <sub>d</sub> = <u>80</u> % P <sub>c</sub> <b>514</b> ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

**FLOW RATE CORRECTION (METER ERROR)**

Integrated Volume - MCF/D <b>128</b>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ <b>1</b>	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ <b>1</b>	Corrected Volume Q = <b>128</b> ✓ MCF/D
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**WORKING PRESSURE CALCULATION**

$(1 - e^{-s})$ ✓ <b>.172</b>	$(F_c Q_m)^2 (1000)$ <b>9,931</b>	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ <b>1,708</b>	$P_t^2$ ✓ <b>18496</b>	$P_w^2 = P_t^2 + R^2$ <b>20204</b>	$P_w = \sqrt{P_w^2}$ <b>143</b> ✓
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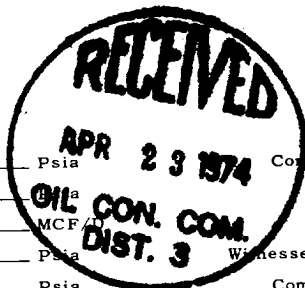
**DELIVERABILITY CALCULATION**

$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ <b>128</b> ✓	$\left[ \frac{149,253}{393,245} \right]^n =$ <b>.3795</b> ✓	$=$ <b>.4835</b>	$=$ <b>62</b> ✓ MCF/D
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REMARKS: 87-861

**SUMMARY**

Item h	<b>130</b> ✓	Psia	Company	<b>Wynn Oil Co.</b>
P <sub>c</sub>	<b>643</b> ✓	Psia	By	<b>GeoElectric Inc.</b>
Q	<b>128</b> ✓	MCF/D	Title	<b>Agent B. H. Kayser</b>
P <sub>w</sub>	<b>143</b> ✓	Psia	Witnessed By	
P <sub>d</sub>	<b>514</b> ✓	Psia	Company	
D	<b>62</b> ✓	MCF/D		



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