

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

Form C122-A
 Revised 1-1-66

POOL NAME <i>Basin</i>	POOL SLOPE <i>n = .75</i>	FORMATION <i>Dakota</i>	COUNTY <i>Rio Arriba</i>
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COMPANY <i>Aztec Oil & Gas Company</i>			WELL NAME AND NUMBER <i>Carson #1</i>		
UNIT LETTER <i>L</i>	SECTION <i>1</i>	TOWNSHIP <i>30 North</i>	RANGE <i>5 West</i>	PURCHASING PIPELINE <i>El Paso Natural Gas Company</i>	
CASING O.D. - INCHES <i>4.500</i>	CASING I.D. - INCHES <i>4.000</i>	SET AT DEPTH - FEET <i>8232</i>	TUBING O.D. - INCHES <i>1.990</i>	TUBING I.D. - INCHES <i>1.610</i>	TOP - TUBING PERF. - FEET <i>8082</i>
GAS PAY ZONE FROM <i>8036</i> TO <i>8134</i>		WELL PRODUCING THRU CASING TUBING <i>X</i>		GAS GRAVITY <i>.593</i>	GRAVITY X LENGTH <i>4793</i>
DATE OF FLOW TEST FROM <i>8-4-70</i> TO <i>8-12-70</i>			DATE SHUT-IN PRESSURE MEASURED <i>10-14-69</i>		

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.) <i>445</i>
(h) Corrected Meter Pressure (g + e) -----	(i) Avg. Wellhead Press. $P_t = (h + f)$ <i>445</i>	(j) Shut-in Casing Pressure (DWt) <i>2251</i>	(k) Shut-in Tubing Pressure (DWt) <i>2251</i>	(l) P_c = higher value of (j) or (k) <i>2251</i>	(m) Del. Pressure $P_d = 50\% P_c$ <i>1126</i>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D <i>361</i>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ -----	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ -----	Corrected Volume $Q = 361$ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ <i>.294</i>	$(F_c Q_m)^2 (1000)$ <i>35,307</i>	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ <i>10,380</i>	P_t^2 <i>198,025</i>	$P_w^2 = P_t^2 + R^2$ <i>208,405</i>	$P_w = \sqrt{P_w^2}$ <i>457</i>
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 361$	$\left(\frac{3,799,125}{4,858,590} \right)^n = .7819$	$.7819^n = .8315$	$D = 300$ MCF/D
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REMARKS:

SUMMARY

Item h ----- Psia
 P_c *2251* Psia
 Q *361* MCF/D
 P_w *457* Psia
 P_d *1126* Psia
 D *300* MCF/D



Company *Aztec Oil & Gas Company*
 By *Joe C. [Signature]*
 Title *District Superintendent*

Witnessed By _____
 Company _____
 August 31, 1970