

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 72

Form CI22-A
 Revised 1-1-66

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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COMPANY Aztec Oil & Gas Company			WELL NAME AND NUMBER Decker "A" #3		
UNIT LETTER B	SECTION 3	TOWNSHIP 31North	RANGE 12West	PURCHASING PIPELINE Southern Union Gathering	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 2739	TUBING O.D. - INCHES 1.315	TUBING I.D. - INCHES 1.049	TOP - TUBING PERF. - FEET 2569
GAS PAY ZONE FROM 2569 TO 2600		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .662	GRAVITY X LENGTH 1701
DATE OF FLOW TEST FROM 1-25-72 TO 2-1-72			DATE SHUT-IN PRESSURE MEASURED 3-19-71		

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.) 260
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$ 260	(j) Shut-in Casing Pressure (DWt) 800	(k) Shut-in Tubing Pressure (DWt) 800	(l) P_c = higher value of (j) or (k) 800	(m) Del. Pressure $P_d = \frac{80}{640} \% P_c$ 640	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 587	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume Q = 587 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ FLN	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$ 260
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 587$	$\left[\frac{230,400}{572,400} \right]^n = .4025$	$\left[\frac{230,400}{572,400} \right]^n = .4614$	$= 271$ MCF/D
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REMARKS:

SUMMARY

Item h _____ Psia
 P_c **800** Psia
 Q **587** MCF/D
 P_w **260** Psia
 P_d **640** Psia
 D **271** MCF/D

Company **Aztec Oil & Gas Company**
 By *[Signature]*
 Title **District Superintendent**
 Witnessed By _____
 Company _____

March 8, 1972

