

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
 Revised 1-1-66

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesaverde	COUNTY San Juan
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COMPANY Aztec Oil & Gas Company			WELL NAME AND NUMBER Sadie West #1		
UNIT LETTER L	SECTION 21	TOWNSHIP 31 North	RANGE 12 West	PURCHASING PIPELINE Southern Union Gathering	
CASING O.D. - INCHES 3.500	CASING I.D. - INCHES 3.068	SET AT DEPTH - FEET 5049	TUBING O.D. - INCHES 1.990	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 4794
GAS PAY ZONE FROM 4756 TO 4969		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .683	GRAVITY X LENGTH 3274
DATE OF FLOW TEST FROM 2-2-71 TO 2-10-71			DATE SHUT-IN PRESSURE MEASURED 12-22-70		

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.) 397
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$ 397	(j) Shut-in Casing Pressure (DWt) 590	(k) Shut-in Tubing Pressure (DWt) 408	(l) P_c = higher value of (j) or (k) 590	(m) Del. Pressure $P_d =$ 80 % P_c 472	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 435	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume Q = 435 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.212	$(F_c Q_m)^2 (1000)$ 51,266	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 10,868	P_t^2 157,609	$P_w^2 = P_t^2 + R^2$ 168,477	$P_w = \sqrt{P_w^2}$ 411
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 435	$\left[\frac{125,316}{179,623} \right]^n =$.6976	$=$.7633	$=$ 332 MCF/D
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REMARKS:

SUMMARY

Item h --- Psia
 P_c **590** Psia
 Q **435** MCF/D
 P_w **411** Psia
 P_d **472** Psia
 D **332** MCF/D

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

February 19, 1971

