

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

Form C122-A
 Revised 1-1-66

POOL NAME <u>Basin</u>	POOL SLOPE n = <u>.75</u>	FORMATION <u>Dakota</u>	COUNTY <u>San Juan</u>
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COMPANY <u>Aztec Oil & Gas Company</u>			WELL NAME AND NUMBER <u>South Kutz #1</u>		
UNIT LETTER <u>B</u>	SECTION <u>11</u>	TOWNSHIP <u>26 North</u>	RANGE <u>11 West</u>	PURCHASING PIPELINE <u>El Paso Natural Gas Co.</u>	
CASING O.D. - INCHES <u>4.50</u>	CASING I.D. - INCHES <u>4.090</u>	SET AT DEPTH - FEET <u>6598</u>	TUBING O.D. - INCHES <u>2.375</u>	TUBING I.D. - INCHES <u>9.402</u>	TOP - TUBING PERF. - FEET <u>6475</u>
GAS PAY ZONE FROM <u>6394</u> TO <u>6516</u>		WELL PRODUCING THRU CASING _____ TUBING <u>X</u>		GAS GRAVITY <u>.770</u>	GRAVITY X LENGTH <u>4986</u>
DATE OF FLOW TEST FROM <u>2-16-70</u> TO <u>2-24-70</u>			DATE SHUT-IN PRESSURE MEASURED <u>9-8-69</u>		

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.) <u>356</u>
(h) Corrected Meter Pressure (g + e) -----	(i) Avg. Wellhead Press. $P_t = (h + f)$ <u>356</u>	(j) Shut-in Casing Pressure (DWt) <u>1653</u>	(k) Shut-in Tubing Pressure (DWt) <u>1653</u>	(l) P_c = higher value of (j) or (k) <u>1653</u>	(m) Del. Pressure $P_d = 50$ % P_c <u>827</u>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D <u>106</u>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ -----	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ -----	Corrected Volume Q = <u>106</u> MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-f})$ <u>.304</u>	$(F_c Q_m)^2 (1000)$ <u>994</u>	$R^2 = (1 - e^{-f}) (F_c Q_m)^2 (1000)$ <u>302</u>	P_t^2 <u>126,736</u>	$P_w^2 = P_t^2 + R^2$ <u>127,038</u>	$P_w = \sqrt{P_w^2}$ <u>357 356</u>
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	<u>106</u>	$\left[\frac{2,048,480}{2,605,371} \right]^n$	$(.7863)^n$	$= .8350$	$=$	<u>89</u> MCF/D
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REMARKS:

SUMMARY

Item h ----- Psia
 P_c 1653 Psia
 Q 106 MCF/D
 P_w 356 357 Psia
 P_d 827 Psia
 D 89 MCF/D

Company Aztec Oil & Gas Company
 By Jac. O. Simon
 Title District Superintendent

Witnessed By _____

Company _____

March 24, 1970

