

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

Form C122-A
 Revised 1-1-66

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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COMPANY Aztec Oil & Gas Company			WELL NAME AND NUMBER Hagood #30		
UNIT LETTER A	SECTION 34	TOWNSHIP 29N	RANGE 13W	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 5 1/2"	CASING I.D. - INCHES	SET AT DEPTH - FEET 6250	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 6100
GAS PAY ZONE FROM 6136-48 TO 6206-26		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .715	GRAVITY X LENGTH 4362
DATE OF FLOW TEST FROM 12-16-72 TO 12-24-72			DATE SHUT-IN PRESSURE MEASURED 8-10-72		

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) 0	(f) Friction Loss (a - c) or (b - c) 0	(g) Average Meter Pressure (Integr.) 236
(h) Corrected Meter Pressure (g + e) 236	(i) Avg. Wellhead Press. $P_t = (h + f)$ 236	(j) Shut-in Casing Pressure (DWt) 0	(k) Shut-in Tubing Pressure (DWt) 1236	(l) $P_c =$ higher value of (j) or (k) 1236	(m) Del. Pressure $P_d = \frac{50}{618} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 394	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 394 MCF/D
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WORKING PRESSURE CALCULATION

$\frac{.272}{(1 - e^{-.75})}$.277	$(F_c Q_m)^2 (1000)$ 42,058	$R^2 = \frac{11,650}{1,440}$	P_t^2 55,696	$P_w^2 = P_t^2 + R^2$ 67,346 64,136	$P_w = \sqrt{P_w^2}$ 260 259
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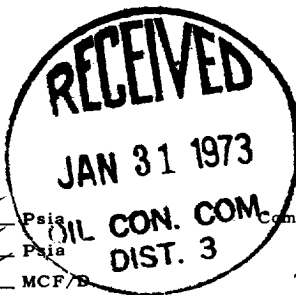
DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 394$	$\left[\frac{1,145,772}{1,460,350} \right]^n = \frac{.7846}{.7844}$	$\left[\frac{.8336}{.8334} \right]^n = \frac{.8336}{.8334}$	$= 328$ MCF/D
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REMARKS:

SUMMARY

Item h	236	Psia	Company	Aztec Oil & Gas Company
P _c	1236	Psia	By	<i>[Signature]</i>
Q	394	MCF/D	Title	District Superintendent
P _w	259	Psia	Witnessed By	
P _d	618	Psia	Company	
D	328	MCF/D		



1-31-73

$$1.250 = 1.125$$

$$.9953 < .9993$$

