

NEW MEXICO OIL CONSERVATION COMMISSION INITIAL WELL DELIVERABILITY TEST REPORT FOR 1967

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 and Gas			WELL NAME AND NUMBER Reid "A" #1		
UNIT LETTER A	SECTION 13	TOWNSHIP 29N	RANGE 10W	PURCHASING PIPELINE Southern Union Gathering	
CASING O.D. - INCHES 4 1/2	CASING I.D. - INCHES 4.000	SET AT DEPTH - FEET 6868	TUBING O.D. - INCHES 1 1/2	TUBING I.D. - INCHES 1.61	TOP - TUBING PERF. - FEET 6266
GAS PAY ZONE FROM 6617 TO 6718		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .686	GRAVITY X LENGTH 4298
DATE OF FLOW TEST FROM 11/1/67 TO 11/9/67			DATE SHUT-IN PRESSURE MEASURED 11/17/67		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 460	(b) Flowing Tubing Pressure (DWt) 610	(c) Flowing Meter Pressure (DWt) 460	(d) Flow Chart Static Reading 462	(e) Meter Error (Item c - Item d) -2	(f) Friction Loss (a - c) or (b - c) 150	(g) Average Meter Pressure (Integr.) 462
(h) Corrected Meter Pressure (g + e) 460	(i) Avg. Wellhead Press. $P_t = (h + f)$ 610	(j) Shut-in Casing Pressure (DWt) 1607	(k) Shut-in Tubing Pressure (DWt) 1607	(l) P_c = higher value of (j) or (k) 1607	(m) Del. Pressure $P_d = \frac{50}{\%P_c}$ 804	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 2252	Quotient of $\frac{\text{Item c}}{\text{Item d}}$.9957	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$.9978	Corrected Volume Q = 2247 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 268	$(F_c Q_m)^2 (1000)$ 1,367,935	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 366,614	P_t^2 372,100	$P_w^2 = P_t^2 + R^2$ 738,714	$P_w = \sqrt{P_w^2}$ 859
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	2247	$\left[\frac{1,936,033}{1,843,735} \right]^n =$	1.0501	$= \left[\frac{1.0372}{1.0501} \right]^n =$	2331 MCF/D
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REMARKS:

Initial Test

SUMMARY

Item h	460	Para
P_c	1607	Para
Q	2247	MCF/D
P_w	859	Para
P_d	804	Para
D	2331	MCF/D

Company **Aztec Oil and Gas**
By **Joe C. Salomon**
Title **District Superintendent**
Witnessed By _____
Company _____

December 6, 1967

