

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
 Revised 1-1-66

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
---------------------------	------------------------------	----------------------------	---------------------------

COMPANY Aztec Oil and Gas			WELL NAME AND NUMBER Reid PRI #1		
UNIT LETTER G	SECTION 13	TOWNSHIP 29N	RANGE 12W	PURCHASING PIPELINE Southern Union Gathering	
CASING O.D. - INCHES 4½	CASING I.D. - INCHES 4.000	SET AT DEPTH - FEET 6462	TUBING O.D. - INCHES 2-3/8	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6372
GAS PAY ZONE FROM 6193 TO 6367		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .698	GRAVITY X LENGTH 4448 ✓
DATE OF FLOW TEST FROM 10/10/67 TO 10/17/67			DATE SHUT-IN PRESSURE MEASURED 10/24/67		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 779	(b) Flowing Tubing Pressure (DWt) 621	(c) Flowing Meter Pressure (DWt) 518	(d) Flow Chart Static Reading 518	(e) Meter Error (Item c - Item d) 	(f) Friction Loss (a - c) or (b - c) 103 ✓	(g) Average Meter Pressure (Integr.) 490
(h) Corrected Meter Pressure (g + e) 490 ✓	(i) Avg. Wellhead Press. $P_t = (h + f)$ 593 ✓	(j) Shut-in Casing Pressure (DWt) 1586	(k) Shut-in Tubing Pressure (DWt) 1564	(l) P_c = higher value of (j) or (k) 1586 ✓	(m) Del. Pressure $P_d =$ 50 % P_c 793	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 2230	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1	Corrected Volume Q = 2230 ✓ MCF/D
--	---	---	---

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 276 ✓	$(F_c Q_m)^2 (1000)$ 439,573	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 121,325 ✓	P_t^2 351,649	$P_w^2 = P_t^2 + R^2$ 472,974 ✓	$P_w = \sqrt{P_w^2}$ 688 ✓
-------------------------	---------------------------------	--	--------------------	------------------------------------	-------------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	2230	$\left[\frac{1,886,547}{2,042,422} \right]^n =$	$.9237^n =$	$.9421^n =$	2101 ✓ MCF/D
--	------	--	-------------	-------------	--------------

REMARKS:

Initial Test

SUMMARY

Item h 490 Psia
 P_c 1586 Psia
 Q 2230 MCF/D
 P_w 688 Psia
 P_d 793 Psia
 D 2101 MCF/D

Company Aztec Oil and Gas
 By Jim C. Salmon
 Title District Superintendent
 Witnessed By _____
 Company _____
 December 6, 1967

