

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

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 Robinson #12		
UNIT LETTER N	SECTION 22	TOWNSHIP 28 North	RANGE 13 West	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6423	TUBING O.D. - INCHES 1990	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 6295
GAS PAY ZONE FROM 6316 TO 6332		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .652	GRAVITY X LENGTH 4104 ✓
DATE OF FLOW TEST FROM 1-20-71 TO 1-28-71			DATE SHUT-IN PRESSURE MEASURED 9-27-70		

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.) 337
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$ 337	(j) Shut-in Casing Pressure (DWt) 1084	(k) Shut-in Tubing Pressure (DWt) 1084	(l) P_c = higher value of (j) or (k) 1084 ✓	(m) Del. Pressure $P_d =$ 50 % P_c 542 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1555	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume Q = 1555 ✓ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ ✓ .258	$(F_c Q_m)^2 (1000)$ ✓ 655,104	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ ✓ 169,017	P_t^2 ✓ 113,569	$P_w^2 = P_t^2 + R^2$ ✓ 282,586	$P_w = \sqrt{P_w^2}$ ✓ 532
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1555	$\left[\frac{881,292}{892,470} \right]^n (.9874)^n =$.9205 ✓	1540 ✓ MCF/D
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REMARKS:

SUMMARY

Item h ----- Psia
 P_c **1084** ✓ Psia
 Q **1555** ✓ MCF/D
 P_w **532** ✓ Psia
 P_d **542** ✓ Psia
 D **1540** ✓ MCF/D

Company **Aztec Oil & Gas Company**
 By **[Signature]**
 Title **Office Manager**

Witnessed By _____

Company _____

February 16, 1971



OK

