

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

Form C122-A
Revised 1-1-66

POOL NAME Blanco	POOL SLOPE m = .75	FORMATION Mesaverde	COUNTY San Juan
---------------------	-----------------------	------------------------	--------------------

COMPANY Aztec Oil & Gas Company			WELL NAME AND NUMBER Reid #23		
UNIT LETTER L	SECTION 17	TOWNSHIP 28N	RANGE 9W	PURCHASING PIPELINE Southern Union Gathering	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.090	SET AT DEPTH - FEET 6635	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 4412
GAS PAY ZONE FROM 4412 TO 4475		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .655	GRAVITY X LENGTH 2890
DATE OF FLOW TEST FROM 1-25-72 TO 2-1-72			DATE SHUT-IN PRESSURE MEASURED 12-10-71		

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.) 194
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$ 194	(j) Shut-in Casing Pressure (DWt) 830	(k) Shut-in Tubing Pressure (DWt) -	(l) P_c = higher value of (j) or (k) 830	(m) Del. Pressure $P_d = .80 \% P_c$ 664	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 118	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume $Q = 118$ MCF/D
----------------------------------	---	--	-------------------------------------

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ FLN	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$ 194
-----------------------	----------------------	---	---------	-----------------------	-----------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 118$	$\left[\frac{248,004}{651,264} \right]^n = 3808$	$= 4847$	$= 57$ MCF/D
--	---	----------	--------------

REMARKS:

SUMMARY

Item h ----- Psia
 P_c ----- 830 Psia
 Q ----- 118 MCF/D
 P_w ----- 194 Psia
 P_d ----- 664 Psia
 D ----- 57 MCF/D

Company ----- Aztec Oil & Gas
By -----
Title ----- District Superintendent
Witnessed By -----
Company -----

March 1, 1972

