

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
 Revised 1-1-66

POOL NAME <i>Basin</i>	POOL SLOPE <i>n = .75</i>	FORMATION <i>Dakota</i>	COUNTY <i>San Juan</i>
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COMPANY <i>Aztec Oil & Gas Company</i>			WELL NAME AND NUMBER <i>Reese Mesa #1</i>		
UNIT LETTER <i>A</i>	SECTION <i>12</i>	TOWNSHIP <i>32 North</i>	RANGE <i>8 West</i>	PURCHASING PIPELINE <i>El Paso Natural Gas Company</i>	
CASING O.D. - INCHES <i>7.625</i> <i>4.500</i>	CASING I.D. - INCHES <i>6.969</i> <i>4.090</i>	SET AT DEPTH - FEET <i>4159</i> <i>4063-8714</i>	TUBING O.D. - INCHES <i>1.990</i>	TUBING I.D. - INCHES <i>1.610</i>	TOP - TUBING PERF. - FEET <i>8500</i>
GAS PAY ZONE FROM <i>8546</i> TO <i>8669</i>		WELL PRODUCING THRU CASING _____ TUBING <i>X</i>		GAS GRAVITY <i>.678</i>	GRAVITY X LENGTH <i>5763</i>
DATE OF FLOW TEST FROM <i>4-20-70</i> TO <i>4-27-70</i>			DATE SHUT-IN PRESSURE MEASURED <i>9-8-69</i>		

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.)
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(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d = \text{ } \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
----	<i>475</i>	----	<i>1722</i>	<i>1722</i>	<i>861</i>	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
<i>1053</i>	----	----	<i>Q = 1053 MCF/D</i>

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
<i>.342</i>	<i>300,398</i>	<i>102,736</i>	<i>225,625</i>	<i>328,361</i>	<i>573</i>

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1053}{\left[\frac{2,223,963}{2,636,923} \right]^n} = \frac{1053}{.8434^n} = \frac{1053}{.8801} = \underline{927} \text{ MCF/D}$$

REMARKS:

SUMMARY

Item h *1722* Psia
 P_c *1722* Psia
 Q *1053* MCF/D
 P_w *573* Psia
 P_d *861* Psia
 D *927* MCF/D

Company *Aztec Oil & Gas Company*
 By *J. H. Williams*
 Title *Office Manager*
 Witnessed By _____
 Company _____
 May 22, 1970

