

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

Form C122-A
 Revised 1-1-66

POOL NAME Aztec	POOL SLOPE 11 = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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COMPANY PAN AMERICAN PETROLEUM CORPORATION			WELL NAME AND NUMBER Gerk Gas Com "C" No. 1		
UNIT LETTER H	SECTION 30	TOWNSHIP 29	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 2243	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.300	TOP - TUBING PERF. - FEET 2120
GAS PAY ZONE FROM 2111 TO 2129		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .658	GRAVITY X LENGTH 1395
DATE OF FLOW TEST FROM 6-7-70 TO 6-14-70			DATE SHUT-IN PRESSURE MEASURED 3-23-70		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 256	(b) Flowing Tubing Pressure (DWt) 194	(c) Flowing Meter Pressure (DWt) 186	(d) Flow Chart Static Reading 175	(e) Meter Error (Item c - Item d) 11	(f) Friction Loss (a - c) or (b - c) 8	(g) Average Meter Pressure (Integr.) 183
(h) Corrected Meter Pressure (g + e) 194	(i) Avg. Wellhead Press. $P_t = (h + f)$ 202	(j) Shut-in Casing Pressure (DWt) 702	(k) Shut-in Tubing Pressure (DWt) 702	(l) P_c = higher value of (j) or (k) 702	(m) Del. Pressure $P_d = \frac{80}{562} \% P_c$ 562	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume -- MCF/D 666	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0629	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0310	Corrected Volume Q = 687 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-S})$.096	$(F_c Q_m)^2 (1000)$ 286,083	$R^2 = (1 - e^{-S}) (F_c Q_m)^2 (1000)$ 27,464	P_t^2 40,804	$P_w^2 = P_t^2 + R^2$ 68,268	$P_w = \sqrt{P_w^2}$ 261
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 687	$\left[\frac{176,960}{424,536} \right]^n =$.4168	$=$.4753	$=$ 327 MCF/D
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REMARKS:

SUMMARY

Item h **194** Psia
 P_c **702** Psia
 Q **687** MCF/D
 P_w **261** Psia
 P_d **562** Psia
 D **327** MCF/D

Company **PAN AMERICAN PETROLEUM CORPORATION**
 By **Area Engineer** Original Sign. **G. W. EATON, JR.**
 Title **Area Engineer**
 Witnessed By _____
 Company _____

