

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 76

Form C122-A
 Revised 1-1-66

POOL NAME Fulcher Kutz	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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2439-06

COMPANY AMOCO PRODUCTION COMPANY			WELL NAME AND NUMBER C. M. Morris "A" No. 1		
UNIT LETTER D	SECTION 10	TOWNSHIP 27	RANGE 10	PURCHASING PIPELINE Southern Union Gathering Co.	
CASING O.D. - INCHES 3.500	CASING I.D. - INCHES 2.992	SET AT DEPTH - FEET 2129	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 2106
GAS PAY ZONE FROM 2059 TO 2133		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .650	GRAVITY X LENGTH 1369
DATE OF FLOW TEST FROM 4-9-76 TO 4-17-76			DATE SHUT-IN PRESSURE MEASURED 4-25-76		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 179	(b) Flowing Tubing Pressure (DWt) 159	(c) Flowing Meter Pressure (DWt) 158	(d) Flow Chart Static Reading 160	(e) Meter Error (Item c - Item d) -2	(f) Friction Loss (a - c) or (b - c) 1	(g) Average Meter Pressure (Integr.) 157
(h) Corrected Meter Pressure (g + e) 155	(i) Avg. Wellhead Press. $P_t = (h + f)$ 156	(j) Shut-in Casing Pressure (DWt) 224	(k) Shut-in Tubing Pressure (DWt) 224	(l) $P_c =$ higher value of (j) or (k) 224	(m) Del. Pressure $P_d = \frac{80}{179} \% P_c$ 179	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 311	Quotient of $\frac{\text{Item c}}{\text{Item d}}$.9875	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$.9937	Corrected Volume Q = 309 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.095	$(F_c Q_m)^2 (1000)$ 57,875	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 5498	P_t^2 24,336	$P_w^2 = P_t^2 + R^2$ 29,834	$P_w = \sqrt{P_w^2}$ 173
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DELIVERABILITY CALCULATION

$D - Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 309	$\left[\frac{18,135}{20,342} \right]^n \left(\frac{.8915}{.9070} \right)^n =$ 280 MCF/D
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REMARKS:

SUMMARY

Item h	155	Psia
P_c	224	Psia
Q	309	MCF/D
P_w	173	Psia
P_d	179	Psia
D	280	MCF/D



AMOCO PRODUCTION COMPANY

Title **Area Engineer**

Witnessed By _____

Company _____