

NEW MEXICO OIL CONSERVATION COMMISSION

INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 76Form C122-A
Revised 1-1-66

POOL NAME Basin	POOL SLOPE $m = .75$	FORMATION Dakota	COUNTY San Juan
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COMPANY Jerome P. McHugh			WELL NAME AND NUMBER Colket #1		
UNIT LETTER C	SECTION 15	TOWNSHIP 25N	RANGE 11W	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 5.500"	CASING I.D. - INCHES 4.892"	SET AT DEPTH - FEET 6027'	TUBING O.D. - INCHES 2.875"	TUBING I.D. - INCHES 2.441"	TOP - TUBING PERF. - FEET 5834'
GAS PAY ZONE FROM 5844' TO 5870'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .697	GRAVITY X LENGTH 4066
DATE OF FLOW TEST FROM 1-24-76 TO 2-1-76			DATE SHUT-IN PRESSURE MEASURED 4-1-74		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 694	(b) Flowing Tubing Pressure (DWt) 604	(c) Flowing Meter Pressure (DWt) 227	(d) Flow Chart Static Reading 6.5	(e) Meter Error (Item c - Item d) +16	(f) Friction Loss (a - c) or (b - c) +377	(g) Average Meter Pressure (Integr.) 214
(h) Corrected Meter Pressure (g + e) 230	(i) Avg. Wellhead Press. $P_t = (h + f)$ 607 609	(j) Shut-in Casing Pressure (DWt) 1992	(k) Shut-in Tubing Pressure (DWt) 1987	(l) P_c = higher value of (j) or (k) 1992	(m) Del. Pressure $P_d = .50\% P_c$ 996	(n) Separator or Dehydrator Pr. (DWt) for critical flow only 453

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 2446	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0758	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0372	Corrected Volume 2537 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.256	$(F_c Q_m)^2 (1000)$ 198,328	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 50,772	P_t^2 368,449 364,816	$P_w^2 = P_t^2 + R^2$ 419,221 415,588	$P_w = \sqrt{P_w^2}$ 647 645
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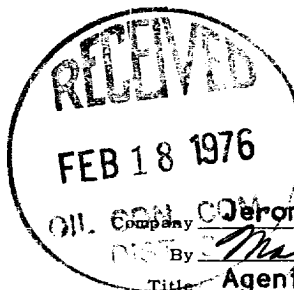
DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 2537	$\left[\frac{2,976,048}{3,545,845} \right]^n =$ 3,552,476	$\left(\frac{.8386}{.83773} \right)^n =$.8763 .87565	$= \frac{2223}{2222}$ MCF/D
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REMARKS: First Delivery 1-5-76

SUMMARY

Item h **230** Psia
 P_c **1992** Psia
 Q **2537** MCF/D
 P_w **647 645** Psia
 P_d **996** Psia
 D **2222** MCF/D



Witnessed By

Company

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