

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1975

Form O 122-A
 Revised 1-1-66

POOL NAME West Kutz	POOL SLOPE n = 0.85	FORMATION Pictured Cliffs	COUNTY San Juan
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COMPANY Gulf Oil Corporation			WELL NAME AND NUMBER Douthitt Federal #3		
UNIT LETTER P	SECTION 26	TOWNSHIP 17N	RANGE 11W	PURCHASING PIPELINE Southern Union Gas Co.	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 5.012	SET AT DEPTH - FEET 2060	TUBING O.D. - INCHES 1.315	TUBING I.D. - INCHES 1.049	TOP - TUBING PERI. - FEET 2125
GAS PAY ZONE FROM 2055 TO 2115		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY 0.63	GRAVITY X LENGTH
DATE OF FLOW TEST FROM 7-17-75 TO 7-25-75			DATE SHUT-IN PRESSURE MEASURED 7-25-75 to 8-1-75		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 134	(b) Flowing Tubing Pressure (DWt) 134	(c) Flowing Meter Pressure (DWt) 134	(d) Flow Chart Static Reading 134	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a - c) or (b - c) 0	(g) Average Meter Pressure (Integr) 13
(h) Corrected Meter Pressure (g + e) 134	(i) Avg. Wellhead Press. $P_t = (h + f)$ 134	(j) Shut-in Casing Pressure (DWt) 202	(k) Shut-in Tubing Pressure (DWt) 198	(l) $P_c =$ higher value of (j) or (k) 202	(m) Del. Pressure $P_d = \frac{30}{134} \% P_c$ 134	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 102	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.000	Corrected Volume Q = 102 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-5})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-5}) (F_c Q_m)^2 (1000)$	P_t^2 17756	$P_w^2 = P_t^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$
Friction Negligible					

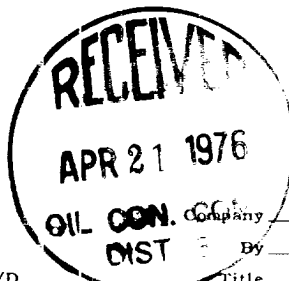
DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 102$	$\left[\frac{17756}{228.3} \right]^n = .6373$	$\left[\frac{17756}{228.3} \right]^n = .6373$	$= 69.5$ MCF/D
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REMARKS:

SUMMARY

Item h _____ Psia
 P_c _____ Psia
 Q _____ MCF/D
 P_w _____ Psia
 P_d _____ Psia
 D _____ MCF/D



Company _____
 By D.V. Berlin
 Title Area Engineer
 Witnessed By _____
 Company _____