

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 75

Form C122-A
 Revised 1-1-66

POOL NAME <u>West Kutz</u>	POOL SLOPE n= <u>0.85</u>	FORMATION <u>Pictured Cliffs</u>	COUNTY <u>San Juan</u>
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COMPANY <u>Gulf Oil Corporation</u>			WELL NAME AND NUMBER <u>Scott "E" Federal #3</u>		
UNIT LETTER <u>0</u>	SECTION <u>23</u>	TOWNSHIP <u>27N</u>	RANGE <u>11W</u>	PURCHASING PIPELINE <u>Southern Union Gas Co.</u>	
CASING O.D. - INCHES <u>5.500</u>	CASING I.D. - INCHES <u>5.012</u>	SET AT DEPTH - FEET <u>2070</u>	TUBING O.D. - INCHES <u>1.315</u>	TUBING I.D. - INCHES <u>1.049</u>	TOP - TUBING PERF. - FEET <u>2132</u>
GAS PAY ZONE FROM <u>2070</u> TO <u>2148</u>		WELL PRODUCING THRU CASING <u>X</u> TUBING		GAS GRAVITY <u>.660</u>	GRAVITY X LENGTH
DATE OF FLOW TEST FROM <u>7-17-75</u> TO <u>7-25-75</u>			DATE SHUT-IN PRESSURE MEASURED <u>7-25-75 to 8-1-75</u>		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) <u>134</u>	(b) Flowing Tubing Pressure (DWt) <u>139</u>	(c) Flowing Meter Pressure (DWt) <u>134</u>	(d) Flow Chart Static Reading <u>134</u>	(e) Meter Error (Item c - Item d) <u>0</u>	(f) Friction Loss (a - c) or (b - c) <u>0</u>	(g) Average Meter Pressure (Integr.) <u>134</u>
(h) Corrected Meter Pressure (g + e) <u>134</u>	(i) Avg. Wellhead Press. $P_t = (h + f)$ <u>134</u>	(j) Shut-in Casing Pressure (DWt) <u>217</u>	(k) Shut-in Tubing Pressure (DWt) <u>211</u>	(l) $P_c =$ higher value of (j) or (k) <u>217</u>	(m) Del. Pressure $P_d = \frac{80}{174} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D <u>27</u>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ $\frac{134}{134} = 1.000$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ $\sqrt{1.000}$	Corrected Volume Q = <u>27</u> MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-5})$	$(F_c Q_m)^2 (1000)$ Friction Negligible	$R^2 = (1 - e^{-5}) (F_c Q_m)^2 (1000)$	P_t^2 <u>17956</u>	$P_w^2 = P_t^2 + R^2$ Use P_t	$P_w = \sqrt{P_w^2}$
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	<u>27</u>	$\left[\frac{16813}{29133} \right]^n =$	<u>.5771</u>	$=$	<u>.6267</u>	$=$	<u>16.9</u> MCF/D
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REMARKS:

SUMMARY

Item h 1 Psia
 P_c 217 Psia
 Q 27.0 MCF/D
 P_w 134 Psia
 P_d 174 Psia
 D 16.9 MCF/D

Company Gulf Oil Corporation
 By D.V. Berlin
 Title Area Engineer
 Witnessed By _____
 Company _____

APR 21 1976