

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

Form C122-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 Scott "E" Federal #1		
UNIT LETTER P	SECTION 22	TOWNSHIP 27N	RANGE 11W	PURCHASING PIPELINE Southern Union Gas Co.	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 5.012	SET AT DEPTH - FEET 2017	TUBING O.D. - INCHES 1.315	TUBING I.D. - INCHES 1.049	TOP - TUBING PERF. - FEET 2103
GAS PAY ZONE FROM 2017 TO 2032		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .666	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) 144	(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.) 134
(h) Corrected Meter Pressure (g + e) 134	(i) Avg. Wellhead Press. $P_t = (h + f)$ 134	(j) Shut-in Casing Pressure (DWt) 199	(k) Shut-in Tubing Pressure (DWt) 197	(l) P_c = higher value of (j) or (k) 199	(m) Del. Pressure $P_d = \frac{80}{159} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 17	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.000	$\frac{134}{134}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.000	Corrected Volume 17	MCF/D
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WORKING PRESSURE CALCULATION

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

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	17	$\left[\frac{14320}{21645} \right]^n =$	$.6616^n =$	$.7039$	$=$	12.0	MCF/D
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REMARKS:

SUMMARY

Item h _____ Psia
 P_c 199 _____ Psia
 Q 17.0 _____ MCF/D
 P_w 134 _____ Psia
 P_d 159 _____ Psia
 D 12.0 _____ MCF/D

APR 1978
 CHL OIL CO.
 CASE 3

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