

RETEST AFTER WORKOVER
NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 66

Form C122-A
 Revised 1-1-66

POOL NAME Basin Dakota	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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COMPANY Roy L. Cook			WELL NAME AND NUMBER Federal No. 2		
UNIT LETTER 0	SECTION 11	TOWNSHIP 28	RANGE 13	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 5 1/2	CASING I.D. - INCHES	SET AT DEPTH - FEET 6440	TUBING O.D. - INCHES 2 3/8	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET 6313
GAS PAY ZONE FROM 6266 TO 6370		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 731	GRAVITY X LENGTH 4615
DATE OF FLOW TEST FROM 2-26-67 TO 3-6-67			DATE SHUT-IN PRESSURE MEASURED 5-18-65		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.)
	202	202		0	0	0
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{50}{490} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
202	202	---	981	981	490	---

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 188	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.000	Corrected Volume Q = 188 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.285	$(F_c Q_m)^2 (1000)$ 3,126	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$.891	P_t^2 40,804	$P_w^2 = P_t^2 + R^2$ 41.695	$P_w = \sqrt{P_w^2}$ 204
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 188	$\left[\frac{722,261}{920,666} \right]^n =$.7845	$\left[\frac{722,261}{920,666} \right]^n =$.8336	$=$ 157 MCF/D
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REMARKS:

SUMMARY

Item h **202** Psia
 P_c **981** Psia
 Q **188** MCF/D
 P_w **204** Psia
 P_d **490** Psia
 D **157** MCF/D

Company **Roy L. Cook**
 By **Wayne B. Smith**
 Title _____
 Witnessed By _____
 Company _____

