

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 67

Form C122-A
 Revised 1-1-66

POOL NAME Antec	POOL SLOPE n = .85	FORMATION Fractured Cliffs	COUNTY San Juan
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COMPANY D. J. Simmons et al			WELL NAME AND NUMBER Simmons #21		
UNIT LETTER B	SECTION 29	TOWNSHIP 29N	RANGE 9N	PURCHASING PIPELINE EPN	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.090	SET AT DEPTH - FEET 2359	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 2180
GAS PAY ZONE FROM 2218 TO 2294		WELL PRODUCING THRU CASING TUBING I		GAS GRAVITY .647	GRAVITY X LENGTH 1410
DATE OF FLOW TEST FROM 4-21-67 TO 4-29-67			DATE SHUT-IN PRESSURE MEASURED 12-19-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 224	(b) Flowing Tubing Pressure (DWt) 224	(c) Flowing Meter Pressure (DWt) 673	(d) Flow Chart Static Reading 673	(e) Meter Error (Item c - Item d) 538	(f) Friction Loss (a - c) or (b - c) 224	(g) Average Meter Pressure (Integr.) 224
(h) Corrected Meter Pressure (g + e) 224	(i) Avg. Wellhead Press. $P_t = (h + f)$ 224	(j) Shut-in Casing Pressure (DWt) 673	(k) Shut-in Tubing Pressure (DWt) 673	(l) P_c = higher value of (j) or (k) 673	(m) Del. Pressure $P_d = \frac{.80}{.647} \% P_c$ 538	(n) Separator or Dehydrator Pr. (DWt) for critical flow only 224

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 165	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0075	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0037	Corrected Volume Q = 165 MCF/D
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$P_b = 24.62$

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.097	$(F_c Q_m)^2 (1000)$ 16500	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 1601	P_t^2 50176	$P_w^2 = P_t^2 + R^2$ 51777	$P_w = \sqrt{P_w^2}$ 228
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 165	$\left[\frac{163485}{40152} \right]^n =$.4075	$\left[\frac{.4075}{.4075} \right]^n =$.4663	$=$ 77 MCF/D
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REMARKS:

SUMMARY

Item h **224** Psia
 P_c **673** Psia
 Q **165** MCF/D
 P_w **228** Psia
 P_d **538** Psia
 D **77** MCF/D

Company **D. J. Simmons et al**
 By **Ashton B. Jensen, Jr.**
 Title **Supt.**
 Witnessed By _____
 Company _____



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