

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

Form C122-A
 Revised 1-1-66

POOL NAME AZTEC	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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COMPANY D. J. Simmons, et al			WELL NAME AND NUMBER Simmons No. 8		
UNIT LETTER J	SECTION 25	TOWNSHIP 29N	RANGE 9W	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.090	SET AT DEPTH - FEET 2602	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 2410
GAS PAY ZONE FROM 2441 TO 2479		WELL PRODUCING THRU CASING TUBING *		GAS GRAVITY .660	GRAVITY X LENGTH 1591
DATE OF FLOW TEST FROM 3-1-67 TO 3-9-67			DATE SHUT-IN PRESSURE MEASURED 11-3-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 230	(b) Flowing Tubing Pressure (DWt) 230	(c) Flowing Meter Pressure (DWt) 800	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d) 800	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.) 230
(h) Corrected Meter Pressure (g + e) 230	(i) Avg. Wellhead Press. $P_t = (h + f)$ 230	(j) Shut-in Casing Pressure (DWt) 800	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k) 800	(m) Del. Pressure $P_d = \frac{.80}{640} \% P_c$ 640	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 328	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume Q = 328 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.109	$(F_c Q_m)^2 (1000)$ 65,206	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 7,107	P_t^2 52,900	$P_w^2 = P_t^2 + R^2$ 60,007	$P_w = \sqrt{P_w^2}$ 245
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{328}{\left[\frac{230400}{579993} \right]^{.3972}} = 150$ MCF/D

REMARKS:

SUMMARY

Item h **230** Psia
 P_c **800** Psia
 Q **328** MCF/D
 P_w **245** Psia
 P_d **640** Psia
 D **150** MCF/D

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



