

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

Form C122-A
 Revised 1-1-66

POOL NAME Manos	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 #3		
UNIT LETTER H	SECTION 23	TOWNSHIP 29	RANGE 9	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.00	CASING I.D. - INCHES 3.548	SET AT DEPTH - FEET 2546	TUBING O.D. - INCHES Tubingless	TUBING I.D. - INCHES -	TOP - TUBING PERF. - FEET -0
GAS PAY ZONE FROM 2387 TO 2437		WELL PRODUCING THRU CASING Tubingless TUBING		GAS GRAVITY .650	GRAVITY X LENGTH 1552
DATE OF FLOW TEST FROM 3-17-67 TO 3-25-67			DATE SHUT-IN PRESSURE MEASURED 10-6-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 247	(b) Flowing Tubing Pressure (DWt) 247	(c) Flowing Meter Pressure (DWt) 904	(d) Flow Chart Static Reading 904	(e) Meter Error (Item c - Item d) 904	(f) Friction Loss (a - c) or (b - c) 723	(g) Average Meter Pressure (Integr.) 247
(h) Corrected Meter Pressure (g + e) 247	(i) Avg. Wellhead Press. $P_t = (h + f)$ 247	(j) Shut-in Casing Pressure (DWt) 904	(k) Shut-in Tubing Pressure (DWt) 904	(l) P_c = higher value of (j) or (k) 904	(m) Del. Pressure $P_d =$.80 % P_c 723	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 682	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume Q = 682 MCF/D
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$P_c = 2.090$

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.107	$(F_c Q_m)^2 (1000)$ 2031	$R^2 = \frac{(F_c Q_m)^2 (1000)}{(1 - e^{-s})}$ 217	P_t^2 61009	$P_w^2 = P_t^2 + R^2$ 61226	$P_w = \sqrt{P_w^2}$ 247
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 682	$\left[\frac{294487}{755990} \right]^n =$.3895	$\left[\frac{.3895}{.4487} \right]^n =$.4487	306 MCF/D
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REMARKS:

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SUMMARY

Item h 247 Psia
 P_c 904 Psia
 Q 682 MCF/D
 P_w 247 Psia
 P_d 723 Psia
 D 306 MCF/D

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



