

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

Form C122-A
 Revised 1-1-66

POOL NAME South Blanco	POOL SLOPE n= 0.85	FORMATION Pictured Cliffs	COUNTY Rio Arriba
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COMPANY SHERMAN F. WAGENSELLER			WELL NAME AND NUMBER Mobil Apache #11		
UNIT LETTER C	SECTION 7	TOWNSHIP 23N	RANGE 2W	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.090	SET AT DEPTH - FEET 3081	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 3020
GAS PAY ZONE FROM 2992 TO 3024		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.658	GRAVITY X LENGTH 1987
DATE OF FLOW TEST FROM 4-26-68 TO 5-4-68			DATE SHUT-IN PRESSURE MEASURED November 17, 1967		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 260	(b) Flowing Tubing Pressure (DWt) 260	(c) Flowing Meter Pressure (DWt) 825	(d) Flow Chart Static Reading 813	(e) Meter Error (Item c - Item d) 825	(f) Friction Loss (a - c) or (b - c) 660	(g) Average Meter Pressure (Integr.) 260
(h) Corrected Meter Pressure (g + e) 260	(i) Avg. Wellhead Press. $P_t = (h + f)$ 260	(j) Shut-in Casing Pressure (DWt) 825	(k) Shut-in Tubing Pressure (DWt) 813	(l) P_c = higher value of (j) or (k) 825	(m) Del. Pressure $P_d =$ 80 % P_c 660	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume Q = 729 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s}) (F_c Q_m)^2 (1000)$ 0.135	$(F_c Q_m)^2 (1000)$ 46,977	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 6342	P_t^2 67,600	$P_w^2 = P_t^2 + R^2$ 73,942	$P_w = \sqrt{P_w^2}$ 272
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 729	$\left[\frac{245,025}{606,683} \right]^n =$ 0.4039	$=$ 0.4627	$=$ 337 MCF/D
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REMARKS:

SUMMARY

Item h **260** Psia
 P_c **825** Psia
 Q **729** MCF/D
 P_w **272** Psia
 P_d **660** Psia
 D **337** MCF/D

Company **SHERMAN F. WAGENSELLER**
 By **M. B. Jones**
 Title **Morris B. Jones, Engineer**
 Witnessed By _____
 Company _____

