

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 Picturated Cliffs	COUNTY Rio Arriba
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COMPANY SHERMAN F. WAGENSELLER			WELL NAME AND NUMBER Mobil Apache 14		
UNIT LETTER I	SECTION 7	TOWNSHIP 23N	RANGE 2W	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.050	SET AT DEPTH - FEET 3130	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 3058
GAS PAY ZONE FROM 3046 TO 3076		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.650est	GRAVITY X LENGTH 1988
DATE OF FLOW TEST FROM 11-1-69 TO 11-8-69			DATE SHUT-IN PRESSURE MEASURED June 20, 1969		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 181	(b) Flowing Tubing Pressure (DWt) 181	(c) Flowing Meter Pressure (DWt) 793	(d) Flow Chart Static Reading 778	(e) Meter Error (Item c - Item d) 793	(f) Friction Loss (a - c) or (b - c) 634	(g) Average Meter Pressure (Integr.) 181
(h) Corrected Meter Pressure (g + e) 181	(i) Avg. Wellhead Press. $P_t = (h + f)$ 181	(j) Shut-in Casing Pressure (DWt) 793	(k) Shut-in Tubing Pressure (DWt) 778	(l) P_c = higher value of (j) or (k) 793	(m) Del. Pressure $P_d = 80\% P_c$ 634	(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 = 327 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 0.135	$(F_c Q_m)^2 (1000)$ 9.449	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 1276	P_t^2 32,761	$P_w^2 = P_t^2 + R^2$ 34,037	$P_w = \sqrt{P_w^2}$ 185
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	327	$\left[\frac{226,893}{594,812} \right]^n =$	0.3814	$=$	0.4407	$=$	144 MCF/D
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REMARKS:

SUMMARY

Item h **181** Psia
 P_c **793** Psia
 Q **327** MCF/D
 P_w **185** Psia
 P_d **634** Psia
 D **144** MCF/D

Company **SHERMAN F. WAGENSELLER**
 By **MORRIS B. JONES, Engineer**
 Title **MORRIS B. JONES, Engineer**
 Witnessed By _____
 Company _____

