

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-66

POOL NAME Undesignated Fruitland	POOL SLOPE n = .85	FORMATION Fruitland	COUNTY San Juan
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COMPANY Thomas A. Dugan			WELL NAME AND NUMBER Allen #1		
UNIT LETTER C	SECTION 12	TOWNSHIP 26N	RANGE 12W	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 5 1/2"	CASING I.D. - INCHES	SET AT DEPTH - FEET 2403'	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 1250'
GAS PAY ZONE FROM 1156' TO 1174'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .565	GRAVITY X LENGTH 706
DATE OF FLOW TEST FROM 2-6-70 TO 2-14-70			DATE SHUT-IN PRESSURE MEASURED 12-20-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.)
112	47	44	$\frac{3.95}{40}$	+4 ✓	+3 ✓	29
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
33 ✓	36 ✓	311	---	311	249 ✓	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 371	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.100 ✓	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.049 ✓	Corrected Volume Q = 389 ✓ MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 0.065	$(F_c Q_m)^2 (1000)$ 91,723 ✓	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 5,962	P_t^2 1,296 ✓	$P_w^2 = P_t^2 + R^2$ 7,258	$P_w = \sqrt{P_w^2}$ 85
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DELIVERABILITY CALCULATION

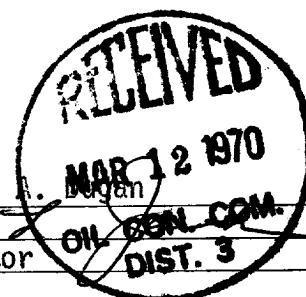
$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 389 ✓	$\left[\frac{34,720}{89,463} \right]^n \left(\frac{.3881}{.4473} \right)^{.85} =$ 174 MCF/D
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REMARKS:

SUMMARY

Item h **33** Psia
 P_c **311** Psia
 Q **389** MCF/D
 P_w **85** Psia
 P_d **249** Psia
 D **174** MCF/D

Company **Thomas A. Dugan**
 By **Operator**
 Title **Operator**
 Witnessed By _____
 Company _____



OK

