

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 1966

Form C122-A
 Revised 1-1-66

POOL NAME Aztec	POOL SLOPE n= .85	FORMATION Pictured Cliff	COUNTY San Juan
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75463

COMPANY EL PASO NATURAL GAS COMPANY			WELL NAME AND NUMBER Flanigan No. 1		
UNIT LETTER F	SECTION 32	TOWNSHIP 31	RANGE 11	PURCHASING PIPELINE EL PASO NATURAL GAS COMPANY	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2367	TUBING O.D. - INCHES NONE	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2272 TO 2306		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .673	GRAVITY X LENGTH 1529
DATE OF FLOW TEST FROM 12-20-66 TO 12-28-66			DATE SHUT-IN PRESSURE MEASURED 8-19-66		

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.) 235
(h) Corrected Meter Pressure (g + e) 235	(i) Avg. Wellhead Press. $P_t = (h + f)$ 235	(j) Shut-in Casing Pressure (DWt) 612	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k) 612	(m) Del. Pressure $P_d = \frac{80}{490} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 370	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 370 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.105	$(F_c Q_m)^2 (1000)$ 4219	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 443	P_t^2 55225	$P_w^2 = P_t^2 + R^2$ 55668	$P_w = \sqrt{P_w^2}$ 236
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 370	$\left[\frac{134444}{318876} \right]^n =$.4216	$\left[\frac{134444}{318876} \right]^n =$.4799	$=$ 178 MCF/D
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REMARKS:

New Well First Delivered 12-2-66.

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SUMMARY

Item h	235	Psia
P_c	612	Psia
Q	370	MCF/D
P_w	236	Psia
P_d	490	Psia
D	178	MCF/D

Company **EL PASO NATURAL GAS COMPANY**
 Title **H. L. Kendrick**
 Title **Regional Well Test Engineer**
 Witnessed By _____
 Company _____



