

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 66

Form C122-A
 Revised 1-1-66

POOL NAME Aztec	POOL SLOPE n= 85	FORMATION Pictured Cliff	COUNTY San Juan
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COMPANY EL PASO NATURAL GAS COMPANY			WELL NAME AND NUMBER Ludwick No. 9 (PC)		
UNIT LETTER M	SECTION 29	TOWNSHIP 30	RANGE 10	PURCHASING PIPELINE EL PASO NATURAL GAS COMPANY	
CASING O.D. - INCHES 7.625	CASING I.D. - INCHES 6.969	SET AT DEPTH - FEET 4460	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 4862
GAS PAY ZONE FROM 2482 TO 2509		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY .674	GRAVITY X LENGTH 1673
DATE OF FLOW TEST FROM 10-23-66 TO 10-31-66			DATE SHUT-IN PRESSURE MEASURED 8-31-66		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 235	(b) Flowing Tubing Pressure (DWt) 235	(c) Flowing Meter Pressure (DWt) 347	(d) Flow Chart Static Reading 347	(e) Meter Error (Item c - Item d) 347	(f) Friction Loss (a - c) or (b - c) 80/278 %P_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) 347	(k) Shut-in Tubing Pressure (DWt) 347	(l) P _c = higher value of (j) or (k) 347	(m) Del. Pressure P _d = 80/278 %P_c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 273	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 273 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
		FRICITION NEGLIGIBLE			USE P_t

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	273	$\left[\frac{43125}{65184} \right]^n =$	.6615	$=$	.7038	$=$	192 MCF/D
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REMARKS:

First Delivered After OWWO 10-5-66.

SUMMARY

Item h **235** Psia
 P_c **347** Psia
 Q **273** MCF/D
 P_w **235** Psia
 P_d **278** Psia
 D **192** MCF/D

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

