

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
 Revised 1-1-68

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Mudge No. 29		
UNIT LETTER I	SECTION 10	TOWNSHIP 31	RANGE 11	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2922	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2820 TO 2844		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .650	GRAVITY X LENGTH 1833
DATE OF FLOW TEST FROM 12-25-68 TO 1-2-69			DATE SHUT-IN PRESSURE MEASURED 8-16-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 456	(b) Flowing Tubing Pressure (DWt) 456	(c) Flowing Meter Pressure (DWt) 954	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 456
(h) Corrected Meter Pressure (g+e) 456	(i) Avg. Wellhead Press. $P_t = (h+f)$ 456	(j) Shut-in Casing Pressure (DWt) 954	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (i) or (k) 954	(m) Del. Pressure $P_d = 80\%$ P_c 763	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 312	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 312 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction neg.	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$ 456
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	312	$\left[\frac{327947}{702180} \right]^n =$	.4670	$=$	.5238	$=$	163 MCF/D
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REMARKS: **New well first delivered 12-2-68.**

SUMMARY

Item h **456** Psia
 P_c **954** Psia
 Q **312** MCF/D
 P_w **456** Psia
 P_d **763** Psia
 D **163** MCF/D

Company **EL PASO NATURAL GAS**
 Title **Regional Well Test Engineer**
 Witnessed By **Kendrick**
 Company

