

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 71

Form O-122-A
 Revised 1-1-68

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION PC	COUNTY SJ
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Nye No. 4		
UNIT LETTER G	SECTION 8	TOWNSHIP 29	RANGE 10	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2263	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2150	TO 2188	CASING xx	TUBING	.641	1378
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 1-18-71 TO 1-26-71			9-17-70		

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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 196
(h) Corrected Meter Pressure (g+e) 196	(i) Avg. Wellhead Press. $P_i = (h+f)$ 196	(j) Shut-in Casing Pressure (DWt) 616	(k) Shut-in Tubing Pressure (DWt) -	(l) $P_c =$ higher value of (j) or (k) 616	(m) Del. Pressure $P_d =$ 80 % P_c 493	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 221	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 221 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$ Friction Neg.	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$ use Pt2	$P_w = \sqrt{P_w^2}$ 196
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	221	$\left[\frac{136407}{341040} \right]^n =$	$\left[.3999 \right]^n =$	.4588	$=$	101 MCF/D
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REMARKS:

New well, 1st del. 12-23-70.

SUMMARY

Item h **196** Psia
 P_c **616** Psia
 Q **221** MCF/D
 P_w **196** Psia
 P_d **493** Psia
 D **101** MCF/D

Company **EL PASO NATURAL GAS COMPANY**
 By _____
 Title _____
 Witnessed By _____
 Company _____

