

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

Form C122-A
Revised 1-1-68

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION PC	COUNTY SJ
---------------------------	------------------------------	------------------------	---------------------

COMPANY El Paso Natural Gas Co			WELL NAME AND NUMBER 87-218 Feuille "A" No. 4		
UNIT LETTER N	SECTION 4	TOWNSHIP 29	RANGE 10	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2422	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2304 TO 2324		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .650	GRAVITY X LENGTH 1498
DATE OF FLOW TEST FROM 1-12-71 TO 1-20-71			DATE SHUT-IN PRESSURE MEASURED 9-18-70		

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.) 174
(h) Corrected Meter Pressure (g+e) 174	(i) Avg. Wellhead Press. $P_f = (h+f)$ 174	(j) Shut-in Casing Pressure (DWt) 629	(k) Shut-in Tubing Pressure (DWt) -	(l) $P_c =$ higher value of (j) or (k) 629	(m) Del. Pressure $P_d = \frac{80}{503} \% P_c$ 503	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 202	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 202 MCF/D
---	--	---	--

WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction	$(F_c Q_m)^2 (1000)$ Neg.	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$ Use Pt2	$P_w = \sqrt{P_w^2}$ 174
---------------------------------	-------------------------------------	---------------------------------------	---------	---	------------------------------------

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{202}{\left[\frac{142632}{365365} \right]^n} = \frac{202}{.3903^n} = \frac{202}{.4495} = 92 \text{ MCF/D}$$

REMARKS:

New well, 1st del. 12-17-70.

SUMMARY

Item h **174** Psia
 P_c **629** Psia
 Q **202** MCF/D
 P_w **174** Psia
 P_d **503** Psia
 D **91** MCF/D

Company **EL PASO NATURAL GAS COMPANY**
 By **H. E. McAnally**
 Title _____
 Witnessed By _____
 Company _____

