

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
---------------------------	------------------------------	------------------------	---------------------

87-220

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Nye No. 3		
UNIT LETTER E	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 2230	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 2108 TO 2122		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .645	GRAVITY X LENGTH 1360
DATE OF FLOW TEST FROM 1-18-71 TO 1-26-71			DATE SHUT-IN PRESSURE MEASURED 9-16-70		

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.) 189
(h) Corrected Meter Pressure (g+e) 189	(i) Avg. Wellhead Press. $P_f = (h+f)$ 189	(j) Shut-in Casing Pressure (DWt) 523	(k) Shut-in Tubing Pressure (DWt) -	(l) $P_c =$ higher value of (j) or (k) 523	(m) Del. Pressure $P_d = \frac{80}{100} P_c$ 418	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 156	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 156 MCF/D
---	--	---	--

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	$P_w = \sqrt{P_w^2}$ 189
--------------------------------------	----------------------	---------------------------------------	---------	--	------------------------------------

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{156}{\left[\frac{98805}{237808} \right]^n} = \frac{156}{(.4154)^n} = \frac{156}{.4739} = 74 \text{ MCF/D}$$

REMARKS:

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

SUMMARY

Item h 189 Psia
 P_c 523 Psia
 Q 156 MCF/D
 P_w 189 Psia
 P_d 418 Psia
 D 74 MCF/D

Company EL PASO NATURAL GAS COMPANY

By _____

Title _____

Witnessed By _____

Company _____

JAN 5 1971
N.M. OCM.
DIST. 3