NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C-122-A
Revised 1-1-68

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

87-188

COMPANY			WELL NAME AND NUMBER		
El Paso Natural Gas Co			Heaton No. 24		
UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
E	30	31	11	EPNG	
CASING O.D. - INCHES	CASING I.D. - INCHES	SET AT DEPTH - FEET	TUBING O.D. - INCHES	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
2.875	2.441	2580	no tubing		
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 2386 TO 2416		CASING XX TUBING		.667	1591
DATE OF FLOW TEST			DATE SHUT-IN PRESSURE MEASURED		
FROM 11-29-70 TO 12-7-70			10-8-70		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
-	-	-	-	0	0	192
(h) Corrected Meter Pressure (g+e)	**(i) Avg. Wel head Press. P_t= (h+f)**	**(j) Shut-in Casing Pressure (DWt)**	**(k) Shut-in Tubing Pressure (DWt)**	**(l) P_c= higher value of (j) or (k)**	**(m) Del. Pressure**	**(n) Separator or Dehydrator Pr. (DWt) for critical flow only**
192	192	644	-	644	P_d= 80 %P_c 515	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of Item c / Item d	$\sqrt{\text{Item c / Item d}}$	Corrected Volume
367	1.0000	1.0000	Q = 367 MCF/D

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	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.109	4150	452	36864	37316	193

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 367\left[\left(\frac{149511}{377420}\right)^n = (.3961)^n = .4552\right] = 167 \text{ MCF/D}$$

REMARKS: New well, 1st del. 11-12-70.

SUMMARY

Item h	192	Psia
P_c	644	Psia
Q	367	MCF/D
P_w	193	Psia
P_d	515	Psia
D	167	MCF/D

Company EL PASO NATURAL GAS CO
By R E Stauffer
Title
Witnessed By
Company

RECEIVED
DEC 23 1970
OIL CON. COM.
DIST. 3