

1974
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 1970

Form C122-A
Revised 1-1-68

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

87-193

COMPANY El Paso Natural Gas Co			WELL NAME AND NUMBER Hartman No. 2		
UNIT LETTER A	SECTION 26	TOWNSHIP 30	RANGE 11	PURCHASING FIELD EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2584	TUBING O.D. - INCHES no tubing	TUBING I.D. - INCHES	TOP - TUBING SURF. - FEET
GAS PAY ZONE FROM 2424 TO 2460		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .650	GRAVITY X LENGTH 1576
DATE OF FLOW TEST FROM 12-5-70 TO 12-13-70			DATE SHUT-IN PRESSURE MEASURED 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.) 160
(h) Corrected Meter Pressure (g+e) 160	(i) Avg. Wellhead Press. $P_i = (h+f)$ 160	(j) Shut-in Casing Pressure (DWt) 421	(k) Shut-in Tubing Pressure (DWt) -	(l) $P_c =$ higher value of (j) or (k) 421	(m) Del. Pressure $P_d =$ 337 % P_c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 349	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume 349 MCF/D
---	--	---	--------------------------------------

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.108	$(F_c Q_m)^2 (1000)$ 3753	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 405	P_i^2 25600	$P_w^2 = P_i^2 + R^2$ 26005	$P_w = \sqrt{P_w^2}$ 161
-----------------------------	-------------------------------------	---	-------------------------	---------------------------------------	------------------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	349	$\left[\frac{63672}{151236} \right]^n$	$\left[.4210 \right]^n$	.4794	167 MCF/D
--	------------	---	--------------------------	--------------	------------------

REMARKS:

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

SUMMARY

Item h **160** Psia
 P_c **421** Psia
 Q **349** MCF/D
 P_w **161** Psia
 P_d **337** Psia
 D **167** MCF/D

Company **EL PASO NATURAL GAS CO**

By **R. E. Stauffer**

Title

Witnessed By

Company

