

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
 Revised 1-1-63

POOL NAME Otero	POOL SLOPE n = .75	FORMATION CH	COUNTY RA
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87-117

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Vaughn No. 10		
UNIT LETTER I	SECTION 28	TOWNSHIP 26	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3561	TUBING O.D. - INCHES None	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3404 TO 3508		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .728	GRAVITY X LENGTH 2478
DATE OF FLOW TEST FROM 1-17-70 TO 1-25-70			DATE SHUT-IN PRESSURE MEASURED 12-2-69		

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. 281
(h) Corrected Meter Pressure (g+e) 281	(i) Avg. Wellhead Press. $P_i = (h+f)$ 281	(j) Shut-in Casing Pressure (DWt) 942	(k) Shut-in Tubing Pressure (DWt) =	(l) $P_c =$ higher value of (j) or (k) 942	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$ 754	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 141	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume 141
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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 P_t^2	$P_w = \sqrt{P_w^2}$ 281
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 141	$\left(\frac{318848}{808403} \right)^n =$.3944	$\left(\frac{318848}{808403} \right)^n =$.4977	$=$ 70
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REMARKS:

New Well 1st del. 12-26-69

SUMMARY

Item h	281	Psia
P_c	942	Psia
Q	141	MCF/D
P_w	281	Psia
P_d	754	Psia
D	70	MCF/D

OK

Company **El Paso Natural GasCo.**
 By **H. E. M. [Signature]**
 Title _____
 Witnessed By _____
 Company _____

