

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

Form C122-A
 Revised 1-1-66

POOL NAME <u>Basin</u>	POOL SLOPE <u>n = .75</u>	FORMATION <u>DK</u>	COUNTY <u>BA</u>
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87261

COMPANY <u>El Paso Natural Gas Company</u>			WELL NAME AND NUMBER <u>Vaughn No. 12</u>		
UNIT LETTER <u>K</u>	SECTION <u>26</u>	TOWNSHIP <u>26</u>	RANGE <u>6</u>	PURCHASING PIPELINE <u>EPNG</u>	
CASING O.D. - INCHES <u>4.500</u>	CASING I.D. - INCHES <u>4.032</u>	SET AT DEPTH - FEET <u>7544</u>	TUBING O.D. - INCHES <u>2.375</u>	TUBING I.D. - INCHES <u>1.995</u>	TOP - TUBING PERF. - FEET <u>7442</u>
GAS PAY ZONE FROM <u>7228</u> TO <u>7448</u>		WELL PRODUCING THRU CASING <u>xxx</u> TUBING <u>xxx</u>		CAS GRAVITY <u>.680</u>	GRAVITY X LENGTH <u>5061</u>
DATE OF FLOW TEST FROM <u>7-31-71</u> TO <u>8-8-71</u>			DATE SHUT-IN PRESSURE MEASURED <u>6-16-71</u>		

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	232
(h) Corrected Meter Pressure (g+c)	(i) Avg. Wellhead Press. $P_f = (b+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d = 50 \text{ psi}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
232	232	2410	2410	2410	1205	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
465	1.0000	1.0000	Q = 465 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_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.308	19114	5887	53824	59711	244

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	465	$\left(\frac{4356075}{5248389} \right)^n$	$(.7577)^n$	.8122	378 MCF/D
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REMARKS:

First delivered - 7-14-71

SUMMARY

Item h 232 Psia
 P_c 2410 Psia
 Q 465 MCF/D
 P_w 244 Psia
 P_d 1205 Psia
 D 378 MCF/D

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

