

WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Bakota	COUNTY Rio Arriba
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87-316

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Vaughn No. 14		
UNIT LETTER K	SECTION 27	TOWNSHIP 26	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7199	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7125
GAS PAY ZONE FROM 6812 TO 7120		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .655	GRAVITY X LENGTH 4667
DATE OF FLOW TEST FROM 11-28-71 TO 12-6-71			DATE SHUT-IN PRESSURE MEASURED 8-6-71		

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.) 504
(h) Corrected Meter Pressure (g+e) 504	(i) Avg. Wellhead Press. $P_i = (h+f)$ 504	(j) Shut-in Casing Pressure (DWt) 2591	(k) Shut-in Tubing Pressure (DWt) 2103	(l) $P =$ higher value of (j) or (k) 2591	(m) Del. Pressure $P_d = 50\% P_i$ 1296	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 3225	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.000	Corrected Volume Q = 3225 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.288	$(F_c Q_m)^2 (1000)$ 919390	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 264784	P_i^2 254016	$P_w^2 = P_i^2 + R^2$ 518800	$P_w = \sqrt{P_w^2}$ 720
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{3225}{\left(\frac{5033665}{6194481} \right)^n} = \frac{.8126}{.8559} = 2760 \text{ MCF/D}$$

REMARKS: New Well - First Delivered 11-13-71

SUMMARY

Item h 504 Psia
P_c 2591 Psia
Q 3225 MCF/D
P_w 720 Psia
P_d 1296 Psia
D 2760 MCF/D

Company EL PASO NATURAL GAS COMPANY
By [Signature]
Title
Witnessed By
Company

