

Delivered

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = 75	FORMATION Dakota	COUNTY Rio Arriba
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75-914

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER San Juan 27-4 Unit No. 48		
UNIT LETTER # L	SECTION 20	TOWNSHIP 27	RANGE 4	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4500	CASING I.D. - INCHES 4052	SET AT DEPTH - FEET 8173 ✓	TUBING O.D. - INCHES 2375	TUBING I.D. - INCHES 1995	TOP - TUBING PERF. - FEET 7884
GAS PAY ZONE FROM 7942 TO 8158 ✓		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 5345
DATE OF FLOW TEST FROM 12-29-68 TO 1-06-69			DATE SHUT-IN PRESSURE MEASURED 11-05-68		

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.) 505
(h) Corrected Meter Pressure (g+e) 505	(i) Avg. Wellhead Press. $P_t = (h+f)$ 505	(j) Shut-in Casing Pressure (DWt) 2533	(k) Shut-in Tubing Pressure (DWt) 2549	(l) $P_c =$ higher value of (j) or (k) 2549	(m) Del. Pressure $P_d = \frac{50}{1275} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 573	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 573 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.322	$(F_c Q_m)^2 (1000)$ 29023	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 9345	P_t^2 255025	$P_w^2 = P_t^2 + R^2$ 264370	$P_w = \sqrt{P_w^2}$ 514
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	573	$\left(\frac{4871776}{6233031} \right)^n =$	$.7816^n =$	$.8312 =$	476 MCF/D
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REMARKS:

New well first delivered 12-07-68

SUMMARY

Item h 505 Psia
 P_c 2549 Psia
 Q 573 MCF/D
 P_w 514 Psia
 P_d 1275 Psia
 D 476 MCF/D

Company EL PASO NATURAL GAS COMPANY
 B. H. Kendrick
 Title Regional Well Test Engineer
 Witnessed By _____
 Company _____

