

deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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73196

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 27-4 Unit No. 30 (DK)		
UNIT LETTER N	SECTION 32	TOWNSHIP 27	RANGE 4	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8494	TUBING O.D. - INCHES 2.0625	TUBING I.D. - INCHES 1.750	TOP - TUBING PERF. - FEET 8100
GAS PAY ZONE FROM 8158 TO 8462		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .718	GRAVITY X LENGTH 5816
DATE OF FLOW TEST FROM 6-4-68 TO 6-11-68			DATE SHUT-IN PRESSURE MEASURED 1-8-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 526	(b) Flowing Tubing Pressure (DWt) 526	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading 1138	(e) Meter Error (Item c - Item d) 1138	(f) Friction Loss (a-c) or (b-c) 569	(g) Average Meter Pressure (Integr.) 526
(h) Corrected Meter Pressure (g+e) 526	(i) Avg. Wellhead Press. $P_i = (h+f)$ 526	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_e = higher value of (i) or (k) 1138	(m) Del. Pressure $P_d = 50\% P_c$ 569	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 62	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 62 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ FRICITION NEGLIGIBLE	P_i^2	$P_w^2 = P_i^2 + R^2$ USE P_t^2	$P_w = \sqrt{P_w^2}$ 526
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	62	$\left[\frac{971283}{1018368} \right]^n =$	$\left[.9537 \right]^n =$	$.9651$	$=$	60 MCF/D
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REMARKS:

First Delivered after CWWO 5-14-68.

SUMMARY

Item h **526** Psia
 P_c **1138** Psia
 Q **62** MCF/D
 P_w **526** Psia
 P_d **569** Psia
 D **60** MCF/D

Company **El Paso Natural Gas Company**
 By **H. L. Kendrick**
 Title **Regional Well Test Engineer**
 Witnessed By _____
 Company _____

