

In
Delivery

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

Form O122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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87-246

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 28-5 Unit No. 85		
UNIT LETTER J	SECTION 8	TOWNSHIP 28	RANGE 5	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7915	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOE - TUBING PERF. - FEET 7902
GAS PAY ZONE FROM 7756 TO 7904		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .579	GRAVITY X LENGTH 4575
DATE OF FLOW TEST FROM 7-1-71 TO 7-9-71			DATE SHUT-IN PRESSURE MEASURED 3-9-71		

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)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
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(h) Corrected Meter Pressure (a-f)	(i) Avg. Wellhead Press. $P_t = (b+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{50}{1330} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
368	368	2659	2606	2659		

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
1473	1.0000	1.0000	Q = 1473 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.283	$(F_c Q_m)^2 (1000)$ 587848	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 166361	P_t^2 135424	$P_w^2 = P_t^2 + R^2$ 301785	$P_w = \sqrt{P_w^2}$ 549
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	1473	$\left(\frac{5301381}{6768496} \right)^n =$	0.7832	$=$	0.8326	$=$	1226 MCF/D
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REMARKS: New Well, first delivered 6-8-71.

SUMMARY

Item h 368 Psia
P_c 2659 Psia
Q 1473 MCF/D
P_w 549 Psia
P_d 1330 Psia
D 1226 MCF/D

Company EL PASO NATURAL GAS COMPANY

By *L. E. McElwain*

Title

Witnessed By

Company

