

Initial Deliverability

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

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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87-245

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 29-5 Unit No. 52		
UNIT LETTER G	SECTION 29	TOWNSHIP 29	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 8212	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 8137
GAS PAY ZONE FROM 8010 TO 8163		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .585	GRAVITY X LENGTH 4760
DATE OF FLOW TEST FROM 7-4-71 TO 7-12-71			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) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 373
(h) Corrected Meter Pressure (g+e) 373	(i) Avg. Wellhead Press. $P_i = (h+f)$ 373	(j) Shut-in Casing Pressure (DWt) 2617	(k) Shut-in Tubing Pressure (DWt) 2621	(l) $P_c =$ higher value of (j) or (k) 2621	(m) Del. Pressure $P_d =$ 50 1311	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 764	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 764 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.293	$(F_c Q_m)^2 (1000)$ 158142	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 46336	P_i^2 139129	$P_w^2 = P_i^2 + R^2$ 185465	$P_w = \sqrt{P_w^2}$ 431
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	764	$\left[\frac{5150920}{6684176} \right]^n =$	$(0.7706)^n =$	0.8225	= 628 MCF/D
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REMARKS:

New Well, first delivered June 5, 1971.

SUMMARY

Item h 373 Psia
P_c 2621 Psia
Q 764 MCF/D
P_w 431 Psia
P_d 1311 Psia
D 628 MCF/D

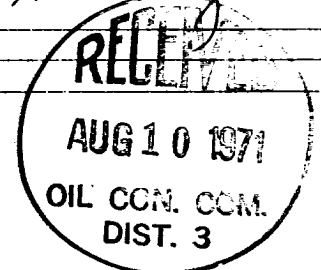
Company EL PASO NATURAL GAS COMPANY

By H. E. McAnally

Title

Witnessed By

Company



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