

Initial
Deliverability Test

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 DK	COUNTY Rio Arriba
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86-658

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 29-6 Unit No. 101		
UNIT LETTER A	SECTION 36	TOWNSHIP 29	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7907	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7835
GAS PAY ZONE FROM 7607 TO 7836		WELL PRODUCING TUBING CASING TUBING XX		GAS GRAVITY .586	GRAVITY X LENGTH 4591
DATE OF FLOW TEST FROM 9-19-71 TO 9-27-71			DATE SHUT-IN PRESSURE MEASURED 3-31-71		

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.) 411
(h) Corrected Meter Pressure (g+c) 411	(i) Avg. Wellhead Press. $P_t = (h+f)$ 411	(j) Shut-in Casing Pressure (DWt) 2599	(k) Shut-in Tubing Pressure (DWt) 2599	(l) P_c = higher value of (j) or (k) 2599	(m) Del. Pressure $P_d = 50\% P_c$ 1300	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 302	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 302 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.284	$(F_c q_m)^2 (1000)$ 24710	$R^2 = (1-e^{-s}) (F_c q_m)^2 (1000)$ 7018	P_t^2 168921	$P_w^2 = P_t^2 + R^2$ 175939	$P_w = \sqrt{P_w^2}$ 419
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 302	$\left[\frac{5064801}{6578862} \right]^n =$ 0.7699	$\left[\frac{5064801}{6578862} \right]^n =$ 0.8219	$=$ 248 MCF/D
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REMARKS: New Well 1st Del. July 24, 1971

SUMMARY

Item h	411	Psia
P_c	2599	Psia
Q	302	MCF/D
P_w	419	Psia
P_d	1300	Psia
D	248	MCF/D

Company EL PASO NATURAL GAS COMPANY

By H. E. McAnally

Title

Witnessed By

Company

