

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C12-A
Revised 1-1-66

WELL NAME Basin		POOL DEPTH 11.75		FORMATION DK		COUNTY RA	
COMPANY El Paso Natural Gas Company				WELL NAME AND NUMBER San Juan 29-5 Unit No. 53			
UNIT LETTER L	SECTION 32	TOWNSHIP 29	RANGE 5	PURCHASING PIPELINE ELONG			
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7927	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TCP - TUBING PERF. - FEET 7864		
GAS PAY ZONE FROM 7718 TO 7858		WELL PRODUCTION THRU CASING TUBING XX		GAS GRAVITY .585		GRAVITY X LENGTH 4600 ✓	
DATE OF FLOW TEST FROM 7-9-71 TO 7-17-71				DATE SHUT-IN PRESSURE MEASURED 3-23-71			

86652

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 (g+c)	(i) Avg. Wellhead Press. $P_i = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d = 50\% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
373 ✓	373 ✓	2320	2320	2320	1160 ✓	

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
593	1.0000	1.0000	593 ✓ MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$ ✓	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_i^2 ✓	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.284	95273	27057	139129	166186	408 ✓

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_i^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	593 ✓	$\left[\frac{4036800}{5216214} \right]^n =$	$(.7738) ^n =$	.8251 ✓	489 ✓ MCF/D
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REMARKS:

New well, 1st del. June 17, 1971

SUMMARY

Item h 373 ✓ Psia
 P_c 2320 ✓ Psia
 Q 593 ✓ MCF/D
 P_w 408 ✓ Psia
 P_d 1160 ✓ Psia
 D 489 ✓ MCF/D

Company EL PASO NATURAL GAS COMPANYBy A. E. McAnally

Title _____

Witnessed By _____

Company _____

RECEIVED

AUG 24 1971

OIL CON. COM.
DIST. 3