

Initial
deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 72

Form C122-A
Revised 1-1-68

POOL NAME Undesignated	POOL SLOPE n = .75	FORMATION Chacara	COUNTY Rio Arriba
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87-328

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 28-7 Unit No. 160		
UNIT LETTER 0	SECTION 19	TOWNSHIP 27	RANGE 7	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 4076	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3914 TO 4056		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .659	GRAVITY X LENGTH 2579
DATE OF FLOW TEST FROM 12-25-71 TO 1-2-71			DATE SHUT-IN PRESSURE MEASURED 10-12-71		

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.)
--	--	--	--	0	0	130
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_f = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
130	130	977	--	977	782	

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
237	1.0000	1.0000	Q = 237 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_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.171	1731	296	16900	17196	131

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 237 \left[\frac{343005}{937333} \right]^n = (0.3659)^n = 0.4705 = 112 \text{ MCF/D}$$

REMARKS:

New Well 1st Del. 12-8-71

SUMMARY

Item h	130	Psia
P_c	977	Psia
Q	237	MCF/D
P_w	131	Psia
P_d	782	Psia
D	112	MCF/D

Company EL PASO NATURAL GAS COMPANY

By H.E. McAnally

Title

Witnessed By

Company

