

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 DK	COUNTY RA
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86-654

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 27-5 Unit No. 130		
UNIT LETTER B	SECTION 26	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.502	SET AT DEPTH - FEET 7822	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7756
GAS PAY ZONE FROM 7518 TO 7770		WELL PRODUCING THRU CASING TUBING XXXX		GAS GRAVITY .671	GRAVITY X LENGTH 5204
DATE OF FLOW TEST FROM 8-8-71 TO		DATE SHUT-IN PRESSURE MEASURED 8-16-71		6-17-71	

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.) 490
(h) Corrected Meter Pressure (g+a) 490	(i) Avg. Wellhead Press. $P_i = (h + f)$ 490	(j) Shut-in Casing Pressure (DWt) 2504	(k) Shut-in Tubing Pressure (DWt) 2439	(l) P_c = higher value of (j) or (k) 2504	(m) Del. Pressure $P_d = 50\% P_c$ 1252	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 765	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 765 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.315	$(F_c Q_m)^2 (1000)$ 158556	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 49945	P_i^2 240100	$P_w^2 = P_i^2 + R^2$ 290045	$P_w = \sqrt{P_w^2}$ 539
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	765	$\left(\frac{4702512}{5979971} \right)^n =$	$(.7864)^n =$	$.8351^0 =$	639 MCF/D
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REMARKS:

New well, 1st del. 7-21-71

SUMMARY

Item h 490 Psia
P_c 2504 Psia
Q 765 MCF/D
P_w 539 Psia
P_d 1252 Psia
D 639 MCF/D

Company EL PASO NATURAL GAS COMPANY
By H. E. McAnally
Title
Witnessed By
Company

