

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

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

75771

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 28-4 Unit No. 31		
UNIT LETTER M	SECTION 32	TOWNSHIP 28	RANGE 4	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4500	CASING I.D. - INCHES 4052	SET AT DEPTH - FEET 8344	TUBING O.D. - INCHES 2375	TUBING I.D. - INCHES 1995	TOP - TUBING PERF. FEET 8238
GAS PAY ZONE FROM 8102 TO 8290		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 678	GRAVITY X LENGTH 5585
DATE OF FLOW TEST FROM 5-27-68 TO 6-4-68			DATE SHUT-IN PRESSURE MEASURED 2-14-68		

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.) 505
(h) Corrected Meter Pressure (g+e) 505	(i) Avg. Wellhead Press. $P_t = (h+f)$ 505	(j) Shut-in Casing Pressure (DWt) 2632	(k) Shut-in Tubing Pressure (DWt) 2656	(l) $P_t =$ higher value of (i) or (k) 2656	(m) Del. Pressure $P_d = 50$ 1328	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1260	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 1260 MCF/D
--	--	---	---

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.334	$(F_c Q_m)^2 (1000)$ 140351	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 46877	P_t^2 255025	$P_w^2 = P_t^2 + R^2$ 301902	$P_w = \sqrt{P_w^2}$ 549
-----------------------------	---------------------------------------	---	--------------------------	--	------------------------------------

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1260	$\left(\frac{5290752}{6752434} \right)^n =$.7835	$=$.8327	$=$ 1049 MCF/D
--	---	------------------	-----------------------

REMARKS: **New well first delivered 5-19-68.**

SUMMARY

Item h	505	Psia
P_c	2656	Psia
Q	1260	MCF/D
P_w	549	Psia
P_d	1328	Psia
D	1049	MCF/D

OK
Company **El Paso Natural Gas Company**
Title **[Signature]**
Witnessed By _____
Company _____

