

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 66

Form C122-A
 Revised 1-1-66

POOL NAME Basin		POOL SLOPE n= .75	FORMATION Dakota	COUNTY Rio Arriba	
COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 32-5 Unit No. 4		
UNIT LETTER N	SECTION 23	TOWNSHIP 32	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 4.950	SET AT DEPTH - FEET 8079	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7987
GAS PAY ZONE FROM 7834 TO 7970		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .602	GRAVITY X LENGTH 4808
DATE OF FLOW TEST FROM 5-28-66 TO 6-05-66			DATE SHUT-IN PRESSURE MEASURED 2-04-66		

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.) 504
(h) Corrected Meter Pressure (g + e) 504	(i) Avg. Wellhead Press. $P_t = (h + f)$ 504	(j) Shut-in Casing Pressure (DWt) 1085	(k) Shut-in Tubing Pressure (DWt) 784	(l) P_c = higher value of (j) or (k) 1085	(m) Del. Pressure $P_d = 50 \% P_c$ 43	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 435	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.000	Corrected Volume Q = 435 MCF/D
---	---	--	--

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$.295	$(F_c Q_m)^2 (1000)$ 16728	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 4935	P_t^2 254016	$P_w^2 = P_t^2 + R^2$ 258951	$P_w = \sqrt{P_w^2}$ 509
-------------------------------	--------------------------------------	--	--------------------------	--	------------------------------------

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 435 \left[\frac{882376}{918274} \right]^n = .9609^n = .9705 = 422 \text{ MCF/D}$$

REMARKS:

Installed Intermittent 5-10-66.

SUMMARY

Item h	504	Psia
P_c	1085	Psia
Q	435	MCF/D
P_w	509	Psia
P_d	543	Psia
D	422	MCF/D

Company **El Paso Natural Gas Company**
 By **J. R. Hendrick**
 Title **Area Gas Well Test Engineer**
 Witnessed By _____
 Company _____

