

Deliverable

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19

Form C122-A
Revised 1-1-68

POOL NAME Blanco	POOL SLOPE n = .75	FORMATION Mesa Verde	COUNTY San Juan
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70-676

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER San Juan 32-9 Unit No. 17 (OWWO)		
UNIT LETTER K	SECTION 8	TOWNSHIP 31	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 5943	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 5856
GAS PAY ZONE FROM 5386 TO 5910		WELL PRODUCING THRU CASING TUBING xxx		GAS GRAVITY .627	GRAVITY X LENGTH 3672
DATE OF FLOW TEST FROM 7-04-69 TO 7-12-69			DATE SHUT-IN PRESSURE MEASURED 11-19-68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 449	(b) Flowing Tubing Pressure (DWt) 449	(c) Flowing Meter Pressure (DWt) 886	(d) Flow Chart Static Reading 813	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 449
(h) Corrected Meter Pressure (g+e) 449	(i) Avg. Wellhead Press. $P_i = (h+f)$ 449	(j) Shut-in Casing Pressure (DWt) 886	(k) Shut-in Tubing Pressure (DWt) 813	(l) P_c = higher value of (j) or (k) 886	(m) Del. Pressure $P_d = \frac{80}{709} \% P_c$ 709	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 439	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 439 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.234	$(F_c Q_m)^2 (1000)$ 17035	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 3986	P_i^2 201601	$P_w^2 = P_i^2 + R^2$ 205587	$P_w = \sqrt{P_w^2}$ 453
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{439}{\left[\frac{282315}{579787} \right]^n} = \frac{439}{0.4869^n} = \frac{439}{.5826} = 256 \text{ MCF/D}$$

REMARKS:

SUMMARY

Item h	449	Psia
P_c	886	Psia
Q	439	MCF/D
P_w	453	Psia
P_d	709	Psia
D	256	MCF/D

Company **EL PASO NATURAL GAS COMPANY**
By **H. E. McAna**
Title **Well Test Engineer**
Witnessed By
Company

