

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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75-998

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit No. 198		
UNIT LETTER J	SECTION 27	TOWNSHIP 26	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6766	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6723
GAS PAY ZONE FROM 6620 TO 6720		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .709	GRAVITY X LENGTH 4767
DATE OF FLOW TEST FROM 6-30-69 TO 7-8-69			DATE SHUT-IN PRESSURE MEASURED 5-16-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 312	(b) Flowing Tubing Pressure (DWt) 312	(c) Flowing Meter Pressure (DWt) 1707	(d) Flow Chart Static Reading 1520	(e) Meter Error (Item c - Item d) 1707	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 312
(h) Corrected Meter Pressure (g+e) 312	(i) Avg. Wellhead Press. $P_f = (h+f)$ 312	(j) Shut-in Casing Pressure (DWt) 1707	(k) Shut-in Tubing Pressure (DWt) 1520	(l) P_c = higher value of (j) or (k) 1707	(m) Del. Pressure $P_d = \frac{50}{854} \% P_c$ 50	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 481	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 481 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.293	$(F_c Q_m)^2 (1000)$ 20452	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 5992	P_t^2 97344	$P_w^2 = P_t^2 + R^2$ 103336	$P_w = \sqrt{P_w^2}$ 321
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{481}{\left(\frac{2184533}{2810513} \right)^n} = \frac{0.7772}{0.8277} = 398 \text{ MCF/D}$$

REMARKS:

New well 1st. del. June 5, 1969

SUMMARY

Item h **312** Psia
 P_c **1707** Psia
 Q **481** MCF/D
 P_w **321** Psia
 P_d **854** Psia
 D **398** MCF/D

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

