

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
--------------------	-----------------------	---------------------	--------------------

75-999

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit No. 196		
UNIT LETTER P	SECTION 21	TOWNSHIP 26	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6738	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6608
GAS PAY ZONE FROM 6542 TO 6612		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .699	GRAVITY X LENGTH 4619
DATE OF FLOW TEST FROM 6-30-69 TO 7-08-69			DATE SHUT-IN PRESSURE MEASURED 5-22-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 428	(b) Flowing Tubing Pressure (DWt) 428	(c) Flowing Meter Pressure (DWt) 1707	(d) Flow Chart Static Reading 1163	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 428
(h) Corrected Meter Pressure (g+e) 428	(i) Avg. Wellhead Press. $P_f = (h+f)$ 428	(j) Shut-in Casing Pressure (DWt) 1707	(k) Shut-in Tubing Pressure (DWt) 1163	(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 1164	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1164 MCF/D
-----------------------------------	---	--	------------------------------------

WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 0.285	$(F_c Q_m)^2 (1000)$ 119770	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 34134	P_i^2 183184	$P_w^2 = P_i^2 + R^2$ 217318	$P_w = \sqrt{P_w^2}$ 466
-----------------------	--------------------------------	--	-------------------	---------------------------------	-----------------------------

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1164}{\left(\frac{2184533}{2696531} \right)^n} = \frac{0.8101}{0.8538} = 994 \text{ MCF/D}$$

REMARKS: New well First del. June 5, 1969

SUMMARY

Item h	428	Psia
P_c	1707	Psia
Q	1164	MCF/D
P_w	466	Psia
P_d	854	Psia
D	994	MCF/D

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

