

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1969

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY San Juan
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87-014

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit No. 197		
UNIT LETTER I	SECTION 28	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 6732	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6534
GAS PAY ZONE FROM 6543 TO 6672		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 4430
DATE OF FLOW TEST FROM 7-24-69 TO 8-1-69			DATE SHUT-IN PRESSURE MEASURED 6-27-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 417	(b) Flowing Tubing Pressure (DWt) 417	(c) Flowing Meter Pressure (DWt) 1644	(d) Flow Chart Static Reading 1649	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 417
(h) Corrected Meter Pressure (g+e) 417	(i) Avg. Wellhead Press. $P_t = (h+f)$ 417	(j) Shut-in Casing Pressure (DWt) 1644	(k) Shut-in Tubing Pressure (DWt) 1649	(l) P_s = higher value of (j) or (k) 1649	(m) Del. Pressure $P_d = 50$ % P_s 825	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 1703	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 1703 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.275	$(F_c Q_m)^2 (1000)$ 256372	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 70502	P_t^2 173889	$P_w^2 = P_t^2 + R^2$ 244391	$P_w = \sqrt{P_w^2}$ 494
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ 1703	$\left[\frac{2038576}{2474810} \right]^n$.8237	$\left[\frac{2038576}{2474810} \right]^n$.8647	$= 1473$ MCF/D
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REMARKS:

New well, first delivered June 25, 1969.

SUMMARY

Item h	417	Psia
P _c	1649	Psia
Q	1703	MCF/D
P _w	494	Psia
P _d	825	Psia
D	1473	MCF/D

Company El Paso Natural Gas Company
L. Kendrick
 Title Division Well Test Engineer
 Witnessed By _____
 Company _____

