

Deliverable

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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75-969

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Huerfano Unit No. 185		
UNIT LETTER 0	SECTION 12	TOWNSHIP 26	RANGE 10	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6851	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6773
GAS PAY ZONE FROM 6648 TO 6796		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .683	GRAVITY X LENGTH 4626
DATE OF FLOW TEST FROM 5-5-69 TO 5-13-69			DATE SHUT-IN PRESSURE MEASURED 2-26-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 463	(b) Flowing Tubing Pressure (DWt) 463	(c) Flowing Meter Pressure (DWt) 1968	(d) Flow Chart Static Reading 1963	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 463
(h) Corrected Meter Pressure (g+e) 463	(i) Avg. Wellhead Press. $P_f = (h+f)$ 463	(j) Shut-in Casing Pressure (DWt) 1968	(k) Shut-in Tubing Pressure (DWt) 1963	(l) P_c = higher value of (i) or (k) 1968	(m) Del. Pressure $P_d = \frac{50}{984} P_c$ 984	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 734	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 734 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.286	$(F_c Q_m)^2 (1000)$ 47624	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 13620	P_i^2 214369	$P_w^2 = P_i^2 + R^2$ 227989	$P_w = \sqrt{P_w^2}$ 477
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{734}{\left(\frac{2904768}{3645035} \right)^n} = \frac{0.7969}{0.8433} = 619 \text{ MCF/D}$$

REMARKS:

New well first delivered 4-2-69

SUMMARY

Item h	463	Psia
P_c	1968	Psia
Q	734	MCF/D
P_w	477	Psia
P_d	984	Psia
D	619	MCF/D

Company **EL PASO NATURAL GAS COMPANY**
 By **H. L. Kendrick**
 Title **Regional Well Test Engineer**
 Witnessed By _____
 Company _____

