

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 SJ
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75-993

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER HUERFANO UNIT #189		
UNIT LETTER L	SECTION 7	TOWNSHIP 25	RANGE 9	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.580	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 6878	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6753
GAS PAY ZONE FROM 6712 TO 6760		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.715	GRAVITY X LENGTH 4828
DATE OF FLOW TEST FROM 06/21/69 TO 06/29/69			DATE SHUT-IN PRESSURE MEASURED 05/06/69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 0	(b) Flowing Tubing Pressure (DWt) 0	(c) Flowing Meter Pressure (DWt) 0	(d) Flow Chart Static Reading 0	(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. $P_t = (h+f)$ 463	(j) Shut-in Casing Pressure (DWt) 1959	(k) Shut-in Tubing Pressure (DWt) 1610	(l) P_c = higher value of (j) or (k) 1959	(m) Del. Pressure $P_d = \frac{50}{980} P_c$ 980	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 617	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 617 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.296	$(F_c Q_m)^2 (1000)$ 33,652	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 9961	P_t^2 214369	$P_w^2 = P_t^2 + R^2$ 224330	$P_w = \sqrt{P_w^2}$ 474
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DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{617}{\left[\frac{2877281}{3613351} \right]^n} = \frac{0.7962}{0.8429} = 520 \text{ MCF/D}$$

REMARKS: New Well First delivered June 10, 1969

SUMMARY

Item h **463** Psia
 P_c **1959** Psia
 Q **617** MCF/D
 P_w **474** Psia
 P_d **980** Psia
 D **520** MCF/D

Company **EL PASO NATURAL GAS CO**By *R.E. Stauffer*

Title

Witnessed By

Company



