

Initial Deliverability

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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75-991

COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Huerfano Unit No. 119		
UNIT LETTER E	SECTION 15	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 6895	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 6839
GAS PAY ZONE FROM 6727 TO 6847		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .720	GRAVITY X LENGTH 4921
DATE OF FLOW TEST FROM 6-30-69 TO 7-08-69			DATE SHUT-IN PRESSURE MEASURED 3-27-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
				0	0	411
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_i = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{50}{893} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
411	411	1785	1459	1785		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 639	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume q = 639 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 0.301	$(F_c Q_m)^2 (1000)$ 36095	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 10864	P_i^2 168921	$P_w^2 = P_i^2 + R^2$ 179785	$P_w = \sqrt{P_w^2}$ 424
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	639	$\left[\frac{2388776}{3006440} \right]^n =$	$(0.7945)^n =$	0.8414	= 538 MCF/D
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REMARKS: New well 1st Del. June 2, 1969

SUMMARY

Item h	411	Psia
P_c	1785	Psia
Q	639	MCF/D
P_w	424	Psia
P_d	893	Psia
D	538	MCF/D

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

