

Int.
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 1969

Form C122-A
Revised 1-1-68

POOL NAME Aztec	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY San Juan
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73-328

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER Lackey B No. 19		
UNIT LETTER F	SECTION 20	TOWNSHIP 28	RANGE 9	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 2149	TUBING O.D. - INCHES 0.000	TUBING I.D. - INCHES 0.000	TOP - TUBING PERF. - FEET 0
GAS PAY ZONE FROM 2036 TO 2072		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY 0.655	GRAVITY X LENGTH 1334
DATE OF FLOW TEST FROM 4/25/69 TO 5/03/69			DATE SHUT-IN PRESSURE MEASURED 5/23/68		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 211	(b) Flowing Tubing Pressure (DWt) 211	(c) Flowing Meter Pressure (DWt) 362	(d) Flow Chart Static Reading 0	(e) Meter Error (Item c - Item d) 362	(f) Friction Loss (a-c) or (b-c) 290	(g) Average Meter Pressure (Integr.) 211
(h) Corrected Meter Pressure (g+e) 211	(i) Avg. Wellhead Press. $P_f = (h+f)$ 211	(j) Shut-in Casing Pressure (DWt) 362	(k) Shut-in Tubing Pressure (DWt) 0	(l) P_w = higher value of (j) or (k) 362	(m) Del. Pressure $P_d = \frac{80}{290} \% P_c$ 290	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 189	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 189 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.092	$(F_c Q_m)^2 (1000)$ 1,100	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 101	P_i^2 44521	$P_w^2 = P_i^2 + R^2$ Use P_i^2 211	$P_w = \sqrt{P_w^2}$ 211
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	189	$\left[\frac{4694}{86523} \right]^n$	$= (0.5425)^n$	0.5945	112 MCF/D
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REMARKS: Installed Stop Cock 3-17-69

SUMMARY

Item h **211** Psia
 P_c **362** Psia
 Q **189** MCF/D
 P_w **211** Psia
 P_d **290** Psia
 D **112** MCF/D

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



