

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Otero	POOL SLOPE n = .75	FORMATION Chacra	COUNTY Rio Arriba
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COMPANY El Paso Natural Gas Company			WELL NAME AND NUMBER Klein A No. 3		
UNIT LETTER B	SECTION 31	TOWNSHIP 26	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3329	TUBING O.D. - INCHES No Tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3188 TO 3294		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .728	GRAVITY X LENGTH 2321
DATE OF FLOW TEST FROM 11-11-69 TO 11-19-69			DATE SHUT-IN PRESSURE MEASURED 8-8-69		

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.)
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(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellhead Press. $P_t = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d = \frac{80}{659} \% P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
442	442	824	---	824	659	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
319	1.0000	1.0000	Q = 319 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
.155	3136	486	195364	195850	443

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 319 \left[\frac{244695}{483126} \right]^n = (.5064)^n = .6003 = 191 \text{ MCF/D}$$

REMARKS: New Well 1st Del. Sept. 19, 1969.

SUMMARY

Item h 442 Psia
 P_c 824 Psia
 Q 319 MCF/D
 P_w 443 Psia
 P_d 659 Psia
 D 191 MCF/D

Company El Paso Natural Gas Company
 By B. E. Stauffer
 Title _____
 Witnessed By _____
 Company _____

