

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME Otero	POOL SLOPE n = .75	FORMATION Chacra	COUNTY RA
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87-114

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER Klein No. 14		
UNIT LETTER 0	SECTION 35	TOWNSHIP 26	RANGE 6	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 2.875	CASING I.D. - INCHES 2.441	SET AT DEPTH - FEET 3598	TUBING O.D. - INCHES No tubing	TUBING I.D. - INCHES	TOP - TUBING PERF. - FEET
GAS PAY ZONE FROM 3420 TO 3526		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY .654	GRAVITY X LENGTH 2237 ✓
DATE OF FLOW TEST FROM 3-4-70 TO 3-12-70			DATE SHUT-IN PRESSURE MEASURED 11-25-69		

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) - 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 160
(h) Corrected Meter Pressure (g+f) 160 ✓	(i) Avg. Wellhead Press. $P_t = (h+f)$ 160 ✓	(j) Shut-in Casing Pressure (DWt) 842	(k) Shut-in Tubing Pressure (DWt) --	(l) P_c = higher value of (i) or (k) 842 ✓	(m) Del. Pressure $P_d = \frac{80}{674} \% P_c$ 674 ✓	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 320	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = \frac{320}{1.0000}$ ✓ 320 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.150 ✓	$(F_c Q_m)^2 (1000)$ 3155 ✓	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 473 ✓	P_t^2 25600 ✓	$P_w^2 = P_t^2 + R^2$ 26073 ✓	$P_w = \sqrt{P_w^2}$ 161 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{320}{\left(\frac{254688}{682891} \right)^n} = \left(\frac{.3730}{.4773} \right)^n = 153 \text{ MCF/D}$
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REMARKS:

New well, 1st del. 12-12-69

SUMMARY

Item h	160	Psia
P_c	842	Psia
Q	320	MCF/D
P_w	161	Psia
P_d	674	Psia
D	153	MCF/D

Company	El Paso Natural Gas Co.
By	<i>H. E. McAnally</i>
Title	
Witnessed By	
Company	



