

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE $\pi = .75$	FORMATION DK	COUNTY RA
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87-100

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER San Juan 28-7 Unit No. 147		
UNIT LETTER H	SECTION 9	TOWNSHIP 27	RANGE 7	PURCHASING PIPELINE EPNG	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7909	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7792
GAS PAY ZONE FROM 7664 TO 7812		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .678	GRAVITY X LENGTH 5283
DATE OF FLOW TEST FROM 12-27-69 TO 1-4-70			DATE SHUT-IN PRESSURE MEASURED 10-14-69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 456	(b) Flowing Tubing Pressure (DWt) 456	(c) Flowing Meter Pressure (DWt) 1672	(d) Flow Chart Static Reading 2455	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 456
(h) Corrected Meter Pressure (g+e) 456	(i) Avg. Wellhead Press. $P_i = (h+f)$ 456	(j) Shut-in Casing Pressure (DWt) 1672	(k) Shut-in Tubing Pressure (DWt) 2455	(l) P_c = higher value of (i) or (k) 2455	(m) Del. Pressure $P_d = 50\% P_c$ 1228	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 431	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = 431$ MCF/D
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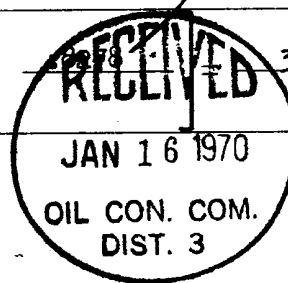
WORKING PRESSURE CALCULATION

$(1-e^{-s})$.319	$(F_c Q_m)^2 (1000)$ 16421	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 5238	P_i^2 207936	$P_w^2 = P_i^2 + R^2$ 213174	$P_w = \sqrt{P_w^2}$ 462
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 431	$\left(\frac{4519041}{5813851} \right)^n =$.7772	$=$ 357 MCF/D
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REMARKS: **New well, 1st del. 11-14-69**



SUMMARY

Item h **456** Psia
 P_c **2455** Psia
 Q **431** MCF/D
 P_w **462** Psia
 P_d **1228** Psia
 D **357** MCF/D

g/c

Company **El Paso Natural Gas Co.**
 By *H. E. [Signature]*
 Title _____
 Witnessed By _____
 Company _____

