

Deliverable

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION Dakota	COUNTY Rio Arriba
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86-595

COMPANY El Paso Natural Gas			WELL NAME AND NUMBER San Juan 28-4 Unit No. 33		
UNIT LETTER M	SECTION 33	TOWNSHIP 28	RANGE 4	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8697	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 8638
GAS PAY ZONE FROM 8546 TO 8670		WELL PRODUCING THRU CASING TUBING xx		GAS GRAVITY .638	GRAVITY X LENGTH 5511
DATE OF FLOW TEST FROM 5-6-69 TO 5-14-69			DATE SHUT-IN PRESSURE MEASURED 12-30-68		

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	430
(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) $P_t =$ higher value of (i) or (k)	(m) Del. Pressure $P_d = 50$ % P_c 1342	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
430	430	2684	2684	2684		

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
707	1.0000	1.0000	Q = 707 MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.330	$(F_c Q_m)^2 (1000)$ 44185	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 14581	P_t^2 184900	$P_w^2 = P_t^2 + R^2$ 199481	$P_w = \sqrt{P_w^2}$ 447
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	707	$\left[\frac{5402892}{7004375} \right]^n =$	$.7713^n =$	$.8229$	$=$	582 MCF/D
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REMARKS:

New well first delivered 4-9-69

SUMMARY

Item h 430 Psia
 P_c 2684 Psia
 Q 707 MCF/D
 P_w 447 Psia
 P_d 1342 Psia
 D 582 MCF/D

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

