

Deliverable

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 1969

Form C122-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE $n = .75$	FORMATION Dakota	COUNTY Rio Arriba
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COMPANY El Paso Natural Gas			WELL NAME AND NUMBER San Juan 28-5 Unit No. 73		
UNIT LETTER G	SECTION 35	TOWNSHIP 28	RANGE 5	PURCHASING PIPELINE El Paso Natural Gas	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8010	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7694
GAS PAY ZONE FROM 7706 TO 7914		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .611	GRAVITY X LENGTH 4701
DATE OF FLOW TEST FROM 4-20-69 TO 4-28-69			DATE SHUT-IN PRESSURE MEASURED 5-10-68		

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	463
(h) Corrected Meter Pressure (g+c)	(i) Avg. Wellhead Press. $P_i = (h+f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (i) or (k)	(m) Del. Pressure $P_d = \frac{50}{808} P_c$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
463	463	1616	1603	1616		

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
378	1.0000	1.0000	$Q = 378$ MCF/D

WORKING PRESSURE CALCULATION

$(1-e^{-5})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$	P_i^2	$P_w^2 = P_i^2 + R^2$	$P_w = \sqrt{P_w^2}$
.290	12630	3663	214369	218032	4.67

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	378	$\left[\frac{1958592}{2393424} \right]^n =$	$(0.8183)^n =$	0.8603	$= 325$ MCF/D
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REMARKS:

Installed Intermittent 4-2-69

SUMMARY

Item h	463	Psia
P_c	1616	Psia
Q	378	MCF/D
P_w	4.67	Psia
P_d	808	Psia
D	325	MCF/D

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

