

Deliver

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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86-538

COMPANY El Paso Natural Gas Co.			WELL NAME AND NUMBER San Juan 29-6 Unit No. 89		
UNIT LETTER M	SECTION 11	TOWNSHIP 29	RANGE 6	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7937	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7862
GAS PAY ZONE FROM 7806 TO 7912		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.592	GRAVITY X LENGTH 4654
DATE OF FLOW TEST FROM 4-16-69 TO 4-24-69			DATE SHUT-IN PRESSURE MEASURED 9-27-68		

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.)
						443
(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 $P_d = 50$ $P_c = 377$	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
443	443	725	753	753		

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 240	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 240 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.287	$(F_c Q_m)^2 (1000)$ 5,090	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 1461	P_t^2 196249	$P_w^2 = P_t^2 + R^2$ 197710	$P_w = \sqrt{P_w^2}$ 445
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	240	$\left[\frac{424880}{369299} \right]^n =$	$1.1505^n =$	1.1108	$= 267$ MCF/D
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REMARKS: Installed Stop Cock 3-25-69

SUMMARY

Item h 443 Psia
P_c 753 Psia
Q 240 MCF/D
P_w 445 Psia
P_d 377 Psia
D 267 MCF/D

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

