

Int.
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 1972

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 COMPANY			WELL NAME AND NUMBER 87-331 San Juan 28-7 Unit No. 156		
UNIT LETTER B	SECTION 10	TOWNSHIP 27	RANGE 7	PURCHASING PIPELINE El Paso Natural Gas Co.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7729	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7643
GAS PAY ZONE FROM 7436 TO 7642		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .661	GRAVITY X LENGTH 5098
DATE OF FLOW TEST FROM 1-18-72 TO 1-26-72			DATE SHUT-IN PRESSURE MEASURED 10-21-71		

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.) 279
(h) Corrected Meter Pressure (g+e) 279	(i) Avg. Wellhead Press. $P_t = (h+f)$ 279	(j) Shut-in Casing Pressure (DWt) 2527	(k) Shut-in Tubing Pressure (DWt) 2564	(l) P_c = higher value of (j) or (k) 2564	(m) Del. Pressure $P_d = \frac{P_c - P_t}{P_c} \times 100\%$ 1282	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 996	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 996 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$ 0.310	$(F_c Q_m)^2 (1000)$ 87692	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 27184	P_t^2 77841	$P_w^2 = P_t^2 + R^2$ 105025	$P_w = \sqrt{P_w^2}$ 324
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	996	$\left[\frac{4930572}{6469071} \right]^n =$	$\left[0.7622 \right]^n =$	0.8158	$=$	813 MCF/D
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REMARKS:

New Well 1st Del. 12-12-71

SUMMARY

Item h 279 Psia
P_c 2564 Psia
Q 996 MCF/D
P_w 324 Psia
P_d 1282 Psia
D 813 MCF/D

Company EL PASO NATURAL GAS COMPANY

By H. E. McAnally

Title

Witnessed By

Company

