

Initial
deliverability 72

NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 72

Form C122-A
Revised 1-1-68

POOL NAME So. Blanco	POOL SLOPE n = .85	FORMATION Pictured Cliffs	COUNTY Rio Arriba
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75-096

COMPANY Atom, Inc.			WELL NAME AND NUMBER BARI FEDERAL NO. 2		
UNIT LETTER A	SECTION 3	TOWNSHIP 23	RANGE 1	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.000	CASING I.D. - INCHES 3.548	SET AT DEPTH - FEET 2751	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 2701
GAS PAY ZONE FROM 2730 TO 2750		WELL PRODUCING THRU CASING XX TUBING		GAS GRAVITY 0.637	GRAVITY X LENGTH 1721
DATE OF FLOW TEST FROM 6-15-72 TO 6-23-72			DATE SHUT-IN PRESSURE MEASURED 5-23-72		

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.) 120
(h) Corrected Meter Pressure (g+e) 120	(i) Avg. Wellhead Press. $P_w = (h + f)$ 120	(j) Shut-in Casing Pressure (DWt) 165	(k) Shut-in Tubing Pressure (DWt) 165	(l) P_c = higher value of (j) or (k) 165	(m) Del. Pressure $P_d = \frac{80}{132} P_c$ 132	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 16	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume 0 = 16 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ Friction Negligible	$(F_c Q_m)^2 (1000)$	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$ Use P_t^2	$P_w = \sqrt{P_w^2}$ 120
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 16$	$\left[\frac{9801}{12825} \right]^n = 0.7642$	0.7957	13 MCF/D
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REMARKS: First Delivered: 5-27-72

SUMMARY

Item h	120	P_{t1}	Company	Atom, Inc.
P_c	165	P_{t2}	By	W. J. Pender
Q	16	MCF/D	Title	
P_w	120	P_{s1}	Witnessed By	
P_d	132	P_{s2}	Company	
D	13	MCF/D		

