

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1972

Form CD22-A
Revised 1-1-68

POOL NAME Basin	POOL SLOPE n = .75	FORMATION DK	COUNTY Rio Arriba
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87-329

COMPANY EL PASO NATURAL GAS COMPANY			WELL NAME AND NUMBER San Juan 28-7 Unit No.153		
UNIT LETTER A	SECTION 20	TOWNSHIP 27	RANGE 7	PURCHASING PIPELINE El Paso Natural Gas Company	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7535	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7450
GAS PAY ZONE FROM 7292 TO 7462		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY .710	GRAVITY X LENGTH 5290
DATE OF FLOW TEST FROM 1-10-72 TO 1-18-72			DATE SHUT-IN PRESSURE MEASURED 10-12-71		

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.) 434
(h) Corrected Meter Pressure (g-e) 434	(i) Avg. Wellhead Press. $P_i = (h + f)$ 434	(j) Shut-in Casing Pressure (DWt) 2304	(k) Shut-in Tubing Pressure (DWt) 2191	(l) P_c - higher value of (j) or (k) 2304	(m) Del. Pressure $P_d = 50\% P_c$ 1152	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 45	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q = 45$ 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	$P_w = \sqrt{P_w^2}$ 434
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 45$	$\left[\frac{3981312}{5120060} \right]^n = \left[\frac{0.7776}{0.7292} \right]^n = \frac{8280}{0.7891} = \frac{37}{36}$ MCF/D
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REMARKS:

New Well 1st Delivered 12-9-71

SUMMARY

Item h 434 Psia
P_c 2304 Psia
Q 45 MCF/D
P_w 434 Psia
P_d 1152 Psia
D 37 MCF/D

EL PASO NATURAL GAS COMPANY
Witnessed By *H. E. M. S. Anally*
JAN 28 1972
OIL CON. COM.
DIST. 3

OK