

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 85

RPT, #A6I
PAGE 13

Form C122-A
Revised 8-77

POOL NAME BLANCO	POOL SLOPE = .75	FORMATION MESAVERDE	COUNTY RA
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73-058

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER SJ 2E-5 UNIT #48		
UNIT LETTER M	SECTION 22	TOWNSHIP 28	RANGE 5	PURCHASING PIPELINE EL PASO NATURAL GAS CO	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.050	SET AT DEPTH - FEET 6015	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP TUBING PERF. - FEET 5894
GAS PAY ZONE FROM 5792 TO 5954		WELL PRODUCING THRU CASING X TUBING		GAS GRAVITY 0.698	GRAVITY X LENGTH 4043
DATE OF FLOW TEST FROM 12/19/85 TO 12/27/85			DATE SHUT-IN PRESSURE MEASURED 01/03/86		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWI) 367	(b) Flowing Tubing Pressure (DWI) 0	(c) Flowing Meter Pressure (DWI) 337	(d) Flow Chart Static Reading 342	(e) Meter Error (Item c - Item d) -5	(f) Friction Loss (a-c) or (b-c) 30	(g) Average Meter Pressure (Integr.) 336
(h) Corrected Meter Pressure (g+e) 331	(i) Avg. Wellhead Press. $P_t = (h+f)$ 361	(j) Shut-in Casing Pressure (DWI) 467	(k) Shut-in Tubing Pressure (DWI) 0	(l) $P_c =$ higher value of (j) or (k) 467	(m) Del. Pressure $P_d =$ 80 % P_c 374	(n) Separator or Dehydrator Pr. (DWI) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 111	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 0.9854	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 0.9927	Corrected Volume Q = 110 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-S})$.255	$(F_c Q_m)^2 (1000)$ 68	$R^2 = (1-e^{-S}) (F_c Q_m)^2 (1000)$ 17	P_t^2 130321	$P_w^2 = P_t^2 + R^2$ USE P12	$P_w = \sqrt{P_w^2}$ 361
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 110	$\left(\frac{78213}{87768} \right)^n =$ 0.8911	$=$ 0.9172	$=$ 101 MCF/D
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REMARKS:

SUMMARY

Item h 331 Psia
 P_c 467 Psia
 Q 110 MCF/D
 P_w 361 Psia
 P_d 374 Psia
 D 101 MCF/D

Company EL PASO NATURAL GAS CO
 By John J. Tiller
 Title _____
 Witnessed By _____
 Company _____

RECEIVED
 JAN 24 1986
 OIL CON. DIV.
 DIST. 3