

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 69Form CT22-A
Revised 1-1-68

POOL NAME BASIN	POOL SLOPE $n = .75$	FORMATION DAKOTA	COUNTY RA
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87-052

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER SJ 27-5 UNIT #116		
UNIT LETTER A	SECTION 24	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.600	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7945	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7787
GAS PAY ZONE FROM 7618 TO 7822		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.678	GRAVITY X LENGTH 5280
DATE OF FLOW TEST FROM 09/19/69 TO 09/27/69			DATE SHUT-IN PRESSURE MEASURED 07/01/69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 0	(b) Flowing Tubing Pressure (DWt) 0	(c) Flowing Meter Pressure (DWt) 0	(d) Flow Chart Static Reading 0	(e) Meter Error (Item c - Item d) 0	(f) Friction Loss (a-c) or (b-c) 0	(g) Average Meter Pressure (Integr.) 443
(h) Corrected Meter Pressure (g+e) 443	(i) Avg. Wellhead Press. $P_i = (h+f)$ 443	(j) Shut-in Casing Pressure (DWt) 2515	(k) Shut-in Tubing Pressure (DWt) 2334	(l) P_c = higher value of (i) or (k) 2515	(m) Del. Pressure $P_d = 50$ % P_c 1258	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 505	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume $Q =$ 505 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-5})$.319	$(F_c Q_m)^2 (1000)$ 69,106	$R^2 = (1-e^{-5}) (F_c Q_m)^2 (1000)$ 22045	P_t^2 196249	$P_w^2 = P_t^2 + R^2$ 218294	$P_w = \sqrt{P_w^2}$ 467
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 505	$\left[\frac{4742661}{6106931} \right]^n =$ 0.7766	$=$ 0.8273	$=$ 418 MCF/D
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REMARKS:

New Well 1st Delivery Aug. 22, 1969.

SUMMARY

Item h **443** Psia
P_c **2515** Psia
Q **505** MCF/D
P_w **467** Psia
P_d **1258** Psia
D **418** MCF/D

Company **EL PASO NATURAL GAS CO**
By **R. R. Stauffer**
Title
Witnessed By
Company

