

NEW MEXICO OIL CONSERVATION COMMISSION

WELL DELIVERABILITY TEST REPORT FOR 19 69

Form C122-A
Revised 1-1-68

POOL NAME BASEN	POOL SLOPE n = .75	FORMATION DAKOTA	COUNTY RA
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86-610

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER SJ 27-5 UNIT #113		
UNIT LETTER A	SECTION 10	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.000	SET AT DEPTH - FEET 8642	TUBING O.D. - INCHES 1.660	TUBING I.D. - INCHES 1.380	TOP - TUBING PERF. - FEET 8551
GAS PAY ZONE FROM 8348 TO 8585		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.678	GRAVITY X LENGTH 5798
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.) 463
(h) Corrected Meter Pressure (g+e) 463	(i) Avg. Wellhead Press. $P_f = (h+f)$ 463	(j) Shut-in Casing Pressure (DWt) 2516	(k) Shut-in Tubing Pressure (DWt) 2519	(l) P_{sh} higher value of (j) or (k) 2519	(m) Del. Pressure $P_d = \frac{50}{1260} P_c$ 1260	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 700	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 700 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.344	$(F_c Q_m)^2 (1000)$ 297,045	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 102183	P_i^2 214359	$P_w^2 = P_i^2 + R^2$ 316552	$P_w = \sqrt{P_w^2}$ 563
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$	700	$\left[\frac{4757461}{6828889} \right]^n =$	$(.67891)^n =$	0.8372	$=$	586 MCF/D
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REMARKS: **New Well 1st Delivery Aug. 21, 1969.**

SUMMARY

Item h **463** Psia
 P_c **2519** Psia
 Q **700** MCF/D
 P_w **563** Psia
 P_d **1260** Psia
 D **586** MCF/D

Company **EL PASO NATURAL GAS CO**
 By **[Signature]**
 Title
 Witnessed By
 Company

