

Initial
Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 1969

Form C122-A
Revised 1-1-68

POOL NAME BASIN	POOL SLOPE .75 n =	FORMATION DAKOTA	COUNTY RA
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86-609

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER SJ 27-5 UNIT #111		
UNIT LETTER L	SECTION 2	TOWNSHIP 27	RANGE 5	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 8004	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7357
GAS PAY ZONE FROM 1730 TO 1924		PRODUCING TIME 8004		GAS GRAVITY 0.678	GRAVITY X LENGTH 5259
DATE OF FLOW TEST 09/03/69			DATE SHUT-IN PRESSURE MEASURED 07/02/69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 436	(b) Flowing Tubing Pressure (DWt) 436	(c) Flowing Meter Pressure (DWt) 2601	(d) Flow Chart Static Reading 2634	(e) Meter Error (Item c - Item d) 2634	(f) Friction Loss (a-c) or (b-c) 1317	(g) Average Meter Pressure (Integr.) 436
(h) Corrected Meter Pressure (g+e) 436	(i) Avg. Wellhead Press. $P_i = (h+f)$ 436	(j) Shut-in Casing Pressure (DWt) 2601	(k) Shut-in Tubing Pressure (DWt) 2634	(l) P_c = higher value of (j) or (k) 2634	(m) Del. Pressure $P_d = 50\% P_c$ 1317	(n) Separator or Dehydrator Pr. (DWt) for critical flow only 436

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 463	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 463 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$ 1318	$(F_c Q_m)^2 (1000)$ 18,949	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 6026	P_i^2 190096	$P_w^2 = P_i^2 + R^2$ 196122	$P_w = \sqrt{P_w^2}$ 443
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 463	$\left(\frac{5203467}{6741834} \right)^n =$ 0.7718	$=$ 0.8234	$=$ 381 MCF/D
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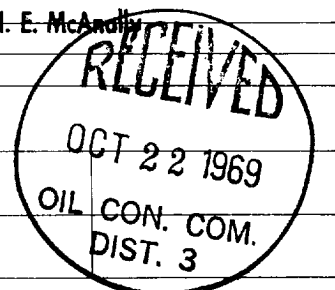
REMARKS:

New Well 1st Del. Aug. 4, 1969

SUMMARY

Item h **436** Psia
P_c **2634** Psia
Q **463** MCF/D
P_w **443** Psia
P_d **1317** Psia
D **381** MCF/D

Company **EL PASO NATURAL GAS CO**
By
Title **Original Signed H. E. McAnally**
Witnessed By
Company



10-11-68
DIST. 3
OIL COM. COM.
OCT 28 1968