

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 68Form C122-A
Revised 1-1-68

POOL NAME BASIN	POOL SLOPE n = .75	FORMATION DAKOTA	COUNTY RA
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75-726

COMPANY EL PASO NATURAL GAS CO			WELL NAME AND NUMBER S J 28-7 UNIT #145		
UNIT LETTER N	SECTION 10	TOWNSHIP 27	RANGE 7	PURCHASING PIPELINE EL PASO NATURAL GAS CO.	
CASING O.D. - INCHES 4.500	CASING I.D. - INCHES 4.052	SET AT DEPTH - FEET 7680	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7416
GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY 0.682	GRAVITY X LENGTH 5058 ✓
FROM 7446	TO 7624	CASING	TUBING X		
DATE OF FLOW TEST FROM 01/30/68 TO 02/07/68			DATE SHUT-IN PRESSURE MEASURED 11/08/67		

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.) 505
(h) Corrected Meter Pressure (g+e) 505	(i) Avg. Wellhead Press. $P_i = (h+f)$ 505	(j) Shut-in Casing Pressure (DWt) 2257	(k) Shut-in Tubing Pressure (DWt) 2505	(l) P_c = higher value of (j) or (k) 2505	(m) Del. Pressure $P_d = 50\% P_c$ 1253	(n) Separator or Dehydrator Pr. (DWt) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 998	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000	Corrected Volume Q = 998 MCF/D
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WORKING PRESSURE CALCULATION

$(1-e^{-s})$.308 ✓	$(F_c Q_m)^2 (1000)$ 88,041 ✓	$R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 27117 ✓	P_t^2 255025 ✓	$P_w^2 = P_t^2 + R^2$ 282142 ✓	$P_w = \sqrt{P_w^2}$ 531 ✓
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 998 ✓	$\left[\frac{4705016}{5992883} \right]^n =$ 0.7851 ✓	$\left[\frac{0.7851}{0.8341} \right]^n =$ 0.8341 ✓	832 MCF/D
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REMARKS:

New Well First Delivered 1-16-68.

SUMMARY

Item h 505 ✓ Psia
 P_c 2505 ✓ Psia
 Q 998 ✓ MCF/D
 P_w 531 ✓ Psia
 P_d 1253 ✓ Psia
 D 832 ✓ MCF/D

Company EL PASO NATURAL GAS COBy J.B. Grant

Title

Witnessed By

Company

