

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 75

Form C122-A
 Revised 1-1-66

POOL NAME Blanco	POOL SLOPE $n = 0.75$	FORMATION Mesaverde	COUNTY San Juan
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COMPANY Southern Union Production Company			WELL NAME AND NUMBER Nordhaus No. 3-A		
UNIT LETTER I	SECTION 11	TOWNSHIP 31 N	RANGE 9 W	PURCHASING PIPELINE Southern Union Gathering Co.	
CASING O.D. - INCHES 7.000 4.500	CASING I.D. - INCHES 6.366 4.052	SET AT DEPTH - FEET 3139 2996 - 5515	TUBING O.D. - INCHES 2.0625	TUBING I.D. - INCHES 1.750	TOP - TUBING PERF. - FEET 5253
GAS PAY ZONE FROM 4907 TO 5470		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY 0.662	GRAVITY X LENGTH 3477
DATE OF FLOW TEST FROM 12/2/75 TO 12/10/75			DATE SHUT-IN PRESSURE MEASURED 9/15/75		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) 526	(b) Flowing Tubing Pressure (DWt) 311	(c) Flowing Meter Pressure (DWt) 311	(d) Flow Chart Static Reading 314	(e) Meter Error (Item c - Item d) - 3	(f) Friction Loss (a - c) or (b - c) -0-	(g) Average Meter Pressure (Integr.) 314
(h) Corrected Meter Pressure (g + e) 311	(i) Avg. Wellhead Press. $P_t = (h + f)$ 311	(j) Shut-in Casing Pressure (DWt) 586	(k) Shut-in Tubing Pressure (DWt) 586	(l) $P_c =$ higher value of (j) or (k) 586	(m) Del. Pressure $P_d = \frac{80}{\%P_c}$ 469	(n) Separator or Dehydrator Pr. (DWt) for critical flow only ---

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 63	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 0.9904	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 0.9952	Corrected Volume Q = 63 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ F.L.N.	P_t^2 96,721	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$ Pt. 311
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DELIVERABILITY CALCULATION

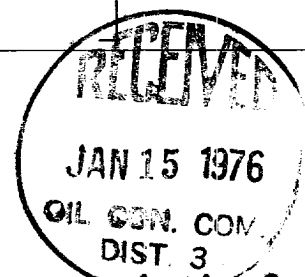
$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 63	$\left[\frac{123,435}{246,675} \right]^n =$ 0.5004	$=$ 0.5950	$=$ 37 MCF/D
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REMARKS:

SUMMARY

Item h **311** Psia
 P_c **586** Psia
 Q **63** MCF/D
 P_w **311** Psia
 P_d **469** Psia
 D **37** MCF/D

Southern Union Production Company
 Company **Kenneth E. Roddy** Original signed by
 By **Production Technician** Kenneth E. Roddy
 Title
 Witnessed By
 Company



OK