

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 70

Form C122-A
 Revised 1-1-66

POOL NAME BASIN	POOL SLOPE n = 0.75	FORMATION DAKOTA	COUNTY RIO ARriba
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COMPANY SOUTHERN UNION PRODUCTION COMPANY			WELL NAME AND NUMBER JICARILLA #GN No. 5		
UNIT LETTER L	SECTION 12	TOWNSHIP 26 N	RANGE 5 W	PURCHASING PIPELINE SOUTHERN UNION GAS COMPANY	
CASING O.D. - INCHES 7.625 5.500	CASING I.D. - INCHES 6.969 4.950	SET AT DEPTH - FEET 4240 4080-8421	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 8303
GAS PAY ZONE FROM 8308 TO 8400		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY 0.670	GRAVITY X LENGTH 5563
DATE OF FLOW TEST FROM 12/17/69 TO 12/25/69			DATE SHUT-IN PRESSURE MEASURED 8/26/69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) —	(b) Flowing Tubing Pressure (DWt) 618	(c) Flowing Meter Pressure (DWt) 499	(d) Flow Chart Static Reading 476	(e) Meter Error (Item c - Item d) + 23	(f) Friction Loss (a - c) or (b - c) + 119	(g) Average Meter Pressure (Integr.) 504
(h) Corrected Meter Pressure (g + e) 527	(i) Avg. Wellhead Press. $P_t = (h + f)$ 646	(j) Shut-in Casing Pressure (DWt) —	(k) Shut-in Tubing Pressure (DWt) 2604	(l) $P_c =$ higher value of (j) or (k) 2604	(m) Del. Pressure $P_d =$ 50 % P_c 1302	(n) Separator or Dehydrator Pr. (DWt) for critical flow only —

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 990	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0483	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0242	Corrected Volume Q = 1014 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 0.333	$(F_c Q_m)^2 (1000)$ 278,571	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 92,764	P_t^2 417,316	$P_w^2 = P_t^2 + R^2$ 510,080	$P_w = \sqrt{P_w^2}$ 714
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1014	$\left[\frac{5,085,612}{6,270,736} \right]^n =$ 0.8110	$=$ 0.8546	$=$ 867 MCF/D
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REMARKS:

SHUT IN PRESSURE WAS TAKEN FROM I.P. TEST

SUMMARY

Item h **527** Psia
 P_c **2604** Psia
 Q **1014** MCF/D
 P_w **714** Psia
 P_d **1302** Psia
 D **867** MCF/D

OK



Company **SOUTHERN UNION PRODUCTION COMPANY**

By **KENNETH E. BODDY**

Title **PRODUCTION TECHNICIAN**

Witnessed By _____

Company _____

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AT 2000

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