

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 1970

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 #G# No. 7		
UNIT LETTER G	SECTION 11	TOWNSHIP 26 N	RANGE 5 W	PURCHASING PIPELINE SOUTHERN UNION GAS COMPANY	
CASING O.D. - INCHES 7.5625	CASING I.D. - INCHES 6.966	SET AT DEPTH - FEET 4225	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 8591
GAS PAY ZONE FROM 8612 TO 8728		WELL PRODUCING THRU CASING XX TUBING XX		GAS GRAVITY 0.670	GRAVITY X LENGTH 5756
DATE OF FLOW TEST FROM 4/2/70 TO 4/10/70			DATE SHUT-IN PRESSURE MEASURED 12/19/69		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt) ---	(b) Flowing Tubing Pressure (DWt) 579	(c) Flowing Meter Pressure (DWt) 529	(d) Flow Chart Static Reading 533	(e) Meter Error (Item c - Item d) - 4	(f) Friction Loss (a - c) or (b - c) + 50	(g) Average Meter Pressure (Integr.) 490
(h) Corrected Meter Pressure (g + e) 486	(i) Avg. Wellhead Press. $P_t = (h + f)$ 536	(j) Shut-in Casing Pressure (DWt) ---	(k) Shut-in Tubing Pressure (DWt) 2110	(l) P_c = higher value of (j) or (k) 2110	(m) Del. Pressure $P_d = \frac{50}{1055} P_c$ 1055	(n) Separator or Dehydrator Pr. (DWt) for critical flow only ---

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 637	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 0.9925	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 0.9963	Corrected Volume Q = 635 MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-s})$ 0.342	$(F_c Q_m)^2 (1000)$ 109,246	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ 37,362	P_t^2 287,296	$P_w^2 = P_t^2 + R^2$ 324,658	$P_w = \sqrt{P_w^2}$ 570
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 635	$\left[\frac{3,339,075}{4,127,442} \right]^n =$ 0.8090	$=$ 0.8530	$=$ 542 MCF/D
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REMARKS:

SHUT-IN PRESSURE TAKEN FROM IP TEST DATED 12/19/69

SUMMARY

Item h	486	Psia
P_c	2110	Psia
Q	635	MCF/D
P_w	570	Psia
P_d	1055	Psia
D	542	MCF/D

Company **SOUTHERN UNION PRODUCTION COMPANY**
 By **KENNETH E. RODDY**
 Title **PRODUCTION TECHNICIAN**
 Witnessed By _____
 Company _____



