

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 72

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 "K" No. 14		
UNIT LETTER 0	SECTION 11	TOWNSHIP 25 N	RANGE 5 W	PURCHASING PIPELINE Southern Union Gas Company	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 4.950	SET AT DEPTH - FEET 7530	TUBING O.D. - INCHES 1.900	TUBING I.D. - INCHES 1.610	TOP - TUBING PERF. - FEET 7322
GAS PAY ZONE FROM 7262 TO 7462		WELL PRODUCING THRU CASING TUBING XX		GAS GRAVITY 0.670	GRAVITY X LENGTH 4906
DATE OF FLOW TEST FROM 3/18/72 TO 3/25/72			DATE SHUT-IN PRESSURE MEASURED 9/29/71		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.)
---	333	327	325	+ 2	+ 6	325
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_t = (h + f)$	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure $P_d =$ <u>50</u> % P_c	(n) Separator or Dehydrator Pr. (DWt) for critical flow only
327	333	---	2089	2089	1045	---

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
245	1.0062	1.0031	Q = 246 MCF/D

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
0.300	16,396	4919	110,889	115,808	340

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 246	$\left[\frac{3,271,896}{4,248,113} \right]^n =$ 0.7702	$=$ 0.8222	$=$ 202 MCF/D
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REMARKS:



SUMMARY

Item h	327	Psia
P_c	2089	Psia
Q	246	MCF/D
P_w	340	Psia
P_d	1045	Psia
D	202	MCF/D

Company Southern Union Production Company
 By Kenneth E. Roddy
 Title Production Technician
 Witnessed By _____
 Company _____