

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**INITIAL WELL DELIVERABILITY TEST REPORT FOR 19 71**

Form C122-A  
 Revised 1-1-66

POOL NAME <b>Becker</b>	POOL SLOPE $\eta = 0.75$	FORMATION <b>DELTA</b>	COUNTY <b>Rio Arriba</b>
----------------------------	-----------------------------	---------------------------	-----------------------------

COMPANY <b>Southern Union Production Company</b>			WELL NAME AND NUMBER <b>JICARIELA #1 No. 1</b>		
UNIT LETTER <b>L</b>	SECTION <b>1</b>	TOWNSHIP <b>24 North</b>	RANGE <b>5 West</b>	PURCHASING PIPELINE <b>Southern Union Gas Company</b>	
CASING O.D. - INCHES <b>7.000</b>	CASING I.D. - INCHES <b>6.456</b>	SET AT DEPTH - FEET <b>7336</b>	TUBING O.D. - INCHES <b>1.900</b>	TUBING I.D. - INCHES <b>1.600</b>	TOP - TUBING PERF. - FEET <b>7664</b>
GAS PAY ZONE FROM <b>7660</b> TO <b>7936</b>		WELL PRODUCING THRU CASING TUBING <b>XI</b>		GAS GRAVITY <b>0.670</b>	GRAVITY X LENGTH <b>5139</b>
DATE OF FLOW TEST FROM <b>1/2/71</b> TO <b>1/10/71</b>			DATE SHUT-IN PRESSURE MEASURED <b>10/30/70</b>		

**PRESSURE DATA - ALL PRESSURES IN PSIA**

(a) Flowing Casing Pressure (DWt) <b>---</b>	(b) Flowing Tubing Pressure (DWt) <b>452</b>	(c) Flowing Meter Pressure (DWt) <b>440</b>	(d) Flow Chart Static Reading <b>442</b>	(e) Meter Error (Item c - Item d) <b>- 2</b>	(f) Friction Loss (a - c) or (b - c) <b>+ 12</b>	(g) Average Meter Pressure (Integr.) <b>423</b>
(h) Corrected Meter Pressure (g + e) <b>421</b>	(i) Avg. Wellhead Press. $P_c = (h + f)$ <b>435</b>	(j) Shut-in Casing Pressure (DWt) <b>---</b>	(k) Shut-in Tubing Pressure (DWt) <b>2494</b>	(l) $P_c =$ higher value of (i) or (k) <b>2494</b>	(m) Del. Pressure $P_d = \frac{40}{100} P_c$ <b>1247</b>	(n) Separator or Dehydrator Pr. (DWt) for critical flow only <b>---</b>

**FLOW RATE CORRECTION (METER ERROR)**

Integrated Volume - MCF/D <b>807</b>	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ <b>0.9955</b>	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ <b>0.9978</b>	Corrected Volume Q = <b>807</b> MCF/D
---	--	---	--

**WORKING PRESSURE CALCULATION**

$(1 - e^{-s})$ <b>0.312</b>	$(F_c Q_m)^2 (1000)$ <b>176,444</b>	$R^2 = (1 - e^{-s}) (F_c Q_m)^2 (1000)$ <b>55,051</b>	$P_t^2$ <b>107,489</b>	$P_w^2 = P_t^2 + R^2$ <b>242,510</b>	$P_w = \sqrt{P_w^2}$ <b>492</b>
--------------------------------	--	--	---------------------------	---	------------------------------------

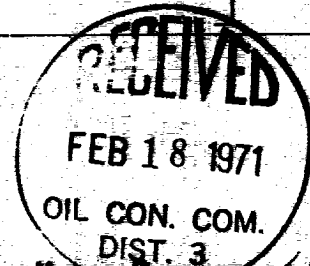
**DELIVERABILITY CALCULATION**

$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ <b>807</b>	$\left( \frac{4,665,027}{5,977,496} \right)^n =$ <b>0.7004</b>	$=$ <b>0.5303</b>	$=$ <b>670</b> MCF/D
---	--	-------------------	----------------------

REMARKS:

**SUMMARY** *OK*

Item h	<b>423</b>	Psia
$P_c$	<b>2494</b>	Psia
Q	<b>807</b>	MCF/D
$P_w$	<b>492</b>	Psia
$P_d$	<b>1247</b>	Psia
D	<b>670</b>	MCF/D



Company **Southern Union Production Company**  
 By **Kenneth E. Hunt** *Kenneth E. Hunt*  
 Title **PROVINCIAL TREASURER**  
 Witnessed By \_\_\_\_\_  
 Company \_\_\_\_\_

Amino Acid		ATOM		D.D		MCA	
Y	Z	Y	Z	Y	Z	Y	Z
ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA
ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG
ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP
ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN
GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU
GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY
ILE	ILE	ILE	ILE	ILE	ILE	ILE	ILE
LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU
LYS	LYS	LYS	LYS	LYS	LYS	LYS	LYS
PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO
SER	SER	SER	SER	SER	SER	SER	SER
THR	THR	THR	THR	THR	THR	THR	THR
TRP	TRP	TRP	TRP	TRP	TRP	TRP	TRP
VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL

Y AND Z ARE THE SAME  
 Y AND Z ARE THE SAME  
 Y AND Z ARE THE SAME

Y AND Z ARE THE SAME  
 Y AND Z ARE THE SAME  
 Y AND Z ARE THE SAME