

15-171-00020-00-01  
**STATE OF KANSAS - CORPORATION COMMISSION**  
**ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM O-2  
8-7-58  
 22  
 5-24-93

**TYPE TEST:**  Deliverability  Open Flow **TEST DATE:** 12-Nov-92

**COMPANY:** Unico, Inc. **LEASE:** Christy **WELL NO.:**

**COUNTY:** Scott **LOCATION:** **SECTION:** 32 **TWP:** 18S **RNG:** 31W **ACRES:** 320

**FIELD:** North Hugoton **RESERVOIR:** Chase (Krieger) **PIPELINE CONNECTION:** K.N. Energy

**COMPLETION DATE:** **PLUG BACK TOTAL DEPTH:** **PACKER SET AT:**

**CASING SIZE:** **WT.:** **I.D.:** **SET AT:** **PERF.:** **TO:**

**TUBING SIZE:** **WT.:** **I.D.:** **SET AT:** **PERF.:** **TO:**

**TYPE COMPLETION (Describe):** **TYPE FLUID PRODUCTION:**

**PRODUCING THRU:** **RESERVOIR TEMPERATURE F:** **BAR. PRESS - P<sub>a</sub>:** 14.4 Psia

**GAS GRAVITY - G<sub>g</sub>:** 0.804 **% CARBON DIOXIDE:** 0.01 **% NITROGEN:** 44.47 **API GRAVITY OF LIQUID:**

**VERTICAL DEPTH (H):** **TYPE METER CONN.:** **(METER RUN)(PROVER) SIZE:**

**SHUT-IN PRESSURE, SHUT IN:** 09-Nov-92 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

**FLOW TEST, STARTED:** 12-Nov-92 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

**OBSERVED DATA**

DURATION OF SHUT-IN 72 HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS		TUBING WELLHEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia		
SHUT-IN									335.7	72	
FLOW									168.8	24	

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>o</sub> )(F <sub>d</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{th}h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>L</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
						52		

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>c</sub>)<sup>2</sup> = 112694 ; (P<sub>w</sub>)<sup>2</sup> = 28493 ; P<sub>d</sub> = N/A % (P<sub>c</sub> - 14.4) + 14.4 = (P<sub>d</sub>)<sup>2</sup> = 0.207

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
112520	84201	1.3363	0.2899258	0.85	0.246436	1.2795	66.5

OPEN FLOW 66.5 Mcfd **DELIVERABILITY** 52 Mcfd @ 14.63 psia

The undersigned authority, on behalf of the Corporation Commission, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that the report is true and correct.

Executed this the 20th day of May, 1993

**RECEIVED**  
**MAY 24 1993**  
 CORPORATION COMMISSION  
 CONSERVATION DIVISION  
 Wichita, Kansas

Unico, Inc.  
For Company

Witness (if any)

For Commission

Checked by