

STATE OF KANSAS - CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-2
8-7-58

D
13
5-24-93

15-171-20048-0000

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

COMPANY Unico, Inc. **LEASE** Dearden 1-20 **WELL NO.**

COUNTY Scott **LOCATION** **SECTION** 20 **TWP** 19S **RNG** 31W **ACRES** 640

FIELD North Hugoton **RESERVOIR** Chase (Krider) **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_a**
14.4 Psia

GAS GRAVITY - G_g **% CARBON DIOXIDE** **% NITROGEN** **API GRAVITY OF LIQUID**
0.800 0.02 49.21

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 _w)(h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS		TUBING WELLHEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT-IN									332.6	72	
FLOW									176.4	24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (C)	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{mahw}}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
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(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 110623 | (P_w)² = 31117 | P_d = N/A % | (P_c - 14.4) + 14.4 = | (P_w)² = 0.207 | (P_d)² =

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ or $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_a^2}{P_c^2 - P_d^2}$ or $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
110449	79506	1.3892	0.3287195	0.85	0.279411	1.3224	55.5

OPEN FLOW 55.5 Mcfd @ 14.65 psia **DELIVERABILITY** 42 Mcfd @ 14.65 psia

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

Executed this the 20th day of May, 1993

Unico, Inc.
For Company

Witness (if any)

For Commission

Checked by