

15-103-20666-00-01
STATE OF KANSAS - CORPORATION COMMISSION
 ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-3
 8-7-58

TYPE TEST: Deliverability Open Flow **TEST DATE:** July 10, 1988

COMPANY: Fairway Petroleum, Inc. **LEASE:** RYAN **WELL NO.:** 2

COUNTY: Leavenworth **LOCATION:** NE **SECTION:** 33 **TWP:** 8S **RNG:** 22E **ACRES:**

FIELD: McLouth **PIPELINE CONNECTION:** LAGGS, Inc.

COMPLETION DATE: 7/2/86 **PLUG BACK TOTAL DEPTH:** 1256 **PACKER SET AT:**

CASINO SIZE: WT. LD. SET AT PERF. TO
 4 1/2" 1256 1196-1204

TUBING SIZE: WT. LD. SET AT PERF. TO

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

PRODUCING THRU: **RESERVOIR TEMPERATURE F:** 76° **BAR. PRESS - P_a:** 14.4 Psia

GAS GRAVITY - G_g: .5826 **% CARBON DIOXIDE:** N.A. **% NITROGEN:** N.A. **API GRAVITY OF LIQUID:**

VERTICAL DEPTH (H): 1256 **TYPE METER CONN.:** Barton **(METER RUN) (PROVER) SIZE:** 2"

SHUT-IN PRESSURE: SHUT IN: July 9 19 88 AT 5 (AM)(PM) TAKEN July 10 19 88 AT 11 (AM)(PM)

FLOW TEST: STARTED: 19 AT 12:15 (AM)(PM) TAKEN July 10 19 88 AT 12:30 (AM)(PM)

RECEIVED
 STATE CORPORATION COMMISSION
 SEP 12 1988
 CONSERVATION DIVISION
 Wichita, Kansas

OBSERVED DATA **DURATION OF SHUT-IN:** 18 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	CASINO 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						172.0	186.4				
FLOW	1.25	92.0	-	76	-	92.0	106.4				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P _m h _w	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
28.34	106.4	-	1.2982	0.9843	1.0076	3893		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ | (P_w)² = _____ | P_d² = _____ % (P_c - 14.4) + 14.4 = _____ | (P_w)² = 0.207 | (P_d)² = _____

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
CALCULATED BY IBM COMPUTER				0.85			5420

OPEN FLOW 5420 **Mcf d @ 14.65 psia** **DELIVERABILITY** **Mcf d @ 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 July 21 day of _____, 1988.

Joseph M. Hurd
 For Company
Larry Culbertson
 Checked by

Witness (if any)

For Completion