

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

FORM O-2
8-7-88

15-103-20898-0000 5-23-89

TYPE TEST: Deliverability Open Flow **TEST DATE:** April 20, 1989

COMPANY: Fairway Petroleum, Inc. **LEASE:** Campbell **WELL NO.:** 1

COUNTY: Leavenworth **LOCATION:** NW NW NE **SECTION:** 12 **TWP:** 10S **RNG:** 22E **ACRES:** 40

FIELD: McLouth **RESERVOIR:** McLouth **PIPELINE CONNECTION:** Fairmont Pipeline System

COMPLETION DATE: 2/6/88 **PLUG BACK TOTAL DEPTH:** 1132 **PACKER SET AT:**

CASING SIZE: WT. LD. SET AT PERF. TO
4 1/2" 1132 1042 1046

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

TYPE COMPLETION (Describe): Perforation **TYPE FLUID PRODUCTION:** None

PRODUCING THRU: 4 1/2" Casing **RESERVOIR TEMPERATURE F:** 73° **BAR. PRESS - P_s:** 14.4 Psia

GAS GRAVITY - G_g: 0.571 **% CARBON DIOXIDE:** 0 **% NITROGEN:** 2.4 **API GRAVITY OF LIQUID:**

VERTICAL DEPTH (ft): 1132 **TYPE WTR. CONN.:** Flange **(METER RUN)(PROVER) SIZE:** 2"

SHUT-IN PRESSURE: SHUT IN April 12, 1989 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)
FLOW TEST: STARTED April 20, 1989 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

OBSERVED DATA

DURATION OF SHUT-IN 24 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 WELL-HEAD PRESS.		TUBING WELL-HEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT-IN						285	299.4			24	
FLOW	1.00	69	17	73	73	217	231.4			24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (F ₁)(F ₂) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √F _m h _w	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	STATE OF KANSAS CORPORATION COMMISSION
5.073	83.4	37.7	1.3234	0.9871	1.027	257	RECEIVED MAY 22 1989 CONSERVATION DIVISION Wichita, Kansas

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 89.6 ; (P_w)² = 53.6 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_d)² = _____

(P _w) ² - (P _d) ² (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
	36.0			0.85			627

OPEN FLOW: 627 Mcfd @ 14.65 psia **DELIVERABILITY:** 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 20 day of April, 1989.

[Signature]
For Company

Witness (if any)

Checked by