

15-103-20628-00-00
STATE OF KANSAS - CORPORATION COMMISSION

FORM O-3
 8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

TYPE TEST: Deliverability Open Flow **TEST DATE:** April 28, 1990

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

COUNTY: Leavenworth **LOCATION:** NW SW NE **SECTION:** 33 **TWP:** 8S **RNG:** 22E **ACRES:** 25

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

COMPLETION DATE: 9/12/86 **PLUG BACK TOTAL DEPTH:** 1441 **PACKER SET AT:**

CASING SIZE: WT. 4 1/2" I.D. 4 1/2" **SET AT:** 1441 **PERF.:** 1374 **TO:** 1379

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

TYPE COMPLETION (Describe): Perforation **TYPE FLUID PRODUCTION:** Water & Oil

PRODUCING THRU: 4 1/2" Casing **RESERVOIR TEMPERATURE F:** 79 **BAR. PRESS - P_a:** 14.4 Psia

GAS GRAVITY - G_g: 0.5738 **% CARBON DIOXIDE:** 0 **% NITROGEN:** 3.1 **API GRAVITY OF LIQUID:**

VERTICAL DEPTH (H): 1441 **TYPE WTKR CONN.:** Flange **(METER RUN)(PROVER) SIZE:** 2"

SHUT-IN PRESSURE: SHUT IN April 22, 1990 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

FLOW TEST: STARTED April 24, 1990 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 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						106	120.4			24	
FLOW	.75	42	15	78.7	78.7	81	95.4			24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _D)(F _W) 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
2.779	56.4	29.1	1.2905	0.9825	1.0076	103.3		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 14.5 ; (P_w)² = 9.1 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_d)² = _____

(P _c) ² - (P _w) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	$\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
	5.4			0.85			271.8

OPEN FLOW 271.8 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 12 day of May, 1990

STATE OF KANSAS

Witness (if any)

MAY 29 1990

CONSERVATION Division
 Wichita, Kansas

Checked by