

15-103-21021-00-00
STATE OF KANSAS - CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-2
8-7-58

TYPE TEST: Deliverability Open Flow **TEST DATE:** April 21, 1990

COMPANY: Fairway Petroleum, Inc. **LEASE:** Visocky **WELL NO.:** 3

COUNTY: Leavenworth **LOCATION:** SE SW SW **SECTION:** 12 **TWP:** 8S **RNG:** 21E **ACRES:** 40

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

COMPLETION DATE: 8/14/88 **PLUG BACK TOTAL DEPTH:** 1335 **PACKER SET AT:**

CASING SIZE	WT.	I.D.	SET AT	PERF.	TO
		4 1/2"	1335	1267	1274
TUBING SIZE	WT.	I.D.	SET AT	PERF.	TO

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

PRODUCING THRU: 4 1/2" Casing **RESERVOIR TEMPERATURE F:** 76° **BAR. PRESS - P_a:** 14.4 Psia

GAS GRAVITY - G_g: 0.5766 **% CARBON DIOXIDE:** 0 **% NITROGEN:** 3.93 **API GRAVITY OF LIQUID:** 23.8

VERTICAL DEPTH (H): 1335 **TYPE WTR. CONN.:** Flange **(METER RUN)(PROVER) SIZE:** 2"

SHUT-IN PRESSURE: SHUT IN: April 15, 1990 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

FLOW TEST: STARTED: April 16, 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						120	134.4			24	
FLOW (1)	.50	44	-----	76	76	44	58.4			21	

(1) Due to oil quantities well was tested into a recovery tank and not through a meter

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _o) (F _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
4.388	58.4	-----	1.3169	0.984	1.0107	335.6		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 18.1 (P_w)² = 3.4 P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_w)² = 0.207 (P_d)² = _____

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{[P_c^2 - P_w^2]}{[P_c^2 - P_d^2]}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
	14.7			0.85			405.00

OPEN FLOW 405.0 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.

[Signature]
For Company

Witness (if any)

Checked by