

15-103-20345-00-06
STATE OF KANSAS - CORPORATION COMMISSION
 ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-2
8-7-58

2
P3
5-23-89

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

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

COUNTY: Leavenworth **LOCATION:** SE NW SW **SECTION:** 28 **TWP:** 8S **RNG:** 22E **ACRES:** 185

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

COMPLETION DATE: 6/18/85 **PLUG BACK TOTAL DEPTH:** 1370 **PACKER SET AT:**

CASING SIZE: WT. 4 1/2" I.D. **SET AT:** 1370 **PERF.:** 1316 **TO:** 1328

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:** 73 **BAR. PRESS - P_s:** 14.4 Psia

GAS GRAVITY - G_g: 0.5857 **% CARBON DIOXIDE:** .2 **% NITROGEN:** 6.46 **API GRAVITY OF LIQUID:** 18.6

VERTICAL DEPTH (H): 1370 **TYPE WTKR 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 18, 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 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						305	319.4			24	
(1) FLOW	.50	85	--	73	73	85	99.4			1	

(1) Well tested to atmosphere, RATE OF FLOW CALCULATIONS due to well bringing too much water to accurately gauge through a meter.

COEFFICIENT (F ₁)(F ₂) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{res} h_w}$	GRAVITY FACTOR P _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	OR RECEIVED STATE CORPORATION COMMISSION MAY 22 1989
(1) 4.388	99.4	--	1.3067	0.9871	1.0102	568.3	

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 102.0 ; (P_w)² = 9.9 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (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
	92.4			0.85			614.8

OPEN FLOW 614.8 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 20 day of April, 1989.

[Signature]
For Company

Witness (if any)

Checked by