

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

FORM O-3
8-7-58

12
5-23-89

15-103-20946-0000

TYPE TEST: Deliverability Open Flow **TEST DATE:** April 19, 1989

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

COUNTY: Leavenworth **LOCATION:** NE NE SE **SECTION:** 27 **TWP:** 7S **RNG:** 21E **ACRES:** 40

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

COMPLETION DATE: 12/16/87 **PLUG BACK TOTAL DEPTH:** 1494 **PACKER SET AT:**

CASINO SIZE: WT. 9.5 I.D. 4 1/2" SET AT 1493 PERF. 1390 TO 1396

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

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

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

GAS GRAVITY - G_g: 0.5824 **% CARBON DIOXIDE:** 0 **% NITROGEN:** 4.5 **API GRAVITY OF LIQUID:**

VERTICAL DEPTH (H): 1493 **TYPE WATER CONN.:** none **(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 19, 1989 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

OBSERVED DATA Years
DURATION OF SHUT-IN _____ 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	CASED 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						502	516.4			Years	
FLOW	.50	328	--	79	79	328	342.4			1	

RATE OF FLOW CALCULATIONS

COEFFICIENT (P _i)(P _e) / Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P _m h _w	GRAVITY FACTOR P _g	FLOWING TEMP. FACTOR P _t	DEVIATION FACTOR P _{dv}	RATE OF FLOW R Mcfd	RECEIVED CORPORATION COMMISSION MAY 22 1989 CONSERVATION DIVISION Wichita, Kansas
4.388	342.4	--	1.310	0.9822	1.027	1,985	

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 266.7 ; (P_w)² = 117.2 ; 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	(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
	149.5			0.85			3,470

OPEN FLOW 3,470 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

For Company

Witness (if any) _____

Checked by