

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

FORM O-2
8-7-58
29
19
5-23-89

15-103-20219-0000

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

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

COUNTY: Leavenworth **LOCATION:** SE SE NE **SECTION:** 26 **TWP:** 7S **RNG:** 21E **ACRES:** 40

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

COMPLETION DATE: 8/16/83 **PLUG BACK TOTAL DEPTH:** 1528 **PACKER SET AT:**

CASING SIZE: WT. L.D. SET AT PERF. TO
4 1/2" 1528 1400 1414

TUBING SIZE: WT. L.D. SET AT PERF. TO
2 3/8" 1435

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

PRODUCING THRU: 2 3/8" Tubing **RESERVOIR TEMPERATURE F:** 76° **BAR. PRESS - P_a:** 14.4 Psia

GAS GRAVITY - G_g: 0.600 **% CARBON DIOXIDE:** .52 **% NITROGEN:** 4.67 **API GRAVITY OF LIQUID:** 21.9

VERTICAL DEPTH (H): 1528 **TYPE WTR. 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

DURATION OF SHUT-IN 24 HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h _w Xh _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w X P ₁ X P _c) psia	psig	(P _w)(P ₁ X P _c) psia		
SHUT-IN						107	121.4			24	
FLOW	.50	53	--	76	76	53	67.4			1	

RATE OF FLOW CALCULATIONS

RECEIVED
STATE CORPORATION COMMISSION
MAY 22 1989
CONSERVATION DIVISION
Wichita, Kansas

COEFFICIENT (F _p)(P _a) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd
4.388	67.4	--	1.2910	0.9843	1.0081	378.9

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 14.7 ; (P_w)² = 4.5 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_d)² = _____

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_a^2}{P_c^2 - P_d^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
	10.2			0.85			535

OPEN FLOW 535 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