

15-103-20628-00-00
STATE OF KANSAS - CORPORATION COMMISSION
 ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-2
8-7-58

8
P2
5-23-79

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

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

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

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

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

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

TUBING SIZE: WT. L.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 METER 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	CASINO WELL-HEAD PRESS		TUBING WELL-HEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT-IN						157	171.4			24	
(1) FLOW	.75	.35	--	78.7	78.7	35	49.4			1	

(1) Heavy tar (est. 10 gravity) hampered testing-rate was determined using 1" orifice RATE OF FLOW CALCULATIONS for a more accurate flow rate.

COEFFICIENT (F _p)(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	STATE CORPORATION COMMISSION GOR MAY 22 1989 CONSERVATION DIVISION Wichita Kansas
(1) 9.694	49.4	--	1.2905	0.9825	1.0076	611.8	

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 29.3 ; (P_w)² = 1.8 ; 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
	27.5			0.85			639

OPEN FLOW 639 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 _____ day of April, 1989.

Witness (if any)

[Signature]
For Company

Checked by