

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

FORM O-2
8-7-58

15-005-20045-0000

TYPE TEST: Deliverability Open Flow **TEST DATE:** June 16, 1988

COMPANY: Fairway Petroleum, Inc. **LEASE:** POHL **WELL NO.:** 4

COUNTY: Atchison **LOCATION:** SE **SECTION:** 23 **TWP:** 7 **RNG:** 21E **ACRES:** 806

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

COMPLETION DATE: 4/10/85 **PLUG BACK TOTAL DEPTH:** 1463' **PACKER SET AT:**

CASING SIZE: **WT.:** **L.D.:** 4 1/2" **SET AT:** 1463' **PERF.:** 1385-1389 **TO:**

TUBING SIZE: **WT.:** **L.D.:** 2 3/8" **SET AT:** 1455' **PERF.:** 1392-1396 **TO:**

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

PRODUCING THRU: 2 3/8" tubing **RESERVOIR TEMPERATURE F:** 77° **BAR. PRESS - P_a:** 14.4 Psia

GAS GRAVITY - G_g: .5810 **% CARBON DIOXIDE:** **% NITROGEN:** 1.58 **API GRAVITY OF LIQUID:** 20.3

VERTICAL DEPTH (H): 1463 **TYPE METER CONN.:** Barton **(METER RUN) (PROVER) SIZE:** 2"

SHUT-IN PRESSURE: SHUT IN: June 14, 1988 at 9:00 AM (M) TAKEN June 16, 1988 at 12:00 Noon (AM)(PM)

FLOW TEST: STARTED: June 14, 1988 at 12:00 Noon (AM)(PM) TAKEN June 16, 1988 at 12:30 (AM)(PM)

OBSERVED DATA **DURATION OF SHUT-IN:** 51 HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h _w X h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _t)(P _c) psia	psig	(P _w)(P _t)(P _c) psia		
SHUT-IN						324.0	338.4				
FLOW	1.00	146.0	-	77	-	146.0	160.4				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _D)(F _g) / Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{wh} h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R / Mcfd	GOR	Q _m
17.53	160.4	-	1.3119	0.9834	1.0061	3656		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

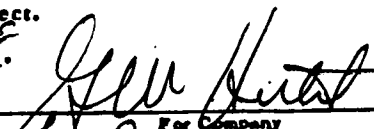

(P_c)² = _____ ; (P_w)² = _____ ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_d)² = _____

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG []	"n"	n = LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R = ANTILOG Mcfd
CALCULATED BY IBM COMPUTER				0.85			4534

OPEN FLOW 4534 **Mcf d @ 14.65 psia** **DELIVERABILITY** **Mcf d @ 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 24 day of June, 1988.


 For Company

 Checked by

Witness (if any) _____
 For Completion _____