

15-103-20677-00-00
STATE OF KANSAS - CORPORATION COMMISSION
 ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-3
8-7-58

TYPE TEST: Deliverability Open Flow **TEST DATE:** July 10, 1988

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

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

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

COMPLETION DATE: 7/12/86 **PLUG BACK TOTAL DEPTH:** 1250 Est. **PACKER SET AT:**

CASING SIZE: WT. 4 1/2" **L.D. SET AT:** 1250 Est. **PERF. TO:** 1195-1202 Est.

TUBING SIZE: WT. **L.D. SET AT:** **PERF. TO:**

TYPE COMPLETION (Describe): Perforated **TYPE FLUID PRODUCTION:** Water

PRODUCING THROUGH DATE: **RESERVOIR TEMPERATURE F:** 76° **BAR. PRESS - P_e:** 14.4 Psia

GAS GRAVITY - G_g: .5843 **% CARBON DIOXIDE:** N.A. **% NITROGEN:** N.A. **API GRAVITY OF LIQUID:**

VERTICAL DEPTH (H): 1250 **TYPE METER CONN.:** Barton **(METER RUN) (PROVER) SIZE:** 2"

SHUT-IN PRESSURE: SHUT IN: July 9 19 88 AT 5 (AM)(PM) TAKEN July 10 19 88 AT 11 (AM)(PM)

FLOW TEST: STARTED: 19 AT 11 (AM)(PM) TAKEN July 10 19 88 AT 11:40 (AM)(PM)

RECEIVED
 SEP 12 1988
 CONCENTRATION DIVISION
 Wichita, Kansas

OBSERVED DATA **DURATION OF SHUT-IN:** 18 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 _t)(P _c) psia	psig	(P _w)(P _t)(P _c) psia		
SHUT-IN						198.0	212.4				
FLOW	1.25	134.0	-	76	-	134.0	148.4				

RATE OF FLOW CALCULATIONS

COEFFICIENT (P _w)(P _d) / Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P _m h _w	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	Q _m
28.34	148.4	-	1.2982	.9843	1.005	5412		

(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 = _____

(P _w) ² - (P _d) 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 x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
CALCULATED BY IBM COMPUTER				0.85			9533

OPEN FLOW 9533 **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 21 day of July, 1988.


 For Company
LARRY CULBERTSON
 Checked by

Witness (if any) _____