

15-103-20670-00.00
STATE OF KANSAS - CORPORATION COMMISSION
 ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-2
8-7-58

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

COMPANY: Fairway Petroleum, Inc. **LEASE:** RYAN **WELL NO.:** 3

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

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

COMPLETION DATE: 7/7/86 **PLUG BACK TOTAL DEPTH:** 1261 **PACKER SET AT:**

CASINO SIZE: **WT.:** **L.D.:** 4 1/2" **SET AT:** 1255 **PERF.:** 1208-1216 **TO:**

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

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

PRODUCING THRU: **RESERVOIR TEMPERATURE F:** 76° **BAR. PRESS - P_a:** 14.4 Psia

GAS GRAVITY - G_g: .5869 **% CARBON DIOXIDE:** N.A. **% NITROGEN:** N.A. **API GRAVITY OF LIQUID:**

VERTICAL DEPTH (H): 1261 **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 11:40 (AM)(PM) TAKEN July 10 19 88 AT 12:10 (AM)(PM)

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	CASINO WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _e)(P _c) psia	psig	(P _w)(P _e)(P _c) psia		
SHUT-IN						181.0	195.4				
FLOW	1.25	130.0	-	76	-	130.0	144.4				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
28.34	144.4	-	1.2985	0.9843	1.0045	5265		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ (P_w)² = _____ P_d² = _____ % (P_c - 14.4) + 14.4 = _____ (P_d)² = 0.207

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG []	"n"	n = LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R = ANTILOG Mcfd
CALCULATED BY IBM COMPUTER				0.85			10266

OPEN FLOW 10266 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 July 21 day of _____, 19__.

Larry Culbertson

 For Company
 LARRY CULBERTSON
 Checked by

Witness (if any)

For Commission