

STATE OF KANSAS - CORPORATION COMMISSION

FORM O-2
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

TYPE TEST: Deliverability Open Flow TEST DATE: April 9, 1990

COMPANY: Fairway Petroleum, Inc. LEASE: Trujillo WELL NO.: 3

COUNTY: Leavenworth LOCATION: NW SE SW SECTION: 12 TWP: 8S RNG: 21E ACRES: 35

FIELD: McLouth PIPELINE CONNECTION: LAGGS, INC.

COMPLETION DATE: 12/10/86 PLUG BACK TOTAL DEPTH: 1325 PACKER SET AT: []

CASINO SIZE: WT. I.D. SET AT PERF. TO
4 1/2" 1325 1272 1284

TUBING SIZE: WT. I.D. SET AT PERF. TO
2 3/8" 13100

TYPE COMPLETION (Describe): Perforation TYPE FLUID PRODUCTION: Oil

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

GAS GRAVITY - G_g: 0.5914 % CARBON DIOXIDE: 0 % NITROGEN: 7.31 API GRAVITY OF LIQUID: 21.8

VERTICAL DEPTH (H): 1325 TYPE METER CONN.: Flange (METER RUN)(PROVER) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN: March 29, 1990 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)
FLOW TEST: STARTED: April 3, 1990 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	CASED 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						102	116.4			24	
FLOW	.625	44	14	76.7	76.7	77	91.4			24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _b)(F _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
1.914	58.4	28.6	1.3054	0.9843	1.0061	70.8		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 13.5 | (P_w)² = 8.4 | P_d = _____ % | (P_c - 14.4) + 14.4 = _____ | (P_w)² = 0.207 | (P_d)² = _____

(P _c) ² - (P _w) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	$\left[\frac{P_c^2 \cdot P_w^2}{P_c^2 \cdot P_d^2} \right]$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
	5.1			0.85			183.7

OPEN FLOW 183.7 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 12 day of May, 1990

MAY 29 1990

Witness (if any)

CONSERVATION DIVISION
Topeka, Kansas

[Signature]
For Company

Checked by