15-103-20670-00-00

STATE OF KANSAS – CORPORATION COMMISSION

FORM C-2
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

TYPE TEST: ☐ Deliverability ☒ Open Flow TEST DATE: April 20, 1989

COMPANY	LEASE	WELL NO.
Fairway Petroleum, Inc.	Ryan	3

COUNTY	LOCATION	SECTION	TWP	RNG	ACRES
Leavenworth	NE	33	8S	22E	27

FIELD	RESERVOIR	PIPELINE CONNECTION
	McLouth	LAGGS INC.

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

CASING SIZE	WT.	I.D.	SET AT	PERF.	TO
		4½"	1255	1208	1216

TUBING SIZE	WT.	I.D.	SET AT	PERF.	TO

TYPE COMPLETION (Describe)	TYPE FLUID PRODUCTION
Perforation	Water

PRODUCING THRU	RESERVOIR TEMPERATURE F	BAR. PRESS – P_a
4½" Casing	76°	14.4 Psia

GAS GRAVITY – G_g	% CARBON DIOXIDE	%NITROGEN	API GRAVITY OF LIQUID
0.5869	N.A.	N.A.	

VERTICAL DEPTH (H)	TYPE METER CONN.	(METER RUN)(PROVER) SIZE
1261	Flange	2"

SHUT-IN PRESSURE: SHUT IN April 12, 1989 19___ AT _____ (AM)(PM) TAKEN _____ 19___ AT _____ (AM)(PM)

FLOW TEST: STARTED April 20, 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	CASING WELLHEAD PRESS. psig	CASING WELLHEAD PRESS. $(P_w)(P_t)(P_c)$ psia	TUBING WELLHEAD PRESS. psig	TUBING WELLHEAD PRESS. $(P_w)(P_t)(P_c)$ psia	DURATION HOURS	LIQUID PROD. Bbls.
SHUT-IN						120.0	134.4			24	
FLOW	1.25	45	6	76	76	93.0	107.4			24	

RATE OF FLOW CALCULATIONS

COEFFICIENT $(F_b)(F_p)$ Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m x h_w}$	GRAVITY FACTOR F_g	FLOWING TEMP. FACTOR F_t	DEVIATION FACTOR F_{pv}	RATE OF FLOW R Mcfd	GOR
8.329	59.4	18.9	1.2985	0.9843	1.0045	202.1	

RECEIVED
STATE CORPORATION COMMISSION
MAY 22 1989
CONSERVATION DIVISION
Wichita, Kansas

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$= 18.0 ; $(P_w)^2$= 11.5 ; P_d= ____ % $(P_c - 14.4) + 14.4$ = ____ ; $(P_d)^2$=0.207 $(P_d)^2$= ____

$(P_c)^2-(P_a)^2$ or $(P_c)^2-(P_d)^2$	$(P_c)^2-(P_w)^2$	$\frac{P_c^2-P_a^2}{P_c^2-P_d^2}$ / $\frac{P_c^2-P_w^2}{P_c^2-P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
	6.5			0.85			549

OPEN FLOW 549 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 20 day of April, 19 89

Witness (if any)

For Company

Checked by