15-103-20670-00-00

STATE OF KANSAS – CORPORATION COMMISSION

FORM G-2
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

TYPE TEST: ☐ Deliverability ☒ Open Flow TEST DATE: April 21, 1990

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 14, 1990 19___ AT ___ (AM)(PM) TAKEN ___ 19___ AT ___ (AM)(PM)

FLOW TEST: STARTED April 15, 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	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						91	105.4			24	
FLOW	.75	26	12	76	76	62	76.4			24	

RATE OF FLOW CALCULATIONS

COEFFICIENT $(F_b)(F_p)$ Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F_g	FLOWING TEMP. FACTOR F_t	DEVIATION FACTOR F_{pv}	RATE OF FLOW R Mcfd	GOR	G_m
2.779	40.4	22.0	1.2985	0.9843	1.0045	78.5		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$= 11.1 ; $(P_w)^2$= 5.8 ; P_d= ___ % $(P_c - 14.4) + 14.4$ = ___ ; $(P_a)^2$=0.207 $(P_d)^2$= ___

$(P_c)^2-(P_a)^2$ or $(P_c)^2-(P_d)^2$	$(P_c)^2-(P_w)^2$	$\frac{P_c^2-P_a^2}{P_c^2-P_d^2}$ / $P_c^2-P_w^2$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
	5.3			0.85			161.1

OPEN FLOW 161.1 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, 1998

RECEIVED
STATE CORPORATION COMMISSION
MAY 29 1998
CONSERVATION DIVISION
Wichita, Kansas

Witness (if any)

For Company

Checked by