FORM C-3
8-7-58

STATE OF KANSAS – CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

15-091-21744-0000

TYPE TEST: ☐ Deliverability ☒ Open Flow TEST DATE: 3/17/88

COMPANY: Olathe Joint Ventures LEASE: Baudendistel WELL NO.: #5

COUNTY: Johnson LOCATION: 3230'fsl 1660'fel SECTION: SE,SW,NE TWP: 8 - 14 S. RNG: - 23 E. ACRES:

FIELD: Olathe RESERVOUR: Bartlesville Sd. PIPELINE CONNECTION: Cottonwood Joint Ventures

COMPLETION DATE: 3/13/86 PLUG BACK TOTAL DEPTH: 815 ft PACKER SET AT: 775 ft

CASING SIZE: 2 7/8" WT.: I.D.: 2.5" SET AT: 775 ft PERF.: open hole to 815 ft TO:

TUBING SIZE: none WT.: I.D.: SET AT: PERF.: TO:

TYPE COMPLETION (Describe): single gas TYPE FLUID PRODUCTION: dry

PRODUCING THRU: casing RESERVOIR TEMPERATURE F: BAR. PRESS – P_a: 14.4 Psia

GAS GRAVITY – G_g: .5763 % CARBON DIOXIDE: .77% % NITROGEN: 3.56% API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): 795 ft TYPE METER CONN.: flange (METER RUN)(PROVER) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN before 3/14 19 88 AT 8 (AM)(PM) TAKEN 3/17 19 88 AT 8:30 (AM)(PM)

FLOW TEST: STARTED 3/17 19 88 AT 8:31 (AM)(PM) TAKEN 3/17 19 88 AT 9:30 (AM)(PM)

DURATION OF SHUT-IN 72+ HR.

OBSERVED DATA

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	.5	144.0					158.4			72.0+	
FLOW	.5	119.0	20"		49°F		133.4			1.0	

RATE OF FLOW CALCULATIONS

RECEIVED
STATE CORPORATION COMMISSION
MAR 21 1989
03-21-88
CONSERVATION DIVISION
Wichita, Kansas

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	G_m
1.219	133.4	51.65	1.318	1.011	1.010	84.73		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$: 25,091 ; $(P_w)^2$: 17,796 ; P_d= ____ % $(P_c - 14.4) + 14.4$ = ____ ; $(P_a)^2$=0.207 $(P_d)^2$= ____

$(P_c)^2-(P_a)^2$ or $(P_c)^2-(P_d)^2$	$(P_c)^2-(P_w)^2$	$\frac{P_c^2-P_a^2}{P_c^2-P_d^2}$ $\frac{P_c^2-P_a^2}{P_c^2-P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
24,884	7295	3.4110	.5329	1.0	.5329	3.411	289.0

OPEN FLOW 289 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 18TH day of MARCH, 1988.

James F. Stegeman
For Company

Witness (If any)

Checked by

For Commission