STATE OF KANSAS – CORPORATION COMMISSION

FORM C-2
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

15-005-20064-0000

TYPE TEST: ☐ Deliverability ☒ Open Flow TEST DATE: 9/15/89

COMPANY	LEASE	WELL NO.
Theodore I. Leben & Associates	Sheeley	1-2

COUNTY	LOCATION	SECTION	TWP	RNG	ACRES
Atchison	N/2 NE	2	7S	18E	

FIELD	RESERVOIR	PIPELINE CONNECTION
Wildcat	U. McLouth	Atchison Pipeline Co.

COMPLETION DATE	PLUG BACK TOTAL DEPTH	PACKER SET AT
10/11/88	1807'	

CASING SIZE	WT.	I.D.	SET AT	PERF.	TO
4 1/2"	10.5#		1810'	1696	1704

TUBING SIZE	WT.	I.D.	SET AT	PERF.	TO
2 3/8"	4.7#		1752		

TYPE COMPLETION (Describe)	TYPE FLUID PRODUCTION
Single Gas	Gas

PRODUCING THRU	RESERVOIR TEMPERATURE F	BAR. PRESS – P_a
Tubing	97°F	14.4 Psia

GAS GRAVITY – G_g	% CARBON DIOXIDE	% NITROGEN	API GRAVITY OF LIQUID
0.576	0.79	2.82	

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

SHUT-IN PRESSURE: SHUT IN 8/26 19 89 AT 8:00 (AM)(PM) TAKEN 8/29 19 89 AT 8:00 (AM)(PM)

FLOW TEST: STARTED 9/14 19 89 AT 7:00 (AM)(PM) TAKEN 9/15 19 89 AT 7:00 (AM)(PM)

OBSERVED DATA

DURATION OF SHUT-IN 72 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						526	540.4				
FLOW	0.75	280	30	66		368	382.4	284	298.4	24.0	light to med mist oil & wate

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	Q_m
2.779	294.4	93.98	1.318	0.9943	1.020	349		

RECEIVED
STATE CORPORATION COMMISSION
OCT 16 1989
CONSERVATION DIVISION

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$= 292,032 ; $(P_w)^2$= 146,229 ; P_d^2 = ____ % $(P_c - 14.4) + 14.4$ = ____ ; $(P_d)^2$= ____

$(P_d)^2$=0.207

$(P_c)^2-(P_a)^2$ 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
291,825	145,803	2.00	0.3014	0.937	.2824	1.916	668

OPEN FLOW 668 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 2nd day of October, 19 89

Witness (if any)

For Company

Checked by