STATE OF KANSAS – CORPORATION COMMISSION

FORM C-2
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

15-181-20072-0000

TYPE TEST: [XX] Deliverability [ ] Open Flow TEST DATE: 6-2-86

COMPANY	LEASE	WELL NO.
GOODLAND GAS COMPANY	Glasco	3-31

COUNTY	LOCATION	SECTION	TWP	RNG	ACRES
Sherman	SW¼, SW¼, SW¼	31	7S	38W	

FIELD	RESERVOIR	PIPELINE CONNECTION
Goodland	Niobrara	KN Energy

COMPLETION DATE	PLUG BACK TOTAL DEPTH	PACKER SET AT
11-19-79	1020	

CASING SIZE	WT.	I.D.	SET AT	PERF.	TO
4½"			918	None	

TUBING SIZE	WT.	I.D.	SET AT	PERF.	TO
None					

TYPE COMPLETION (Describe)	TYPE FLUID PRODUCTION
Open hole	Gas

PRODUCING THRU	RESERVOIR TEMPERATURE F	BAR. PRESS – P_a
Casing		13.2 ~~XXXX~~ psia

GAS GRAVITY – G_g	% CARBON DIOXIDE	% NITROGEN	API GRAVITY OF LIQUID
0.5837	1.98	2.79	

VERTICAL DEPTH (H)	TYPE METER CONN.	(METER RUN) (~~PROVER~~) SIZE
	Orifice	2.067

SHUT-IN PRESSURE: SHUT IN 5-27 19 86 AT ____ (AM)(PM) TAKEN 5-30 19 86 AT ____ (AM)(PM)

FLOW TEST: STARTED 5-30 19 86 AT ____ (AM)(PM) TAKEN 6-2 19 86 AT ____ (AM)(PM)

OBSERVED DATA

DURATION OF SHUT-IN ____ 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	--	--	--	--	--	24.5	37.7	--	--	72	--
FLOW	0.750	--	--	64	--	21.8	35	--	--	72	--

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	G_m
115.1	--	--	1.3089	0.9962	1.0013	30	--	--

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

$(P_c)^2-(P_a)^2$ or $(P_c)^2-(P_d)^2$	$(P_c)^2-(P_w)^2$	$\frac{P_c^2-P_a^2}{P_c^2-P_d^2}$ / $\frac{P_c^2-P_w^2}{P_c^2-P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
1.247	0.196	6.353	0.803	0.718	0.577	3.772	113

OPEN FLOW 113 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 25th day of Nov, 1986.

Robert M Richardson
For Company

Witness (if any)

For Commission

DEC 5 1986

Checked by DEC