

15-181-20133-00-00
STATE OF KANSAS - CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-2
8-7-58
19
2-3-86

TYPE TEST: Deliverability Open Flow **TEST DATE:** 6-2-86

COMPANY: GOODLAND GAS COMPANY **LEASE:** Glasco **WELL NO.:** 2-6

COUNTY: Sherman **LOCATION:** SW $\frac{1}{4}$, SW $\frac{1}{4}$, NW $\frac{1}{4}$ **SECTION:** 6 **TWP:** 8S **RNG:** 38W **ACRES:**

FIELD: Goodland **RESERVOIR:** Niobrara **PIPELINE CONNECTION:** KN Energy

COMPLETION DATE: 8-30-80 **PLUG BACK TOTAL DEPTH:** 983 **PACKER SET AT:** None

CASINO SIZE: 4 $\frac{1}{2}$ " **WT.:** **I.D.:** **SET AT:** 903 **PERF.:** None **TO:**

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

TYPE COMPLETION (Describe): Open Hole **TYPE FLUID PRODUCTION:** Gas

PRODUCING THRU: Casing **RESERVOIR TEMPERATURE, F:** **BAR. PRESS - P_a:** 13.2 ~~14~~ Psia

GAS GRAVITY - G_g: 0.5837 **% CARBON DIOXIDE:** 1.98 **% NITROGEN:** 2.79 **API GRAVITY OF LIQUID:**

VERTICAL DEPTH (ft): **TYPE METER CONN.:** Positive Displacement Meter **(METER RUN)(PROVER) SIZE:**

SHUT-IN PRESSURE: SHUT IN 5-27 1986 AT (AM)(PM) TAKEN 5-30 1986 AT (AM)(PM)
FLOW TEST: STARTED 5-30 1986 AT (AM)(PM) TAKEN 6-2 1986 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	CASINO WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT-IN	--	---	--	--	--	32	45.2	--	--	72	--
FLOW	--	--	--	--	--	16	29.2	--	--	72	--

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcf/d	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	Q _m
--	--	--	--	--	--	16	--	--

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ ; (P_w)² = _____ ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_d)² = _____

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ or $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	(P _c) ² - (P _w) ²	$\frac{P_c^2 - P_a^2}{P_c^2 - P_d^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
1.869	1.190	1.570	0.196	0.718	0.141	1.382	22

OPEN FLOW 22 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 21 1986