

15-181-20265-00-00
 STATE OF KANSAS - CORPORATION COMMISSION
 ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
 8-7-58

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

COMPANY: GOODLAND GAS COMPANY LEASE: Wolf Eyth WELL NO.: 1-2
 COUNTY: Sherman LOCATION: SW $\frac{1}{4}$, SW $\frac{1}{4}$ SECTION: 2 TWP: 8S RNO: 40W ACRES:
 FIELD: Goodland RESERVOIR: Niobrara PIPELINE CONNECTION: KN Energy
 COMPLETION DATE: PLUG BACK TOTAL DEPTH: PACKER SET AT: None

CASINO SIZE: 4 1/2" WT. L.D. SET AT: 1342 PERF.: 1204 TO: 1242
 TUBING SIZE: WT. L.D. SET AT: PERF.: TO:

TYPE COMPLETION (Describe): None TYPE FLUID PRODUCTION: Gas
 Frac 82,600# Sd., 40 tons CO₂, 633 Bbls H₂O
 PRODUCING THRU: RESERVOIR TEMPERATURE: F BAR. PRESS - P_a: 13.2 KXX Psia

Casing: GAS GRAVITY - G_s: 0.5837 % CARBON DIOXIDE: 1.98 % NITROGEN: 2.79 API GRAVITY OF LIQUID:
 VERTICAL DEPTH (M): TYPE METER CONN.: Orifice (METER RUN)(PROVER) SIZE: 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	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	--	--	--	--	--	39	52.2	--	--	72	--
FLOW	0.500	--	--	63	--	18.8	32	--	--	72	--

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _w)(F _p) / Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \Delta h_w}$	GRAVITY FACTOR γ_g	FLOWING TEMP. FACTOR F_L	DEVIATION FACTOR F_{pv}	RATE OF FLOW R / Mcfd	GOR	G _m
50.5	--	--	1.3089	0.9971	1.0011	49	--	--

(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 = _____

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
				0.500	0.088	1.225	60
2.550	1.701	1.500	0.176	1.000	0.176	1.500	73

OPEN FLOW 60-73 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. Richards
 For Company

Witness (if any)

DEC 5 1986

Checked by 12-1-86
 DEC 1 1986