

15-181-20232-00-00
 STATE OF KANSAS - CORPORATION COMMISSION

FORM O-2
 8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

TYPE TEST: Deliverability Open Flow TEST DATE: 5-29-87

COMPANY: Goodland Gas Co. LEASE: Schwendener WELL NO.: 2-36

COUNTY: Sherman LOCATION: SW SW SECTION: 36 TWP: 7 RNG: 39 W ACRES:

FIELD: Goodland Gas RESERVOIR: Niobrara PIPELINE CONNECTION: K N ENERGY

COMPLETION DATE: 1-26-83 PLUG BACK TOTAL DEPTH: PACKER SET AT:

CASINO SIZE WT. I.D. SET AT PERF. TO

TUBING SIZE WT. I.D. SET AT PERF. TO

TYPE COMPLETION (Describe) TYPE FLUID PRODUCTION

PRODUCING THRU RESERVOIR TEMPERATURE F BAR. PRESS - P_a 14.4 Psia

GAS GRAVITY - G_g 0.5827 % CARBON DIOXIDE % NITROGEN API GRAVITY OF LIQUID

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

SHUT-IN PRESSURE: SHUT IN 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)
 FLOW TEST: STARTED 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

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	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						27.4	41.8				
FLOW	.750	19.1	3.2	60		19.5	33.9				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	Q _m
2.779	33.5	10.35	1.31	1.0	1.011	38.09		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 1747.24 (P_w)² = 1149.21 P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_w)² = 0.207 (P_d)² = _____

(P _c) ² - (P _w) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) 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
1539.88	598.03	2.5749	.4108	.982	.4034	2.532	96.44

OPEN FLOW 96 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 _____ day of _____, 19____.

Witness (if any)
 Dale A. Boltzinger
 For Commission

RECEIVED
 STATE CORPORATION COMMISSION
 JUN 12 1987
 For Company
 CONSERVATION DIVISION
 Wichita, Kansas
 Checked by