

15-181-20264-00-00

STATE OF KANSAS - CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-8
8-7-58

TYPE TEST: Deliverability Open Flow TEST DATE: 5-27-87

COMPANY: Goodland Gas Co. LEASE: Henbrieh WELL NO.: 1-1

COUNTY: Sherman LOCATION: SW SW SECTION: 1 TWP: 8 RNG: 40W ACRES:

FIELD: Goodland Gas RESERVOIR: Niobrara PIPELINE CONNECTION: KN ENERGY

COMPLETION DATE: 11-17-83 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						21.0	35.4				
FLOW	1.500	18.8	3.1	60		19.0	33.4				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{mshw}}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	Q _m
1.219	33.2	10.14	1.31	1.0	1.011	16.37		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 1253.16 (P_w)² = 1115.56 P_d² = _____ % (P_c - 14.4) + 14.4 = _____ (P_w)² = 0.207 (P_d)² = _____

$\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
1045.80	137.60	7.600	.8808	.869	.7654	5.827	95.39

OPEN FLOW 95 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 _____, 1987.

Witness (if any)
Dale F Balthazor
For Commission

RECEIVED
STATE CORPORATION COMMISSION
6-12-87
JUN 12 1987
For Company
CONSERVATION DIVISION
Checked by
Wichita, Kansas