15-181-20256-00-00

STATE OF KANSAS – CORPORATION COMMISSION

FORM C-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: city of Goodland WELL NO.: 1-8

COUNTY: Sherman LOCATION: C NW NW SECTION: 8 TWP: 8 RNG: 39W ACRES:

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

COMPLETION DATE: 10-12-83 PLUG BACK TOTAL DEPTH: PACKER SET AT:

CASING 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: .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

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						28.7	43.1				
FLOW	.500	15.3	5.5	60		15.6	30.0				

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
1.219	29.7	12.78	1.31	1.0	1.011	20.63		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$= 1857.61 $(P_w)^2$= 900.00 P_d= _____ % $(P_c - 14.4) + 14.4$ = _____ ; $(P_a)^2$=0.207 $(P_d)^2$= _____

$(P_c)^2-(P_a)^2$ or $(P_c)^2-(P_d)^2$	$(P_c)^2-(P_w)^2$	$\frac{P_c^2-P_a^2}{P_c^2-P_d^2}$ / $P_c^2-P_w^2$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
1650.25	957.61	1.723	.2362	.822	.1942	1.564	32.27

OPEN FLOW 32 Mcfd @ 14.65 psia DELIVERABILITY _____ Mcfd @ 14.65 psia

RECEIVED
STATE CORPORATION COMMISSION

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.

JUN 12 1987

Executed this the _____ day of _____, 19__.

CONSERVATION DIVISION
Wichita, Kansas

Witness (If any)

Dale Balthazor
For Commission

For Company

Checked by