

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

Water 0

TYPE TEST: Deliverability Open Flow TEST DATE: 6-14-82

COMPANY: Centennial Energy LEASE: Glasco WELL NO.: 1-6

COUNTY: Sherman LOCATION: NW 4 SECTION: 6 TWP: 8 RNG: 38 ACRES:

FIELD: Woodland Hse. RESERVOIR: Niobara PIPELINE CONNECTION: Kans Tub Nat Gas

COMPLETION DATE: 11-7-78 PLUG BACK TOTAL DEPTH: 951- PACKER SET AT:

CASING SIZE: 4 1/2 WT.: I.D.: SET AT: 910 PERF.: TO: open hole

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

TYPE COMPLETION (Describe): Small gas TYPE FLUID PRODUCTION:

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

GAS GRAVITY - G_g: .660 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): TYPE METER CONN.: (METER RUN) (COVER) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN: 6-14 1982 AT (AM)(PM) TAKEN: 6-17 1982 AT (AM)(PM)
 FLOW TEST: STARTED: 6-18 1982 AT (AM)(PM) TAKEN: 6-19 1982 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.		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						29.1	43.5				
FLOW	.413	10.1	11.0			10.6	25.0				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F ₁)(F ₂) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
.8280	24.5	16.416	1.291	1.000	1.000	1.75		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 1.89 ; (P_w)² = .63 ; P_d² = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_a)² = 0.207 ; (P_d)² = _____

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG []	"n"	"n" x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
1.69	1.26	1.3413	.1275	.718	.0916	1.2347	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 _____ day of _____, 1982

Witness (if any)

 For Commission

RECEIVED
 STATE CORPORATION COMMISSION
 CONSERVATION DIVISION
 Wichita, Kansas
 JUN 17 1982

Wichita, Kansas
 For Company
 Checked by

* assumed slope