

15-181-20091-00-00  
**STATE OF KANSAS - CORPORATION COMMISSION**  
 ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST *Water 0*

FORM G-2  
8-7-58

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

COMPANY: *Centennial Energy* LEASE: *Schwendener* WELL NO.: *1-36*

COUNTY: *Sherman* LOCATION: *SE 4* SECTION: *36* TWP: *7* RNG: *39* ACRES: *39*

FIELD: *Goodland Gas* RESERVOIR: *Nebraska* PIPELINE CONNECTION: *Kans Pip Nat Co*

COMPLETION DATE: *8-13-80* PLUG BACK TOTAL DEPTH: *1000* PACKER SET AT: \_\_\_\_\_

CASING SIZE: *2 7/8* WT. I.D. SET AT: *999* PERF.: *940* TO: *980*

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

TYPE COMPLETION (Describe): *Single gas* TYPE FLUID PRODUCTION: \_\_\_\_\_

PRODUCING THRU: *Casing* RESERVOIR TEMPERATURE F: \_\_\_\_\_ BAR. PRESS - P<sub>a</sub>: *14.4 Psia*

GAS GRAVITY - G<sub>g</sub>: *.588* % CARBON DIOXIDE: \_\_\_\_\_ % NITROGEN: \_\_\_\_\_ API GRAVITY OF LIQUID: \_\_\_\_\_

VERTICAL DEPTH (H): \_\_\_\_\_ TYPE METER CONN.: *flg.* (METER RUN) (COVER) SIZE: *2*

SHUT-IN PRESSURE: SHUT IN *6-14* *82* AT \_\_\_\_\_ (AM)(PM) TAKEN *6-17* *82* AT \_\_\_\_\_ (AM)(PM)

FLOW TEST: STARTED *6-18* *82* AT \_\_\_\_\_ (AM)(PM) TAKEN *6-19* *82* AT \_\_\_\_\_ (AM)(PM)

**OBSERVED DATA** DURATION OF SHUT-IN \_\_\_\_\_ HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASED WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						32.9	47.3				
FLOW	.413	13.8	12.0			14.2	28.6				

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>c</sub> )(F <sub>d</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
.8280	28.2	18.396	1.304	1.000	1.000	19.9		

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>c</sub>)<sup>2</sup> = *2.24*; (P<sub>w</sub>)<sup>2</sup> = *.82*; P<sub>d</sub><sup>2</sup> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_; (P<sub>w</sub>)<sup>2</sup> = 0.207; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	"n" x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
2.04	1.42	1.4366	.1573	.7184	.1130	1.2971	26

OPEN FLOW *26* 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)  
*Physicist*  
For Commission

*assumed slope*

STATE OF KANSAS  
CORPORATION COMMISSION  
OBSERVATION DIVISION  
Wichita, Kansas  
JUL 1 1982