

STATE OF KANSAS - CORPORATION COMMISSION

FORM O-2  
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST 15-181-20072-0000

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

COMPANY: Centennial Energy LEASE: Glasco WELL NO.: 3-31-

COUNTY: Sherman LOCATION: SW 4 SECTION: 31 TWP: 7 RNO: 38 ACRES:

FIELD: Rootland Mae RESERVOIR: Diopara PIPELINE CONNECTION: Kans Tub Nat Gas

COMPLETION DATE: 11-19-73 PLUG BACK TOTAL DEPTH: 1020 PACKER SET AT:

CASING SIZE: 4 1/2 WT. I.D. SET AT: 918 PERF. TO: open hole

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>: 581 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): TYPE METER CONN.: (METER RUN) (PROVER) 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 <sub>w</sub> )(hd)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS		TUBING WELLHEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						34.2	48.6				
FLOW	.750	19.0	17.5			19.5	33.9				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F <sub>p</sub> )(F <sub>d</sub> ) Mefd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mefd	GOR	G <sub>m</sub>
2.779	33.4	24.176	1.312	1.000	1.000	88		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 2.36; (P<sub>w</sub>)<sup>2</sup> = 1.15; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ (P<sub>a</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 Mefd
2.06	1.21	1.7025	.2311	.718	.1659	1.4653	129

OPEN FLOW 129 Mefd @ 14.65 psia DELIVERABILITY 129 Mefd @ 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):  
Glynn Wiley  
For Commission

\* assumed slope

STATE CORPORATION COMMISSION  
RECEIVED  
JUL 1 1982  
CONSERVATION DIVISION  
Wichita, Kansas

Checked by