

STATE OF KANSAS - CORPORATION COMMISSION

FORM G-2
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Water 0

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

COMPANY: Centennial Energy LEASE: Birney WELL NO.: 1-33

COUNTY: Sherman LOCATION: SE SECTION: 33 TWP: 7 RNO: 39 ACRES:

FIELD: Woodland Gas RESERVOIR: Niobara PIPELINE CONNECTION: Kans Dist Nat Gas

COMPLETION DATE: 8-30-80 PLUG BACK TOTAL DEPTH: 1050 PACKER SET AT:

CASING SIZE: 4 1/2 WT. I.D. SET AT: 934 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_a: 14.4 Psia

GAS GRAVITY - G_a: 0.586 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID:

VERTICAL DEPTH (ft): TYPE METER CONN.: (METER RUN) (PROVER) SIZE:

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 _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						33.2	47.6				
FLOW	.517	18.5	38.			19.3	33.7				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mofd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mofd	GOR	G _m
1.296	32.9	3.5358	1.306	1.000	1.000	59.8		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 2.27, (P_w)² = 1.14, P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_w)² = 0.207 (P_d)² = _____

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mofd
2.07	1.13	1.8319	.2629	.718	1.888	1.5444	92

OPEN FLOW 92 Mofd @ 14.65 psia DELIVERABILITY Mofd @ 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__.

STATE CORPORATION COMMISSION
RECEIVED
JUL 1 1982
CONSERVATION DIVISION
Wichita Kansas

Witness (if any)
Allyson Wilkey
For Commission

assumed slope

Checked by