

**KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2
(Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 4-7 & 8-10

API No. 15-007-22,069-0000

Company CHIEFTIAN OIL COMPANY, INC.		Lease AUFLEGER			Well Number #1-4	
County BARBER	Location C E/2 NW/4	Section 4---	TWP 33S---	RNG (E/W) 10W	Acres Attributed	
Field TRAFFIS EAST		Reservoir CHEROKEE & MISS.		Gas Gathering Connection LUMEN ENERGY		
Completion Date 3-25-86		Plug Back Total Depth 4859		Packer Set at NONE		
Casing Size 4.500	Weight 10.500	Internal Diameter 3.927	Set at 4859	Perforations 4490	To 4522	
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 4426	Perforations 4426	To 4426	
Type Completion (Describe) SINGLE		Type Fluid Production GAS, OIL		Pump Unit or Traveling Plunger? PUMPING		
Producing Thru (Annulus/Tubing) ANNULUS		% Carbon Dioxide .300		% Nitrogen 1.050	Gas Gravity- Gg .660	
Vertical Depth (ft) 4523		Pressure Taps FLANGE			Meter Run Size 3"	
Pressure Buildup: Shut in		4-7-10 10:00 A.M.		TAKEN	4-8-10 10:00 A.M.	
Well on Line: Started		4-8-10 10:00 A.M.		TAKEN	4-9-10 10:00 A.M.	

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	Wellhead Temp. t.	Casing Wellhead Press. (P _w) (P _t) (P _c)		Tubing Wellhead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						400	414			24.0	
Flow	.750	50.0	.10	60	60	55	69			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_R \times R_W}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
2.740	64.0	2.53	1.2309	1.0000	1.0060	8		.660

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 171.4 (P_w)² = 4.8 Pd = % (P_c - 14.4) + 14.4 = (Pa)² = 0.207
(Pd)² =

(P _c) ² - (P _a) ²	(P _c) ² - (P _w) ²	$\frac{(P_c^2 - P_a^2)}{(P_c^2 - P_w^2)}$ or $\frac{(P_c^2 - P_a^2)}{(P_c^2 - P_w^2)}$	LOG	Backpressure Curve Slope "n" ----- or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcfd
171.20	166.63	1.027	.0117	.850	.0100	1.023	8

OPEN FLOW

8

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 herein and that said report is true and correct. Executed this the 9th day of APRIL, 2010

Quanda Cox
Witness (if any)

RECEIVED

MAR 01 2011

[Signature]
Checked by

For Commission

KCC WICHITA

I declare under penalty or perjury under the laws of the state of Kansas that I am authorized to request exempt status under rule K.A.R. 82-3-304 on behalf of the operator CHIEFTIAN OIL COMPANY, INC. and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the AUFLEGER II-4 gas well on the grounds that said well:

(check one)

- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. _____
- is incapable of producing at a daily rate in excess of ²⁵⁰~~100~~ mcf/D

Date: 4-20-10

Signature: [Handwritten Signature]
Title: President

Instructions:

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under "observed surface data." Shut-in pressure shall thereafter be reported yearly in the same manner.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.