

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

FORM G-2  
(Rev. 8/98)

TYPE TEST:

- Open Flow  
 Deliverability

TEST DATE: 4-5&6-10

API No. 15-007-22862-00-00

Company CHIEFTIAN OIL COMPANY, INC.		Lease INSLEE			Well Number #1	
County BARBER		Location S/2 SE SE		Section TWP RING (E/W) 33-32-10W		Acres Attributed
Field SHARON		Reservoir MISSISSIPPI		Gas Gathering Connection LUMEN ENERGY		
Completion Date 1-25-05		Plug Back Total Depth 4855		Packer Set at NONE		
Casing Size 5.500	Weight 15.500	Internal Diameter 4.052	Set at 4899	Perforations 4450	To 4460	
Tubing Size 2.875	Weight 6.500	Internal Diameter 2.441	Set at 4500	Perforations 4450	To 4460	
Type Completion (Describe) SINGLE		Type Fluid Production OIL, WATER		Pump Unit or Traveling Plunger? PUMPING		
Producing Thru (Annulus/Tubing) ANNULUS		% Carbon Dioxide .090		% Nitrogen 1.611		Gas Gravity- Gg .651
Vertical Depth (ft) 4455		Pressure Taps FLANGE			Meter Run Size 2"	
Pressure Buildup: Shut in		4-5-10 10:00 A.M.		TAKEN		4-6-10 10:00 A.M.
Well on Line: Started		4-6-10 10:00 A.M.		TAKEN		4-7-10 10:00 A.M.

**OBSERVED SURFACE DATA**

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H <sub>2</sub> O	Flowing Temp. t.	Wellhead Temp. t.	Casing Wellhead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Tubing Wellhead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						700	714			24.0	
Flow	1.000	45.0	9.50	60	60	110	124			24.0	301 150 H <sub>2</sub> O

**FLOW STREAM ATTRIBUTES**

COEFFICIENT (P <sub>d</sub> ) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times R_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
5.073	59.0	23.67	1.2394	1.0000	1.0053	149		.651

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

(P<sub>c</sub>)<sup>2</sup> = 509.8      (P<sub>w</sub>)<sup>2</sup> = 15.8      Pd =      %      (P<sub>c</sub> - 14.4) + 14.4 =      (Pa)<sup>2</sup> = 0.207  
(Pd)<sup>2</sup> =

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{(P_c^2 - P_a^2)}{(P_c^2 - P_w^2)}$ 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
509.60	494.23	1.031	.0133	.538	.0072	1.017	152

OPEN FLOW      152      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 7th day of APRIL, 2010

Amanda Carr  
Witness (if any)

RECEIVED  
MAR 01 2011

[Signature]  
For Company  
Geski H. Alsham  
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 NSLEE II 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 <sup>250</sup>~~400~~ mcf/D

Date: 4-15-10

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.