

TYPE TEST:

- Open Flow  
 Deliverability

TEST DATE: 4-6 & 7-10 API No. 15-007-22070-0000

Company CHIEFTIAN OIL COMPANY, INC.		Lease MILLER TRUST			Well Number #1-33	
County BARBER	Location S/2 S/2 SE/4	Section 33	TWP 32S	RNG(E/W) 10W	Acres Attributed	
Field TRAFFAS EAST		Reservoir MISS & VIOLA		Gas Gathering Connection		
Completion Date 10-25-85		Plug Back Total Depth 4920		Packer/Set at NONE		
Casing Size 4.500	Weight 10.500	Internal Diameter 3.927	Set at 4917	Perforations 4792	To 4800	
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 4817	Perforations 4817	To 4817	
Type Completion (Describe) SINGLE		Type Fluid Production OIL/WATER		Pump Unit or Traveling Plunger? PUMPING		
Producing Thru (Annulus/Tubing) ANNULUS		% Carbon Dioxide .130		% Nitrogen 1.142		Gas Gravity- Gg .660
Vertical Depth (ft) 4920		Pressure Taps FLANGE		Meter Run Size 3"		
Pressure Buildup: Shut in 4-6-10 10:00 A.M.		TAKEN 4-7-10 10:00 A.M.		4-8-10 10:00 A.M.		
Well on Line: Started 4-7-10 10:00 A.M.		TAKEN 4-8-10 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	.375	50.0	2.50	60	60	110	124			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F <sub>b</sub> ) Mcfd	(METER) 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>
.685	64.0	12.65	1.2309	1.0000	1.0060	10		.660

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2 = 509.8$        $(P_w)^2 = 15.4$        $P_d =$       %       $(P_c - 14.4) + 14.4 =$        $(P_a)^2 = 0.207$   
 $(P_d)^2 = 0.207$

$(P_c)^2 - (P_a)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ or $\frac{P_a - P_w}{P_c - P_w}$	LOG	Backpressure Curve Slope "n" or Assigned Standard Slope	Antilog	Open Flow Deliverability = R x Antilog Mcfd
509.60	494.42	1.031	0.0131	.850	1.0112	11

OPEN FLOW 11 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 8th day of APRIL, 2010

Amanda Cox  
 Witness (if any)  
 For Commission

RECEIVED  
 MAR 01 2011

[Signature]  
 For Company  
Esther J. Alban  
 Checked by

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 **MILLER TRUST #1-33** 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** mcf/D

Date	Well Name	Operator	County	Production (mcf/D)	Shut-in Pressure (psi)	Surface Temperature (°F)	Other Data
4-15-01							

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.