

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(SEE INSTRUCTIONS ON REVERSE SIDE)

Type Test:

Open Flow

Test Date: 08/01/1998

API No. 15- 007-22467-00-00

Deliverability

Company		Lease			Well No.	
ONEOK Resources Company		Harbaugh A			2-21	
County	Location	Section	TWP	RNG(E/W)	ACRES Attributed	
Barber	1320' FSL & 660' FEL	21	33S	14W		
Field		Reservoir		Gas Gathering Connection		
Aetna		Mississippi		Kansas Gas Supply		
Completion Date		Plug Back Total Depth		Packer Set at		
02/24/1995		5105		None		
Casing Size	Weight	Internal Diameter	Set at	Perforations	To	
5-1/2"	14 ppf	5.012	5150	4642	4680	
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To	
2-3/8"	4.7 ppf	1.995"	4620			
Type of Completion (Describe)		Type of Fluid Production		Pump Unit or Traveling Plunger?		Yes / No
SINGLE GAS		Water		Yes		
Producing Thru (Annulus / Tubing)		% Carbon Dioxide		% Nitrogen		Gas Gravity
Annulus						0.6639
Vertical Depth (H)		Pressure Taps		(Meter Run) (Prover) Size		
4661		Flange		Meter 2"		
Pressure Buildup:		Shut in 07/28/1998		at 11:10 AM		TAKEN: 07/31/1998 AT 11:10 AM
Well on Line:		Started 07/31/1998		at 11:10 AM		TAKEN: 08/01/1998 AT 11:10 AM

### OBSERVED SURFACE DATA

Duration of Shut-in 72 hours

Static / Dynamic Property	Orifice Size inches	Circle one: Meter or Prover Pressure psig	Pressure Differential in (h) Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (Pw) or (Pt) or (Pc)		Tubing Wellhead Pressure (Pw) or (Pt) or (Pc)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						80.0	94.4	0.0	0.0	72.0	0.0
Flow	0.3750	48.0	7.0	76.0		69.0	83.4	0.0	0.0	24.0	0.0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (Fb) (Fp) Mcfpd	Circle one: Meter or Prover Pressure psia	Press Extension Square Root (Pm x hw)	Gravity Factor Fg	Flowing Temperature Factor Ft	Deviation Factor Fpv	Metered Flow R (Mcfpd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity Gm
0.686	62.4	20.9	1.227	0.9850	1.006	17.4	None	0.6639

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

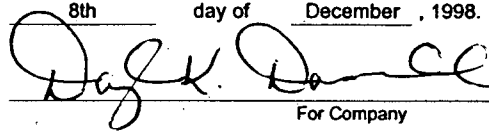
$(P_c)^2 = 8.9$      
  $(P_w)^2 = 7.0$      
  $P_d = \text{_____} \%$      
  $(P_c - 14.4) + 14.4 = \text{_____}$      
  $P_a^2 = 0.207$      
  $P_d^2 = \text{_____}$

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	Choose formula 1 or 2: 1. $(P_c)^2 - (P_a)^2$ 2. $(P_c)^2 - (P_d)^2$ divided by:	Log of formula 1. or 2. and divide by: $(P_c^2 - P_w^2)$	Backpressure Curve Slope = "n" or Assigned Standard Slope	$n \times \text{LOG} [ \ ]$	Antilog	Open Flow Deliverability Equals R x Antilog Mcfpd
8.704	1.956	4.450	0.648	0.647	0.420	2.627	46

Open Flow 46 Mcfpd @ 14.65 psia      Deliverability Mcfpd @ 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

8th day of December, 1998.

  
 For Company

Daryl K. Duvall

Checked By

Witness (if any)

For Commission

08-03-2002

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\*\*\*\*\*  
 G A S A N A L Y S I S R E P O R T  
 \*\*\*\*\*

COMPANY NAME	:	ONEOK RESOURCES CO.	ANALYSIS DATE	:	02/07/16
PLANT NUMBER	:	998 N/A	SAMPLE DATE	:	06-29-02
LEASE NAME	:	HARBAUGH A # 2	SAMPLE TEMP	:	90
LOCATION ID	:	PROD. DEPT.	SAMPLE PRES	:	29
EFFECTIVE DATE	:	02-07-01 SPOT	SAMPLE NUMBER	:	1625
			SAMPLED BY	:	OLDHAM
			FIELD GRAVITY	:	0.000
			FLOW RATE	:	0

=====	=====	=====	=====
C O M P O N E N T	Mole %	GPM @ 14.650	
=====	=====	=====	=====
Helium He	0.071		
Oxygen O2	0.004		
Hydro Sulfide H2S	0.000		
Carbon Dioxide CO2	0.152		
Nitrogen N2	1.473		
Methane C1	85.208		
Ethane C2	6.165	1.6389	
Propane C3	3.250	0.8900	
I-Butane IC4	0.466	0.1516	
N-Butane NC4	1.304	0.4089	
I-Pentane IC5	0.343	0.1249	
N-Pentane NC5	0.443	0.1596	
Hexane Plus C6+	1.121	0.4841	
	-----	-----	
Totals	100.000	3.8580	

=====	=====	=====	=====
BTU Values @ 14.650 60 F	Gallons Per Thousand		
=====	=====	=====	=====
BTU REAL DRY 1198.1217	C2 + GPM -	3.8580	
BTU IDEAL DRY 1194.4056	C3 + GPM -	2.2191	
BTU REAL WET 1177.1698	C4 + GPM -	1.3291	
BTU IDEAL WET 1173.5035	C5 + GPM -	0.7686	
SPECIFIC GRAVITY (REAL)	0.6955	DRY	
SPECIFIC GRAVITY (REAL)	0.6943	WET	
Z FACTOR	0.99690	DRY	
Z FACTOR	0.99689	WET	
26# GASOLINE GPM	1.1775		

COMMENT -

NOTE : Calculations based on 14.650 Pressure Base and 60 Temperature Base



## Kansas Corporation Commission

Bill Graves, Governor John Wine, Chair Cynthia L. Claus, Commissioner Brian J. Moline, Commissioner

Daryl Duvall  
ONEOK Resources Company  
P.O. Box 871  
Tulsa, OK. 74102-0871

October 29, 2002

Dear Mr. Duvall:

The recently submitted application for an annual open flow testing exemption (Form G-2) for the **Harbaugh "A" #2-21** located in Sec.21-33S-14W of Barber County has been reviewed by the Conservation Division staff. The indicated status has been conferred by the Commissioners or else the indicated corrective action needs to be taken in order to bring the gas well into full compliance:

- The annual exemption is hereby granted for the current calendar year or until the subject well no longer meets the eligibility criteria checked off on the backside of the G-2 form, whichever comes first.
- The request for an exemption is hereby denied. Contact the Wichita office to learn the reason(s). Please schedule an one-point, open flow test for this well as soon as possible. Otherwise, file an application for "special relief" from the Commission to excuse this well from testing on grounds other than those listed on the backside of the G-2.
- The exemption will be granted upon the insertion of the gas well's shut-in pressure in the box provided on the front side of the form and return of the completed form to this office.

The minimum buildup time for taking a shut-in pressure reading is 24 hours. Operators of offsetting wells have the right to witness the measurement of your well's shut-in pressure. It isn't required for a Corporation Commission Field Agent to witness the shut-in pressure.

In the event of a sale/transfer, the testing exemption goes with the well/lease.

If the exemption has been denied, failure to perform the stipulated open flow test within thirty (30) days of receiving this letter could result in the shutting in of your well and the imposition of a \$500 penalty fine. All questions concerning this determination of eligibility for the testing exemption pertaining to the well cited above should be directed to the undersigned.

Sincerely,

*Jim Hemmen*

Jim Hemmen  
Research Analyst  
Production Department

MEASURING STATION REPORT

- NEW
- CHANGE
- CALIBRATION
- O.P. INSPECTION
- RECONNECT
- INACTIVE
- PERM. D.O.L.

STATION NO. \_\_\_\_\_ ELE.# \_\_\_\_\_  
 STATION NAME HARBAUGH A#2-21  
 PRODUCER / OPERATOR ONEOK Resources CO  
 GATHERING SYSTEM OWN TYPE MEASUREMENT  Oil Well Gas  Gas Well Gas  Liquid  Other

DATE 6/29/02  
 TIME 12 49

**RECORDING DEVICE**

MAKE

Barton  Daniels  
 Foxboro  Applied  
 Other  American

S/N 202E-397164

TYPE

Bellows  2 Pen  
 Mercury  3 Pen  
 Electronic

**METER TEST**

Diff. Found 2 1/2 Diff. Left 2 1/2  
 Zero @ WP 0 Zero @ AP \_\_\_\_\_  
 WP Zero Reset  Yes  No  
 Pen Arc  OK  Reset  
 Time Lag  OK  Reset  
 Leaks Found  Yes  No  
 Leaks Repaired  Yes  No\*

**GRAVITY / DENSITY**

Effective Period  
7.1.02 1.1.03  
 from to

Rangex  
 Analysis

**DIFFERENTIAL RANGE**

0-20"  0-100"  
 0-50"  0-200"  
 Other \_\_\_\_\_  0-250"

**PRESSURE RANGE**

0-50#  0-500#  
 0-100#  0-1000#  
 0-250#  0-1500#  
 Other \_\_\_\_\_

**CHART ROTATION**

24 Hour  8 Day  
 7 Day  31 Day  
 Other \_\_\_\_\_

**DIFFERENTIAL TEST**

Found in Calibration  Yes  No  
 Left in Calibration  Yes  No\*

Cal	Mtr	Cal	Mtr
100	100	<b>SAME</b>	
70	70		
50	50		
30	30		
10	10		
0	0		

**SAMPLE**

Yes  No  UPT 1625  
 Cylinder No. \_\_\_\_\_

**ANALYSIS DATA**

H2S \_\_\_\_\_ % CO2 \_\_\_\_\_ %  
 N2 \_\_\_\_\_ % O2 \_\_\_\_\_ %  
 Total Acid Gas \_\_\_\_\_ %  
 Air \_\_\_\_\_ % Other \_\_\_\_\_ %

**TEMPERATURE RECORDER**

MAKE

American  EFR  
 Barton  Taylor  
 Foxboro  Other \_\_\_\_\_

RANGE

0-120°  0-200°  
 0-150°  10-130°  
 Other \_\_\_\_\_  -40 - 140°

**STATIC TEST**

Static Calibration:  Psig  Psia

11.4	14.4
29	
40.4	
43.4	

Test Gauge Pressure \_\_\_\_\_  
 Static Pressure Found \_\_\_\_\_  
 Static Pressure Left \_\_\_\_\_

**TEMPERATURE RECORDER TEST**

Thermometer NUT \_\_\_\_\_  
IN SERVICE  
 Recorder Found \_\_\_\_\_  
 Recorder Left \_\_\_\_\_

**COMPRESSION TEST**

Cu. Ft. Actually Run \_\_\_\_\_  
 Temp. Gas °F \_\_\_\_\_  
 Pressure Base \_\_\_\_\_  
 Corr. Cu. Ft. @ Press. Base and 60°F \_\_\_\_\_  
 C. C. Recovery Gross \_\_\_\_\_  
 Temp. Gross °F \_\_\_\_\_  
 G. P. M. Gross \_\_\_\_\_  
 C. C. Recovery @ 60°F \_\_\_\_\_


**PRIMARY ELEMENT DETAIL**

Tube Size 2.067 Schedule \_\_\_\_\_ Orifice Size 0.375  
 Flange Taps  Pipe Taps Miked Line Size \_\_\_\_\_ Miked Orifice Size 0.375

Static Connect: \_\_\_\_\_  
 Upstream \_\_\_\_\_  
 Downstream \_\_\_\_\_  
 Average \_\_\_\_\_

Annubar Model: \_\_\_\_\_  
 Temperature at filling AD 96 °F

**ORIFICE PLATE CHANGE / INSPECTION**

GPM NET 

Remove \_\_\_\_\_  
 Installed \_\_\_\_\_  
 Inspected Yes-OK

REMARKS PUT ON NEW STATIC PEN  
CARTRIDGE & DIFF PEN CARTRIDGE  
SET CORRECT STATIC PSIA ZERO

**ORIFICE FITTING**

Type:  Senior  Junior  Simplex  Flange

WITNESS \_\_\_\_\_ FOR \_\_\_\_\_ TESTER Les Oldham

MEASURING STATION REPORT

- NEW
- CHANGE
- CALIBRATION
- O.P. INSPECTION
- RECONNECT
- INACTIVE
- PERM. D.O.L.

STATION NO. \_\_\_\_\_ ELE.# \_\_\_\_\_  
 STATION NAME HARBROUGH AFF 2  
 PRODUCER / OPERATOR ONEOK Resources CO  
 GATHERING SYSTEM OWN TYPE MEASUREMENT  Oil Well Gas  Gas Well Gas  Liquid  Other

DATE 6/25/01  
 TIME 1547

**RECORDING DEVICE**  
**MAKE**  
 Barton  Daniels  
 Foxboro  Applied  
 Other  American  
 S/N 202E-397164

**METER TEST**  
 Diff. Found 5 Diff. Left 5  
 Zero @ WP 0 Zero @ AP 0  
 WP Zero Reset  Yes  No  
 Pen Arc  OK  Reset  
 Time Lag  OK  Reset  
 Leaks Found  Yes  No  
 Leaks Repaired  Yes  No\*

**GRAVITY / DENSITY**  
 Ranarex  
 Analysis  
 Effective Period  
7/1/01 1/1/02  
 from to

**TYPE**  
 Bellows  2 Pen  
 Mercury  3 Pen  
 Electronic

**DIFFERENTIAL TEST**  
 Found in Calibration  Yes  No  
 Left in Calibration  Yes  No\*

**SAMPLE**  
 Yes  No  UPT  
 Cylinder No. 2039

**DIFFERENTIAL RANGE**  
 0-20"  0-100"  
 0-50"  0-200"  
 Other \_\_\_\_\_  0-250"

Cal		Mtr	
100	100		
70	70		
50	50		
30	30		
10	10		
0	0		

**SAMPLE**

**ANALYSIS DATA**  
 H2S \_\_\_\_\_ % CO2 \_\_\_\_\_ %  
 N2 \_\_\_\_\_ % O2 \_\_\_\_\_ %  
 Total Acid Gas \_\_\_\_\_ %  
 Air \_\_\_\_\_ % Other \_\_\_\_\_ %

**PRESSURE RANGE**  
 0-50#  0-500#  
 0-100#  0-1000#  
 0-250#  0-1500#  
 Other \_\_\_\_\_

**CHART ROTATION**  
 24 Hour  8 Day  
 7 Day  31 Day  
 Other \_\_\_\_\_

**STATIC TEST**  
 Static Calibration:  Psig  Psia 14.2 13.2  
 Test Gauge Pressure 28  
 Static Pressure Found 42  
 Static Pressure Left 41.2

**COMPRESSION TEST**  
 Cu. Ft. Actually Run \_\_\_\_\_  
 Temp. Gas °F \_\_\_\_\_  
 Pressure Base \_\_\_\_\_  
 Corr. Cu. Ft. @ Press. Base and 60°F \_\_\_\_\_  
 C. C. Recovery Gross \_\_\_\_\_  
 Temp. Gross °F \_\_\_\_\_  
 G. P. M. Gross \_\_\_\_\_  
 C. C. Recovery @ 60°F \_\_\_\_\_

**TEMPERATURE RECORDER**  
**MAKE**  
 American  EFR  
 Barton  Taylor  
 Foxboro  Other \_\_\_\_\_

**TEMPERATURE RECORDER TEST**  
 Thermometer NO TEMP.  
 Recorder Found pen  
 Recorder Left \_\_\_\_\_

**RANGE**  
 0-120°  0-200°  
 0-150°  10-130°  
 Other \_\_\_\_\_  -40 - 140°

**PRIMARY ELEMENT DETAIL**  
 Tube Size 2.067 Schedule \_\_\_\_\_ Orifice Size 0.375  
 Flange Taps  Pipe Taps  
 Miked Line Size \_\_\_\_\_ Miked Orifice Size \_\_\_\_\_  
 Static Connect:  
 Upstream  
 Downstream  
 Annubar Model: \_\_\_\_\_ Average \_\_\_\_\_  
 Temperature at miking 91 °F

GPM NET

REMARKS Plate Inspection

**ORIFICE PLATE CHANGE / INSPECTION**  
 Remove \_\_\_\_\_  
 Installed \_\_\_\_\_  
 Inspected Yes OK

**ORIFICE FITTING**  
 Type:  Senior  Junior  Simplex  Flange

WITNESS \_\_\_\_\_ FOR \_\_\_\_\_ TESTER Leo Allen

01-04-2002

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\*\*\*\*\*  
 G A S A N A L Y S I S R E P O R T  
 \*\*\*\*\*

Company Name : ONEOK RESOURCES CO.                       Sample Pres : 25.00  
 Lease Number : N/A   Sample Temp : 71  
 Lease Name : HARBAUGH A # 2-21                       Sample Date : 12/01/01  
 Location ID : AMBER                                     Analysis Date : 01/12/19  
   Sample Number : 0

Cylinder # : 1461

Sampled By : OLDHAM

COMPONENT		Mole %	GPM 14.65	GPM 14.73
Helium	He	0.068		
Oxygen	O2	0.000		
Carbon Dioxide	CO2	0.158		
Nitrogen	N2	1.462		
Methane	C1	86.006		
Ethane	C2	5.729	1.5230	1.5314
Propane	C3	3.107	0.8508	0.8555
I-Butane	IC4	0.442	0.1438	0.1446
N-Butane	NC4	1.219	0.3822	0.3843
I-Pentane	IC5	0.335	0.1220	0.1227
N-Pentane	NC5	0.434	0.1563	0.1572
Hexane Plus	C6+	1.040	0.4492	0.4517
Totals		100.000	3.6273	3.6474

Calculated BTU Values	14.65 PB	14.73 PB	SPEC GRAV
Gross Dry BTU	1186.3578	1192.8827	0.6879
Gross Wet BTU	1165.5965	1172.0073	
Gallons Per Thousand	14.65 PB	14.73 PB	Z FACTOR
C2 + GPM	3.6273	3.6474	0.9970
C3 + GPM	2.1043	2.1160	
C4 + GPM	1.2535	1.2605	
C5 + GPM	0.7275	0.7316	

COMMENT :

Fp= 1.0106

Ft= 0.9404

NOTE : Calculations based on 60 Temperature Base



Trident NGL, Inc.  
MEASURING STATION REPORT

- NEW
- CHANGE
- CALIBRATION
- O.P. INSPECTION
- BOTH
- RECONNECT
- INACTIVE
- PERM. D.O.L.

STATION NO: \_\_\_\_\_  
 STATION NAME HARBAUGH A 2-2/  
 PRODUCER / OPERATOR ONEOK Resources CO  
 GATHERING SYSTEM own TYPE MEASUREMENT  Oil Well Gas  Gas Well Gas  Liquid  Other

DATE 12/2/01  
 TIME 14:19

RECORDING DEVICE	METER TEST	GRAVITY / DENSITY
<b>MAKE</b> <input checked="" type="checkbox"/> Barton <input type="checkbox"/> Daniels <input type="checkbox"/> Foxboro <input type="checkbox"/> Applied <input type="checkbox"/> Other <input type="checkbox"/> American S/N <u>202E-397164</u>	Diff. Found <u>42</u> Diff. Left <u>4</u> Zero @ WP _____ Zero @ AP _____ WP Zero Reset <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Pen Arc <input checked="" type="checkbox"/> OK <input type="checkbox"/> Reset Time Lag <input checked="" type="checkbox"/> OK <input type="checkbox"/> Reset Leaks Found <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Leaks Repaired <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No*	<input type="checkbox"/> Ranarex <input checked="" type="checkbox"/> Analysis Effective Period <u>1.1.02</u> <u>7.1.02</u> from to

DIFFERENTIAL RANGE	DIFFERENTIAL TEST	SAMPLE																												
<b>TYPE</b> <input checked="" type="checkbox"/> Bellows <input checked="" type="checkbox"/> 2 Pen <input type="checkbox"/> Mercury <input type="checkbox"/> 3 Pen <input type="checkbox"/> Electronic	<b>DIFFERENTIAL TEST</b> Found in Calibration <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Left in Calibration <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> UPT Cylinder No. <u>1461</u>																												
<b>DIFFERENTIAL RANGE</b> <input type="checkbox"/> 0-20" <input checked="" type="checkbox"/> 0-100" <input type="checkbox"/> 0-50" <input type="checkbox"/> 0-200" <input type="checkbox"/> Other _____ <input type="checkbox"/> 0-250"	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Cal</th> <th>Mtr</th> <th>Cal</th> <th>Mtr</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>100</td> <td></td> <td></td> </tr> <tr> <td>70</td> <td>70</td> <td></td> <td></td> </tr> <tr> <td>50</td> <td>50</td> <td></td> <td></td> </tr> <tr> <td>30</td> <td>30</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>10</td> <td></td> <td></td> </tr> <tr> <td>0</td> <td>0</td> <td></td> <td></td> </tr> </tbody> </table>	Cal	Mtr	Cal	Mtr	100	100			70	70			50	50			30	30			10	10			0	0			<b>ANALYSIS DATA</b> H2S _____ % CO2 _____ % N2 _____ % O2 _____ % Total Acid Gas _____ % Air _____ % Other _____ %
Cal	Mtr	Cal	Mtr																											
100	100																													
70	70																													
50	50																													
30	30																													
10	10																													
0	0																													

TEMPERATURE RECORDER	COMPRESSION TEST
<b>MAKE</b> <input type="checkbox"/> American <input type="checkbox"/> EFR <input checked="" type="checkbox"/> Barton <input type="checkbox"/> Taylor <input type="checkbox"/> Foxboro <input type="checkbox"/> Other _____	Cu. Ft. Actually Run _____ Temp. Gas °F _____ Pressure Base _____ Corr. Cu. Ft. @ Press. Base and 60°F _____ C. C. Recovery Gross _____ Temp. Gross °F _____ G. P. M. Gross _____ C. C. Recovery @ 60°F _____
<b>RANGE</b> <input type="checkbox"/> 0-120° <input type="checkbox"/> 0-200° <input checked="" type="checkbox"/> 0-150° <input type="checkbox"/> 10-130° <input type="checkbox"/> Other _____ <input type="checkbox"/> -40 - 140°	<b>STATIC TEST</b> Static Calibration: <input type="checkbox"/> Psig <input checked="" type="checkbox"/> Psia <u>13.2</u> Test Gauge Pressure <u>35</u> Static Pressure Found <u>38.2</u> Static Pressure Left <u>38.2</u>
<b>PRIMARY ELEMENT DETAIL</b> Tube Size <u>2.067</u> Schedule _____ Orifice Size <u>8.375</u> <input checked="" type="checkbox"/> Flange Taps <input type="checkbox"/> Pipe Taps Miked Line Size _____ Miked Orifice Size _____ Static Connect: _____ <input type="checkbox"/> Upstream _____ <input checked="" type="checkbox"/> Downstream _____ Annubar Model: _____ Average _____ Temperature at miking <u>71</u> °F	<b>TEMPERATURE RECORDER TEST</b> <u>NOT IN SERVICE</u> Thermometer _____ Recorder Found _____ Recorder Left _____

ORIFICE PLATE CHANGE / INSPECTION	GPM NET	
Remove _____ Installed _____ Inspected _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">           GPM NET            [         ]         </td> </tr> </table>	GPM NET [         ]
GPM NET [         ]		

ORIFICE FITTING	REMARKS
Type: <input checked="" type="checkbox"/> Senior <input type="checkbox"/> Junior <input type="checkbox"/> Simplex <input type="checkbox"/> Flange	<u>PUT ON NEW DIFF. PEN</u> <u>CARTRIDGE</u>

WITNESS \_\_\_\_\_  
 FOR \_\_\_\_\_ TESTER Les Oldham



## Kansas Corporation Commission

Bill Graves, Governor John Wine, Chair Cynthia L. Claus, Commissioner Brian J. Moline, Commissioner

Daryl K. Duvall  
ONEOK resources Company  
P.O. Box 871  
Tulsa, OK. 74102-0871

September 15, 1999  
Dear Mr. Duvall:

The recently submitted application for an annual open flow testing exemption (Form G-2) for the **Harbaugh "A" #2-21** located in Sec. 21-33S-14W of Barber County has been reviewed by the Conservation Division staff. The described status has been conferred by the Commissioners or else the indicated action needs to be taken in order to bring the gas well into full authorization and/or compliance:

- The exemption is hereby granted for one year from today's date or until the gas well no longer meets the eligibility criteria on the backside of the G-2 form, whichever comes first.
- The request for an exemption is hereby denied. Contact this Wichita office to learn the reason(s). Please schedule an one-point open flow test for this well as soon as possible or else apply for "special relief" from Commission regulation K.A.R. 82-3-304.
- The exemption will be granted upon the insertion of the well's shut-in pressure into the labeled box on the front side of the G-2 form, the affixing of your signature at the bottom, and the immediate return of the form to this office.

The minimum buildup time leading up to a shut-in pressure reading is 24 hours. Operators of offsetting wells have the right to witness the measurement of your well's shut-in pressure. A Corporation Commission Field Agent doesn't have to witness the shut-in pressure.

In the event of a sale/transfer, the testing exemption goes with the well for the duration of the year. The exemption is forfeited in the event of any enhancement of or changes to the well.

If the exemption has been denied, failure to perform the stipulated open flow test within thirty (30) days of receiving this letter could result in the sealing of your well and the imposition of a \$500 penalty fine. All questions concerning this determination of eligibility for the testing exemption pertaining to the well cited above should be directed to the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Jim Hemmen".

Jim Hemmen  
Research Analyst





## Kansas Corporation Commission

Bill Graves, Governor John Wine, Chair Susan M. Seltsam, Commissioner Cynthia L. Claus, Commissioner

Daryl K. Duvall  
ONEOK Resources Company  
P.O. Box 871  
Tulsa, OK. 74102-0871

December 17, 1998

Dear Mr. Duvall :

The recently submitted application for an annual open flow testing exemption (Form G-2) for the Harbaugh "A" #2-21 located in Sec.21-33S-14W of Barber County has been reviewed by the Conservation Division staff. The described status has been conferred by the Commissioners or else the indicated action needs to be taken in order to bring the gas well into full compliance:

- The exemption is hereby granted for one year from today's date or until the gas well no longer meets the eligibility criteria on the backside of the G-2 form, whichever comes first.
- The request for an exemption is hereby denied.. Contact the Wichita office to learn the reason(s). Please schedule an one-point open flow test for the subject well as soon as possible or else apply for "special relief" from Commission regulation K.A.R. 82-3-304.
- The exemption will be granted upon the insertion of the well's shut-in pressure in the labeled box on the front side of the G-2 form, the affixing of your signature at the bottom, and the return of the form to this office.

The minimum buildup time for taking a shut-in pressure reading is 24 hours. Operators of offsetting wells have the right to witness the measurement of your well's shut-in pressure. It's isn't required for a Corporation Commission Field Agent to witness the shut-in pressure.

In the event of a sale/transfer, the testing exemption goes with the well for the duration of the year.

If the exemption has been denied, failure to perform the stipulated open flow test within thirty (30) days of receiving this letter could result in the sealing of your well and the imposition of a \$500 penalty fine. All questions concerning this determination of eligibility for the testing exemption pertaining to the well cited above should be directed to the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Jim Hemmen".

Jim Hemmen  
Research Analyst  
Production Department