

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

Type Test:

Open Flow

Deliverability *24hr skatln test*

Test Date: 9/14/06

API No. 15  
15-023-20356 0000

Company American Warrior Inc.			Lease Rath		Well Number #2
County Cheyenne	Location C-SW-NE-NW	Section 23	TWP 2S	RNG (E/W) 42W	Acres Attributed
Field Cherry Creek		Reservoir Niob	Gas Gathering Connection Northern		
Completion Date 3/12/99		Plug Back Total Depth 1800'	Packer Set at		
Casing Size 41/2	Weight 9.5	Internal Diameter 4.090	Set at 1832'	Perforations 1636'	To 1656'
Tubing Size 23/8	Weight 4.70	Internal Diameter 1.995	Set at 1798'	Perforations	To
Type Completion (Describe) Gas	Type Fluid Production Formation water		Pump Unit or Traveling Plunger? Yes / No Pumping unit		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub>	
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size	

Pressure Buildup: Shut in 9/14 20 06 at 12:30PM (AM) (PM) Taken 9/15 20 06 at 12:35PM (AM) (PM)

Well on Line: Started \_\_\_\_\_ 20 \_\_\_\_ at \_\_\_\_\_ (AM) (PM) Taken \_\_\_\_\_ 20 \_\_\_\_ at \_\_\_\_\_ (AM) (PM)

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						213#					
Flow						30#					

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207 (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow 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 therein, and that said report is true and correct. Executed this the 22 day of November

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NOV 27 2006  
HAYS, KS

Witness (if any) \_\_\_\_\_ For Company *Body Smith* For Commission \_\_\_\_\_ Checked by *Services Inc.*

I declare under penalty of 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 American Warrior Inc.

and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

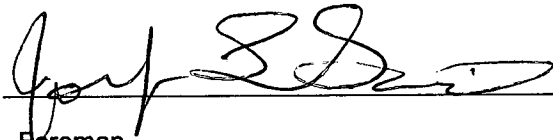
I hereby request a one-year exemption from open flow testing for the Rath #2 gas well on the grounds that said well:

(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 not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: 11/22/06

Signature:   
Title: Foreman

**Instructions:** If a gas well meets one of 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 claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been 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 for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

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**Yearly and monthly production**



**RATH #2 Lease**

**Operator:** American Warrior, Inc.  
**Location:** SE SW NE NW T2S, R42W, Sec. 23  
**KS Dept. of Revenue Lease Code:** 222641  
**Field:** Cherry Creek Niobrara Gas Area  
**County:** Cheyenne  
**Producing Zone:**  
**Well Data:**

T2S R42W, Sec. 23, SE SW NE NW

**Lease:** Rath 2  
**Operator:** Pelican Hill Oil & Gas  
 15-023-20356

**Annual Gas Production, (mcf)**

Year	Production	Wells
<b>Production Charts</b>		
Simple JPEG chart    Flash Chart		
1999	2,748	1
2000	1,225	1
2001	655	1
2002	329	1

**Sample Monthly Gas Production, (mcf)**  
(from 2001)

Year	Month	Production	Wells	Purchaser
2001	1	96	1	Pelican Hill Oil & Gas, Inc. (100%)
2001	2	60	1	Pelican Hill Oil & Gas, Inc. (100%)
2001	3	96	1	Pelican Hill Oil & Gas, Inc. (100%)
2001	4	66	1	Pelican Hill Oil & Gas, Inc. (100%)
2001	5	70	1	Pelican Hill Oil & Gas, Inc. (100%)
2001	6	80	1	Pelican Hill Oil & Gas, Inc. (100%)
2001	7	71	1	Pelican Hill Oil & Gas, Inc. (100%)
2001	8	61	1	Pelican Hill Oil & Gas, Inc. (100%)
2001	9	48	1	Pelican Hill Oil & Gas, Inc. (100%)
2001	10	3	1	Pelican Hill Oil & Gas, Inc. (100%)
2001	11	4	1	Pelican Hill Oil & Gas, Inc. (100%)
2002	2	43	1	Pelican Hill Oil & Gas, Inc. (100%)
2002	3	53	1	Pelican Hill Oil & Gas, Inc. (100%)
2002	4	48	1	Pelican Hill Oil & Gas, Inc. (100%)

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2002	5	49	1	Pelican Hill Oil & Gas, Inc. (100%)
2002	6	48	1	Pelican Hill Oil & Gas, Inc. (100%)
2002	7	43	1	Pelican Hill Oil & Gas, Inc. (100%)
2002	8	45	1	Pelican Hill Oil & Gas, Inc. (100%)

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Pre-1987 cumulative data and monthly volume data is provided under license agreement to the KGS by IHS Energy. As such, it may be reviewed and used for public service and research purposes. It may not be downloaded or used for purposes of re-packaging, reselling or dissemination to third parties.

Kansas Geological Survey  
Comments to [webadmin@kgs.ku.edu](mailto:webadmin@kgs.ku.edu)  
URL=<http://www.kgs.ku.edu/Magellan/Field/lease.html>  
Programs Updated May 23, 2005  
Data from Kansas Dept. of Revenue files quarterly.

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FILE COPY |

3,644

June 6, 2006

Herb Deines  
District Supervisor  
Kansas Corporation Commission  
2301 E. 13<sup>th</sup>  
Hays, Kansas 67601

RE: Rath 2  
TA'D (API #015-023-20,356)  
Sec. 23-2-42 Cheyenne County, KS

Dear Mr. Deines:

I want to let you know that the above-referenced ~~TA'D~~ *back in production* It is NO longer Temporary Abandoned.

If you have any questions or concerns, please call me at 620-275-2963.

Sincerely,

Nancy E. Davis  
Compliance Coordinator

NED

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**American Warrior, Inc.**

P.O. Box 399 • Garden City, Kansas 67846 • (620) 275-9231

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

TEMPORARY ABANDONMENT WELL APPLICATION

All Requested Information Must Be Shown

Form CP-111  
October 2004  
Form must be Typed  
In all applications complete  
other side - form must be  
signed and notarized

Date: 11-22-05  
Operator License #: 4058  
Operator Name: American Warrior, Inc.  
Mailing Address: P. O. Box 399  
City / State: Garden City, KS Zip: 67846  
Contact Person: Joe Smith Phone: 620-275-2963  
Purchaser (if known) Old: \_\_\_\_\_ New: NCRA

Lease Name: Rath Sec. 23 Twp. 2 R. 42  E  W County: Cheyenne  
Well#: 2 Spot Location: C - SW - NE - NW 1130 Feet from  S /  N Line of Section  
API NO. 15 - 023-20,356-00-00 1830 Feet from  E /  W Line of Section  
Type of Well: (mark one)  Oil  Gas  SWD  ENHR  WSW  Other \_\_\_\_\_  
Total Depth: 1835' Date Drilled: 2-19-99 Date Shut-In: 11-3-03  
Docket No. If  SWD or  ENHR: \_\_\_\_\_

Surface Casing

Other Casing

Temporary Abandonment	Plug Back Depth	Plug Back Method	Depth To Fluid From Surface	GL / DF / KB Evaluation	Size	Depth	Cement Amount	Condition of Casing	Size	Depth	Cement Amount	Condition of Casing
	1800'	Cement	1700'	3720'KB	8-5/8"	361'	210sx	Good	4-1/2"	1832'	125sx	Good
Reason for TA request: <u>Waiting on Work Over</u>												

Depth and Type of Tools / Junk in Hole: None  
Type Completion: ALT. I  ALT. II.  Depth: \_\_\_\_\_ Cement Amounts: \_\_\_\_\_  
Tubing in Hole: 23/8 Inch at: 1750' Feet  
Packer Type: \_\_\_\_\_ Size: \_\_\_\_\_ Inch Set at: \_\_\_\_\_ Feet

Geological Data: Formation Name Formation Top Formation Base  
1. NIOB **RECEIVED** At: 1636' to 1656' Feet Perforation  or Open Hole   
2. **NOV 29 2006** At: \_\_\_\_\_ to \_\_\_\_\_ Feet Perforation  or Open Hole   
3. **KCC KCC WICHITA** At: \_\_\_\_\_ to \_\_\_\_\_ Feet Perforation  or Open Hole

Orig TADt. 12-8-2003  
TA Apprv Dt. 11-29-2005  
TA Expir Dt. 12-8-2006

Do NOT write in this space - KCC USE ONLY  
Date Tested: NOV 29 2005 Results: \_\_\_\_\_ Date Plugged: \_\_\_\_\_ Date Repaired: \_\_\_\_\_ Date Put Back in Service: \_\_\_\_\_  
Review Completed by: HAYS, KS Comments: \_\_\_\_\_ TA Approved: Yes  Denied

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Complete below for all applications for temporary abandonment.

UNDER PENALTY OF PERJURY I HEREBY ATTEST THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Signature:

*Nancy E. Davis*

Title:

Compliance Coordinator

Subscribed and Sworn to before Me this

*29th*

Day of

*November*

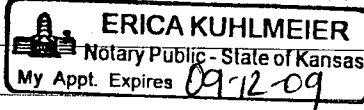
, 20 *05*

Notary Public:

*Erica Kuhlmeier*

Date Commission Expires:

*09-12-09*



Mail to the appropriate KCC - Conservation Division District Office:

KCC District Office #1 - 210 E. Frontview, Suite A, Dodge City, KS 67801	Phone 620.225.8888
KCC District Office #2 - 3450 N. Rock Road, Building 600, Suite 601, Wichita, KS 67226	Phone 316.630.4000
KCC District Office #3 - 1500 SW Seventh Street, Chanute, KS 66720	Phone 620.432.2300
KCC District Office #4 - 2301 E. 13th Street, Hays, KS 67601-2651	Phone 785.625.0550