

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

FEB 15 2008  
**ORIGINAL**  
Form ACO-1  
September 1999  
Form Must Be Typed  
CONSERVATION DIVISION  
WICHITA, KS

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Operator: License # 4058  
Name: American Warrior, Inc.  
Address: P. O. Box 399  
City/State/Zip: Garden City, KS 67846  
Purchaser: N/A  
Operator Contact Person: Kevin Wiles, Sr.  
Phone: (620) 275-2963  
Contractor: Name: Duke Drilling Co., Inc.  
License: 5929  
Wellsite Geologist: James Dilts

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SIOW     Temp. Abd.  
 Gas     ENHR     SIGW  
 Dry     Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to Enhr./SWD  
 Plug Back     Plug Back Total Depth  
 Commingled    Docket No. \_\_\_\_\_  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_  

<u>9-27-07</u>	<u>10-09-07</u>	<u>1-25-08</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 077-21,593 -00-00  
County: Harper  
W/2 SE Sec. 21 Twp. 32 S. R. 7  East  West  
1273 FSL feet from S / N (circle one) Line of Section  
2070 FEL feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Burkholder B. Well #: 1-21  
Field Name: WILDCAT  
Producing Formation: MISS.  
Elevation: Ground: 1390' Kelly Bushing: 1401'  
Total Depth: 4867' Plug Back Total Depth: 4550'  
Amount of Surface Pipe Set and Cemented at 346' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_<sup>sq cmt.</sup>  
Alt-1 Dlg - 2/2/08

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content 11,000 ppm Fluid volume 500 bbls  
Dewatering method used Hauled Off Site  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: Messinger Pet  
Lease Name: Nicholas SWD License No.: 4706  
Quarter NE Sec. 20 Twp. 30 S. R. 8  East  West  
County: Kingman Docket No.: D-27,434

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]  
Title: Compliance Coordinator Date: 2-14-08

Subscribed and sworn to before me this 14<sup>th</sup> day of February  
20 08  
Notary Public: [Signature]  
Date Commission Expires: 09-22-09

  
ERICA KUHLMIEIER  
Notary Public - State of Kansas  
My Appt. Expires 09-22-09

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
 If Denied, Yes  Date: 2/14/08  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: American Warrior, Inc. Lease Name: Burkholder B. Well #: 1-21  
 Sec. 21 Twp. 32 S. R. 7  East  West County: Harper

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

Borehole Compensated Sonic Log, Dual  
 Compensated Porosity Log, Microresistivity Log,  
 Dual Induction Log, Sonic Cement Bond Log

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum

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CONSERVATION DIVISION  
 WICHITA, KS

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12-1/4"	8-5/8"	24#	346'	60/40 POZ	200 SX	3% cc 2% gel
Production Pipe	7-7/8"	5-1/2'	17#	4592'	AA2	165	1/4 # Flocele

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4390' TO 4398'	NONE	Same

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	4398'	NONE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.	Producing Method				
SI	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	SHUT IN	SHUT IN	SHUT IN		

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled

Production Interval  Other (Specify) \_\_\_\_\_



**FIELD ORDER** 16443

Subject to Correction

Date <b>10-8-07</b>	Customer ID <b>9</b>	Lease <b>B. Burkholder</b>	Well # <b>-21</b>	Legal <b>21-325-7W</b>
		County <b>Harper</b>	State <b>KS.</b>	Station <b>Pratt</b>
C H A R G E		Depth <b>Corated</b>	Formation	Shoe Joint <b>20 Feet</b>
<b>American Warrior, Incorporated</b>		Gas <b>5 1/2" 17Lb.</b>	Casing Depth <b>4,578 Ft.</b>	TD <b>4,867 Ft.</b>
		Customer Representative <b>Joe Smith</b>	Treater <b>Clarence R. Messick</b>	Job Type <b>C.W.W.-Long String</b>
AFE Number	PO Number	Materials Received by <b>X</b> <i>[Signature]</i>		

Station Code	Product Code	QUANTITY	MATERIALS, EQUIPMENT, and SERVICES USED	UNIT PRICE	AMOUNT
P	D205	165sk.	AA-2		\$ 2,727.45
P	D203	25sk.	60/40 Poz	RECEIVED KANSAS CORPORATION COMMISSION	\$ 267.75
<b>FEB 15 2008</b>					
P	C195	125Lb	FLA-322	CONSERVATION DIVISION WICHITA, KS	\$ 1,031.25
P	C221	868Lb	Salt (Fine)		\$ 217.00
P	C243	39Lb	Defoamer		\$ 134.55
P	C244	47Lb	Cement Friction Reducer		\$ 282.00
P	C312	117Lb	Gas Blok		\$ 602.55
P	C321	825Lb	Gilsonite		\$ 552.75
P	C304	1,000Gal	Super Flush II		\$ 1,530.00
P	F101	6ea	Turbolizer, 5 1/2"		\$ 445.20
P	F121	1ea	Basket, 5 1/2"		\$ 268.50
P	F171	1ea	Latch Down Plug and Baffle, 5 1/2"		\$ 250.00
P	F274	1ea	Weatherford Packer Shoe, 5 1/2"		\$ 3,700.00
P	E100	110mi	Heavy Vehicle Mileage, 1-Way		\$ 550.00
P	E101	55mi	Pickup Mileage, 1-Way		\$ 165.00
P	E104	490+tm	Bulk Delivery		\$ 783.20
P	E107	190sk	Cement Service Charge		\$ 285.00
P	E891	1ea	Service Supervisor		\$ 150.00
P	R210	1ea	Cement Pumper : 4,501 Ft. To 5,000 Ft.		\$ 1,827.00
P	R701	1ea	Cement Head Rental		\$ 250.00
Discounted Price =					\$ 13,456.13
Plus Taxes					

# BASIC

energy services, L.P.

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## TREATMENT REPORT

CONSERVATION DIVISION  
WICHITA, KS Date

Customer American Warrior, Incorporated Lease No.   
 Lease B. Burkholder Well # 1-21   
 Field Order # 16,443 Station Pratt Casing 17Lb. Depth 4,578ft. County Harper State KS   
 Type Job C.N.W. - Long String Formation Legal Description 21-325-7W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME			
Casing Size 5 1/2" 17Lb./Ft.	Tubing Size	Shots/Ft	165 sacks	AA-2 with	38 Friction Reducer	RATE	PRESS	ISH	258 Defoamer
Depth 4,578ft.	Depth	From	To	.88 FL	108 salt	Max	758 Gas Blok	5 Min	6.5 sk. Gilsonite
Volume 106.2 Bbl.	Volume	From	To	15 Lb. Gal.	6.28 Gal./sk.	Min	1.45 CU. Ft.	10 Min	1 sk.
Max Press 500 P.S.I.	Max Press	From	To			Avg			15 Min.
Well Connection Plug Container	Annulus Vol.	From	To	25 sacks	60/40 Poz	HHP Used	Plug Rat	Annulus Pressure	and Mouse Holes
Plug Depth 4,578ft.	Packer Depth	From	To	Flush	105.7 Bbl. Fresh Water	Gas Volume		Total Load	

Customer Representative Joe Smith Station Manager David Scott Treater Clarence R. Messick

Service Units	19,870	19,903	19,909	19,831	19,862
Driver Names	Messick	Mattal	Shields		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:00					Trucks on location and hold safety meeting.
8:45					Duke Drilling start to run Weatherford Packer Shoe, Shoe joint with latch down baffles screwed into collar and a total of 11 jts. new 17Lb./Ft. 5 1/2" casing. Ran Basket on jt. #9. Ran Turbolizers on collars #1, 2, 4, 7, 8 and 11.
11:15					Casing in well. Circulate for 60 minutes.
12:20					Release ball to set packer shoe.
12:40	1,200				Set packer shoe, Circulate for 20 minutes.
1:05	400			6	Start Fresh Water Pre-Flush.
1:09	400		20	6	Start Super Flush II.
1:12	400		44	6	Start Fresh Water Spacer.
			47		Stop pumping. Shut in well.
1:16	0		4-3	3	Plug Rat and Mouse holes. Open Well.
1:22	400			5	Start mixing 165 sacks AA-2 cement.
	-0-		25		Stop pumping. Shut in well. Wash pump and lines. Open Well. Release plug.
1:34	200			6.5	Start Fresh Water Displacement.
1:46			80	5	Start to lift cement.
1:50	700		105.7		Plug down.
	1,500				Pressure up.
					Release Pressure. Latch Down Plug held.
					Wash up pump truck.

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Job Complete. Thanks, Clarence, Mike, Billy

# ALLIED CEMENTING CO., INC. 24263

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
*MEDICINE LODGE*

DATE <i>9-27-07</i>	SEC. <i>21</i>	TWP. <i>32s</i>	RANGE <i>07W</i>	CALLED OUT <i>4:00 AM</i>	ON LOCATION <i>6:15 AM</i>	JOB START <i>8:15 AM</i>	JOB FINISH <i>8:45 AM</i>
LEASE <i>BURKHOLDER</i>		WELL # <i>1-21</i>		LOCATION <i>ATTECA, KS EAST</i>		COUNTY <i>HARPER</i>	STATE <i>KANSAS</i>
OLD OR NEW (Circle one) <u>NEW</u>		<i>1/2 NORTH, WEST INTO</i>					

CONTRACTOR *DUKE #5*

TYPE OF JOB *SURFACE*

HOLE SIZE *12 1/4"* T.D. *346'*

CASING SIZE *8 5/8"* DEPTH *345'*

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX *250#* MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. *20'*

PERFS. \_\_\_\_\_

DISPLACEMENT *20 3/4 BBLs #120*

OWNER *AMERICAN WARRIOR*

CEMENT AMOUNT ORDERED *200 SY 60/40/2 + 3% CC*

COMMON <i>A</i>	<i>120</i>	@ <i>11.10</i>	<i>1332.00</i>
POZMIX	<i>80</i>	@ <i>6.20</i>	<i>496.00</i>
GEL	<i>4</i>	@ <i>16.65</i>	<i>66.60</i>
CHLORIDE	<i>6</i>	@ <i>46.60</i>	<i>279.60</i>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER *K. BURKHARDT*

# *414-302* HELPER *C. WILLIARD*

BULK TRUCK

# *389* DRIVER *R. ROMANS*

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

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CONSERVATION DIVISION

HANDLING *210* @ *1.90* *399.00*

MILEAGE *28 x 210 x .09* *529.20*

TOTAL *3102.40*

REMARKS:

*Run 8 5/8" CSG + CIRCULATE*

*MIX 200 SY 60:40:2 + 3% CC*

*DISPLACE PUG/ 20 3/4 BBLs*

*CEMENT DID CIRCULATE*

SERVICE

DEPTH OF JOB *345'*

PUMP TRUCK CHARGE *0-300'* *815.00*

EXTRA FOOTAGE *45'* @ *.65* *29.25*

MILEAGE *28* @ *6.00* *168.00*

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

CHARGE TO *AMERICAN WARRIOR*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL *1012.25*

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

ANY APPLICABLE TAX WILL BE CHARGED UPON INVOICING TOTAL \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE ~~\_\_\_\_\_~~

DISCOUNT ~~\_\_\_\_\_~~ IF PAID IN 30 DAYS

To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

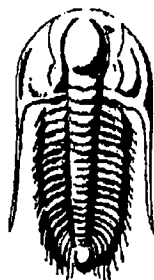
SIGNATURE *[Signature]*

PRINTED NAME \_\_\_\_\_

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FEB 15 2008

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399  
Garden City KS 67346

ATTN: Jim Dilts

**21 32S 7W**

**Berkholder #1-21B**

Start Date: 2007.10.06 @ 09:07:49

End Date: 2007.10.06 @ 17:05:19

Job Ticket #: 29359      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2007.10.15 @ 10:47:14 Page 1

American Warrior

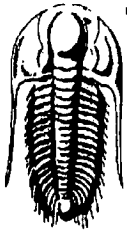
Berkholder #1-21B

21 32S 7W

DST # 1

Mississippi

2007.10.06



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior  
 PO Box 399  
 Garden City KS 67346  
 ATTN: Jim Dilts

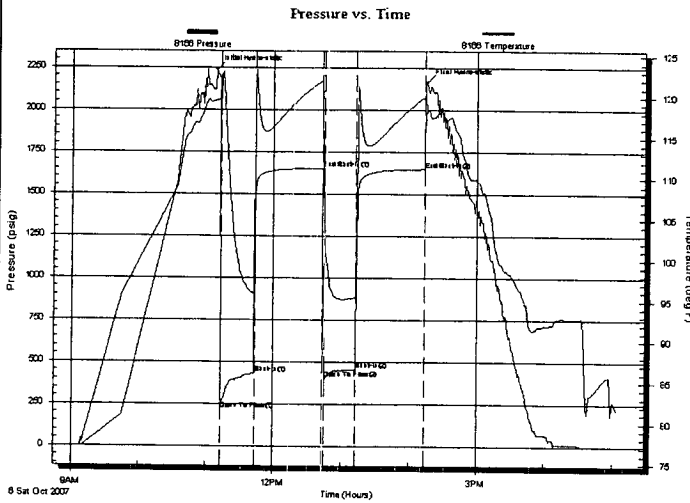
**Berkholder #1-21B**  
**21 32S 7W**  
 Job Ticket: 29359      **DST#: 1**  
 Test Start: 2007.10.06 @ 09:07:49

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 11:13:19      Tester: Leal Cason  
 Time Test Ended: 17:05:19      Unit No: 24  
 Interval: **4387.00 ft (KB) To 4400.00 ft (KB) (TVD)**      Reference Elevations: 1401.00 ft (KB)  
 Total Depth: 4400.00 ft (KB) (TVD)      1390.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 11.00 ft

**Serial #: 8166      Inside**  
 Press@RunDepth: 454.12 psig @ 4388.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2007.10.06      End Date: 2007.10.06      Last Calib.: 2007.10.06  
 Start Time: 09:07:54      End Time: 17:05:18      Time On Btm: 2007.10.06 @ 11:08:54  
 Time Off Btm: 2007.10.06 @ 14:15:34

**TEST COMMENT:** IF Strong Blow, BOB in 1 min GTS In 5 min Gauged Gas  
 ISI Bled Off Weak Surface Blow back  
 FF Strong Blow BOB & GTS Immediate Gauged Gas & Caught Sample  
 FSI Bled Off



## PRESSURE SUMMARY

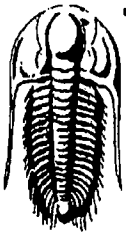
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.98	119.64	Initial Hydro-static
5	214.62	120.03	Open To Flow (1)
35	430.81	95.87	Shut-In(1)
95	1650.68	122.13	End Shut-In(1)
96	400.26	105.85	Open To Flow (2)
125	454.12	95.40	Shut-In(2)
185	1646.69	120.11	End Shut-In(2)
187	2163.44	118.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 4188 Feet	0.00
179.00	MCW 42%M 58%W .48 @ 90 degrees	1.16

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	58.00	2081.41
Last Gas Rate	1.00	80.00	2713.89
Max. Gas Rate	1.00	80.00	2713.89



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior  
PO Box 399  
Garden City KS 67346  
  
ATTN: Jim Dilts

**Berkholder #1-21B**  
**21 32S 7W**  
Job Ticket: 29359      **DST#: 1**  
Test Start: 2007.10.06 @ 09:07:49

**Tool Information**

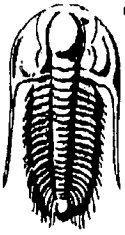
Drill Pipe:	Length: 4219.00 ft	Diameter: 3.80 inches	Volume: 59.18 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose: 74000.00 lb
			<b>Total Volume: 59.91 bbl</b>	Tool Chased ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4387.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			4359.00	
Change Over Sub	1.00			4360.00	
Shut In Tool	5.00			4365.00	
Hydraulic tool	5.00			4370.00	
Jars	5.00			4375.00	
Safety Joint	3.00			4378.00	
Packer	5.00			4383.00	29.00      Bottom Of Top Packer
Packer	4.00			4387.00	
Stubb	1.00			4388.00	
Recorder	0.00	8166	Inside	4388.00	
Perforations	9.00			4397.00	
Recorder	0.00	6704	Outside	4397.00	
Bullnose	3.00			4400.00	13.00      Bottom Packers & Anchor

**Total Tool Length: 42.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior

**Berkholder #1-21B**

PO Box 399  
Garden City KS 67346

**21 32S 7W**

Job Ticket: 29359

**DST#: 1**

ATTN: Jim Dilts

Test Start: 2007.10.06 @ 09:07:49

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 11.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 10000 ppm

## Recovery Information

Recovery Table

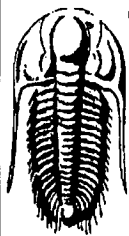
Length ft	Description	Volume bbl
0.00	GIP 4188 Feet	0.000
179.00	MCW 42%M 58%W .48 @ 90 degrees	1.163

Total Length: 179.00 ft      Total Volume: 1.163 bbl

Num Fluid Samples: 1      Num Gas Bombs: 0      Serial #:

Laboratory Name: Caraway      Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

American Warrior  
PO Box 399  
Garden City KS 67346

**Berkholder #1-21B**

**21 32S 7W**

Job Ticket: 29359

**DST#: 1**

ATTN: Jim Dilts

Test Start: 2007.10.06 @ 09:07:49

## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	1.00	58.00	2081.41
1	20	1.00	66.00	2311.40
1	30	1.00	70.00	2426.40
2	10	1.00	70.00	2426.40
2	20	1.00	78.00	2656.39
2	30	1.00	80.00	2713.89

