



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

P O Box 399  
Garden City Ks 67846

ATTN: Cecil O'Brate

**7-8-21-Graham-Ks**

**I Kenyon # 2-7**

Start Date: 2004.03.12 @ 19:45:01

End Date: 2004.03.13 @ 02:07:01

Job Ticket #: 19787                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

American Warrior Inc

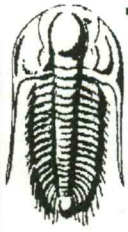
I Kenyon # 2-7

7-8-21-Graham-Ks

DST # 1

C-D LKC

2004.03.12



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TESTING, INC.**

## DRILL STEM TEST REPORT

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ATTN: Cecil O'Brate

**I Kenyon # 2-7**  
**7-8-21-Graham-Ks**  
Job Ticket: 19787      **DST#: 1**  
Test Start: 2004.03.12 @ 19:45:01

### GENERAL INFORMATION:

Formation: **C-D LKC**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:21:01  
Time Test Ended: 02:07:01

Test Type: Conventional Bottom Hole  
Tester: Dan Bangle  
Unit No: 21

Interval: **3260.00 ft (KB) To 3305.00 ft (KB) (TVD)**  
Total Depth: 3305.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2039.00 ft (KB)  
2031.00 ft (CF)  
KB to GR/CF: 8.00 ft

### Serial #: 6770

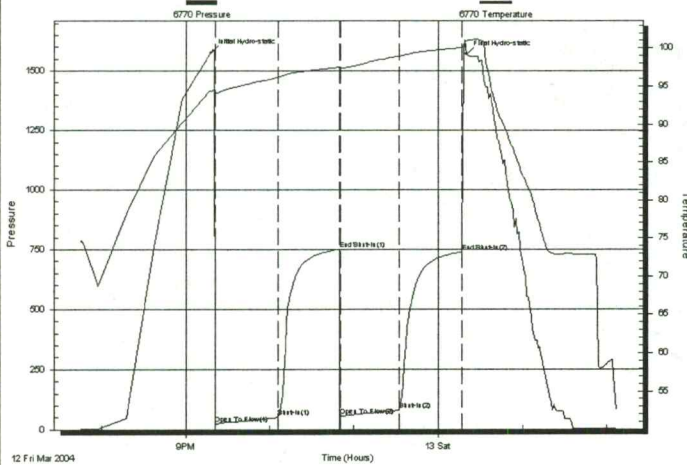
Inside

Press@RunDepth: 78.74 psig @ 3267.00 ft (KB)  
Start Date: 2004.03.12 End Date: 2004.03.13  
Start Time: 19:45:02 End Time: 02:07:01

Capacity: 7000.00 psig  
Last Calib.: 2004.03.13  
Time On Btm: 2004.03.12 @ 21:18:01  
Time Off Btm: 2004.03.13 @ 00:20:01

TEST COMMENT: IF-Strong BOB in 45 min  
IS-Weak building to 1/4"  
FF-Weak building to 6"  
FSI-Weak surface blow

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.00	94.35	Initial Hydro-static
3	21.68	94.12	Open To Flow (1)
48	50.94	96.18	Shut-In(1)
92	751.10	97.49	End Shut-In(1)
93	55.29	97.34	Open To Flow (2)
134	78.74	98.94	Shut-In(2)
179	738.95	100.05	End Shut-In(2)
182	1570.04	100.96	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM 40%o 60% m	0.84
90.00	CO	1.26
0.00	275 GIP	0.00

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc  
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ATTN: Cecil O'Brate

**I Kenyon # 2-7**  
**7-8-21-Graham-Ks**  
Job Ticket: 19787      **DST#: 1**  
Test Start: 2004.03.12 @ 19:45:01

### Tool Information

Drill Pipe:	Length: 3269.00 ft	Diameter: 3.80 inches	Volume: 45.86 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<b>Total Volume: 45.86 bbl</b>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3260.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3240.00	
Shut In Tool	5.00			3245.00	
Hydraulic tool	5.00			3250.00	
Packer	5.00			3255.00	21.00      Bottom Of Top Packer
Packer	5.00			3260.00	
Stubb	1.00			3261.00	
Perforations	5.00			3266.00	
Change Over Sub	1.00			3267.00	
Recorder	0.00	6770	Inside	3267.00	
Drill Pipe	31.00			3298.00	
Change Over Sub	1.00			3299.00	
Perforations	3.00			3302.00	
Recorder	0.00	13254	Outside	3302.00	
Bullnose	3.00			3305.00	45.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>66.00</b>				



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**FLUID SUMMARY**

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ATTN: Cecil O'Brate

**I Kenyon # 2-7**  
**7-8-21-Graham-Ks**  
Job Ticket: 19787      **DST#: 1**  
Test Start: 2004.03.12 @ 19:45:01

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	HOCM 40%o 60%m	0.842
90.00	CO	1.262
0.00	275 GIP	0.000

Total Length: 150.00 ft      Total Volume: 2.104 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

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ATTN: Cecil O'Brate

**7-8-21-Graham-Ks**

**I Kenyon # 2-7**

Start Date: 2004.03.13 @ 14:50:52

End Date: 2004.03.13 @ 21:41:52

Job Ticket #: 19788                      DST #: 2

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ATTN: Cecil O'Brate

**I Kenyon # 2-7**  
**7-8-21-Graham-Ks**  
Job Ticket: 19788      **DST#: 2**  
Test Start: 2004.03.13 @ 14:50:52

## GENERAL INFORMATION:

Formation: **J-K LKC**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 16:27:22  
Time Test Ended: 21:41:52  
Interval: **3398.00 ft (KB) To 3430.00 ft (KB) (TVD)**  
Total Depth: 3430.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Reference Elevations: 2039.00 ft (KB)  
2031.00 ft (CF)  
KB to GR/CF: 8.00 ft  
Test Type: Conventional Bottom Hole  
Tester: Dan Bangle  
Unit No: 21

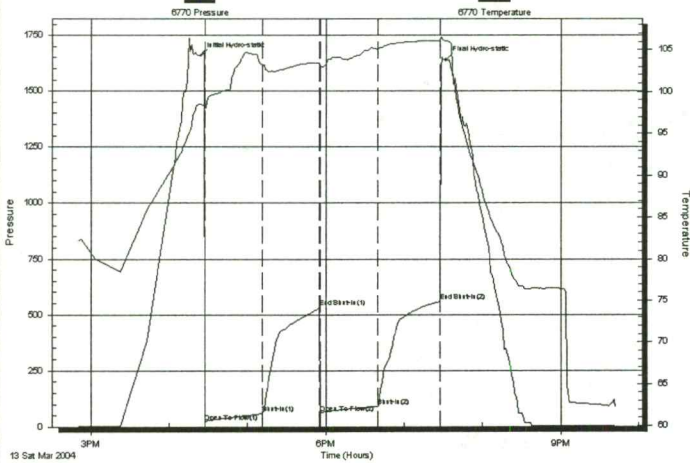
## Serial #: 6770

Inside

Press@RunDepth: 89.86 psig @ 3399.00 ft (KB) Capacity: 7000.00 psig  
Start Date: 2004.03.13 End Date: 2004.03.13 Last Calib.: 2004.03.13  
Start Time: 14:50:53 End Time: 21:41:52 Time On Btm: 2004.03.13 @ 16:23:52  
Time Off Btm: 2004.03.13 @ 19:31:52

TEST COMMENT: IF-Strong BOB in 18 min  
IS-Weak died in 10 min  
FF-Strong BOB in 25 min  
Times-45-45-45-45

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.21	98.45	Initial Hydro-static
4	22.75	98.08	Open To Flow (1)
48	58.56	103.23	Shut-In(1)
92	530.82	103.49	End Shut-In(1)
92	59.94	103.23	Open To Flow (2)
136	89.86	105.11	Shut-In(2)
184	557.31	106.14	End Shut-In(2)
188	1638.85	106.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
185.00	HMCO 80%o 20% m	2.60
2.00	CO	0.03
0.00	370 GIP	0.00

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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**TOOL DIAGRAM**

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**I Kenyon # 2-7**  
**7-8-21-Graham-Ks**  
Job Ticket: 19788      **DST#: 2**  
Test Start: 2004.03.13 @ 14:50:52

### Tool Information

Drill Pipe:	Length: 3394.00 ft	Diameter: 3.80 inches	Volume: 47.61 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3398.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3378.00	
Shut In Tool	5.00			3383.00	
Hydraulic tool	5.00			3388.00	
Packer	5.00			3393.00	21.00      Bottom Of Top Packer
Packer	5.00			3398.00	
Stubb	1.00			3399.00	
Recorder	0.00	6770	Inside	3399.00	
Perforations	28.00			3427.00	
Recorder	0.00	13254	Outside	3427.00	
Bullnose	3.00			3430.00	32.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>53.00</b>				



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**7-8-21-Graham-Ks**

Job Ticket: 19788

**DST#: 2**

ATTN: Cecil O'Brate

Test Start: 2004.03.13 @ 14:50:52

### Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.79 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	HMCO 80%o 20%m	2.595
2.00	CO	0.028
0.00	370 GIP	0.000

Total Length: 187.00 ft      Total Volume: 2.623 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6770

Inside

American Warrior Inc

7-8-21-Graham-Ks

DST Test Number: 2

