



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City KS 67846

ATTN: Cecil O'Brate Luke T

Lillie #4-30

30-16s-10w Ellsworth,KS

Start Date: 2015.10.28 @ 10:45:55

End Date: 2015.10.28 @ 15:40:34

Job Ticket #: 62674 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.10.30 @ 07:51:35



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc

30-16s-10w Ellsworth,KS

PO Box 399
Garden City KS 67846

Lillie #4-30

Job Ticket: 62674

DST#: 1

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.28 @ 10:45:55

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:02:05

Time Test Ended: 15:40:34

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

Interval: 3147.00 ft (KB) To 3220.00 ft (KB) (TVD)

Reference Elevations: 1881.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1873.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 41.32 psig @ 3153.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.28

End Date:

2015.10.28

Last Calib.: 2015.10.28

Start Time: 10:45:55

End Time:

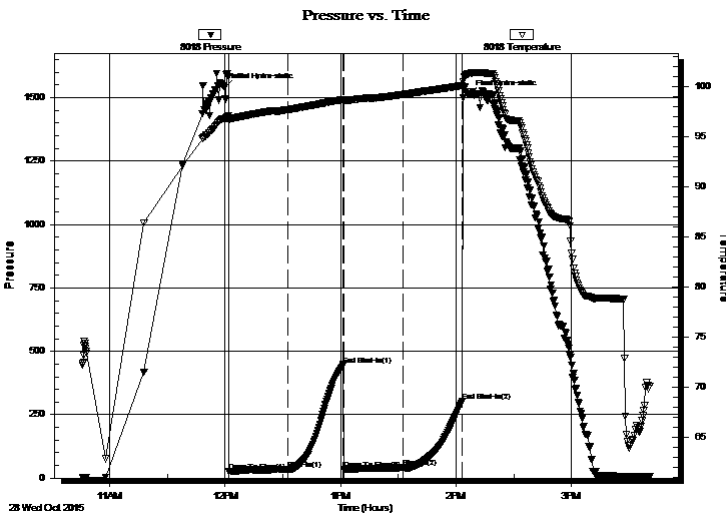
15:40:34

Time On Btm: 2015.10.28 @ 11:59:35

Time Off Btm: 2015.10.28 @ 14:06:50

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 1/2" bl
30-ISIP-no bl
30-FFP-w k bl thru-out 1/4" bl
30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1540.38	96.83	Initial Hydro-static
3	26.64	96.66	Open To Flow (1)
33	33.81	97.72	Shut-In(1)
62	447.02	98.73	End Shut-In(1)
62	35.79	98.56	Open To Flow (2)
93	41.32	99.24	Shut-In(2)
124	301.76	100.13	End Shut-In(2)
128	1513.85	101.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/ show of oil	0.14

Gas Rates

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



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DRILL STEM TEST REPORT

American Warrior Inc

30-16s-10w Ellsworth,KS

PO Box 399
Garden City KS 67846

Lillie #4-30

Job Ticket: 62674

DST#: 1

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Interval: 3147.00 ft (KB) To 3220.00 ft (KB) (TVD)

Reference Elevations: 1881.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1873.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8700 Outside

Press@RunDepth: psig @ 3153.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.28

End Date:

2015.10.28

Last Calib.:

2015.10.28

Start Time: 10:45:56

End Time:

15:36:50

Time On Btm:

Time Off Btm:

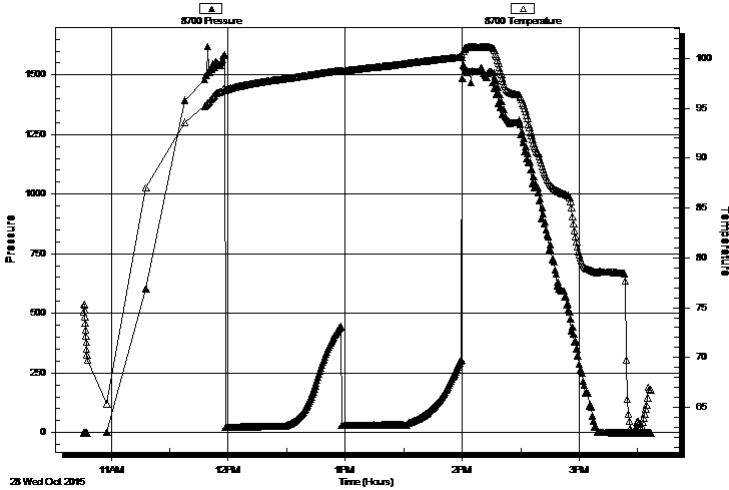
TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 1/2" bl

30-ISIP-no bl

30-FFP-w k bl thru-out 1/4" bl

30-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w / show of oil	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

30-16s-10w Ellsworth,KS

PO Box 399
Garden City KS 67846

Lillie #4-30

Job Ticket: 62674

DST#: 1

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.28 @ 10:45:55

Tool Information

Drill Pipe:	Length: 2815.00 ft	Diameter: 3.80 inches	Volume: 39.49 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.70 inches	Volume: 2.20 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 41.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3147.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	102.00 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			3119.00	
Shut In Tool	5.00			3124.00	
Hydraulic tool	5.00			3129.00	
Jars	5.00			3134.00	
Safety Joint	3.00			3137.00	
Packer	5.00			3142.00	29.00 Bottom Of Top Packer
Packer	5.00			3147.00	
Stubb	1.00			3148.00	
Perforations	5.00			3153.00	
Recorder	0.00	8018	Inside	3153.00	
Recorder	0.00	8700	Outside	3153.00	
Blank Spacing	64.00			3217.00	
Bullnose	3.00			3220.00	73.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

30-16s-10w Ellsworth,KS

PO Box 399
Garden City KS 67846

Lillie #4-30

Job Ticket: 62674

DST#: 1

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.28 @ 10:45:55

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w / show of oil	0.142

Total Length: 20.00 ft Total Volume: 0.142 bbl

Num Fluid Samples: 0

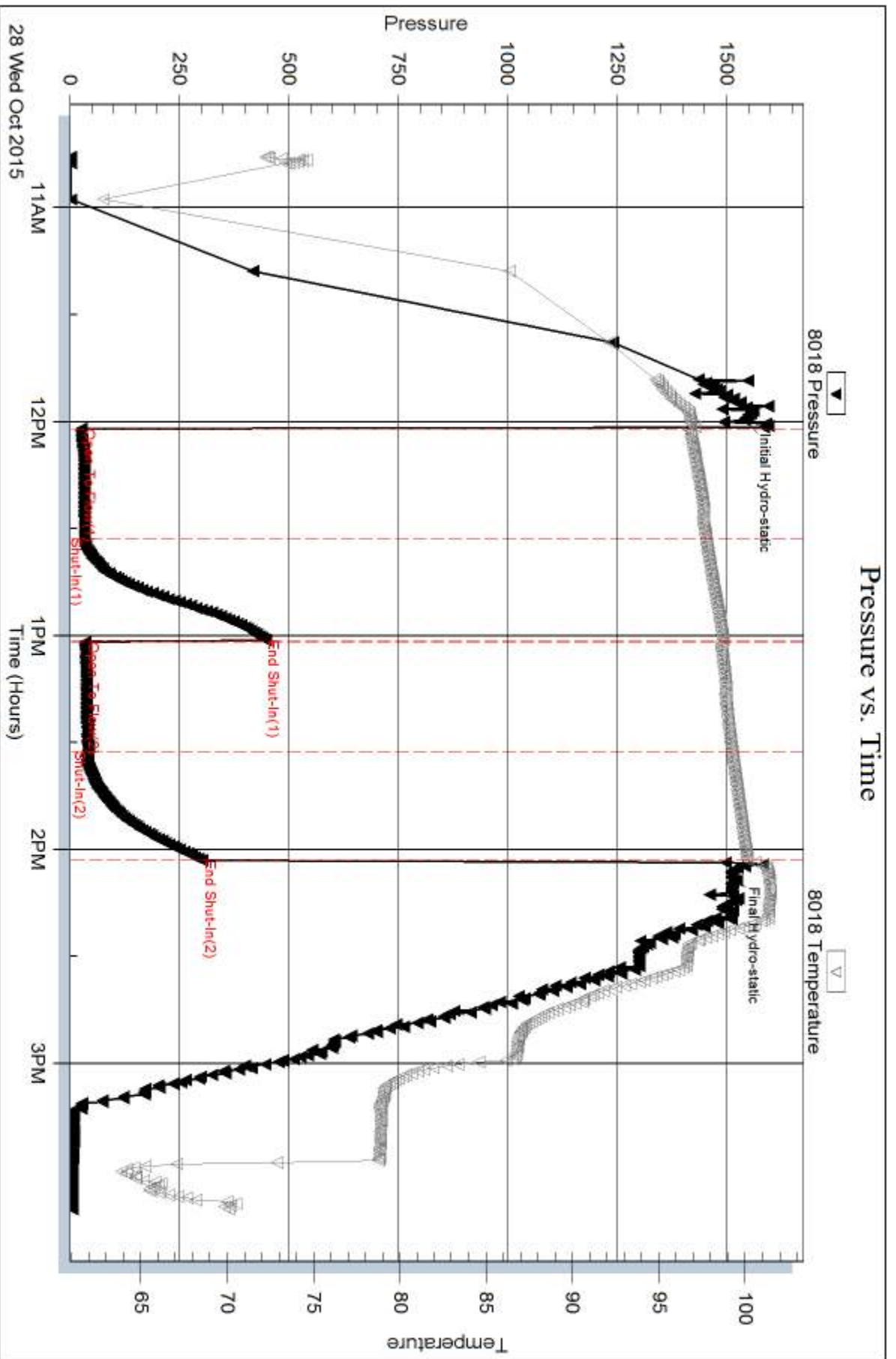
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

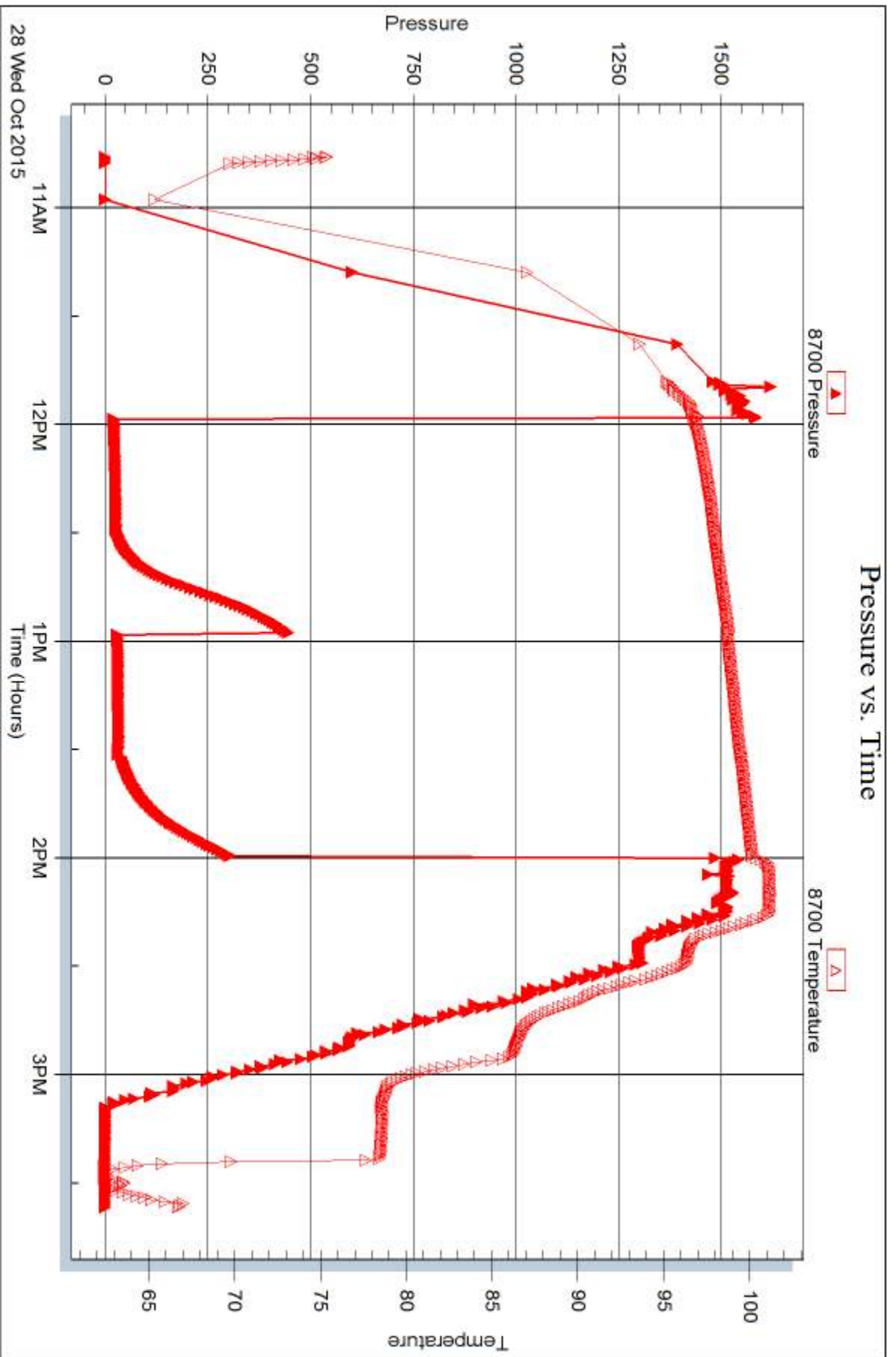


Serial #: 8700

Outside American Warrior Inc

Lille #4-30

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62674

Printed: 2015.10.30 @ 07:51:36



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City KS 67846

ATTN: Cecil O'Brate Luke T

Lillie #4-30

30-16s-10w Ellsworth,KS

Start Date: 2015.10.29 @ 08:46:04

End Date: 2015.10.29 @ 16:02:28

Job Ticket #: 62675 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.10.30 @ 07:51:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc

30-16s-10w Ellsworth, KS

PO Box 399
Garden City KS 67846

Lillie #4-30

Job Ticket: 62675

DST#: 2

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.29 @ 08:46:04

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:04:44

Time Test Ended: 16:02:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3319.00 ft (KB) To 3390.00 ft (KB) (TVD)

Reference Elevations: 1881.00 ft (KB)

Total Depth: 3390.00 ft (KB) (TVD)

1873.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018 Inside

Press@RunDepth: 601.95 psig @ 3323.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.29 End Date: 2015.10.29

Last Calib.: 2015.10.29

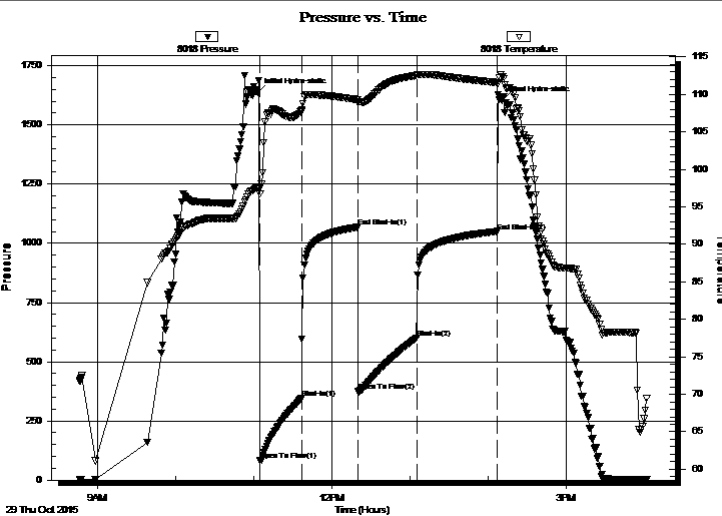
Start Time: 08:46:04 End Time: 16:02:28

Time On Btm: 2015.10.29 @ 11:02:44

Time Off Btm: 2015.10.29 @ 14:10:58

TEST COMMENT: 30-IFP-w k to strg in 3 min
45-ISIP-no bl bk
45-FFP-w k to strg in 5 min
60-FSIP-no bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.63	97.59	Initial Hydro-static
2	84.20	96.71	Open To Flow (1)
34	347.38	107.74	Shut-In(1)
77	1068.15	109.31	End Shut-In(1)
78	375.57	108.91	Open To Flow (2)
123	601.95	112.49	Shut-In(2)
185	1050.15	111.57	End Shut-In(2)
189	1604.32	112.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
866.00	Water	9.99
340.00	SOCMW 2%O25%M73%W	4.77
124.00	SOCW 2%O98%W	1.74

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc

30-16s-10w Ellsworth, KS

PO Box 399
Garden City KS 67846

Lillie #4-30

Job Ticket: 62675

DST#: 2

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.29 @ 08:46:04

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 11:04:44
 Tester: Ray Schwager
 Time Test Ended: 16:02:28
 Unit No: 70
Interval: 3319.00 ft (KB) To 3390.00 ft (KB) (TVD)
 Reference Elevations: 1881.00 ft (KB)
 Total Depth: 3390.00 ft (KB) (TVD)
 1873.00 ft (CF)
 Hole Diameter: 7.85 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

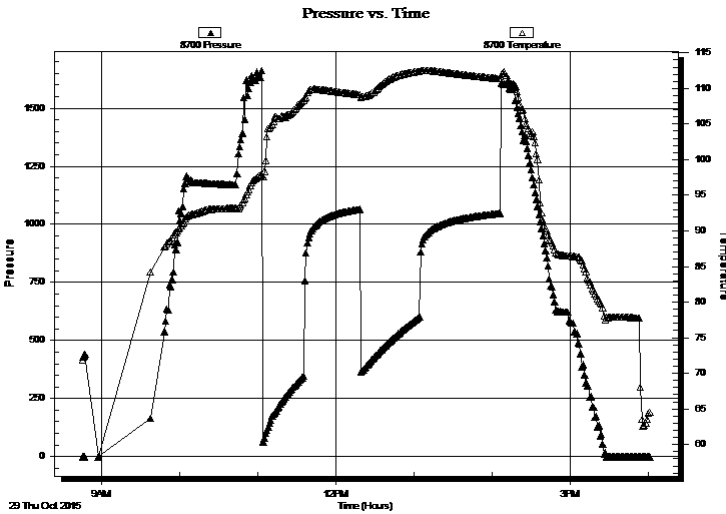
Serial #: 8700

Outside

Press@RunDepth: psig @ 3323.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.10.29 End Date: 2015.10.29 Last Calib.: 2015.10.29
 Start Time: 08:45:17 End Time: 16:01:26 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k to strg in 3 min
 45-ISIP-no bl bk
 45-FFP-w k to strg in 5 min
 60-FSIP-no bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
866.00	Water	9.99
340.00	SOCMW 2%O25%M73%W	4.77
124.00	SOCW 2%O98%W	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

30-16s-10w Ellsworth,KS

PO Box 399
Garden City KS 67846

Lillie #4-30

Job Ticket: 62675

DST#: 2

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.29 @ 08:46:04

Tool Information

Drill Pipe:	Length: 3006.00 ft	Diameter: 3.80 inches	Volume: 42.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.70 inches	Volume: 2.20 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3319.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	100.00 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			3291.00	
Shut In Tool	5.00			3296.00	
Hydraulic tool	5.00			3301.00	
Jars	5.00			3306.00	
Safety Joint	3.00			3309.00	
Packer	5.00			3314.00	29.00 Bottom Of Top Packer
Packer	5.00			3319.00	
Stubb	1.00			3320.00	
Perforations	3.00			3323.00	
Recorder	0.00	8018	Inside	3323.00	
Recorder	0.00	8700	Outside	3323.00	
Blank Spacing	64.00			3387.00	
Bullnose	3.00			3390.00	71.00 Bottom Packers & Anchor

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

30-16s-10w Ellsworth,KS

PO Box 399
Garden City KS 67846

Lillie #4-30

Job Ticket: 62675

DST#: 2

ATTN: Cecil O'Brate Luke T

Test Start: 2015.10.29 @ 08:46:04

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:

20000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.70 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
866.00	Water	9.995
340.00	SOCMW 2%O25%M73%W	4.769
124.00	SOCW 2%O98%W	1.739

Total Length: 1330.00 ft Total Volume: 16.503 bbl

Num Fluid Samples: 0

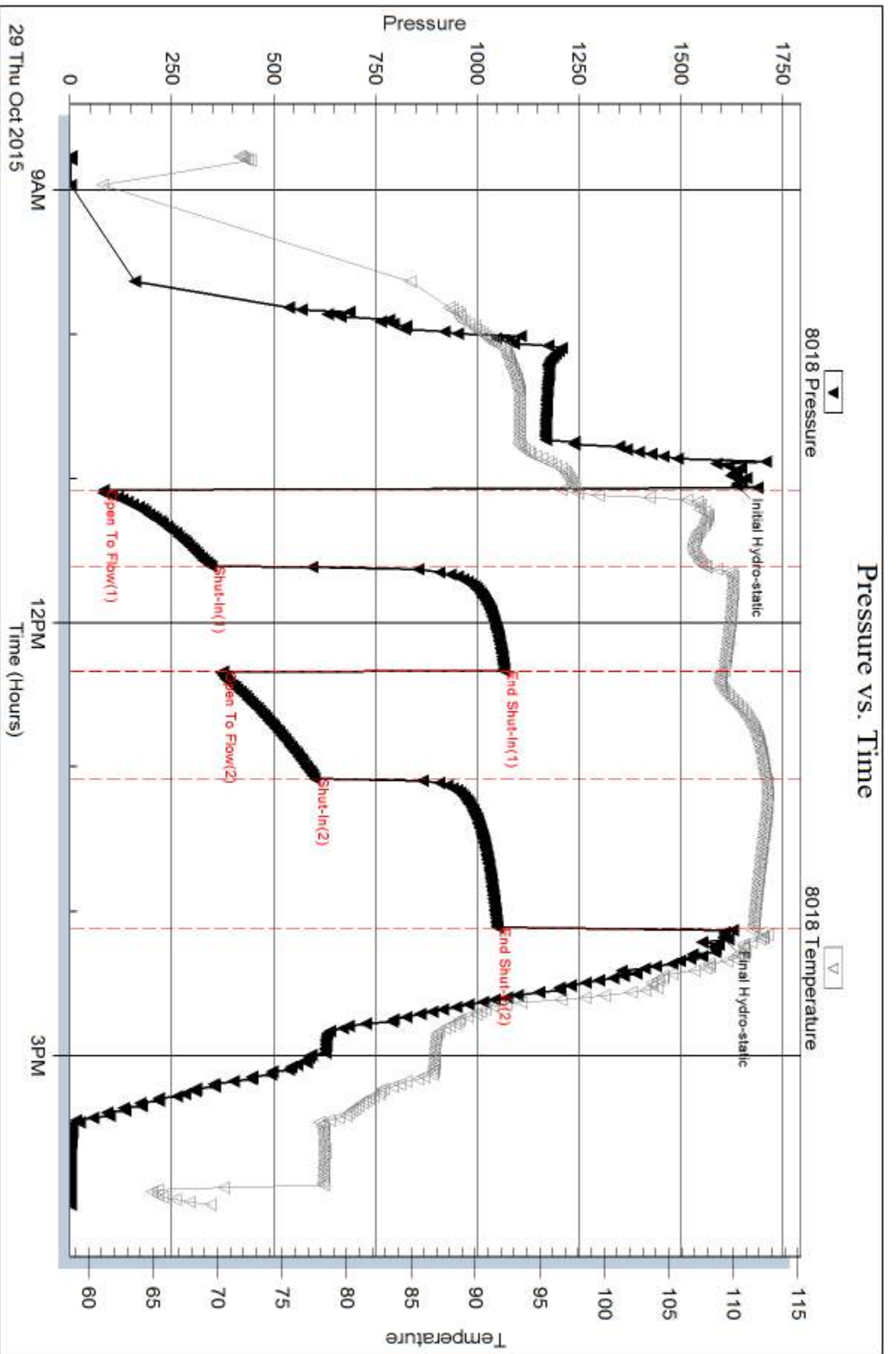
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .33@70F

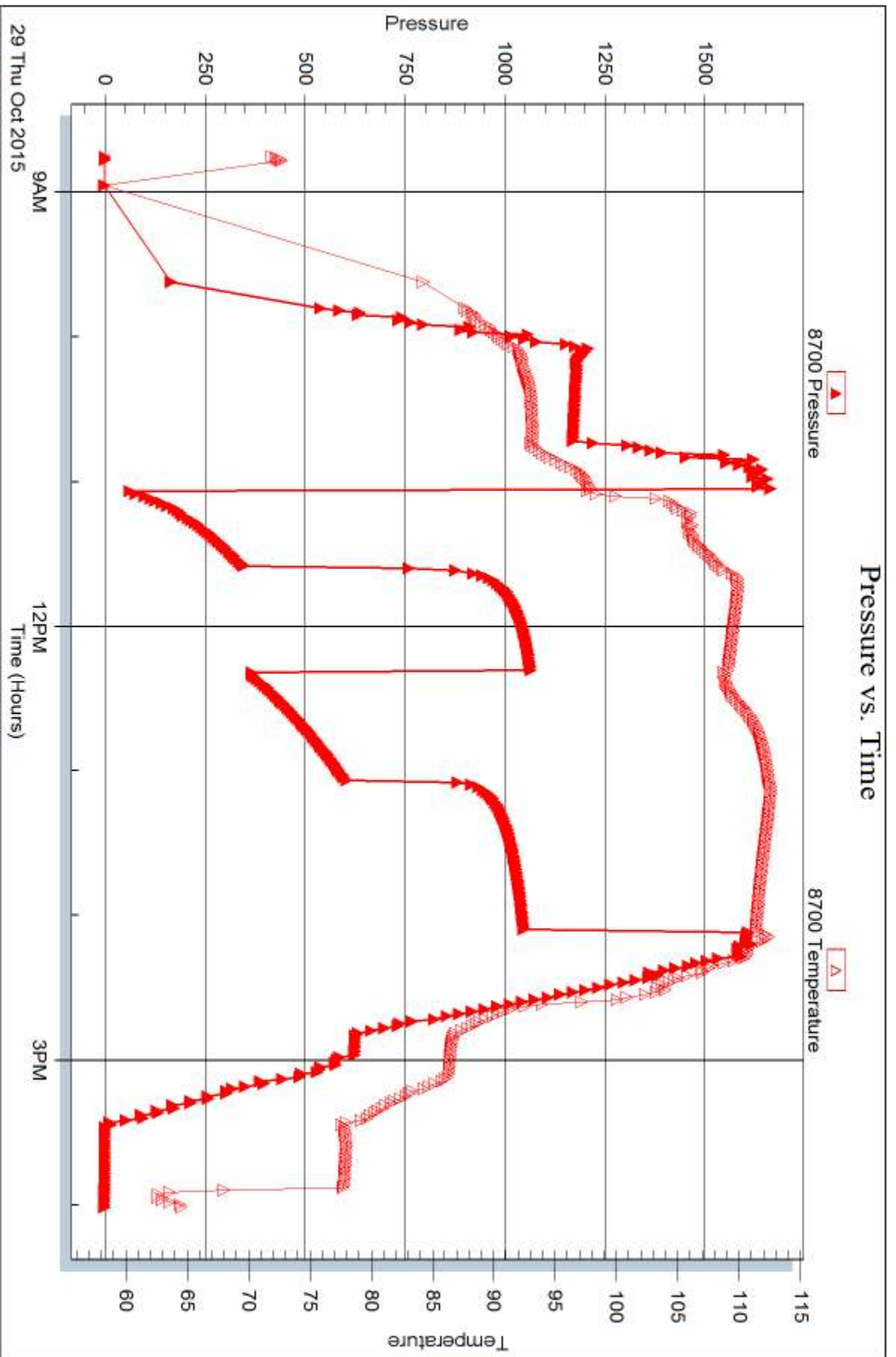


Serial #: 8700

Outside American Warrior Inc

Lille #4-30

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 62675

Printed: 2015.10.30 @ 07:51:04



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62674

Well Name & No. LILLIE # 4-30 Test No. 1 Date 10-28-15
 Company AMERICAN WARRIOR TNC Elevation 1881 KB 1873 GL
 Address 3118 Cummings Rd, PO Box 399 Garden City, Ks 67846
 Co. Rep / Geo. Luke Thompson Rig DISCOVERY rig 2
 Location: Sec. 30 Twp. 16^s Rge. 10^w Co. Ellsworth State Ks

Interval Tested 3147-3220 Zone Tested LKC H-5
 Anchor Length 73 Drill Pipe Run 2815 Mud Wt. 9.3
 Top Packer Depth 3142 Drill Collars Run — Vis 58
 Bottom Packer Depth 3147 Wt. Pipe Run 310 WL 8.8
 Total Depth 3220 Chlorides 5200 ppm System LCM 1/2#
 Blow Description TFP - WEAK Blow thru-out 1/4" To 1/2" Blow
TSIP - NO Blow
FFP - WEAK Blow thru-out 1/4" Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>				
	<u>w/slow oil</u>				

Rec Total 20 BHT 100 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1540</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1020</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1045</u>
(C) First Final Flow <u>33</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1205</u>
(D) Initial Shut-In <u>447</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1405</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1540</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>125 RT</u>	Comments <u>MOTEL STAY</u>
(G) Final Shut-In <u>301</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1513</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1500</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1500</u>	

Approved By _____ Our Representative RAY SCHWAGN THAT 404

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62675

Well Name & No. Lillie #4-30 Test No. 2 Date 10-29-15
 Company AMERICAN WARRIOR Inc Elevation 1881 KB 1873 GL
 Address 3118 Cummings Rd. Po Box 399 Garden City, Ks 67846
 Co. Rep / Geo. Luke Thompson Rig Discovery rig 2
 Location: Sec. 30 Twp. 16^s Rge. 10^w Co. ELLSWORTH State Ks

Interval Tested 3319-3390 Zone Tested Arbuckle
 Anchor Length 71 Drill Pipe Run 3006 Mud Wt. 9.4
 Top Packer Depth 3314 Drill Collars Run — Vis 50
 Bottom Packer Depth 3319 Wt. Pipe Run 310 WL 8.8
 Total Depth 3390 Chlorides 5200 ppm System LCM 1/2#
 Blow Description TFP - WEAK TO STRONG IN 3 MIN
ISIP - NO BLOW BACK
FFP - WEAK TO STRONG IN 5 MIN
FSIP - NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>866</u>	<u>WATER</u>				
<u>340</u>	<u>SOC MW</u>		<u>2</u>	<u>73</u>	<u>25</u>
<u>124</u>	<u>SOCW</u>		<u>2</u>	<u>98</u>	2
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1330 BHT III Gravity — API RW .33 @ 70 °F Chlorides 20000 ppm

(A) Initial Hydrostatic <u>1636</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0700</u>
(B) First Initial Flow <u>84</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0845</u>
(C) First Final Flow <u>347</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1100</u>
(D) Initial Shut-In <u>1068</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1400</u>
(E) Second Initial Flow <u>375</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1602</u>
(F) Second Final Flow <u>601</u>	<input checked="" type="checkbox"/> Mileage <u>125</u>	Comments
(G) Final Shut-In <u>1050</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1604</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1500</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1500</u>	

Approved By _____ Our Representative Ray Schwager *Thank you*

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.