



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.22 @ 15:33:15

End Date: 2016.11.23 @ 00:24:15

Job Ticket #: 65676 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:13:03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65676

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.11.22 @ 15:33:15

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:27:00

Time Test Ended: 00:24:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 3619.00 ft (KB) To 3679.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 3679.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 764.19 psig @ 3659.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.22

End Date:

2016.11.23

Last Calib.:

2016.11.23

Start Time: 15:33:15

End Time:

00:24:15

Time On Btm:

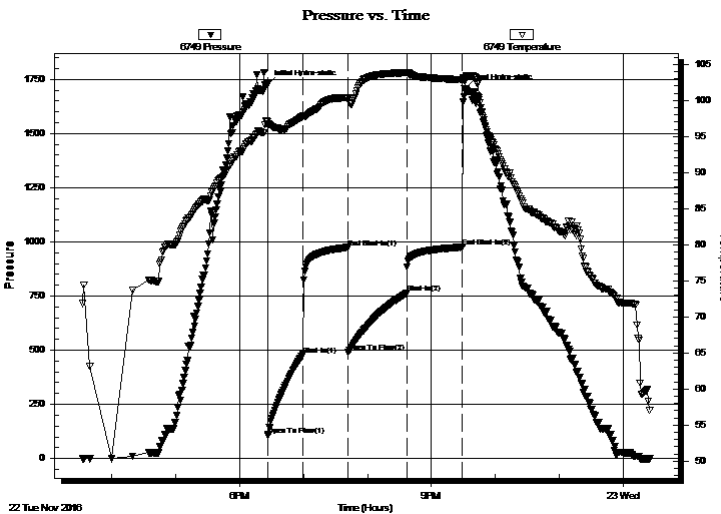
2016.11.22 @ 18:26:30

Time Off Btm:

2016.11.22 @ 21:31:00

TEST COMMENT: IF:BOB in 2 min.
IS:No return blow
FF:BOB in 3 min.
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.36	97.06	Initial Hydro-static
1	106.27	96.63	Open To Flow (1)
33	479.16	97.83	Shut-In(1)
75	974.20	100.36	End Shut-In(1)
76	490.71	100.23	Open To Flow (2)
131	764.19	103.84	Shut-In(2)
183	975.45	102.83	End Shut-In(2)
185	1706.64	102.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
236.00	sw 100% sw	1.16
620.00	ocmw 3%o5%m 92%w	8.70
310.00	ocmw 3%o 30%m 67%w	4.35
372.00	ocw m 3%o 47%w 50%m	5.22
0.00	6" free oil	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.
 P.O. Box 299
 Garden City KS 67846
 ATTN: Luke Thompson

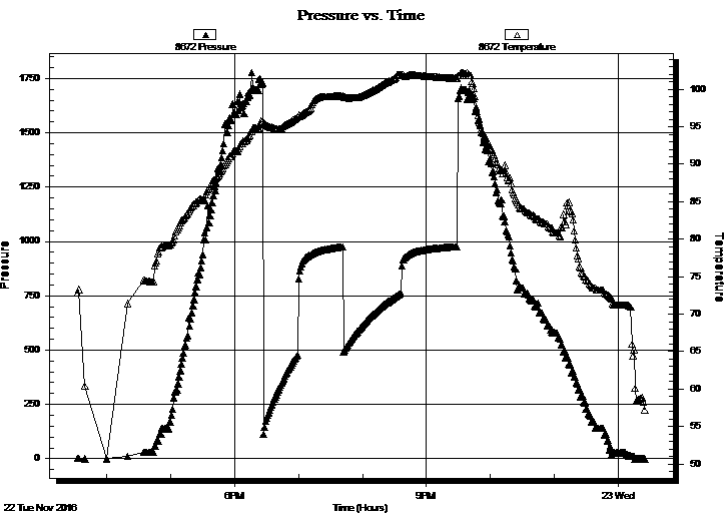
17-25s-36w Kearny,KS
Gano #4-17 Twin
 Job Ticket: 65676 **DST#: 1**
 Test Start: 2016.11.22 @ 15:33:15

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:27:00 Tester: Mike Roberts
 Time Test Ended: 00:24:15 Unit No: 81
Interval: 3619.00 ft (KB) To 3679.00 ft (KB) (TVD)
 Total Depth: 3679.00 ft (KB) (TVD) Reference Elevations: 3036.00 ft (KB)
 3026.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8672 Inside
 Press@RunDepth: psig @ 3659.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.22 End Date: 2016.11.23 Last Calib.: 2016.11.23
 Start Time: 15:33:15 End Time: 00:24:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:BOB in 2 min.
 IS:No return blow
 FF:BOB in 3 min.
 FS:No return blow



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

Recovery

Length (ft)	Description	Volume (bbl)
236.00	sw 100% sw	1.16
620.00	ocmw 3%o5%m 92%w	8.70
310.00	ocmw 3%o 30%m 67%w	4.35
372.00	ocw m 3%o 47%w 50%m	5.22
0.00	6" free oil	0.00

* 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.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65676

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.11.22 @ 15:33:15

Tool Information

Drill Pipe:	Length: 3369.00 ft	Diameter: 3.80 inches	Volume: 47.26 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 48.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3619.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	84.00 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			3596.00	
Shut In Tool	5.00			3601.00	
Hydraulic tool	5.00			3606.00	
Jars	5.00			3611.00	
Safety Joint	3.00			3614.00	
Packer	5.00			3619.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			3619.00	
Stubb	1.00			3620.00	
Perforations	5.00			3625.00	
Change Over Sub	1.00			3626.00	
Drill Pipe	32.00			3658.00	
Change Over Sub	1.00			3659.00	
Recorder	0.00	8672	Inside	3659.00	
Recorder	0.00	6749	Outside	3659.00	
Perforations	15.00			3674.00	
Bullnose	5.00			3679.00	60.00 Anchor Tool
Total Tool Length:	84.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65676

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.11.22 @ 15:33:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.92 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
236.00	sw 100% sw	1.161
620.00	ocmw 3%o5%m 92%w	8.697
310.00	ocmw 3%o 30%m 67%w	4.348
372.00	ocw m 3%o 47%w 50%m	5.218
0.00	6" free oil	0.000

Total Length: 1538.00 ft Total Volume: 19.424 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

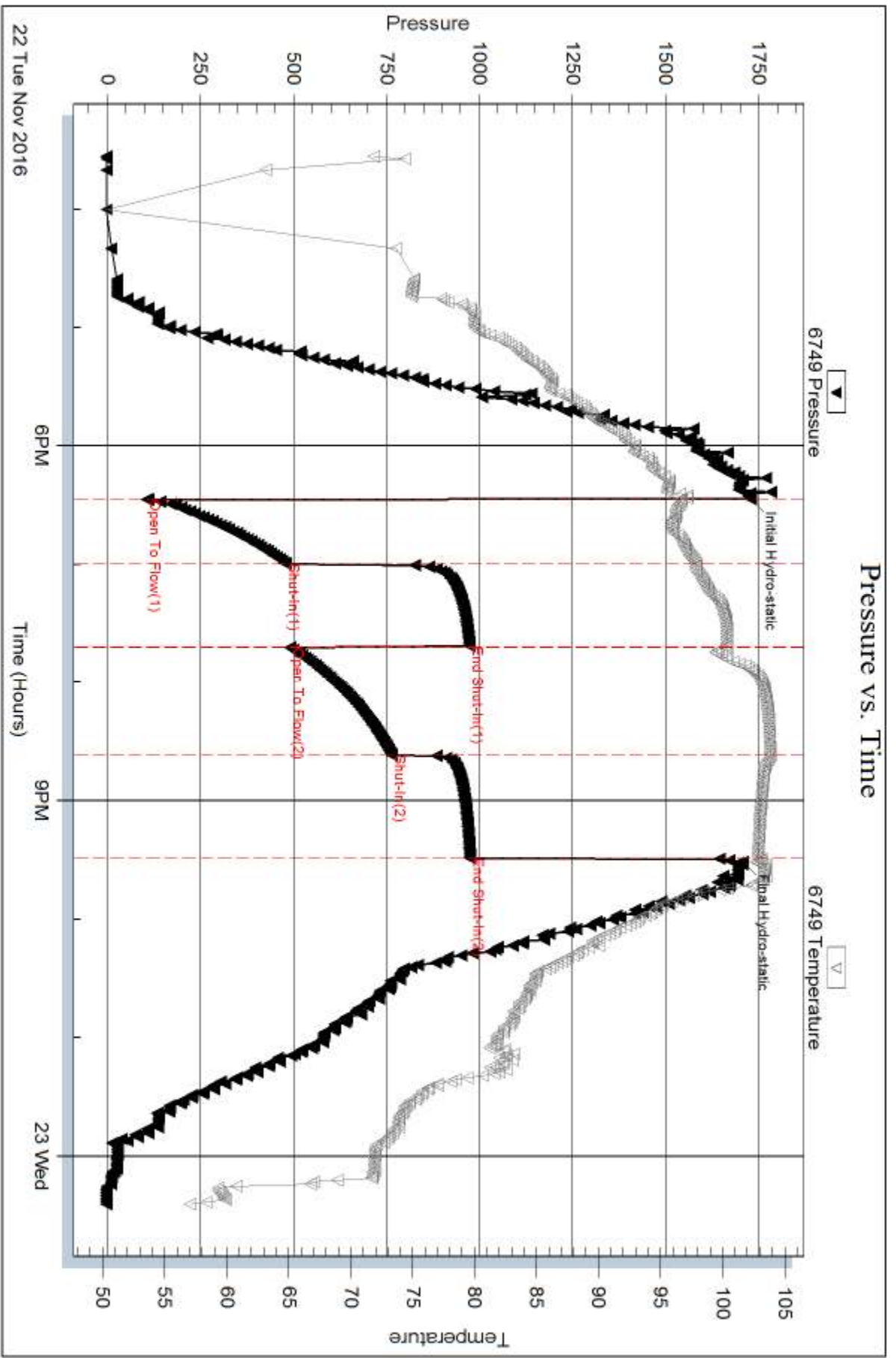
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 24 @ 50 corrected to 23

RW= .375@ 47.3= 25,000 ppm



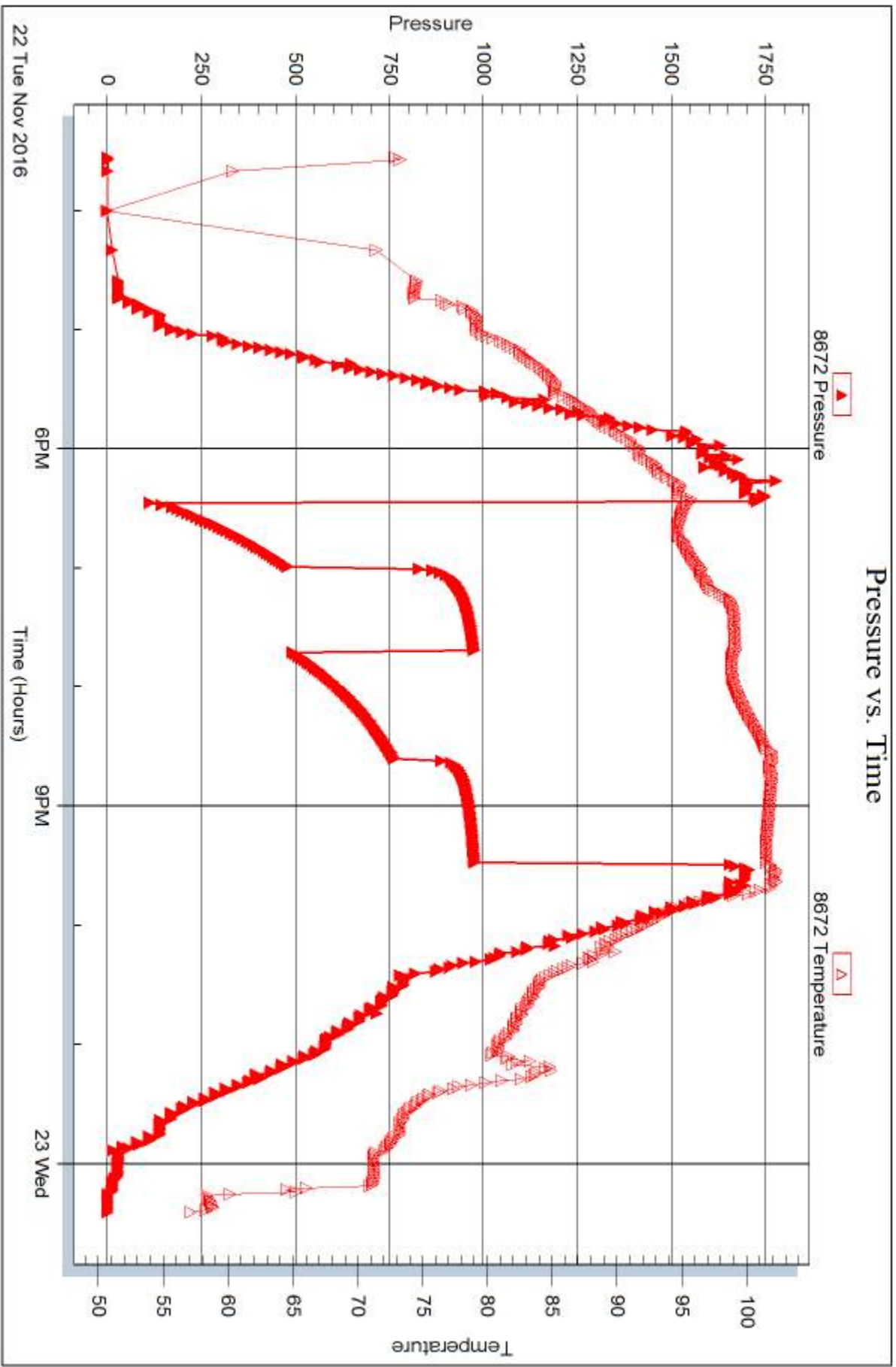
Serial #: 8672

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65676

Printed: 2016.11.30 @ 15:13:04



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.23 @ 17:48:15

End Date: 2016.11.24 @ 01:22:30

Job Ticket #: 65677 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:12:38



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65677

DST#: 2

ATTN: Luke Thompson

Test Start: 2016.11.23 @ 17:48:15

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:18:30

Time Test Ended: 01:22:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 3791.00 ft (KB) To 3821.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 3821.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 278.75 psig @ 3792.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.23

End Date:

2016.11.24

Last Calib.: 2016.11.24

Start Time: 17:48:15

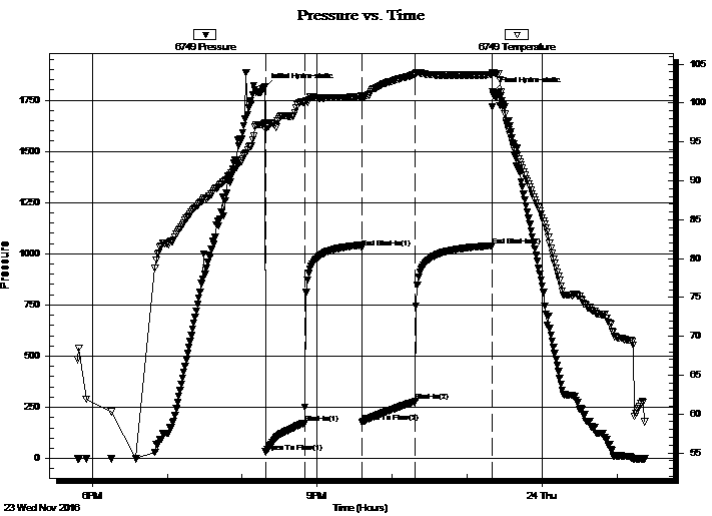
End Time:

01:22:30

Time On Btm: 2016.11.23 @ 20:18:15

Time Off Btm: 2016.11.23 @ 23:20:30

TEST COMMENT: IF: BOB in 10 min.
IS: Return blow built to 1/8" blow
FF: BOB in 15 min.
FS: Return blow built to 1/2" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.22	97.40	Initial Hydro-static
1	32.62	96.53	Open To Flow (1)
32	173.52	100.15	Shut-In(1)
78	1030.47	100.90	End Shut-In(1)
78	177.54	100.67	Open To Flow (2)
121	278.75	103.72	Shut-In(2)
182	1038.81	103.62	End Shut-In(2)
183	1793.21	103.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
236.00	ocmw 3%o 10%m 87%w	1.16
124.00	w cgom 3%w 5%g 5%o 87%m	1.74
278.00	gco 20%g 80%o	3.90
0.00	248 ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

ATTN: Luke Thompson

Job Ticket: 65677

DST#: 2

Test Start: 2016.11.23 @ 17:48:15

GENERAL INFORMATION:

Formation: LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:18:30

Time Test Ended: 01:22:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 3791.00 ft (KB) To 3821.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 3821.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8672

Inside

Press@RunDepth: psig @ 3792.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.23 End Date: 2016.11.24

Last Calib.: 2016.11.24

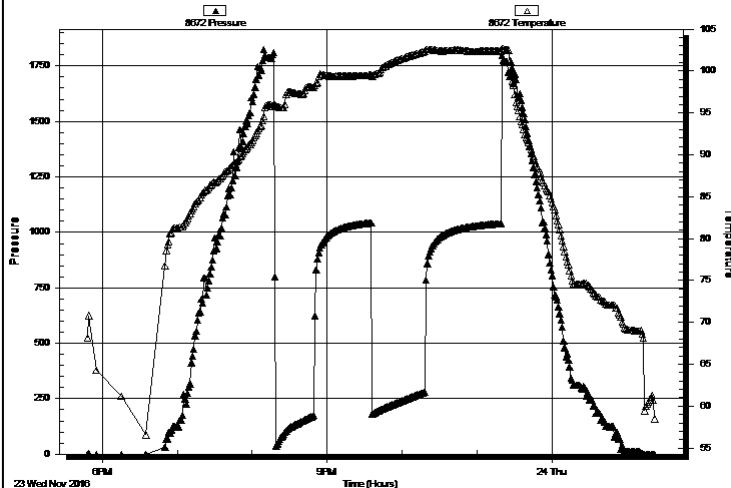
Start Time: 17:48:15 End Time: 01:22:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 10 min.
IS:Return blow built to 1/8" blow
FF:BOB in 15 min.
FS:Return blow built to 1/2" blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
236.00	ocmw 3%o 10%m 87%w	1.16
124.00	w cgom 3%w 5%g 5%o 87%m	1.74
278.00	gco 20%g 80%o	3.90
0.00	248 ft GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65677

DST#: 2

ATTN: Luke Thompson

Test Start: 2016.11.23 @ 17:48:15

Tool Information

Drill Pipe:	Length: 3555.00 ft	Diameter: 3.80 inches	Volume: 49.87 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 51.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3791.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	53.00 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			3768.00	
Shut In Tool	5.00			3773.00	
Hydraulic tool	5.00			3778.00	
Jars	5.00			3783.00	
Safety Joint	3.00			3786.00	
Packer	5.00			3791.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			3791.00	
Stubb	1.00			3792.00	
Recorder	0.00	8672	Inside	3792.00	
Recorder	0.00	6749	Outside	3792.00	
Perforations	23.00			3815.00	
Bullnose	5.00			3820.00	29.00 Anchor Tool

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65677

DST#: 2

ATTN: Luke Thompson

Test Start: 2016.11.23 @ 17:48:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 7.54 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 32 deg API
Water Salinity: 26000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
236.00	ocmw 3%o 10%m 87%w	1.161
124.00	w cgom 3%w 5%g 5%o 87%m	1.739
278.00	gco 20%g 80%o	3.900
0.00	248 ft GIP	0.000

Total Length: 638.00 ft Total Volume: 6.800 bbl

Num Fluid Samples: 0

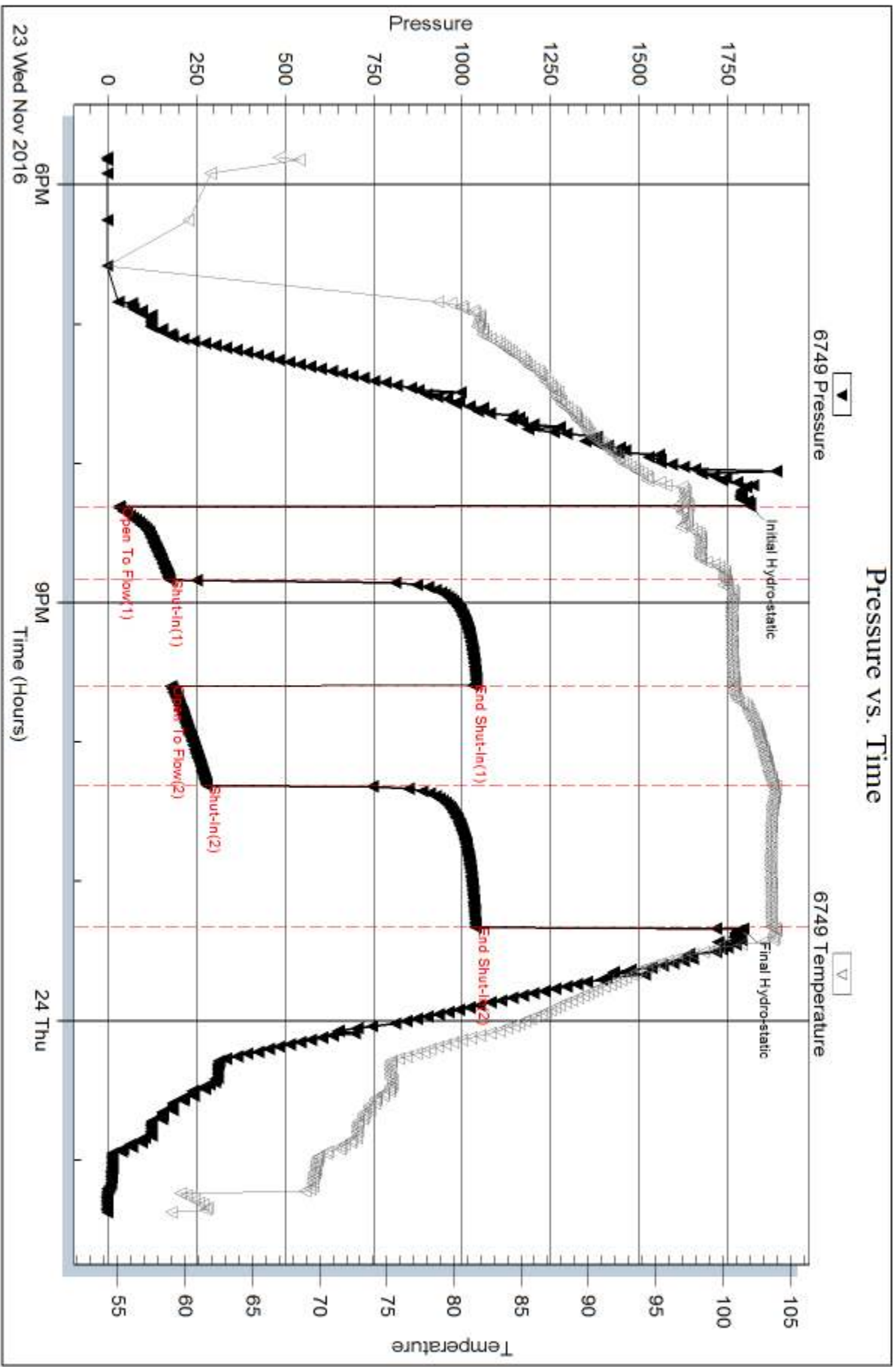
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 31 @ 50 corrected to 32
RW= .379@50.4 = 26000



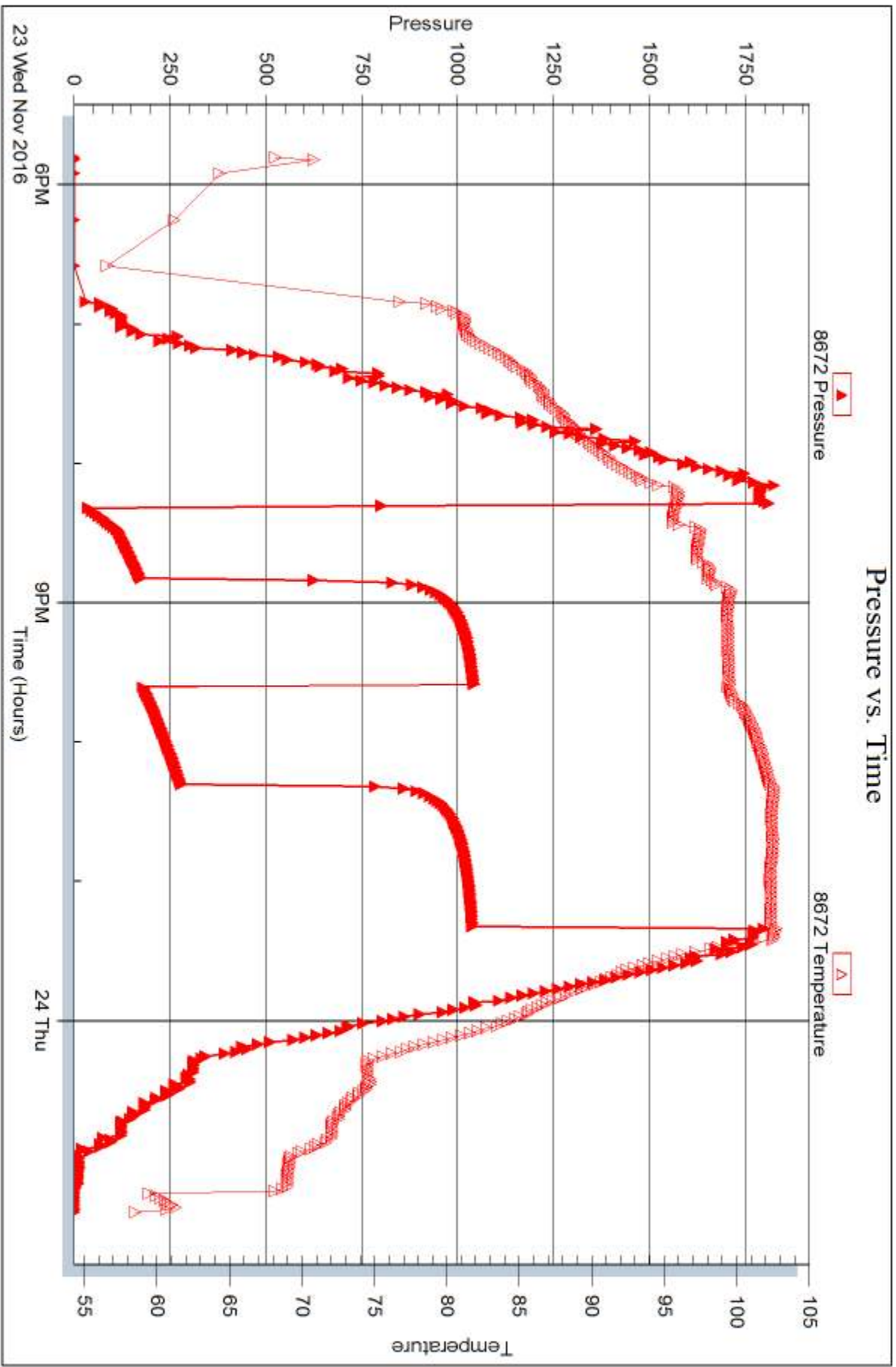
Serial #: 8672

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 65677

Printed: 2016.11.30 @ 15:12:39



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.24 @ 20:24:15

End Date: 2016.11.25 @ 03:11:30

Job Ticket #: 65678 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:11:10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65678

DST#: 3

ATTN: Luke Thompson

Test Start: 2016.11.24 @ 20:24:15

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:01:00

Time Test Ended: 03:11:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4004.00 ft (KB) To 4028.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4028.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 185.19 psig @ 4005.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.24

End Date:

2016.11.25

Last Calib.: 2016.11.25

Start Time: 20:24:15

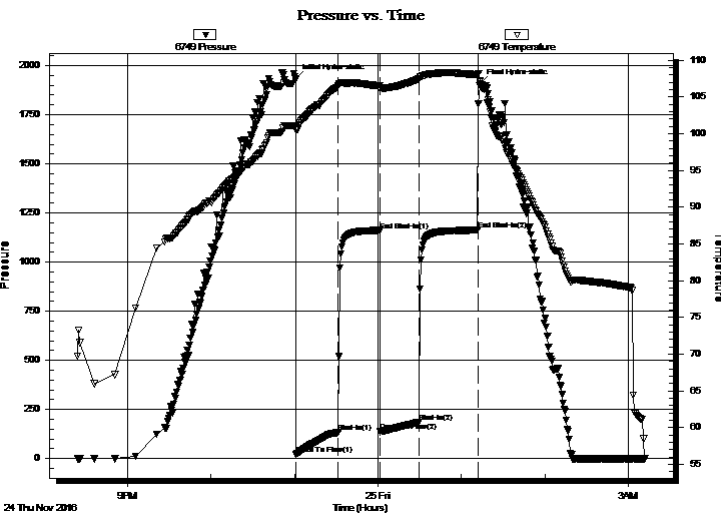
End Time:

03:11:30

Time On Btm: 2016.11.24 @ 23:00:45

Time Off Btm: 2016.11.25 @ 01:13:15

TEST COMMENT: IF: Built to 3 1/2" blow
IS: No return blow
FF: Built to 1" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1931.74	101.08	Initial Hydro-static
1	22.24	100.53	Open To Flow (1)
31	133.73	106.52	Shut-In(1)
61	1158.22	106.51	End Shut-In(1)
61	136.74	106.18	Open To Flow (2)
89	185.19	107.49	Shut-In(2)
131	1162.62	108.06	End Shut-In(2)
133	1907.80	107.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw 20% m 80% w	0.59
302.00	w cm 30% w 70% m	3.18

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

American Warrior Inc.
 P.O. Box 299
 Garden City KS 67846
 ATTN: Luke Thompson

17-25s-36w Kearny,KS

Gano #4-17 Twin

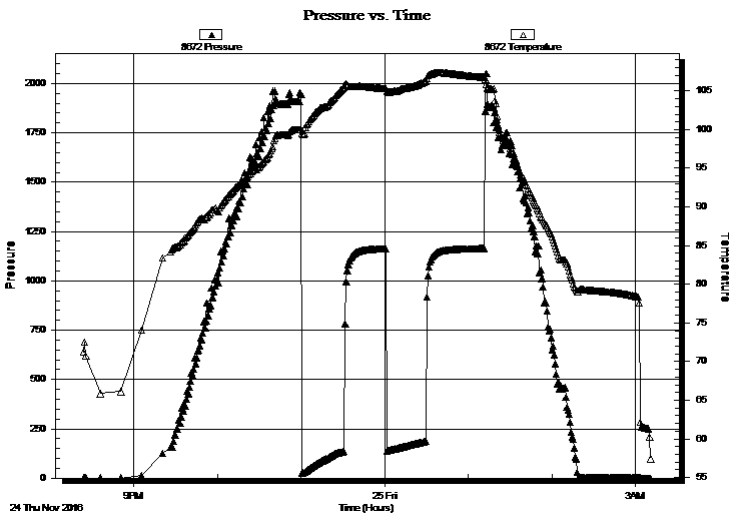
Job Ticket: 65678 **DST#: 3**
 Test Start: 2016.11.24 @ 20:24:15

GENERAL INFORMATION:

Formation:	LKC K		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	23:01:00		Tester: Mike Roberts
Time Test Ended:	03:11:30		Unit No: 81
Interval:	4004.00 ft (KB) To 4028.00 ft (KB) (TVD)		Reference Elevations: 3036.00 ft (KB)
Total Depth:	4028.00 ft (KB) (TVD)		3026.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Fair	KB to GR/CF: 10.00 ft

Serial #: 8672	Inside				
Press@RunDepth:	psig @	4005.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2016.11.24	End Date:	2016.11.25	Last Calib.:	2016.11.25
Start Time:	20:24:15	End Time:	03:11:15	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: Built to 3 1/2" blow
 IS: No return blow
 FF: Built to 1" blow
 FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw 20%m 80%w	0.59
302.00	w cm 30%w 70%m	3.18

* 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.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65678

DST#: 3

ATTN: Luke Thompson

Test Start: 2016.11.24 @ 20:24:15

Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 53.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4004.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	52.00 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			3977.00	
Shut In Tool	5.00			3982.00	
Hydraulic tool	5.00			3987.00	
Jars	5.00			3992.00	
Safety Joint	3.00			3995.00	
Packer	5.00			4000.00	28.00 Bottom Of Top Packer
Packer	4.00			4004.00	
Stubb	1.00			4005.00	
Recorder	0.00	8672	Inside	4005.00	
Recorder	0.00	6749	Outside	4005.00	
Perforations	18.00			4023.00	
Bullnose	5.00			4028.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65678

DST#: 3

ATTN: Luke Thompson

Test Start: 2016.11.24 @ 20:24:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26500 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.75 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	mcw 20%m 80%w	0.590
302.00	w cm 30%w 70%m	3.180

Total Length: 422.00 ft Total Volume: 3.770 bbl

Num Fluid Samples: 0

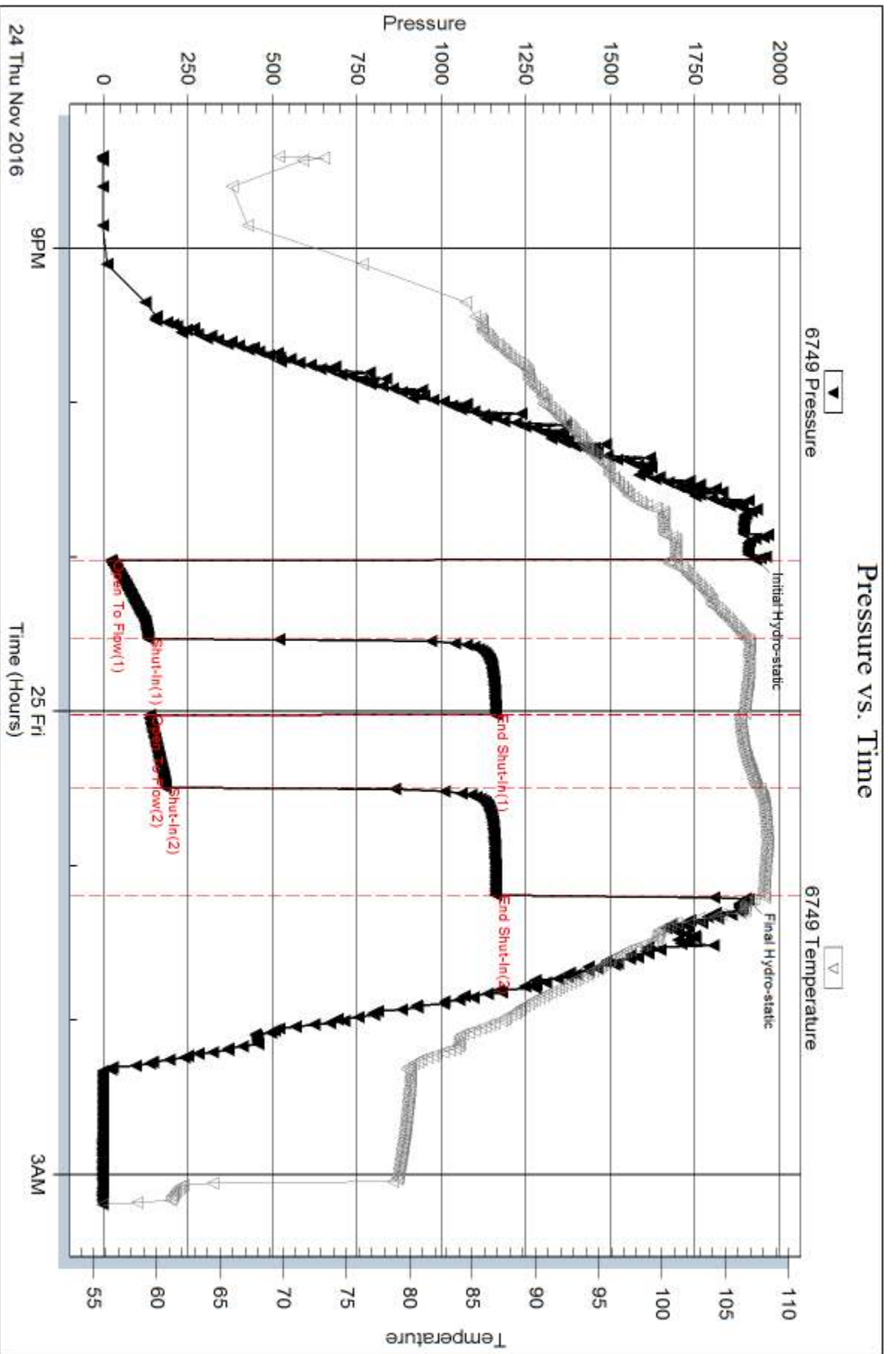
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .387@49.8=26500 ppm



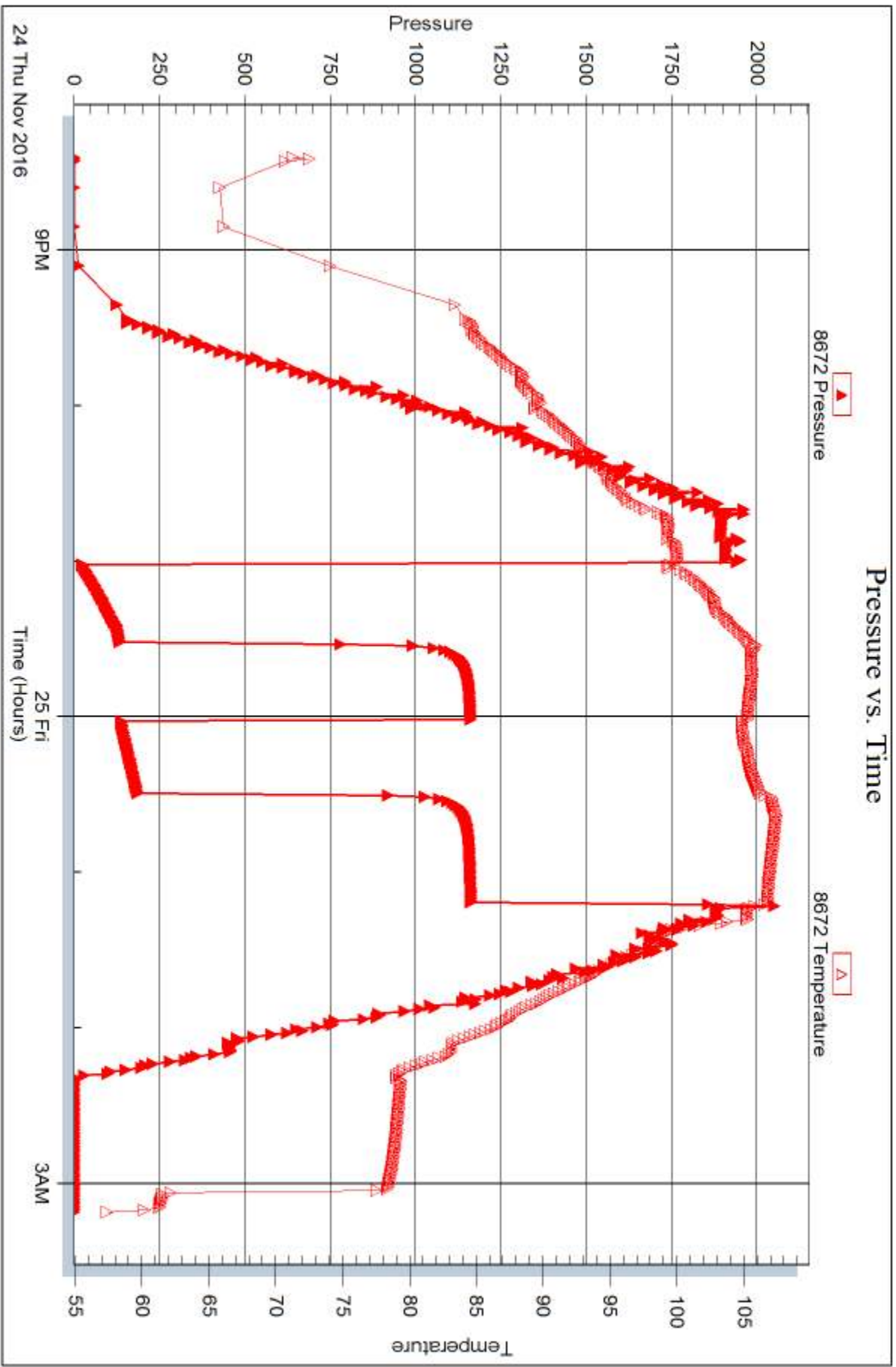
Serial #: 8672

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65678

Printed: 2016.11.30 @ 15:11:11



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.25 @ 00:38:15

End Date: 2016.11.25 @ 07:44:15

Job Ticket #: 65679 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:10:40

American Warrior Inc.

17-25s-36w Kearny,KS

Gano #4-17 Twin

DST # 4

Marmaton

2016.11.25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65679

DST#: 4

ATTN: Luke Thompson

Test Start: 2016.11.25 @ 00:38:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:37:00

Time Test Ended: 07:44:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4248.00 ft (KB) To 4258.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4258.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 179.29 psig @ 4249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.25 End Date: 2016.11.25

Last Calib.: 2016.11.26

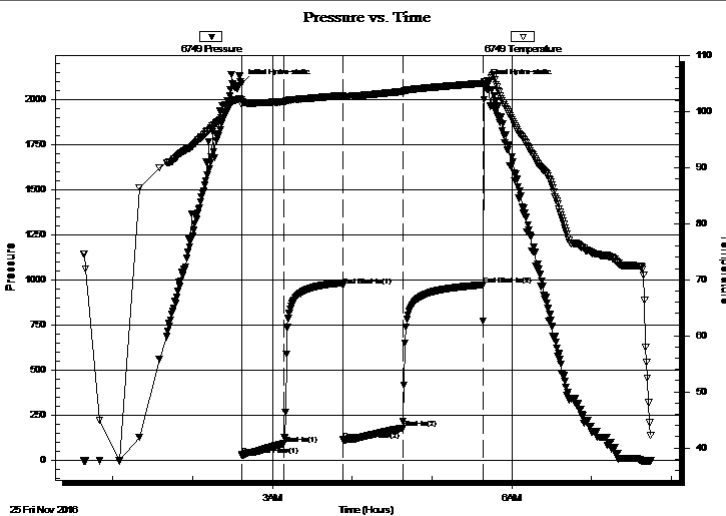
Start Time: 00:38:15 End Time: 07:44:15

Time On Btm: 2016.11.25 @ 02:36:45

Time Off Btm: 2016.11.25 @ 05:39:15

TEST COMMENT: IF:BOB in 2 min.
IS:BOB in 18 min.
FF:BOB instantly
FS:BOB in 18 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.08	102.13	Initial Hydro-static
1	28.96	101.23	Open To Flow (1)
32	92.47	101.75	Shut-In(1)
77	969.72	102.85	End Shut-In(1)
77	114.38	102.61	Open To Flow (2)
122	179.29	103.57	Shut-In(2)
182	973.13	105.03	End Shut-In(2)
183	2088.18	105.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
732.00	gco 10%g 90%0	8.12
0.00	1612 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65679

DST#: 4

ATTN: Luke Thompson

Test Start: 2016.11.25 @ 00:38:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:37:00

Time Test Ended: 07:44:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4248.00 ft (KB) To 4258.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4258.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: psig @ 4249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.25 End Date: 2016.11.25

Last Calib.: 2016.11.26

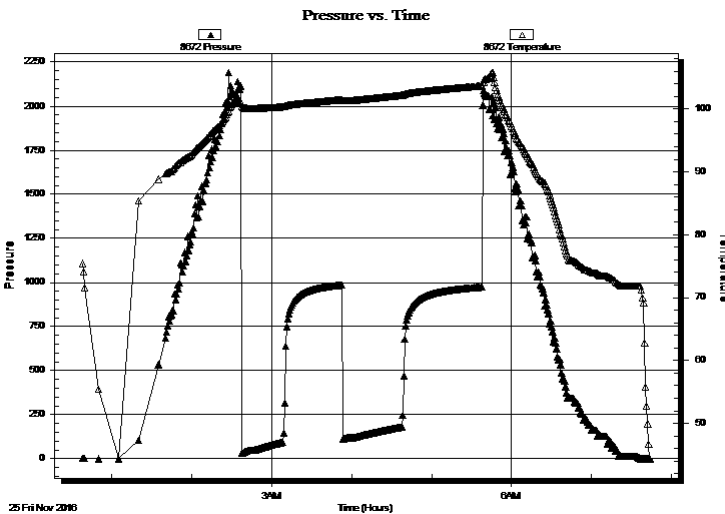
Start Time: 00:38:15 End Time: 07:44:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 2 min.
IS:BOB in 18 min.
FF:BOB instantly
FS:BOB in 18 min.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
732.00	gco 10%g 90%0	8.12
0.00	1612 GIP	0.00

* 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.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65679

DST#: 4

ATTN: Luke Thompson

Test Start: 2016.11.25 @ 00:38:15

Tool Information

Drill Pipe:	Length: 3994.00 ft	Diameter: 3.80 inches	Volume: 56.03 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 57.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	71000.00 lb
Depth to Top Packer:	4248.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	38.00 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			4221.00	
Shut In Tool	5.00			4226.00	
Hydraulic tool	5.00			4231.00	
Jars	5.00			4236.00	
Safety Joint	3.00			4239.00	
Packer	5.00			4244.00	28.00 Bottom Of Top Packer
Packer	4.00			4248.00	
Stubb	1.00			4249.00	
Recorder	0.00	8672	Inside	4249.00	
Recorder	0.00	6749	Outside	4249.00	
Perforations	4.00			4253.00	
Bullnose	5.00			4258.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65679

DST#: 4

ATTN: Luke Thompson

Test Start: 2016.11.25 @ 00:38:15

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:

0 ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
732.00	gco 10%g 90%0	8.118
0.00	1612 GIP	0.000

Total Length: 732.00 ft Total Volume: 8.118 bbl

Num Fluid Samples: 0

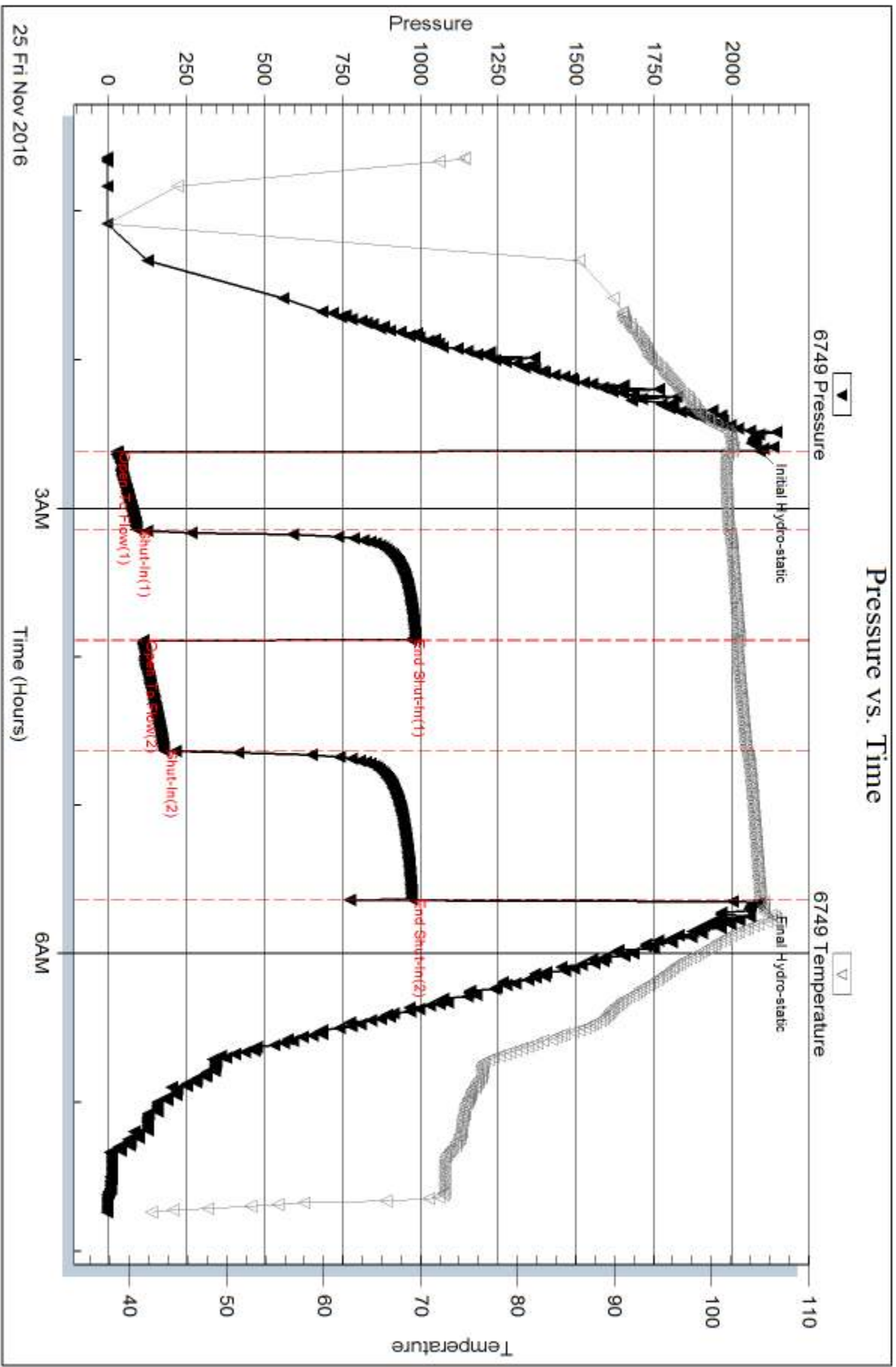
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 31 @ 30 corrected to 34 @60



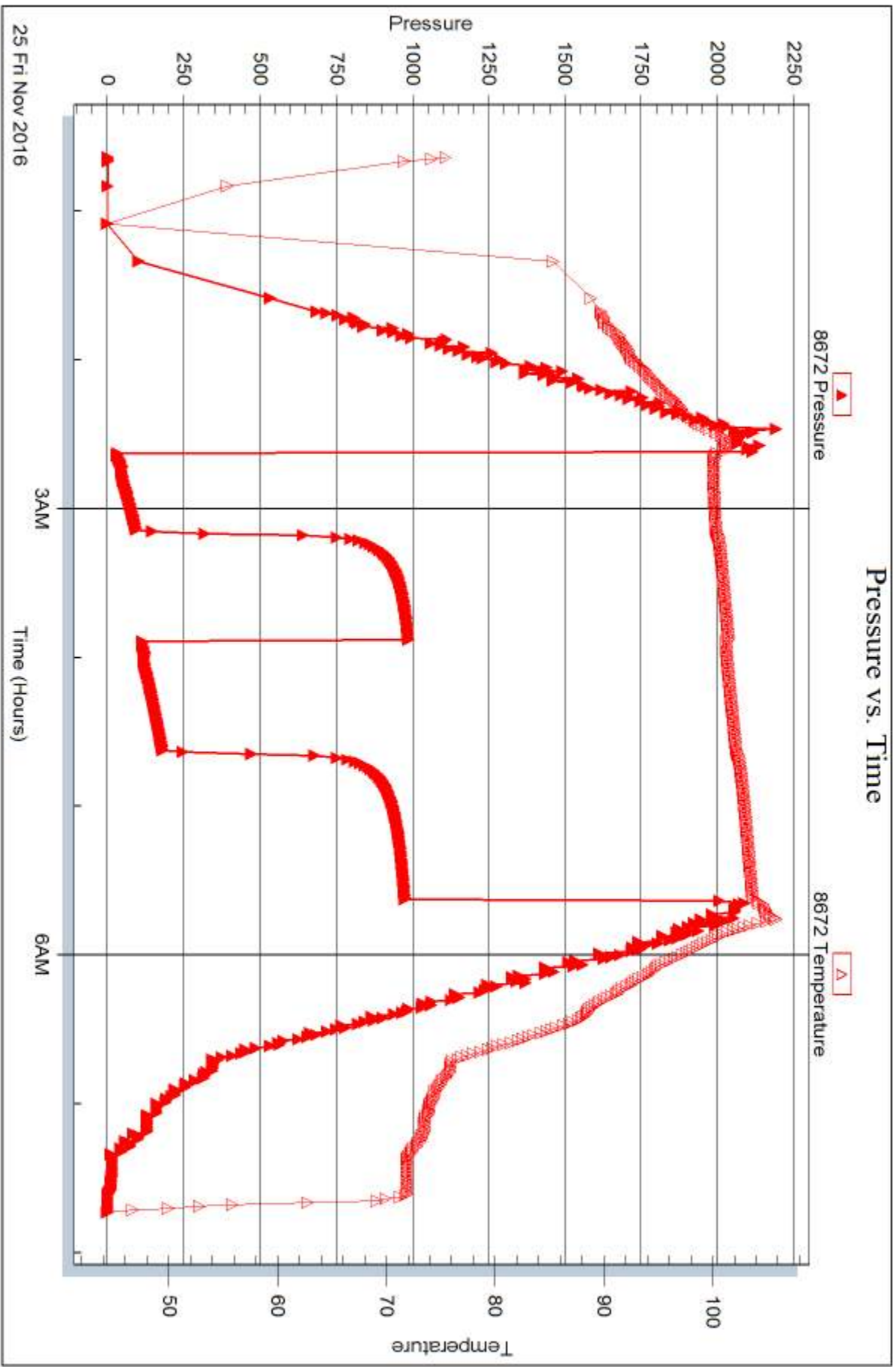
Serial #: 8672

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 65679

Printed: 2016.11.30 @ 15:10:41



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.26 @ 23:47:15

End Date: 2016.11.27 @ 05:12:15

Job Ticket #: 65680 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:09:23



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65680

DST#: 5

ATTN: Luke Thompson

Test Start: 2016.11.26 @ 23:47:15

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:54:45

Time Test Ended: 05:12:15

Test Type: Conventional Straddle (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4308.00 ft (KB) To 4326.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4349.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 22.61 psig @ 4312.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.26

End Date: 2016.11.27

Last Calib.: 2016.11.27

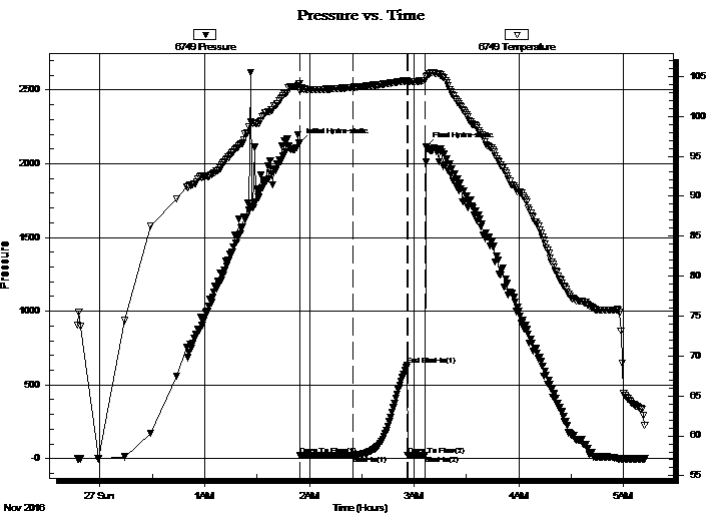
Start Time: 23:47:15

End Time: 05:12:15

Time On Btm: 2016.11.27 @ 01:54:30

Time Off Btm: 2016.11.27 @ 03:07:00

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: No blow
FS: Pulled test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.42	104.09	Initial Hydro-static
1	19.99	103.20	Open To Flow (1)
31	22.61	103.64	Shut-In(1)
62	634.31	104.46	End Shut-In(1)
62	22.90	104.27	Open To Flow (2)
72	23.69	104.48	Shut-In(2)
73	2115.34	105.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m with oil spots in tool	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.
P.O. Box 299
Garden City KS 67846
ATTN: Luke Thompson

17-25s-36w Kearny, KS
Gano #4-17 Twin
Job Ticket: 65680 **DST#: 5**
Test Start: 2016.11.26 @ 23:47:15

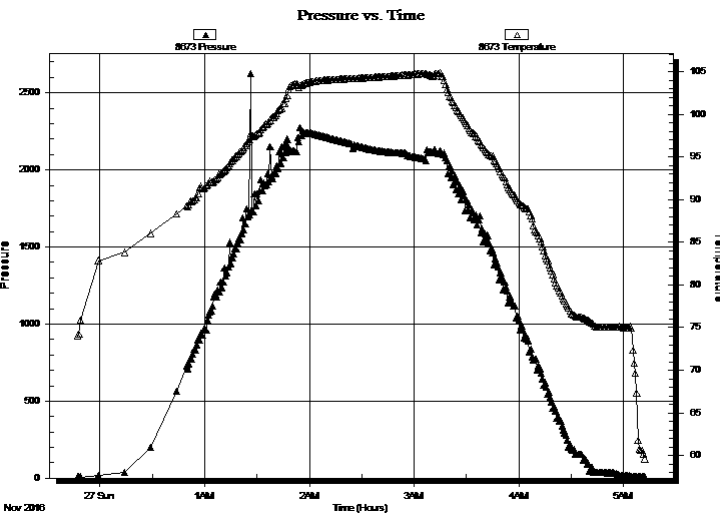
GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
Time Tool Opened: 01:54:45 Tester: Mike Roberts
Time Test Ended: 05:12:15 Unit No: 81

Interval: **4308.00 ft (KB) To 4326.00 ft (KB) (TVD)** Reference Elevations: 3036.00 ft (KB)
Total Depth: 4349.00 ft (KB) (TVD) 3026.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8673 Inside
Press@RunDepth: psig @ 4344.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.11.26 End Date: 2016.11.27 Last Calib.: 2016.11.27
Start Time: 23:47:15 End Time: 05:12:15 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: No blow
FS: Pulled test



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

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	mud 100% m w ith oil spots in tool	0.02

* Recovery from multiple tests

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65680

DST#: 5

ATTN: Luke Thompson

Test Start: 2016.11.26 @ 23:47:15

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:54:45

Time Test Ended: 05:12:15

Test Type: Conventional Straddle (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: **4308.00 ft (KB) To 4326.00 ft (KB) (TVD)**

Total Depth: 4349.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3036.00 ft (KB)

3026.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8672**

Inside

Press@RunDepth: psig @ 4312.00 ft (KB)

Start Date: 2016.11.26

End Date:

2016.11.27

Start Time: 23:47:15

End Time:

05:12:00

Capacity: 8000.00 psig

Last Calib.:

2016.11.27

Time On Btm:

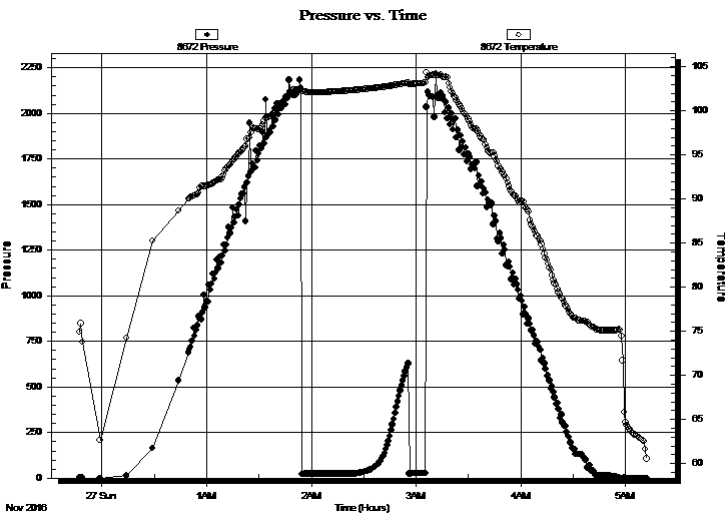
Time Off Btm:

TEST COMMENT: IF: Built to 1/8" blow

IS: No return blow

FF: No blow

FS: Pulled test



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m with oil spots in tool	0.02

* 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.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65680

DST#: 5

ATTN: Luke Thompson

Test Start: 2016.11.26 @ 23:47:15

Tool Information

Drill Pipe:	Length: 4058.00 ft	Diameter: 3.80 inches	Volume: 56.92 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4308.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	4349.00 ft			
Interval between Packers:	41.00 ft			
Tool Length:	69.00 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			4281.00	
Shut In Tool	5.00			4286.00	
Hydraulic tool	5.00			4291.00	
Jars	5.00			4296.00	
Safety Joint	3.00			4299.00	
Packer	5.00			4304.00	28.00 Bottom Of Top Packer
Packer	4.00			4308.00	
Stubb	1.00			4309.00	
Perforations	3.00			4312.00	
Recorder	0.00	8672	Inside	4312.00	
Recorder	0.00	6749	Outside	4312.00	
Perforations	10.00			4322.00	
Blank Off Sub	1.00			4323.00	
Packer - Shale	3.00			4326.00	
Stubb	1.00			4327.00	
Perforations	17.00			4344.00	
Recorder	0.00	8673	Inside	4344.00	
Bullnose	5.00			4349.00	41.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65680

DST#: 5

ATTN: Luke Thompson

Test Start: 2016.11.26 @ 23:47:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100% m with oil spots in tool	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

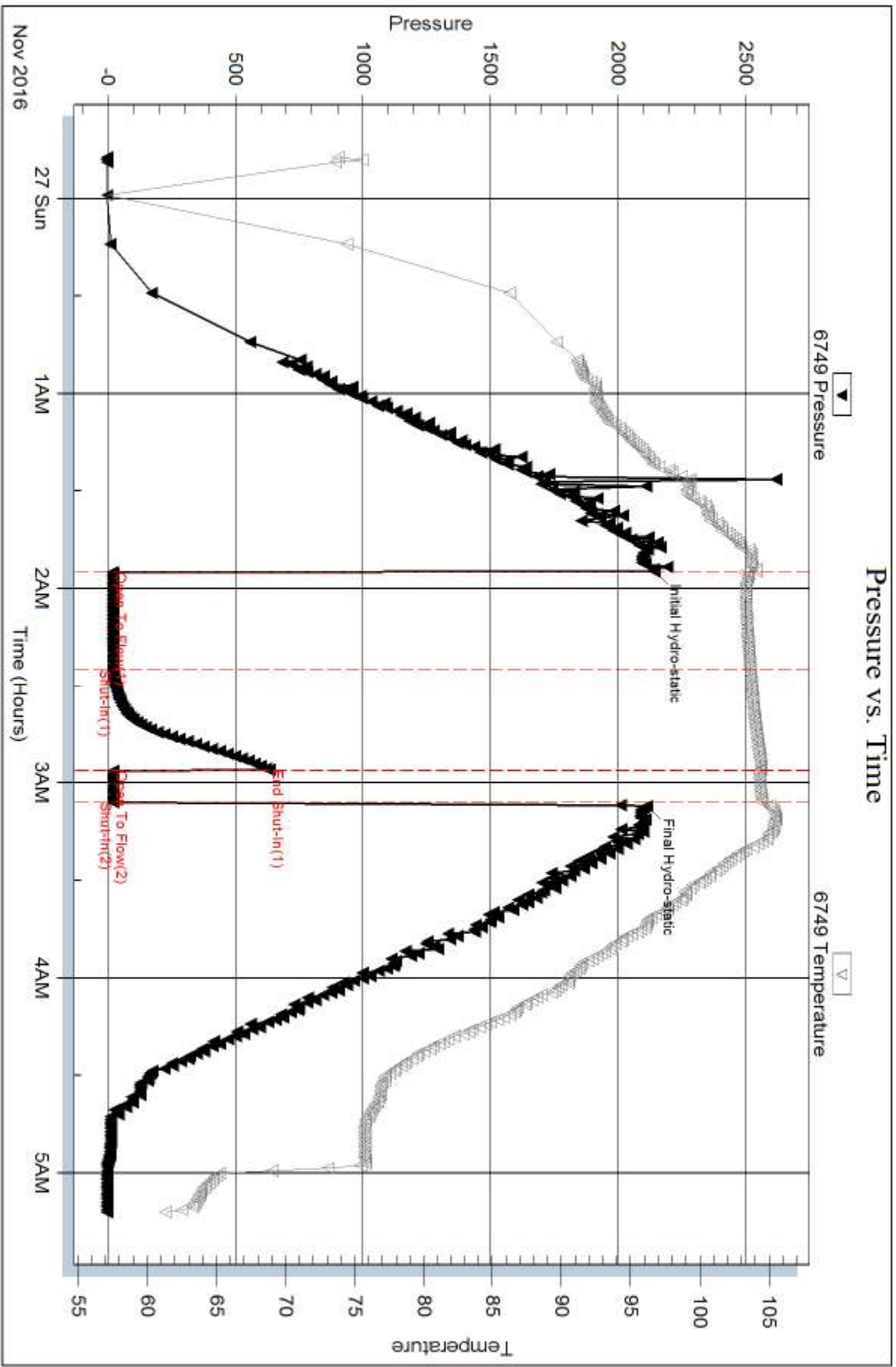
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



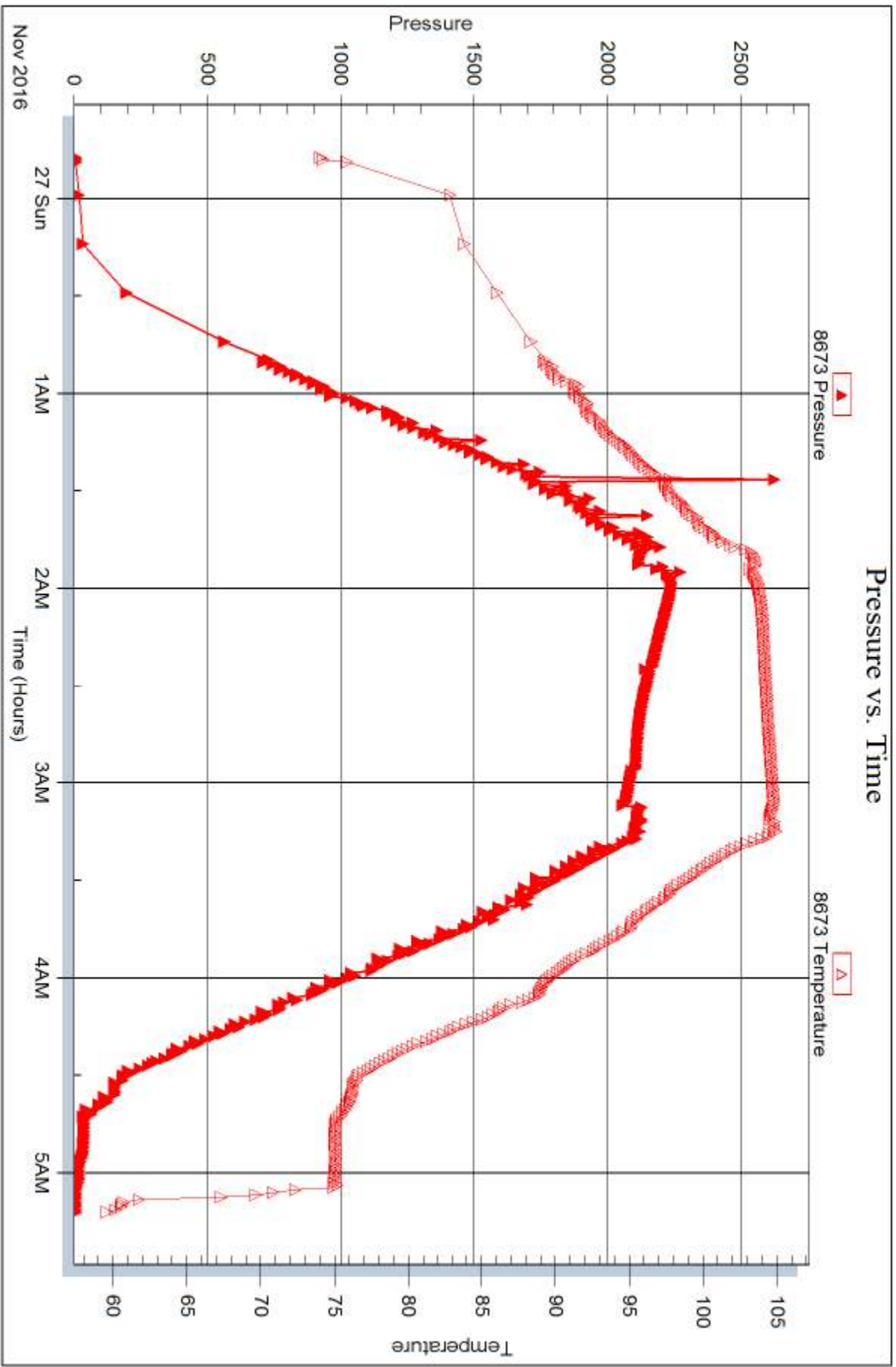
Serial #: 8673

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 65680

Printed: 2016.11.30 @ 15:09:24

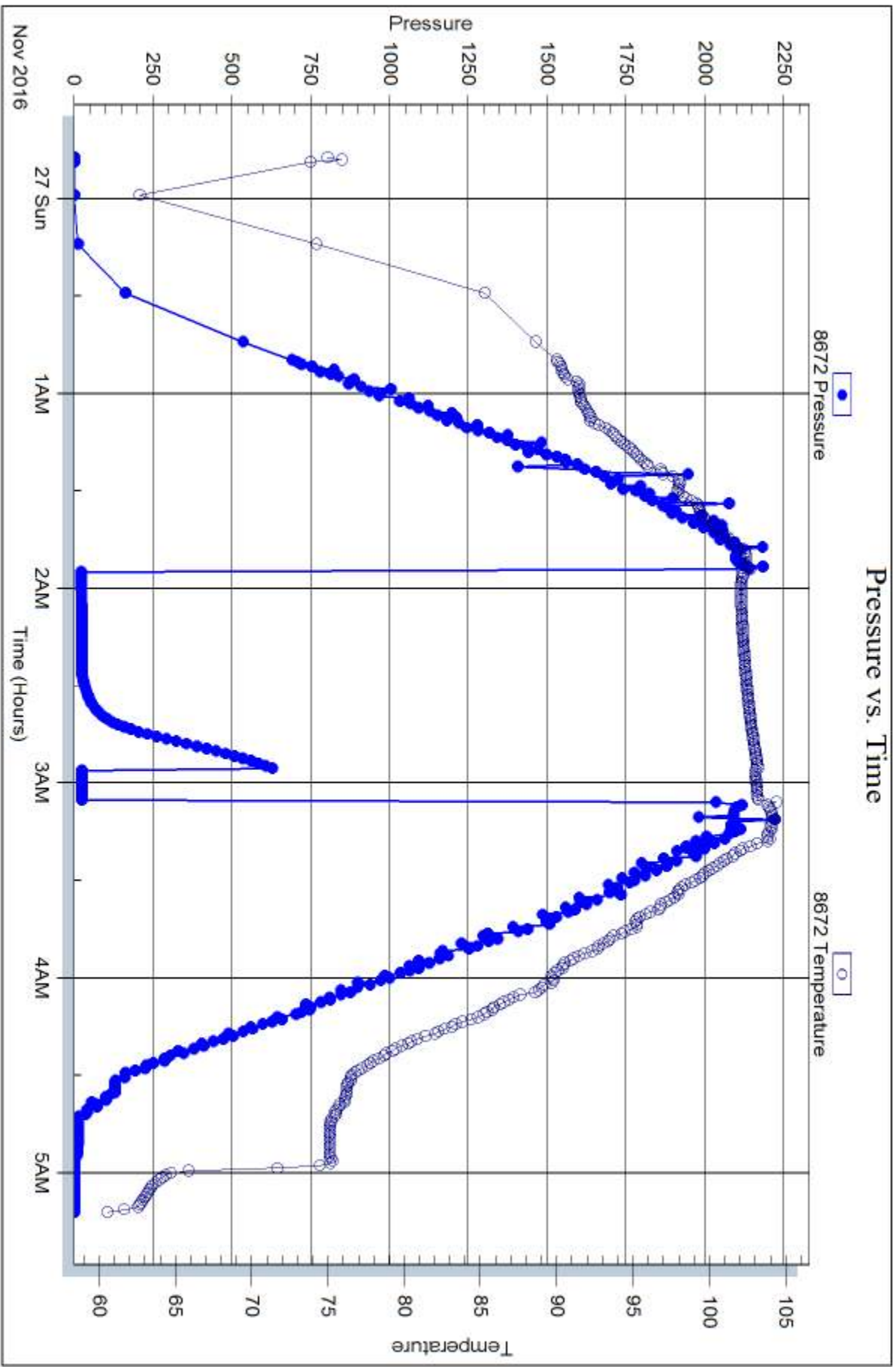
Serial #: 8672

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65680

Printed: 2016.11.30 @ 15:09:24



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.28 @ 01:03:00

End Date: 2016.11.28 @ 07:29:45

Job Ticket #: 65681 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.11.30 @ 15:07:03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65681

DST#: 6

ATTN: Luke Thompson

Test Start: 2016.11.28 @ 01:03:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:08:30

Time Test Ended: 07:29:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 47112.0 ft (KB) To 4800.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4800.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 82.84 psig @ 4780.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.28

End Date: 2016.11.28

Last Calib.: 2016.11.29

Start Time: 01:03:00

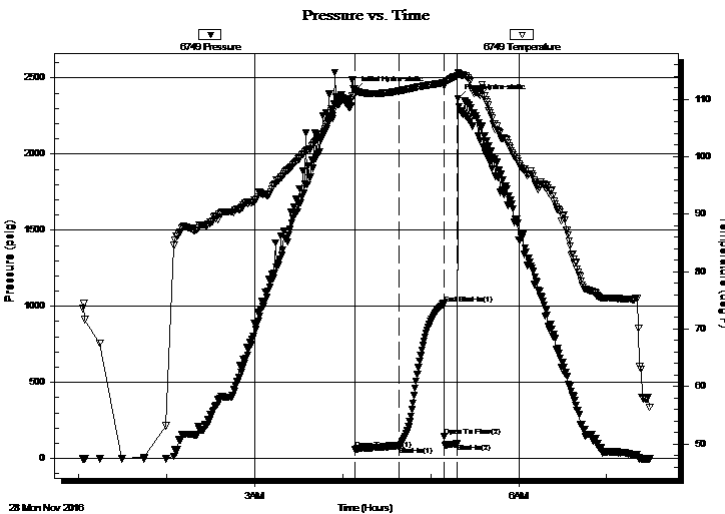
End Time: 07:29:45

Time On Btm: 2016.11.28 @ 04:08:15

Time Off Btm: 2016.11.28 @ 05:18:45

TEST COMMENT: IF: Built to 1/2" blow
IS: No return blow
FF: No blow
FS: Pulled test

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2416.51	111.86	Initial Hydro-static
1	62.39	110.74	Open To Flow (1)
31	82.84	111.42	Shut-In(1)
61	1017.50	112.80	End Shut-In(1)
61	143.49	112.34	Open To Flow (2)
70	97.10	114.07	Shut-In(2)
71	2362.20	114.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud 100% m	0.30

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65681 **DST#: 6**

ATTN: Luke Thompson

Test Start: 2016.11.28 @ 01:03:00

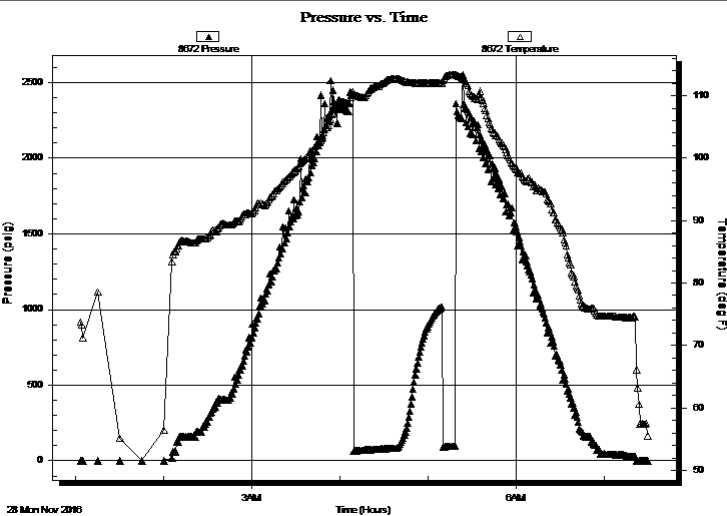
GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 04:08:30 Tester: Mike Roberts
Time Test Ended: 07:29:45 Unit No: 81

Interval: **47112.0 ft (KB) To 4800.00 ft (KB) (TVD)** Reference Elevations: 3036.00 ft (KB)
Total Depth: 4800.00 ft (KB) (TVD) 3026.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8672 Inside
Press@RunDepth: psig @ 4780.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.11.28 End Date: 2016.11.28 Last Calib.: 2016.11.29
Start Time: 01:03:15 End Time: 07:29:45 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Built to 1/2" blow
IS: No return blow
FF: No blow
FS: Pulled test



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud 100% m	0.30

* 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.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65681

DST#: 6

ATTN: Luke Thompson

Test Start: 2016.11.28 @ 01:03:00

Tool Information

Drill Pipe:	Length: 4467.00 ft	Diameter: 3.80 inches	Volume: 62.66 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4712.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	112.00 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			4689.00	
Shut In Tool	5.00			4694.00	
Hydraulic tool	5.00			4699.00	
Jars	5.00			4704.00	
Safety Joint	3.00			4707.00	
Packer	5.00			4712.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4712.00	
Stubb	1.00			4713.00	
Perforations	2.00			4715.00	
Change Over Sub	1.00			4716.00	
Drill Pipe	63.00			4779.00	
Change Over Sub	1.00			4780.00	
Recorder	0.00	8672	Inside	4780.00	
Recorder	0.00	6749	Outside	4780.00	
Perforations	15.00			4795.00	
Bullnose	5.00			4800.00	88.00 Anchor Tool
Total Tool Length:	112.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65681

DST#: 6

ATTN: Luke Thompson

Test Start: 2016.11.28 @ 01:03:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud 100%m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

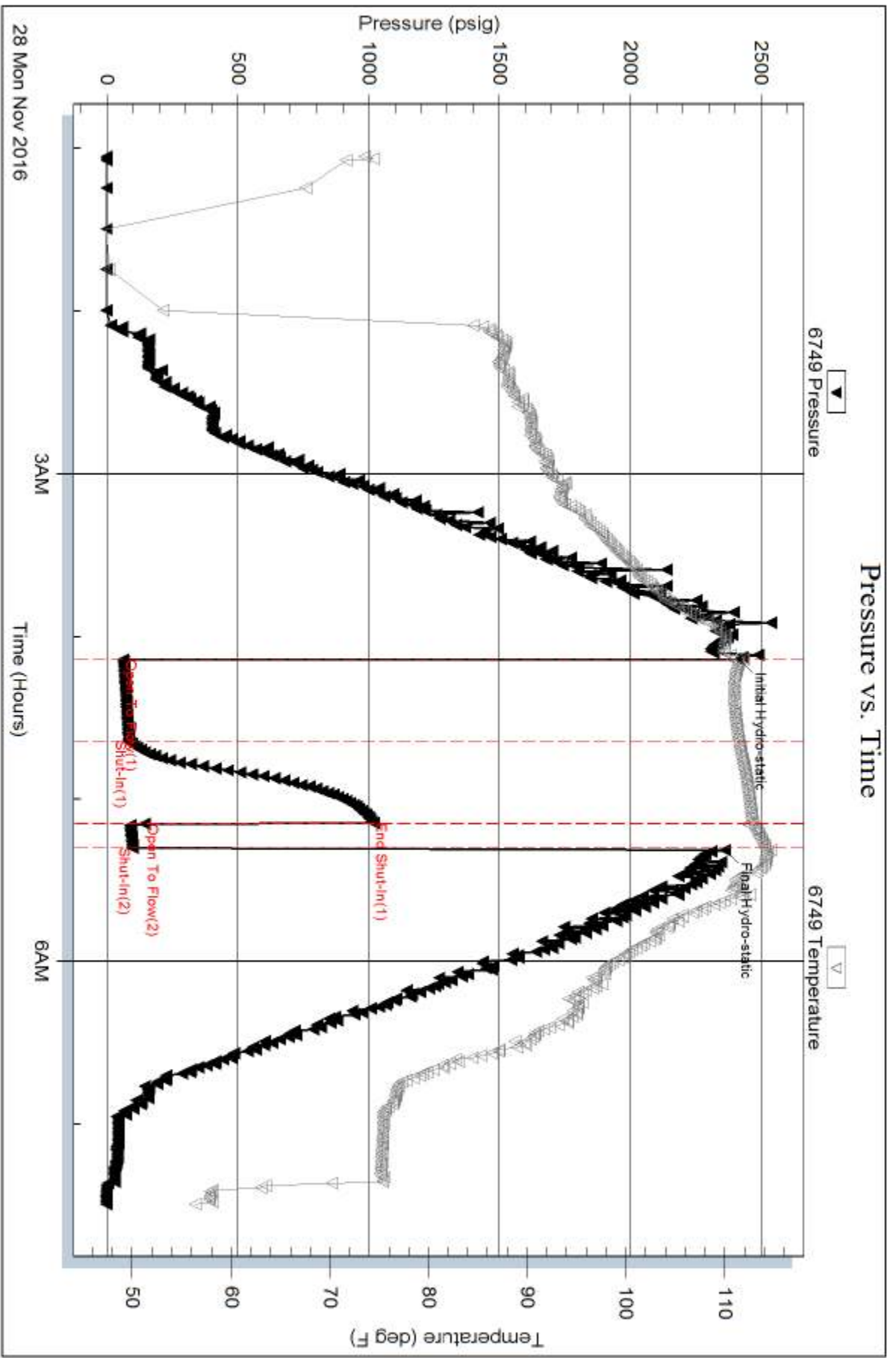
Recovery Comments:

Serial #: 6749

Outside American Warrior Inc.

Gano #4-17 Tw in

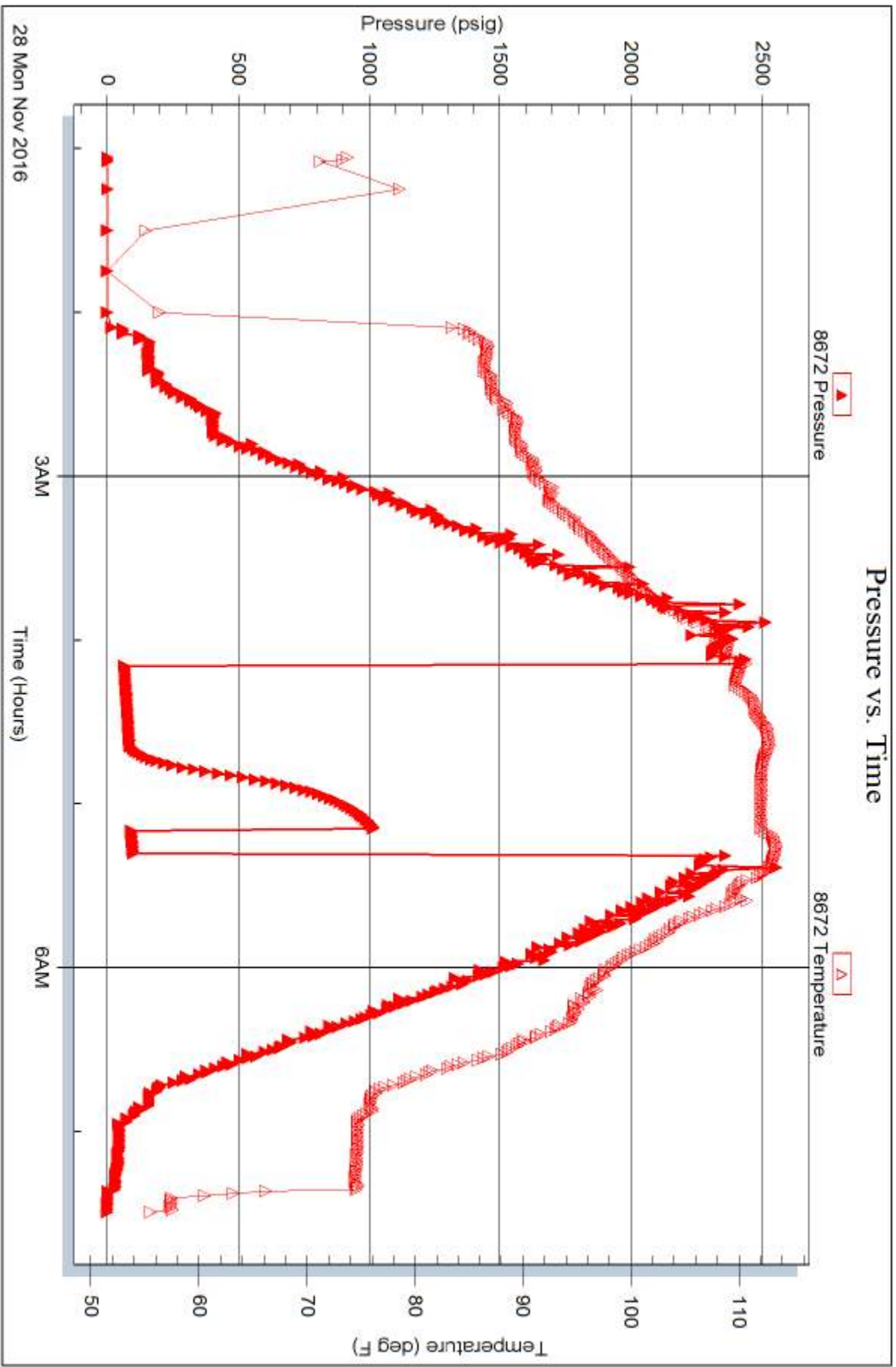
DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 65681

Printed: 2016.11.30 @ 15:07:04





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65676**

Well Name & No. Gano 4-17 Twin Test No. 1 Date 11-22-16
 Company American Warrior Inc Elevation 3036 KB 3024 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25s Rge. 36w Co. ~~Finney~~ Kearny State KS

Interval Tested 3619-3679 Zone Tested Toronto
 Anchor Length 60 Drill Pipe Run 3369 Mud Wt. 8.8
 Top Packer Depth 3614 Drill Collars Run 236 Vis 55
 Bottom Packer Depth 3619 Wt. Pipe Run Ø WL 8.0
 Total Depth 3679 Chlorides 1600 ppm System LCM 2
 Blow Description IF: BOB in 2 Min
IS: No Return Blow
FF: BOB in 3 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>Ø</u>	<u>6" Free Oil</u>	<u>100</u>			
<u>372</u>	<u>Feet of OCLWM</u>	<u>3</u>	<u>47</u>	<u>50</u>	
<u>310</u>	<u>Feet of OCMW</u>	<u>3</u>	<u>67</u>	<u>30</u>	
<u>620</u>	<u>Feet of OCMW</u>	<u>3</u>	<u>92</u>	<u>5</u>	
<u>236</u>	<u>Feet of SW</u>		<u>100</u>		

Rec Total 1538 BHT 103 Gravity 23 API RW 1375 @ 47.7% Chlorides 25000 ppm

(A) Initial Hydrostatic 1726 Test \$1050.00/- T-On Location 13:50
 (B) First Initial Flow 106 Jars \$250.00/- T-Started 15:33
 (C) First Final Flow 479 Safety Joint \$75.00/- T-Open 18:27
 (D) Initial Shut-In 974 Circ Sub NC T-Pulled 21:27
 (E) Second Initial Flow 490 Hourly Standby _____ T-Out 00:24
 (F) Second Final Flow 764 Mileage 150RT = \$200.00/- Comments _____
 (G) Final Shut-In 975 Sampler 112.50 _____
 (H) Final Hydrostatic 1706 Straddle _____ Ruined Shale Packer _____
 Shale Packer \$250.00/- Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1737.50
 Accessibility 1737.50 MP/DST Disc't _____
 Sub Total \$1825.00/-

Approved By _____ Our Representative Mike Roberts

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. **65677**

Well Name & No. Grano 4-17 Twin Test No. 2 Date 11-23-16
 Company American Warrior Inc Elevation 3036 KB 3026 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25s Rge. 36w Co. Kearny State KS

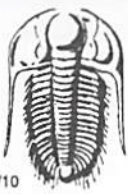
Interval Tested 3791-3821 Zone Tested Kansing
 Anchor Length 29 Drill Pipe Run 3555 Mud Wt. 8.9
 Top Packer Depth 3786 Drill Collars Run 236 Vis 52
 Bottom Packer Depth 3791 Wt. Pipe Run 0 WL 7.6
 Total Depth 3821 Chlorides 3500 ppm System LCM 2
 Blow Description IF: BOB in 10 Min
IS: Return Blow Built to 1/8'
FF: BOB in 15 Min
FS:

Rec	Feet of	%gas	%oil	%water	%mud
278	9c0	20	80		
124	gcmw wgom	5	5	3	87
236	0cmw (collars)		3	87	10
0	248 GIP	100			

Rec Total 638 BHT 104 Gravity 32 API RW 379 @ 50.4 F Chlorides 26000 ppm
 (A) Initial Hydrostatic 1813 Test \$ 1050.00 T-On Location 16:30
 (B) First Initial Flow 32 Jars \$ 250.00 T-Started ~~17:48~~ 17:48?
 (C) First Final Flow 173 Safety Joint \$ 75.00 T-Open ~~18:20~~ 20:20
 (D) Initial Shut-In 1030 Circ Sub NC T-Pulled 23:20
 (E) Second Initial Flow 177 Hourly Standby _____ T-Out 01:22
 (F) Second Final Flow 278 Mileage 150 RT \$ 200.00 Comments _____
 (G) Final Shut-In 1038 Sampler _____ 112.50 _____
 (H) Final Hydrostatic 1793 Straddle _____ Ruined Shale Packer _____
 Shale Packer \$ 250.00 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1737.50
 Accessibility _____ 1737.50 MP/DST Disc't _____
 Sub Total \$ 1825.00

Approved By _____ Our Representative Mite Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65678**

Well Name & No. Gano 4-17 Twin Test No. 3 Date 11-24-16
 Company American Warrior Inc. Elevation 3036 KB 3026 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25S Rge. 36W Co. Kearny State KS

Interval Tested 4004-4028 Zone Tested K
 Anchor Length 24 Drill Pipe Run 3745 Mud Wt. 8.9
 Top Packer Depth 3999 Drill Collars Run 236 Vis 58
 Bottom Packer Depth 4004 Wt. Pipe Run Ø WL 6.8
 Total Depth 4028 Chlorides 3900 ppm System LCM 2

Blow Description IF: Built to 3 1/2" Blow
FS: No Return Blow
FF: Built to 1" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>302</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>120</u>	<u>MCSW</u>		<u>80</u>	<u>20</u>	

Rec Total 422 BHT 108 Gravity — API RW 387 @ 49.1° F Chlorides 26500 ppm

(A) Initial Hydrostatic <u>1931</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00</u>	T-On Location <u>19:20</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00</u>	T-Started <u>20:24</u>
(C) First Final Flow <u>133</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00</u>	T-Open <u>23:00</u>
(D) Initial Shut-In <u>1158</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>01:00</u>
(E) Second Initial Flow <u>136</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>03:11</u>
(F) Second Final Flow <u>185</u>	<input checked="" type="checkbox"/> Mileage <u>150 KT = \$200.00</u>	Comments
(G) Final Shut-In <u>1162</u>	<input type="checkbox"/> Sampler <u>112.50</u>	
(H) Final Hydrostatic <u>1907</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Accessibility <u>1587.50</u>	Total <u>1587.50</u>
Final Flow <u>30</u>	Sub Total <u>\$1675.00</u>	MP/DST Disc't
Final Shut-In <u>30</u>		

Approved By _____ Our Representative Alto Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65679**

Well Name & No. Grano 4-17 Twin Test No. 4 Date 11-26-16
 Company American Warrior Inc. Elevation 3036 KB 3026 GL
 Address P. O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25S Rge. 36w Co. Kearny State KS

Interval Tested 4248-4258 Zone Tested Marmaton
 Anchor Length 10 Drill Pipe Run 3994 Mud Wt. 9.1
 Top Packer Depth 4243 Drill Collars Run 236 Vis 7.2
 Bottom Packer Depth 4248 Wt. Pipe Run 0 WL 7.2
 Total Depth 4258 Chlorides 4100 ppm System LCM 2

Blow Description IF: BOB in 2 Min
IS: BOB in 18 Min
FFI BOB instantly
FS: BOB in 18 Min

Rec	Feet of	%gas	%oil	%water	%mud
<u>732</u>	<u>900</u>	<u>10</u>	<u>90</u>		
<u>0</u>	<u>GIP = 1612'</u>	<u>100</u>			

Rec Total 732 BHT Gravity 34 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2088 Test \$1150.00/- T-On Location 12:15
 (B) First Initial Flow 28 Jars \$250.00/- T-Started 12:38
 (C) First Final Flow 92 Safety Joint \$75.00/- T-Open 02:38
 (D) Initial Shut-In 969 Circ Sub _____ T-Pulled 05:38
 (E) Second Initial Flow 114 Hourly Standby _____ T-Out 07:44
 (F) Second Final Flow 179 Mileage ISORT = \$200.00/- Comments _____
 (G) Final Shut-In 973 Sampler 112.50 _____
 (H) Final Hydrostatic 2088 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1587.50
 Accessibility 1587.50 MP/DST Disc't _____
 Sub Total \$1675.00/-

Approved By _____ Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65680**

Well Name & No. Crano 4-17-Twin Test No. 5 Date 11-27-16
 Company American Warrior Inc. Elevation 3036 KB 3026 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25 S Rge. 36 W Co. Kearny State KS

Interval Tested 4308-4326-4349 Zone Tested Pawnee
 Anchor Length 18 Drill Pipe Run 4058 Mud Wt. 9.1
 Top Packer Depth 4303 Drill Collars Run 236 Vis 64
 Bottom Packer Depth 4308 Wt. Pipe Run 6 WL 7.2
 Total Depth 4349 Chlorides 5900 ppm System LCM 3
 Blow Description IF: Built to 1/8" Blow
IS: No Return Blow
FF: NO Blow
FS: Pulled Test

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD with oil spots in tool</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 105 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2143</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>11:10</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>11:47</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>01:55</u>
(D) Initial Shut-In <u>643</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>03:10</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>05:12</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>150 RT = \$200.00/-</u>	Comments
(G) Final Shut-In <u>pulled test</u>	<input type="checkbox"/> Sampler <u>112.50</u>	
(H) Final Hydrostatic <u>2115</u>	<input checked="" type="checkbox"/> Straddle <u>\$600.00/-</u>	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>\$250.00/-</u>	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>10 pull</u>	<input type="checkbox"/> Day Standby	Total <u>2437.50</u>
Final Shut-In	<input type="checkbox"/> Accessibility <u>2437.50</u>	MP/DST Disc't
	Sub Total <u>\$2525.00/-</u>	

Approved By _____ Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65681**

Well Name & No. Gano 4-17 Twin Test No. 6 Date 11-28-16
 Company American Warrior Inc. Elevation 3036 KB 3026 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25S Rge. 36w Co. Keamy State KS

Interval Tested 4712-4800 Zone Tested Morrow
 Anchor Length 88 Drill Pipe Run 4467 Mud Wt. 9.3
 Top Packer Depth 4707 Drill Collars Run 236 Vis 43
 Bottom Packer Depth 4712 Wt. Pipe Run Ø WL 9.6
 Total Depth 4800 Chlorides 4900 ppm System LCM 2

Blow Description IF: Built to 1/2" Blow
IS: No Return Blow
FF: No Blow
FS: pulled Test

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2416</u>	<input checked="" type="checkbox"/> Test <u>\$ 1150.00/-</u>	T-On Location <u>22:30</u>
(B) First Initial Flow <u>62</u>	<input checked="" type="checkbox"/> Jars <u>\$ 250.00/-</u>	T-Started <u>01:03</u>
(C) First Final Flow <u>82</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$ 75.00/-</u>	T-Open <u>04:08</u>
(D) Initial Shut-In <u>1017</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>05:18</u>
(E) Second Initial Flow <u>143</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>01:15</u>
(F) Second Final Flow <u>97</u>	<input checked="" type="checkbox"/> Mileage <u>150 RT = \$ 200.00/-</u>	Comments <u>Loaded Tools</u>
(G) Final Shut-In _____	<input type="checkbox"/> Sampler <u>X 2 112.50+112.50</u>	<u>11-29-16 23:00</u>
(H) Final Hydrostatic <u>2362</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>\$ 250.00/-</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>pull</u>	<input type="checkbox"/> Day Standby _____	Total <u>1950.00</u>
	<input type="checkbox"/> Accessibility <u>1950.00</u>	MP/DST Disc't _____
	Sub Total <u>\$1925.00/-</u>	

Approved By _____ Our Representative Mike Roberts

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