



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

O'Brate-Finney #1-15

15-25s-31w Finney,KS

Start Date: 2014.05.16 @ 03:47:00

End Date: 2014.05.16 @ 11:50:30

Job Ticket #: 57070 DST #: 1

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

Printed: 2014.05.20 @ 15:10:32



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc.
PO Box 399
Garden City, KS 67846
ATTN: Kevin Timson

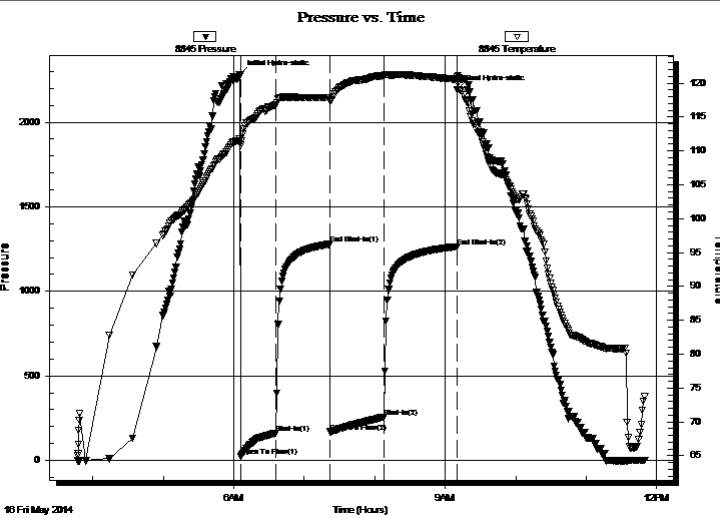
15-25s-31w Finney,KS
O'Brate-Finney #1-15
Job Ticket: 57070 **DST#: 1**
Test Start: 2014.05.16 @ 03:47:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:05:45
Time Test Ended: 11:50:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Samuel Esparza
Unit No: 71
Interval: **4530.00 ft (KB) To 4578.00 ft (KB) (TVD)**
Reference Elevations: 2770.00 ft (KB)
Total Depth: 4578.00 ft (KB) (TVD) 2759.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8845 Inside
Press@RunDepth: 256.38 psig @ 4531.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.16 End Date: 2014.05.16 Last Calib.: 2014.05.16
Start Time: 03:47:05 End Time: 11:50:29 Time On Btm: 2014.05.16 @ 06:05:30
Time Off Btm: 2014.05.16 @ 09:10:00

TEST COMMENT: IF: BOB @ 17 min.
IS: No Return.
FF: BOB @ 24 min.
FS: Weak Surface Return died @ 15 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.76	111.82	Initial Hydro-static
1	24.41	110.81	Open To Flow (1)
31	161.96	116.82	Shut-In(1)
77	1279.00	117.83	End Shut-In(1)
77	169.40	117.35	Open To Flow (2)
123	256.38	121.09	Shut-In(2)
185	1264.25	120.58	End Shut-In(2)
185	2189.85	120.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	WCM 15m 85w	3.67
90.00	WOCM 5 35w 60m	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

15-25s-31w Finney,KS

PO Box 399
Garden City, KS 67846

O'Brate-Finney #1-15

Job Ticket: 57070

DST#: 1

ATTN: Kevin Timson

Test Start: 2014.05.16 @ 03:47:00

Tool Information

Drill Pipe:	Length: 4273.00 ft	Diameter: 3.80 inches	Volume: 59.94 bbl	Tool Weight: 2000.00 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4530.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4503.00	
Shut In Tool	5.00			4508.00	
Hydraulic tool	5.00			4513.00	
Jars	5.00			4518.00	
Safety Joint	3.00			4521.00	
Packer	5.00			4526.00	28.00 Bottom Of Top Packer
Packer	4.00			4530.00	
Stubb	1.00			4531.00	
Recorder	0.00	6772	Outside	4531.00	
Recorder	0.00	8845	Inside	4531.00	
Perforations	9.00			4540.00	
Change Over Sub	1.00			4541.00	
Drill Pipe	31.00			4572.00	
Change Over Sub	1.00			4573.00	
Bullnose	5.00			4578.00	48.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

15-25s-31w Finney,KS

PO Box 399
Garden City, KS 67846

O'Brate-Finney #1-15

Job Ticket: 57070 **DST#: 1**

ATTN: Kevin Timson

Test Start: 2014.05.16 @ 03:47:00

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: 50000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	WCM 15m 85w	3.669
90.00	WOCM 5 35w 60m	1.262

Total Length: 510.00 ft Total Volume: 4.931 bbl

Num Fluid Samples: 0

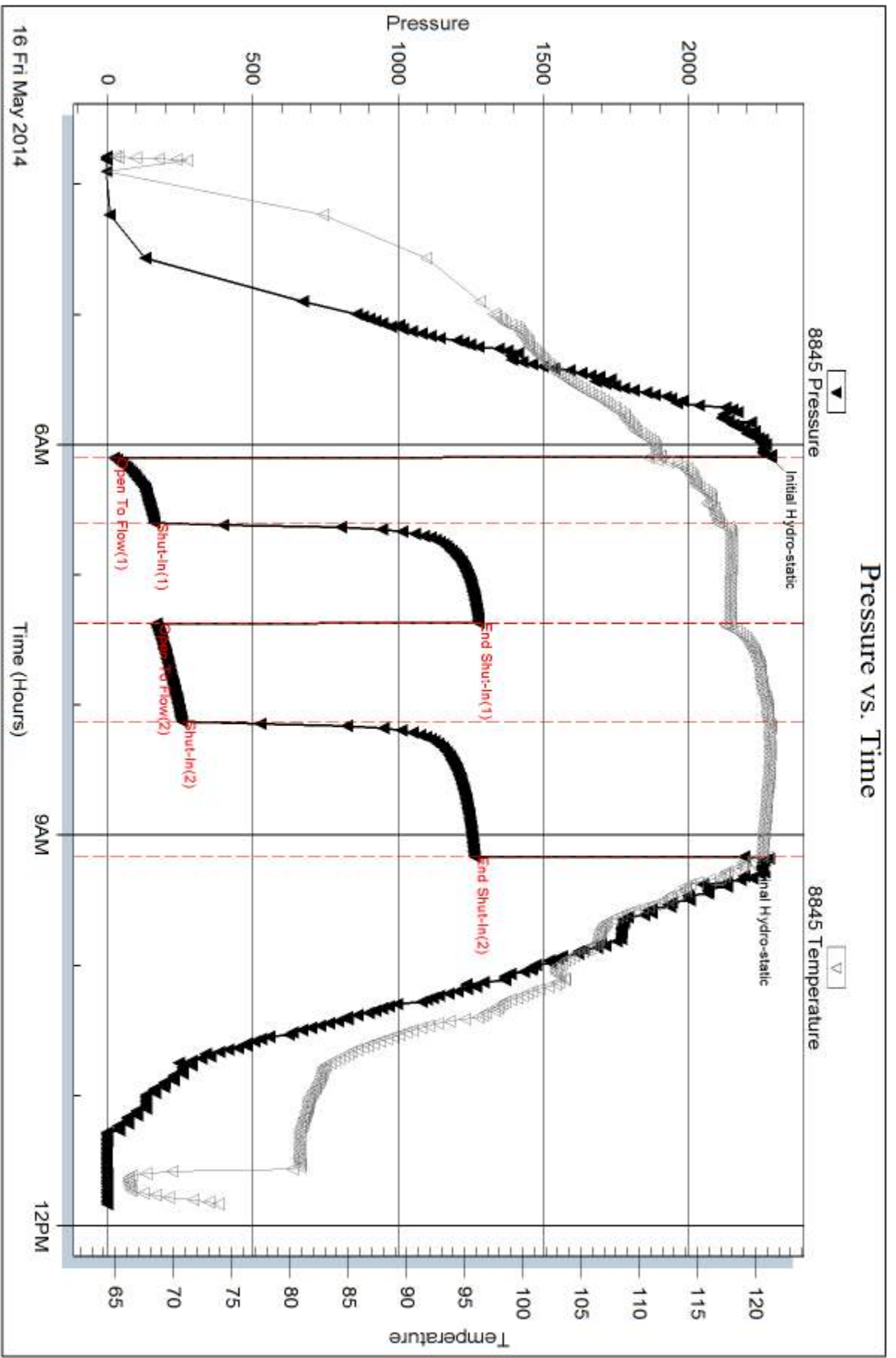
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity: .139 @ 76 degrees= 50,000

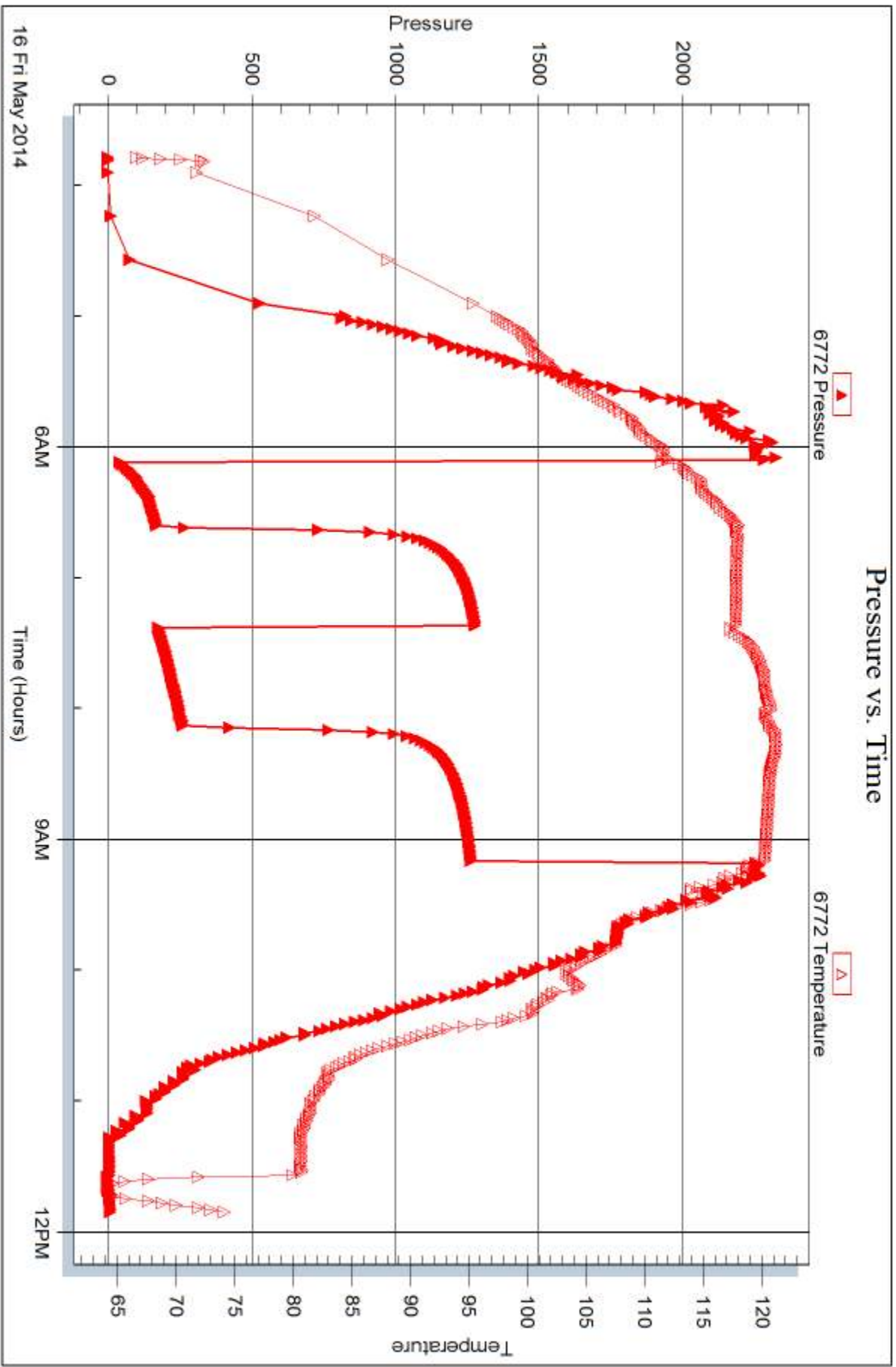


Serial #: 6772

Outside American Warrior, Inc.

OBrate-Finney #1-15

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 57070

Printed: 2014.05.20 @ 15:10:34



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

O'Brate-Finney #1-15

15-25s-31w Finney,KS

Start Date: 2014.05.17 @ 11:15:00

End Date: 2014.05.17 @ 18:00:00

Job Ticket #: 57071 DST #: 2

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

Printed: 2014.05.20 @ 15:09:33



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc.
 PO Box 399
 Garden City, KS 67846
 ATTN: Kevin Timson

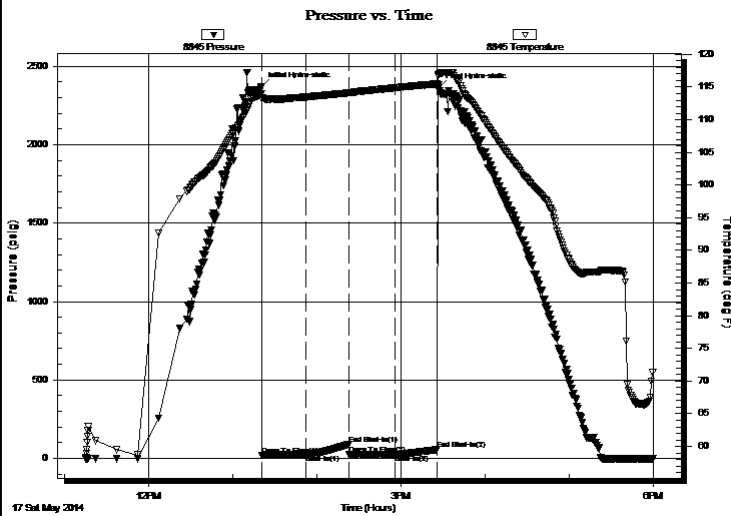
15-25s-31w Finney,KS
O'Brate-Finney #1-15
 Job Ticket: 57071 **DST#: 2**
 Test Start: 2014.05.17 @ 11:15:00

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:20:45
 Time Test Ended: 18:00:00
Interval: 4697.00 ft (KB) To 4786.00 ft (KB) (TVD)
 Total Depth: 4786.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Samuel Esparza
 Unit No: 71
 Reference Elevations: 2770.00 ft (KB)
 2759.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8845 Inside
 Press@RunDepth: 24.77 psig @ 4698.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.17 End Date: 2014.05.17 Last Calib.: 2014.05.17
 Start Time: 11:15:05 End Time: 17:59:59 Time On Btm: 2014.05.17 @ 13:20:30
 Time Off Btm: 2014.05.17 @ 15:27:00

TEST COMMENT: IF: 1/2" Blow died back to 1/4" Blow .
 IS: No Return.
 FF: No Blow .
 FS: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2370.94	114.01	Initial Hydro-static
1	21.10	113.25	Open To Flow (1)
32	23.50	113.46	Shut-In(1)
63	89.94	114.11	End Shut-In(1)
63	23.68	114.09	Open To Flow (2)
96	24.77	114.88	Shut-In(2)
126	56.72	115.49	End Shut-In(2)
127	2363.37	116.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m	0.07

* 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.

15-25s-31w Finney,KS

PO Box 399
Garden City, KS 67846

O'Brate-Finney #1-15

Job Ticket: 57071

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.05.17 @ 11:15:00

Tool Information

Drill Pipe:	Length: 4457.00 ft	Diameter: 3.80 inches	Volume: 62.52 bbl	Tool Weight: 2000.00 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 63.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4697.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4670.00	
Shut In Tool	5.00			4675.00	
Hydraulic tool	5.00			4680.00	
Jars	5.00			4685.00	
Safety Joint	3.00			4688.00	
Packer	5.00			4693.00	28.00 Bottom Of Top Packer
Packer	4.00			4697.00	
Stubb	1.00			4698.00	
Recorder	0.00	6772	Outside	4698.00	
Recorder	0.00	8845	Inside	4698.00	
Perforations	18.00			4716.00	
Change Over Sub	1.00			4717.00	
Drill Pipe	63.00			4780.00	
Change Over Sub	1.00			4781.00	
Bullnose	5.00			4786.00	89.00 Bottom Packers & Anchor

Total Tool Length: 117.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

15-25s-31w Finney,KS

PO Box 399
Garden City, KS 67846

O'Brate-Finney #1-15

Job Ticket: 57071 **DST#: 2**

ATTN: Kevin Timson

Test Start: 2014.05.17 @ 11:15:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

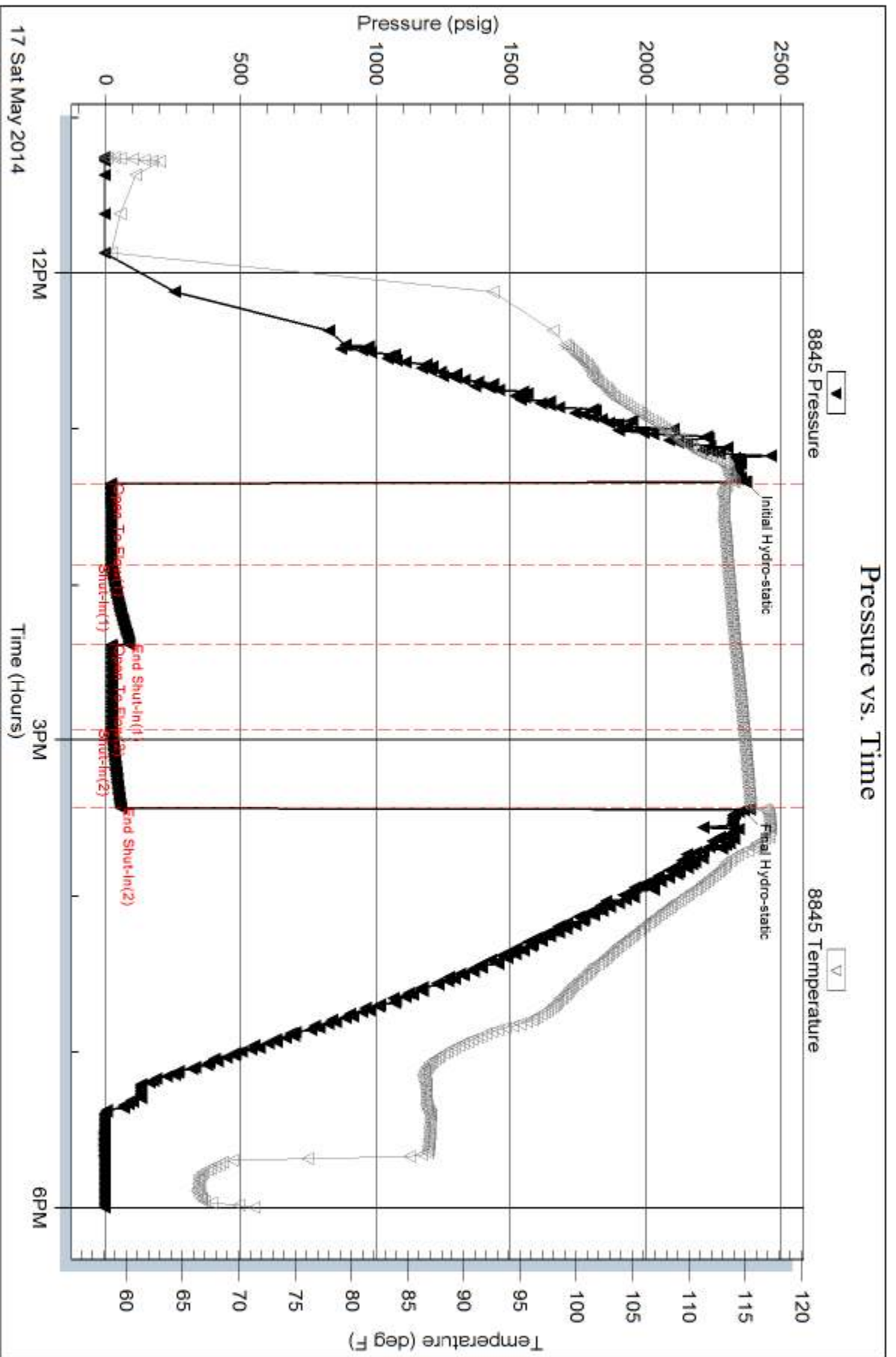
Serial #: 8845

Inside

American Warrior, Inc.

O'Brate-Finney #1-15

DST Test Number: 2

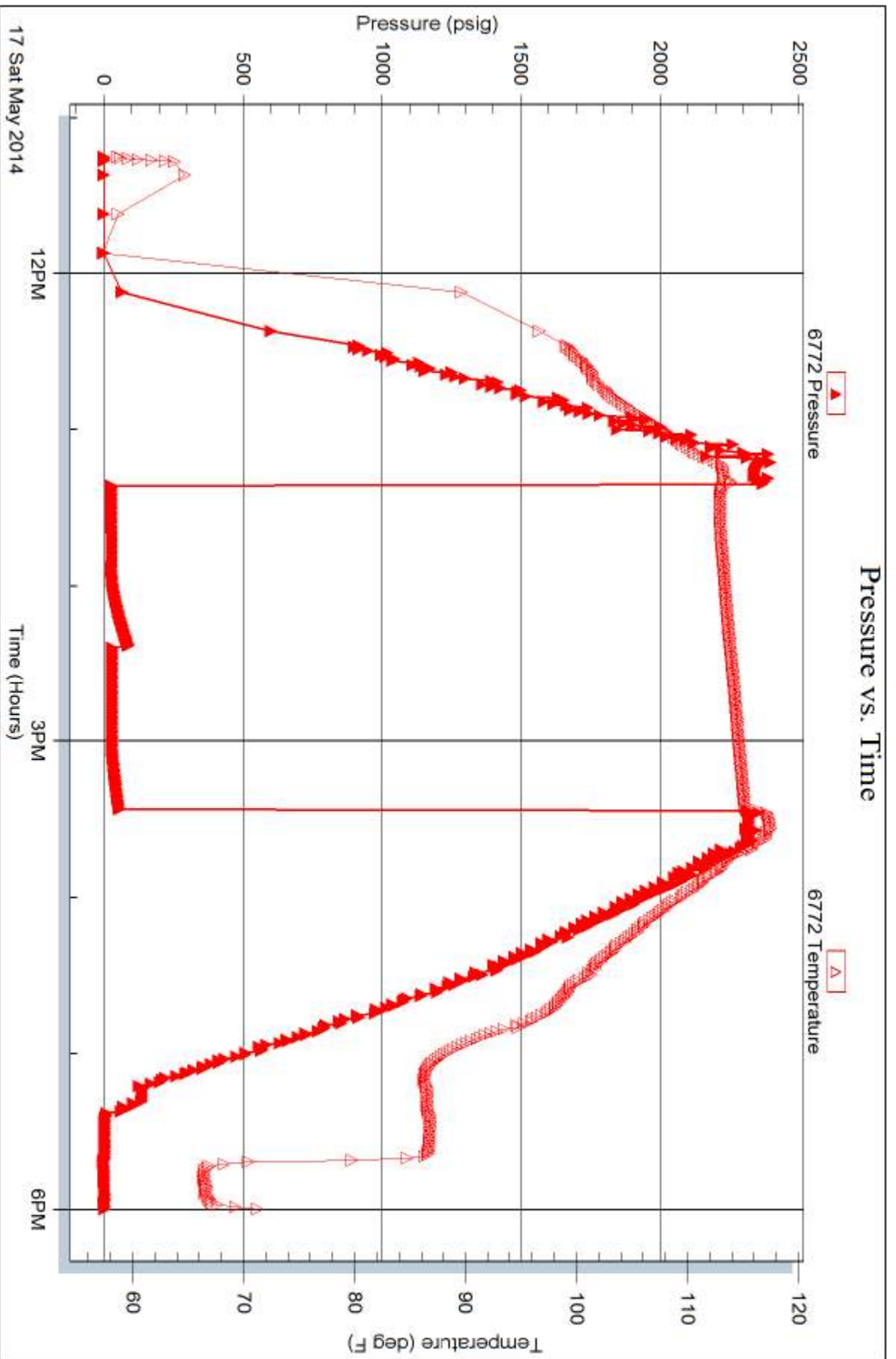


Serial #: 6772

Outside American Warrior, Inc.

OBrate-Finney #1-15

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57071

Printed: 2014.05.20 @ 15:09:34



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57070

Well Name & No. O'Brate - Finney #1-15 Test No. 1 Date 5/14/14
 Company American Warrior, Inc. Elevation 2770 KB 2759 GL
 Address 3118 Cummings Rd Po Box 399 Garden city, KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #5
 Location: Sec. 15 Twp. 25S Rge. 31W Co. Finney State KS

Interval Tested 4530 - 4578 Zone Tested Pawnee
 Anchor Length 48' Drill Pipe Run 4273 Mud Wt. 9.4
 Top Packer Depth 4526 Drill Collars Run 244 Vis 62
 Bottom Packer Depth 4530 Wt. Pipe Run Ø WL 10.0
 Total Depth 4578 Chlorides 3400 ppm System LCM 2
 Blow Description IF: Bob@ 17 min.
ISL: No Return.
FF: Bob@ 24 min.
FSL: Weak surface flow det @ 15 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>w/cm</u>		<u>5</u>	<u>35</u>	<u>60</u>
<u>420</u>	<u>w/cm</u>		<u>85</u>	<u>15</u>	

Rec Total 510' BHT 121 Gravity — API RW .139 @ 76 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic <u>2281</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>3:00</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>3:47</u>
(C) First Final Flow <u>162</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:06</u>
(D) Initial Shut-In <u>1279</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>9:10</u>
(E) Second Initial Flow <u>169</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:51</u>
(F) Second Final Flow <u>256</u>	<input checked="" type="checkbox"/> Mileage <u>114 R/T</u> 176.70	Comments
(G) Final Shut-In <u>1264</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2190</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>1751.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1751.70</u>	

Approved By _____ Our Representative

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. 57071

Well Name & No. O'Brate-Finney #1-15 Test No. 2 Date 5/17/14
 Company American Warrior, Inc. Elevation 2770 KB 2759 GL
 Address 3118 Cummings Rd PO Box 399 Garden city, KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #5
 Location: Sec. 15 Twp. 25S Rge. 31W Co. Finney State KS

Interval Tested 4697-4786 Zone Tested Morrow
 Anchor Length 89 Drill Pipe Run 4457 Mud Wt. 9.5
 Top Packer Depth 4693 Drill Collars Run 244 Vis 46
 Bottom Packer Depth 4697 Wt. Pipe Run Ø WL 8.8
 Total Depth 4786 Chlorides 4600 ppm System LCM 2

Blow Description IF: 2" Blow died back to 1/4" Blow.
IST: No Return
FF: No Blow
FST: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</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 15 BHT 116 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2371</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:45</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:15</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:21</u>
(D) Initial Shut-In <u>90</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>15:25</u>
(E) Second Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>18:00</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>114 R/T X2</u>	Comments <u>Loaded Tools</u>
(G) Final Shut-In <u>57</u>	<input type="checkbox"/> Sampler <u>353.40</u>	<u>5/19/14 03:30</u>
(H) Final Hydrostatic <u>2363</u>	<input type="checkbox"/> Straddle	<u>000 @ 02:00 5/19/14</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>30</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 9.5h</u>	Total <u>2728.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1928.40</u>	

Approved By _____ Our Representative

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.