



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources, Inc**

1616 Voss RD Ste. 600
Houston, TX 67871

ATTN: Wes Hansen

11-17s-34w Scott,KS

Janzen-Baker Unit #1-11

Start Date: 2014.09.02 @ 03:10:00

End Date: 2014.09.02 @ 12:27:45

Job Ticket #: 57430 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2014.09.05 @ 13:40:13

Landmark Resources, Inc

Janzen-Baker Unit #1-11

11-17s-34w Scott,KS

DST # 1

Marratton - Altamont

2014.09.02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources, Inc

Janzen-Baker Unit #1-11

1616 Voss RD Ste. 600
Houston, TX 67871

11-17s-34w Scott,KS

ATTN: Wes Hansen

Job Ticket: 57430

DST#: 1

Test Start: 2014.09.02 @ 03:10:00

GENERAL INFORMATION:

Formation: **Marmaton - Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:15

Time Test Ended: 12:27:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: 4488.00 ft (KB) To 4535.00 ft (KB) (TVD)

Reference Elevations: 3121.00 ft (KB)

Total Depth: 4535.00 ft (KB) (TVD)

3110.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8365

Inside

Press@RunDepth: 95.34 psig @ 4489.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.02

End Date:

2014.09.02

Last Calib.: 2014.09.02

Start Time: 03:10:05

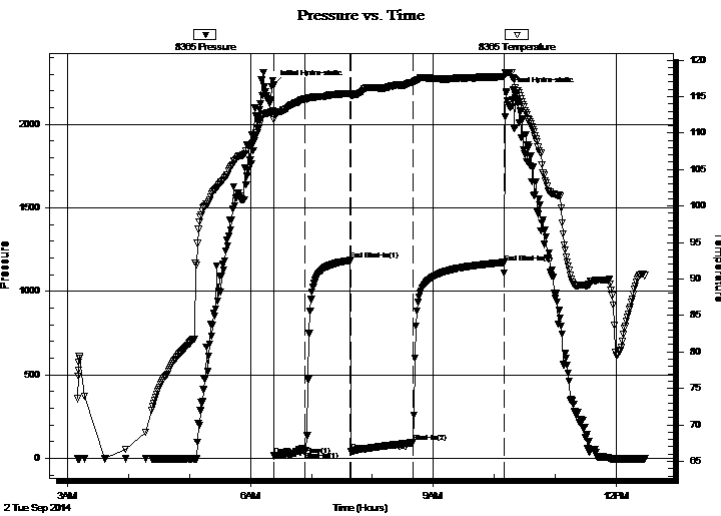
End Time:

12:27:45

Time On Btm: 2014.09.02 @ 06:23:00

Time Off Btm: 2014.09.02 @ 10:11:15

TEST COMMENT: IF: 1/4" blow.
IS: No return.
FF: 1/4" blow
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.35	112.97	Initial Hydro-static
1	16.08	111.82	Open To Flow (1)
31	41.01	114.74	Shut-In(1)
76	1186.21	115.42	End Shut-In(1)
76	43.75	115.13	Open To Flow (2)
137	95.34	116.96	Shut-In(2)
227	1173.13	117.72	End Shut-In(2)
229	2196.50	118.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	sgocm 5g 5o 90m	0.69

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources, Inc

Janzen-Baker Unit #1-11

1616 Voss RD Ste. 600
Houston, TX 67871

11-17s-34w Scott,KS

Job Ticket: 57430

DST#: 1

ATTN: Wes Hansen

Test Start: 2014.09.02 @ 03:10:00

Tool Information

Drill Pipe:	Length: 3926.00 ft	Diameter: 3.80 inches	Volume: 55.07 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 561.00 ft	Diameter: 2.25 inches	Volume: 2.76 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 57.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 98000.00 lb
Depth to Top Packer:	4488.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	74.00 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			4462.00	
Shut In Tool	5.00			4467.00	
Hydraulic tool	5.00			4472.00	
Jars	5.00			4477.00	
Safety Joint	2.00			4479.00	
Packer	5.00			4484.00	27.00 Bottom Of Top Packer
Packer	4.00			4488.00	
Stubb	1.00			4489.00	
Recorder	0.00	8365	Inside	4489.00	
Recorder	0.00	8522	Outside	4489.00	
Perforations	10.00			4499.00	
Change Over Sub	1.00			4500.00	
Drill Pipe	31.00			4531.00	
Change Over Sub	1.00			4532.00	
Bullnose	3.00			4535.00	47.00 Bottom Packers & Anchor

Total Tool Length: 74.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources, Inc

Janzen-Baker Unit #1-11

1616 Voss RD Ste. 600
Houston, TX 67871

11-17s-34w Scott,KS

Job Ticket: 57430

DST#: 1

ATTN: Wes Hansen

Test Start: 2014.09.02 @ 03:10:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	sgocm 5g 5o 90m	0.688

Total Length: 140.00 ft Total Volume: 0.688 bbl

Num Fluid Samples: 0

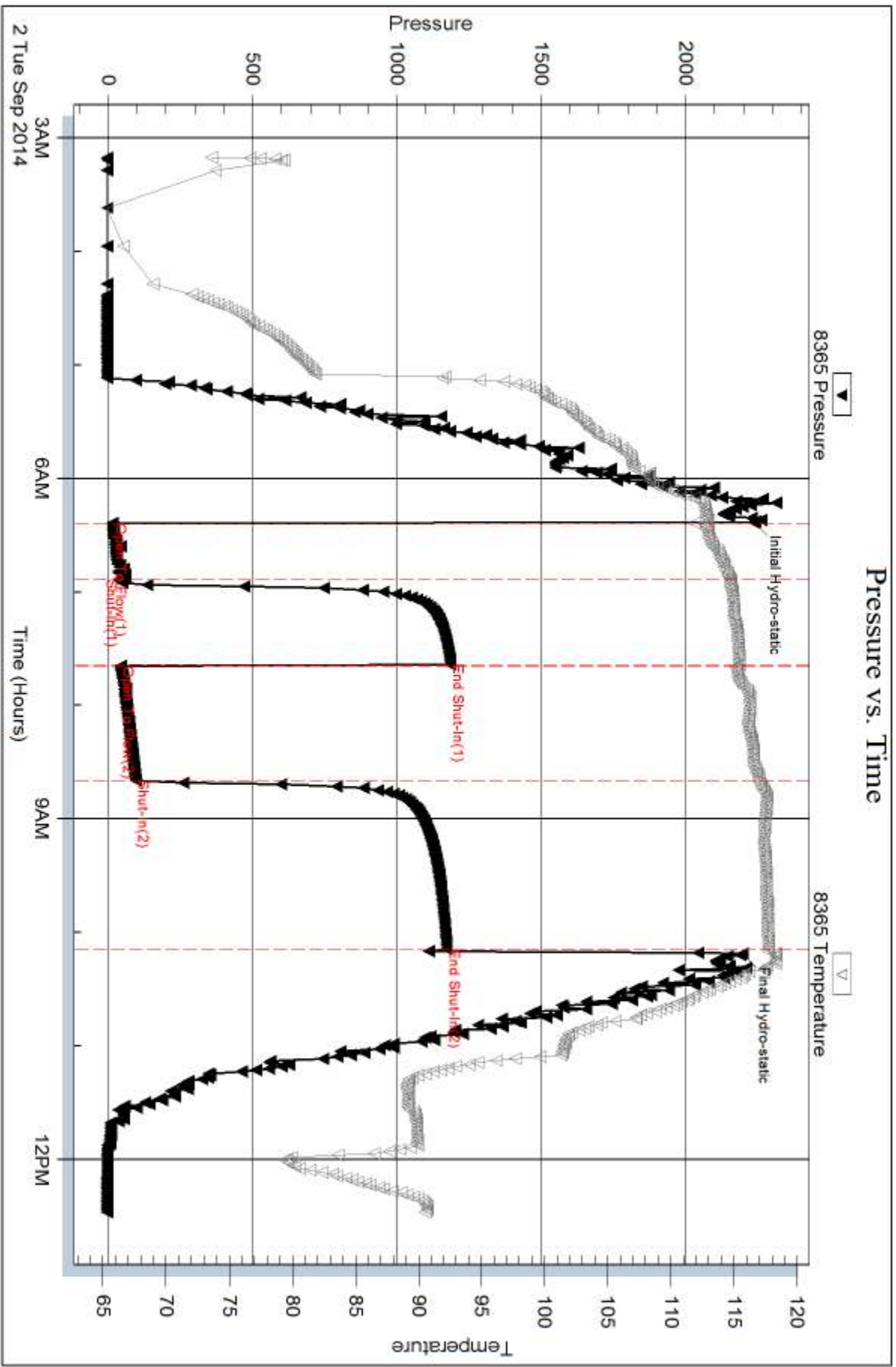
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

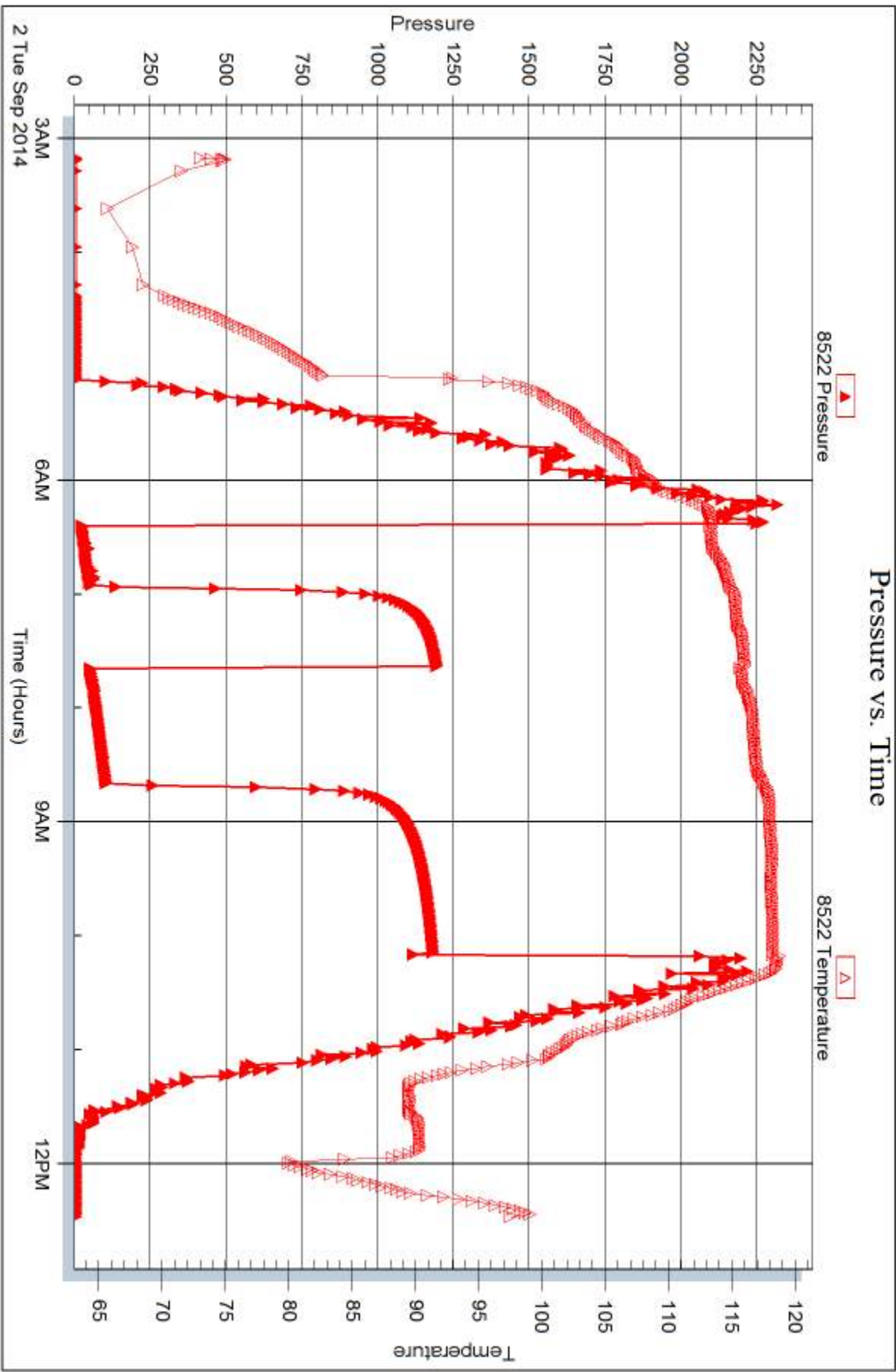


Serial #: 8522

Outside Landmark Resources, Inc

11-17s-34w Scott KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57430

Printed: 2014.09.05 @ 13:40:15



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources, Inc**

1616 Voss RD Ste. 600
Houston, TX 67871

ATTN: Wes Hansen

11-17s-34w Scott,KS

Janzen-Baker Unit #1-11

Start Date: 2014.09.03 @ 18:24:00

End Date: 2014.09.04 @ 03:09:00

Job Ticket #: 57431 DST #: 2

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

Printed: 2014.09.05 @ 13:39:30

Landmark Resources, Inc

Janzen-Baker Unit #1-11

11-17s-34w Scott,KS

DST # 2

Johnson

2014.09.03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources, Inc

Janzen-Baker Unit #1-11

1616 Voss RD Ste. 600
Houston, TX 67871

11-17s-34w Scott,KS

ATTN: Wes Hansen

Job Ticket: 57431

DST#: 2

Test Start: 2014.09.03 @ 18:24:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:14:30

Time Test Ended: 03:09:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4726.00 ft (KB) To 4770.00 ft (KB) (TVD)

Reference Elevations: 3121.00 ft (KB)

Total Depth: 4770.00 ft (KB) (TVD)

3110.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8365 Inside

Press@RunDepth: 46.03 psig @ 4727.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.03

End Date:

2014.09.04

Last Calib.: 2014.09.04

Start Time: 18:24:05

End Time:

03:09:00

Time On Btm: 2014.09.03 @ 21:14:15

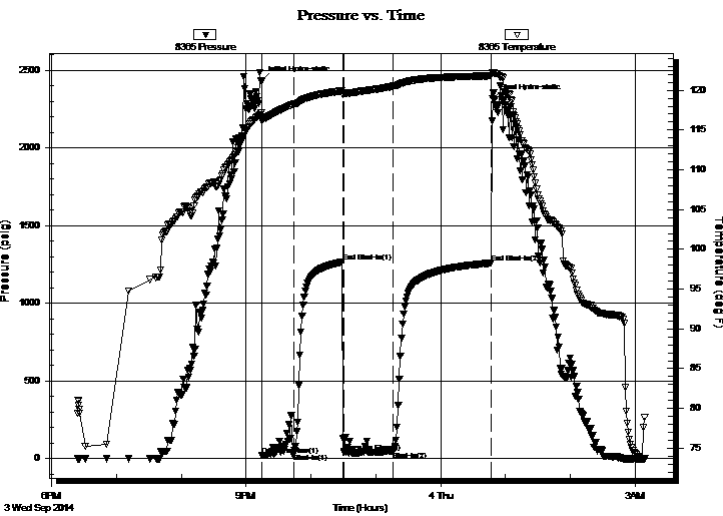
Time Off Btm: 2014.09.04 @ 00:48:15

TEST COMMENT: IF: Surface blow , Died @ 20 min.

IS: No return.

FF: No blow .

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2431.31	117.17	Initial Hydro-static
1	18.87	116.12	Open To Flow (1)
31	35.15	118.25	Shut-In(1)
75	1266.21	119.93	End Shut-In(1)
76	38.89	119.55	Open To Flow (2)
122	46.03	120.51	Shut-In(2)
213	1258.52	121.83	End Shut-In(2)
214	2317.83	122.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100m (oil spots in tool)	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources, Inc

Janzen-Baker Unit #1-11

1616 Voss RD Ste. 600
Houston, TX 67871

11-17s-34w Scott,KS

ATTN: Wes Hansen

Job Ticket: 57431

DST#: 2

Test Start: 2014.09.03 @ 18:24:00

Tool Information

Drill Pipe:	Length: 4145.00 ft	Diameter: 3.80 inches	Volume: 58.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 561.00 ft	Diameter: 2.25 inches	Volume: 2.76 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 60.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 98000.00 lb
Depth to Top Packer:	4726.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.00 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			4700.00	
Shut In Tool	5.00			4705.00	
Hydraulic tool	5.00			4710.00	
Jars	5.00			4715.00	
Safety Joint	2.00			4717.00	
Packer	5.00			4722.00	27.00 Bottom Of Top Packer
Packer	4.00			4726.00	
Stubb	1.00			4727.00	
Recorder	0.00	8365	Inside	4727.00	
Recorder	0.00	8522	Outside	4727.00	
Perforations	7.00			4734.00	
Change Over Sub	1.00			4735.00	
Drill Pipe	31.00			4766.00	
Change Over Sub	1.00			4767.00	
Bullnose	3.00			4770.00	44.00 Bottom Packers & Anchor

Total Tool Length: 71.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources, Inc

Janzen-Baker Unit #1-11

1616 Voss RD Ste. 600
Houston, TX 67871

11-17s-34w Scott,KS

Job Ticket: 57431

DST#: 2

ATTN: Wes Hansen

Test Start: 2014.09.03 @ 18:24:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100m (oil spots in tool)	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

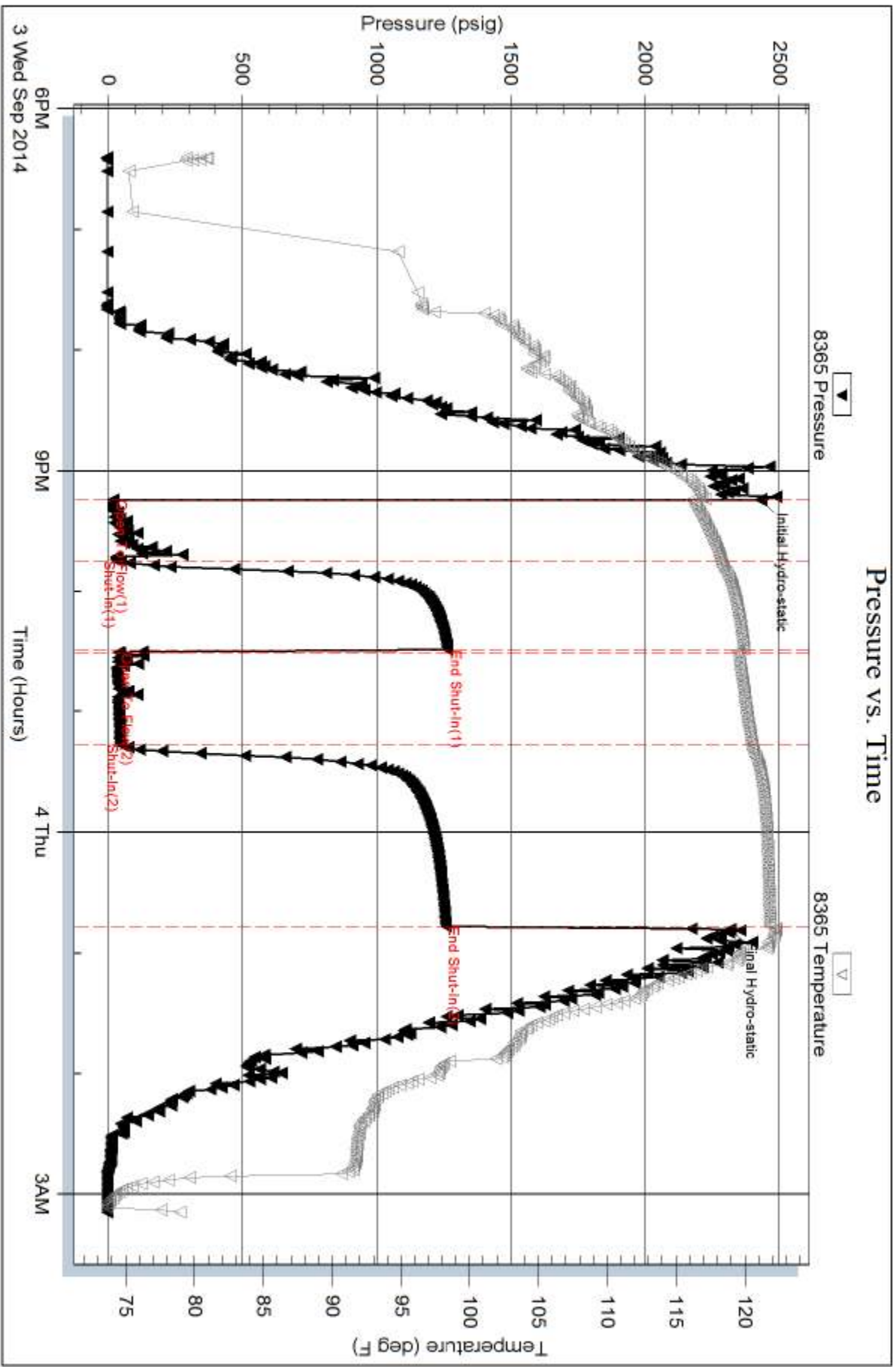
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

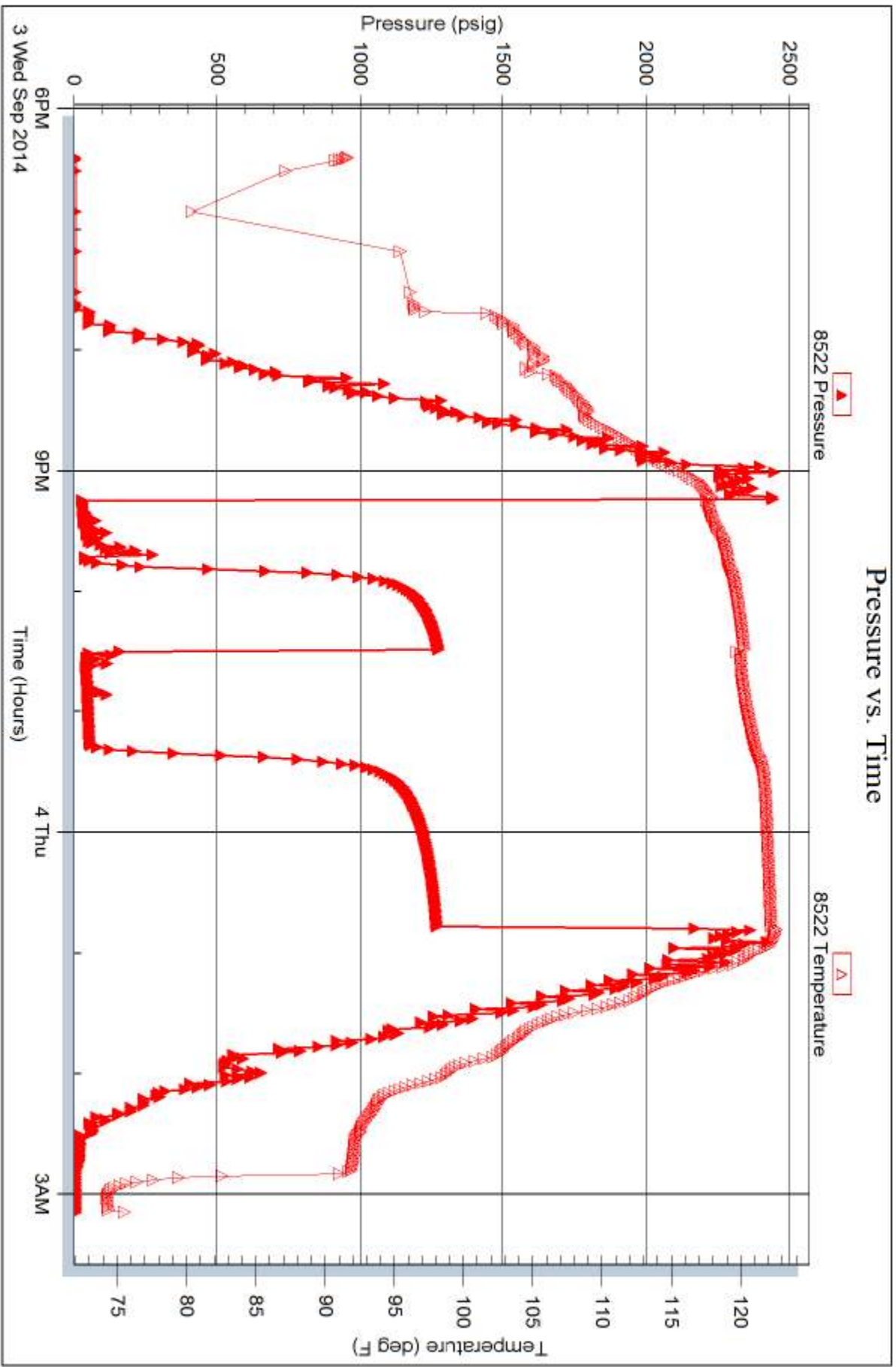


Serial #: 8522

Outside Landmark Resources, Inc

11-17s-34w Scott KS

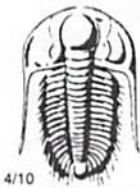
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 57431

Printed: 2014.09.05 @ 13:39:31



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57430

Well Name & No. Janzen-Baker Unit # 1-11 Test No. 1 Date 9/02/14
 Company Landmark Resources, Inc Elevation 3121 KB 310 GL
 Address 1616 Voss Rd Ste. 600 Houston, Tx 77057
 Co. Rep / Geo. Wes Hansen Rig Martin 4
 Location: Sec. 11 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4488 4535 Zone Tested Marmaton - Altamont
 Anchor Length 47 Drill Pipe Run 4926 Mud Wt. 9.0
 Top Packer Depth 4483 Drill Collars Run 561 Vis 52
 Bottom Packer Depth 4488 Wt. Pipe Run 0 WL 6.6
 Total Depth 4535 Chlorides 3600 ppm System LCM 8#
 Blow Description IF! 1/4" blow
IGI! No return.
FF! 1/4" blow
FSL! No return.

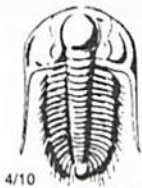
Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>Spoon</u>	<u>5</u>	<u>5</u>	<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 140 BHT 118 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2230</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0230</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0310</u>
(C) First Final Flow <u>41</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0647</u>
(D) Initial Shut-In <u>1180</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>1002</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1227</u>
(F) Second Final Flow <u>95</u>	<input checked="" type="checkbox"/> Mileage <u>40RT</u> <u>62</u>	Comments
(G) Final Shut-In <u>1173</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2197</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1787</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>1787</u>	

Approved By _____ Our Representative [Signature]

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. 57431

Well Name & No. Janzen - Baker Unit #1-11 Test No. 2 Date 9/04/14
 Company Landmark Resources, Inc Elevation 3121 KB 3110 GL
 Address 1616 Voss Rd Ste 600 Houston, Tx 77057
 Co. Rep / Geo. Wes Hansen Rig Mudwin 4
 Location: Sec. 11 Twp. 17s Rge. 34w Co. Scott State KS

Interval Tested 4726 - 4770 Zone Tested Johnson
 Anchor Length 44 Drill Pipe Run 4145 Mud Wt. 8.9
 Top Packer Depth 4721 Drill Collars Run 561 Vis 55
 Bottom Packer Depth 4726 Wt. Pipe Run 0 WL 7.2
 Total Depth 4770 Chlorides 5,000 ppm System LCM 8#
 Blow Description IF: Surface blow died @ 20 min.
ISI: No return
FF: No blow.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>MUD</u>				
	<u>(OIL SPOTS IN TOOL)</u>				

Rec Total 30 BHT 121 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2431</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1800</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1824</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2115</u>
(D) Initial Shut-In <u>1266</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>0045 9/04</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0309</u>
(F) Second Final Flow <u>46</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT x 2 62+62</u>	Comments <u>P/O Tool @ 1600 9/04</u>
(G) Final Shut-In <u>1259</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2318</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>183.33</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby <u>1d 5.5h</u>	Total <u>2032.33</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>1849</u>	

Approved By _____ Our Representative [Signature]

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.