



DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

Blackwell A #1

2-22s-15w Pawnee,KS

Start Date: 2014.05.18 @ 23:50:07

End Date: 2014.05.19 @ 07:54:07

Job Ticket #: 52019 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.27 @ 10:55:26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Kurt Talbolt

2-22s-15w Pawnee, KS
Blackwell A #1
Job Ticket: 52019 **DST#: 1**
Test Start: 2014.05.18 @ 23:50:07

GENERAL INFORMATION:

Formation: **Lansing "H"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:22:22
Time Test Ended: 07:54:07
Interval: **3640.00 ft (KB) To 3680.00 ft (KB) (TVD)**
Total Depth: 3680.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1977.00 ft (KB)
1971.00 ft (CF)
KB to GR/CF: 6.00 ft

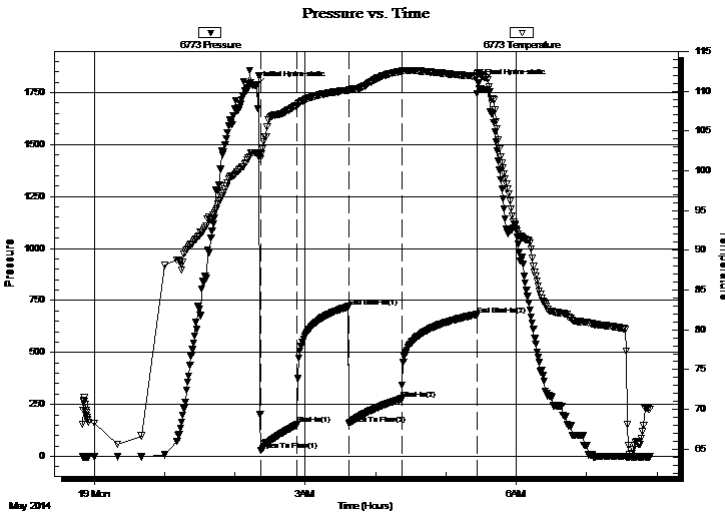
Serial #: 6773

Outside

Press@RunDepth: 277.14 psig @ 3641.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.18 End Date: 2014.05.19 Last Calib.: 2014.05.19
Start Time: 23:50:12 End Time: 07:54:06 Time On Btm: 2014.05.19 @ 02:18:37
Time Off Btm: 2014.05.19 @ 05:27:37

TEST COMMENT: IF: Strong blow . B.O.B. in 7 mins.
IS: Weak blow . Surf., to 1/2".
FF: Strong blow . B.O.B. in 9 mins.
FS: Weak blow . Surf., to 1/2".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1785.00	102.25	Initial Hydro-static
4	30.63	102.10	Open To Flow (1)
34	152.46	108.22	Shut-In(1)
79	720.36	110.09	End Shut-In(1)
79	157.17	110.06	Open To Flow (2)
124	277.14	112.50	Shut-In(2)
188	681.25	111.89	End Shut-In(2)
189	1795.14	112.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCW 5%o 10%m 85%w (Slr Trc Oil)	1.74
310.00	OCMW 5%o 10%m 85%w	4.35
62.00	MWOCG 8%o 10%g 40%m 42%w	0.87
62.00	MWOCG 5%w 20%m 30%w 45%o	0.87
0.00	310' G.I.P. 100%g	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

2-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell A #1

Job Ticket: 52019

DST#: 1

ATTN: Kurt Talbolt

Test Start: 2014.05.18 @ 23:50:07

Tool Information

Drill Pipe:	Length: 3648.00 ft	Diameter: 3.80 inches	Volume: 51.17 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 51.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3640.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	60.00 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			3621.00	
Shut In Tool	5.00			3626.00	
Hydraulic tool	5.00			3631.00	
Packer	4.00			3635.00	20.00 Bottom Of Top Packer
Packer	5.00			3640.00	
Stubb	1.00			3641.00	
Recorder	0.00	6719	Outside	3641.00	
Recorder	0.00	6773	Outside	3641.00	
Perforations	2.00			3643.00	
Change Over Sub	1.00			3644.00	
Drill Pipe	32.00			3676.00	
Change Over Sub	1.00			3677.00	
Bullnose	3.00			3680.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

2-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell A #1

Job Ticket: 52019

DST#: 1

ATTN: Kurt Talbolt

Test Start: 2014.05.18 @ 23:50:07

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:

75000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	MCW 5%o 10%m 85%w (Slit Trc Oil)	1.739
310.00	OCMW 5%o 10%m 85%w	4.348
62.00	MWOCG 8%o 10%g 40%m 42%w	0.870
62.00	MWOCG 5%w 20%m 30%w 45%o	0.870
0.00	310' G.I.P. 100%g	0.000

Total Length: 558.00 ft Total Volume: 7.827 bbl

Num Fluid Samples: 0

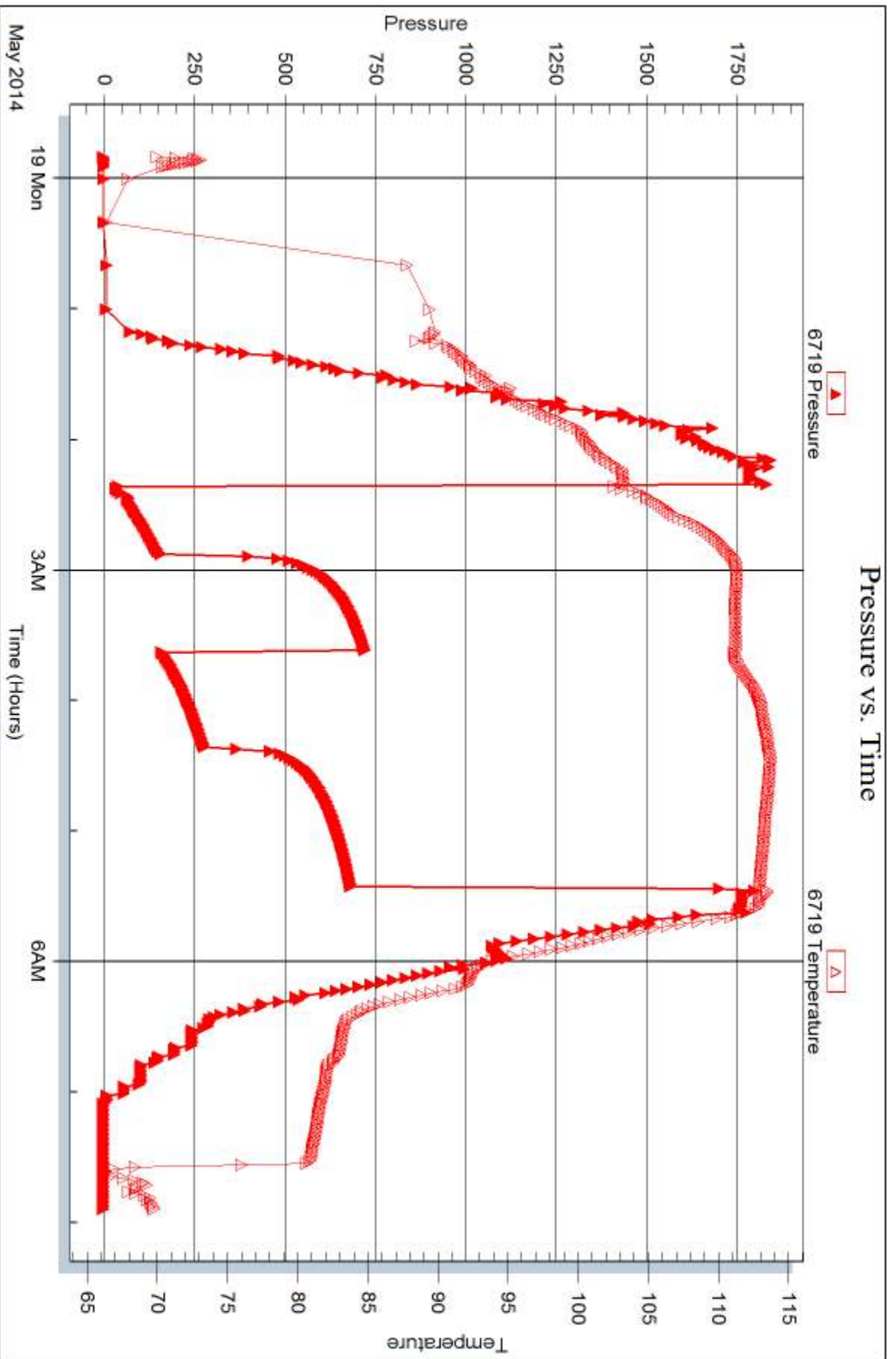
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11@ 66 degrees. = 75,000





DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

Blackwell A #1

2-22s-15w Pawnee,KS

Start Date: 2014.05.19 @ 23:36:11

End Date: 2014.05.20 @ 05:31:41

Job Ticket #: 52020 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.27 @ 10:55:04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Kurt Talbolt

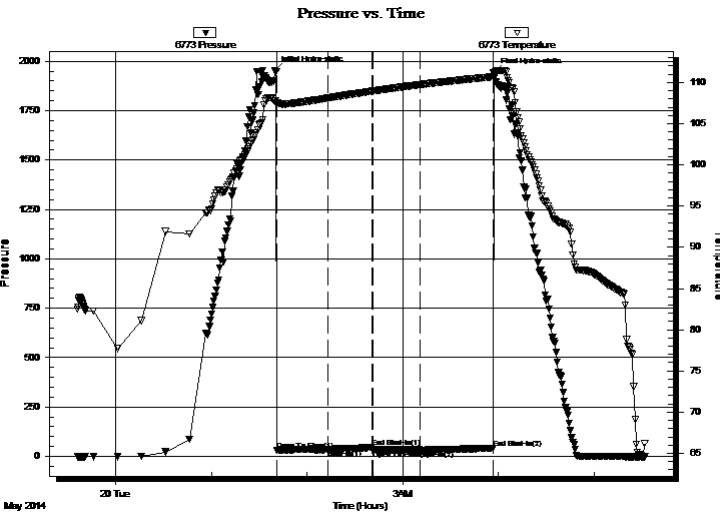
2-22s-15w Pawnee, KS
Blackwell A #1
Job Ticket: 52020 **DST#: 2**
Test Start: 2014.05.19 @ 23:36:11

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:41:11
Time Test Ended: 05:31:41
Interval: **3826.00 ft (KB) To 3875.00 ft (KB) (TVD)**
Total Depth: 3875.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 53
Reference Elevations: 1977.00 ft (KB)
1971.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6773 Outside
Press@RunDepth: 30.77 psig @ 3827.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.19 End Date: 2014.05.20 Last Calib.: 2014.05.20
Start Time: 23:36:16 End Time: 05:31:40 Time On Btm: 2014.05.20 @ 01:39:56
Time Off Btm: 2014.05.20 @ 03:57:11

TEST COMMENT: IF: Weak blow . Surf., - 1".
IS: No blow .
FF: No blow .
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1953.08	107.81	Initial Hydro-static
2	31.48	107.29	Open To Flow (1)
33	34.94	108.10	Shut-In(1)
61	44.67	108.94	End Shut-In(1)
62	30.45	108.95	Open To Flow (2)
91	30.77	109.73	Shut-In(2)
137	41.14	110.69	End Shut-In(2)
138	1942.11	111.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	DRLG Mud 100%m	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

2-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell A #1

Job Ticket: 52020

DST#: 2

ATTN: Kurt Talbolt

Test Start: 2014.05.19 @ 23:36:11

Tool Information

Drill Pipe:	Length: 3838.00 ft	Diameter: 3.80 inches	Volume: 53.84 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 53.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3826.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 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			3807.00	
Shut In Tool	5.00			3812.00	
Hydraulic tool	5.00			3817.00	
Packer	4.00			3821.00	20.00 Bottom Of Top Packer
Packer	5.00			3826.00	
Stubb	1.00			3827.00	
Recorder	0.00	6719	Outside	3827.00	
Recorder	0.00	6773	Outside	3827.00	
Perforations	3.00			3830.00	
Change Over Sub	1.00			3831.00	
Drill Pipe	32.00			3863.00	
Change Over Sub	1.00			3864.00	
Perforations	8.00			3872.00	
Bullnose	3.00			3875.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Kurt Talbolt

2-22s-15w Pawnee,KS
Blackwell A #1
Job Ticket: 52020 **DST#: 2**
Test Start: 2014.05.19 @ 23:36:11

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:	6800 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.56 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6800.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

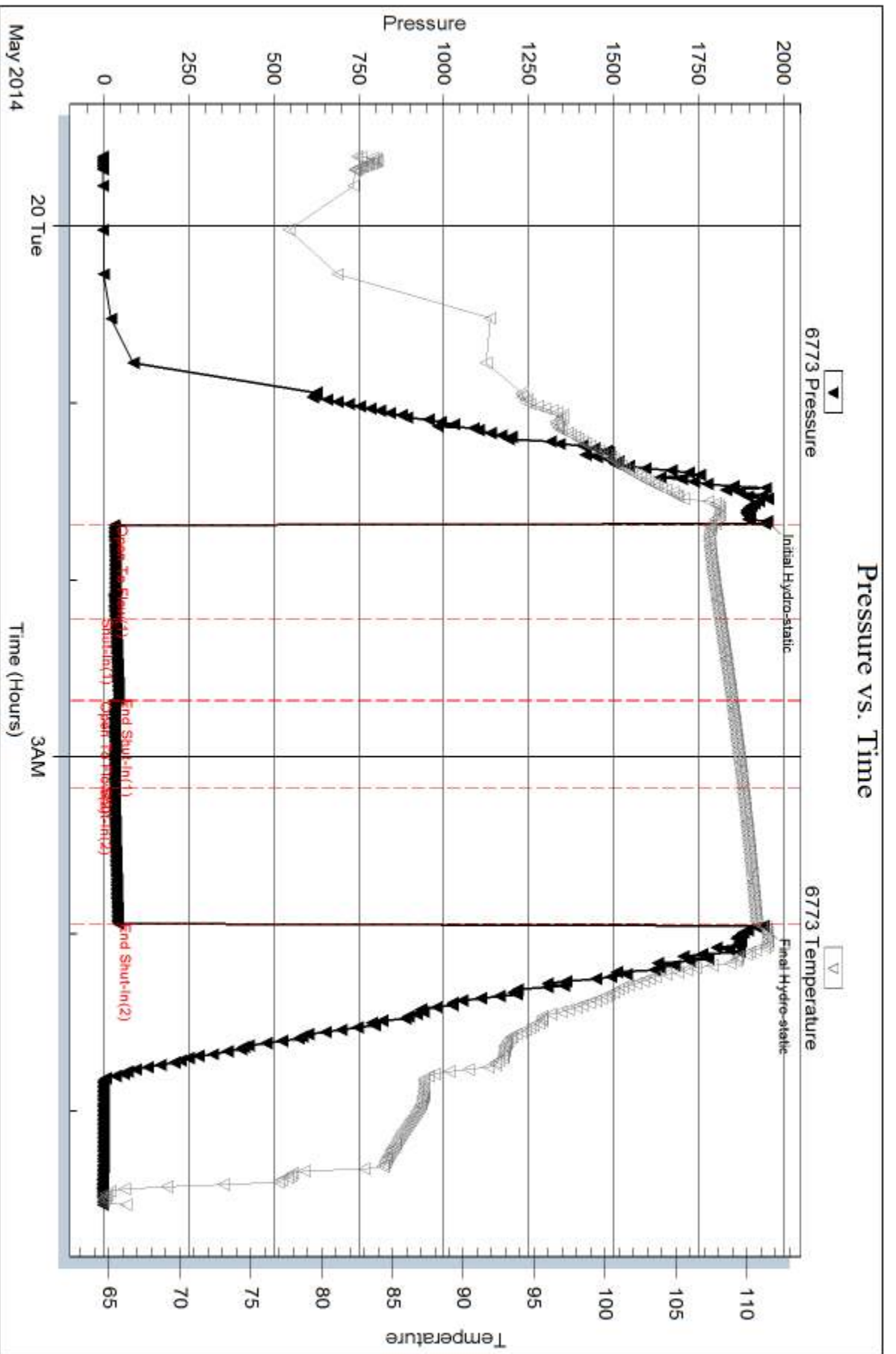
Length ft	Description	Volume bbl
10.00	DRLG Mud 100%m	0.140

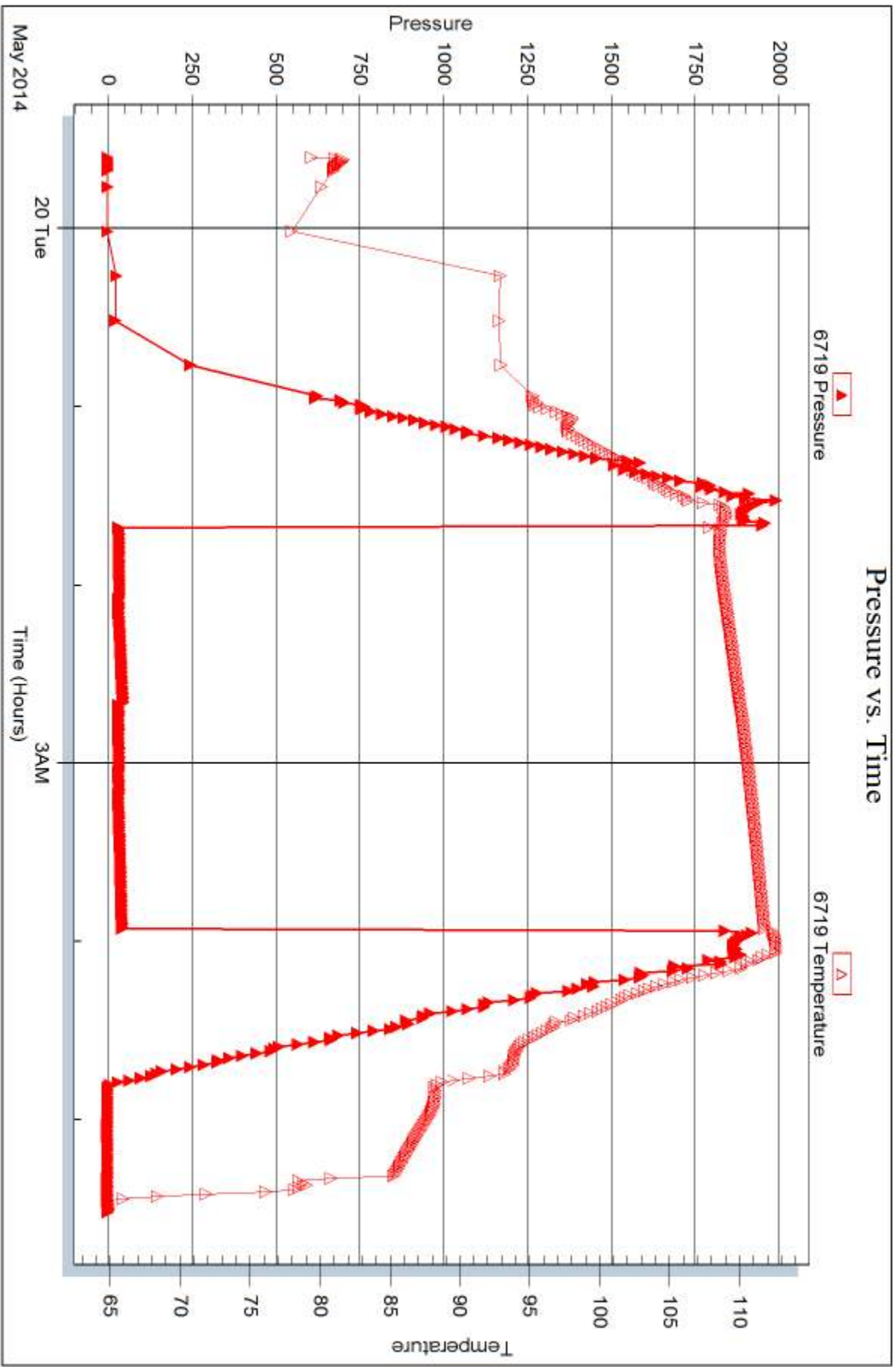
Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments: Slight trace of oil in mud and tool.







DRILL STEM TEST REPORT

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PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

Blackwell A #1

2-22s-15w Pawnee,KS

Start Date: 2014.05.20 @ 16:51:31

End Date: 2014.05.20 @ 20:19:01

Job Ticket #: 52021 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.27 @ 10:54:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc.
 PO Box 252
 Great Bend, KS 67530
 ATTN: Kurt Talbolt

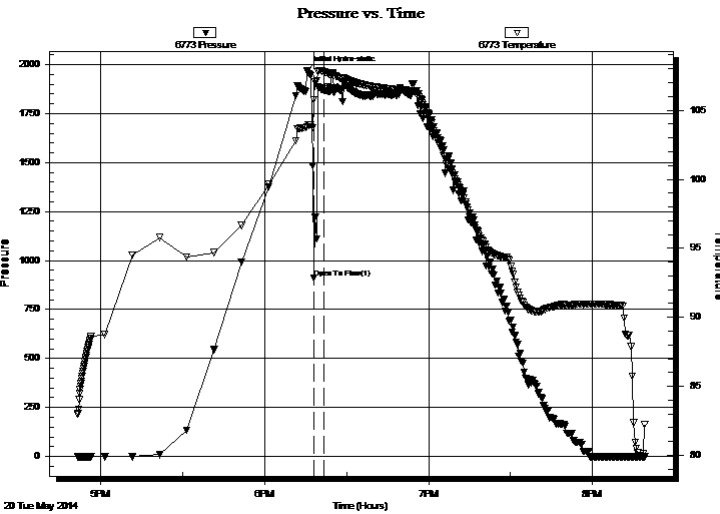
2-22s-15w Pawnee, KS
Blackwell A #1
 Job Ticket: 52021 **DST#: 3**
 Test Start: 2014.05.20 @ 16:51:31

GENERAL INFORMATION:

Formation: **Simpson sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:18:01
 Time Test Ended: 20:19:01
 Interval: **3846.00 ft (KB) To 3925.00 ft (KB) (TVD)**
 Total Depth: 3925.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 53
 Reference Elevations: 1977.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6773 Outside
 Press@RunDepth: psig @ 3847.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.20 End Date: 2014.05.20 Last Calib.: 2014.05.20
 Start Time: 16:51:36 End Time: 20:19:01 Time On Btm: 2014.05.20 @ 18:15:31
 Time Off Btm:

TEST COMMENT: IF: Opened tool and packer failure.
 IS:
 FF:
 FS:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.32	103.79	Initial Hydro-static
3	910.22	105.77	Open To Flow (1)
6	1867.27	107.80	Shut-In(1)

Recovery

Length (ft)	Description	Volume (bbl)
372.00	DRLG Mud 100%m	5.22

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

2-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell A #1

Job Ticket: 52021

DST#: 3

ATTN: Kurt Talbolt

Test Start: 2014.05.20 @ 16:51:31

Tool Information

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 53.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3846.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Packer failure.

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3827.00	
Shut In Tool	5.00			3832.00	
Hydraulic tool	5.00			3837.00	
Packer	4.00			3841.00	20.00 Bottom Of Top Packer
Packer	5.00			3846.00	
Stubb	1.00			3847.00	
Recorder	0.00	6719	Outside	3847.00	
Recorder	0.00	6773	Outside	3847.00	
Perforations	2.00			3849.00	
Change Over Sub	1.00			3850.00	
Drill Pipe	64.00			3914.00	
Change Over Sub	1.00			3915.00	
Perforations	7.00			3922.00	
Bullnose	3.00			3925.00	79.00 Bottom Packers & Anchor

Total Tool Length: 99.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

2-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell A #1

Job Ticket: 52021

DST#: 3

ATTN: Kurt Talbolt

Test Start: 2014.05.20 @ 16:51:31

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:

7800 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.55 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	DRLG Mud 100%m	5.218

Total Length: 372.00 ft Total Volume: 5.218 bbl

Num Fluid Samples: 0

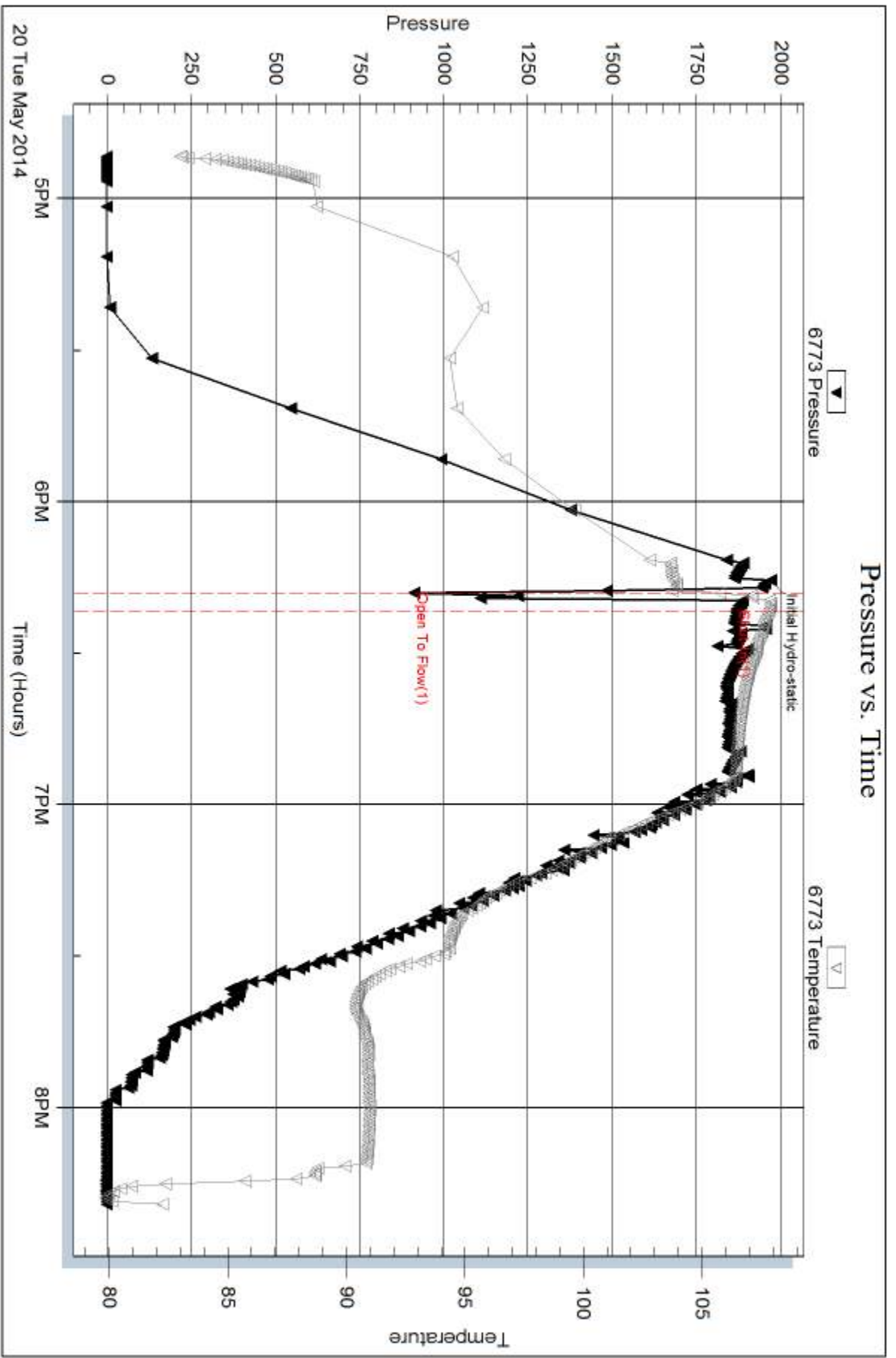
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Packer failure on open

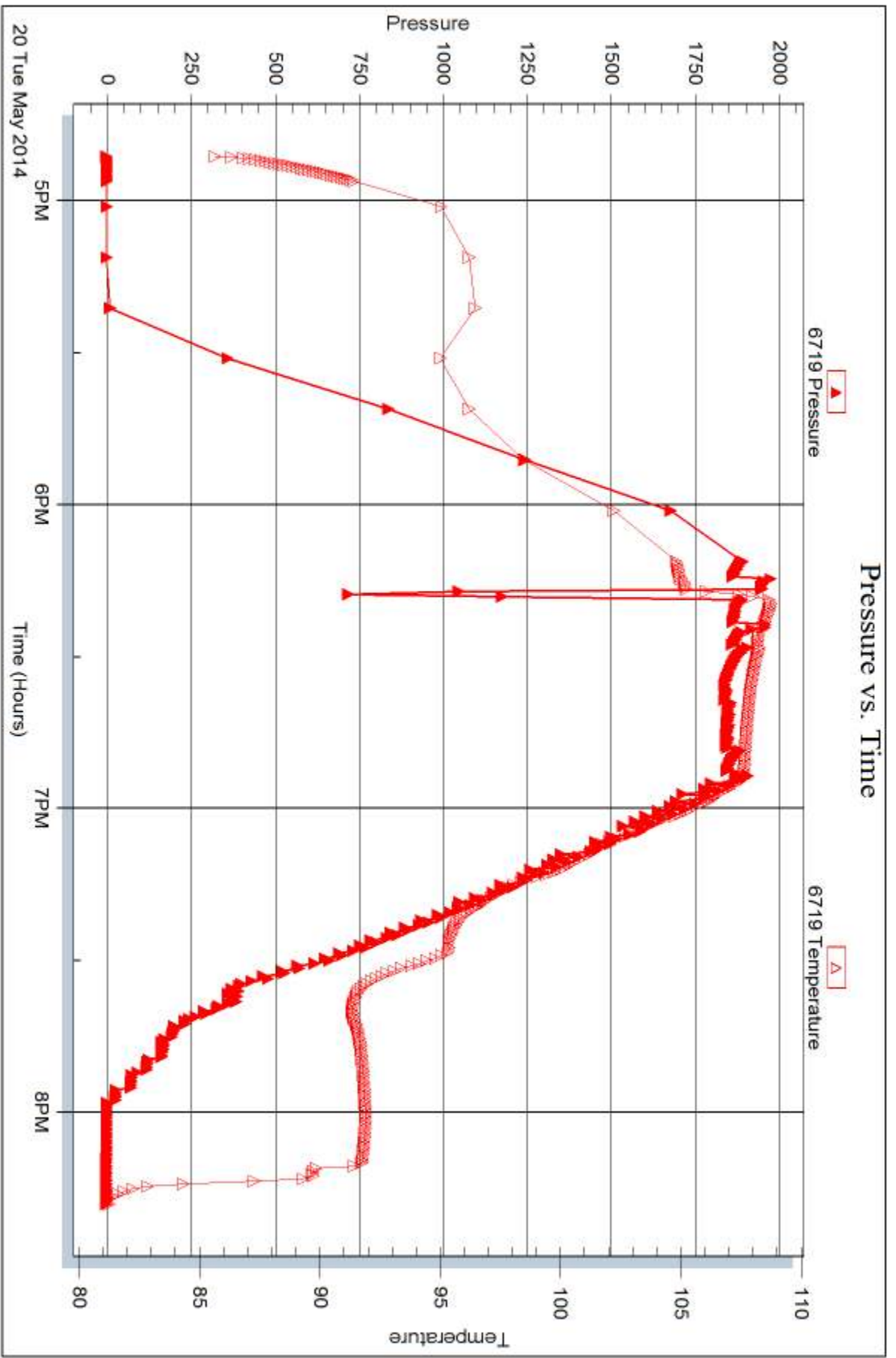


Serial #: 6719

Outside Charter Energy, Inc.

Blackwell A #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 52021

Printed: 2014.05.27 @ 10:54:43



DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

Blackwell A #1

2-22s-15w Pawnee,KS

Start Date: 2014.05.20 @ 21:25:32

End Date: 2014.05.21 @ 00:59:42

Job Ticket #: 52022 DST #: 4

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

Printed: 2014.05.27 @ 10:54:19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

2-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell A #1

Job Ticket: 52022

DST#: 4

ATTN: Kurt Talbolt

Test Start: 2014.05.20 @ 21:25:32

Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.80 inches	Volume: 53.81 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3827.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Bottom Packer is a Shale Packer...

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3808.00	
Shut In Tool	5.00			3813.00	
Hydraulic tool	5.00			3818.00	
Packer	4.00			3822.00	20.00 Bottom Of Top Packer
Packer	5.00			3827.00	
Stubb	1.00			3828.00	
Recorder	0.00	6719	Outside	3828.00	
Recorder	0.00	6773	Outside	3828.00	
Perforations	2.00			3830.00	
Change Over Sub	1.00			3831.00	
Drill Pipe	64.00			3895.00	
Change Over Sub	1.00			3896.00	
Perforations	26.00			3922.00	
Bullnose	3.00			3925.00	98.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

2-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell A #1

Job Ticket: 52022

DST#: 4

ATTN: Kurt Talbolt

Test Start: 2014.05.20 @ 21:25:32

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:

7800 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.56 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
206.00	DLNG Mud 100%m	2.890

Total Length: 206.00 ft Total Volume: 2.890 bbl

Num Fluid Samples: 0

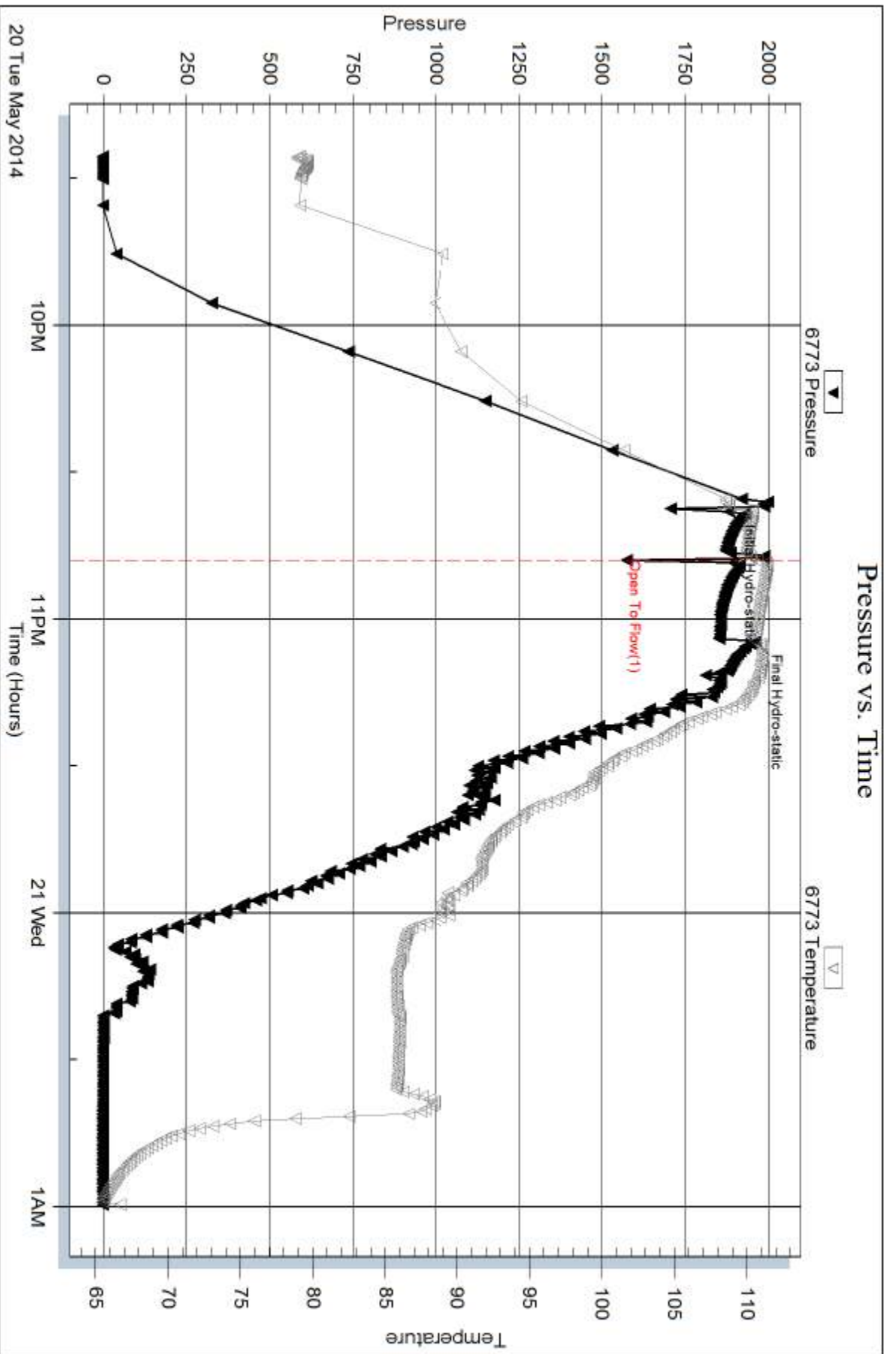
Num Gas Bombs: 0

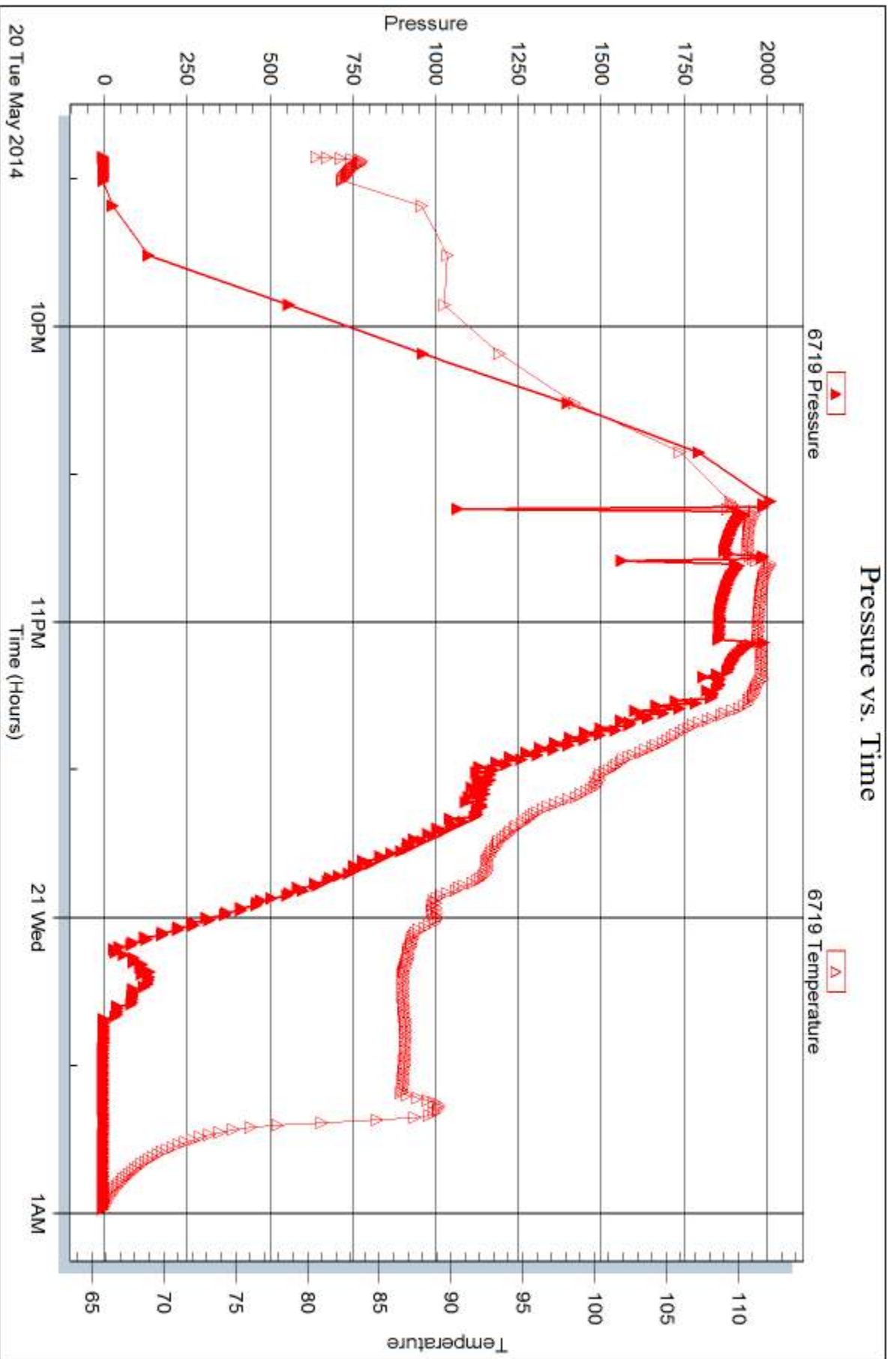
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

Blackwell A #1

2-22s-15w Pawnee,KS

Start Date: 2014.05.21 @ 05:48:38

End Date: 2014.05.21 @ 11:48:38

Job Ticket #: 52023 DST #: 5

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

Printed: 2014.05.27 @ 10:53:54



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DRILL STEM TEST REPORT

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Kurt Talbolt

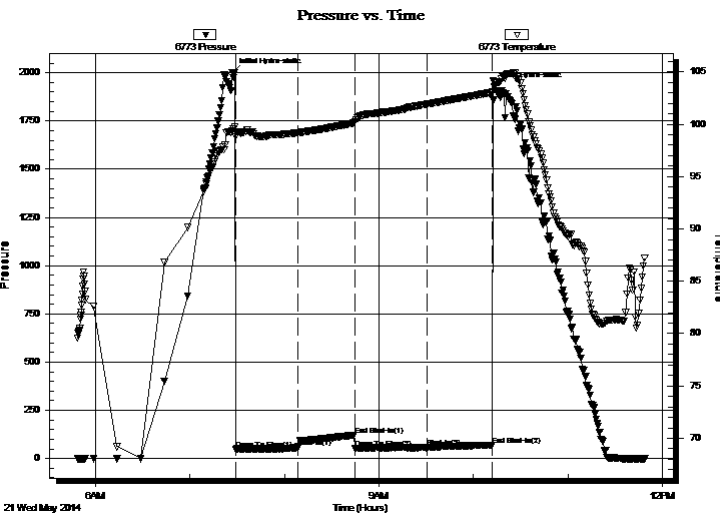
2-22s-15w Pawnee, KS
Blackwell A #1
Job Ticket: 52023 **DST#: 5**
Test Start: 2014.05.21 @ 05:48:38

GENERAL INFORMATION:

Formation: **Viola-Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:29:08
Time Test Ended: 11:48:38
Interval: **3843.00 ft (KB) To 3925.00 ft (KB) (TVD)**
Total Depth: 3680.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 53
Reference Elevations: 1977.00 ft (KB)
1971.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6773 Outside
Press@RunDepth: 56.53 psig @ 3844.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.21 End Date: 2014.05.21 Last Calib.: 2014.05.21
Start Time: 05:48:43 End Time: 11:48:37 Time On Btm: 2014.05.21 @ 07:26:53
Time Off Btm: 2014.05.21 @ 10:13:23

TEST COMMENT: IF: Weak blow . Surf., to 2".
IS: No blow .
FF: No blow .
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.07	99.37	Initial Hydro-static
3	48.64	98.85	Open To Flow (1)
42	57.05	99.19	Shut-In(1)
78	120.21	100.14	End Shut-In(1)
78	52.57	100.24	Open To Flow (2)
124	56.53	101.92	Shut-In(2)
165	69.24	103.06	End Shut-In(2)
167	1929.84	104.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	DRLG Mud 100%m	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

Charter Energy, Inc.

2-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell A #1

Job Ticket: 52023

DST#: 5

ATTN: Kurt Talbolt

Test Start: 2014.05.21 @ 05:48:38

Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.80 inches	Volume: 53.81 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3843.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Bottom packer is a Shale Packer again...

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3824.00	
Shut In Tool	5.00			3829.00	
Hydraulic tool	5.00			3834.00	
Packer	4.00			3838.00	20.00 Bottom Of Top Packer
Packer	5.00			3843.00	
Stubb	1.00			3844.00	
Recorder	0.00	6719	Outside	3844.00	
Recorder	0.00	6773	Outside	3844.00	
Perforations	3.00			3847.00	
Change Over Sub	1.00			3848.00	
Drill Pipe	64.00			3912.00	
Change Over Sub	1.00			3913.00	
Perforations	9.00			3922.00	
Bullnose	3.00			3925.00	82.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

2-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell A #1

Job Ticket: 52023

DST#: 5

ATTN: Kurt Talbolt

Test Start: 2014.05.21 @ 05:48:38

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:

7800 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	DRLG Mud 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

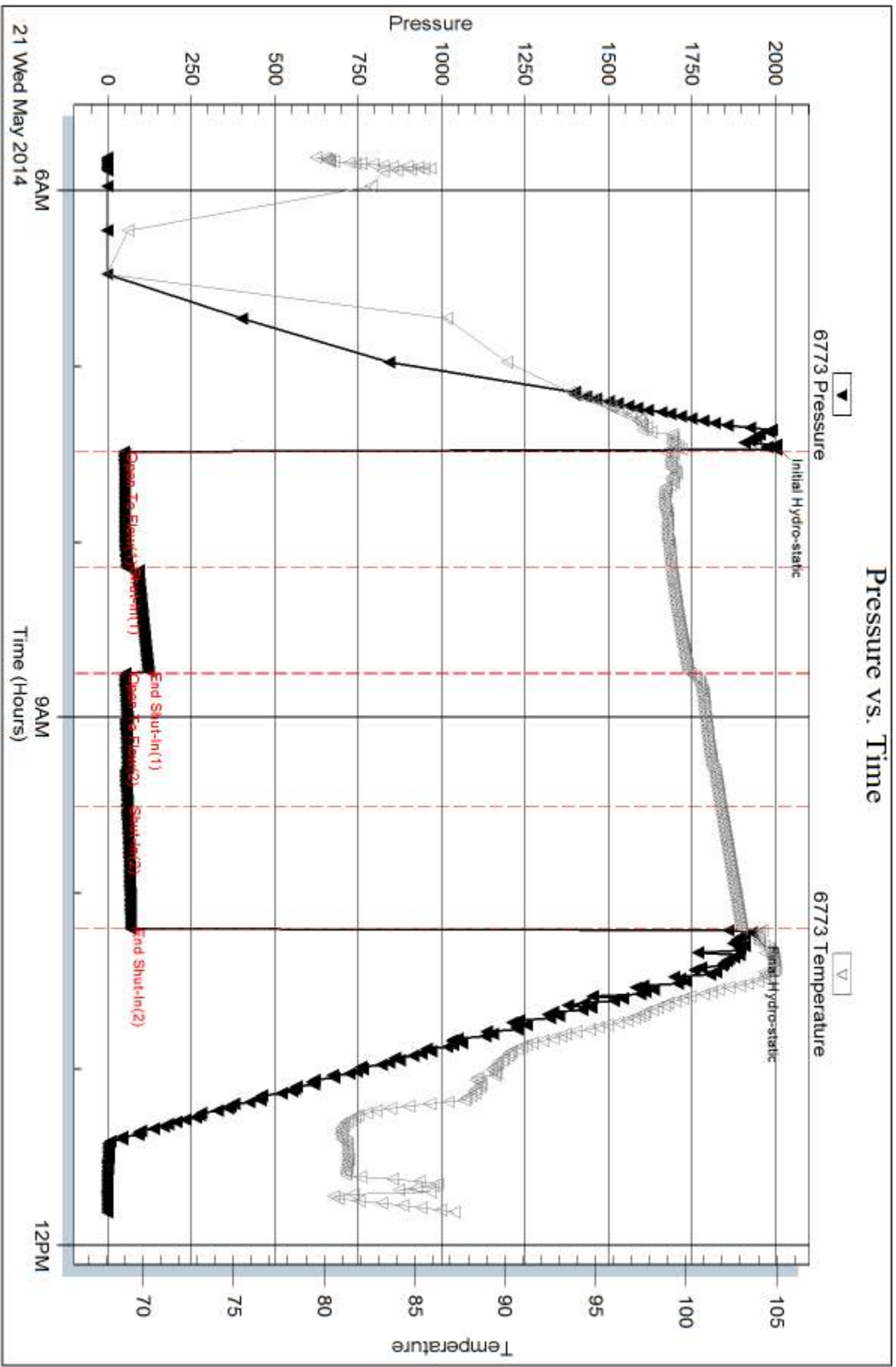
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

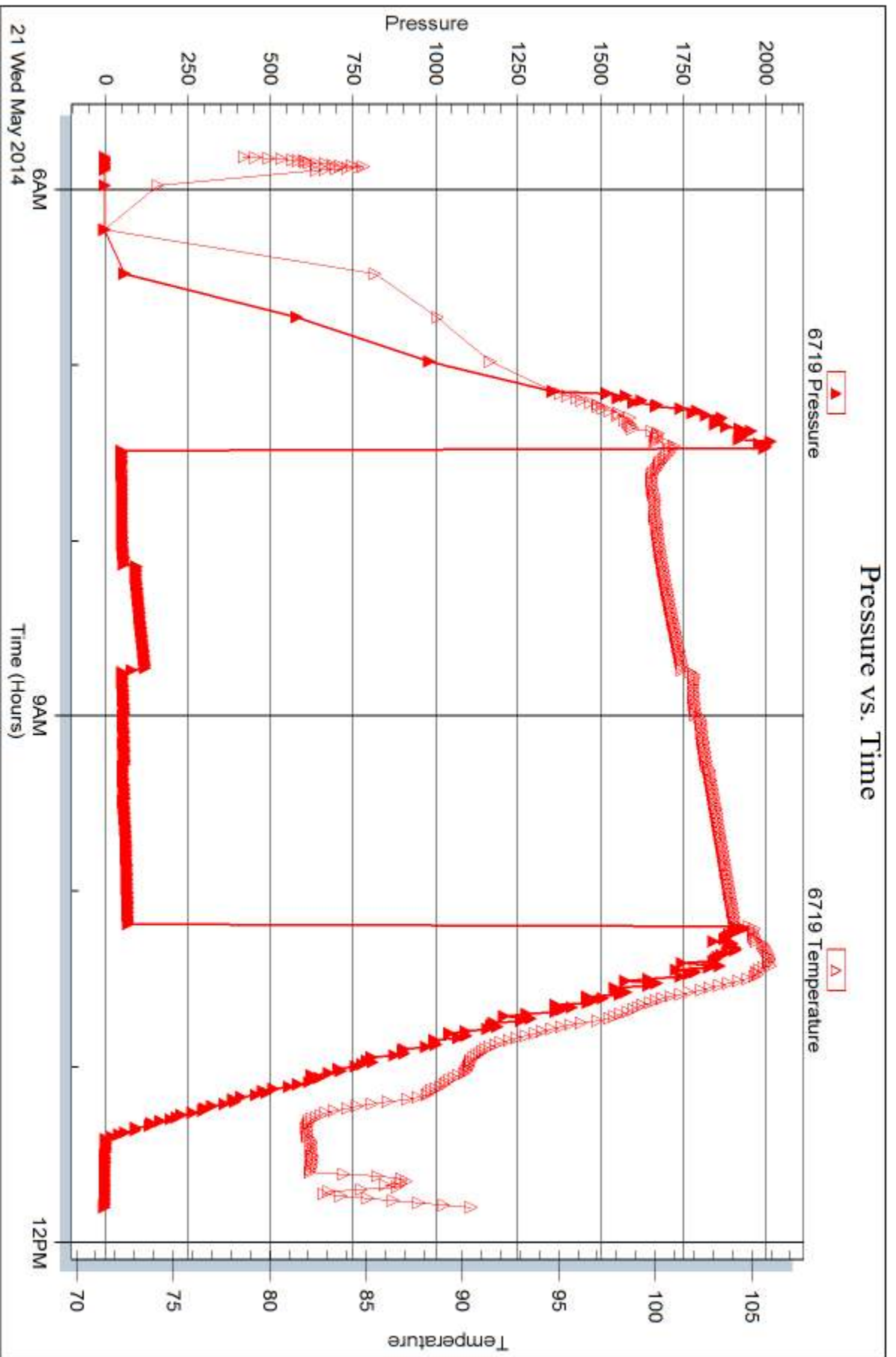


Serial #: 6719

Outside Charter Energy, Inc.

Blackwell A #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 52023

Printed: 2014.05.27 @ 10:53:55



DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

Blackwell A #1

2-22s-15w Pawnee,KS

Start Date: 2014.05.22 @ 00:37:00

End Date: 2014.05.22 @ 10:47:30

Job Ticket #: 52024 DST #: 6

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

Printed: 2014.05.27 @ 10:53:23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

2-22s-15w Pawnee, KS

PO Box 252
Great Bend, KS 67530

Blackwell A #1

Job Ticket: 52024

DST#: 6

ATTN: Kurt Talbolt

Test Start: 2014.05.22 @ 00:37:00

Tool Information

Drill Pipe:	Length: 3837.00 ft	Diameter: 3.80 inches	Volume: 53.82 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 53.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3842.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	103.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Bottom packer is still Shale Packer...

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3823.00	
Shut In Tool	5.00			3828.00	
Hydraulic tool	5.00			3833.00	
Packer	4.00			3837.00	20.00 Bottom Of Top Packer
Packer	5.00			3842.00	
Stubb	1.00			3843.00	
Recorder	0.00	6719	Outside	3843.00	
Recorder	0.00	6773	Outside	3843.00	
Perforations	2.00			3845.00	
Change Over Sub	1.00			3846.00	
Drill Pipe	95.00			3941.00	
Change Over Sub	1.00			3942.00	
Bullnose	3.00			3945.00	103.00 Bottom Packers & Anchor

Total Tool Length: 123.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Kurt Talbolt

2-22s-15w Pawnee, KS
Blackwell A #1
Job Ticket: 52024 **DST#: 6**
Test Start: 2014.05.22 @ 00:37:00

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:	29000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7600.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

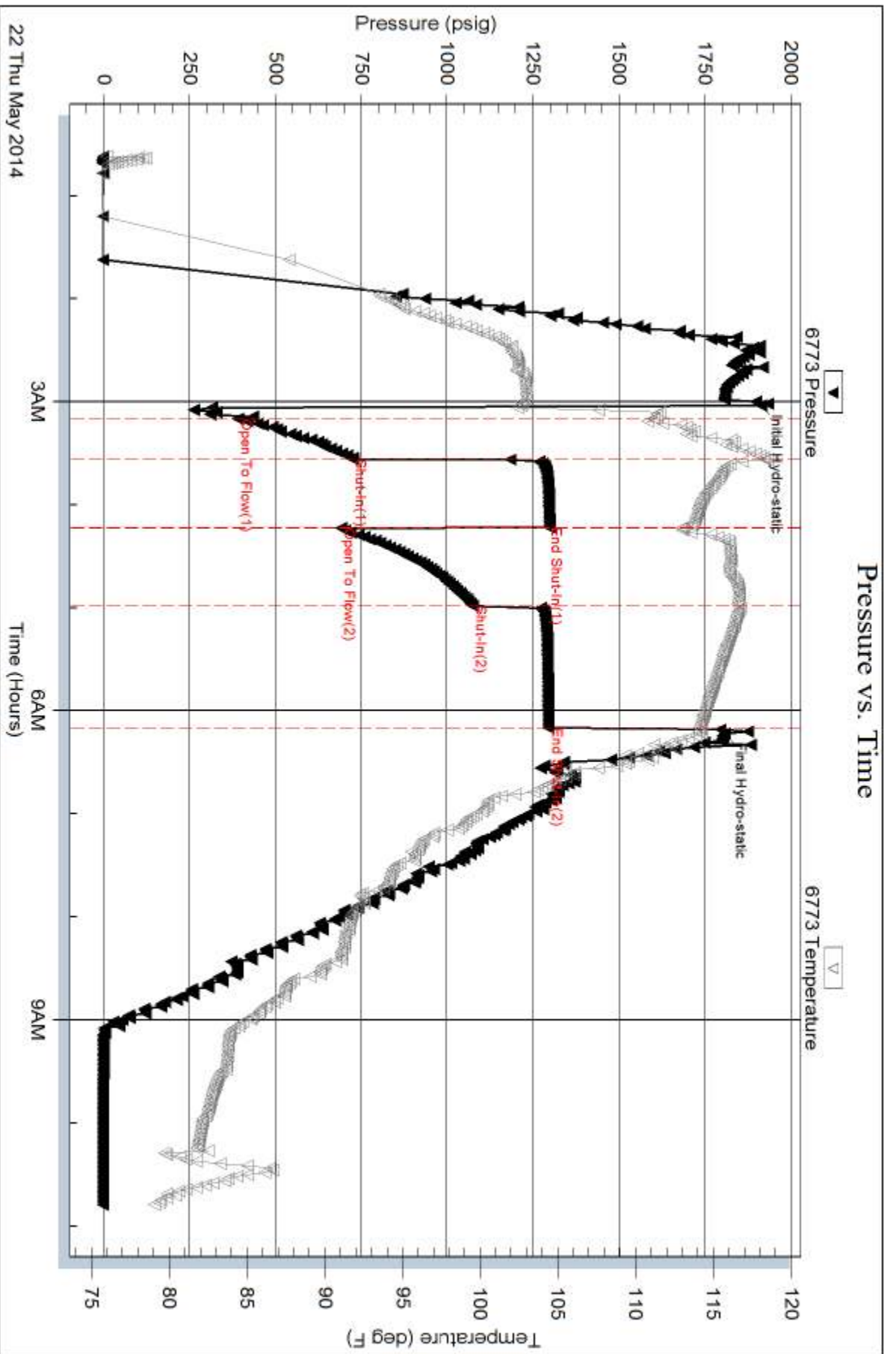
Length ft	Description	Volume bbl
124.00	MWGO 1%m 5%w 9%g 85%o	1.739
496.00	MWGO 2%m 13%w 15%g 70%o	6.958
496.00	MWGO 1%m 12%w 43%o 44%g	6.958
124.00	MWOG 10%m 15%w 30%o 45%g	1.739
372.00	MWGO 3%m 15%w 25%g 57%o	5.218
372.00	MWGO 10%m 20%w 25%g 45%o	5.218
310.00	MWGO 4%m 15%w 35%g 46%o	4.348
310.00	MWOCG 3%m 17%w 30%o 50%g	4.348
341.00	WCGM 1%w 29%g 70%m	4.783
0.00	93' G.I.P. 100%g	0.000

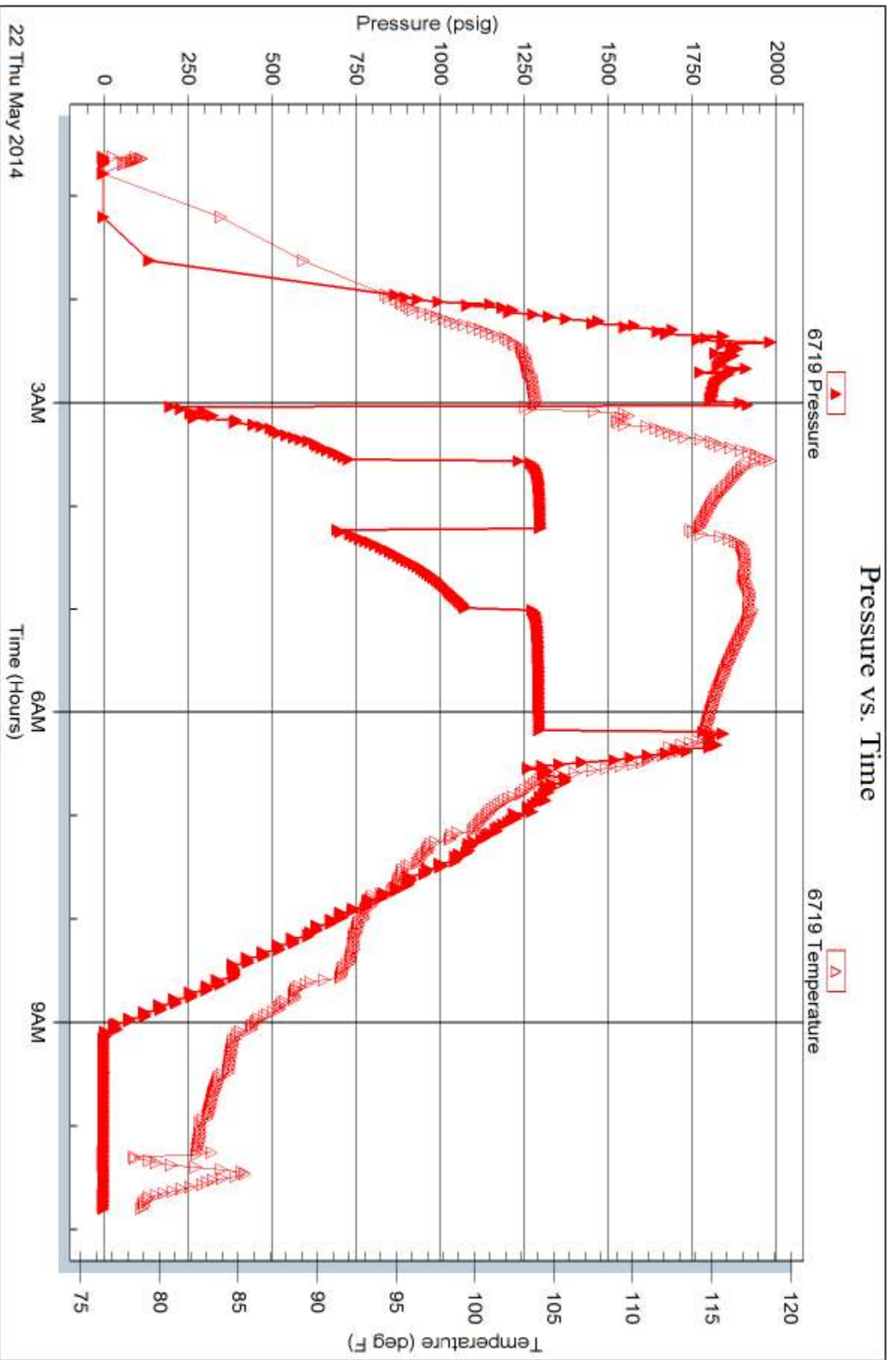
Total Length: 2945.00 ft Total Volume: 41.309 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments: RW .22 @ 74 degrees = 29,000







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52019

4/10

Well Name & No. Blackwell A #1 Test No. 1 Date 5/18/14
 Company Charter Energy, Inc. Elevation 1977 KB 1971 GL
 Address P.O. Box 252 Great Bend, Ks. 67530
 Co. Rep / Geo. Kurt Talbott Rig Royal Drilling #10
 Location: Sec. 2 Twp. 22s Rge. 15w Co. Pawnee State Ks.

Interval Tested 3640 - 3680 Zone Tested Lansing "H"
 Anchor Length 40' Drill Pipe Run 3648 Mud Wt. 9.1
 Top Packer Depth 3635 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3640 Wt. Pipe Run 0 WL 8.0
 Total Depth 3680 Chlorides 4,400 ppm System LCM 0#

Blow Description IF: Strong blow. B.O.B. in 7 mins.
ISI: Weak blow. Surf., - 1/2".
FF: Strong blow. B.O.B. in 9 mins.
FSI: Weak blow. Surf., - 1/2".

Rec	Feet of	%gas	%oil	%water	%mud
310	G.I.P	100			
62	MWOCG	5	45	30	20
62	mwocg	10	8	42	40
310	OCMW		5	85	10
124	MCW (slt trc oil)		5	85	10

Rec Total 558 BHT _____ Gravity N.A. API RW .11 @ 66 ° F Chlorides 75,000 ppm

(A) Initial Hydrostatic 1785 Test 1150 T-On Location 2340
 (B) First Initial Flow 31 Jars _____ T-Started 2350
 (C) First Final Flow 152 Safety Joint _____ T-Open 0222
 (D) Initial Shut-In 720 Circ Sub _____ T-Pulled 0527
 (E) Second Initial Flow 158 Hourly Standby _____ T-Out 0754
 (F) Second Final Flow 277 Mileage 83.9 128.65 Comments _____
 (G) Final Shut-In 681 Sampler _____
 (H) Final Hydrostatic 1795 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 1278.65
 Total 1278.65
 MP/DST Disc't _____

Approved By _____ Our Representative Matthew A. Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **52020**

Well Name & No. Blackwell A-#1 Test No. 2 Date 5/19/14
 Company Charter Energy, Inc. Elevation 1977 KB 1971 GL
 Address P.O. Box 252 GREAT BEND, KS. 67530
 Co. Rep / Geo. Kurt Talbott Rig Royal Drilling #1
 Location: Sec. 2 Twp. 22S Rge. 15W Co. Pawnee State KS.

Interval Tested 3826 - 3875 Zone Tested Viola
 Anchor Length 49' Drill Pipe Run 3838' Mud Wt. 9.3
 Top Packer Depth 3821 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3826 Wt. Pipe Run 0 WL 9.6
 Total Depth 3875 Chlorides 6,800 ppm System LCM 0#

Blow Description IF: Weak blow. Surface to 1".
ISI: No blow.
FF: No blow.
FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>DRLG mud (w/slight trace of oil)</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 10' BHT 111° Gravity N.A. API RW N.C. @ — °F Chlorides 6,800 ppm

(A) Initial Hydrostatic <u>1953</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2325</u>
(B) First Initial Flow <u>31</u>	<input type="checkbox"/> Jars	T-Started <u>2336</u>
(C) First Final Flow <u>35</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0141</u>
(D) Initial Shut-In <u>45</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0357</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0531</u>
(F) Second Final Flow <u>31</u>	<input checked="" type="checkbox"/> Mileage <u>83</u> ^{mi} <u>128.65</u>	Comments
(G) Final Shut-In <u>41</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1942</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>45</u>	<input type="checkbox"/> Day Standby	Total <u>1278.65</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1278.65</u>	

Approved By _____ Our Representative Matthew A. Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52021

Well Name & No. Blackwell A-#1 Test No. 3 Date 5-20-14
 Company Charter Energy, Inc. Elevation 1977 KB 1971 GL
 Address P.O. Box 252 Great Bend, KS. 67530
 Co. Rep / Geo. Kurt Talbot Rig Royal Drilling #1
 Location: Sec. 2 Twp. 22s Rge. 15w Co. Pawnee State KS.

Interval Tested 3846 - 3925 Zone Tested Simpson Sand
 Anchor Length 79' Drill Pipe Run 3835 Mud Wt. 9.1
 Top Packer Depth 3841 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3846 Wt. Pipe Run 0 WL 11.6
 Total Depth 3925 Chlorides 7,800 ppm System LCM 0

Blow Description IF: Opened at Packer Sealure

ESI: —
FF: —
FSI: —

Rec	Feet of	%gas	%oil	%water	%mud
<u>248</u>	<u>Drilling mud</u>			<u>100</u>	<u>0</u>
<u>124</u>	<u>Drilling mud</u>			<u>100</u>	<u>0</u>

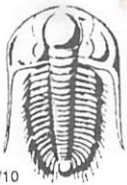
Rec Total 372 BHT 106° Gravity N.A. API RW N.C. @ — °F Chlorides 7,800 ppm
 (A) Initial Hydrostatic 1970 Test 950
 (B) First Initial Flow 910 Jars _____
 (C) First Final Flow _____ Safety Joint _____
 (D) Initial Shut-In _____ Circ Sub _____
 (E) Second Initial Flow _____ Hourly Standby _____
 (F) Second Final Flow _____ Mileage 83 → 128.65
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1867 Straddle _____
 Initial Open 30 - Pulled Shale Packer _____
 Initial Shut-In _____ Extra Packer _____
 Final Flow _____ Extra Recorder _____
 Final Shut-In _____ Day Standby _____
 Accessibility _____

T-On Location 1645
 T-Started 1651
 T-Open 1818
 T-Pulled 1821
 T-Out 2019

Comments Packer Sealure, pull Reset Packer depth Run DS

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1078.65
 MP/DST Disc't _____

Approved By _____
 Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52022

4/10

Well Name & No. Blackwell A-#1 Test No. 4 Date 5/20/14
 Company Charter Energy, Inc. Elevation 1977 KB 1971 GL
 Address P.O. Box 252 Great Bend, KS. 67530
 Co. Rep / Geo. Kurt Talbot Rig Royal Drilling Rig #1
 Location: Sec. 2 Twp. 22s Rge. 15w Co. Pawnee State KS.

Interval Tested 3827 - 3925 Zone Tested Viola - Simpson Sand
 Anchor Length 98' Drill Pipe Run 3836 Mud Wt. 9.1
 Top Packer Depth 3822 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3827 Wt. Pipe Run 0 WL 11.6
 Total Depth 3925 Chlorides 7.800 ppm System LCM 0⁺

Blow Description IF: Opened Packer Failure
 ISI: _____
 FF: _____
 FSI: _____

Rec	Feet of	%gas	%oil	%water	%mu
<u>82</u>	<u>Drilling mud</u>				<u>100</u>
<u>124</u>	<u>Drilling mud</u>				<u>100</u>
_____	_____				_____
_____	_____				_____
_____	_____				_____

Rec Total 206' BHT _____ Gravity N.A. API RW N.C @ _____ ° F Chlorides 7.800 ppm

(A) Initial Hydrostatic 1882 Test 950 T-On Location 1645
 (B) First Initial Flow 1574 Jars _____ T-Started 2125
 (C) First Final Flow _____ Safety Joint _____ T-Open 2247
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 2304
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 0059
 (F) Second Final Flow _____ Mileage _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1963 Straddle _____

Initial Open 30 - Packer Failure Shale Packer 250 Ruined Shale Packer _____
 Initial Shut-In _____ Extra Packer _____ Ruined Packer _____
 Final Flow _____ Extra Recorder _____ Extra Copies _____
 Final Shut-In _____ Day Standby _____ Sub Total 0
 Sub Total 1200 Accessibility _____ Total 1200
 MP/DST Disc't _____

Approved By _____ Our Representative Matthew A. Smith
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52023

Well Name & No. Blackwell A-#1 Test No. 5 Date 5/21/14
 Company Charter Energy, Inc. Elevation 1977 KB 1971 GL
 Address P.O. Box 252 Great Bend, KS. 67530
 Co. Rep / Geo. Kwet Talbot Rig Royal Drilling Rig #2
 Location: Sec. 2 Twp. 22S Rge. 15W Co. Pawnee State KS.

Interval Tested 3843 - 3925 Zone Tested Viola - Simpson Sand
 Anchor Length 82' Drill Pipe Run 3836 Mud Wt. 9.1
 Top Packer Depth 3838 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3843 Wt. Pipe Run 0 WL 11.6
 Total Depth 3925 Chlorides 7,800 ppm System LCM 0th

Blow Description IF: Weak blow, Surf. - 2"
ISI: No blow.
FF: No blow.
FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>DRLG 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 5 BHT 103° Gravity N.A. API RW N.C @ — °F Chlorides 7,800 ppm

(A) Initial Hydrostatic 2002 Test 1150 T-On Location 0345
 (B) First Initial Flow 49 Jars _____ T-Started 0548
 (C) First Final Flow 57 Safety Joint _____ T-Open 0729
 (D) Initial Shut-In 120 Circ Sub _____ T-Pulled 1013
 (E) Second Initial Flow 53 Hourly Standby _____ T-Out 1148
 (F) Second Final Flow 57 Mileage 83.9? 128.65 Comments went got new Hyd. tool. left location @ 1:45. Geo requested new tool, still running shale.
 (G) Final Shut-In 69 Sampler _____ Ruined Shale Packer _____
 (H) Final Hydrostatic 1930 Straddle _____ Ruined Packer _____
 Shale Packer 250 Extra Copies _____
 Extra Packer _____ Sub Total 0
 Extra Recorder _____ Total 1528.65
 Day Standby _____ MP/DST Disc't _____
 Accessibility _____
 Sub Total 1528.65

Approved By _____ Our Representative Matthew A. Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52024

Well Name & No. Blackwell A- #1 Test No. 6 Date 5/22/14
 Company CHARTER Energy, Inc. Elevation 1977 KB 1971 GL
 Address P.O. Box 252 Great Bend, Ks. 67530
 Co. Rep / Geo. Kurt Talbot Rig Royal Drilling Rig #1
 Location: Sec. 2 Twp. 22S Rge. 15W Co. Pawnee State KS.

Interval Tested 3842 - 3945 Zone Tested Arbuckle
 Anchor Length 103' Drill Pipe Run 3837 Mud Wt. 9.5
 Top Packer Depth 3837 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 3842 Wt. Pipe Run 0 WL 10.4
 Total Depth 3945 Chlorides 7.600 ppm System LCM 0
 Blow Description IF: Strong blow. B.O.B. 2 1/2 mins.

ISI: No blow.
 FF: Strong blow. B.O.B. 2 1/2 mins
 FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
93'	G.I.P	100			
403'	Gwcm	29		1	70
1550'	MW 60	37	45	15	3
558'	MW 60	15	70	13	2
124'	MW 60	9	85	5	1

Rec Total 2945' (2945) BHT 114° Gravity N.A. API RW 0.22 @ 74 ° F Chlorides 29,000 ppm

(A) Initial Hydrostatic 1898 Test 1150 T-On Location 0027
 (B) First Initial Flow 392 Jars _____ T-Started 0037
 (C) First Final Flow 725 Safety Joint _____ T-Open 0309
 (D) Initial Shut-In 1296 Circ Sub _____ T-Pulled 0611
 (E) Second Initial Flow 691 Hourly Standby _____ T-Out 1047
 (F) Second Final Flow 1074 Mileage 839 128.65 Comments still running shale
 (G) Final Shut-In 1297 Sampler _____
 (H) Final Hydrostatic 1794 Straddle _____
 Shale Packer ?? 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1528.65
 Sub Total 1528.65 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 40

Approved By _____ Our Representative Matthew J. Smith

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