



DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530-0252

ATTN: Steve Baize/Wyatt Ur

Schumacher Trust #1

2-21S-14W Stafford, KS

Start Date: 2018.09.18 @ 01:52:00

End Date: 2018.09.18 @ 07:35:20

Job Ticket #: 63816 DST #: 1

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

Printed: 2018.09.20 @ 08:39:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Charter Energy, Inc.

2-21S-14W Stafford, KS

PO Box 252
Great Bend, KS 67530-0252

Schumacher Trust #1

ATTN: Steve Baize/Wyatt Ur

Job Ticket: 63816

DST#: 1

Test Start: 2018.09.18 @ 01:52:00

GENERAL INFORMATION:

Formation: **LKC D - G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:24:10

Time Test Ended: 07:35:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 3317.00 ft (KB) To 3357.00 ft (KB) (TVD)

Reference Elevations: 1917.00 ft (KB)

Total Depth: 3357.00 ft (KB) (TVD)

1910.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8369 Outside

Press@RunDepth: 99.67 psig @ 3318.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.18

End Date: 2018.09.18

Last Calib.: 2018.09.18

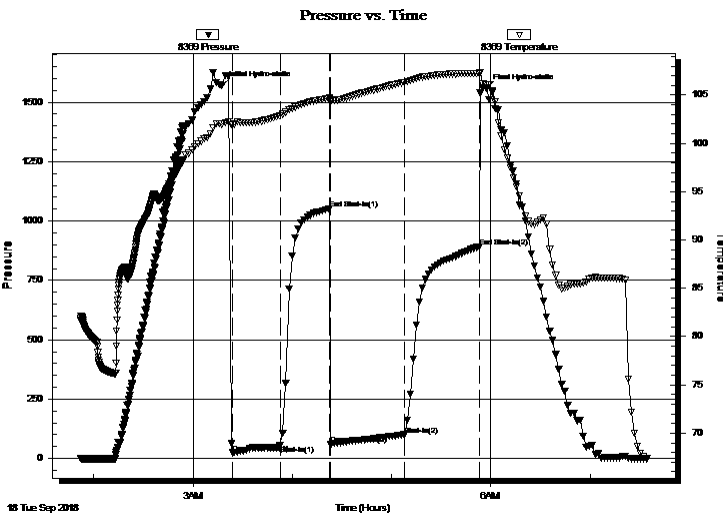
Start Time: 01:52:01

End Time: 07:35:20

Time On Btm: 2018.09.18 @ 03:17:30

Time Off Btm: 2018.09.18 @ 05:57:20

TEST COMMENT: IF - Weak blow building to strong blow 21 minutes into initial flow period. Continue building to 16"
FF Weak blow building to strong blow 41 minutes into final flow period. Continue to build to 13"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.57	101.99	Initial Hydro-static
7	23.95	101.91	Open To Flow (1)
36	54.18	102.92	Shut-In(1)
65	1051.37	104.67	End Shut-In(1)
66	61.38	104.44	Open To Flow (2)
111	99.67	106.32	Shut-In(2)
156	891.14	107.21	End Shut-In(2)
160	1557.75	106.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	MW 29% M & 71% W	2.38

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

2-21S-14W Stafford, KS

PO Box 252
Great Bend, KS 67530-0252

Schumacher Trust #1

Job Ticket: 63816 **DST#: 1**

ATTN: Steve Baize/Wyatt Ur

Test Start: 2018.09.18 @ 01:52:00

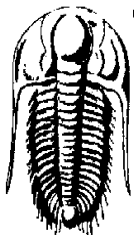
Tool Information

Drill Pipe:	Length: 3306.00 ft	Diameter: 3.80 inches	Volume: 46.37 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: 46.37 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3317.00 ft			Final 55000.00 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			3298.00	
Shut In Tool	5.00			3303.00	
Hydraulic tool	5.00			3308.00	
Packer	5.00			3313.00	20.00 Bottom Of Top Packer
Packer	4.00			3317.00	
Stubb	1.00			3318.00	
Recorder	0.00	8369	Outside	3318.00	
Recorder	0.00	8846	Inside	3318.00	
Perforations	34.00			3352.00	
Bullnose	5.00			3357.00	40.00 Bottom Packers & Anchor
Total Tool Length:	60.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

2-21S-14W Stafford, KS

PO Box 252
Great Bend, KS 67530-0252

Schumacher Trust #1

Job Ticket: 63816 **DST#: 1**

ATTN: Steve Baize/Wyatt Ur

Test Start: 2018.09.18 @ 01:52:00

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:	86000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.88 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

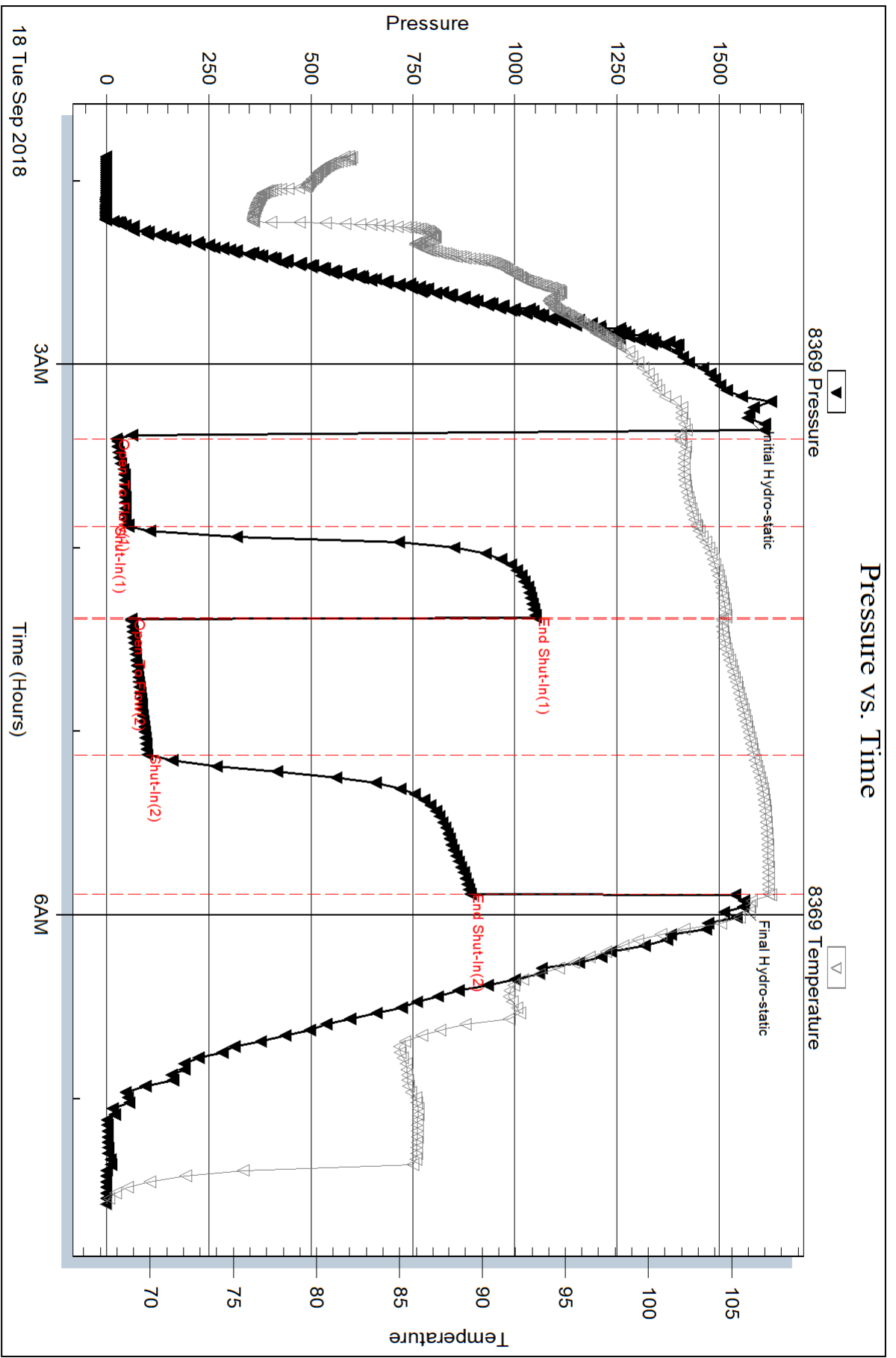
Length ft	Description	Volume bbl
170.00	MW 29% M & 71% W	2.385

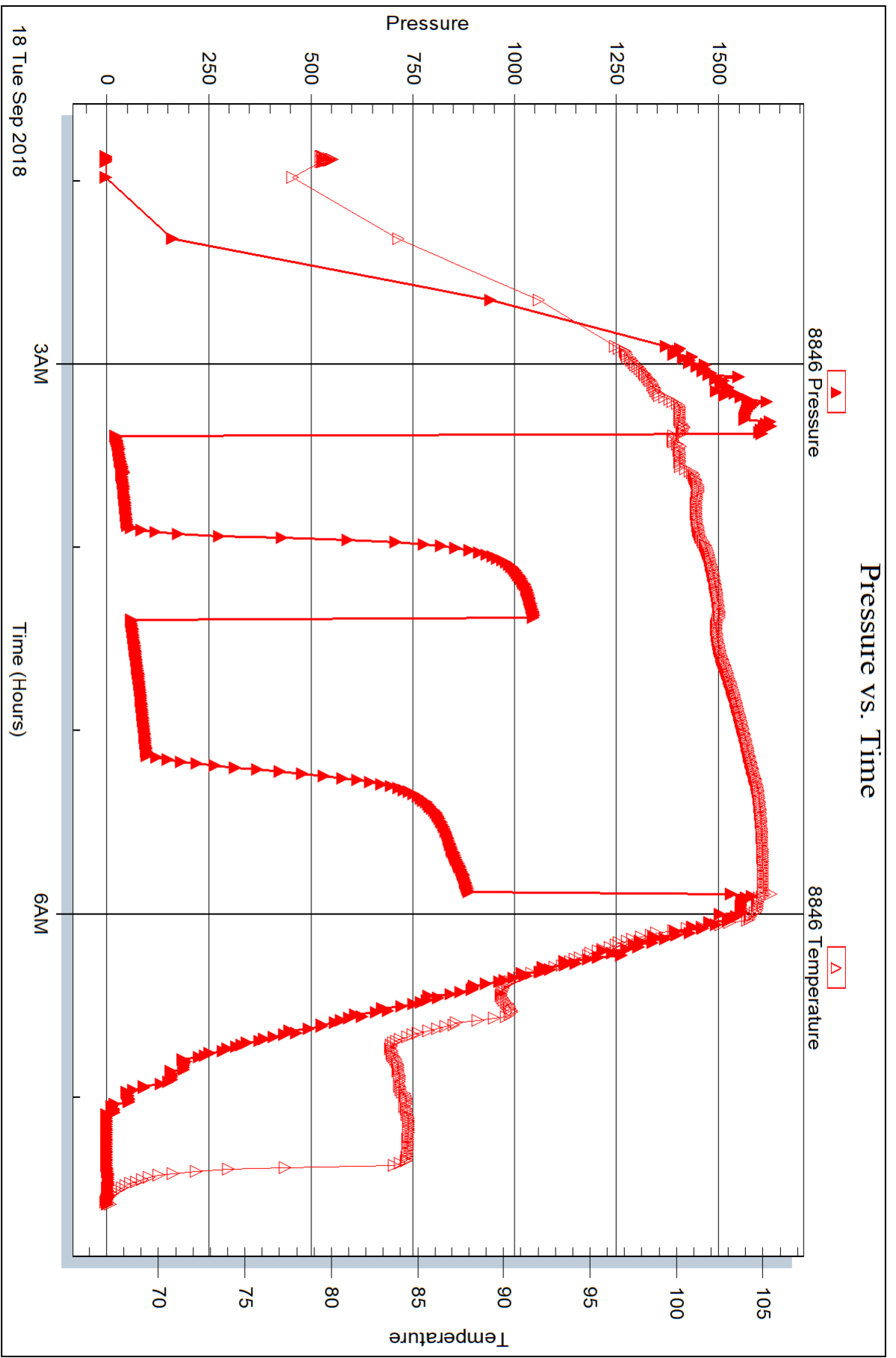
Total Length: 170.00 ft Total Volume: 2.385 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530-0252

ATTN: Steve Baize/Wyatt Ur

Schumacher Trust #1

2-21S-14W Stafford, KS

Start Date: 2018.09.18 @ 16:43:00

End Date: 2018.09.18 @ 20:29:10

Job Ticket #: 63817 DST #: 2

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

Printed: 2018.09.20 @ 08:38:49



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc.

2-21S-14W Stafford, KS

PO Box 252
Great Bend, KS 67530-0252

Schumacher Trust #1

ATTN: Steve Baize/Wyatt Ur

Job Ticket: 63817

DST#: 2

Test Start: 2018.09.18 @ 16:43:00

GENERAL INFORMATION:

Formation: **LKC H - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:47:50

Time Test Ended: 20:29:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 3382.00 ft (KB) To 3434.00 ft (KB) (TVD)

Reference Elevations: 1917.00 ft (KB)

Total Depth: 3434.00 ft (KB) (TVD)

1910.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8369 Outside

Press@RunDepth: 16.42 psig @ 3383.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.18 End Date: 2018.09.18

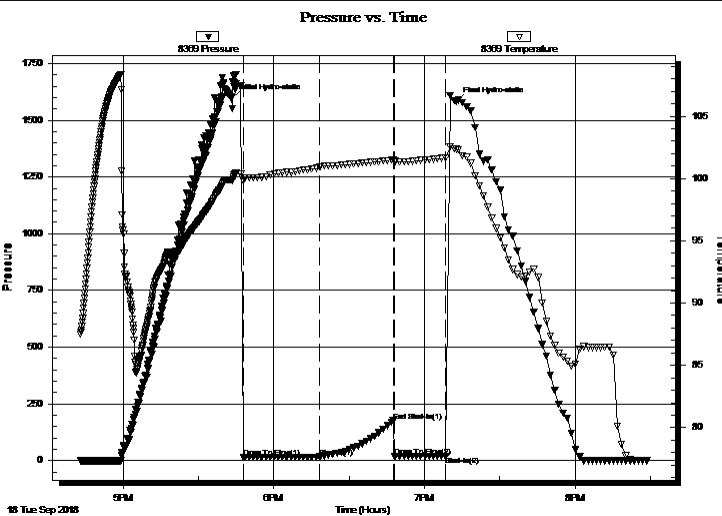
Last Calib.: 2018.09.18

Start Time: 16:43:01 End Time: 20:29:10

Time On Btm: 2018.09.18 @ 17:43:16

Time Off Btm: 2018.09.18 @ 19:12:40

TEST COMMENT: IF - Weak blow building to 1/2" initial flow period.
FF - No blow, pulled test after 20 minutes in final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1596.95	99.88	Initial Hydro-static
5	13.08	99.84	Open To Flow (1)
35	16.42	100.92	Shut-In(1)
65	175.20	101.49	End Shut-In(1)
65	18.02	101.40	Open To Flow (2)
86	19.36	101.66	Shut-In(2)
90	1581.40	102.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drilling mud 100% M	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

2-21S-14W Stafford, KS

PO Box 252
Great Bend, KS 67530-0252

Schumacher Trust #1

Job Ticket: 63817

DST#: 2

ATTN: Steve Baize/Wyatt Ur

Test Start: 2018.09.18 @ 16:43:00

Tool Information

Drill Pipe:	Length: 3370.00 ft	Diameter: 3.80 inches	Volume: 47.27 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 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: 47.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3382.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.00 ft				
Tool Length:	72.00 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			3363.00	
Shut In Tool	5.00			3368.00	
Hydraulic tool	5.00			3373.00	
Packer	5.00			3378.00	20.00 Bottom Of Top Packer
Packer	4.00			3382.00	
Stubb	1.00			3383.00	
Recorder	0.00	8369	Outside	3383.00	
Recorder	0.00	8846	Inside	3383.00	
Perforations	10.00			3393.00	
Change Over Sub	0.50			3393.50	
Blank Spacing	32.00			3425.50	
Change Over Sub	0.50			3426.00	
Perforations	3.00			3429.00	
Bullnose	5.00			3434.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530-0252
ATTN: Steve Baize/Wyatt Ur

2-21S-14W Stafford, KS
Schumacher Trust #1
Job Ticket: 63817 **DST#: 2**
Test Start: 2018.09.18 @ 16:43:00

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:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drilling mud 100% M	0.281

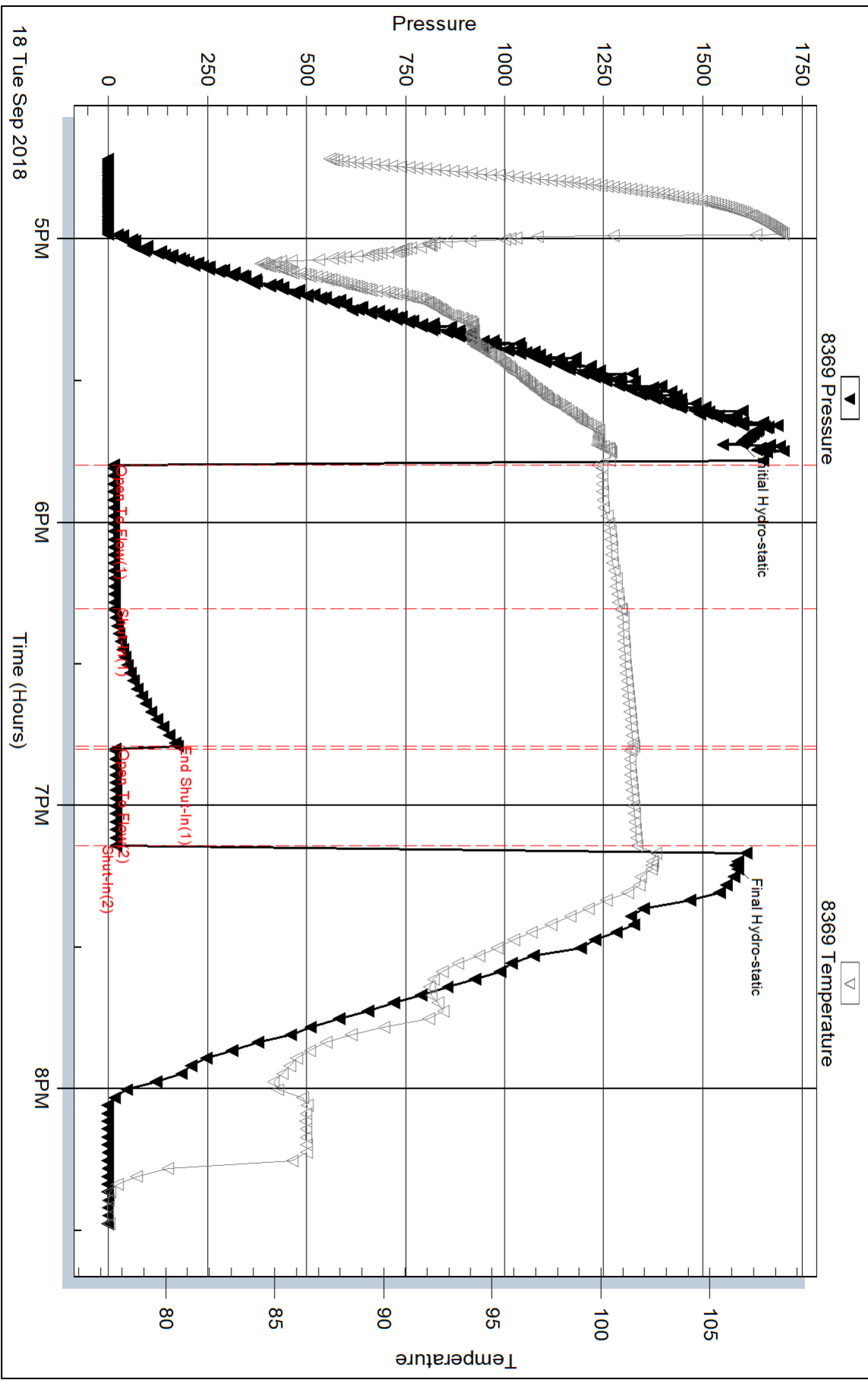
Total Length: 20.00 ft Total Volume: 0.281 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



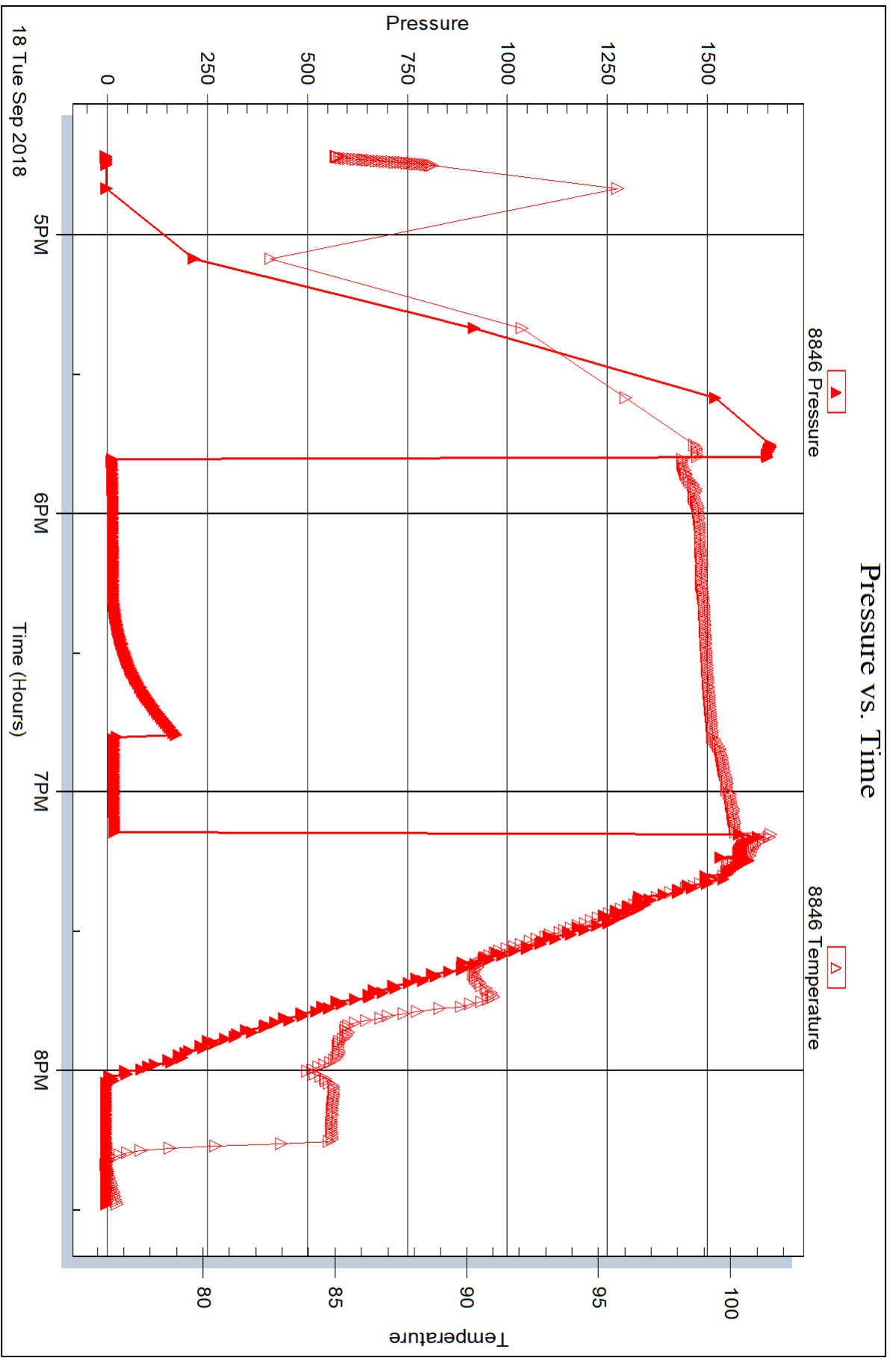
Serial #: 8846

Inside

Charter Energy, Inc.

Schumacher Trust #1

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530-0252

ATTN: Steve Baize/Wyatt Ur

Schumacher Trust #1

2-21S-14W Stafford, KS

Start Date: 2018.09.19 @ 06:38:00

End Date: 2018.09.19 @ 12:26:39

Job Ticket #: 63818 DST #: 3

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

Printed: 2018.09.20 @ 08:37:55



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Charter Energy, Inc.

2-21S-14W Stafford, KS

PO Box 252
Great Bend, KS 67530-0252

Schumacher Trust #1

ATTN: Steve Baize/Wyatt Ur

Job Ticket: 63818

DST#: 3

Test Start: 2018.09.19 @ 06:38:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:17:10

Time Test Ended: 12:26:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 3464.00 ft (KB) To 3516.00 ft (KB) (TVD)

Reference Elevations: 1917.00 ft (KB)

Total Depth: 3516.00 ft (KB) (TVD)

1910.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8369 Outside

Press@RunDepth: 258.89 psig @ 3465.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.19

End Date: 2018.09.19

Last Calib.: 2018.09.19

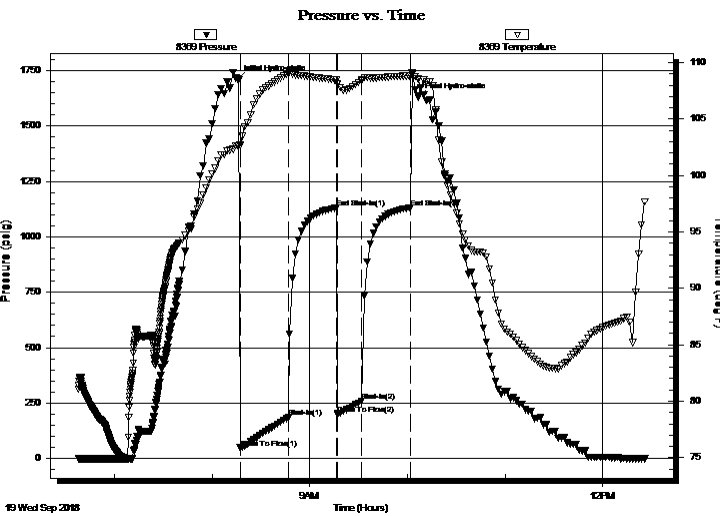
Start Time: 06:38:01

End Time: 12:26:40

Time On Btm: 2018.09.19 @ 08:15:40

Time Off Btm: 2018.09.19 @ 10:07:00

TEST COMMENT: IF - Weak blow building to strong blow 3 minutes into initial flow period. Continuing to build to 68"
IS - 1 1/2" blow back during initial shut-in period.
FF - Weak blow building to strong blow 6 minutes into final flow period. Continuing to build to 25"
FS - No blow back during final shut-in period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.36	102.62	Initial Hydro-static
2	47.79	102.68	Open To Flow (1)
32	184.85	109.03	Shut-In(1)
61	1130.63	108.45	End Shut-In(1)
62	198.31	108.12	Open To Flow (2)
77	258.89	108.44	Shut-In(2)
107	1131.00	108.81	End Shut-In(2)
112	1629.18	108.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	GHOCM 27%G 29%O 33 44% M	1.96
510.00	CO 100% O	7.15
0.00	180' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

2-21S-14W Stafford, KS

PO Box 252
Great Bend, KS 67530-0252

Schumacher Trust #1

Job Ticket: 63818 **DST#: 3**

ATTN: Steve Baize/Wyatt Ur

Test Start: 2018.09.19 @ 06:38:00

Tool Information

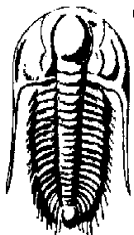
Drill Pipe:	Length: 3465.00 ft	Diameter: 3.80 inches	Volume: 48.60 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 48.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3464.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3445.00	
Shut In Tool	5.00			3450.00	
Hydraulic tool	5.00			3455.00	
Packer	5.00			3460.00	20.00 Bottom Of Top Packer
Packer	4.00			3464.00	
Stubb	1.00			3465.00	
Recorder	0.00	8369	Outside	3465.00	
Recorder	0.00	8846	Inside	3465.00	
Perforations	10.00			3475.00	
Change Over Sub	0.50			3475.50	
Blank Spacing	32.00			3507.50	
Change Over Sub	0.50			3508.00	
Perforations	3.00			3511.00	
Bullnose	5.00			3516.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

2-21S-14W Stafford, KS

PO Box 252
Great Bend, KS 67530-0252

Schumacher Trust #1

Job Ticket: 63818 **DST#: 3**

ATTN: Steve Baize/Wyatt Ur

Test Start: 2018.09.19 @ 06:38:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 12.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 12700.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	GHOCM 27%G 29%O 33 44% M	1.964
510.00	CO 100% O	7.154
0.00	180' GIP	0.000

Total Length: 650.00 ft Total Volume: 9.118 bbl

Num Fluid Samples: 0

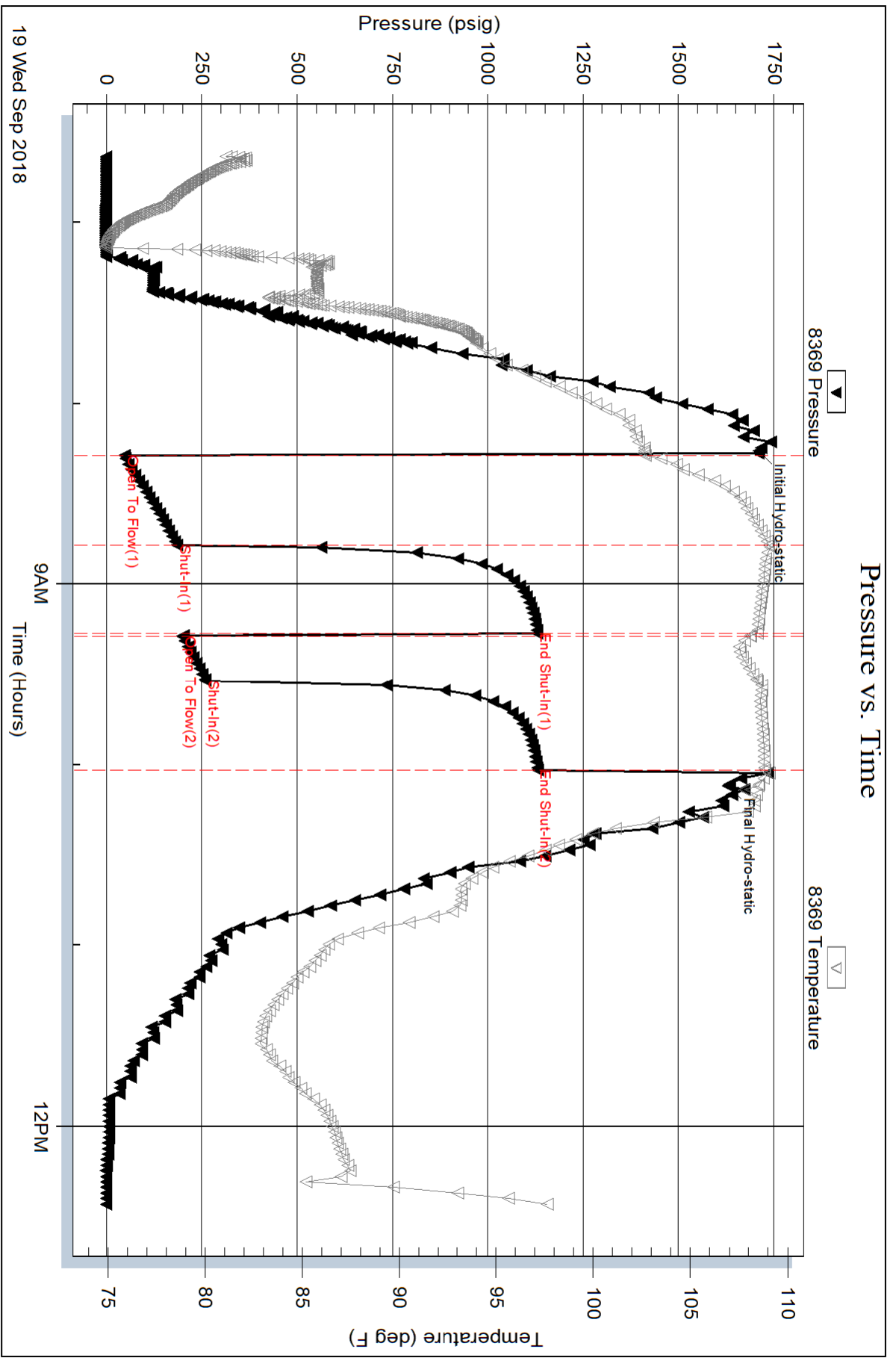
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



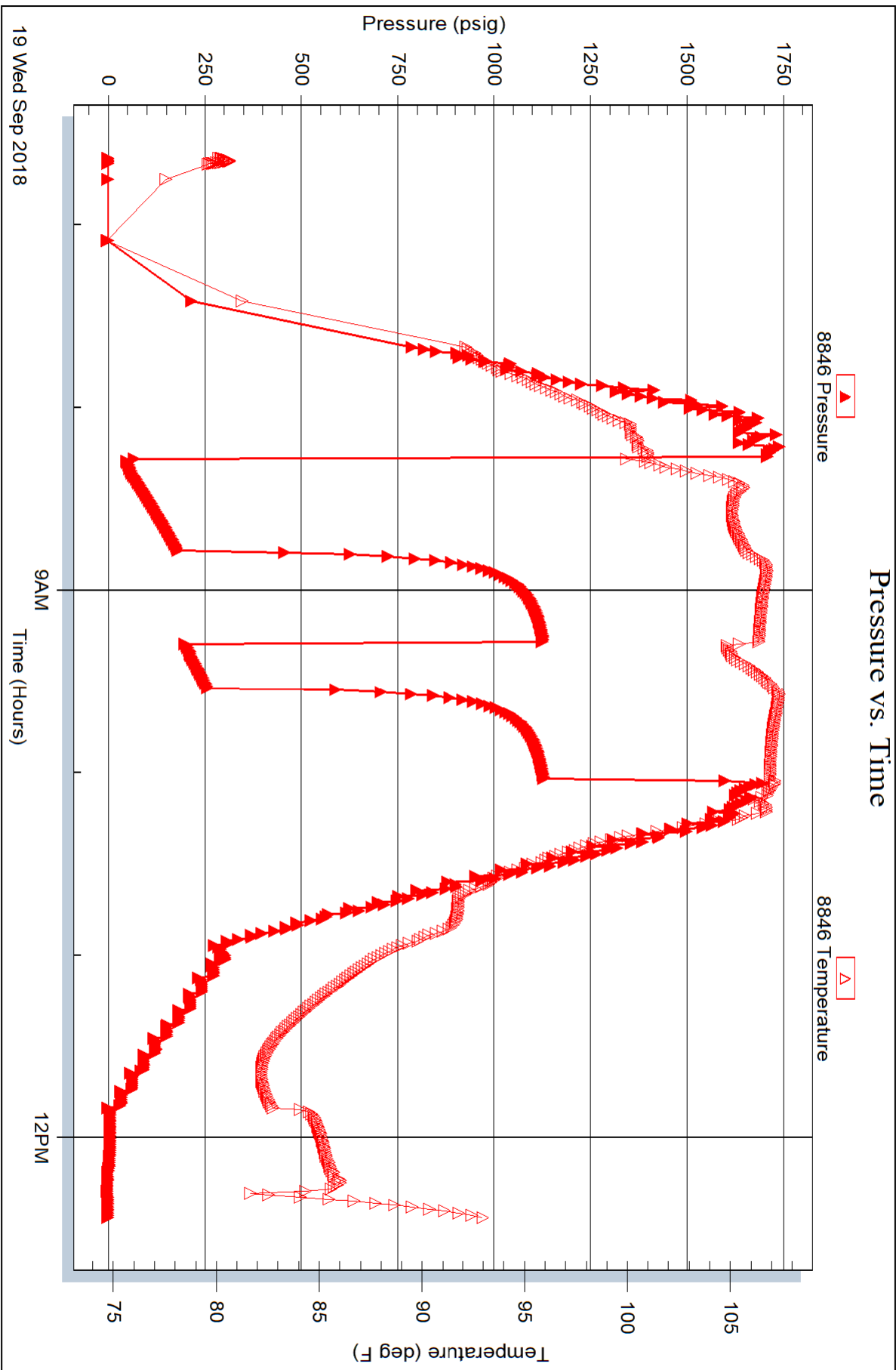
Serial #: 8846

Inside

Charter Energy, Inc.

Schumacher Trust #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63816

Well Name & No. Schumacher Trust #1 Test No. 1 Date 9-18-18
 Company Charter Energy, Inc. Elevation 1917 KB 1910 GL
 Address P.O. Box 252 Great Bend KS, 67530-0252
 Co. Rep / Geo. Steve Baize / Wyatt Urban Rig Royal #2
 Location: Sec. 2 Twp 21 S Rge. 14 W Co. Stafford State Ks

Interval Tested 3317-3357 Zone Tested Lansing D-6
 Anchor Length 40 Drill Pipe Run 3306 Mud Wt. 8.7
 Top Packer Depth 3312 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3317 Wt. Pipe Run 0 WL 8.8
 Total Depth 3357 Chlorides 5800 ppm System LCM

Blow Description IF-weak blow building to Strong blow 21 mins. into IFP. Building to 16 inches total
FF-weak blow building to strong blow 41 mins into FFP. Continued to build to 13 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>170</u>	<u>Heavy mud cat water</u>			<u>71</u>	<u>29</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 170 BHT 107 Gravity API RW0.094 @ 69 °F Chlorides 56,000 ppm
 (A) Initial Hydrostatic 1569 Test 1050 T-On Location 0040
 (B) First Initial Flow 24 Jars _____ T-Started 0152
 (C) First Final Flow 54 Safety Joint _____ T-Open 0323
 (D) Initial Shut-In 1051 Circ Sub _____ T-Pulled 0553
 (E) Second Initial Flow 61 Hourly Standby _____ T-Out 0730
 (F) Second Final Flow 100 Mileage 23rt RT 240 Comments _____
 (G) Final Shut-In 891 Sampler _____
 (H) Final Hydrostatic 1558 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1073 Sub Total 0
 Total 1073 MP/DST Disc't _____

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

Approved By _____ Our Representative Jimmy [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 note 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. 63817

Well Name & No. Schumacher Trust #1 Test No. 2 Date 9-18-18
 Company Charter Energy, Inc. Elevation 1917 KB 1910 GL
 Address P.O. Box 252 Great Bend Ks 67530-0252
 Co. Rep / Geo. Steve Baize / Wyatt Urban Rig Royal #2
 Location: Sec. 2 Twp 21S Rge. 14W Co. Stafford State KS

Interval Tested 3382-3434 Zone Tested Lansing H-J
 Anchor Length 52' Drill Pipe Run 3370 Mud Wt. 9.1
 Top Packer Depth 3377 Drill Collars Run 0 Vis SC
 Bottom Packer Depth 3382 Wt. Pipe Run 0 WL 10.6
 Total Depth 3334 Chlorides 9600 ppm System LCM
 Blow Description IF - weak blow building to 1/2 inch IFP
FF - No blow, pulled test after 20 mins. FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Drilling 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 20 BHT 102 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1597 Test 1050 T-On Location 1615
 (B) First Initial Flow 13 Jars _____ T-Started 164
 (C) First Final Flow 16 Safety Joint _____ T-Open 1748
 (D) Initial Shut-In 17.5 Circ Sub _____ T-Pulled 1908
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 2030
 (F) Second Final Flow 19 Mileage 23 RT 86 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1581 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Initial Open 30 Extra Recorder _____
 Initial Shut-In 30 Day Standby _____
 Final Flow 20 Accessibility _____
 Final Shut-In _____ MP/DST Disc't _____
 Sub Total 1073

Approved By _____ Our Representative Jimmy Dickel
 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. 63818

Well Name & No. Schumacher Trast #1 Test No. 3 Date 9-19-18
 Company Charter Energy, Inc. Elevation 1917 KB 1910 GL
 Address P.O. Box 252 Great Bend KS. 67530-0252
 Co. Rep / Geo. Steve Barize / Wyatt Urban Rig Royal #2
 Location: Sec. 2 Twp 21 S Rge. 14 W Co. Stafford State KS

Interval Tested 3464-3516 Zone Tested Ar buckle
 Anchor Length 52' Drill Pipe Run 3465 Mud Wt. 9.0
 Top Packer Depth 3459 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3464 Wt. Pipe Run 0 WL 12.4
 Total Depth 3515 Chlorides 12,700 ppm System LCM

Blow Description IF-weak blow building to strong blow 3 mins. into IFP. Continuing to build to 68 inch IFP. 1 1/2 inch blow back during ESP
FF-weak blow building to strong blow 6 mins. into FFP. Continuing to build to 25 inches FFP. No blow back during FSP.

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>Heavy gas + oil cut mud</u>	<u>27</u>	<u>29</u>	<u>44</u>	
<u>510</u>	<u>Clean Oil</u>	<u>100</u>			
<u>180</u>	<u>Gas in Pipe</u>	<u>100</u>			

Rec Total 650 BHT 109 Gravity 37.6 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1710 Test 1050 T-On Location 0600
 (B) First Initial Flow 48 Jars T-Started 0638
 (C) First Final Flow 185 Safety Joint T-Open 0817
 (D) Initial Shut-In 1131 Circ Sub T-Pulled 1002
 (E) Second Initial Flow 198 Hourly Standby T-Out 1230
 (F) Second Final Flow 259 Mileage 23 RT 86 Comments
 (G) Final Shut-In 1131 Sampler
 (H) Final Hydrostatic 1629 Straddle
 Ruined Shale Packer
 Ruined Packer

Initial Open 30 Extra Packer Extra Copies
 Initial Shut-In 30 Extra Recorder Sub Total 0
 Final Flow 15 Day Standby Total 1073
 Final Shut-In 30 Accessibility MP/DST Disc't
 Sub Total 1073

Approved By _____ Our Representative Jimmy Richetts

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