



DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Wyatt Urban

Morrison Trust #1

1-21S-14W Stafford,KS

Start Date: 2019.04.18 @ 01:32:36

End Date: 2019.04.18 @ 06:59:27

Job Ticket #: 65681 DST #: 1

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

Printed: 2019.04.22 @ 09:40:56

Charter Energy, Inc. 1-21S-14W Stafford,KS Morrison Trust #1 DST # 1 LKC "H-J" 2019.04.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc.
 PO Box 252
 Great Bend, KS 67530
 ATTN: Wyatt Urban

1-21S-14W Stafford, KS

Morrison Trust #1

Job Ticket: 65681 **DST#: 1**
 Test Start: 2019.04.18 @ 01:32:36

GENERAL INFORMATION:

Formation: **LKC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:02:12
 Time Test Ended: 06:59:27
 Interval: **3448.00 ft (KB) To 3517.00 ft (KB) (TVD)**
 Total Depth: 3517.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1922.00 ft (KB)
 1912.00 ft (CF)
 KB to GR/CF: 10.00 ft

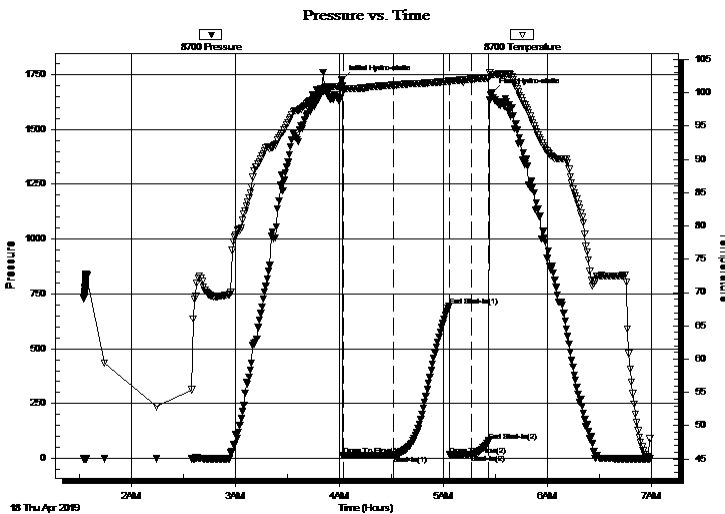
Serial #: 8700

Outside

Press@RunDepth: 19.82 psig @ 3449.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.18 End Date: 2019.04.18 Last Calib.: 2019.04.18
 Start Time: 01:32:37 End Time: 06:59:27 Time On Btm: 2019.04.18 @ 04:01:42
 Time Off Btm: 2019.04.18 @ 05:28:12

TEST COMMENT: 30- IF- 0.75" blow died back to 0.50"
 30- IS- No blow
 10- FF- No blow . Flushed tool. Surface blow died 1min
 10- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1727.58	101.01	Initial Hydro-static
1	14.45	100.52	Open To Flow (1)
30	14.92	101.13	Shut-In(1)
62	695.82	101.74	End Shut-In(1)
62	16.58	101.60	Open To Flow (2)
75	19.82	102.04	Shut-In(2)
85	80.59	102.15	End Shut-In(2)
87	1666.02	102.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Wyatt Urban

1-21S-14W Stafford,KS
Morrison Trust #1
Job Ticket: 65681 **DST#: 1**
Test Start: 2019.04.18 @ 01:32:36

Tool Information

Drill Pipe:	Length: 3456.00 ft	Diameter: 3.82 inches	Volume: 48.99 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 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: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3448.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	89.00 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			3429.00	
Shut In Tool	5.00			3434.00	
Hydraulic tool	5.00			3439.00	
Packer	5.00			3444.00	20.00 Bottom Of Top Packer
Packer	4.00			3448.00	
Stubb	1.00			3449.00	
Recorder	0.00	6771	Inside	3449.00	
Recorder	0.00	8700	Outside	3449.00	
Perforations	31.00			3480.00	
Change Over Sub	1.00			3481.00	
Drill Pipe	32.00			3513.00	
Change Over Sub	1.00			3514.00	
Bullnose	3.00			3517.00	69.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Wyatt Urban

1-21S-14W Stafford,KS
Morrison Trust #1
Job Ticket: 65681 **DST#: 1**
Test Start: 2019.04.18 @ 01:32:36

Mud and Cushion Information

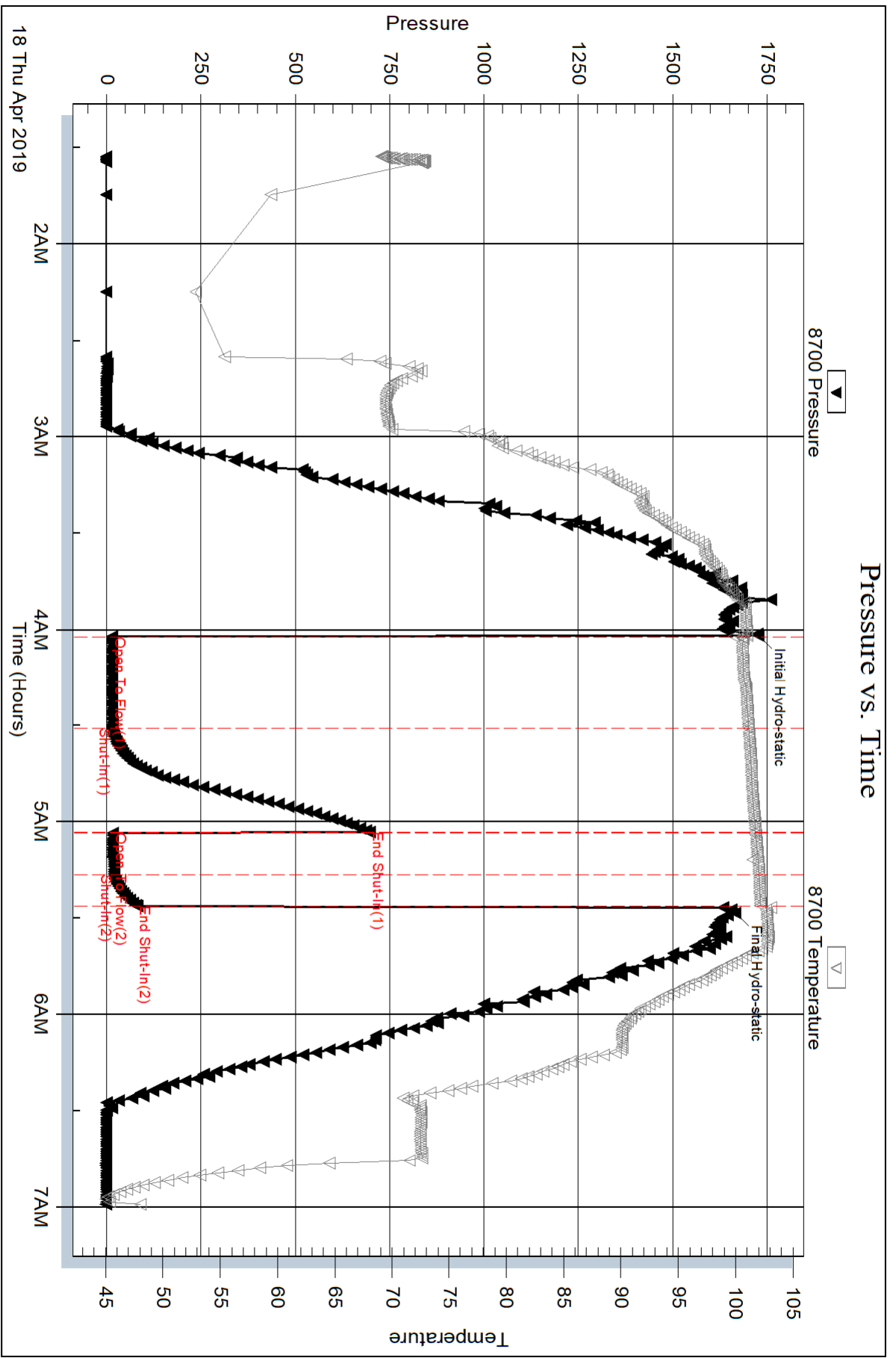
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8200.00 ppm			
Filter Cake: inches			

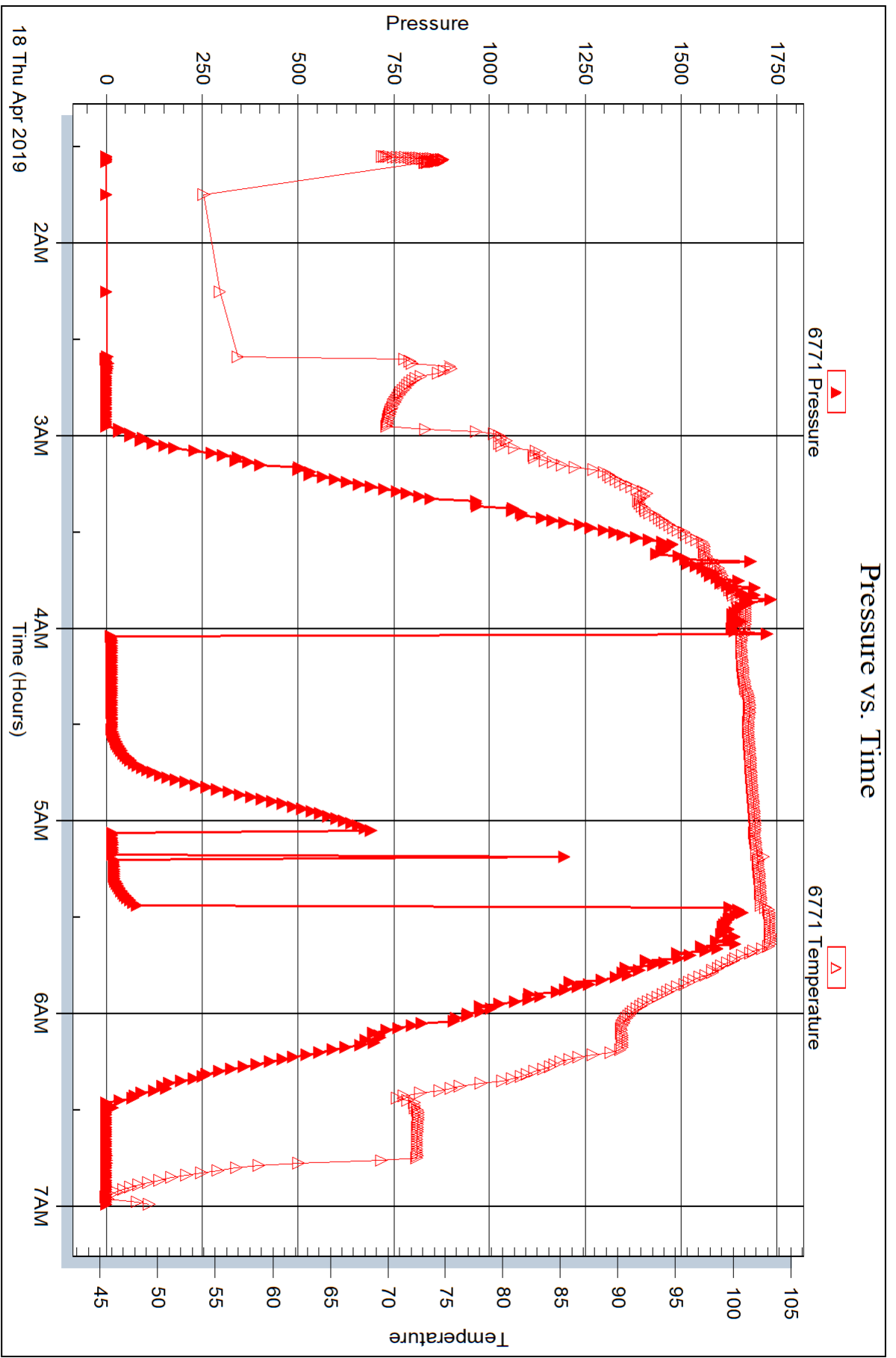
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M	0.213

Total Length: 15.00 ft Total Volume: 0.213 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

ATTN: Wyatt Urban

Morrison Trust #1

1-21S-14W Stafford,KS

Start Date: 2019.04.18 @ 19:14:22

End Date: 2019.04.19 @ 00:52:43

Job Ticket #: 65682 DST #: 2

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

Printed: 2019.04.22 @ 09:37:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc.
 PO Box 252
 Great Bend, KS 67530
 ATTN: Wyatt Urban

1-21S-14W Stafford, KS

Morrison Trust #1

Job Ticket: 65682 **DST#: 2**

Test Start: 2019.04.18 @ 19:14:22

GENERAL INFORMATION:

Formation: **Viola & Upper Simps**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:14:58

Time Test Ended: 00:52:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: **3536.00 ft (KB) To 3592.00 ft (KB) (TVD)**

Reference Elevations: 1922.00 ft (KB)

Total Depth: 3592.00 ft (KB) (TVD)

1912.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8700 Outside

Press@RunDepth: 22.47 psig @ 3537.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.18 End Date: 2019.04.19

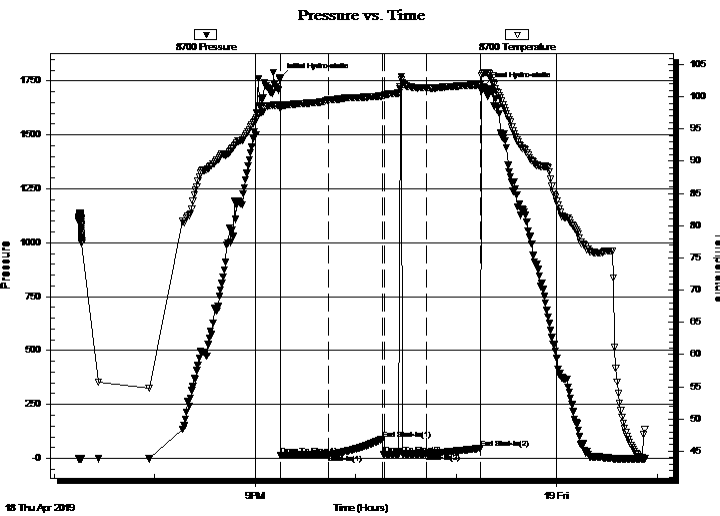
Last Calib.: 2019.04.19

Start Time: 19:14:23 End Time: 00:52:43

Time On Btm: 2019.04.18 @ 21:14:43

Time Off Btm: 2019.04.18 @ 23:16:13

TEST COMMENT: 30- IF- Slowly built to 0.92"
 30- IS- No blow
 30- FF- No blow . Flushed tool. 0.50" blow
 30- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.60	98.84	Initial Hydro-static
1	15.16	98.19	Open To Flow (1)
30	16.87	99.56	Shut-In(1)
62	90.38	100.13	End Shut-In(1)
63	18.24	100.24	Open To Flow (2)
88	22.47	101.38	Shut-In(2)
120	47.08	101.87	End Shut-In(2)
122	1722.44	103.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM	0.28

* 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.
PO Box 252
Great Bend, KS 67530
ATTN: Wyatt Urban

1-21S-14W Stafford,KS
Morrison Trust #1
Job Ticket: 65682 **DST#: 2**
Test Start: 2019.04.18 @ 19:14:22

Tool Information

Drill Pipe:	Length: 3520.00 ft	Diameter: 3.82 inches	Volume: 49.90 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	63000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3536.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 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
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Change Over Sub	1.00			3517.00	
Shut In Tool	5.00			3522.00	
Hydraulic tool	5.00			3527.00	
Packer	5.00			3532.00	20.00 Bottom Of Top Packer
Packer	4.00			3536.00	
Stubb	1.00			3537.00	
Recorder	0.00	6771	Inside	3537.00	
Recorder	0.00	8700	Outside	3537.00	
Perforations	18.00			3555.00	
Change Over Sub	1.00			3556.00	
Drill Pipe	32.00			3588.00	
Change Over Sub	1.00			3589.00	
Bullnose	3.00			3592.00	56.00 Bottom Packers & Anchor

Total Tool Length: 76.00



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FLUID SUMMARY

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Wyatt Urban

1-21S-14W Stafford,KS
Morrison Trust #1
Job Ticket: 65682 **DST#: 2**
Test Start: 2019.04.18 @ 19:14:22

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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 20.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 14800.00 ppm			
Filter Cake: inches			

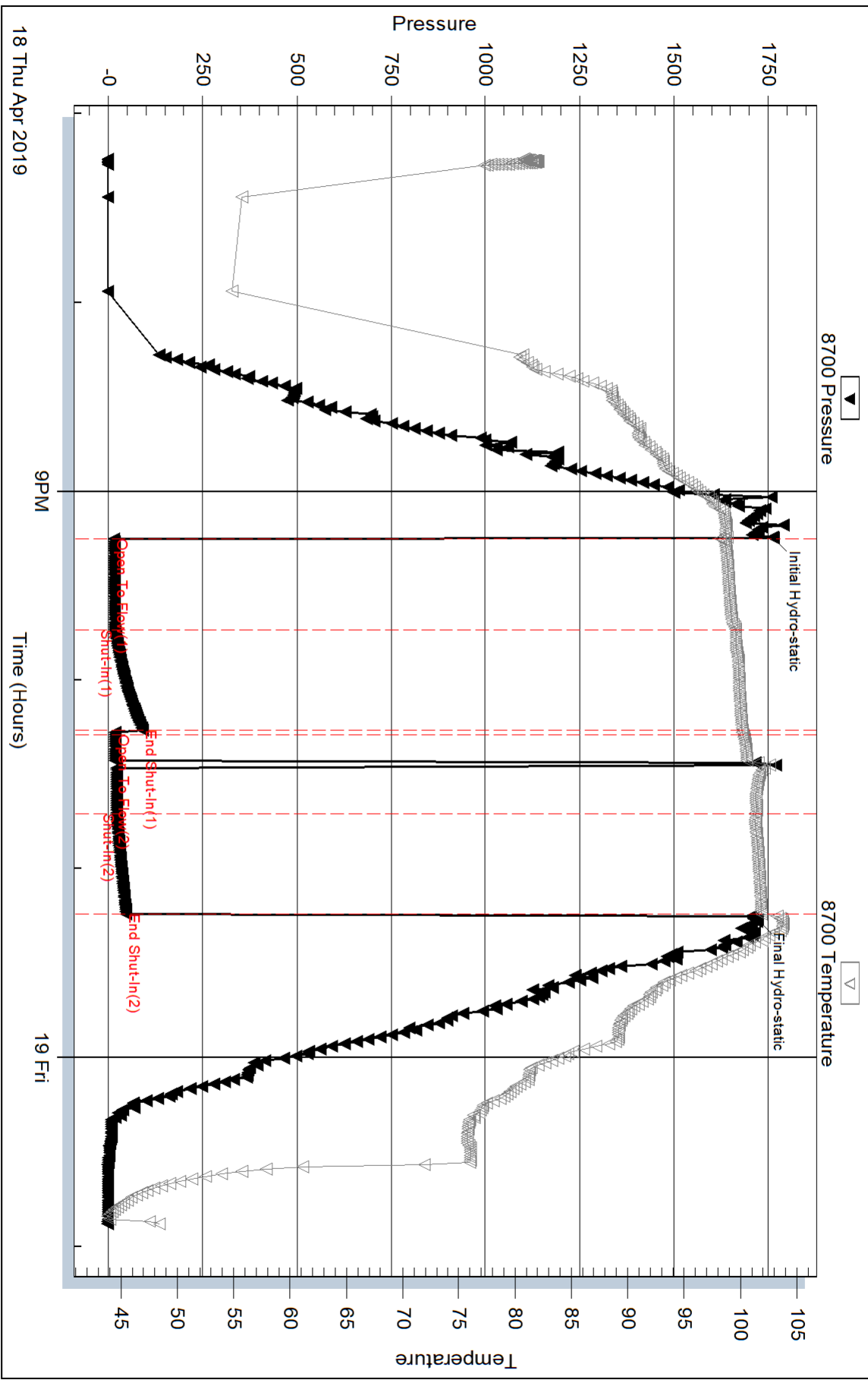
Recovery Information

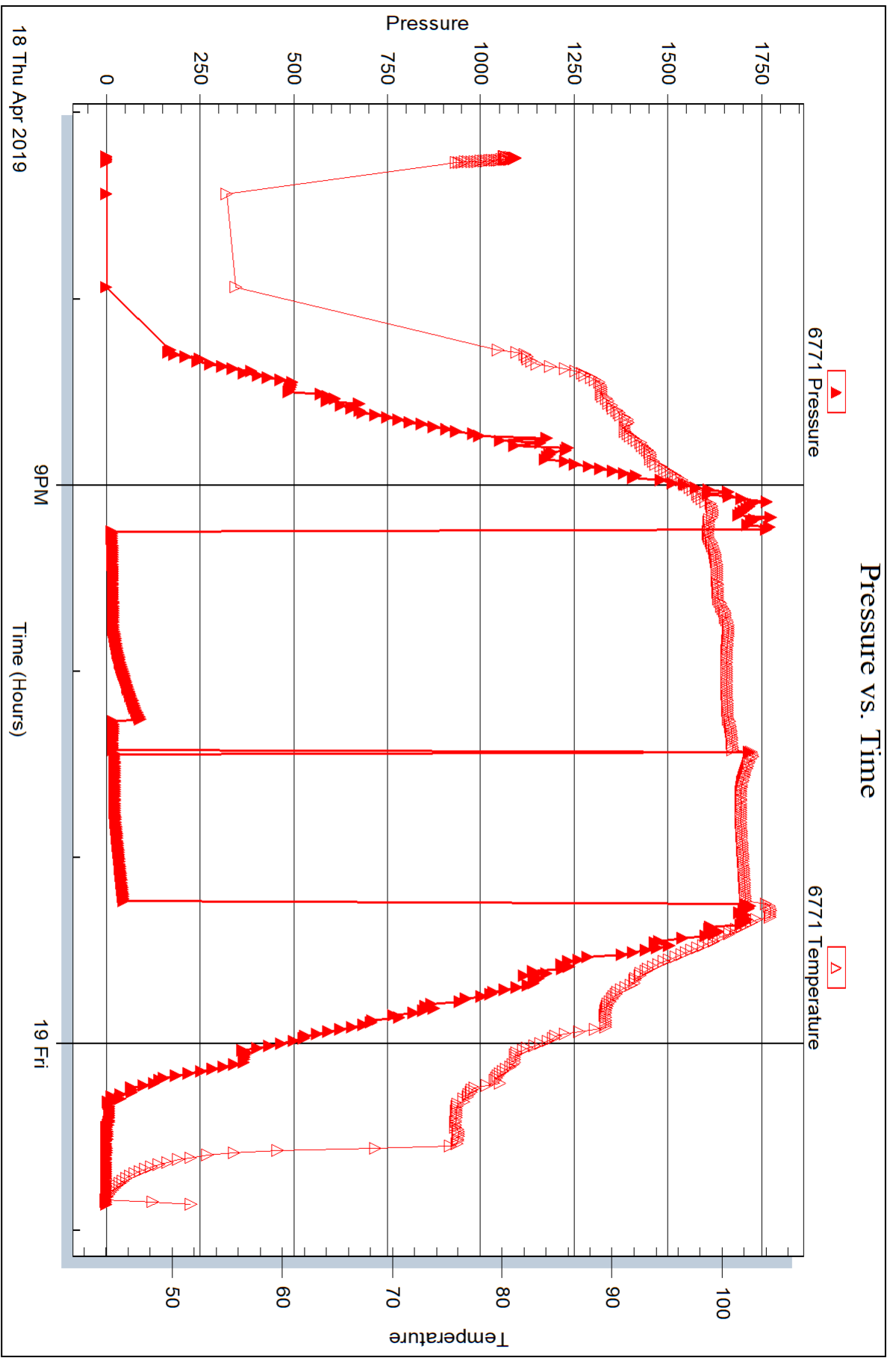
Recovery Table

Length ft	Description	Volume bbl
20.00	OSM	0.284

Total Length: 20.00 ft Total Volume: 0.284 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Wyatt Urban

Morrison Trust #1

1-21S-14W Stafford,KS

Start Date: 2019.04.19 @ 07:37:17

End Date: 2019.04.19 @ 14:20:08

Job Ticket #: 65683 DST #: 3

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

Printed: 2019.04.22 @ 09:30:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc.
 PO Box 252
 Great Bend, KS 67530
 ATTN: Wyatt Urban

1-21S-14W Stafford, KS

Morrison Trust #1

Job Ticket: 65683 **DST#: 3**

Test Start: 2019.04.19 @ 07:37:17

GENERAL INFORMATION:

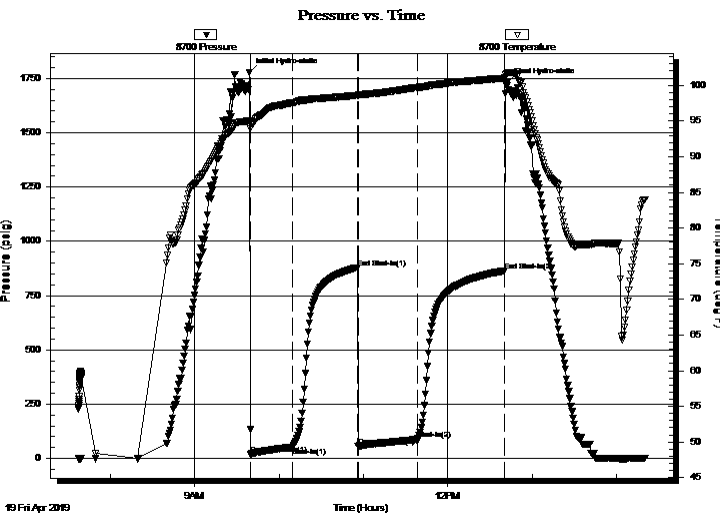
Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:39:53
 Time Test Ended: 14:20:08
 Interval: **3544.00 ft (KB) To 3609.00 ft (KB) (TVD)**
 Total Depth: 3609.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1922.00 ft (KB)
 1912.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8700

Outside

Press@RunDepth: 87.04 psig @ 3545.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.19 End Date: 2019.04.19 Last Calib.: 2019.04.19
 Start Time: 07:37:18 End Time: 14:20:08 Time On Btm: 2019.04.19 @ 09:38:53
 Time Off Btm: 2019.04.19 @ 12:42:08

TEST COMMENT: 30- IF- Slowly built to 10.74"
 45- IS- No blow
 45- FF- BOB 26 mins. Built to 16.96"
 60- FS- Built to 0.76"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1778.18	95.05	Initial Hydro-static
1	20.29	94.55	Open To Flow (1)
31	52.13	97.57	Shut-In(1)
77	878.75	98.60	End Shut-In(1)
78	54.32	98.60	Open To Flow (2)
120	87.04	99.69	Shut-In(2)
182	864.43	101.00	End Shut-In(2)
184	1733.41	101.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GHOCM, 20%G 30%O 50%M	1.77
50.00	CO	0.71
0.00	20' 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

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Wyatt Urban

1-21S-14W Stafford,KS
Morrison Trust #1
Job Ticket: 65683 **DST#: 3**
Test Start: 2019.04.19 @ 07:37:17

Tool Information

Drill Pipe:	Length: 3551.00 ft	Diameter: 3.82 inches	Volume: 50.34 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3544.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	85.00 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			3525.00	
Shut In Tool	5.00			3530.00	
Hydraulic tool	5.00			3535.00	
Packer	5.00			3540.00	20.00 Bottom Of Top Packer
Packer	4.00			3544.00	
Stubb	1.00			3545.00	
Recorder	0.00	6771	Inside	3545.00	
Recorder	0.00	8700	Outside	3545.00	
Perforations	27.00			3572.00	
Change Over Sub	1.00			3573.00	
Drill Pipe	32.00			3605.00	
Change Over Sub	1.00			3606.00	
Bullnose	3.00			3609.00	65.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Wyatt Urban

1-21S-14W Stafford,KS
Morrison Trust #1
Job Ticket: 65683 **DST#: 3**
Test Start: 2019.04.19 @ 07:37:17

Mud and Cushion Information

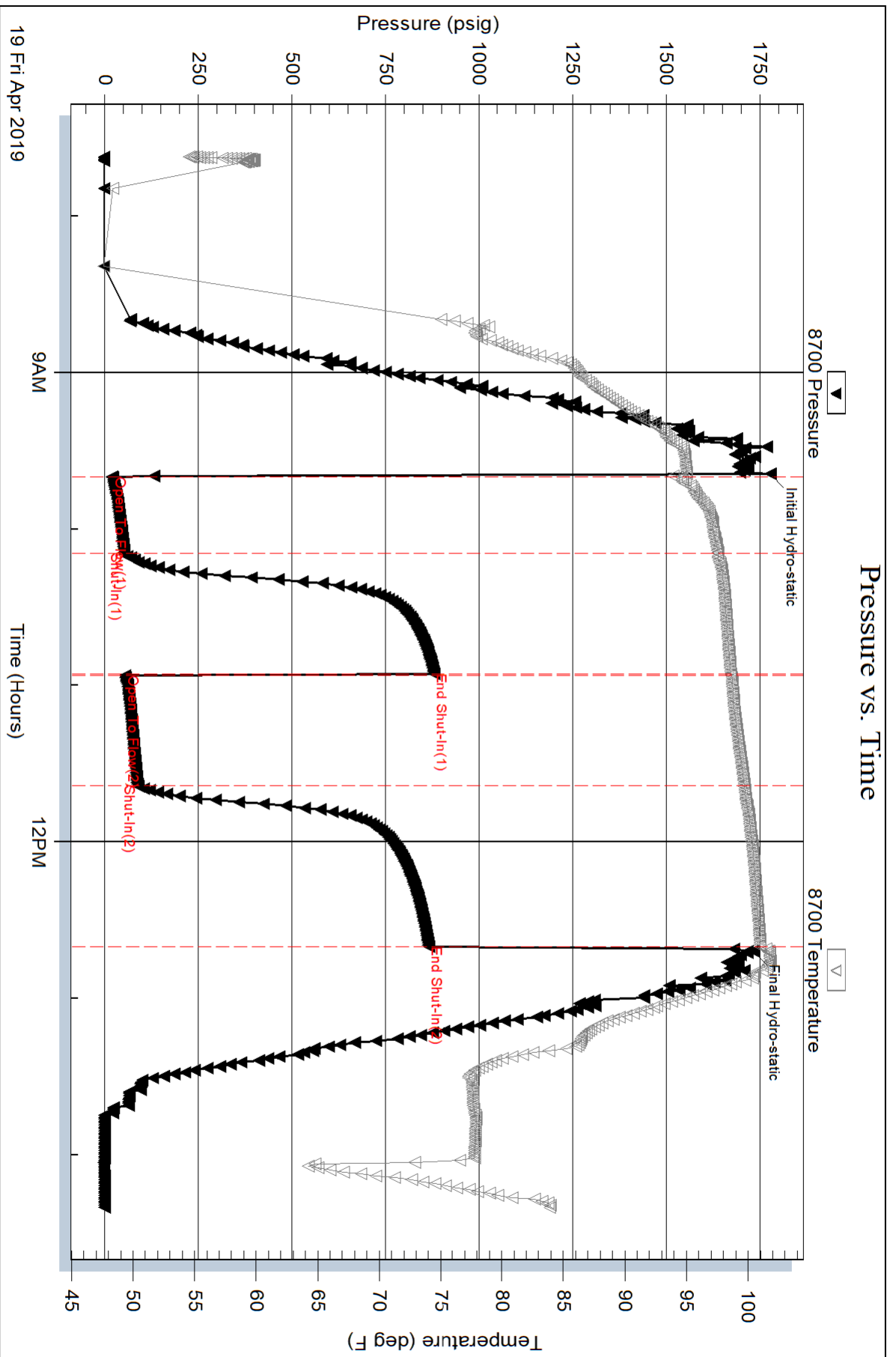
Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 20.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 14800.00 ppm		
Filter Cake: inches		

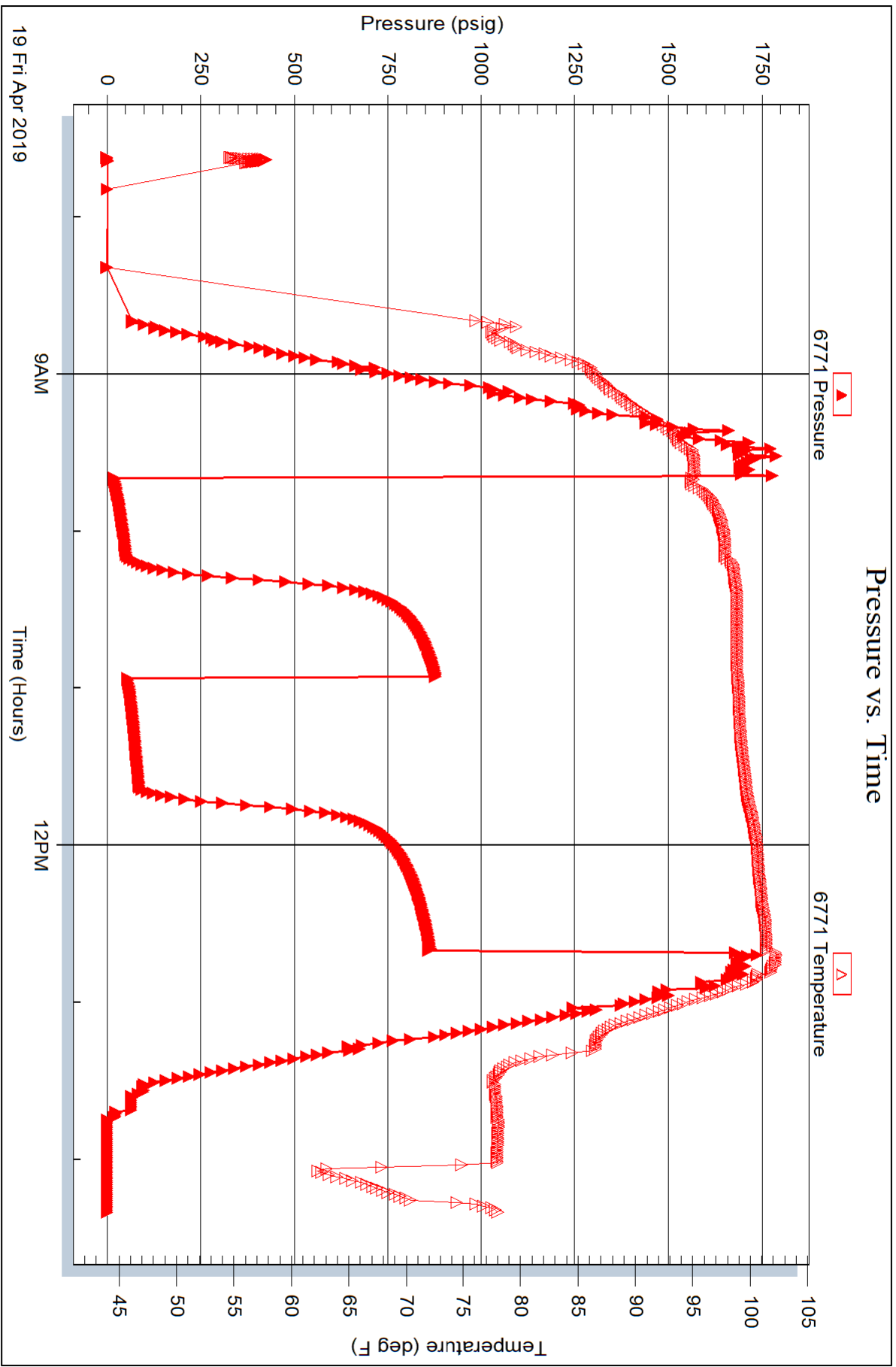
Recovery Information

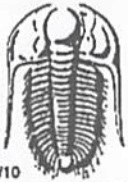
Recovery Table

Length ft	Description	Volume bbl
125.00	GHOCM, 20%G 30%O 50%M	1.772
50.00	CO	0.709
0.00	20' GIP	0.000

Total Length: 175.00 ft Total Volume: 2.481 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65681**

Well Name & No. Morrison Trust #1 Test No. 1 Date 4/18/19
 Company Charger Energy, Inc. Elevation 1922 KB 1912 GL
 Address PO Box 252 Great Bend, KS 67530
 Co. Rep / Geo. Wyatt Urban Rig Southwind B
 Location: Sec. 1 Twp 21 S Rge. 14 W Co. Stafford State KS

Interval Tested 3448-3517 Zone Tested LKC "H-J"
 Anchor Length 69' Drill Pipe Run 3456 Mud Wt. 9.05
 Top Packer Depth 3443 Drill Collars Run --- Vis 48
 Bottom Packer Depth 3448 Wt. Pipe Run --- WL 8.0
 Total Depth 3517 Chlorides 8,200 ppm System LCM 2#
 Blow Description IF - 3/4" blow died back to 1/2"
FSF - No blow
FF - No blow. Flushed tool. Surface blow died 1 min
FSF - No blow

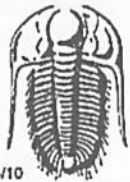
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>M</u>				

Rec Total 15' BHT 102° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>1728</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>0118</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars <u>---</u>	T-Started <u>0132</u>
(C) First Final Flow <u>15</u>	<input type="checkbox"/> Safety Joint <u>---</u>	T-Open <u>0402</u>
(D) Initial Shut-In <u>696</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>0522</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>0700</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>148 RT</u> 24rt	Comments <u>---</u>
(G) Final Shut-In <u>81</u>	<input type="checkbox"/> Sampler <u>---</u>	
(H) Final Hydrostatic <u>1666</u>	<input type="checkbox"/> Straddle <u>---</u>	<input type="checkbox"/> EM Tool <u>---</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Final Shut-In <u>10</u>	<input type="checkbox"/> Day Standby <u>---</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>---</u>	Total <u>1224</u>
	Sub Total <u>1224</u>	MP/DST Disc't <u>---</u>

Approved By _____ Our Representative Bryan Lousdale

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. 65682

Well Name & No. Morrison Trust #1 Test No. 2 Date 4/18/19
 Company Charter Energy, Inc. Elevation 1922 KB 1912 GL
 Address PO Box 2520 / Great Bend, KS 67530
 Co. Rep / Geo. Wyatt Urban Rig Southwind 1
 Location: Sec. 1 Twp 21 S Rge. 14 W Co. Stafford State KS

Interval Tested 3536-3592 Zone Tested Viola + Upper Simpson
 Anchor Length 36' Drill Pipe Run 3520 Mud Wt. 9.1
 Top Packer Depth 3531 Drill Collars Run — Vis 57
 Bottom Packer Depth 3536 Wt. Pipe Run — WL 20.4
 Total Depth 3592 Chlorides 14800 ppm System LCM 1#

Blow Description IF - Slowly built to 0.92"
IST - No Blow
FF - No Blow Flushed tool. 1/2" Blow
Fst - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OSM</u>				

Rec Total 20' BHT 102° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1764 Test 1200 T-On Location 1855
 (B) First Initial Flow 15 Jars — T-Started 1914
 (C) First Final Flow 17 Safety Joint — T-Open 2114
 (D) Initial Shut-In 90 Circ Sub — T-Pulled 2314
 (E) Second Initial Flow 18 Hourly Standby — T-Out 0053
 (F) Second Final Flow 22 Mileage 148 RT 24 Comments —
 (G) Final Shut-In 47 Sampler —
 (H) Final Hydrostatic 1722 Straddle — EM Tool —

Initial Open 30 Shale Packer — Ruined Shale Packer —
 Initial Shut-In 30 Extra Packer — Ruined Packer —
 Final Flow 30 Extra Recorder — Extra Copies —
 Final Shut-In 30 Day Standby — Sub Total 0
 Sub Total 1224 Accessibility — Total 1224
 MP/DST Disc't —

Approved By — Our Representative Brennan Longlak

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. **65683**

Well Name & No. Morrison Trust #1 Test No. 3 Date 4/19/18
 Company Charter Energy, Inc Elevation 1922 KB 1912 GL
 Address PO Box 252 Crest Bend, KS 67530
 Co. Rep / Geo. Wyatt Urban Rig Southwind 1
 Location: Sec. 1 Twp 21 S Rge. 14 W Co. Stafford State KS

Interval Tested 3544-3609 Zone Tested Simpson
 Anchor Length 65' Drill Pipe Run 3551 Mud Wt. 9.1
 Top Packer Depth 3539 Drill Collars Run --- Vis 57
 Bottom Packer Depth 3544 Wt. Pipe Run --- WL 20.4
 Total Depth 3609 Chlorides 14800 ppm System LCM 1st

Blow Description IF - slowly built to 10.74"
ISI - No Blow
FI - BOB 26mins Built to 16.96"
FSI - Built to 0.76"

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>SHOCLM</u>	<u>20%</u>	<u>30%</u>	<u>50%</u>	<u>---</u>
<u>50</u>	<u>CO</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>20' GIP</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
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Rec Total 175' BHT 101° Gravity 33 API RW --- @ --- ° F Chlorides --- ppm

(A) Initial Hydrostatic 1778 Test 1200 T-On Location 0716
 (B) First Initial Flow 20 Jars --- T-Started 0737
 (C) First Final Flow 52 Safety Joint --- T-Open 0940
 (D) Initial Shut-In 879 Circ Sub --- T-Pulled 1240
 (E) Second Initial Flow 54 Hourly Standby --- T-Out 1420
 (F) Second Final Flow 87 Mileage 148 RT 48 Comments Tools loaded 2200
 (G) Final Shut-In 864 Sampler --- 2 nights motel stay
 (H) Final Hydrostatic 1733 Straddle --- EM Tool ---

Initial Open 30 Shale Packer --- Ruined Shale Packer ---
 Initial Shut-In 45 Extra Packer --- Ruined Packer ---
 Final Flow 45 Extra Recorder --- Extra Copies ---
 Final Shut-In 60 Day Standby --- Sub Total 0
 Sub Total 1248 Accessibility --- Total 1248
 Sub Total 1248 MP/DST Disc't ---

Approved By _____ Our Representative Brannon Lonsdale

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