



DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc**

PO Box 252
Great Bend, KS 67536

ATTN: Kurt Talbott

VonFeldt #1

18-15s-16w Ellis,KS

Start Date: 2014.03.21 @ 18:09:19

End Date: 2014.03.22 @ 01:03:04

Job Ticket #: 57505 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.25 @ 13:54:35



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc
PO Box 252
Great Bend, KS 67536
ATTN: Kurt Talbott

18-15s-16w Ellis, KS

VonFeldt #1

Job Ticket: 57505

DST#: 1

Test Start: 2014.03.21 @ 18:09:19

GENERAL INFORMATION:

Formation: **LKC "A-E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:14:34

Time Test Ended: 01:03:04

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson/Phil

Unit No: 59

Interval: 3260.00 ft (KB) To 3340.00 ft (KB) (TVD)

Reference Elevations: 1969.00 ft (KB)

Total Depth: 3340.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8934 Inside

Press@RunDepth: 127.38 psig @ 3264.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.21

End Date:

2014.03.22

Last Calib.:

2014.03.22

Start Time: 18:09:24

End Time:

01:03:03

Time On Btm: 2014.03.21 @ 20:14:04

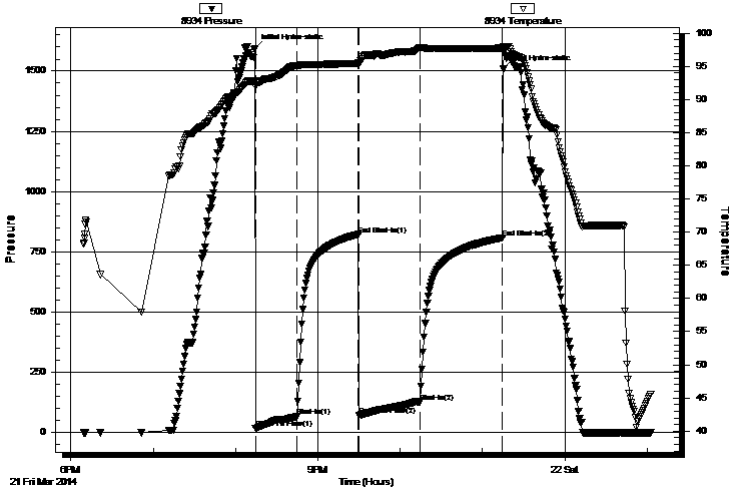
Time Off Btm: 2014.03.21 @ 23:15:19

TEST COMMENT: 30-IF-BOB in 29 mins
45-SI-No Return
45-FF-BOB in 44 mins
60-FSI-No Return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1591.96	92.81	Initial Hydro-static
1	16.11	91.94	Open To Flow (1)
31	65.55	95.05	Shut-In(1)
76	821.98	95.46	End Shut-In(1)
76	70.26	95.28	Open To Flow (2)
121	127.38	97.87	Shut-In(2)
181	808.17	97.73	End Shut-In(2)
182	1508.34	97.89	Final Hydro-static

Pressure vs. Time



Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW 10% m, 90% w	0.87
175.00	M 100% m	2.45

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
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Charter Energy, Inc
PO Box 252
Great Bend, KS 67536
ATTN: Kurt Talbott

18-15s-16w Ellis, KS

VonFeldt #1

Job Ticket: 57505

DST#: 1

Test Start: 2014.03.21 @ 18:09:19

GENERAL INFORMATION:

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Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:14:34

Time Test Ended: 01:03:04

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson/Phil

Unit No: 59

Interval: 3260.00 ft (KB) To 3340.00 ft (KB) (TVD)

Total Depth: 3340.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1969.00 ft (KB)

1963.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8736 Outside

Press@RunDepth: psig @ 3264.00 ft (KB)

Start Date: 2014.03.21

End Date:

2014.03.22

Start Time: 18:09:05

End Time:

01:02:44

Capacity: 8000.00 psig

Last Calib.:

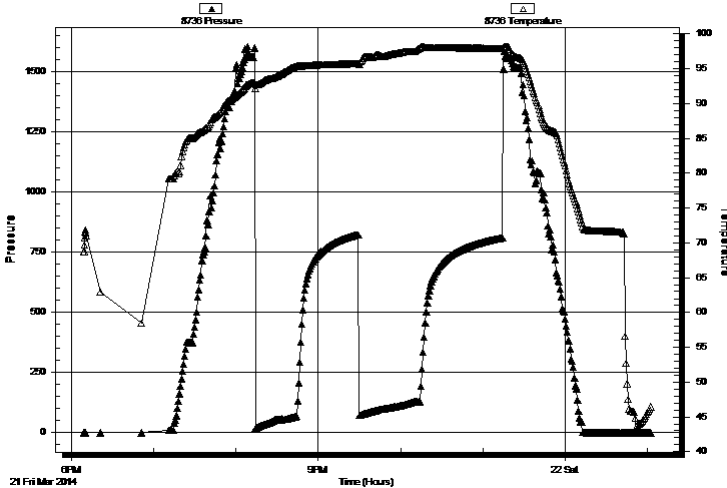
2014.03.22

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-BOB in 29 mins
45-SI-No Return
45-FF-BOB in 44 mins
60-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW 10% m, 90% w	0.87
175.00	M 100% m	2.45

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc

18-15s-16w Ellis,KS

PO Box 252
Great Bend, KS 67536

VonFeldt #1

Job Ticket: 57505

DST#: 1

ATTN: Kurt Talbott

Test Start: 2014.03.21 @ 18:09:19

Tool Information

Drill Pipe:	Length:	3264.00 ft	Diameter:	3.80 inches	Volume:	45.79 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 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:	60000.00 lb
					Total Volume:	45.79 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight: Initial	55000.00 lb
Depth to Top Packer:		3260.00 ft					Final	58000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		80.00 ft						
Tool Length:		101.00 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			3240.00	
Shut In Tool	5.00			3245.00	
Hydraulic tool	5.00			3250.00	
Packer	5.00			3255.00	21.00 Bottom Of Top Packer
Packer	5.00			3260.00	
Stubb	1.00			3261.00	
Perforations	2.00			3263.00	
Change Over Sub	1.00			3264.00	
Recorder	0.00	8934	Inside	3264.00	
Recorder	0.00	8736	Outside	3264.00	
Drill Pipe	62.00			3326.00	
Change Over Sub	1.00			3327.00	
Perforations	10.00			3337.00	
Bullnose	3.00			3340.00	80.00 Bottom Packers & Anchor

Total Tool Length: 101.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc

18-15s-16w Ellis,KS

PO Box 252
Great Bend, KS 67536

VonFeldt #1

Job Ticket: 57505

DST#: 1

ATTN: Kurt Talbott

Test Start: 2014.03.21 @ 18:09:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 7.18 in³

Resistivity: ohm.m

Salinity: 5200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MW 10%m, 90%w	0.870
175.00	M 100%m	2.455

Total Length: 237.00 ft

Total Volume: 3.325 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8934

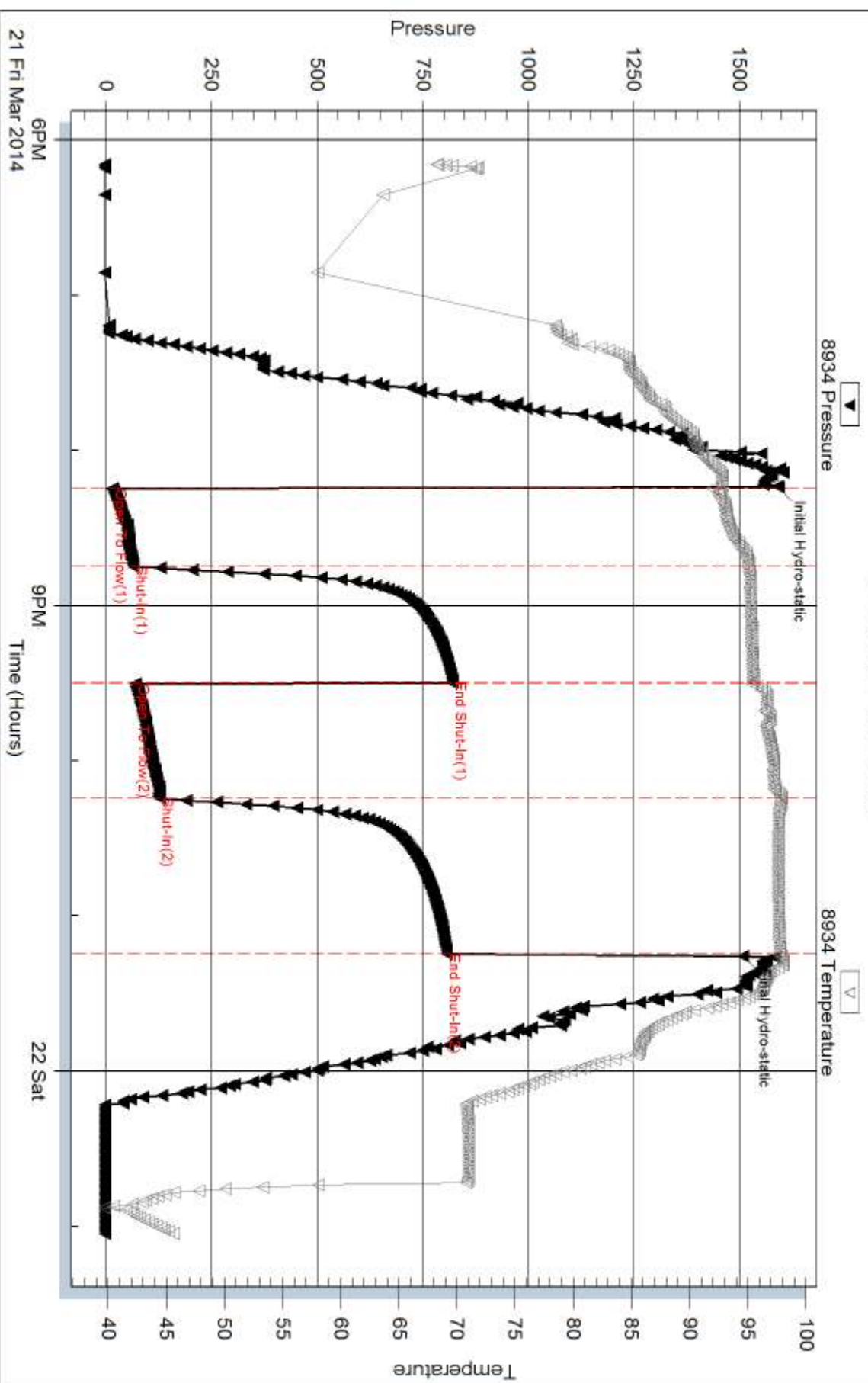
Inside

Charter Energy, Inc

VonFeldt #1

DST Test Number: 1

Pressure vs. Time

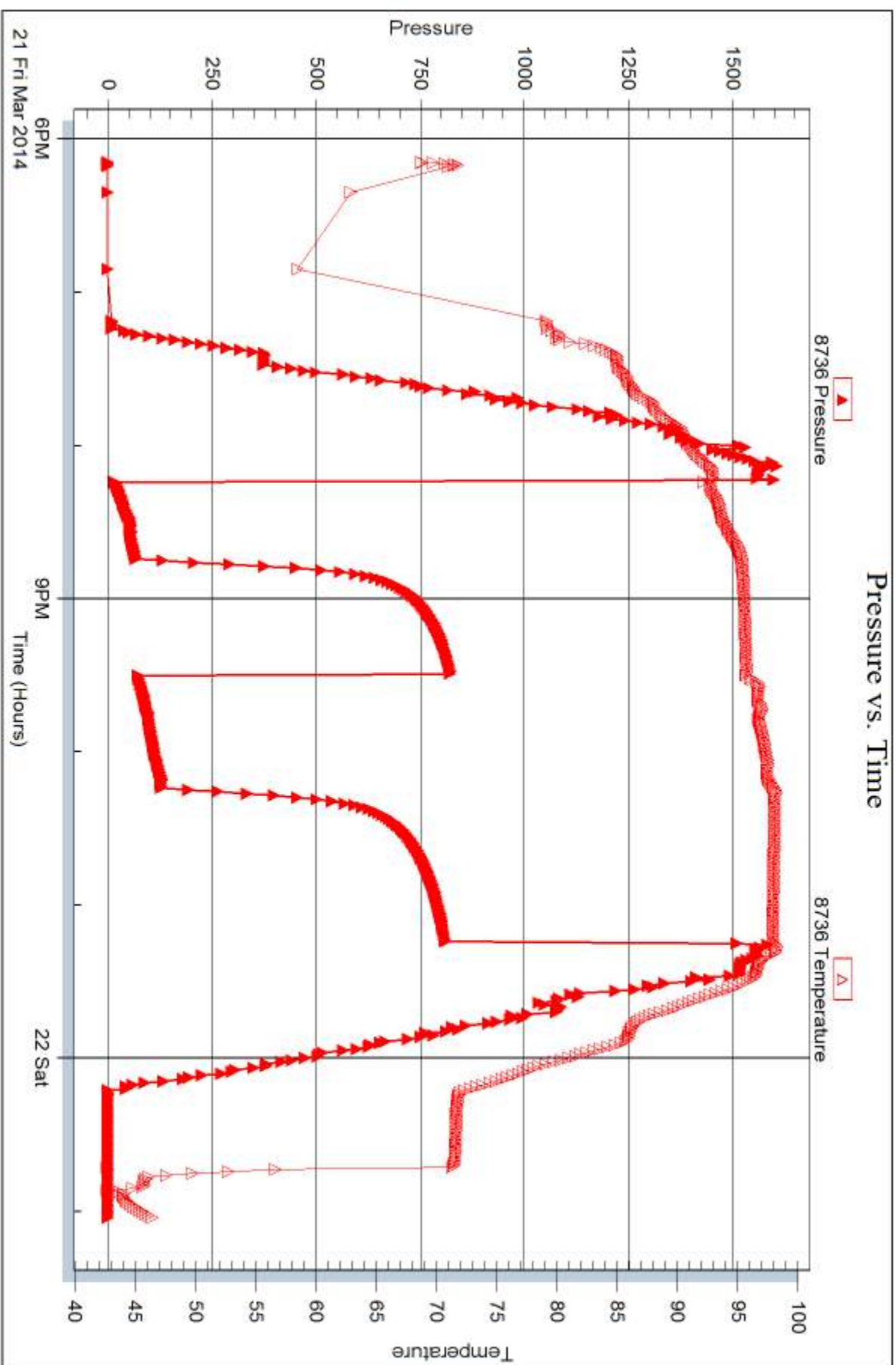


Serial #: 8736

Outside Charter Energy, Inc

VonFeldt #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc**

PO Box 252
Great Bend, KS 67536

ATTN: Kurt Talbott

VonFeldt #1

18-15s-16w Ellis,KS

Start Date: 2014.03.22 @ 14:59:00

End Date: 2014.03.22 @ 20:12:45

Job Ticket #: 57506 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.25 @ 13:49:13



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc
PO Box 252
Great Bend, KS 67536
ATTN: Kurt Talbott

18-15s-16w Ellis, KS

VonFeldt #1

Job Ticket: 57506

DST#: 2

Test Start: 2014.03.22 @ 14:59:00

GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:22:00

Time Test Ended: 20:12:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson/Phil

Unit No: 59

Interval: 3400.00 ft (KB) To 3490.00 ft (KB) (TVD)

Reference Elevations: 1969.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8934 Inside

Press@RunDepth: 15.24 psig @ 3404.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.22

End Date:

2014.03.22

Last Calib.:

2014.03.22

Start Time: 14:59:05

End Time:

20:12:44

Time On Btm:

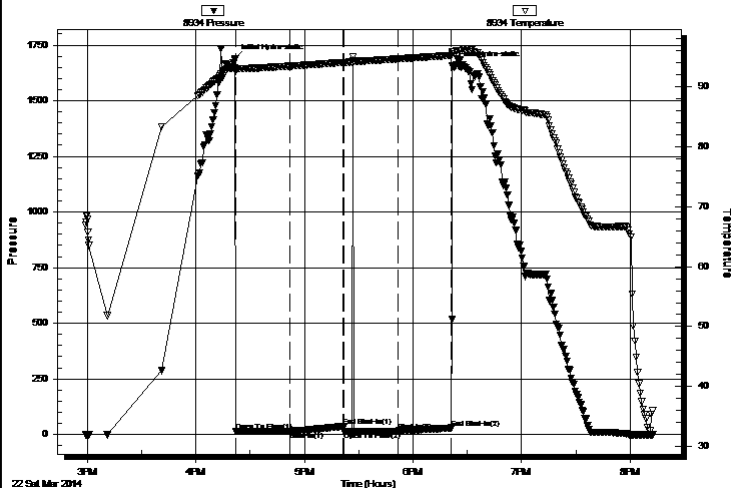
2014.03.22 @ 16:21:45

Time Off Btm:

2014.03.22 @ 18:21:45

TEST COMMENT: 30-IF-Weak Surface Blow
30-ISI-No Return
30-FF-No Blow, Flushed Tool, No Blow
30-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.27	93.28	Initial Hydro-static
1	13.35	92.58	Open To Flow (1)
30	13.75	93.43	Shut-In(1)
60	37.00	94.04	End Shut-In(1)
60	14.38	94.04	Open To Flow (2)
90	15.24	94.64	Shut-In(2)
120	29.35	95.21	End Shut-In(2)
120	1656.46	95.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100% m	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
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DRILL STEM TEST REPORT

Charter Energy, Inc
PO Box 252
Great Bend, KS 67536
ATTN: Kurt Talbott

18-15s-16w Ellis, KS

VonFeldt #1

Job Ticket: 57506

DST#: 2

Test Start: 2014.03.22 @ 14:59:00

GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:22:00

Time Test Ended: 20:12:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson/Phil

Unit No: 59

Interval: 3400.00 ft (KB) To 3490.00 ft (KB) (TVD)

Total Depth: 3490.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1969.00 ft (KB)

1963.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8736 Outside

Press@RunDepth: psig @ 3404.00 ft (KB)

Start Date: 2014.03.22

End Date:

2014.03.22

Start Time: 14:59:05

End Time:

20:12:44

Capacity: 8000.00 psig

Last Calib.:

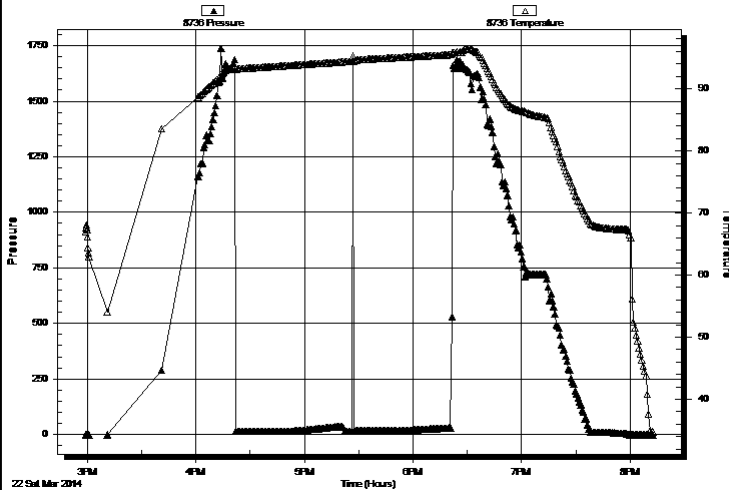
2014.03.22

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Weak Surface Blow
30-ISI-No Return
30-FF-No Blow, Flushed Tool, No Blow
30-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%m	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc

18-15s-16w Ellis,KS

PO Box 252
Great Bend, KS 67536

VonFeldt #1

Job Ticket: 57506

DST#: 2

ATTN: Kurt Talbott

Test Start: 2014.03.22 @ 14:59:00

Tool Information

Drill Pipe:	Length:	3388.00 ft	Diameter:	3.80 inches	Volume:	47.52 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 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:	86000.00 lb
					Total Volume:	47.52 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		9.00 ft					String Weight: Initial	59000.00 lb
Depth to Top Packer:		3400.00 ft					Final	59000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		90.00 ft						
Tool Length:		111.00 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			3380.00	
Shut In Tool	5.00			3385.00	
Hydraulic tool	5.00			3390.00	
Packer	5.00			3395.00	21.00 Bottom Of Top Packer
Packer	5.00			3400.00	
Stubb	1.00			3401.00	
Perforations	2.00			3403.00	
Change Over Sub	1.00			3404.00	
Recorder	0.00	8934	Inside	3404.00	
Recorder	0.00	8736	Outside	3404.00	
Drill Pipe	62.00			3466.00	
Change Over Sub	1.00			3467.00	
Perforations	20.00			3487.00	
Bullnose	3.00			3490.00	90.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc

18-15s-16w Ellis,KS

PO Box 252
Great Bend, KS 67536

VonFeldt #1

Job Ticket: 57506

DST#: 2

ATTN: Kurt Talbott

Test Start: 2014.03.22 @ 14:59:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 6500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8934

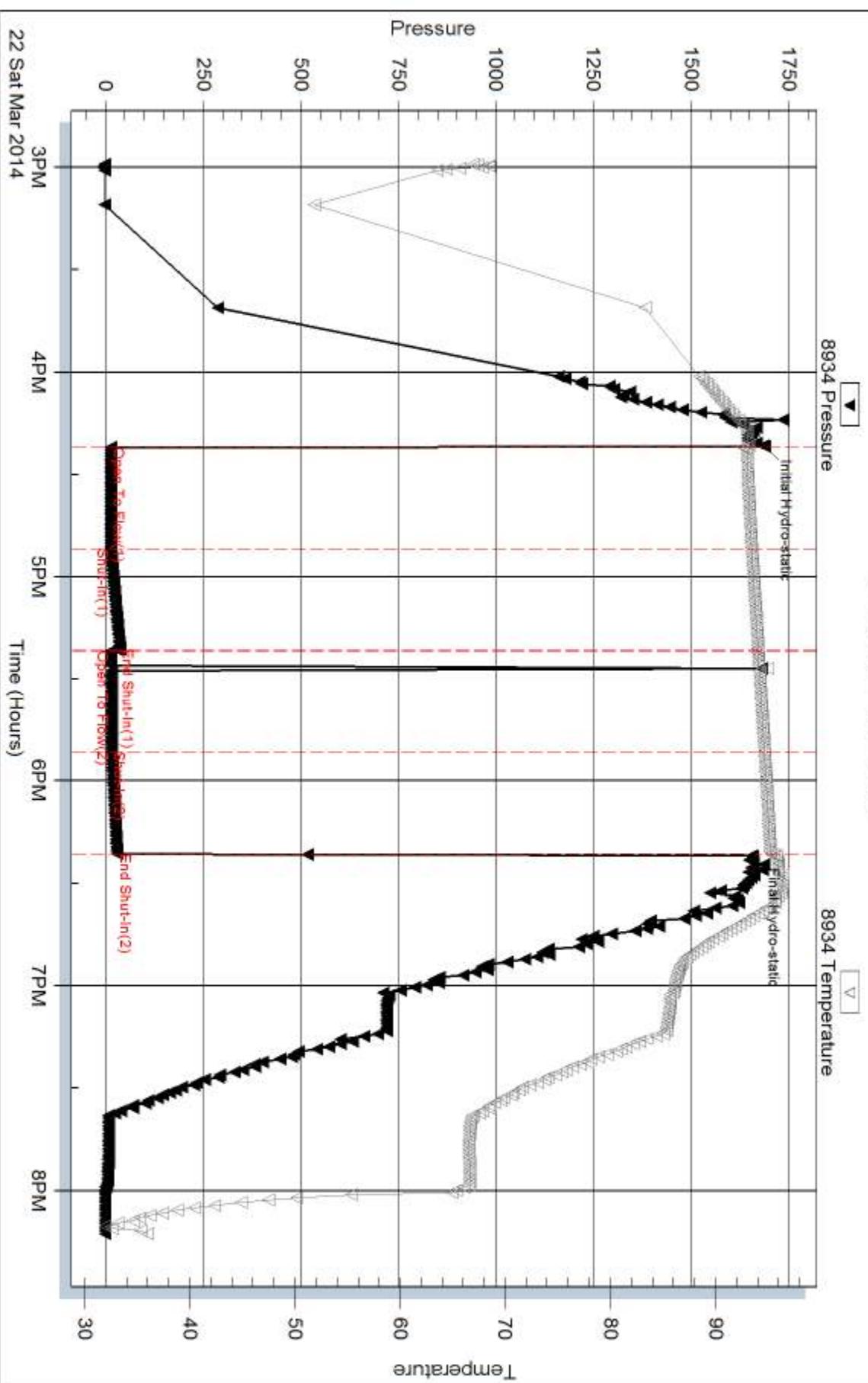
Inside

Charter Energy, Inc

VonFeldt #1

DST Test Number: 2

Pressure vs. Time

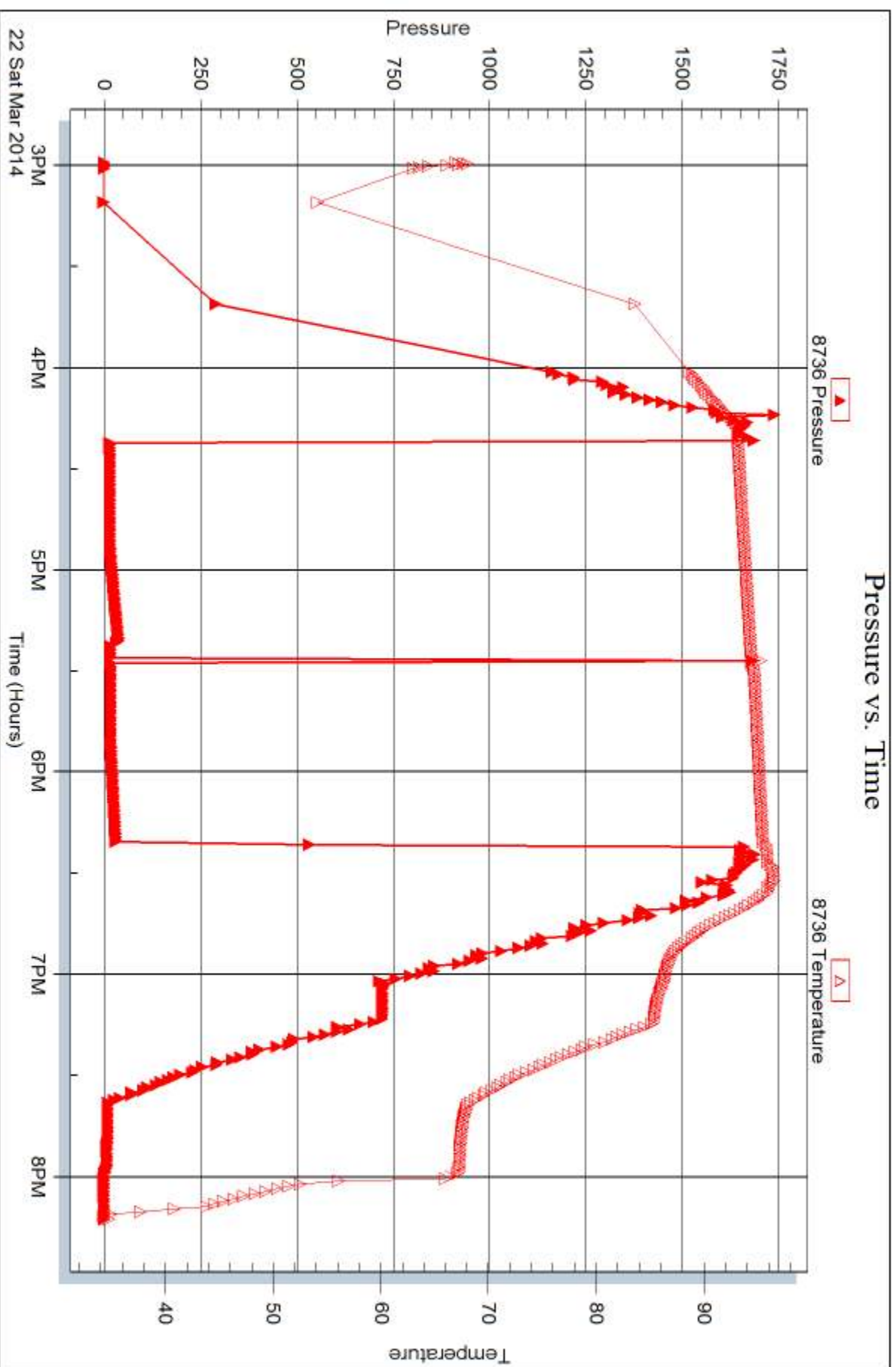


Serial #: 8736

Outside Charter Energy, Inc

VonFeldt #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc**

PO Box 252
Great Bend, KS 67536

ATTN: Kurt Talbott

VonFeldt #1

18-15s-16w Ellis,KS

Start Date: 2014.03.23 @ 11:08:00

End Date: 2014.03.23 @ 16:43:30

Job Ticket #: 57507 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.25 @ 13:48:44



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc
PO Box 252
Great Bend, KS 67536
ATTN: Kurt Talbott

18-15s-16w Ellis, KS

VonFeldt #1

Job Ticket: 57507

DST#: 3

Test Start: 2014.03.23 @ 11:08:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:52:00

Time Test Ended: 16:43:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson/Phil

Unit No: 59

Interval: 3476.00 ft (KB) To 3560.00 ft (KB) (TVD)

Total Depth: 3560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1969.00 ft (KB)

1963.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8934 Inside

Press@RunDepth: 84.98 psig @ 3480.00 ft (KB)

Start Date: 2014.03.23

End Date:

2014.03.23

Start Time: 11:08:05

End Time:

16:43:29

Capacity: 8000.00 psig

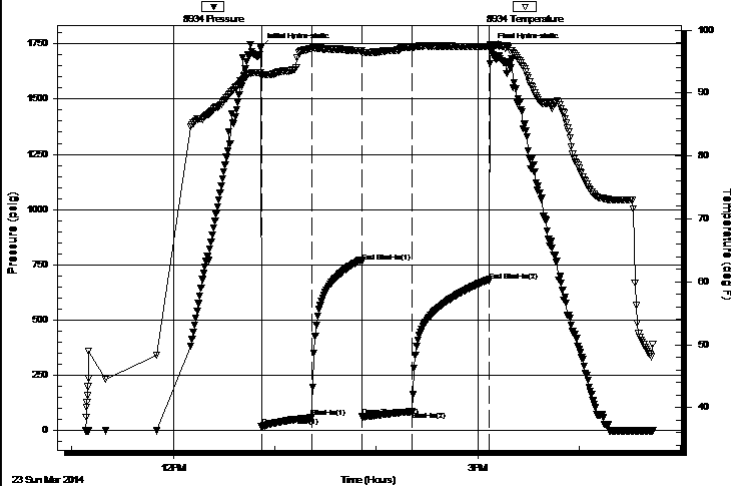
Last Calib.: 2014.03.23

Time On Btm: 2014.03.23 @ 12:51:45

Time Off Btm: 2014.03.23 @ 15:07:30

TEST COMMENT: 30-IF-Built to 7"
30-ISI-No Return
30-FF-Built to 5"
45-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.84	93.28	Initial Hydro-static
1	16.93	92.57	Open To Flow (1)
30	57.90	97.14	Shut-In(1)
60	764.23	96.77	End Shut-In(1)
60	62.51	96.46	Open To Flow (2)
90	84.98	97.26	Shut-In(2)
135	677.67	97.43	End Shut-In(2)
136	1731.93	97.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	WCM 40%W 60%M	1.75
25.00	Mud	0.35

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc

18-15s-16w Ellis,KS

PO Box 252
Great Bend, KS 67536

VonFeldt #1

Job Ticket: 57507

DST#: 3

ATTN: Kurt Talbott

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GENERAL INFORMATION:

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Time Test Ended: 16:43:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson/Phil

Unit No: 59

Interval: 3476.00 ft (KB) To 3560.00 ft (KB) (TVD)

Total Depth: 3560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1969.00 ft (KB)

1963.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8736 Outside

Press@RunDepth: psig @ 3480.00 ft (KB)

Start Date: 2014.03.23

End Date:

2014.03.23

Start Time: 11:08:05

End Time:

16:33:58

Capacity: 8000.00 psig

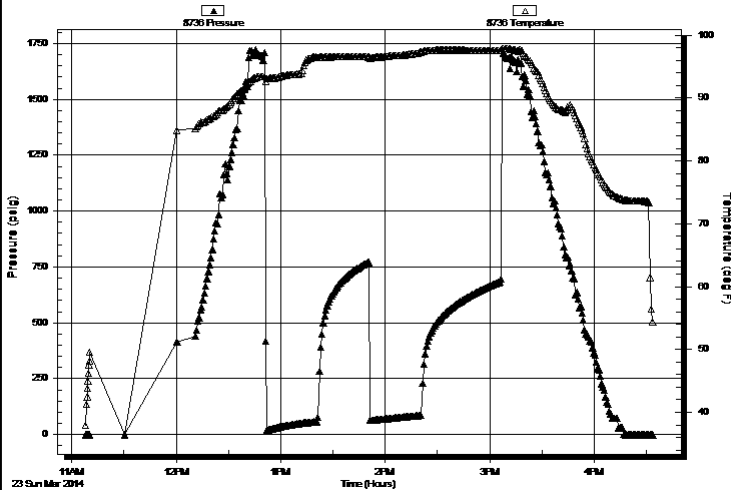
Last Calib.: 2014.03.23

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Built to 7"
30-ISI-No Return
30-FF-Built to 5"
45-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

Recovery

Length (ft)	Description	Volume (bbl)
125.00	WCM 40%W 60%M	1.75
25.00	Mud	0.35

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc

18-15s-16w Ellis,KS

PO Box 252
Great Bend, KS 67536

VonFeldt #1

Job Ticket: 57507

DST#: 3

ATTN: Kurt Talbott

Test Start: 2014.03.23 @ 11:08:00

Tool Information

Drill Pipe:	Length:	3482.00 ft	Diameter:	3.80 inches	Volume:	48.84 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 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:	61000.00 lb
					Total Volume:	48.84 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		27.00 ft					String Weight: Initial	59000.00 lb
Depth to Top Packer:		3476.00 ft					Final	59000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		84.00 ft						
Tool Length:		105.00 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			3456.00	
Shut In Tool	5.00			3461.00	
Hydraulic tool	5.00			3466.00	
Packer	5.00			3471.00	21.00 Bottom Of Top Packer
Packer	5.00			3476.00	
Stubb	1.00			3477.00	
Perforations	2.00			3479.00	
Change Over Sub	1.00			3480.00	
Recorder	0.00	8934	Inside	3480.00	
Recorder	0.00	8736	Outside	3480.00	
Drill Pipe	62.00			3542.00	
Change Over Sub	1.00			3543.00	
Perforations	14.00			3557.00	
Bullnose	3.00			3560.00	84.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc

18-15s-16w Ellis,KS

PO Box 252
Great Bend, KS 67536

VonFeldt #1

Job Ticket: 57507

DST#: 3

ATTN: Kurt Talbott

Test Start: 2014.03.23 @ 11:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.38 in³

Resistivity: ohm.m

Salinity: 6500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

25000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	WCM 40%W 60%M	1.753
25.00	Mud	0.351

Total Length: 150.00 ft

Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8934

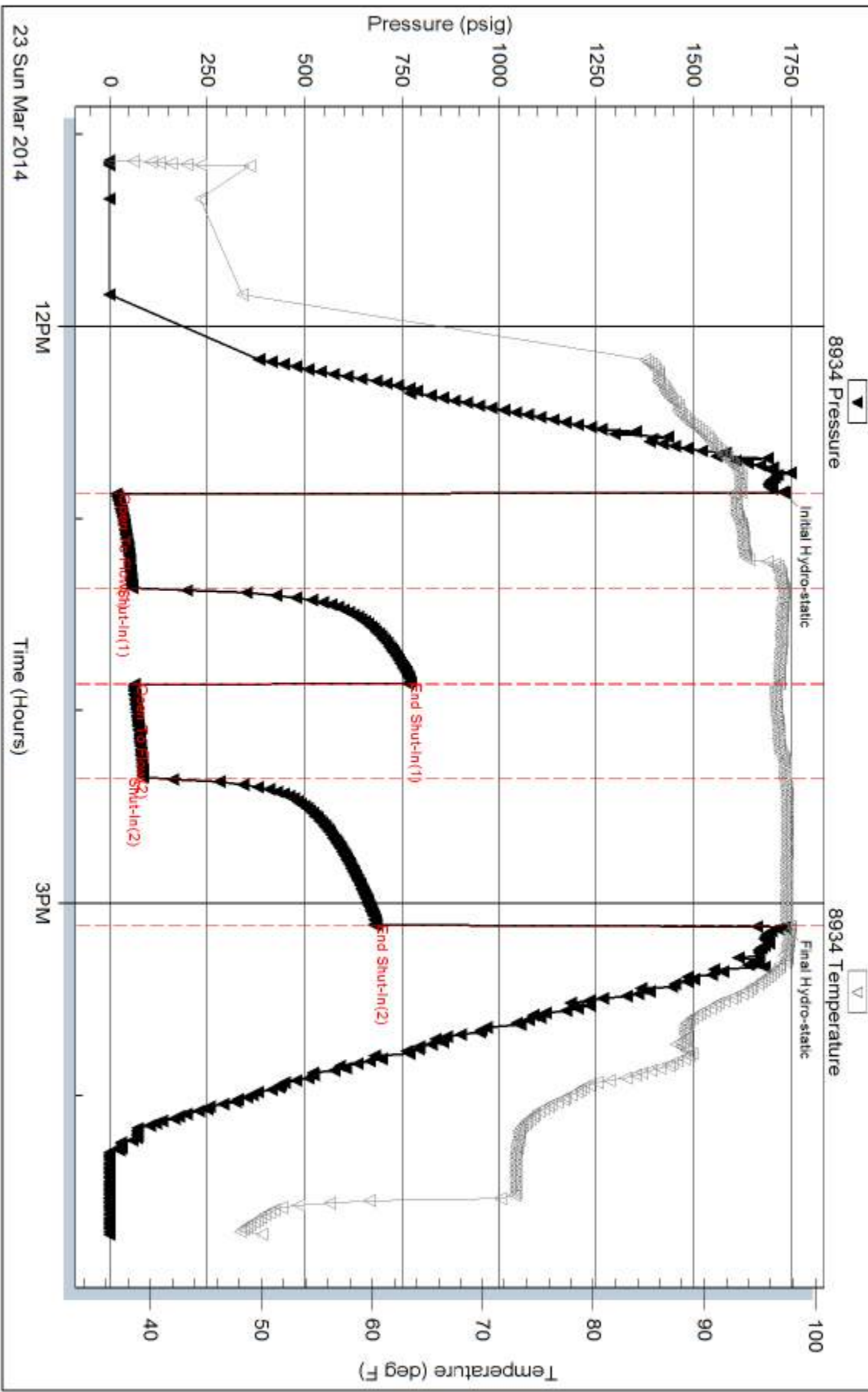
Inside

Charter Energy, Inc

VonFeldt #1

DST Test Number: 3

Pressure vs. Time

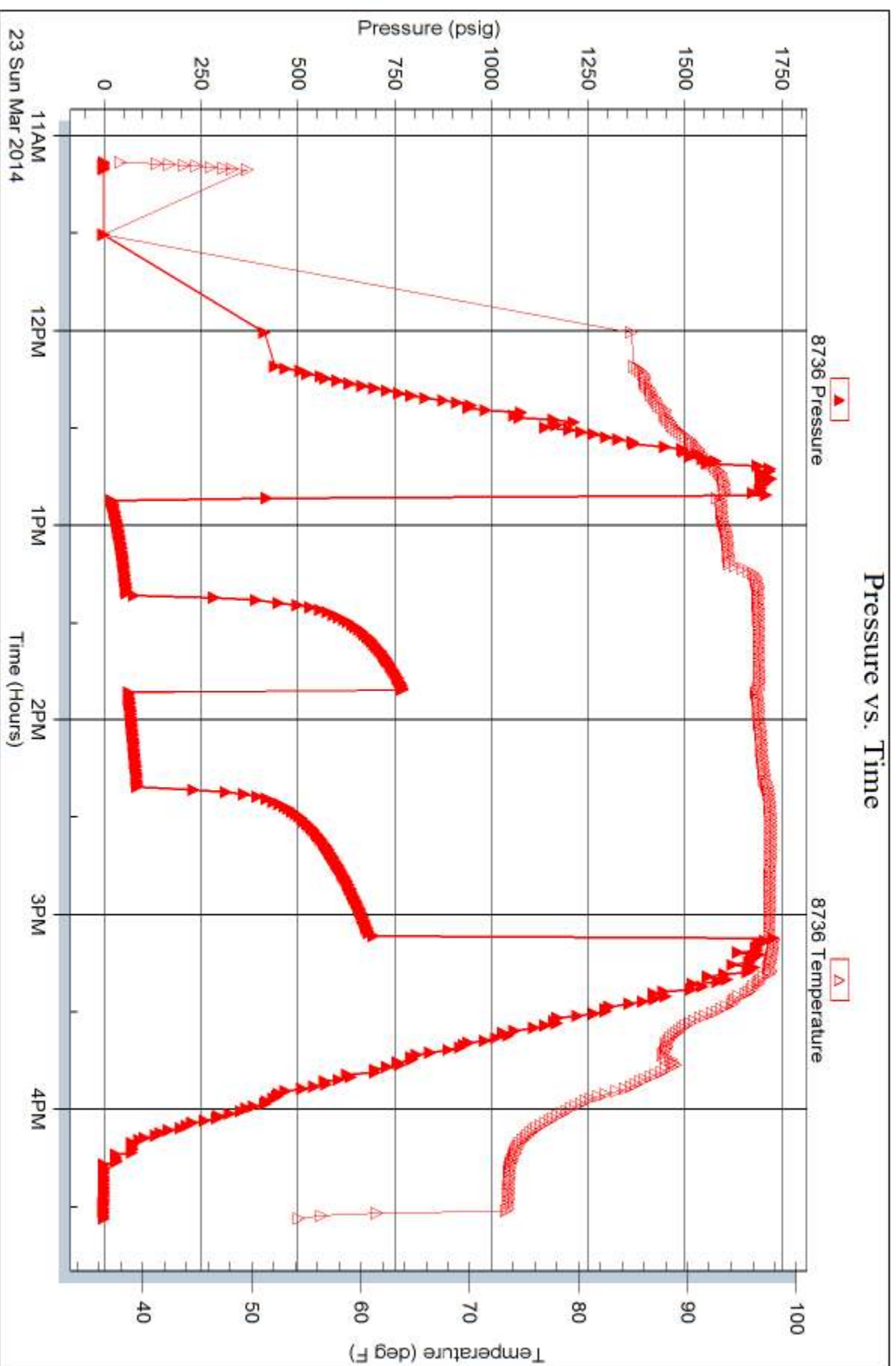


Serial #: 8736

Outside Charter Energy, Inc

VonFeldt #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57505

Well Name & No. Vonfeldt #1 Test No. 1 Date 3-21-14
 Company Charter Energy, Inc Elevation 1969 KB 1963 GL
 Address P.O. Box 252 Great Bend, KS 67536
 Co. Rep / Geo. Kurt Talbott Rig Royal #1
 Location: Sec. 18 Twp. 15S Rge. 16 W Co. Ellis State KS

Interval Tested 3260-3340 Zone Tested CKL "A-E"
 Anchor Length 80' Drill Pipe Run ~~3326~~ 3264 Mud Wt. 9.1
 Top Packer Depth 3255 Drill Collars Run 0 Vis 47
 Bottom Packer Depth 3260 Wt. Pipe Run 0 WL 7.2
 Total Depth 3340 Chlorides 5,200 ppm System LCM Tr

Blow Description IF - BOB in 29 min.
ISI - No Return
FF - BOB in 44 min.
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>MW</u>			<u>90</u>	<u>10</u>
<u>175</u>	<u>M</u>			<u>100</u>	

Rec Total 237 BHT 98 Gravity — API RW 175 @ 43 °F Chlorides 80,000 ppm
 (A) Initial Hydrostatic 1592 ☒ Test 1150 T-On Location 16.53
 (B) First Initial Flow 16 ☐ Jars — T-Started 18:09
 (C) First Final Flow 66 ☐ Safety Joint — T-Open 20:15
 (D) Initial Shut-In 822 ☐ Circ Sub — T-Pulled 23:15
 (E) Second Initial Flow 70 ☐ Hourly Standby — T-Out 01:03
 (F) Second Final Flow 127 ☒ Mileage 30 RT 46.50 Comments —
 (G) Final Shut-In 808 ☐ Sampler —
 (H) Final Hydrostatic 1508 ☐ Straddle — ☐ Ruined Shale Packer —
☐ Shale Packer — ☐ Ruined Packer —
☐ Extra Packer — ☐ Extra Copies —
☐ Extra Recorder — Sub Total 0
☐ Day Standby — Total 1196.50
☐ Accessibility — MP/DST Disc't —

Initial Open 30
 Initial Shut-In 49
 Final Flow 45
 Final Shut-In 60

Approved By —

Our Representative —

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57506

Well Name & No. Vandeldt #1 Test No. 2 Date 3-22-14
 Company Charter Energy, Inc Elevation 1969 KB 1963 GL
 Address P.O. Box 252 Great Bend, KS 67536
 Co. Rep / Geo. Kurt Talbott Rig Royal #1
 Location: Sec. 18 Twp. 15 S Rge. 16 W Co. Ellis State KS

Interval Tested 3400-3490 Zone Tested LKL "H-K"
 Anchor Length 90 Drill Pipe Run ~~3419~~ 3388 Mud Wt. 9.3
 Top Packer Depth 3395 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 3400 Wt. Pipe Run 0 WL 6.4
 Total Depth 3490 Chlorides 6,500 ppm System LCM 0

Blow Description IF- Weak Surface Blow
ISI- No Return
FF No blow, flushed tool, No blow
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>M</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 95 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1689</u>	☒ Test <u>1150</u>	T-On Location <u>14:47</u>
(B) First Initial Flow <u>13</u>	☐ Jars	T-Started <u>14:59</u>
(C) First Final Flow <u>13</u>	☐ Safety Joint	T-Open <u>16:22</u>
(D) Initial Shut-In <u>37</u>	☐ Circ Sub	T-Pulled <u>18:22</u>
(E) Second Initial Flow <u>14</u>	☐ Hourly Standby	T-Out <u>20:13</u>
(F) Second Final Flow <u>15</u>	☒ Mileage <u>30 RT</u> 46.50	Comments
(G) Final Shut-In <u>29</u>	☐ Sampler	
(H) Final Hydrostatic <u>1656</u>	☐ Straddle	

Initial Open <u>30</u>	☐ Shale Packer	☐ Ruined Shale Packer
Initial Shut-In <u>30</u>	☐ Extra Packer	☐ Ruined Packer
Final Flow <u>30</u>	☐ Extra Recorder	☐ Extra Copies
Final Shut-In <u>30</u>	☐ Day Standby	Sub Total <u>0</u>
	☐ Accessibility	Total <u>1196.50</u>
	Sub Total <u>1196.50</u>	MP/DST Disc't

Approved By _____

Our Representative Ben Dain / Phil Hoge

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. 57507

Well Name & No. Vonfeldt #1 Test No. 3 Date 3-23-14
 Company Charter Energy, Inc Elevation 1969 KB 1963 GL
 Address P.O. Box 252 Great Bend, KS 67536
 Co. Rep / Geo. Kurt Talbott Rig Royal #1
 Location: Sec. 18 Twp. 15S Rge. 16W Co. Ellis State KS

Interval Tested 3476 - 3560 Zone Tested Arbuckle
 Anchor Length 84 Drill Pipe Run 3482 Mud Wt. 9.3
 Top Packer Depth 3471 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 3476 Wt. Pipe Run 0 WL 6.4
 Total Depth 3560 Chlorides 6,500 ppm System LCM 0
 Blow Description IF - Built to 7"
ISI - No Return
FF - Built to 5"
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>WCM</u>		<u>40</u>	<u>60</u>	
<u>25</u>	<u>M</u>			<u>100</u>	

Rec Total 150 BHT _____ Gravity _____ API RW, 45 @ 53 °F Chlorides 25,000 ppm
 (A) Initial Hydrostatic 1732 ☒ Test 1150 T-On Location 10:56
 (B) First Initial Flow 17 ☐ Jars _____ T-Started 11:08
 (C) First Final Flow 58 ☐ Safety Joint _____ T-Open 12:52
 (D) Initial Shut-In 764 ☐ Circ Sub _____ T-Pulled 15:07
 (E) Second Initial Flow 63 ☐ Hourly Standby _____ T-Out 16:35
 (F) Second Final Flow 85 ☒ Mileage 30 RT 46.50 Comments _____
 (G) Final Shut-In 678 ☐ Sampler _____
 (H) Final Hydrostatic 1732 ☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 45
 Sub Total 1196.50
 Total 1196.50
 MP/DST Disc't _____

Approved By _____

Our Representative [Signature]

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