Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1201445

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 9090
Name: Charter Energy, Inc.
Address 1: PO BOX 252
Address 2:
City: GREAT BEND State: KS Zip: 67530 + 0252
Contact Person: Steve Baize
Phone: (620) 793-9090
CONTRACTOR: License # 33905
Name: Royal Drilling Inc
Wellsite Geologist: Kurt Talbott
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☑ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

03/17/2014	03/23/2014	03/23/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26675-00-00
Spot Description:
W2 SW SE NW Sec. 18 Twp. 15 S. R. 16 ☐ East ☑ West
2970 Feet from ☐ North / ☑ South Line of Section
1478 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Ellis
Lease Name: VonFeldt Well #: 1
Field Name:
Producing Formation: n/a
Elevation: Ground: 1963 Kelly Bushing: 1969
Total Vertical Depth: 3625 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1096 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 30000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Deanna Garrison **Date:** 04/24/2014

[redacted] 1201445

Operator Name: Charter Energy, Inc. Lease Name: VonFeldt Well #: 1

Sec. 18 Twp. 15 S. R. 16 ☐ East ☑ West County: Ellis

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

CNL/CDL DIL, Micro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner	3202	-1233
Lansing	3252	-1283
Arbuckle	3546	-1577

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	1096	common	450	3%cc 2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041
Home Office P.O. Box 32 Russell, KS 67665

No. 7088

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-17-14	18	15	16	Ellis	KS		11:30

Location: Victoria S Northfolk Rd ½ S E into

Lease: Vonfeldt	Well No. #1	Owner
Contractor: Royal #1		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job: Surface		
Hole Size: 12 ¼	T.D. 1096	Charge To: Charter Energy
Csg. 8 5/8	Depth	Street
Tbg. Size	Depth	City / State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. 40.85	Shoe Joint 40.85	Cement Amount Ordered: 450 com 3% cc 2% Gel
Meas Line	Displace 70 bbl	

EQUIPMENT

	No.		
Pumptrk 5	No.	Cementer / Helper	Lonnie W
Bulktrk 12	No.	Driver / Driver	Clayton
Bulktrk PU	No.	Driver / Driver	Brett

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

JOB SERVICES & REMARKS

Remarks:
Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar

Cement
Circulated

FLOAT EQUIPMENT (8 5/8)

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Baffle Plate 1	
Rubber Plug 1	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature: Doug Budig

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 7134
Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-24-14	18	15	16	Ellis	KS		10:15AM

Location Victoria, S to Norfork Rd, 1/4S, En2

Lease Vonfeldt Well No. 1

Contractor Royal #1

Type Job Plug

Hole Size 7 7/8 T.D.

Csg. Depth

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint

Meas Line Displace

EQUIPMENT

Pumptrk 5 No. Cementer / Helper Lonnie W.

Bulktrk 14 No. Driver / Driver Ryan

Bulktrk P4 No. Driver / Driver Travis

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

50sx at 3560

50 sx at 1145

80sx at 480

10 sx at 40

30sx Rat

15 sx Mouse

X Signature Doug Burris

Owner

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Charter Energy Inc.

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 235sx 60/40 4% gel 1/4# Flo

Common	141
Poz. Mix	94
Gel.	8
Calcium	
Hulls	
Salt	
Flowseal	59#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	243
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	1 wood Plug
Pumptrk Charge	Plug
Mileage	14
Tax	
Discount	
Total Charge	

TRILOBITE TESTING, INC.

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

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

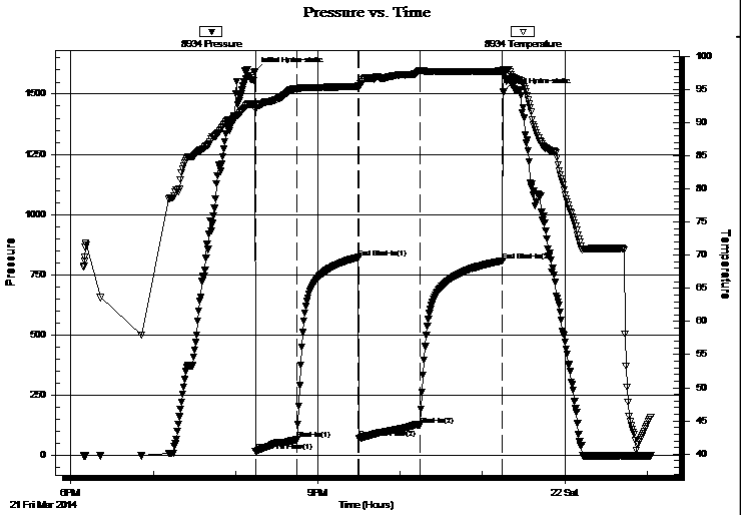
Interval: 3260.00 ft (KB) To 3340.00 ft (KB) (TVD)
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1969.00 ft (KB)
1963.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8934 **Inside**
Press@RunDepth: 127.38 psig @ 3264.00 ft (KB)
Start Date: 2014.03.21 End Date: 2014.03.22
Start Time: 18:09:24 End Time: 01:03:03

Capacity: 8000.00 psig
Last Calib.: 2014.03.22
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

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)

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

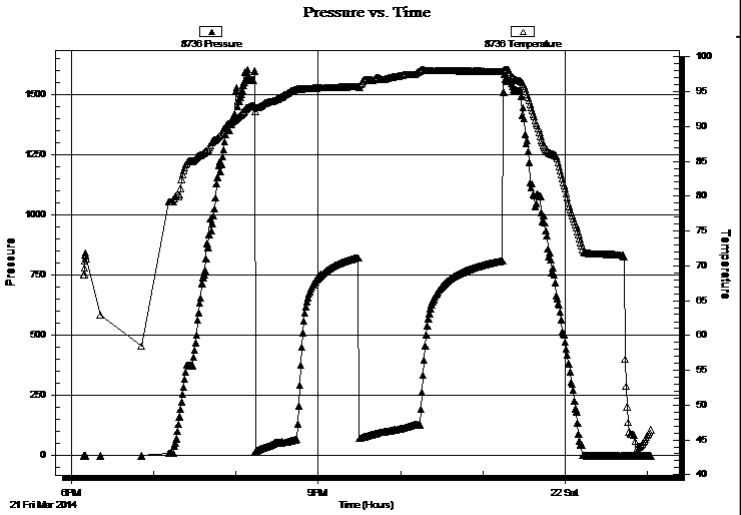
Interval: 3260.00 ft (KB) To 3340.00 ft (KB) (TVD)
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

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 SUMMARY

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

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)

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

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 betw een 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	
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**					

DRILL STEM TEST REPORT

FLUID SUMMARY

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

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:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5200.00 ppm				
Filter Cake:	inches				

Recovery Information

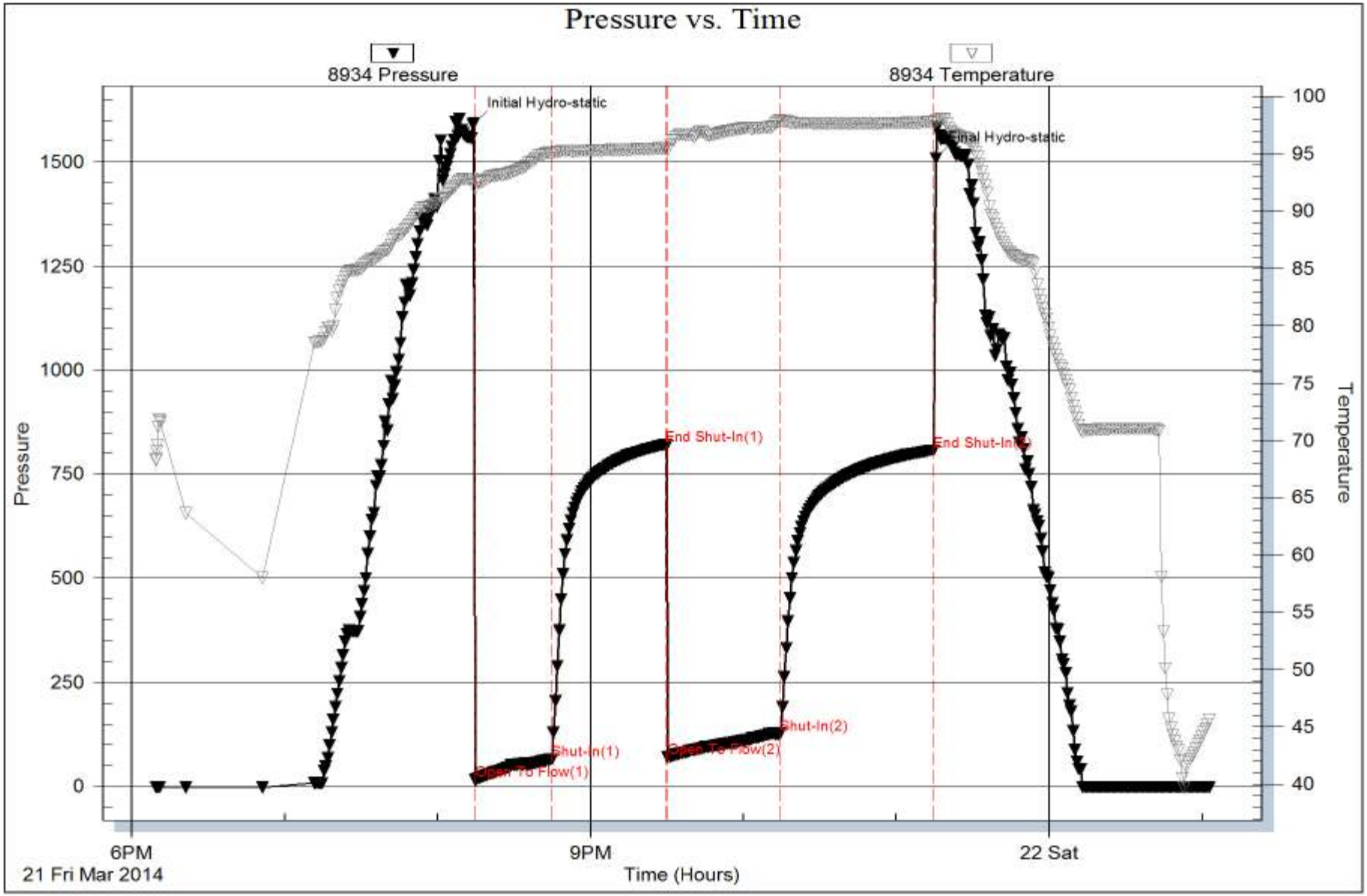
Recovery Table

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

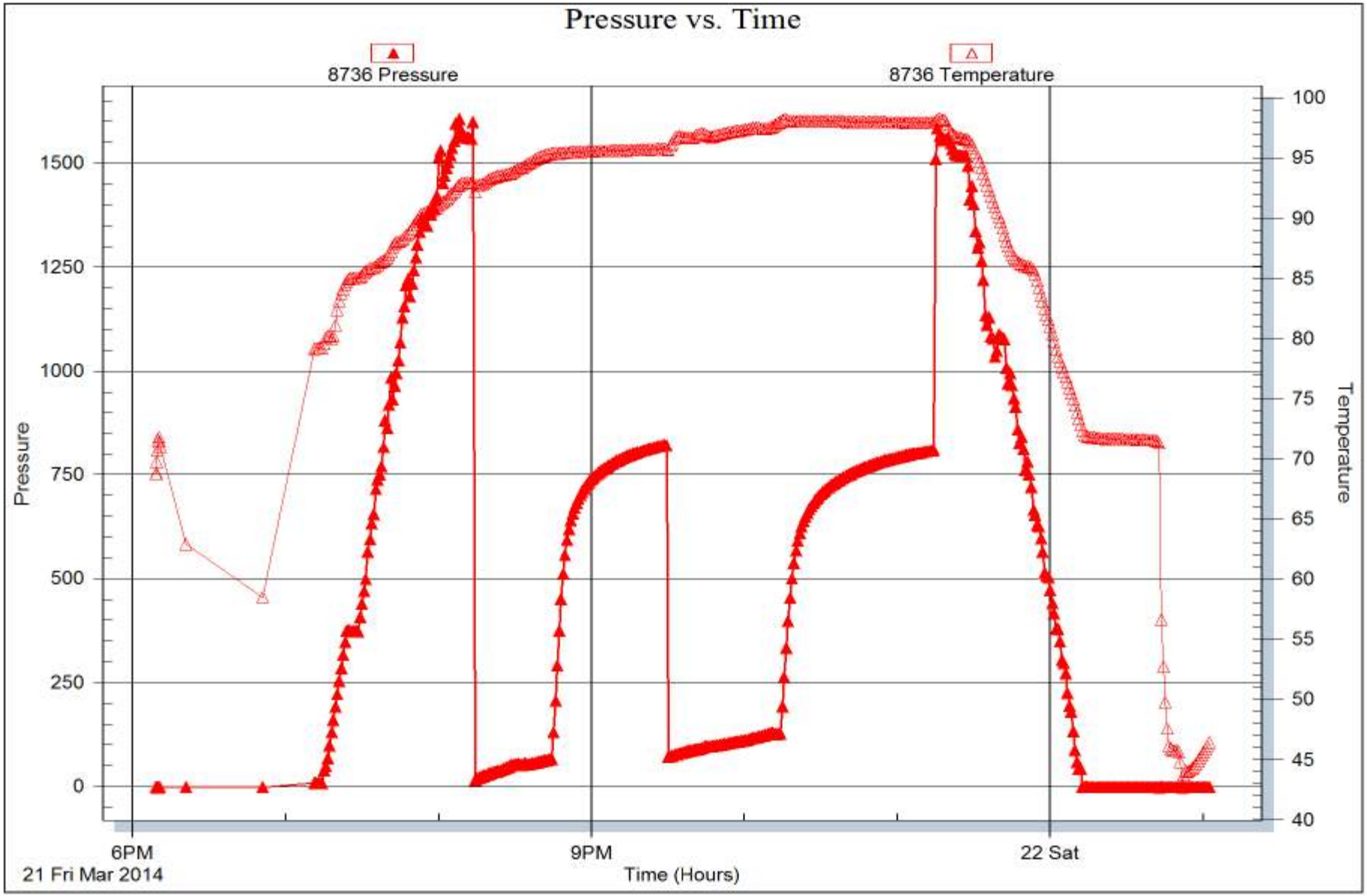
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8934 **Inside** Charter Energy, Inc VonFeldt #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 57505 Printed: 2014.03.25 @ 13:54:37

Serial #: 8736 **Outside** Charter Energy, Inc VonFeldt #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 57505 Printed: 2014.03.25 @ 13:54:37

TRILOBITE TESTING, INC.

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

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

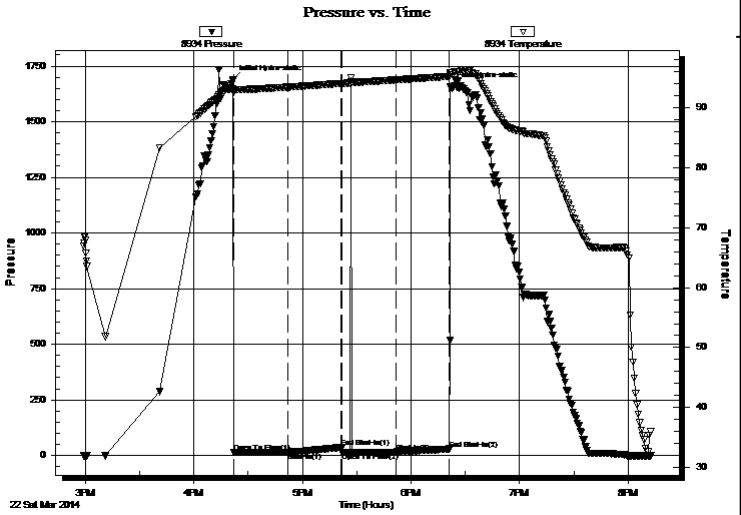
Reference Elevations: 1969.00 ft (KB)
1963.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8934 **Inside**

Press@RunDepth: 15.24 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: 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 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

* Recovery from multiple tests

Gas Rates

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

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

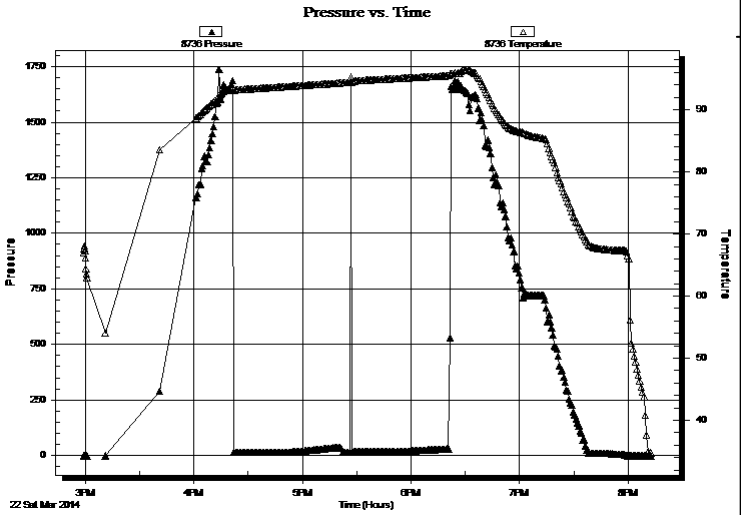
Reference Elevations: 1969.00 ft (KB)
1963.00 ft (CF)
KB to GR/CF: 6.00 ft

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 SUMMARY

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

Recovery

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

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

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 betw een 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	
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**					

DRILL STEM TEST REPORT

FLUID SUMMARY

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

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:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6500.00 ppm				
Filter Cake:	inches				

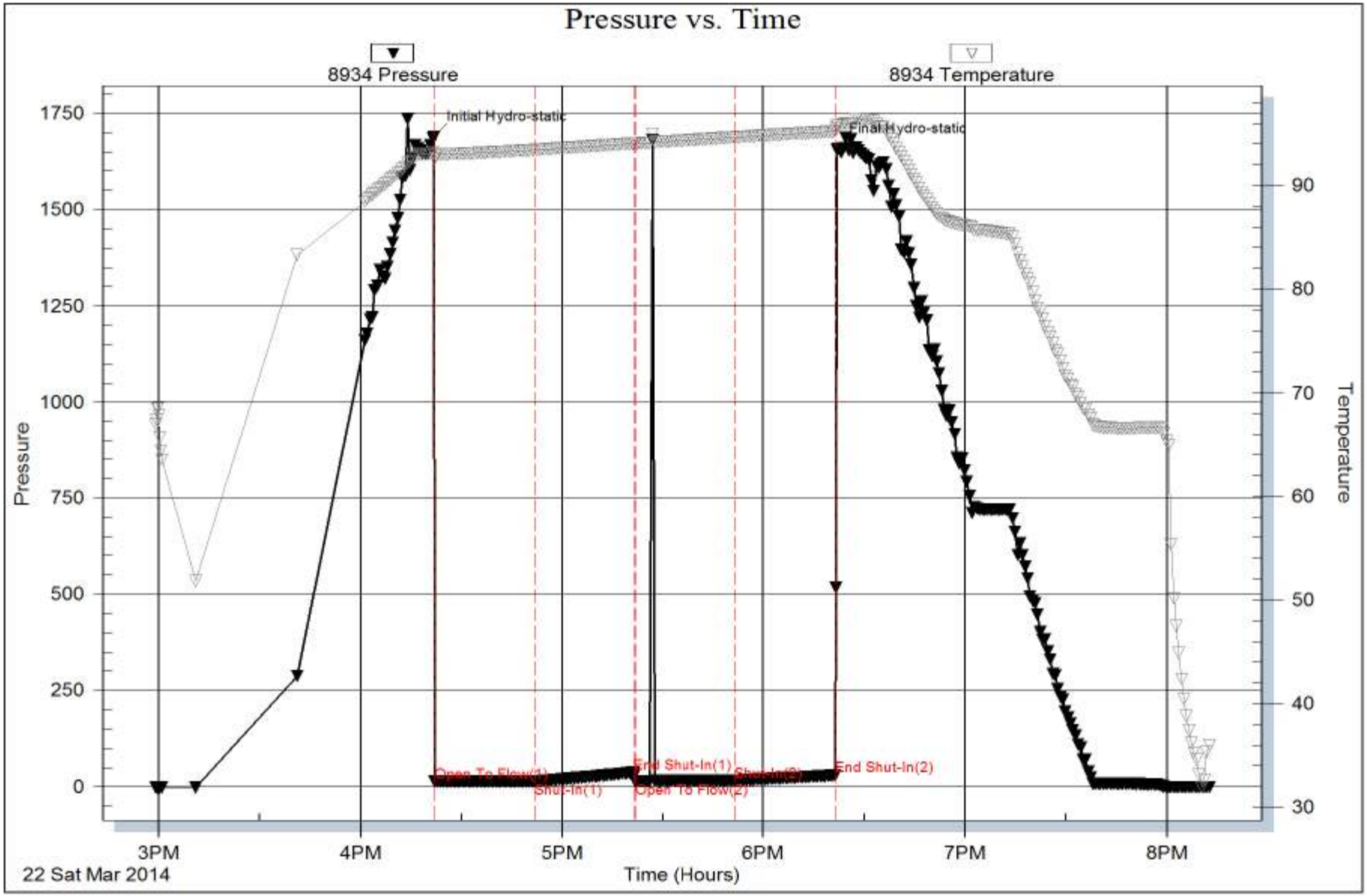
Recovery Information

Recovery Table

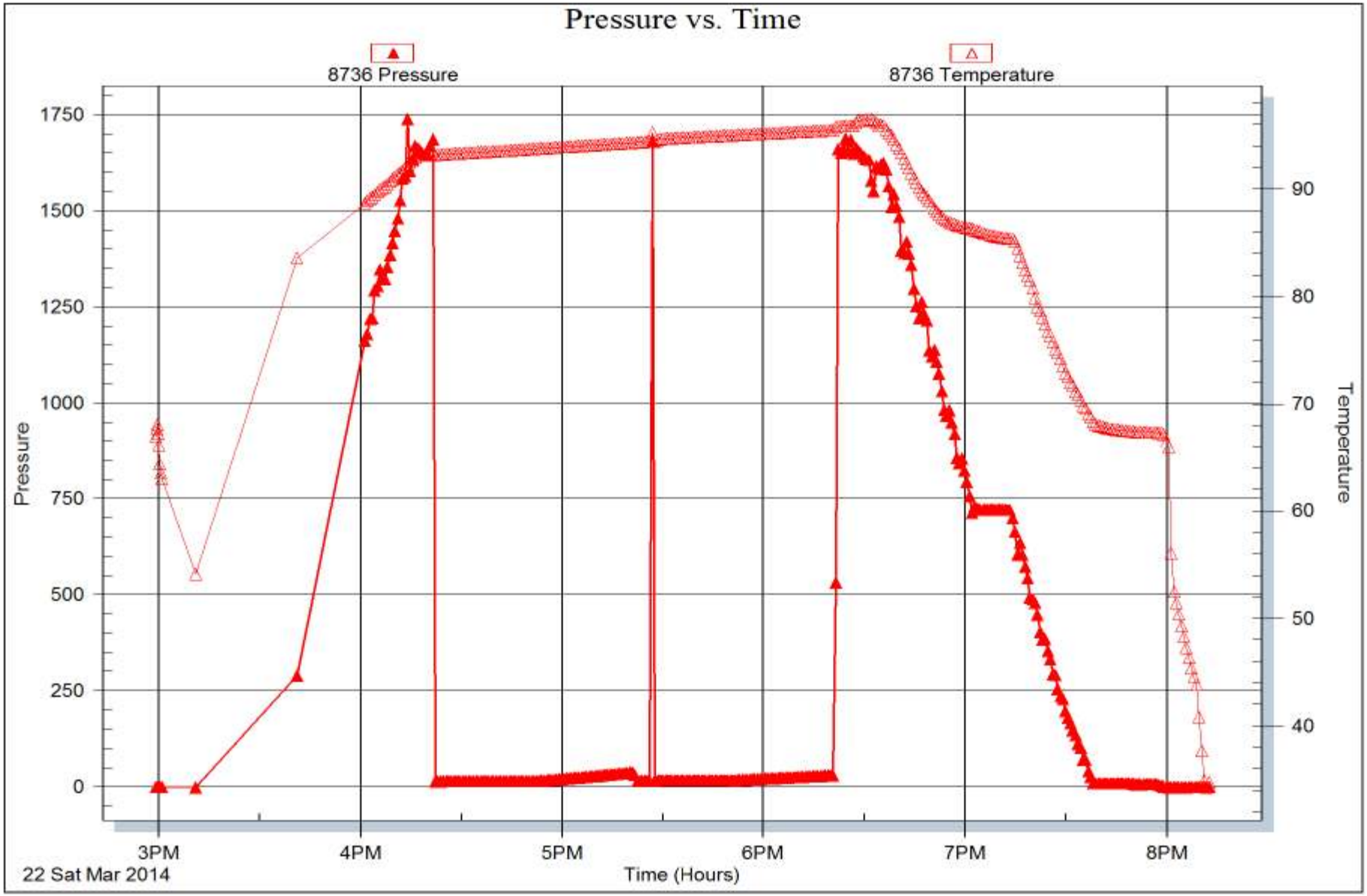
Length ft	Description	Volume bbl
5.00	M 100%m	0.070

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:


Pressure vs. Time
8934 Pressure
8934 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
End Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
90
80
70
60
50
40
30
3PM
4PM
5PM
6PM
7PM
8PM
22 Sat Mar 2014
Time (Hours)

Serial #: 8736 **Outside** Charter Energy, Inc VonFeldt #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 57506 Printed: 2014.03.25 @ 13:49:15

TRILOBITE TESTING, INC.

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

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

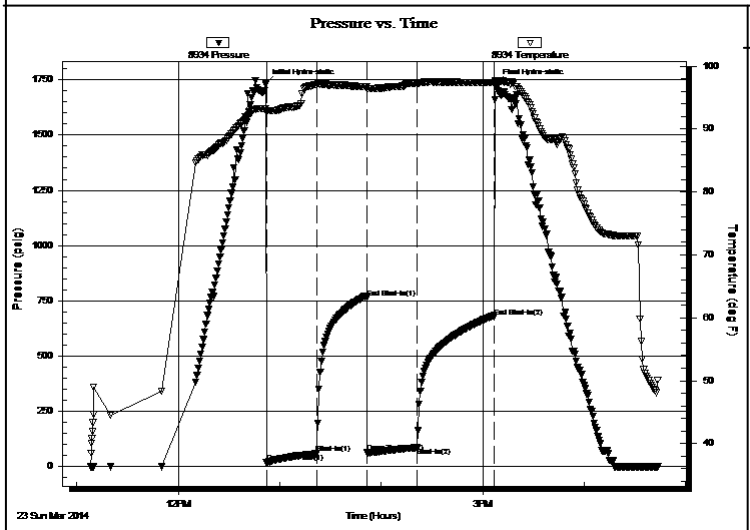
Interval: 3476.00 ft (KB) To 3560.00 ft (KB) (TVD)
Total Depth: 3560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

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 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

* Recovery from multiple tests

Gas Rates

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

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

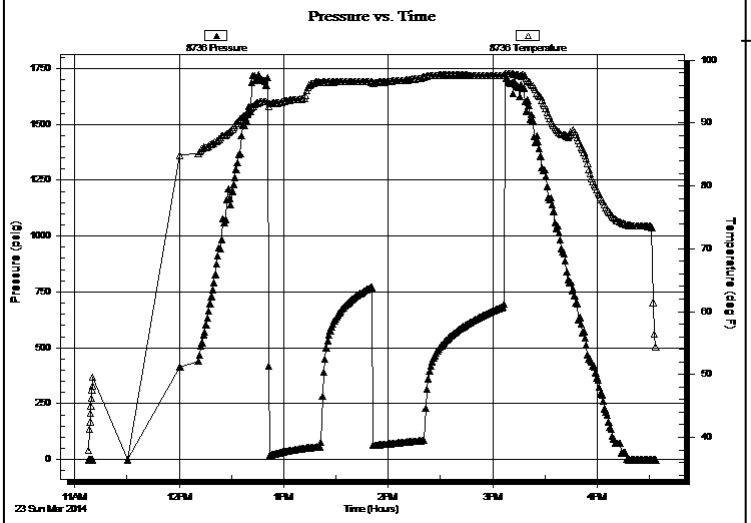
Reference Elevations: 1969.00 ft (KB)
1963.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 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 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

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

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 betw een 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	
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**					

DRILL STEM TEST REPORT

FLUID SUMMARY

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

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:	25000 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6500.00 ppm				
Filter Cake:	inches				

Recovery Information

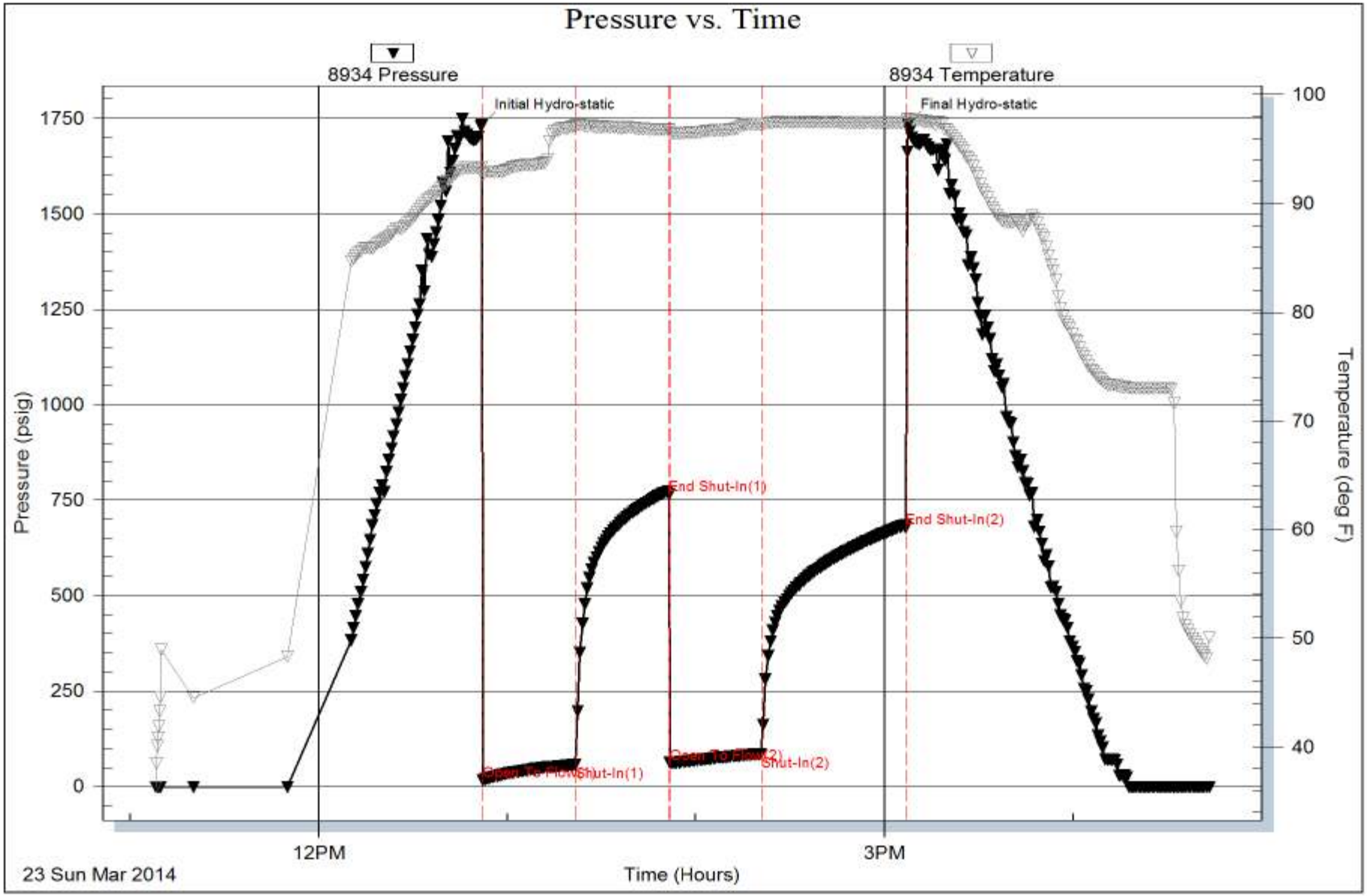
Recovery Table

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

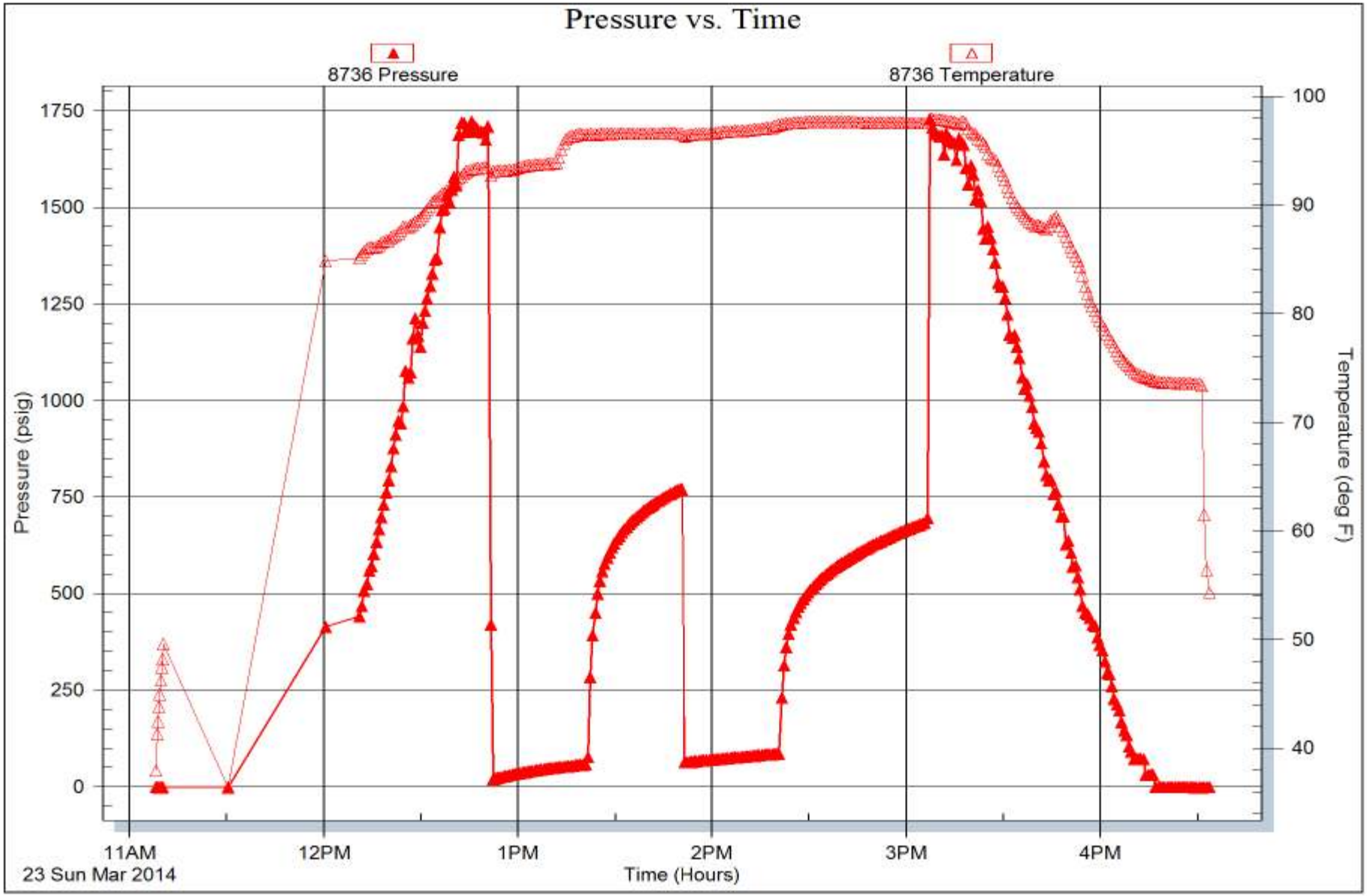
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8934 **Inside** Charter Energy, Inc VonFeldt #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 57507 Printed: 2014.03.25 @ 13:48:46

Serial #: 8736 **Outside** Charter Energy, Inc VonFeldt #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 57507 Printed: 2014.03.25 @ 13:48:46

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

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. 16W Co. Ellis State KS

Interval Tested 3260-3340 Zone Tested LKC "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
62	MW			90	10
175	M				100

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	
Initial Open	30	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	0
Final Flow	45	☐ Day Standby		Total	1196.50
Final Shut-In	60	☐ Accessibility		MP/DST Disc't	
		Sub Total	1196.50		

Approved By ______ Our Representative [signature]

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

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 57506

Well Name & No. Vonfeldt #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. 15S Rge. 16W Co. Ellis State KS

Interval Tested 3400-3490 Zone Tested LKC "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 5	Feet of M	%gas	%oil	%water 100	%mud	
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 1689
(B) First Initial Flow 13
(C) First Final Flow 13
(D) Initial Shut-In 37
(E) Second Initial Flow 14
(F) Second Final Flow 15
(G) Final Shut-In 29
(H) Final Hydrostatic 1656

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

- ☑ Test 1150
- ☐ Jars
- ☐ Safety Joint
- ☐ Circ Sub
- ☐ Hourly Standby
- ☑ Mileage 30 RT 46.50
- ☐ Sampler
- ☐ Straddle
- ☐ Shale Packer
- ☐ Extra Packer
- ☐ Extra Recorder
- ☐ Day Standby
- ☐ Accessibility

Sub Total 1196.50

T-On Location 14:47
T-Started 14:59
T-Open 16:22
T-Pulled 18:22
T-Out 20:13

Comments

- ☐ Ruined Shale Packer
- ☐ Ruined Packer
- ☐ Extra Copies

Sub Total 0
Total 1196.50
MP/DST Disc't

Approved By Our Representative Brett Dawson / Phillip Hess

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

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
FP - Built to 5"
FSI - No Return

Rec 125	Feet of WCM	%gas	%oil 40	%water 60	%mud	
Rec 25	Feet of M	%gas	%oil	%water 100	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 150 BHT ____ Gravity ____ API RW 1.45 @ 53 °F Chlorides 25,000 ppm

(A) Initial Hydrostatic 1732
(B) First Initial Flow 17
(C) First Final Flow 58
(D) Initial Shut-In 764
(E) Second Initial Flow 63
(F) Second Final Flow 85
(G) Final Shut-In 678
(H) Final Hydrostatic 1732

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

- ☑ Test 1150
- ☐ Jars
- ☐ Safety Joint
- ☐ Circ Sub
- ☐ Hourly Standby
- ☑ Mileage 30 RT 46.50
- ☐ Sampler
- ☐ Straddle
- ☐ Shale Packer
- ☐ Extra Packer
- ☐ Extra Recorder
- ☐ Day Standby
- ☐ Accessibility

Sub Total 1196.50

T-On Location 10:56
T-Started 11:08
T-Open 12:52
T-Pulled 15:07
T-Out 16:35

Comments

- ☐ Ruined Shale Packer
- ☐ Ruined Packer
- ☐ Extra Copies

Sub Total 0
Total 1196.50
MP/DST Disc't

Approved By ____ Our Representative Matt Lange