



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1232850
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____ Date: _____



1232850

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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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. 387

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-19-14	26	15	18	Ellis	KS		9:30 am
Lease <u>Lejker A</u>				Well No. <u>1</u>		Owner	
Contractor <u>Royal #1</u>				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 <u>Surface</u>				Charge To <u>Charter Energy</u>			
Hole Size <u>12 1/4</u>		T.D. <u>1114</u>		Street			
Csg. <u>8 5/8 23"</u>		Depth <u>1113</u>		City		State	
Tbg. Size		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint <u>23'</u>		Cement Amount Ordered <u>450^{70/30} 3/4 24RL</u>			
Meas Line		Displace <u>69 1/4 BBL</u>					
EQUIPMENT				Common			
Pumptrk	No. <u>5</u>	Cementer		Poz. Mix			
		Helper					
Bulktrk	No. <u>1</u>	Driver		Gel.			
		Driver					
Bulktrk	No. <u>1</u>	Driver		Calcium			
		Driver					
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or GD110 CAF 38			
D/V or Port Collar				Sand			
<u>8 5/8 on bottom ES Circulation</u>				Handling			
<u>Mix 452SK & Displace Plug</u>				Mileage			
<u>Baffle plate @ 1090</u>				FLOAT EQUIPMENT			
<u>Cement Circulated!</u>				Guide Shoe <u>8 5/8</u>			
				Centralizer <u>2</u>			
				Baskets <u>Baffle Plate</u>			
				AFU Inserts <u>Rubber Plug</u>			
				Float Shoe			
				Latch Down			
				Pumptrk Charge			
				Mileage			
				Tax			
				Discount			
X Signature <u>Henry Buey</u>				Total Charge			

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 756

Cell 785-324-1041

Date	9-25-14	Sec.	26	Twp.	15	Range	18	County	Ellis	State	KS	On Location	2:30pm	Finish	4:45pm	
Lease	Leiker "A"							Well No.	1	Location Mun Jan Sto Smokey hill						
Contractor	Royal							1	Owner River Road 1/2 W 51st							
Type Job	plug							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.								
Hole Size	7 7/8							T.D.	3573							
Csg.	Dill pipe							Depth	Street Charter Energy							
Tbg. Size								Depth	City							
Tool								Depth	The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.								Shoe Joint	Cement Amount Ordered 280 60/40							
Meas Line								Displace	Wogel 1/4 flow							
EQUIPMENT																
Pumptrk	20	No.	Cementer		Helper		768									
Bulktrk	13	No.	Driver		Driver		112									
Bulktrk	pu	No.	Driver		Driver		10									
JOB SERVICES & REMARKS																
Remarks:								Hulls								
Rat Hole	30 S/S							Salt								
Mouse Hole	15 S/S							Flowseal 70#								
Centralizers								Kol-Seal								
Baskets								Mud CLR 48								
D/V or Port Collar								CFL-117 or CD110 CAF 38								
1st	35 10ft 50 S/S							Sand								
								Handling 290								
								Mileage 878								
								FLOAT EQUIPMENT								
2nd	11 70ft 75 S/S							Guide Shoe								
								Centralizer								
								Baskets								
3rd	4 70ft 100 S/S							AFU Inserts								
								Float Shoe								
4th	40ft 10 S/S							Latch Down								
								wood plug								
								Pumptrk Charge plug								
								Mileage 9								
												Tax				
												Discount				
X Signature <i>Wesley Budy</i>												Total Charge				



DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

Leiker A #1

26-15s-18w Ellis, KS

Start Date: 2014.09.23 @ 01:23:33

End Date: 2014.09.23 @ 08:32:03

Job Ticket #: 60911 DST #: 1

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

Printed: 2014.09.26 @ 08:52:55



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

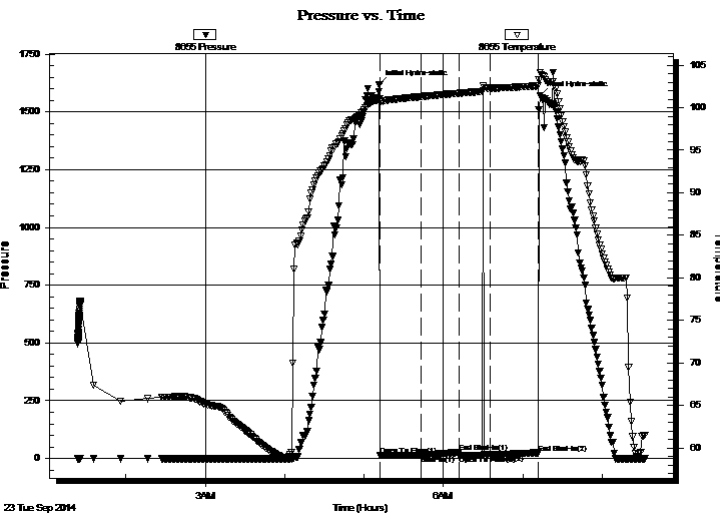
26-15s-18w Ellis, KS
Leiker A #1
Job Ticket: 60911 **DST#: 1**
Test Start: 2014.09.23 @ 01:23:33

GENERAL INFORMATION:

Formation: **LKC "A-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:12:03
Time Test Ended: 08:32:03
Interval: **3238.00 ft (KB) To 3320.00 ft (KB) (TVD)**
Total Depth: 3320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Brannan Lonsdale
Unit No: 62
Reference Elevations: 1972.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8655 Outside
Press@RunDepth: 17.27 psig @ 3239.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.23 End Date: 2014.09.23 Last Calib.: 2014.09.23
Start Time: 01:23:34 End Time: 08:32:03 Time On Btm: 2014.09.23 @ 05:11:33
Time Off Btm: 2014.09.23 @ 07:13:03

TEST COMMENT: 30- IF- Built to 3/4" in 7mins & maintained throughout
30- IS- No blow
30- FF- No blow Flushed tool half way through
30- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.26	101.09	Initial Hydro-static
1	12.62	100.75	Open To Flow (1)
32	14.52	101.30	Shut-In(1)
60	26.46	101.70	End Shut-In(1)
61	14.89	101.70	Open To Flow (2)
84	17.27	102.29	Shut-In(2)
120	24.42	102.56	End Shut-In(2)
122	1569.52	104.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

26-15s-18w Ellis, KS

PO Box 252
Great Bend, KS 67530

Leiker A #1

Job Ticket: 60911

DST#: 1

ATTN: Kurt Talbott

Test Start: 2014.09.23 @ 01:23:33

Tool Information

Drill Pipe:	Length: 3232.00 ft	Diameter: 3.75 inches	Volume: 44.15 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 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: 51000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3238.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3219.00	
Shut In Tool	5.00			3224.00	
Hydraulic tool	5.00			3229.00	
Packer	5.00			3234.00	20.00 Bottom Of Top Packer
Packer	4.00			3238.00	
Stubb	1.00			3239.00	
Recorder	0.00	8651	Inside	3239.00	
Recorder	0.00	8655	Outside	3239.00	
Perforations	12.00			3251.00	
Change Over Sub	1.00			3252.00	
Drill Pipe	64.00			3316.00	
Change Over Sub	1.00			3317.00	
Bullnose	3.00			3320.00	82.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

26-15s-18w Ellis, KS

PO Box 252
Great Bend, KS 67530

Leiker A #1

Job Ticket: 60911

DST#: 1

ATTN: Kurt Talbott

Test Start: 2014.09.23 @ 01:23:33

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:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M	0.137

Total Length: 10.00 ft Total Volume: 0.137 bbl

Num Fluid Samples: 0

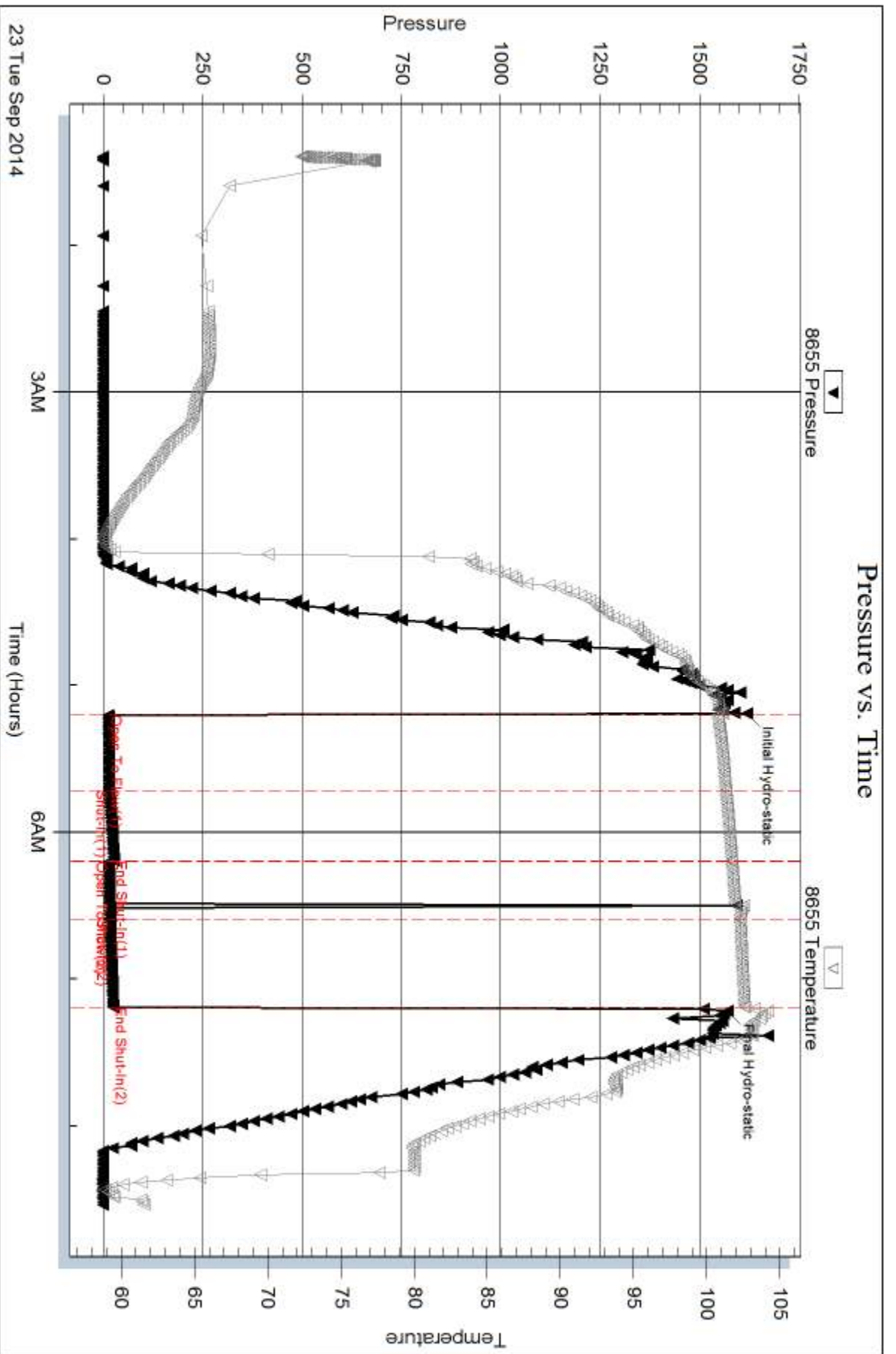
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



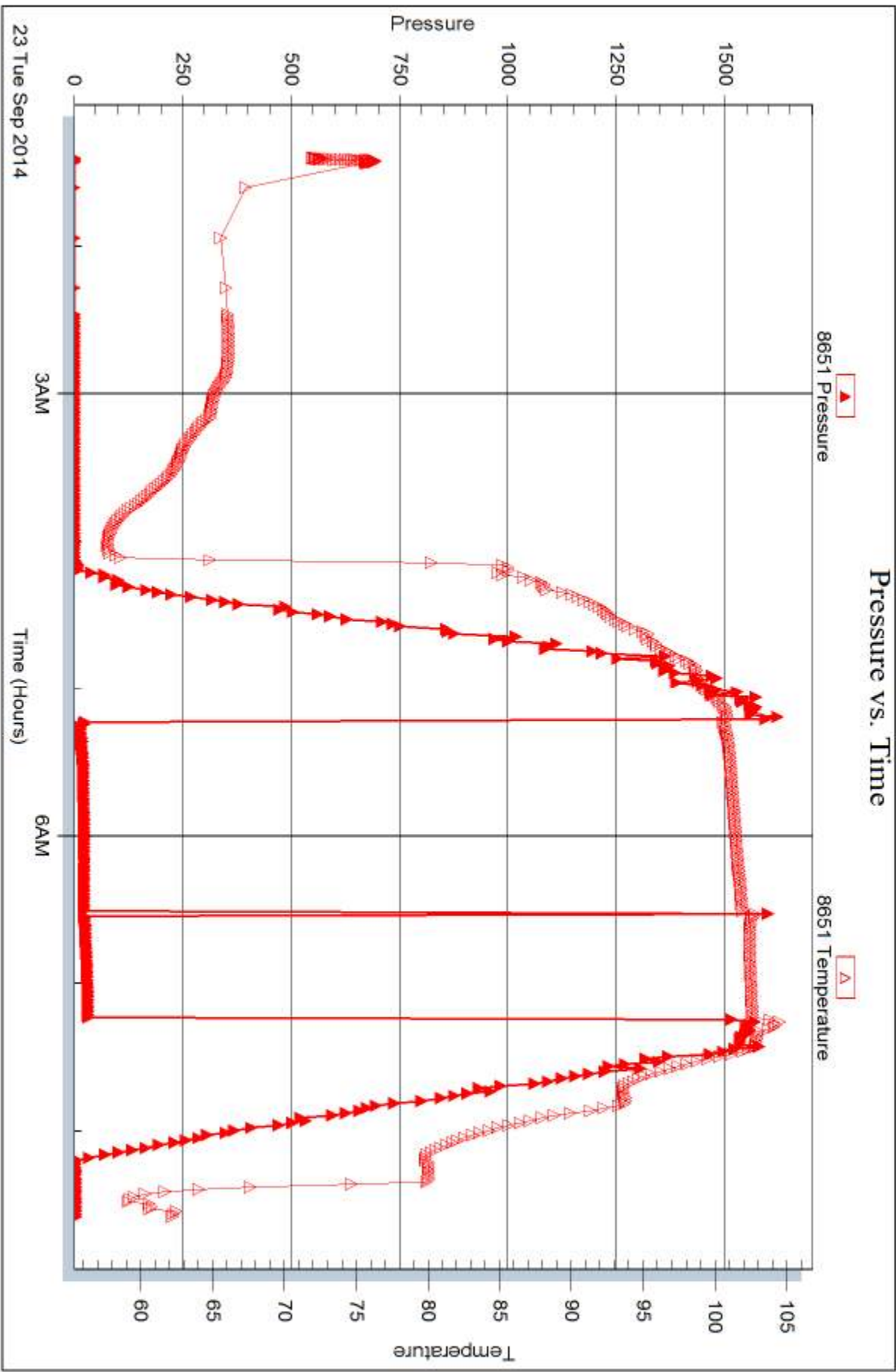
Serial #: 8651

Inside

Charter Energy, Inc.

Leiker A #1

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

Leiker A #1

26-15s-18w Ellis, KS

Start Date: 2014.09.23 @ 21:28:06

End Date: 2014.09.24 @ 02:15:36

Job Ticket #: 60912 DST #: 2

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

Printed: 2014.09.26 @ 08:52:31

Charter Energy, Inc. 26-15s-18w Ellis, KS Leiker A #1 DST # 2 LKC "H-K" 2014.09.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

26-15s-18w Ellis, KS

Leiker A #1

Job Ticket: 60912

DST#: 2

Test Start: 2014.09.23 @ 21:28:06

GENERAL INFORMATION:

Formation: **LKC "H-K"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 22:51:36
 Tester: Brannan Lonsdale
 Time Test Ended: 02:15:36
 Unit No: 62
Interval: 3384.00 ft (KB) To 3475.00 ft (KB) (TVD)
 Reference Elevations: 1972.00 ft (KB)
 Total Depth: 3475.00 ft (KB) (TVD)
 1965.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 7.00 ft

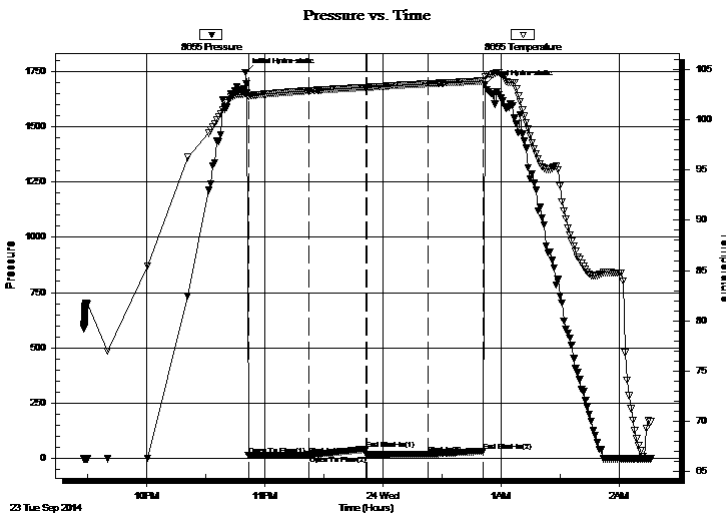
Serial #: 8655

Outside

Press@RunDepth: 20.16 psig @ 3385.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.23 End Date: 2014.09.24 Last Calib.: 2014.09.24
 Start Time: 21:28:07 End Time: 02:15:36 Time On Btm: 2014.09.23 @ 22:50:06
 Time Off Btm: 2014.09.24 @ 00:51:36

TEST COMMENT: 30- IF- Surface blow died in 27 mins
 30- IS- No blow
 30- FF- No blow Flushed tool
 30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1744.17	102.67	Initial Hydro-static
2	14.64	102.33	Open To Flow (1)
32	16.88	102.88	Shut-In(1)
61	42.23	103.23	End Shut-In(1)
62	16.70	103.22	Open To Flow (2)
93	20.16	103.58	Shut-In(2)
121	33.99	103.86	End Shut-In(2)
122	1688.63	104.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.20

* 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.

26-15s-18w Ellis, KS

PO Box 252
Great Bend, KS 67530

Leiker A #1

Job Ticket: 60912

DST#: 2

ATTN: Kurt Talbott

Test Start: 2014.09.23 @ 21:28:06

Tool Information

Drill Pipe:	Length: 3389.00 ft	Diameter: 3.75 inches	Volume: 46.30 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 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:	49000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	48000.00 lb
Drill Pipe Above KB:	25.00 ft			Final	48000.00 lb
Depth to Top Packer:	3384.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	91.00 ft				
Tool Length:	111.00 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			3365.00	
Shut In Tool	5.00			3370.00	
Hydraulic tool	5.00			3375.00	
Packer	5.00			3380.00	20.00 Bottom Of Top Packer
Packer	4.00			3384.00	
Stubb	1.00			3385.00	
Recorder	0.00	8651	Inside	3385.00	
Recorder	0.00	8655	Outside	3385.00	
Perforations	22.00			3407.00	
Change Over Sub	1.00			3408.00	
Drill Pipe	63.00			3471.00	
Change Over Sub	1.00			3472.00	
Bullnose	3.00			3475.00	91.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

26-15s-18w Ellis, KS

PO Box 252
Great Bend, KS 67530

Leiker A #1

Job Ticket: 60912

DST#: 2

ATTN: Kurt Talbott

Test Start: 2014.09.23 @ 21:28:06

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M	0.205

Total Length: 15.00 ft Total Volume: 0.205 bbl

Num Fluid Samples: 0

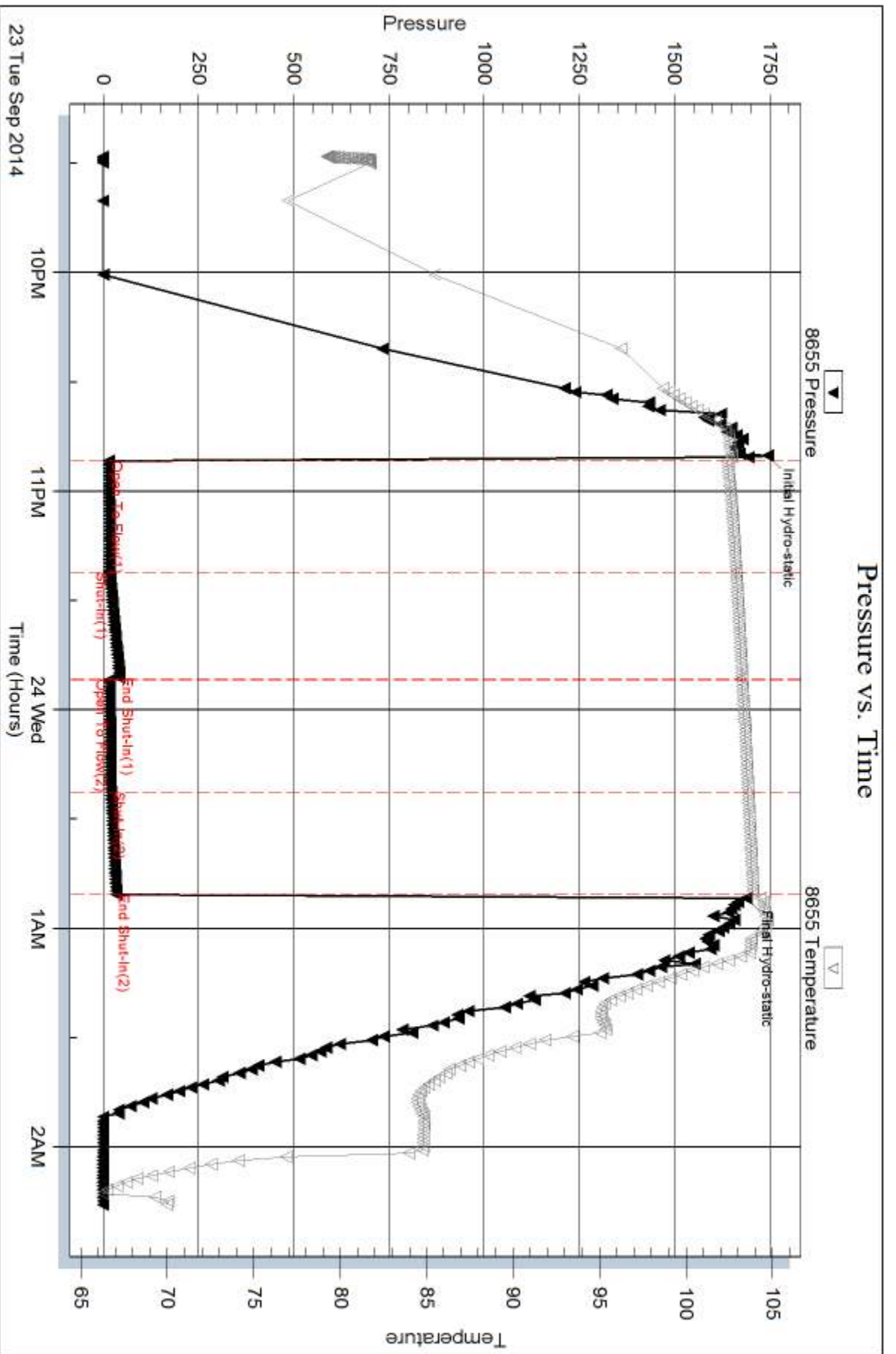
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



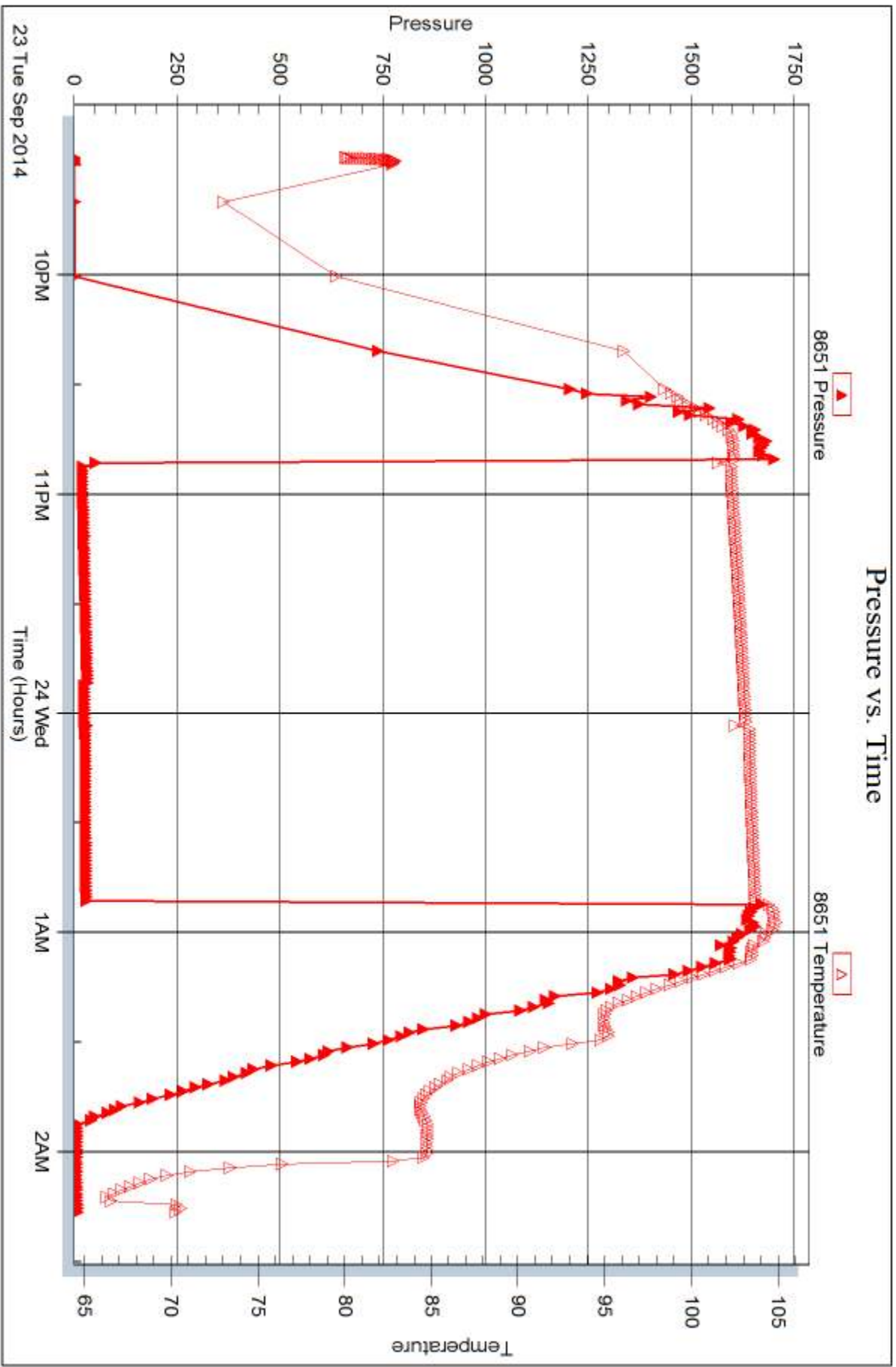
Serial #: 8651

Inside

Charter Energy, Inc.

Leiker A #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60912

Printed: 2014.09.26 @ 08:52:33



DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

Leiker A #1

26-15s-18w Ellis, KS

Start Date: 2014.09.24 @ 16:17:59

End Date: 2014.09.24 @ 21:38:59

Job Ticket #: 60913 DST #: 3

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

Printed: 2014.09.26 @ 08:50:27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

26-15s-18w Ellis, KS
Leiker A #1
 Job Ticket: 60913 **DST#: 3**
 Test Start: 2014.09.24 @ 16:17:59

GENERAL INFORMATION:

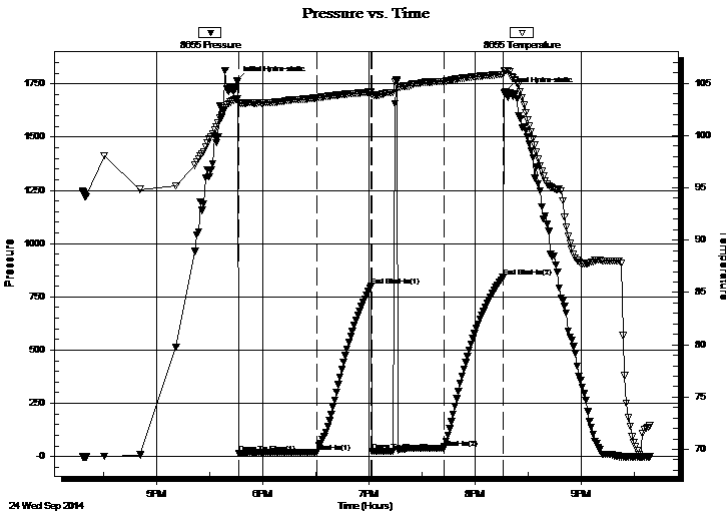
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:46:29 Tester: Brannan Lonsdale
 Time Test Ended: 21:38:59 Unit No: 62
 Interval: **3482.00 ft (KB) To 3567.00 ft (KB) (TVD)** Reference Elevations: 1972.00 ft (KB)
 Total Depth: 3567.00 ft (KB) (TVD) 1965.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8655 Outside

Press@RunDepth: 39.26 psig @ 3483.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.24 End Date: 2014.09.24 Last Calib.: 2014.09.24
 Start Time: 16:18:00 End Time: 21:38:59 Time On Btm: 2014.09.24 @ 17:44:59
 Time Off Btm: 2014.09.24 @ 20:16:59

TEST COMMENT: 45- IF- Slowly built to 3/4"
 30- IS- No blow
 45- FF- No blow Flushed tool Weak surface blow died in 7 mins
 30- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.52	103.51	Initial Hydro-static
2	15.37	103.09	Open To Flow (1)
46	20.76	103.58	Shut-In(1)
76	798.88	104.15	End Shut-In(1)
77	24.82	103.93	Open To Flow (2)
117	39.26	105.16	Shut-In(2)
151	841.22	105.84	End Shut-In(2)
152	1711.25	106.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	M	0.75

* 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.

26-15s-18w Ellis, KS

PO Box 252
Great Bend, KS 67530

Leiker A #1

Job Ticket: 60913

DST#: 3

ATTN: Kurt Talbott

Test Start: 2014.09.24 @ 16:17:59

Tool Information

Drill Pipe:	Length: 3485.00 ft	Diameter: 3.75 inches	Volume: 47.61 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 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: 51000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3482.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	105.00 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			3463.00	
Shut In Tool	5.00			3468.00	
Hydraulic tool	5.00			3473.00	
Packer	5.00			3478.00	20.00 Bottom Of Top Packer
Packer	4.00			3482.00	
Stubb	1.00			3483.00	
Recorder	0.00	8651	Inside	3483.00	
Recorder	0.00	8655	Outside	3483.00	
Perforations	15.00			3498.00	
Change Over Sub	1.00			3499.00	
Drill Pipe	64.00			3563.00	
Change Over Sub	1.00			3564.00	
Bullnose	3.00			3567.00	85.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

26-15s-18w Ellis, KS
Leiker A #1
Job Ticket: 60913 **DST#: 3**
Test Start: 2014.09.24 @ 16:17:59

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: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

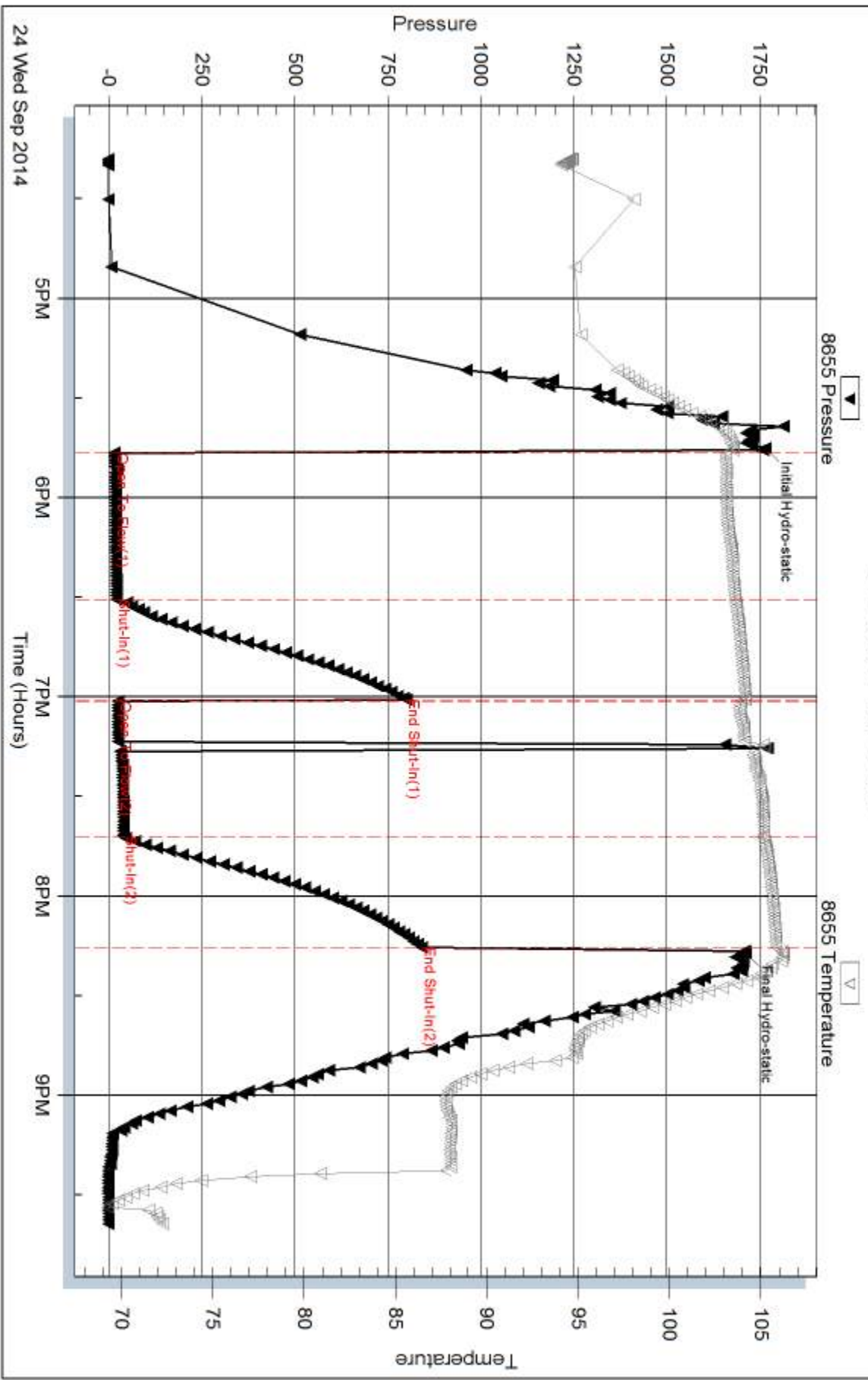
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	M	0.751

Total Length: 55.00 ft Total Volume: 0.751 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



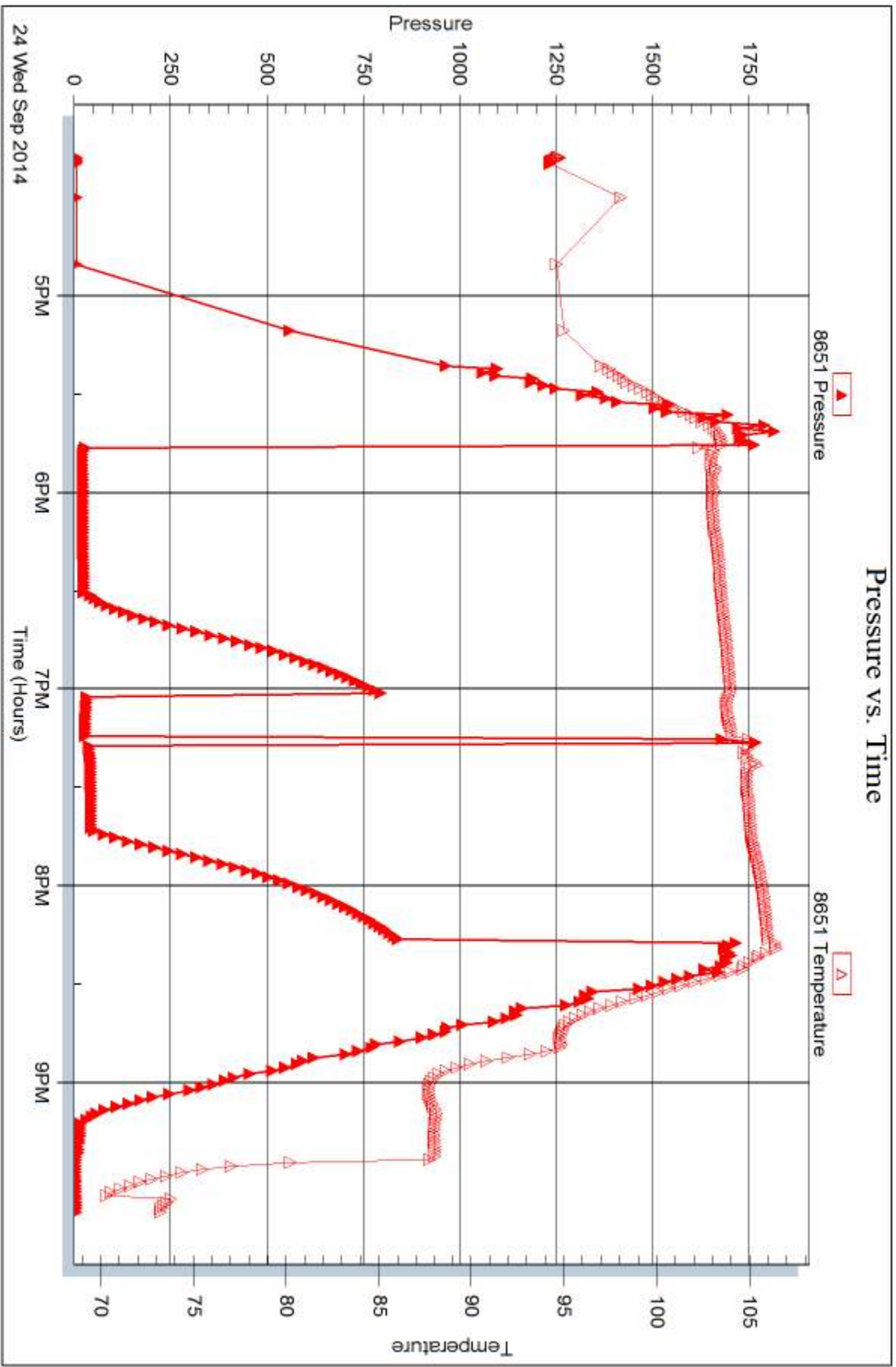
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Inside

Charter Energy, Inc.

Leiker A #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 60913

Printed: 2014.09.26 @ 08:50:28



DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

Leiker A #1

26-15s-18w Ellis, KS

Start Date: 2014.09.25 @ 01:45:53

End Date: 2014.09.25 @ 07:55:23

Job Ticket #: 60914 DST #: 4

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

Printed: 2014.09.26 @ 08:49:58



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

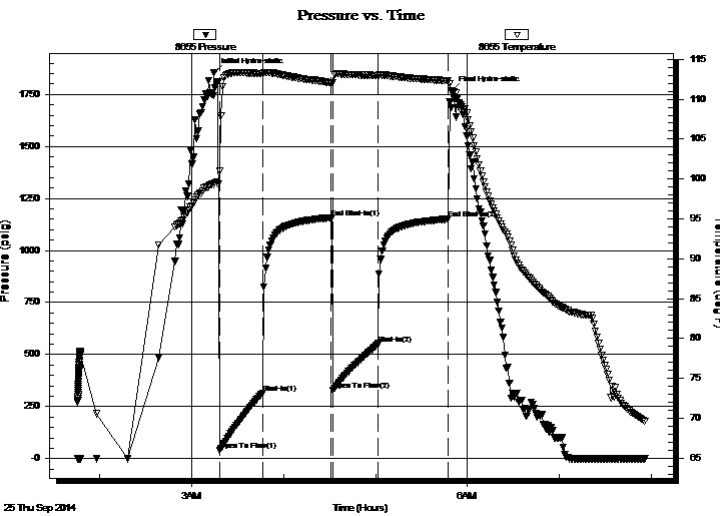
26-15s-18w Ellis, KS
Leiker A #1
Job Ticket: 60914 **DST#: 4**
Test Start: 2014.09.25 @ 01:45:53

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:18:23
Time Test Ended: 07:55:23
Interval: **3565.00 ft (KB) To 3573.00 ft (KB) (TVD)**
Total Depth: 3573.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan Lonsdale
Unit No: 62
Reference Elevations: 1972.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8655 Outside
Press@RunDepth: 552.00 psig @ 3566.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.25 End Date: 2014.09.25 Last Calib.: 2014.09.25
Start Time: 01:45:54 End Time: 07:55:23 Time On Btm: 2014.09.25 @ 03:14:53
Time Off Btm: 2014.09.25 @ 05:49:53

TEST COMMENT: 30- IF- BOB 4 mins
45- IS- No blow
30- FF- BOB 3 mins
45- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1855.36	99.42	Initial Hydro-static
4	39.73	100.97	Open To Flow (1)
32	316.29	113.21	Shut-In(1)
76	1157.68	112.06	End Shut-In(1)
78	329.60	112.06	Open To Flow (2)
107	552.00	112.96	Shut-In(2)
153	1150.59	112.32	End Shut-In(2)
155	1768.66	110.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1200.00	SMW, 5%M 95%W	16.39

* 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.

26-15s-18w Ellis, KS

PO Box 252
Great Bend, KS 67530

Leiker A #1

Job Ticket: 60914

DST#: 4

ATTN: Kurt Talbott

Test Start: 2014.09.25 @ 01:45:53

Tool Information

Drill Pipe:	Length: 3549.00 ft	Diameter: 3.75 inches	Volume: 48.48 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 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:	54000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	48000.00 lb
Drill Pipe Above KB:	4.00 ft			Final	52000.00 lb
Depth to Top Packer:	3565.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	8.00 ft				
Tool Length:	28.00 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			3546.00	
Shut In Tool	5.00			3551.00	
Hydraulic tool	5.00			3556.00	
Packer	5.00			3561.00	20.00 Bottom Of Top Packer
Packer	4.00			3565.00	
Stubb	1.00			3566.00	
Recorder	0.00	8651	Inside	3566.00	
Recorder	0.00	8655	Outside	3566.00	
Perforations	4.00			3570.00	
Bullnose	3.00			3573.00	8.00 Bottom Packers & Anchor
Total Tool Length:	28.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

26-15s-18w Ellis, KS

PO Box 252
Great Bend, KS 67530

Leiker A #1

Job Ticket: 60914

DST#: 4

ATTN: Kurt Talbott

Test Start: 2014.09.25 @ 01:45:53

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:

40000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1200.00	SMW, 5%M 95%W	16.393

Total Length: 1200.00 ft Total Volume: 16.393 bbl

Num Fluid Samples: 0

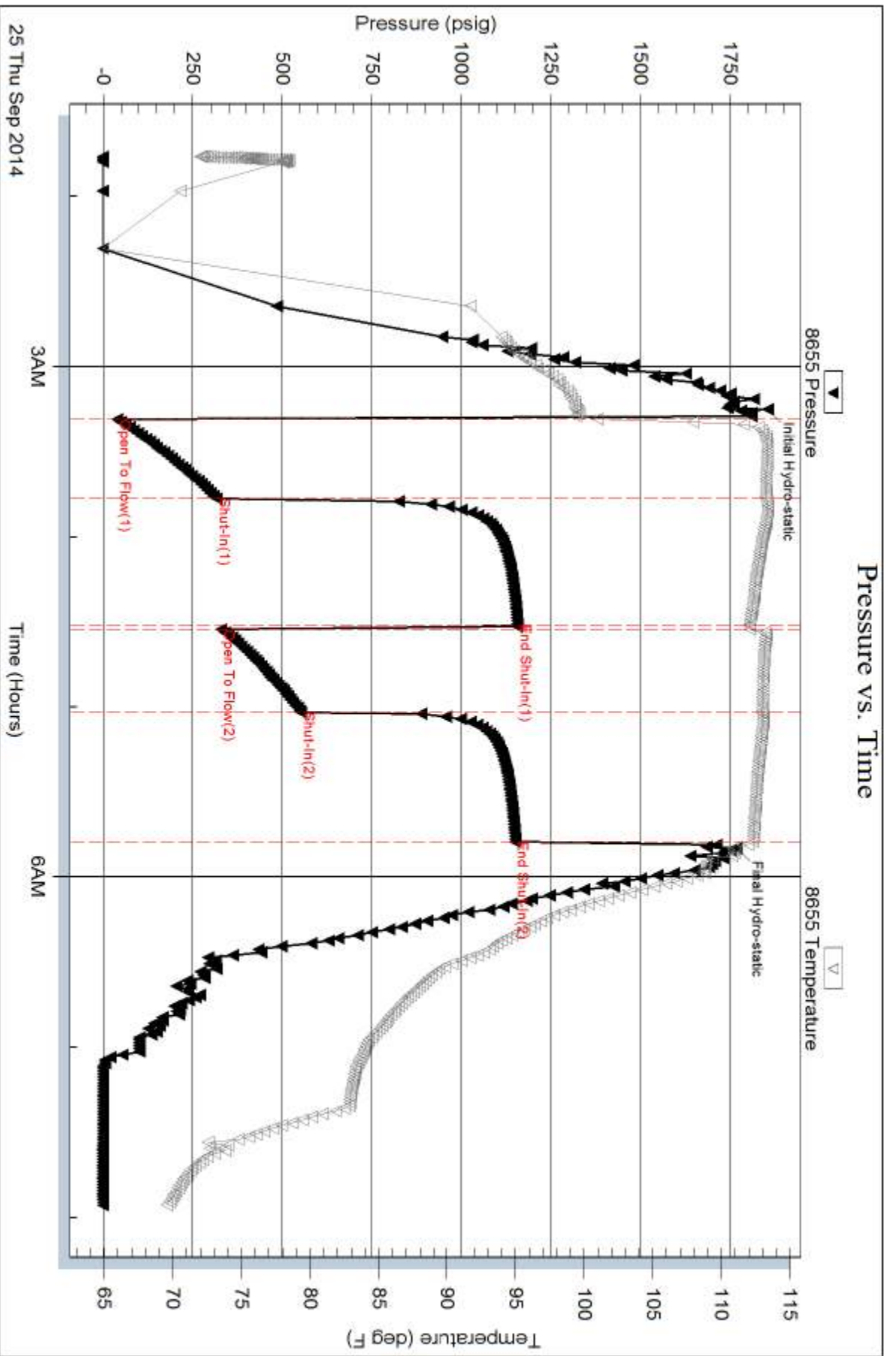
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



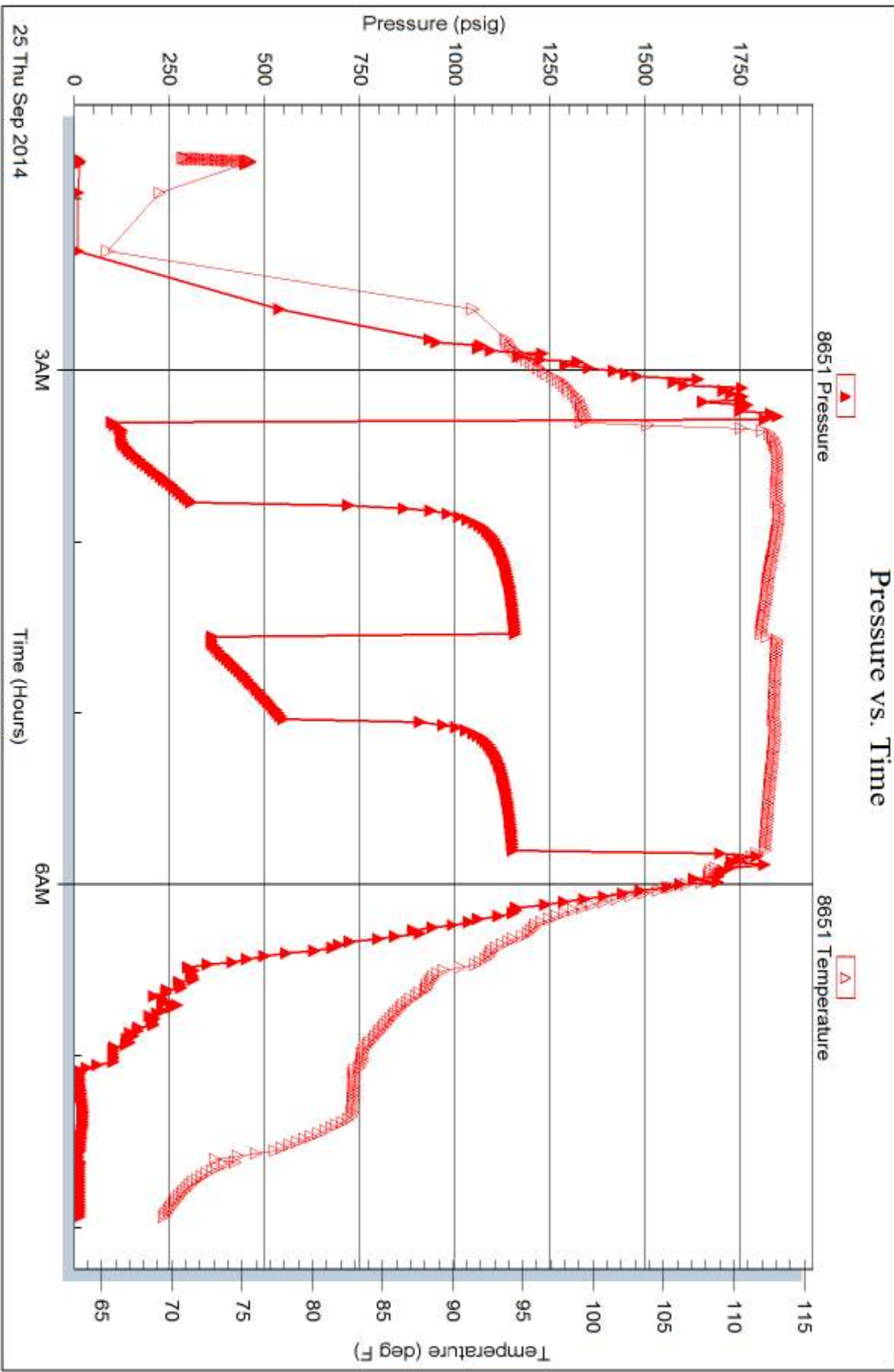
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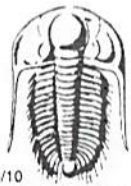
Inside

Charter Energy, Inc.

Leiker A #1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60911

Well Name & No. Leiker A #1 Test No. 1 Date 9/23/14
 Company Charter Energy, Inc. Elevation 1970 KB 1965 GL
 Address PO Box 252 Crest Bend, KS 67530
 Co. Rep / Geo. Kurt Talbot Rig Royal #1
 Location: Sec. 26 Twp. 15 S Rge. 18 W Co. Ellis State KS

Interval Tested 3238-3320 Zone Tested LKC "AF"
 Anchor Length 82' Drill Pipe Run 3232 Mud Wt. 8.7
 Top Packer Depth 3233 Drill Collars Run --- Vis 47
 Bottom Packer Depth 3238 Wt. Pipe Run --- WL 7.2
 Total Depth 3320 Chlorides 2200 ppm System LCM 2#

Blow Description IF - Built to 3/4" in 7 mins then maintained throughout
ISI - No blow
PF - No blow Flusted tool halfway through
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

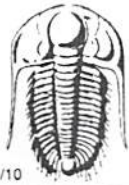
Rec Total 10' BHT 103° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1618 Test 1150 T-On Location 0119
 (B) First Initial Flow 13 Jars --- T-Started 0124
 (C) First Final Flow 15 Safety Joint --- T-Open 0513
 (D) Initial Shut-In 26 Circ Sub --- T-Pulled 0713
 (E) Second Initial Flow 15 Hourly Standby --- T-Out 0834
 (F) Second Final Flow 17 Mileage 30 RT 46.50 Comments ---
 (G) Final Shut-In 24 Sampler ---
 (H) Final Hydrostatic 1570 Straddle --- Ruined Shale Packer ---
 Shale Packer --- Ruined Packer ---

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

Approved By _____ Our Representative Brannan Lonsdale

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. 60912

Well Name & No. Leiker A#1 Test No. 2 Date 9/23/14
 Company Charter Energy, Inc. Elevation 1972 KB 1965 GL
 Address PO Box 252 West Bondy, KS 67530
 Co. Rep / Geo. Kurt Talbott Rig Royal #1
 Location: Sec. 26 Twp. 15 S Rge. 18 W Co. Ellis State KS

Interval Tested 3384-3475 Zone Tested LKC "H-K"
 Anchor Length 91' Drill Pipe Run 3389 Mud Wt. 8.8
 Top Packer Depth 3379 Drill Collars Run — Vis 60
 Bottom Packer Depth 3384 Wt. Pipe Run — WL 2.4
 Total Depth 3475 Chlorides 2,500 ppm System LCM 2#

Blow Description IP - Surface blow died 27 mins
ISI - No blow
FF - No blow Pushed tool
FSI - No blow

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

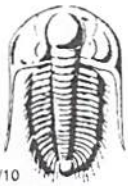
Rec Total 15' BHT 104° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1744 Test 1150 T-On Location 2115
 (B) First Initial Flow 15 Jars — T-Started 2128
 (C) First Final Flow 17 Safety Joint — T-Open 2251
 (D) Initial Shut-In 42 Circ Sub — T-Pulled 0051 9/24
 (E) Second Initial Flow 17 Hourly Standby — T-Out 0216
 (F) Second Final Flow 20 Mileage 30 RT 46.50 Comments —
 (G) Final Shut-In 34 Sampler —
 (H) Final Hydrostatic 1689 Straddle — Ruined Shale Packer —

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

Approved By — Our Representative Brannan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60913

Well Name & No. Leiker A#1 Test No. 3 Date 9/24/14
 Company Charter Energy, Inc. Elevation 1972 KB 1965 GL
 Address PO Box 252, Great Bend, KS 67530
 Co. Rep / Geo. Kurt Talbott Rig Royal #1
 Location: Sec. 26 Twp. 15 S Rge. 18 W Co. E/15 State KS

Interval Tested 3482-3567 Zone Tested Arbuckle
 Anchor Length 85' Drill Pipe Run 3485 Mud Wt. 9.0
 Top Packer Depth 3477 Drill Collars Run — Vis 5.5
 Bottom Packer Depth 3482 Wt. Pipe Run — WL 2.2
 Total Depth 3567 Chlorides 2,500 ppm System LCM 2*

Blow Description IF - slowly built to 3/4"
FSI - No blow
FF - No blow flushed tool weak surface blow died on 7mins
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>55'</u>	<u>M</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 55' BHT 106° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1765 Test 1150 T-On Location 1610
 (B) First Initial Flow 15 Jars — T-Started 1618
 (C) First Final Flow 21 Safety Joint — T-Open 1747
 (D) Initial Shut-In 299 Circ Sub — T-Pulled 2017
 (E) Second Initial Flow 25 Hourly Standby — T-Out 2141
 (F) Second Final Flow 39 Mileage 30 RT 46.50 Comments —
 (G) Final Shut-In 841 Sampler —
 (H) Final Hydrostatic 1711 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —

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

Approved By — Our Representative Brannan Longdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60914

Well Name & No. Leiker A#1 Test No. 4 Date 9/25/14
 Company Charter Energy, Inc. Elevation 1972 KB 1965 GL
 Address PO Box 252 Great Bend, KS 67530
 Co. Rep / Geo. Kurt Talbot Rig Royal #1
 Location: Sec. 26 Twp. 15 S Rge. 18 W Co. Ellis State KS

Interval Tested 3565-3573 Zone Tested Arbuckle
 Anchor Length 8' Drill Pipe Run 3549 Mud Wt. 9.0
 Top Packer Depth 3560 Drill Collars Run --- Vis 55
 Bottom Packer Depth 3565 Wt. Pipe Run --- WL 7.2
 Total Depth 3573 Chlorides 2500 ppm System LCM 2nd
 Blow Description IF- BOB 4mins
ISI- No blow
FP- BOB 3mins
FSD- No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1200</u>	<u>Feet of SMLW</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1200' BHT 112° Gravity --- API RW 21 @ 59 °F Chlorides 40000 ppm
 (A) Initial Hydrostatic 1855 Test 1150 T-On Location 0135
 (B) First Initial Flow 40 Jars --- T-Started 0146
 (C) First Final Flow 316 Safety Joint --- T-Open 0318
 (D) Initial Shut-In 1158 Circ Sub --- T-Pulled 0548
 (E) Second Initial Flow 330 Hourly Standby --- T-Out 0757
 (F) Second Final Flow 552 Mileage 30 RT 46.50 Comments ---
 (G) Final Shut-In 1151 Sampler ---
 (H) Final Hydrostatic 1769 Straddle --- Ruined Shale Packer ---
 Shale Packer --- Ruined Packer ---
 Extra Packer --- Extra Copies ---
 Initial Open 30 Extra Recorder --- Sub Total 0
 Initial Shut-In 45 Day Standby --- Total 1196.50
 Final Flow 30 Accessibility --- MP/DST Disc't ---
 Final Shut-In 45 Sub Total 1196.50

Approved By _____ Our Representative Brannan Lonsdale

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