



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1088738

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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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## DRILL STEM TEST REPORT

Prepared For: **Charter Energy inc.**

PO Box 252  
Great Bend, KS 67530+0252

ATTN: Jim Musgrove

**Krug Allan#1**

**16-16s-13w Barton,KS**

Start Date: 2012.02.10 @ 20:03:05

End Date: 2012.02.11 @ 02:01:29

Job Ticket #: 45687                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.16 @ 12:05:08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Charter Energy inc.  
 PO Box 252  
 Great Bend, KS 67530+0252  
 ATTN: Jim Musgrove

**16-16s-13w Barton, KS**  
**Krug Allan#1**  
 Job Ticket: 45687 **DST#: 1**  
 Test Start: 2012.02.10 @ 20:03:05

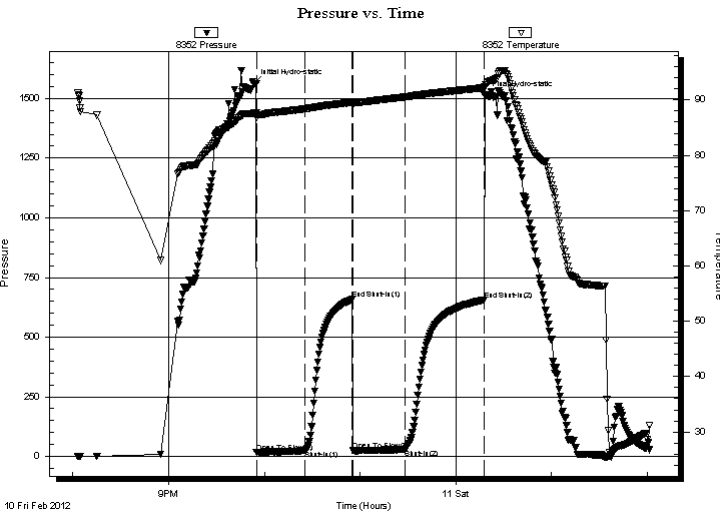
## GENERAL INFORMATION:

Formation: **LKC"C-F"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:55:00  
 Time Test Ended: 02:01:29  
 Interval: **3171.00 ft (KB) To 3234.00 ft (KB) (TVD)**  
 Total Depth: 3234.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Andy Carreira  
 Unit No: 39  
 Reference Elevations: 1952.00 ft (KB)  
 1945.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8352 Outside

Press @ Run Depth: 29.92 psig @ 3178.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.02.10 End Date: 2012.02.11 Last Calib.: 2012.02.11  
 Start Time: 20:03:05 End Time: 02:01:29 Time On Btm: 2012.02.10 @ 21:53:10  
 Time Off Btm: 2012.02.11 @ 00:18:10

TEST COMMENT: IF:(30min) Weak, 1" blow  
 IS:(30min) No Return  
 FF:(30min) Weak, 1" blow  
 FS:(45min) No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1562.98	87.58	Initial Hydro-static
2	17.29	86.89	Open To Flow (1)
33	25.00	88.42	Shut-In(1)
62	658.36	89.59	End Shut-In(1)
63	25.44	89.20	Open To Flow (2)
95	29.92	90.56	Shut-In(2)
145	655.48	92.22	End Shut-In(2)
146	1511.51	92.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	WM w/ oil slight spcks in tool	0.28

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy inc.

**16-16s-13w Barton,KS**

PO Box 252  
Great Bend, KS 67530+0252

**Krug Allan#1**

Job Ticket: 45687

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2012.02.10 @ 20:03:05

## Tool Information

Drill Pipe:	Length: 3171.00 ft	Diameter: 3.80 inches	Volume: 44.48 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 44.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3171.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	83.00 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			3152.00	
Shut In Tool	5.00			3157.00	
Hydraulic tool	5.00			3162.00	
Packer	5.00			3167.00	20.00 Bottom Of Top Packer
Packer	4.00			3171.00	
Stubb	1.00			3172.00	
Perforations	5.00			3177.00	
Change Over Sub	1.00			3178.00	
Recorder	0.00	8017	Inside	3178.00	
Recorder	0.00	8352	Outside	3178.00	
Drill Pipe	32.00			3210.00	
Change Over Sub	1.00			3211.00	
Perforations	20.00			3231.00	
Bullnose	3.00			3234.00	63.00 Bottom Packers & Anchor

**Total Tool Length: 83.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy inc.

**16-16s-13w Barton,KS**

PO Box 252  
Great Bend, KS 67530+0252

**Krug Allan#1**

Job Ticket: 45687

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2012.02.10 @ 20:03:05

## 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:

20000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	WMw / oil slight spcks in tool	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

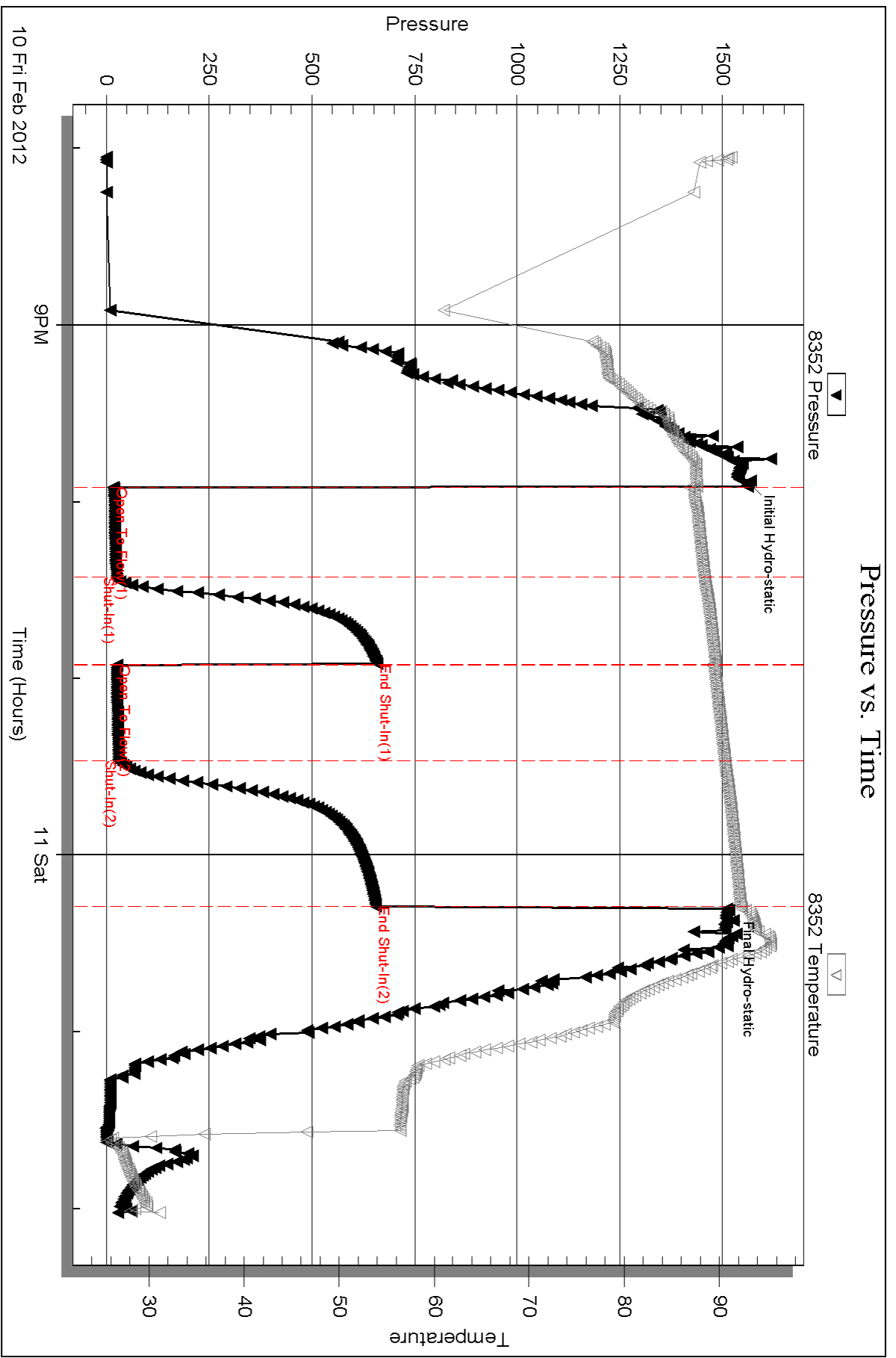
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Resistivity- .64 @ 36 deg = 20000





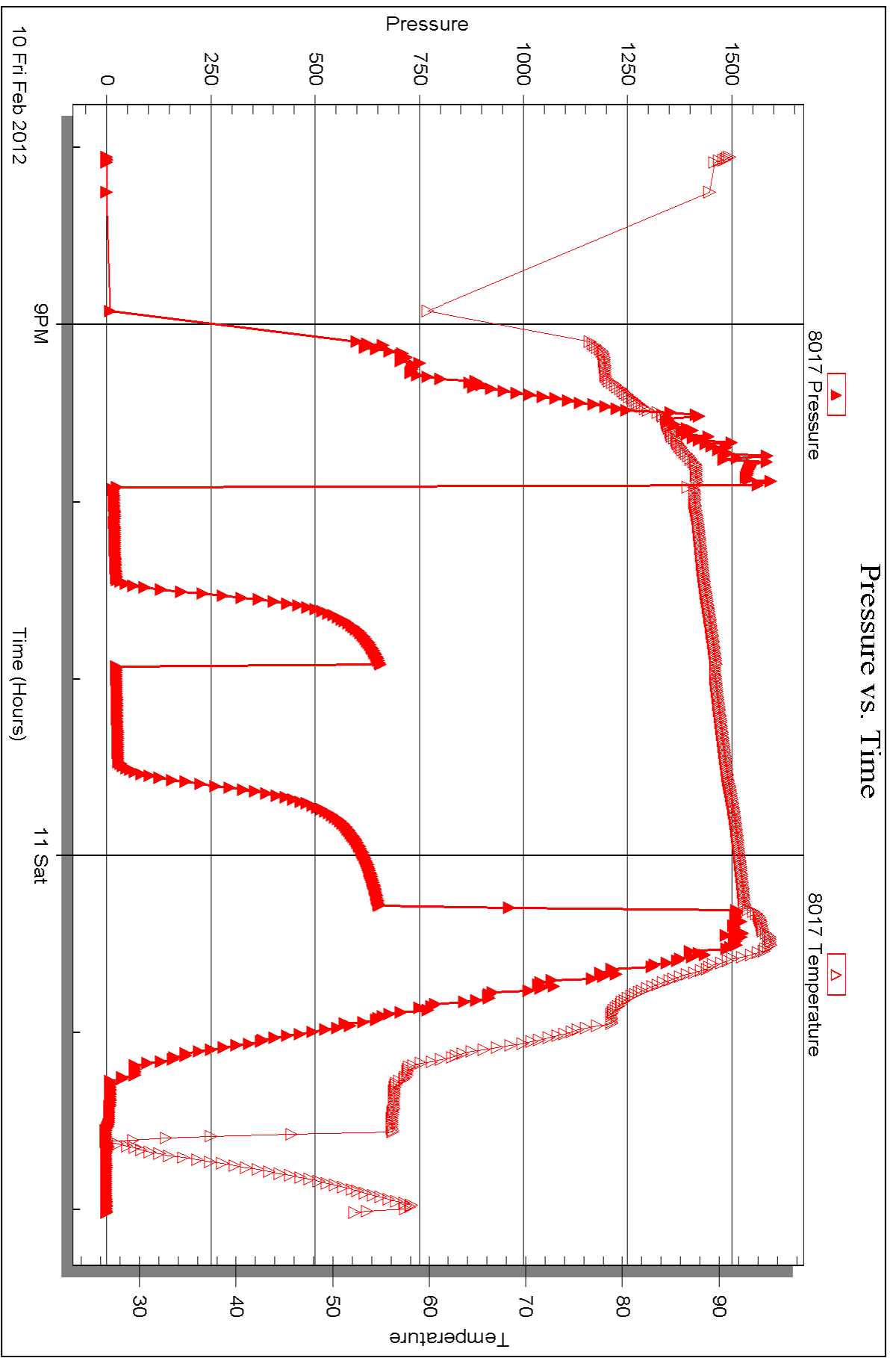
Serial #: 8017

Inside

Charter Energy Inc.

Krug Allan#1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Charter Energy inc.**

PO Box 252  
Great Bend, KS 67530+0252

ATTN: Jim Musgrove

**Krug Allan#1**

**16-16s-13w Barton,KS**

Start Date: 2012.02.11 @ 19:42:05

End Date: 2012.02.12 @ 01:46:50

Job Ticket #: 45688                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.16 @ 12:03:44



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Charter Energy inc.  
 PO Box 252  
 Great Bend, KS 67530+0252  
 ATTN: Jim Musgrove

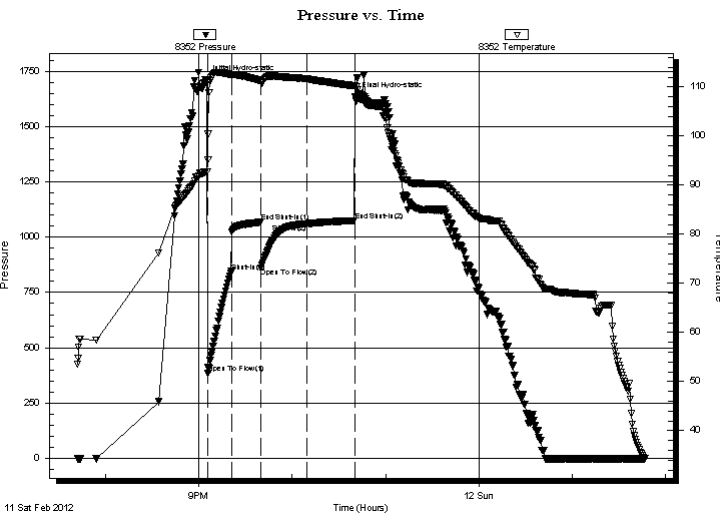
**16-16s-13w Barton, KS**  
**Krug Allan#1**  
 Job Ticket: 45688 **DST#: 2**  
 Test Start: 2012.02.11 @ 19:42:05

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 21:06:00 Tester: Andy Carreira  
 Time Test Ended: 01:46:50 Unit No: 39  
 Interval: **3377.00 ft (KB) To 3411.00 ft (KB) (TVD)** Reference Elevations: 1952.00 ft (KB)  
 Total Depth: 3411.00 ft (KB) (TVD) 1945.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 7.00 ft

**Serial #: 8352 Outside**  
 Press @ Run Depth: 1060.99 psig @ 3378.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.02.11 End Date: 2012.02.12 Last Calib.: 2012.02.12  
 Start Time: 19:42:05 End Time: 01:46:50 Time On Btm: 2012.02.11 @ 21:04:10  
 Time Off Btm: 2012.02.11 @ 22:40:30

**TEST COMMENT:** IF:(15min) BOB 30 seconds  
 IS:(20min) No Retrun  
 FF:(30min) BOB 30 seconds  
 FS:(30min) No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.48	92.71	Initial Hydro-static
2	386.36	100.40	Open To Flow (1)
17	845.34	112.53	Shut-In(1)
36	1067.98	111.25	End Shut-In(1)
36	860.67	111.14	Open To Flow (2)
66	1060.99	111.62	Shut-In(2)
96	1074.83	110.25	End Shut-In(2)
97	1633.39	110.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2330.00	Water w/ scum of oil on top of fluid	32.68

\* 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.

**16-16s-13w Barton,KS**

PO Box 252  
Great Bend, KS 67530+0252

**Krug Allan#1**

Job Ticket: 45688

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2012.02.11 @ 19:42:05

## Tool Information

Drill Pipe:	Length: 3367.00 ft	Diameter: 3.80 inches	Volume: 47.23 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 47.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3377.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 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			3358.00	
Shut In Tool	5.00			3363.00	
Hydraulic tool	5.00			3368.00	
Packer	5.00			3373.00	20.00 Bottom Of Top Packer
Packer	4.00			3377.00	
Stubb	1.00			3378.00	
Recorder	0.00	8017	Inside	3378.00	
Recorder	0.00	8352	Outside	3378.00	
Perforations	30.00			3408.00	
Bullnose	3.00			3411.00	34.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>54.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy inc.

**16-16s-13w Barton,KS**

PO Box 252  
Great Bend, KS 67530+0252

**Krug Allan#1**

Job Ticket: 45688

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2012.02.11 @ 19:42:05

## 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:

17000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2330.00	Water w/ scum of oil on top of fluid	32.684

Total Length: 2330.00 ft      Total Volume: 32.684 bbl

Num Fluid Samples: 0

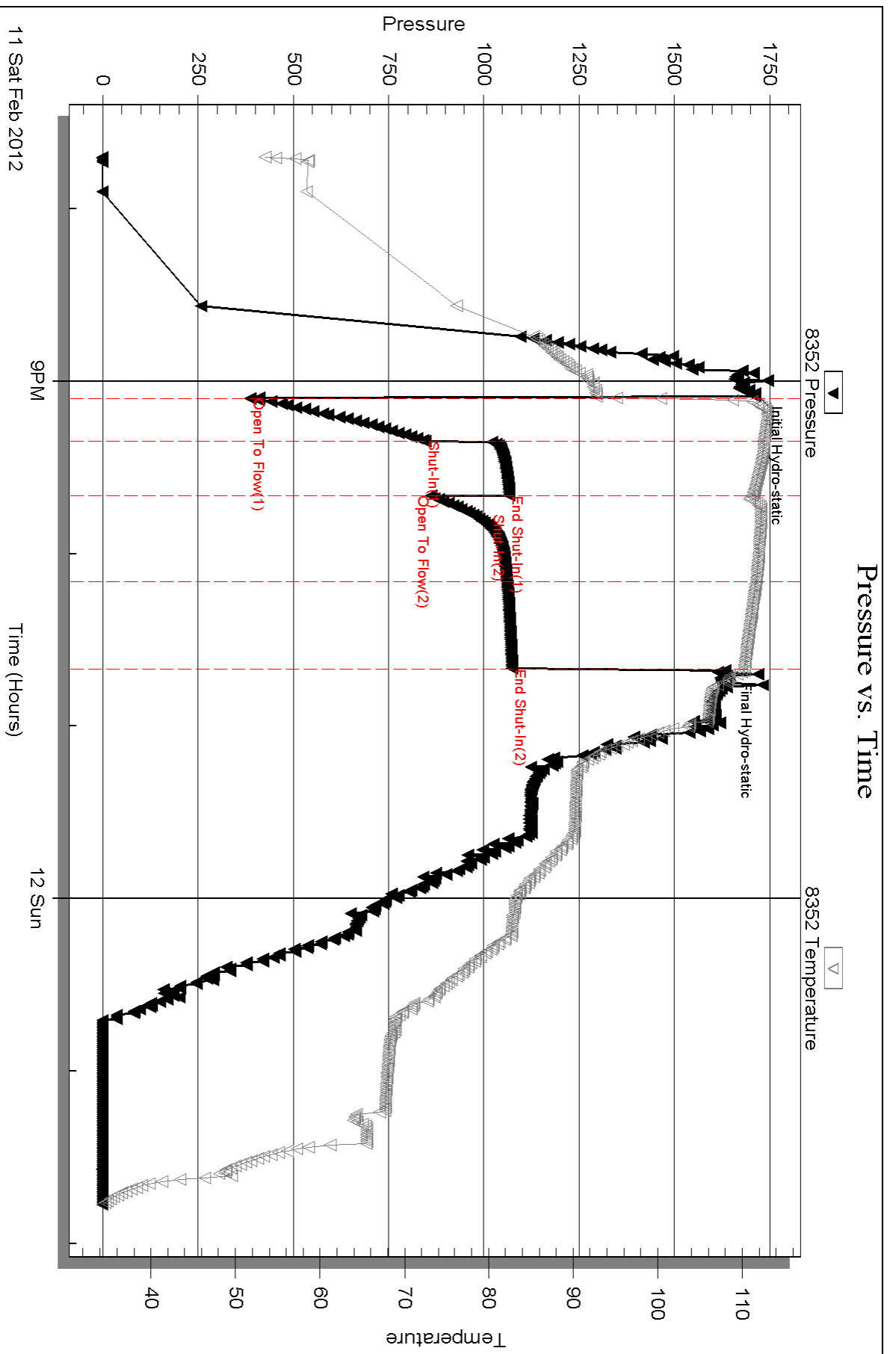
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Resistivity- .53 @ 54 deg. = 17000



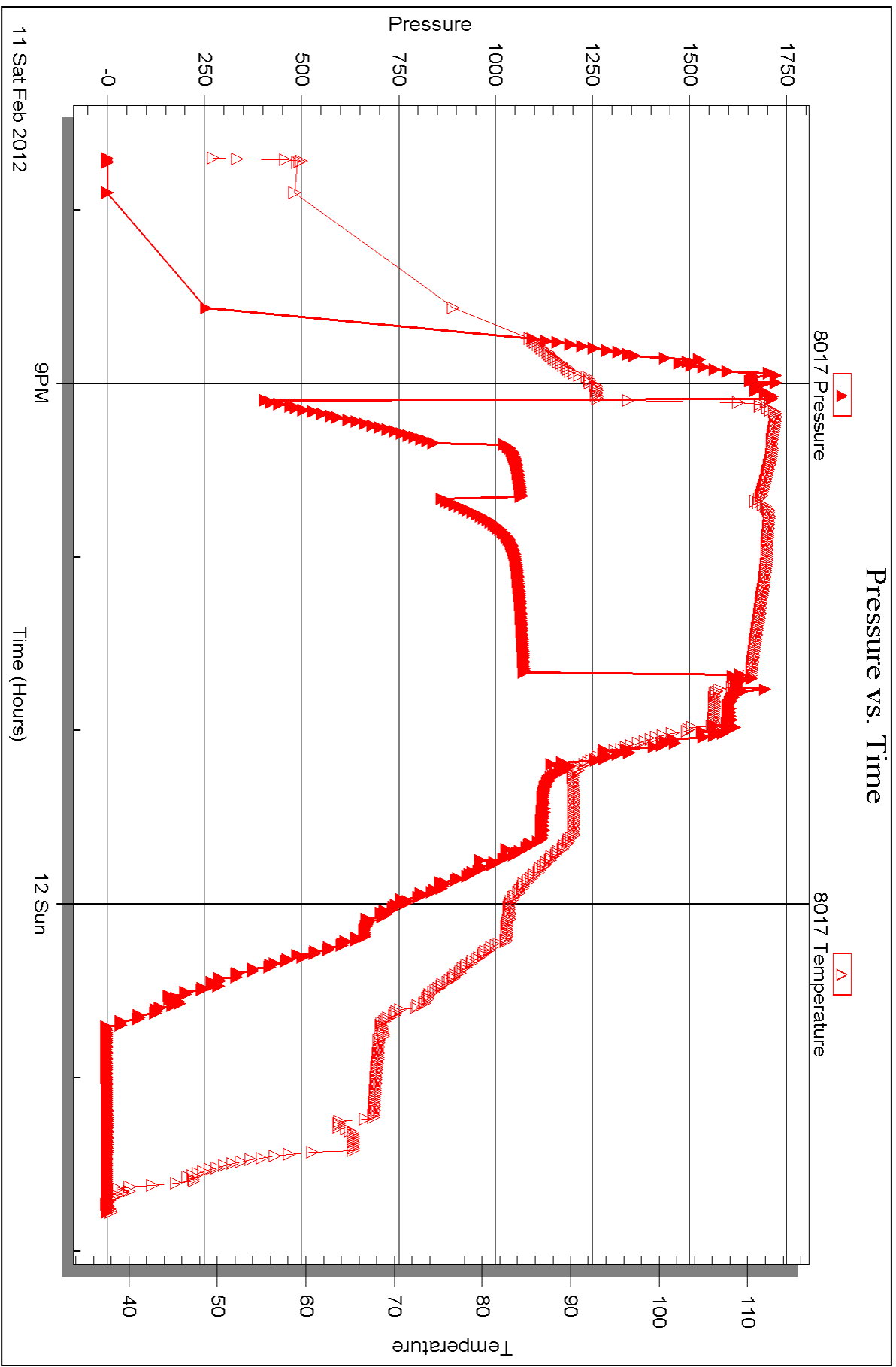
Serial #: 8017

Inside

Charter Energy Inc.

Krug Allan#1

DST Test Number: 2







## DRILL STEM TEST REPORT

Prepared For: **Charter Energy inc.**

PO Box 252  
Great Bend, KS 67530+0252

ATTN: Jim Musgrove

**Krug Allan#1**

**16-16s-13w Barton,KS**

Start Date: 2012.02.12 @ 07:42:05

End Date: 2012.02.12 @ 13:11:50

Job Ticket #: 45689                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.16 @ 12:03:12



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Charter Energy inc.  
 PO Box 252  
 Great Bend, KS 67530+0252  
 ATTN: Jim Musgrove

**16-16s-13w Barton, KS**  
**Krug Allan#1**  
 Job Ticket: 45689 **DST#: 3**  
 Test Start: 2012.02.12 @ 07:42:05

## GENERAL INFORMATION:

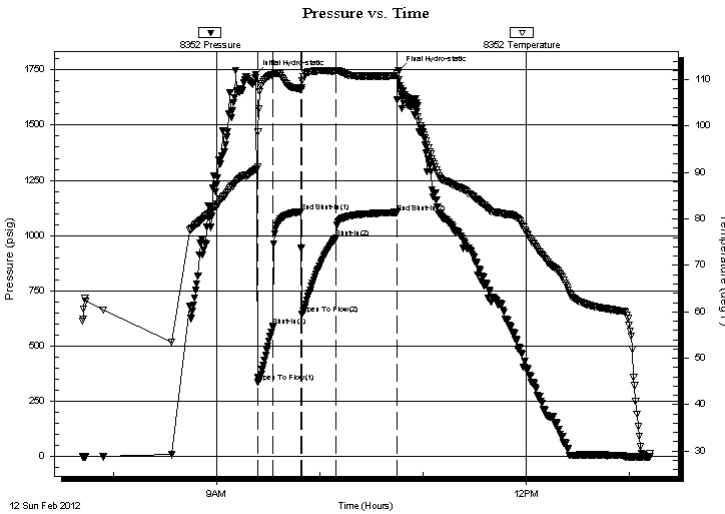
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 09:24:10  
 Tester: Andy Carreira  
 Time Test Ended: 13:11:50  
 Unit No: 39  
**Interval: 3416.00 ft (KB) To 3423.00 ft (KB) (TVD)**  
 Reference Elevations: 1952.00 ft (KB)  
 Total Depth: 3423.00 ft (KB) (TVD)  
 1945.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Poor  
 KB to GR/CF: 7.00 ft

## Serial #: 8352 Outside

Press @ Run Depth: 989.52 psig @ 3417.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.02.12 End Date: 2012.02.12 Last Calib.: 2012.02.12  
 Start Time: 07:42:05 End Time: 13:11:50 Time On Btm: 2012.02.12 @ 09:22:50  
 Time Off Btm: 2012.02.12 @ 10:45:50

**TEST COMMENT:** IF:(10min) BOB immediately  
 IS:(15min) No Return  
 FF:(20min) BOB 30 seconds  
 FS:(30min) No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1730.68	90.62	Initial Hydro-static
2	337.73	98.78	Open To Flow (1)
10	592.00	111.15	Shut-In(1)
27	1108.12	107.97	End Shut-In(1)
27	643.16	108.34	Open To Flow (2)
47	989.52	111.97	Shut-In(2)
83	1105.21	110.95	End Shut-In(2)
83	1747.89	110.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1800.00	OSW o=tr w=100%	25.25
240.00	OCMV o=5% m=20% w=75%	3.37
75.00	OCMV o=10% m=30% w=60%	1.05

\* 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.

**16-16s-13w Barton,KS**

PO Box 252  
Great Bend, KS 67530+0252

**Krug Allan#1**

Job Ticket: 45689

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2012.02.12 @ 07:42:05

## Tool Information

Drill Pipe:	Length: 3398.00 ft	Diameter: 3.80 inches	Volume: 47.67 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 47.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3416.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	27.00 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			3397.00	
Shut In Tool	5.00			3402.00	
Hydraulic tool	5.00			3407.00	
Packer	5.00			3412.00	20.00 Bottom Of Top Packer
Packer	4.00			3416.00	
Stubb	1.00			3417.00	
Recorder	0.00	8017	Inside	3417.00	
Recorder	0.00	8352	Outside	3417.00	
Perforations	3.00			3420.00	
Bullnose	3.00			3423.00	7.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>27.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy inc.

**16-16s-13w Barton,KS**

PO Box 252  
Great Bend, KS 67530+0252

**Krug Allan#1**

Job Ticket: 45689

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2012.02.12 @ 07:42:05

## 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:

24000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1800.00	OSW o=tr w=100%	25.249
240.00	OCMW o=5% m=20% w=75%	3.367
75.00	OCMW o=10% m=30% w=60%	1.052

Total Length: 2115.00 ft      Total Volume: 29.668 bbl

Num Fluid Samples: 0

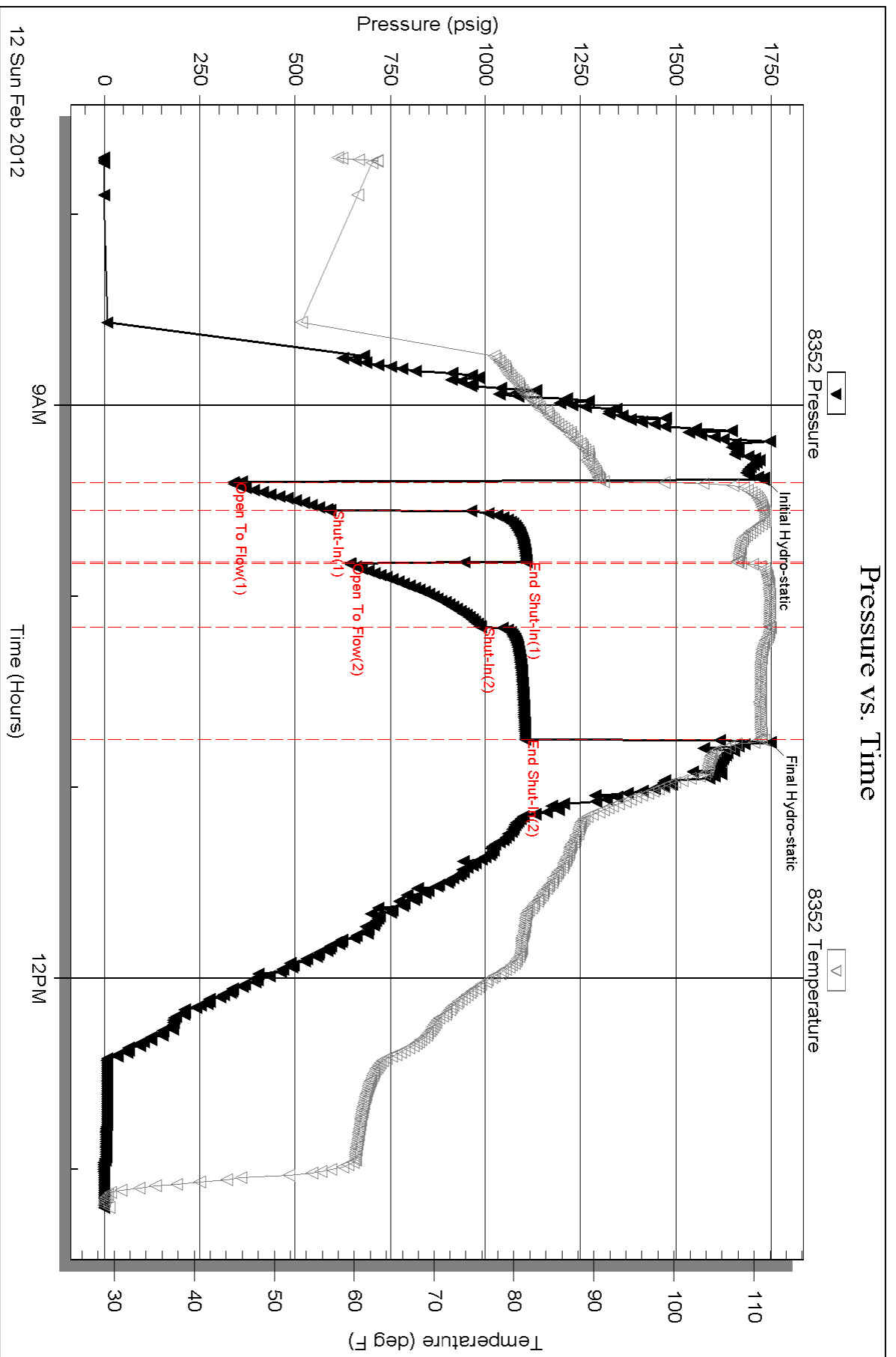
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Resistivity- .49 @ 43 deg = 24000



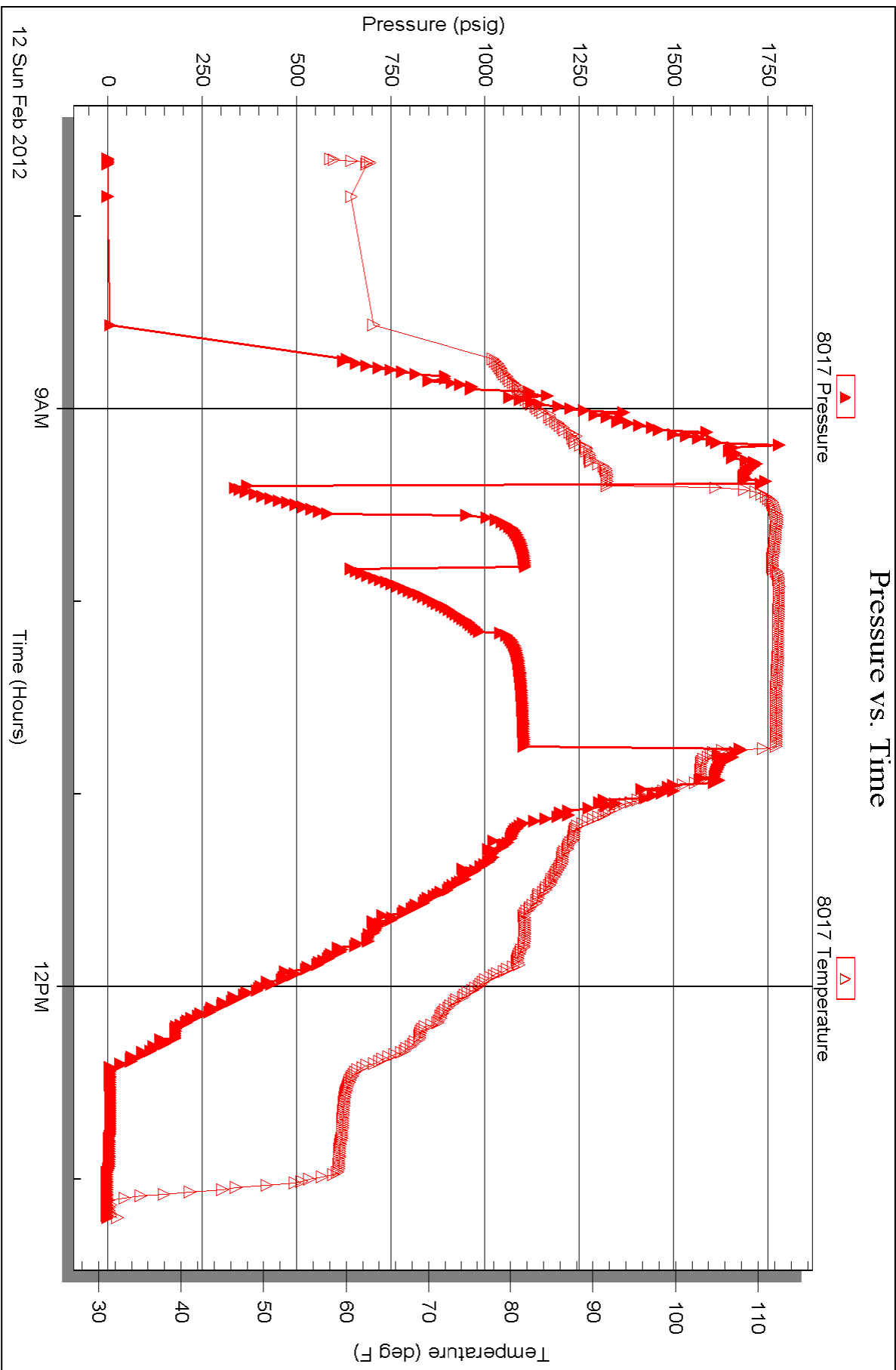
Serial #: 8017

Inside

Charter Energy Inc.

Krug Allan#1

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
FEB 13 2012

## Test Ticket

NO. 45687

Well Name & No. Krug Allan #1 BY: \_\_\_\_\_ Test No. 1 Date 2-10-12  
 Company Charter Energy Inc. Elevation 1952 KB 1945 GL \_\_\_\_\_  
 Address PO Box 252 Great Bend Ks. 67530+0252  
 Co. Rep / Geo. Jim Masgrove Rig Royal #2  
 Location: Sec. 16 Twp. 16S Rge. 13W Co. Barton State Ks

Interval Tested 3171 - 3234 Zone Tested LKC<sup>W</sup>C-F  
 Anchor Length 63' Drill Pipe Run 3171 Mud Wt. 9.1  
 Top Packer Depth 3166 Drill Collars Run 0 Vis 53  
 Bottom Packer Depth 3171 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3234 Chlorides 7000 ppm System LCM 1\*

Blow Description IF: WEAK 1" blow  
ISL: NO RETURN  
FF: WEAK 1" blow  
FSL: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>W M w/slight oil specks in tool</u>			<u>30%</u>	<u>70%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 92 Gravity API RW .64 @ 36° F Chlorides 20000 ppm

(A) Initial Hydrostatic 1562  Test @ 1125 T-On Location 16:09  
 (B) First Initial Flow 17  Jars T-Started 20:03  
 (C) First Final Flow 25  Safety Joint T-Open 21:55  
 (D) Initial Shut-In 658  Circ Sub T-Pulled 00:10  
 (E) Second Initial Flow 25  Hourly Standby @ 3/4 hrs 75 T-Out 02:02  
 (F) Second Final Flow 29  Mileage 94 RTK 131.00 Comments \_\_\_\_\_  
 (G) Final Shut-In 655  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1511  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 45 Sub Total 0  
 Total 1321.00  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1331.00

Approved By \_\_\_\_\_

Our Representative Andy Co

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.

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## Test Ticket

NO. 45688

Well Name & No. Krug Allan #1 BY: \_\_\_\_\_ Test No. 2 Date 2-11-12  
 Company Charta Energy Inc Elevation 1952 KB 1945 GL  
 Address PO BOX 252 GREAT BEND KS 67530+0252  
 Co. Rep / Geo. Jim Musgrave Rig Royal #2  
 Location: Sec. 16 Twp. 16S Rge. 13W Co. BARTON State Ks

Interval Tested 3377-3411 Zone Tested Arbuckle  
 Anchor Length 34' Drill Pipe Run 3367 Mud Wt. 9.2  
 Top Packer Depth 3372 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3377 Wt. Pipe Run 0 WL 9.2  
 Total Depth 3411 Chlorides 7100 ppm System LCM 1

Blow Description FP: BOB, 30 seconds  
ISDI No Return  
FP: BOB 30 seconds  
FSDI No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2330</u>	<u>Water w/ scum of oil on top of fluid</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 2330' BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW .53 @ 54 °F Chlorides 17000 ppm

(A) Initial Hydrostatic 1712  Test 1125' T-On Location 1903  
 (B) First Initial Flow 386  Jars \_\_\_\_\_ T-Started 19:42  
 (C) First Final Flow 845  Safety Joint \_\_\_\_\_ T-Open 21:05  
 (D) Initial Shut-In 1067  Circ Sub \_\_\_\_\_ T-Pulled 22:40  
 (E) Second Initial Flow 860  Hourly Standby \_\_\_\_\_ T-Out 01:47  
 (F) Second Final Flow 1060  Mileage 94ET 131.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 1074  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1633  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30 15  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 20  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1256.60  
 Final Shut-In 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1256.60

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

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RECEIVED  
FEB 13 2012

## Test Ticket

NO. 45689

Well Name & No. Krug Allan Test No. 3 Date 2-12-12  
 Company Cherokee Energy Inc Elevation 1952 KB 1945 GL  
 Address PO Box 252 Great Bend Ks 67530-0252  
 Co. Rep / Geo. Jim Musgrove Rig Royal #2  
 Location: Sec. 16 Twp. 16s Rge. 13W Co. Barton State Ks

Interval Tested 3416 - 3423 Zone Tested Debukle  
 Anchor Length 7' Drill Pipe Run 3398 Mud Wt. 9.2  
 Top Packer Depth 3411 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3416 Wt. Pipe Run 0 WL 9.2  
 Total Depth 3423 Chlorides 7100 ppm System LCM 1  
 Blow Description IF: BOB immediately  
TSI: No Return  
FF: BOB, 30 seconds  
FST: No Return

Rec	Feet of	%gas	%oil	%water	%mud
75'	OCMW		10%	60%	30%
240'	OCMW		5%	75%	20%
1800'	OSW		TR	100%	

Rec Total 2115' BHT 110° Gravity API RW .49 @ 43° F Chlorides 24000 ppm  
 Test 1125' T-On Location 08:06  
 Jars T-Started 07:42  
 Safety Joint T-Open 09:23  
 Circ Sub T-Pulled 10:38  
 Hourly Standby 14hr 125' T-Out 13:12  
 Mileage 940TC 131.60 Comments \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1381.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1381.60

Initial Open 10  
 Initial Shut-In 15  
 Final Flow 20  
 Final Shut-In 30

Approved By \_\_\_\_\_

Our Representative [Signature]

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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. 620

Date <i>2-7-12</i>	Sec. <i>16</i>	Twp. <i>16</i>	Range <i>13</i>	County <i>Barton</i>	State <i>KS</i>	On Location	Finish <i>9:45 AM</i>
Lease <i>Kroyal Allen</i>	Well No. <i>1</i>		Location <i>Sunk in VAE Unit</i>				

Contractor <i>Kroyal #2</i>	Owner
Type Job <i>Surface</i>	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 <i>12 1/4</i>	T.D. <i>452</i>	Charge To <i>Charter Energy</i>
Csg. <i>8 5/8</i>	Depth <i>451</i>	
Tbg. Size	Depth	Street
Tool	Depth	City State
Cement Left in Csg. <i>20</i>	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line	Displace <i>2 7/8 BBL</i>	Cement Amount Ordered <i>190 com 3 1/2 x L 2 1/2 bbl</i>

EQUIPMENT		
Pumptrk <i>5</i>	No. Cementer <i>Chris</i>	Common
	Helper	
Bulktrk	No. Driver <i>Brett</i>	Poz. Mix
	Driver	
Bulktrk <i>3</i>	No. Driver <i>Michael</i>	Gel.
	Driver	

JOB SERVICES & REMARKS		
Remarks:		Calcium
Rat Hole		Hulls
Mouse Hole		Salt
Centralizers		Flowseal
Baskets		Kol-Seal
D/V or Port Collar		Mud CLR 48
<i>8 5/8 on bottom. Est Circulation</i>		CFL-117 or CD110 CAF 38
<i>Mix 190 SIC &amp; Displace</i>		Sand
<i>Cement Circulated</i>		Handling
		Mileage

FLOAT EQUIPMENT		
		Guide Shoe
		Centralizer
	<i>8 5/8 Sauge</i>	Baskets
		AFU Inserts
		Float Shoe
		Latch Down
		Pumptrk Charge
		Mileage

Signature <i>Budig</i>	Tax
	Discount
	Total Charge





CHARGE TO: Charter Energy  
 ADDRESS: \_\_\_\_\_  
 CITY STATE ZIP CODE: \_\_\_\_\_

TICKET  
 No 21573

PAGE 1 OF 2

SERVICE LOCATIONS: 1. WELL/PROJECT NO. 41 LEASE Krog/Alan COUNTY/PARISH Bossier STATE LA CITY Sobank DATE 13 Feb 12 OWNER  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR \_\_\_\_\_ RIG NAME NO. \_\_\_\_\_ ORDER NO. \_\_\_\_\_  
 3. WELL TYPE 01 WELL CATEGORY Development JOB PURPOSE Convent long string WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION 16-165-13W  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					TRK 114	60	mi				6.00	360.00
578					Pump Charge	1	ea				1500.00	1500.00
402					Contraizer	5 1/2	in			6.00	7.00	420.00
403					Convent Basket	1	ea			5 1/2 in	250.00	250.00
406					Catch down Plug & bottles	5 1/2	in			1 ea	250.00	250.00
419					Rotating head central	5 1/2	in			1 ea	200.00	200.00
407					Inset phosphate w/ AROEIL	5 1/2	in			1 ea	350.00	350.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.  
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS  
 X DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  
 A.M.  P.M.

**REMIT PAYMENT TO:**  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

**SURVEY**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO

WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL \_\_\_\_\_ TAX \_\_\_\_\_ TOTAL \_\_\_\_\_

SWIFT OPERATOR \_\_\_\_\_ APPROVAL \_\_\_\_\_  
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 13 Feb 12 PAGE NO. 1

CUSTOMER *Winters* WELL NO. *\*1* LEASE *Krug/Allan* JOB TYPE *connect long string* TICKET NO. *21573*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sbs EA-2 w/ 4# Floccul
								5 1/2" 14# casing 3496' x p oc TD: 3500
								Cont 1, 3, 5, 7, 9, 11 Bnl + 7 shot + 42.35
	0100							on loc Tex 114
	0330							start 5 1/2" 14# casing in well
	0500							Drop ball - circulate - <del>rotate</del>
	0525	4 3/4	12			200		Pump 500 gal mud flush
		4 3/4	20			200		Pump 200 bbl KCL flush
	0535		7					Plug RH - MH <del>205 lb</del> - <del>205 lb</del>
	0540	4 3/4	35			250		Mix SA-2 cement 125 sbs @ 15.3 ppg
								Drop batch down plug
								wash out pump & line
	0553	6 3/4				200		Displace plug
		6 3/4	75			800		
	0610	6 3/4	84			1500		Land Plug
	0615							Release pressure to truck - dried up
	0620							wash truck
								Rack up
	0630							job complete
								Flubs
								Blow Slow & Care



