



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1215587  
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: \_\_\_\_\_

1215587

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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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. 231

Date 5-15-14	Sec. 2	Twp. 22	Range 15	County Pawnee	State KS	On Location	Finish 7:45AM
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Location Radium Rd & K-19, 3W, 4N, E2

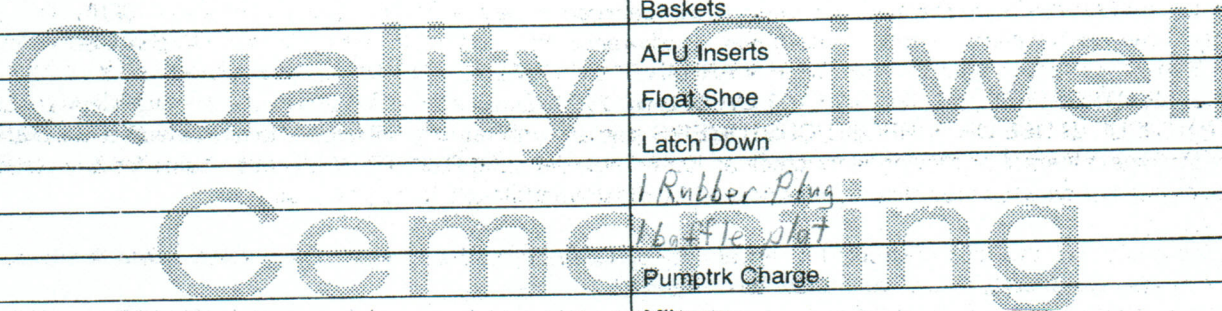
Lease <u>Blackwell A</u>	Well No. <u>1</u>	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor <u>Royal</u>		
Type Job <u>Surface</u>		
Hole Size <u>12 1/4</u>	T.D. <u>938</u>	Charge To <u>Charter Energy</u>
Csg. <u>8 5/8</u>	Depth <u>938</u>	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.	Shoe Joint <u>35.70</u>	Cement Amount Ordered <u>450sx 60/40, 3%cc, 2%gel</u>
Meas Line	Displace <u>57.38661</u>	

EQUIPMENT		Common
Pumptrk <u>17</u>	No. Cementer Helper <u>Lonnie W</u>	Poz. Mix
Bulktrk <u>4</u>	No. Driver <u>Rick</u>	Gel.
Bulktrk <u>Ph</u>	No. Driver <u>Travis</u>	Calcium

JOB SERVICES & REMARKS		Hulls
Remarks: <u>Cement did circulate</u>		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
		Handling
		Mileage

FLOAT EQUIPMENT		Tax
	Guide Shoe	
	Centralizer	
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	
	<u>1 Rubber Plug</u>	
	<u>160# float</u>	
	Pumptrk Charge	
	Mileage	
		Discount
		Total Charge

X Signature D. Roy Buder







CHARGE TO: Charles Energy  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 262221  
 PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Amo City KS WELL/PROJECT NO. A-1 LEASE Buckwell COUNTY/PARISH France STATE KS CITY Bellevue DATE 2/27/14 OWNER  
 2. TICKET TYPE  SERVICE CONTRACTOR royal RIG NAME/NO. \_\_\_\_\_ ORDER NO. \_\_\_\_\_  
 3.  SALES WELL TYPE oil WELL CATEGORY Development JOB PURPOSE convert long string DELIVERED TO location WELL PERMIT NO. \_\_\_\_\_  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK W/	70	mi			6.00	420.00
578		1			Pump Charge	1	ea			1500.00	1500.00
402		1			Centralizer	5 1/2	in		61.00	79.00	420.00
403		1			Convent Basket	5 1/2	in		1.00	300.00	300.00
406		1			Latch down Plus 5 bottle	5 1/2	in		1.00	275.00	275.00
407		1			Insert Flat shoe w/ arrow	5 1/2	in		1.00	375.00	375.00
195		1			conversion fee				2.00	250.00	250.00

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

DATE SIGNED \_\_\_\_\_ TIME SIGNED 3:00  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?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?

AGRE UN- DIS-  
 DECIDED AGREE

PAGE TOTAL 1  
 3540.00  
 5638.00  
 9178.00  
 Subtotal  
 9178.00  
 P.A.W.H.C. TAX 8.15%  
 510.80  
 TOTAL 9688.80

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: \_\_\_\_\_ APPROVAL

SWIFT OPERATOR \_\_\_\_\_

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!







JOB LOG

SWIFT Services, Inc.

DATE 22 MAY 14 PAGE NO. 1

CUSTOMER Charke Energy WELL NO. A#1 LEASE Blackwell JOB TYPE cemnt long string TICKET NO. 26221

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2 cement w/ 1/4" floater 5 1/2" x 15.5" casing 3941' TD = 3945 shoe pt 21' Centralize 1, 2, 3, 4, 6, 8 Bisset #2
	1050							on loc TRK 114
	1105							start 5 1/2" x 15.5" casing in well
23 MAY	1230							Drop ball - circulate
	1:40	4	12			200		Pump 500 gal mud flush
		4	20			208		Pump 20 binl KCL flush
	1:45		7					Plug RH - MH <del>30 sk</del> - <del>20 sk</del>
	1:52	4 1/2	35			200		Mix EA-2 cement <del>125 sk</del> @ 15.3 ppg
								Drop latch down plug
								wash out pump & lines
	2:10	6				200		Displace plug
		6	80			650		
	2:30	6	93			1500		Land plug
	2:35							Release pressure to truck - dried up
	2:38							wash truck
								Rack up
	3:20							job complete
								Thank Blaine, Flint & Isaac



## DRILL STEM TEST REPORT

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

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbolt

### **Blackwell A #1**

#### **2-22s-15w Pawnee,KS**

Start Date: 2014.05.18 @ 23:50:07

End Date: 2014.05.19 @ 07:54:07

Job Ticket #: 52019                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.27 @ 10:55:26



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**2-22s-15w Pawnee, KS**  
**Blackwell A #1**  
Job Ticket: 52019 **DST#: 1**  
Test Start: 2014.05.18 @ 23:50:07

## GENERAL INFORMATION:

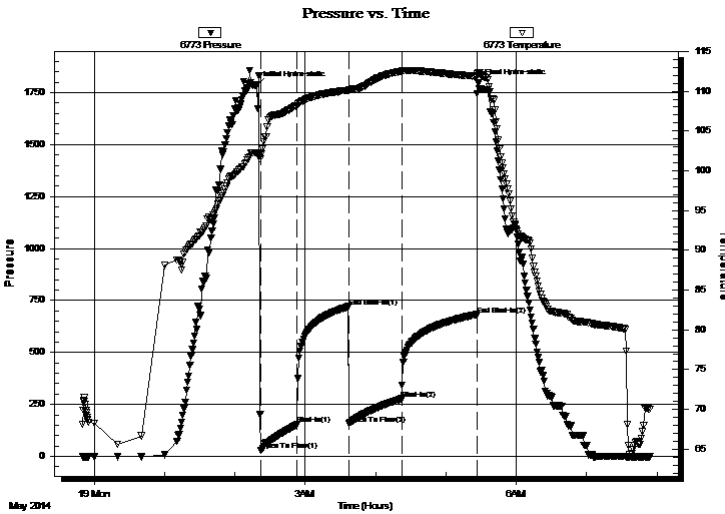
Formation: **Lansing "H"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:22:22  
Time Test Ended: 07:54:07  
Interval: **3640.00 ft (KB) To 3680.00 ft (KB) (TVD)**  
Total Depth: 3680.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1977.00 ft (KB)  
1971.00 ft (CF)  
KB to GR/CF: 6.00 ft

## Serial #: 6773 Outside

Press@RunDepth: 277.14 psig @ 3641.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.05.18 End Date: 2014.05.19 Last Calib.: 2014.05.19  
Start Time: 23:50:12 End Time: 07:54:06 Time On Btm: 2014.05.19 @ 02:18:37  
Time Off Btm: 2014.05.19 @ 05:27:37

TEST COMMENT: IF: Strong blow . B.O.B. in 7 mins.  
IS: Weak blow . Surf., to 1/2".  
FF: Strong blow . B.O.B. in 9 mins.  
FS: Weak blow . Surf., to 1/2".

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1785.00	102.25	Initial Hydro-static
4	30.63	102.10	Open To Flow (1)
34	152.46	108.22	Shut-In(1)
79	720.36	110.09	End Shut-In(1)
79	157.17	110.06	Open To Flow (2)
124	277.14	112.50	Shut-In(2)
188	681.25	111.89	End Shut-In(2)
189	1795.14	112.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCW 5%o 10%m 85%w (Slr Trc Oil)	1.74
310.00	OCMW 5%o 10%m 85%w	4.35
62.00	MWOCG 8%o 10%g 40%m 42%w	0.87
62.00	MWOCG 5%w 20%m 30%w 45%o	0.87
0.00	310' G.I.P. 100%g	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy, Inc.

**2-22s-15w Pawnee,KS**

PO Box 252  
Great Bend, KS 67530

**Blackwell A #1**

Job Ticket: 52019

**DST#: 1**

ATTN: Kurt Talbolt

Test Start: 2014.05.18 @ 23:50:07

## Tool Information

Drill Pipe:	Length: 3648.00 ft	Diameter: 3.80 inches	Volume: 51.17 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 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: 51.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3640.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	60.00 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			3621.00	
Shut In Tool	5.00			3626.00	
Hydraulic tool	5.00			3631.00	
Packer	4.00			3635.00	20.00 Bottom Of Top Packer
Packer	5.00			3640.00	
Stubb	1.00			3641.00	
Recorder	0.00	6719	Outside	3641.00	
Recorder	0.00	6773	Outside	3641.00	
Perforations	2.00			3643.00	
Change Over Sub	1.00			3644.00	
Drill Pipe	32.00			3676.00	
Change Over Sub	1.00			3677.00	
Bullnose	3.00			3680.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy, Inc.

**2-22s-15w Pawnee,KS**

PO Box 252  
Great Bend, KS 67530

**Blackwell A #1**

Job Ticket: 52019

**DST#: 1**

ATTN: Kurt Talbolt

Test Start: 2014.05.18 @ 23:50:07

## 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:

75000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	MCW 5%o 10%m 85%w (Slit Trc Oil)	1.739
310.00	OCMW 5%o 10%m 85%w	4.348
62.00	MWOCG 8%o 10%g 40%m 42%w	0.870
62.00	MWOCG 5%w 20%m 30%w 45%o	0.870
0.00	310' G.I.P. 100%g	0.000

Total Length: 558.00 ft      Total Volume: 7.827 bbl

Num Fluid Samples: 0

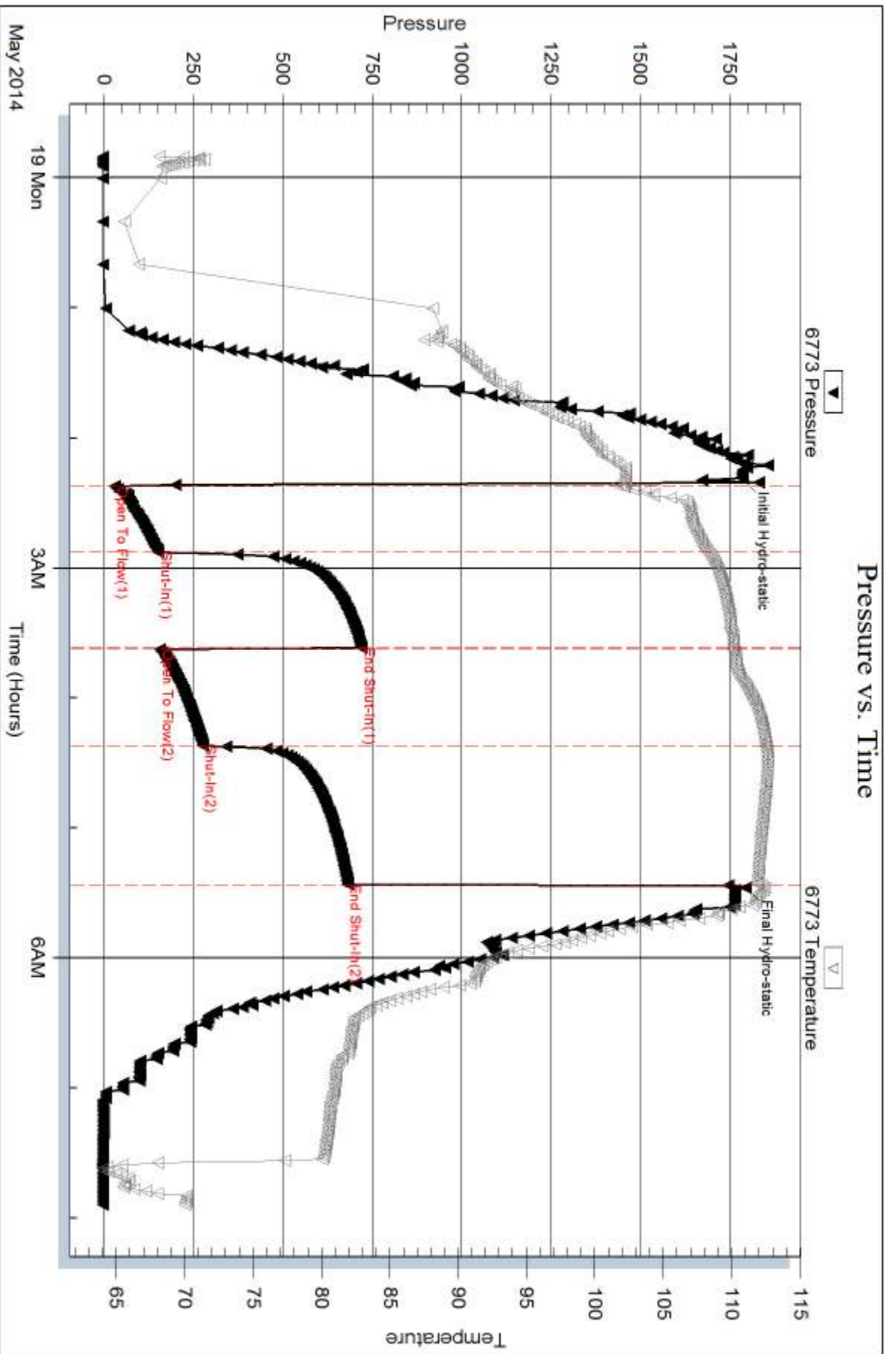
Num Gas Bombs: 0

Serial #: none

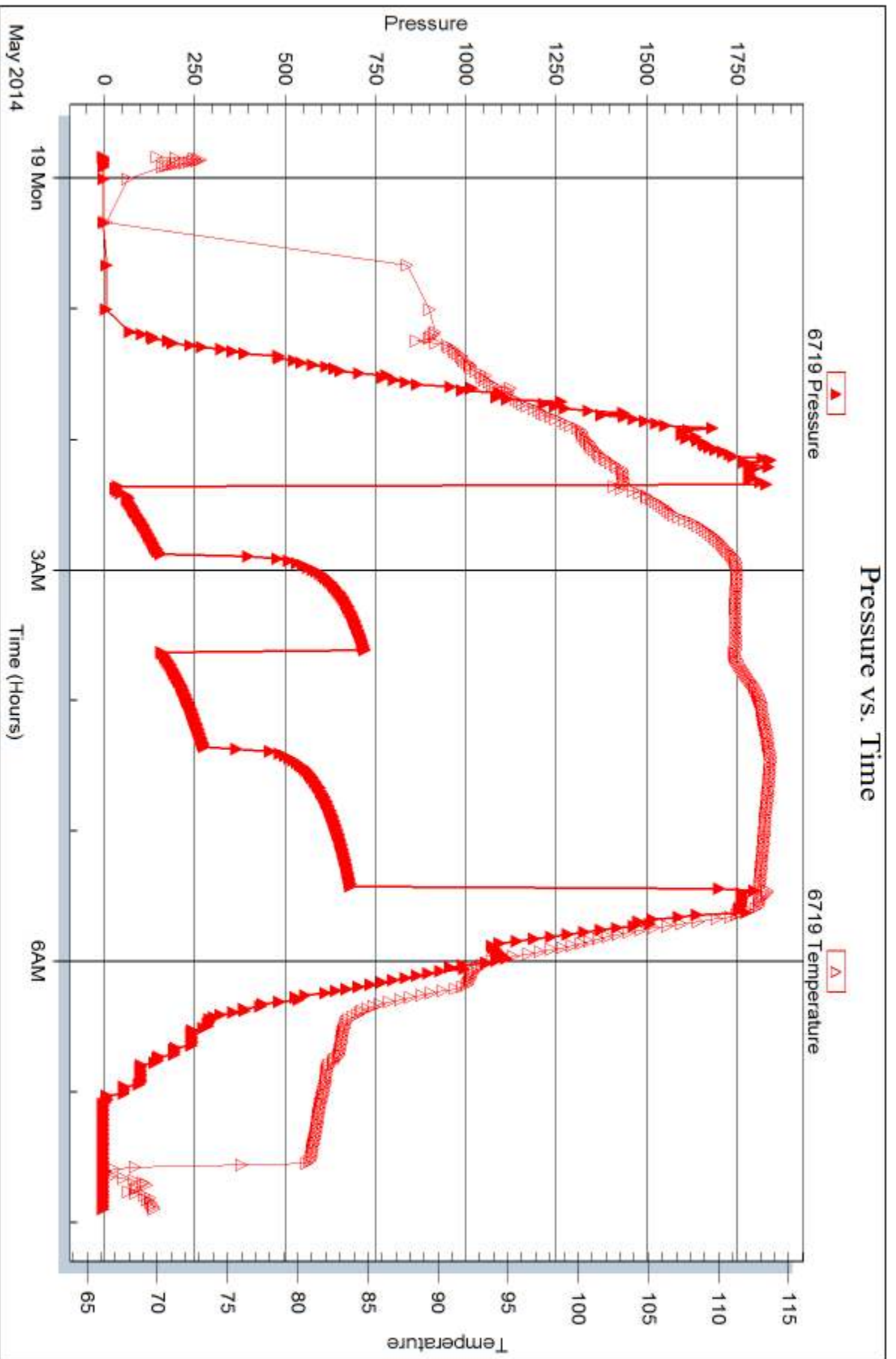
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11@ 66 degrees. = 75,000









## DRILL STEM TEST REPORT

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

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbolt

### **Blackwell A #1**

#### **2-22s-15w Pawnee,KS**

Start Date: 2014.05.19 @ 23:36:11

End Date: 2014.05.20 @ 05:31:41

Job Ticket #: 52020                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.27 @ 10:55:04





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

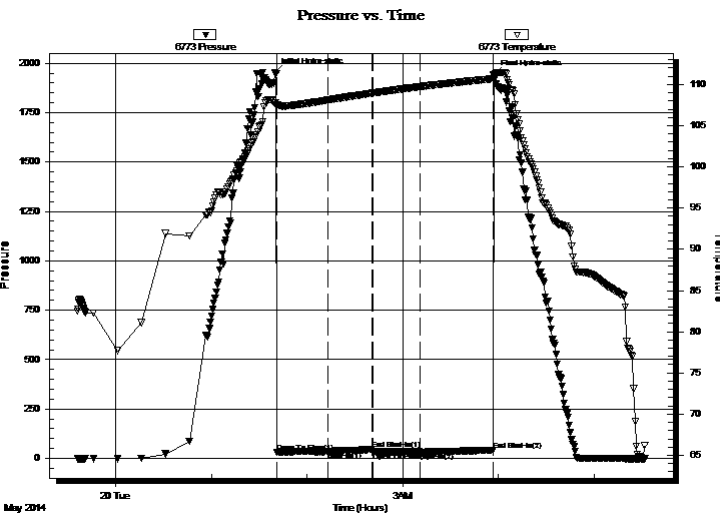
**2-22s-15w Pawnee, KS**  
**Blackwell A #1**  
Job Ticket: 52020 **DST#: 2**  
Test Start: 2014.05.19 @ 23:36:11

## GENERAL INFORMATION:

Formation: **Viola**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 01:41:11  
Time Test Ended: 05:31:41  
Interval: **3826.00 ft (KB) To 3875.00 ft (KB) (TVD)**  
Total Depth: 3875.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Matt Smith  
Unit No: 53  
Reference Elevations: 1977.00 ft (KB)  
1971.00 ft (CF)  
KB to GR/CF: 6.00 ft

**Serial #: 6773 Outside**  
Press@RunDepth: 30.77 psig @ 3827.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.05.19 End Date: 2014.05.20 Last Calib.: 2014.05.20  
Start Time: 23:36:16 End Time: 05:31:40 Time On Btm: 2014.05.20 @ 01:39:56  
Time Off Btm: 2014.05.20 @ 03:57:11

TEST COMMENT: IF: Weak blow . Surf., - 1".  
IS: No blow .  
FF: No blow .  
FS: No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1953.08	107.81	Initial Hydro-static
2	31.48	107.29	Open To Flow (1)
33	34.94	108.10	Shut-In(1)
61	44.67	108.94	End Shut-In(1)
62	30.45	108.95	Open To Flow (2)
91	30.77	109.73	Shut-In(2)
137	41.14	110.69	End Shut-In(2)
138	1942.11	111.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	DRLG Mud 100%m	0.14

\* 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.

**2-22s-15w Pawnee,KS**

PO Box 252  
Great Bend, KS 67530

**Blackwell A #1**

Job Ticket: 52020

**DST#: 2**

ATTN: Kurt Talbolt

Test Start: 2014.05.19 @ 23:36:11

## Tool Information

Drill Pipe:	Length: 3838.00 ft	Diameter: 3.80 inches	Volume: 53.84 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 58000.00 lb
			<u>Total Volume: 53.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3826.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	69.00 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			3807.00	
Shut In Tool	5.00			3812.00	
Hydraulic tool	5.00			3817.00	
Packer	4.00			3821.00	20.00 Bottom Of Top Packer
Packer	5.00			3826.00	
Stubb	1.00			3827.00	
Recorder	0.00	6719	Outside	3827.00	
Recorder	0.00	6773	Outside	3827.00	
Perforations	3.00			3830.00	
Change Over Sub	1.00			3831.00	
Drill Pipe	32.00			3863.00	
Change Over Sub	1.00			3864.00	
Perforations	8.00			3872.00	
Bullnose	3.00			3875.00	49.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**2-22s-15w Pawnee,KS**  
**Blackwell A #1**  
Job Ticket: 52020      **DST#: 2**  
Test Start: 2014.05.19 @ 23:36:11

### 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:	6800 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.56 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6800.00 ppm			
Filter Cake: 0.20 inches			

### Recovery Information

Recovery Table

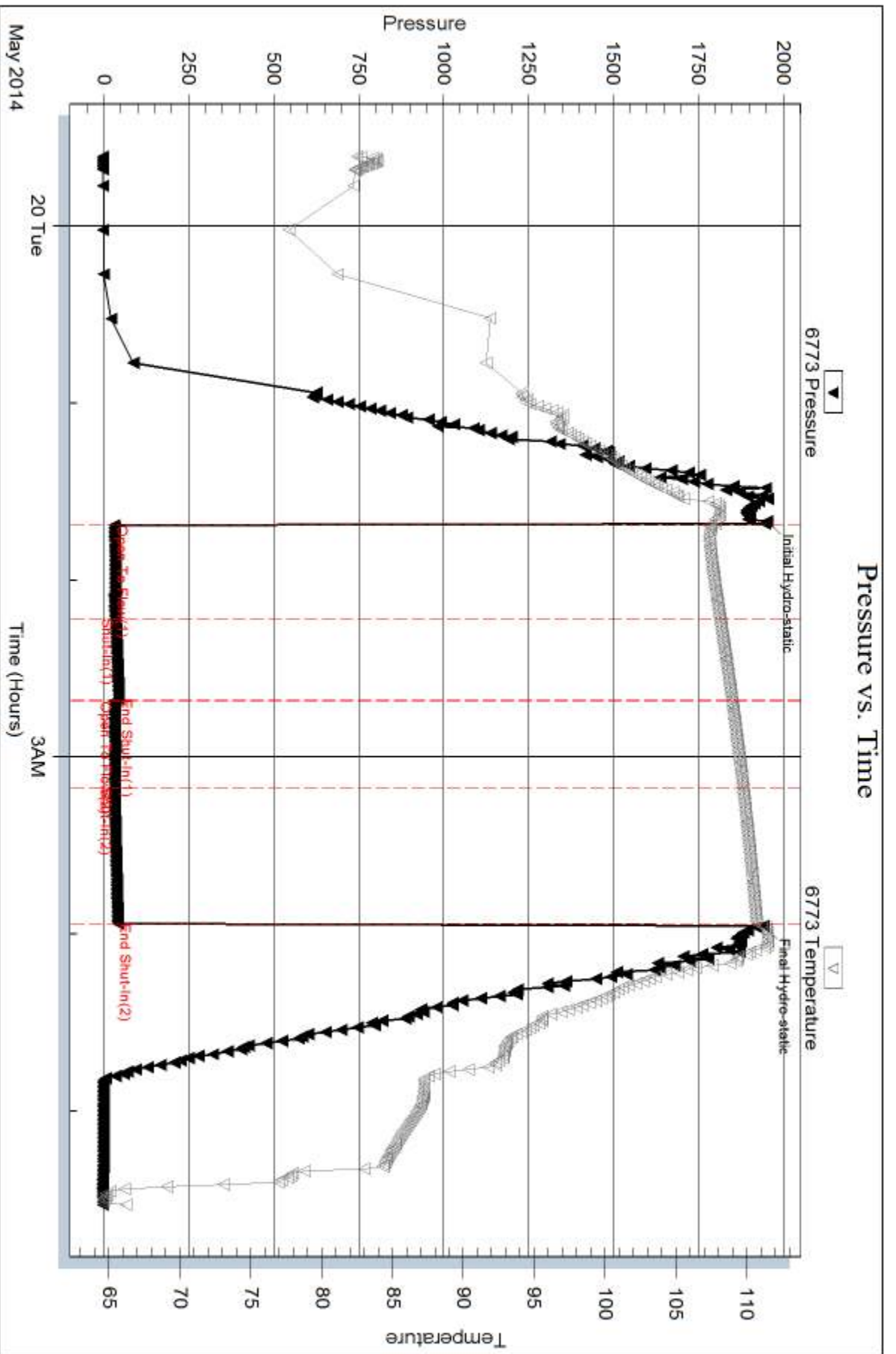
Length ft	Description	Volume bbl
10.00	DRLG Mud 100%m	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

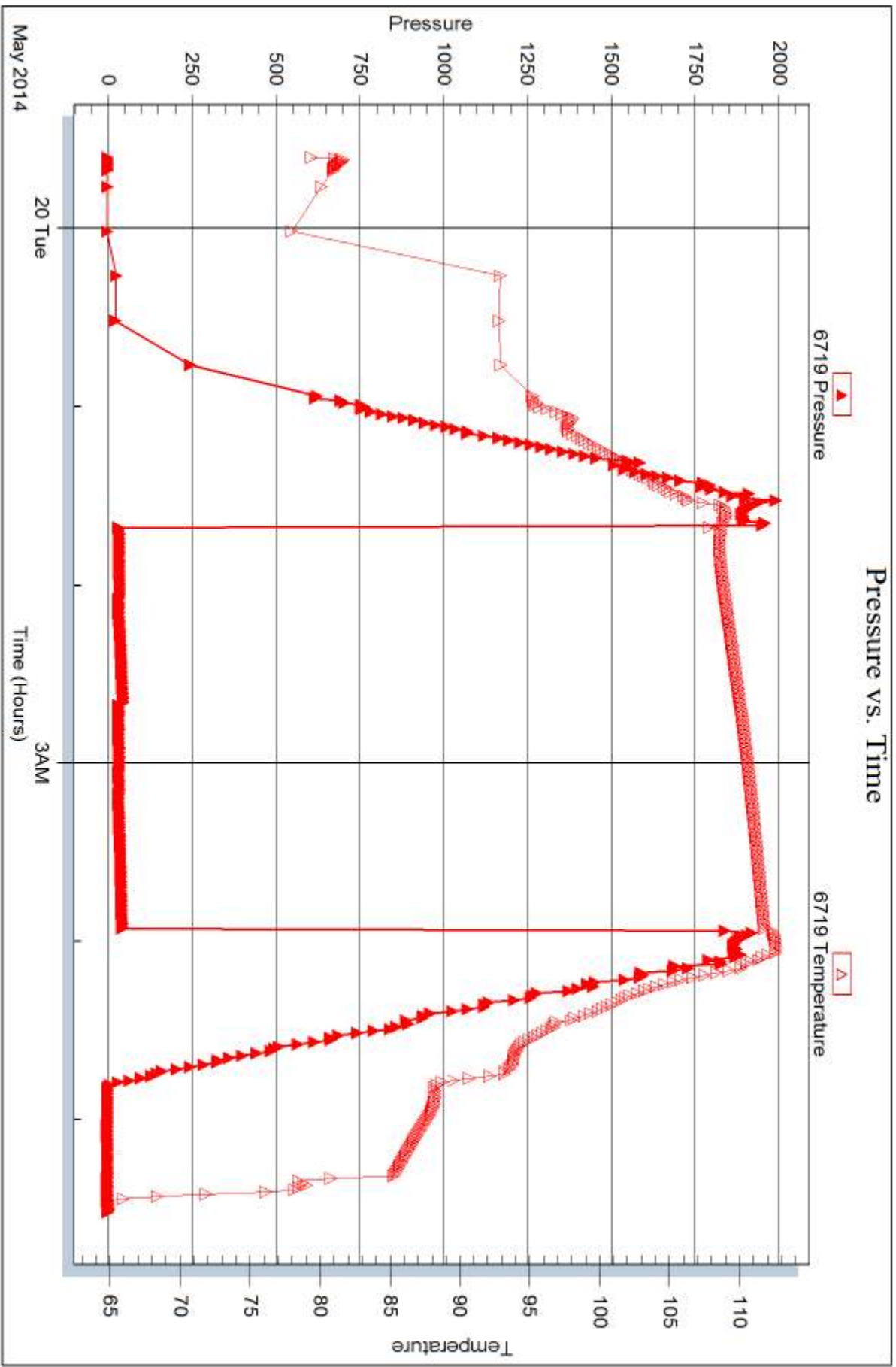
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments: Slight trace of oil in mud and tool.









## DRILL STEM TEST REPORT

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

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbolt

### **Blackwell A #1**

#### **2-22s-15w Pawnee,KS**

Start Date: 2014.05.20 @ 16:51:31

End Date: 2014.05.20 @ 20:19:01

Job Ticket #: 52021                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.27 @ 10:54:42



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

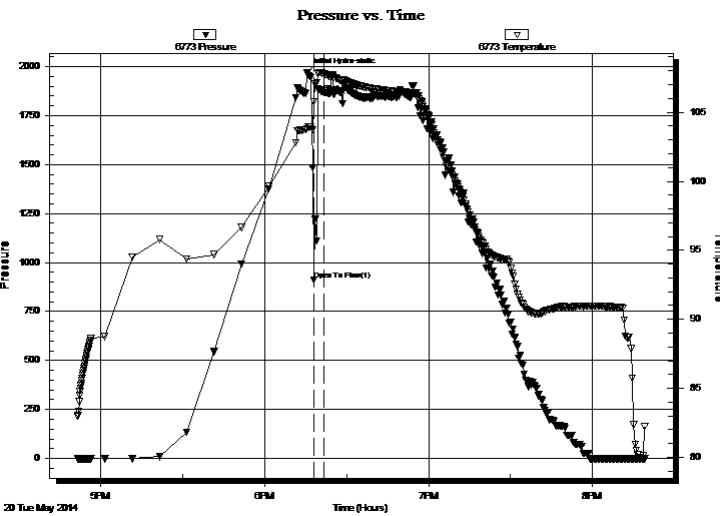
**2-22s-15w Pawnee, KS**  
**Blackwell A #1**  
 Job Ticket: 52021 **DST#: 3**  
 Test Start: 2014.05.20 @ 16:51:31

## GENERAL INFORMATION:

Formation: **Simpson sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:18:01  
 Time Test Ended: 20:19:01  
 Interval: **3846.00 ft (KB) To 3925.00 ft (KB) (TVD)**  
 Total Depth: 3925.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 53  
 Reference Elevations: 1977.00 ft (KB)  
 1971.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 6773 Outside**  
 Press@RunDepth: psig @ 3847.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.20 End Date: 2014.05.20 Last Calib.: 2014.05.20  
 Start Time: 16:51:36 End Time: 20:19:01 Time On Btm: 2014.05.20 @ 18:15:31  
 Time Off Btm:

TEST COMMENT: IF: Opened tool and packer failure.  
 IS:  
 FF:  
 FS:



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.32	103.79	Initial Hydro-static
3	910.22	105.77	Open To Flow (1)
6	1867.27	107.80	Shut-In(1)

## Recovery

Length (ft)	Description	Volume (bbl)
372.00	DRLG Mud 100%m	5.22

\* 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.

**2-22s-15w Pawnee,KS**

PO Box 252  
Great Bend, KS 67530

**Blackwell A #1**

Job Ticket: 52021

**DST#: 3**

ATTN: Kurt Talbolt

Test Start: 2014.05.20 @ 16:51:31

## Tool Information

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 53.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3846.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Packer failure.

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3827.00	
Shut In Tool	5.00			3832.00	
Hydraulic tool	5.00			3837.00	
Packer	4.00			3841.00	20.00 Bottom Of Top Packer
Packer	5.00			3846.00	
Stubb	1.00			3847.00	
Recorder	0.00	6719	Outside	3847.00	
Recorder	0.00	6773	Outside	3847.00	
Perforations	2.00			3849.00	
Change Over Sub	1.00			3850.00	
Drill Pipe	64.00			3914.00	
Change Over Sub	1.00			3915.00	
Perforations	7.00			3922.00	
Bullnose	3.00			3925.00	79.00 Bottom Packers & Anchor

**Total Tool Length: 99.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Charter Energy, Inc.

**2-22s-15w Pawnee,KS**

PO Box 252  
Great Bend, KS 67530

**Blackwell A #1**

Job Ticket: 52021

**DST#: 3**

ATTN: Kurt Talbolt

Test Start: 2014.05.20 @ 16:51:31

### 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:

7800 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.55 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	DRLG Mud 100%m	5.218

Total Length: 372.00 ft      Total Volume: 5.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

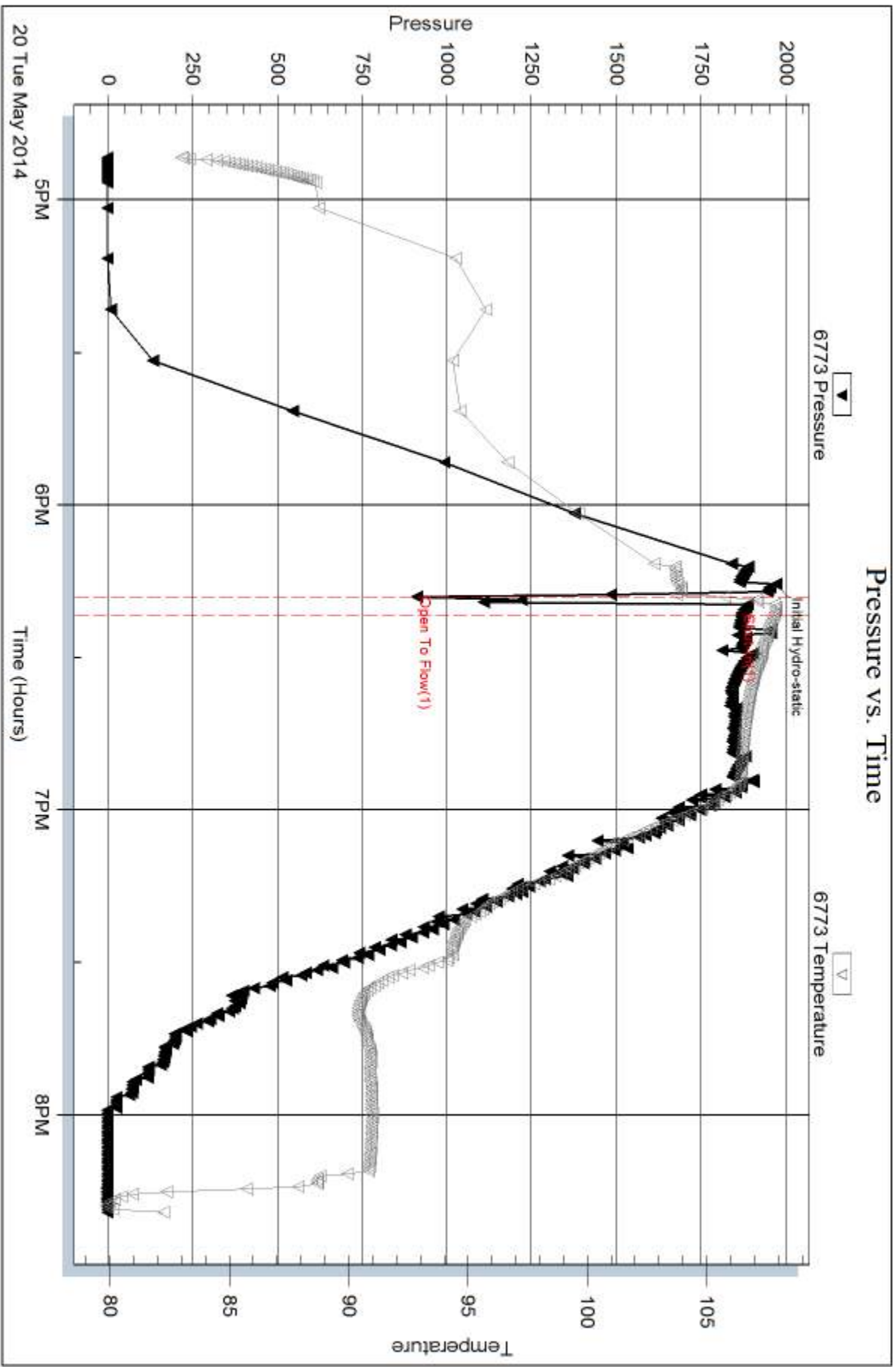
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Packer failure on open



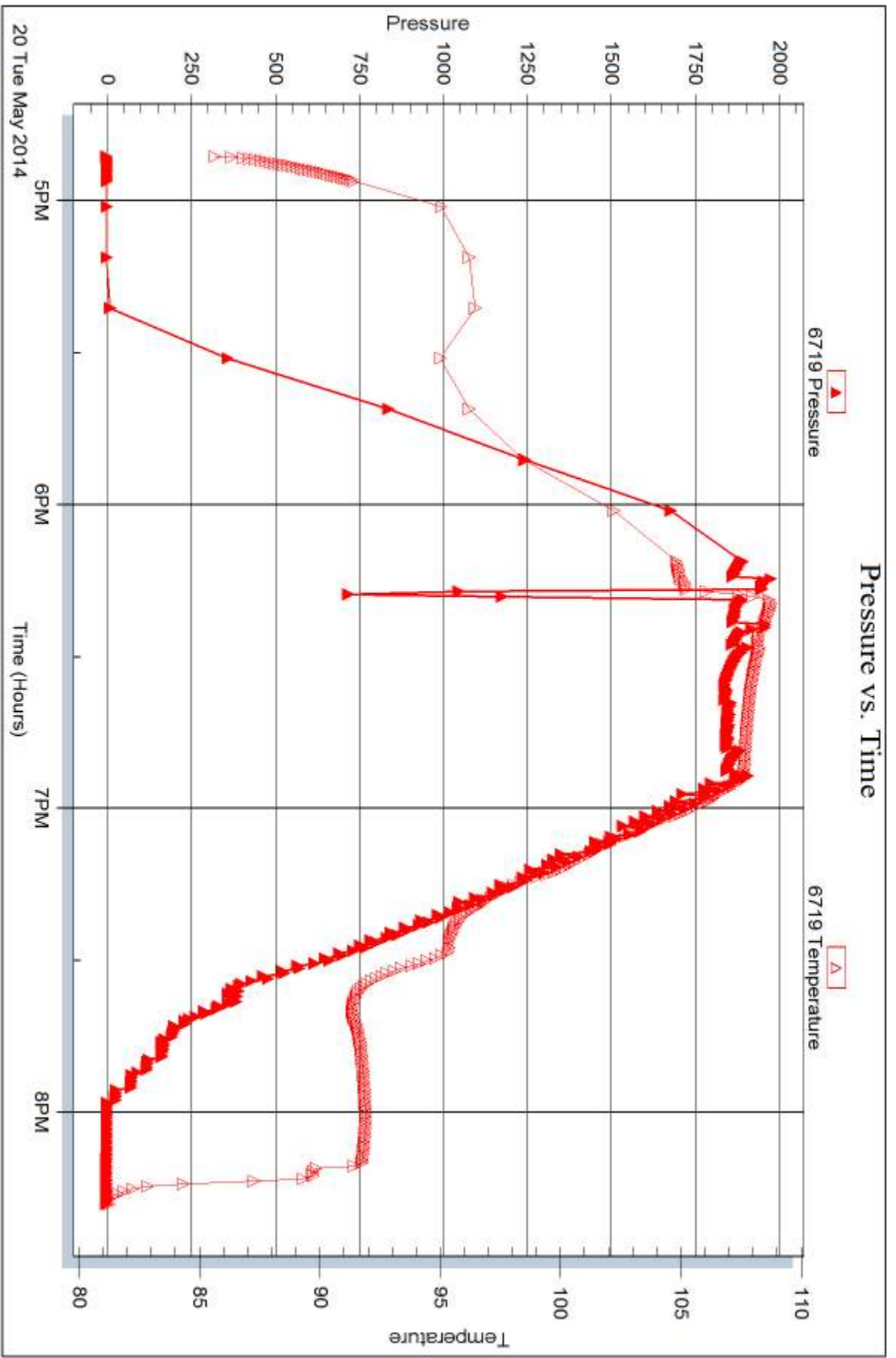


Serial #: 6719

Outside Charter Energy, Inc.

Blackwell A #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 52021

Printed: 2014.05.27 @ 10:54:43



## DRILL STEM TEST REPORT

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

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbolt

### **Blackwell A #1**

#### **2-22s-15w Pawnee,KS**

Start Date: 2014.05.20 @ 21:25:32

End Date: 2014.05.21 @ 00:59:42

Job Ticket #: 52022                      DST #: 4

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

Printed: 2014.05.27 @ 10:54:19



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

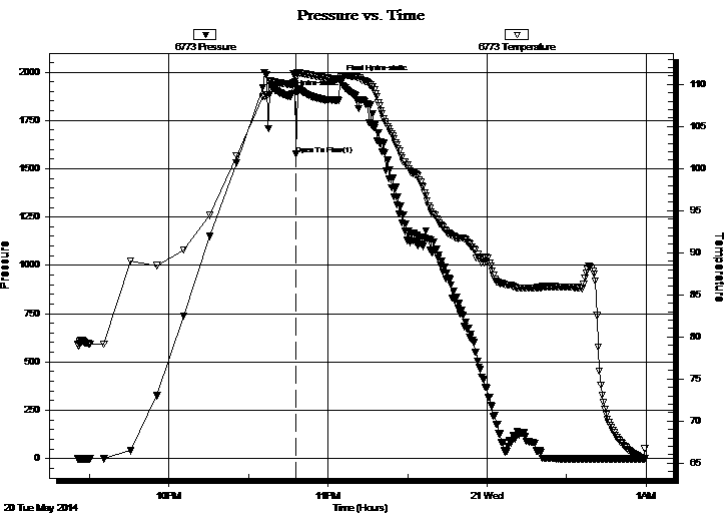
**2-22s-15w Pawnee, KS**  
**Blackwell A #1**  
Job Ticket: 52022      **DST#: 4**  
Test Start: 2014.05.20 @ 21:25:32

## GENERAL INFORMATION:

Formation: **Viola-Simpson**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 22:47:57      Tester: Matt Smith  
Time Test Ended: 00:59:42      Unit No: 53  
**Interval: 3827.00 ft (KB) To 3925.00 ft (KB) (TVD)**      Reference Elevations: 1977.00 ft (KB)  
Total Depth: 3925.00 ft (KB) (TVD)      1971.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 6.00 ft

**Serial #: 6773      Outside**  
Press@RunDepth:      psig @      3828.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.05.20      End Date: 2014.05.21      Last Calib.: 2014.05.21  
Start Time: 21:25:32      End Time: 00:59:42      Time On Btm: 2014.05.20 @ 22:37:57  
Time Off Btm: 2014.05.20 @ 23:04:27

TEST COMMENT: IF: Opened packer failer.  
IS:  
FF:  
FS:



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1882.52	110.37	Initial Hydro-static
10	1574.41	110.70	Open To Flow (1)
27	1963.43	110.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
206.00	DLNG Mud 100%m	2.89

\* 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.

**2-22s-15w Pawnee,KS**

PO Box 252  
Great Bend, KS 67530

**Blackwell A #1**

Job Ticket: 52022

**DST#: 4**

ATTN: Kurt Talbolt

Test Start: 2014.05.20 @ 21:25:32

## Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.80 inches	Volume: 53.81 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 53.81 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3827.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	98.00 ft				
Tool Length:	118.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: Bottom Packer is a Shale Packer...

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3808.00	
Shut In Tool	5.00			3813.00	
Hydraulic tool	5.00			3818.00	
Packer	4.00			3822.00	20.00 Bottom Of Top Packer
Packer	5.00			3827.00	
Stubb	1.00			3828.00	
Recorder	0.00	6719	Outside	3828.00	
Recorder	0.00	6773	Outside	3828.00	
Perforations	2.00			3830.00	
Change Over Sub	1.00			3831.00	
Drill Pipe	64.00			3895.00	
Change Over Sub	1.00			3896.00	
Perforations	26.00			3922.00	
Bullnose	3.00			3925.00	98.00 Bottom Packers & Anchor

**Total Tool Length: 118.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy, Inc.

**2-22s-15w Pawnee,KS**

PO Box 252  
Great Bend, KS 67530

**Blackwell A #1**

Job Ticket: 52022

**DST#: 4**

ATTN: Kurt Talbolt

Test Start: 2014.05.20 @ 21:25:32

## 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:

7800 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
206.00	DLNG Mud 100%m	2.890

Total Length: 206.00 ft      Total Volume: 2.890 bbl

Num Fluid Samples: 0

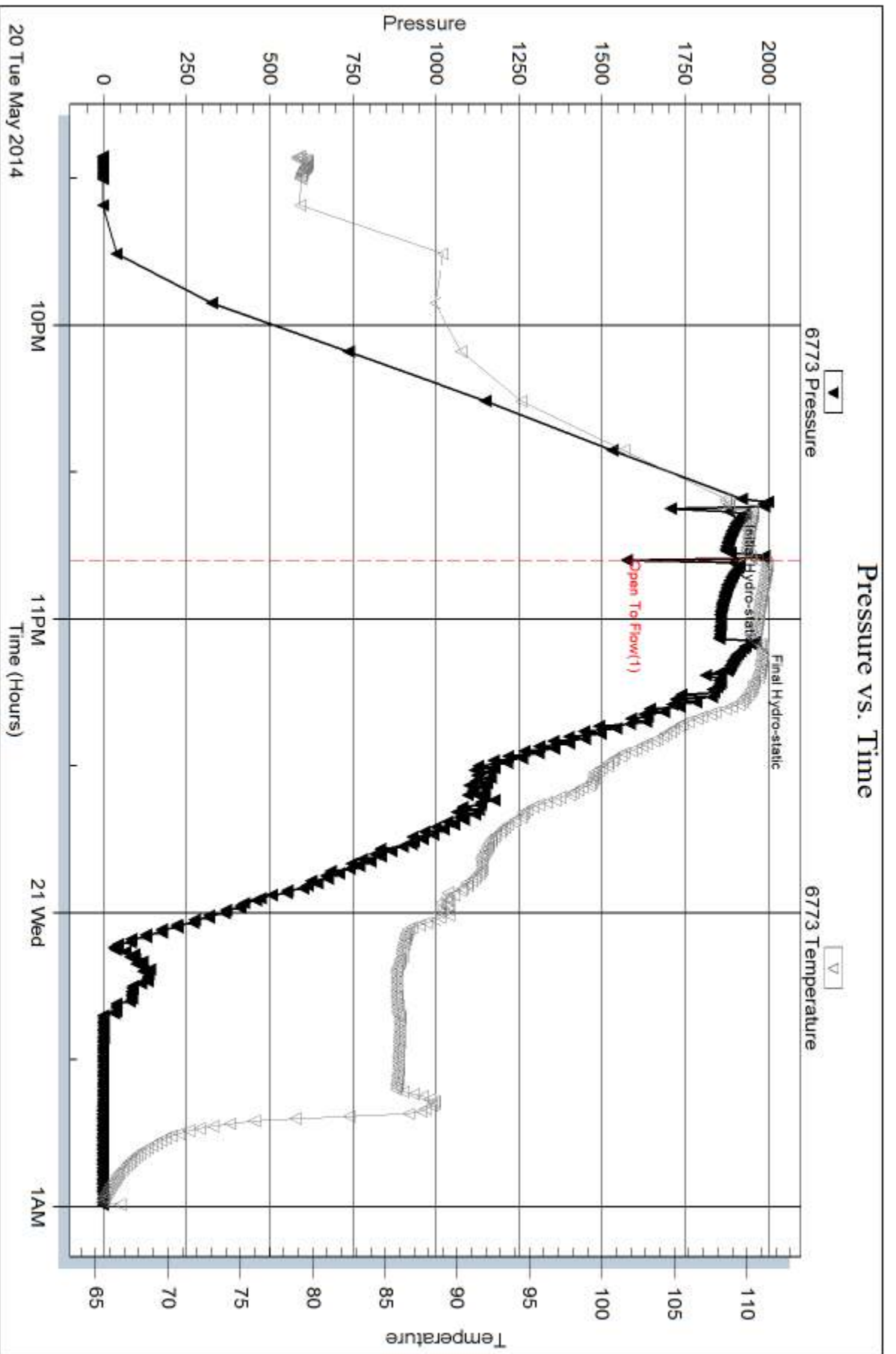
Num Gas Bombs: 0

Serial #: none

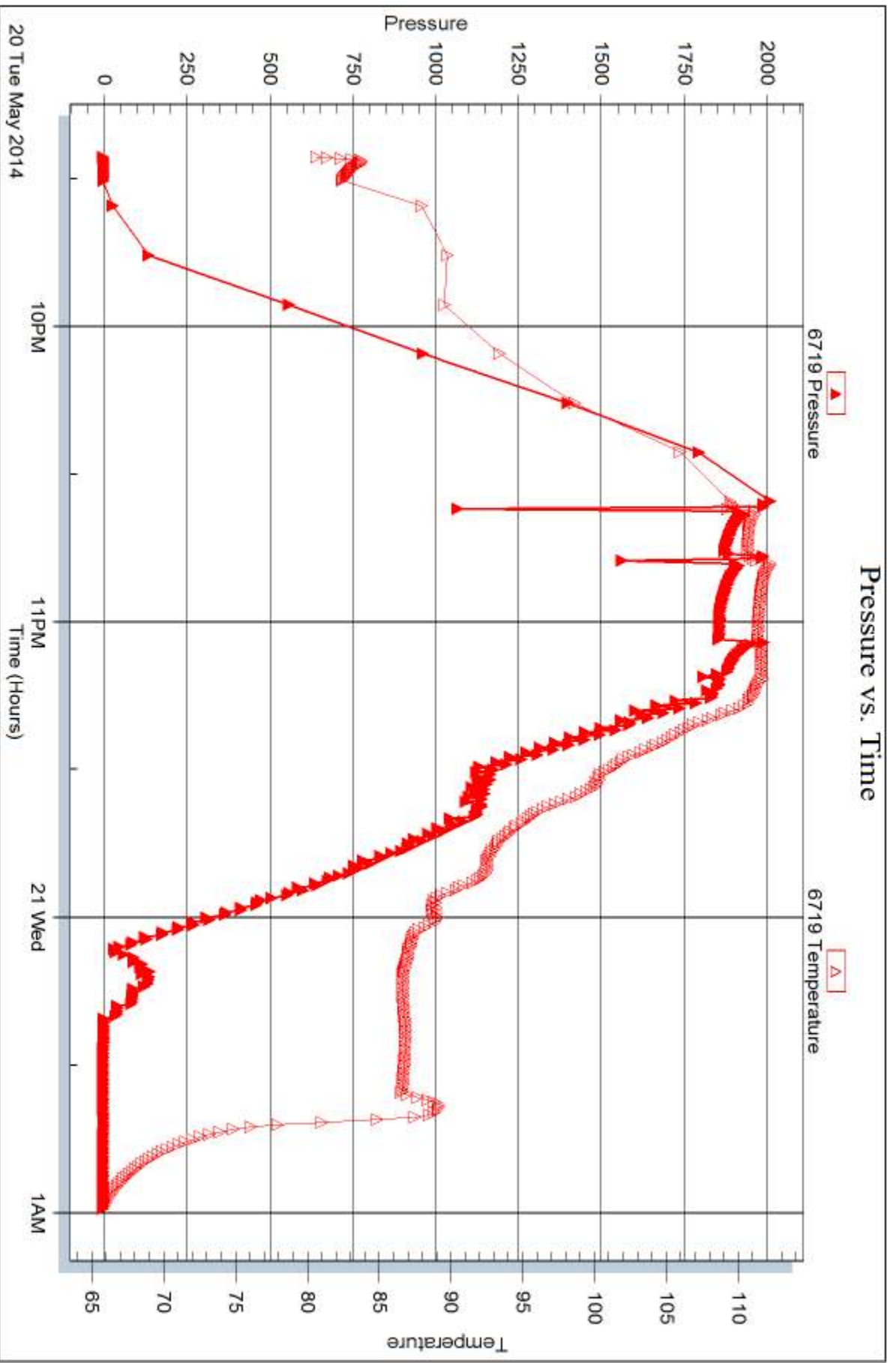
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

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

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbolt

### **Blackwell A #1**

#### **2-22s-15w Pawnee,KS**

Start Date: 2014.05.21 @ 05:48:38

End Date: 2014.05.21 @ 11:48:38

Job Ticket #: 52023                      DST #: 5

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

Printed: 2014.05.27 @ 10:53:54



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

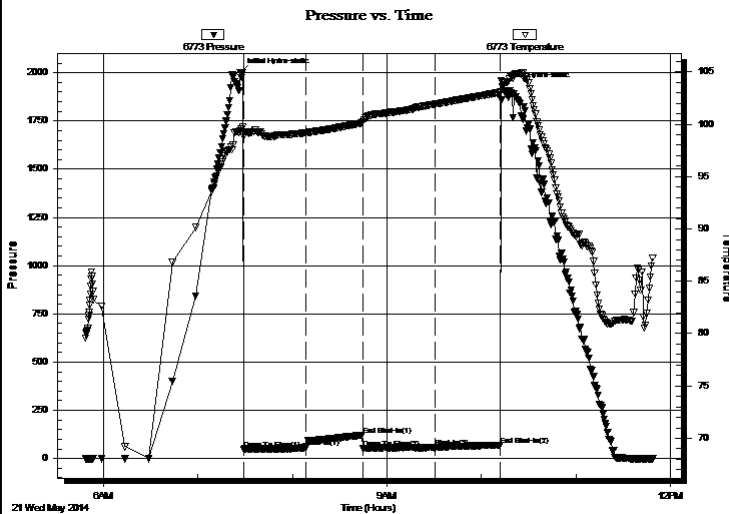
**2-22s-15w Pawnee, KS**  
**Blackwell A #1**  
 Job Ticket: 52023 **DST#: 5**  
 Test Start: 2014.05.21 @ 05:48:38

## GENERAL INFORMATION:

Formation: **Viola-Simpson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:29:08  
 Time Test Ended: 11:48:38  
 Interval: **3843.00 ft (KB) To 3925.00 ft (KB) (TVD)**  
 Total Depth: 3680.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 53  
 Reference Elevations: 1977.00 ft (KB)  
 1971.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 6773 Outside**  
 Press@RunDepth: 56.53 psig @ 3844.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.21 End Date: 2014.05.21 Last Calib.: 2014.05.21  
 Start Time: 05:48:43 End Time: 11:48:37 Time On Btm: 2014.05.21 @ 07:26:53  
 Time Off Btm: 2014.05.21 @ 10:13:23

TEST COMMENT: IF: Weak blow . Surf., to 2".  
 IS: No blow .  
 FF: No blow .  
 FS: No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.07	99.37	Initial Hydro-static
3	48.64	98.85	Open To Flow (1)
42	57.05	99.19	Shut-In(1)
78	120.21	100.14	End Shut-In(1)
78	52.57	100.24	Open To Flow (2)
124	56.53	101.92	Shut-In(2)
165	69.24	103.06	End Shut-In(2)
167	1929.84	104.04	Final Hydro-static

## Recovery

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

\* 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.

**2-22s-15w Pawnee,KS**

PO Box 252  
Great Bend, KS 67530

**Blackwell A #1**

Job Ticket: 52023

**DST#: 5**

ATTN: Kurt Talbolt

Test Start: 2014.05.21 @ 05:48:38

## Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.80 inches	Volume: 53.81 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 53.81 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3843.00 ft			Final	58000.00 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: Bottom packer is a Shale Packer again...

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3824.00	
Shut In Tool	5.00			3829.00	
Hydraulic tool	5.00			3834.00	
Packer	4.00			3838.00	20.00 Bottom Of Top Packer
Packer	5.00			3843.00	
Stubb	1.00			3844.00	
Recorder	0.00	6719	Outside	3844.00	
Recorder	0.00	6773	Outside	3844.00	
Perforations	3.00			3847.00	
Change Over Sub	1.00			3848.00	
Drill Pipe	64.00			3912.00	
Change Over Sub	1.00			3913.00	
Perforations	9.00			3922.00	
Bullnose	3.00			3925.00	82.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Charter Energy, Inc.

**2-22s-15w Pawnee,KS**

PO Box 252  
Great Bend, KS 67530

**Blackwell A #1**

Job Ticket: 52023

**DST#: 5**

ATTN: Kurt Talbolt

Test Start: 2014.05.21 @ 05:48:38

### 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:

7800 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	DRLG Mud 100%m	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

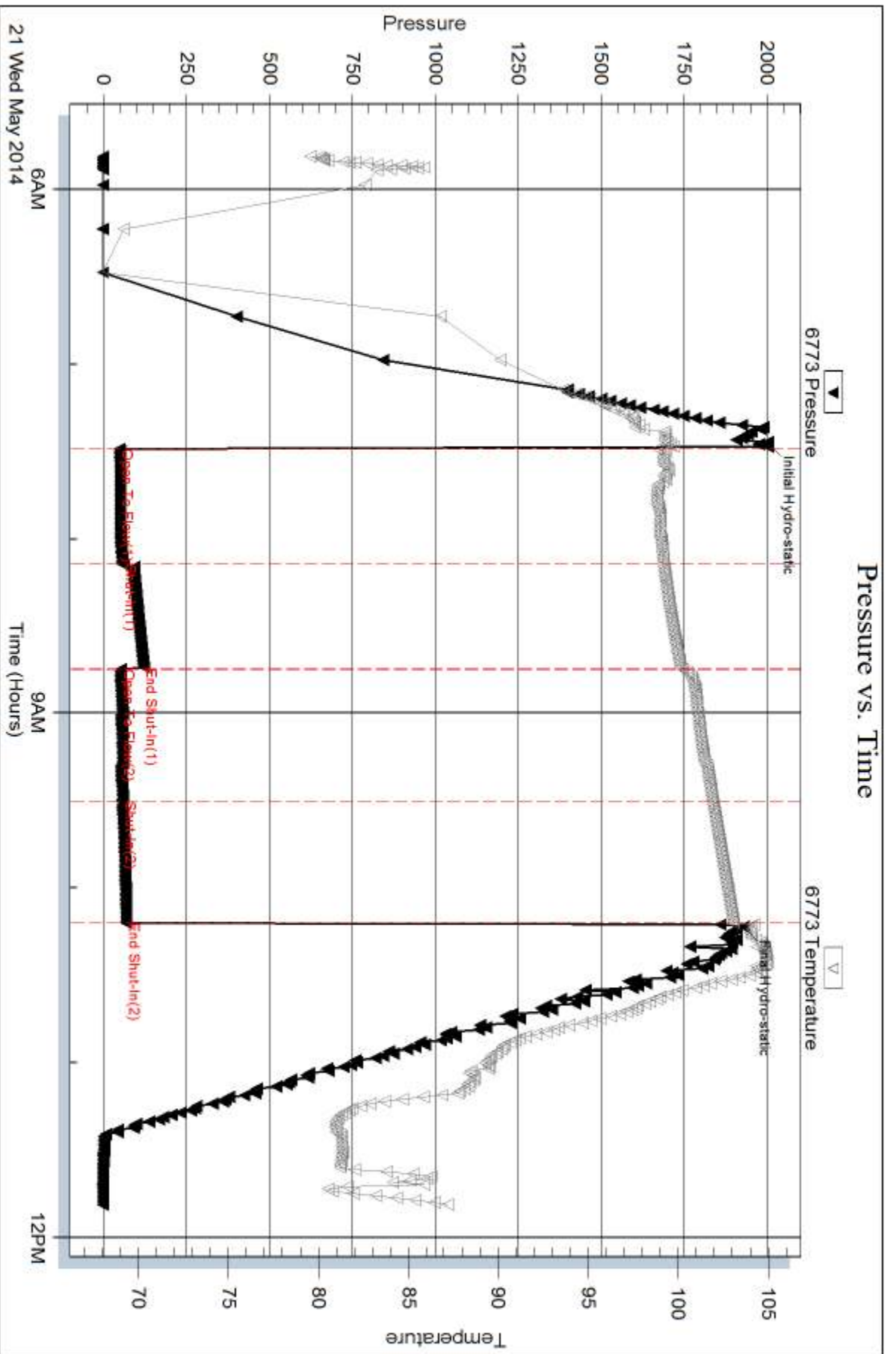
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



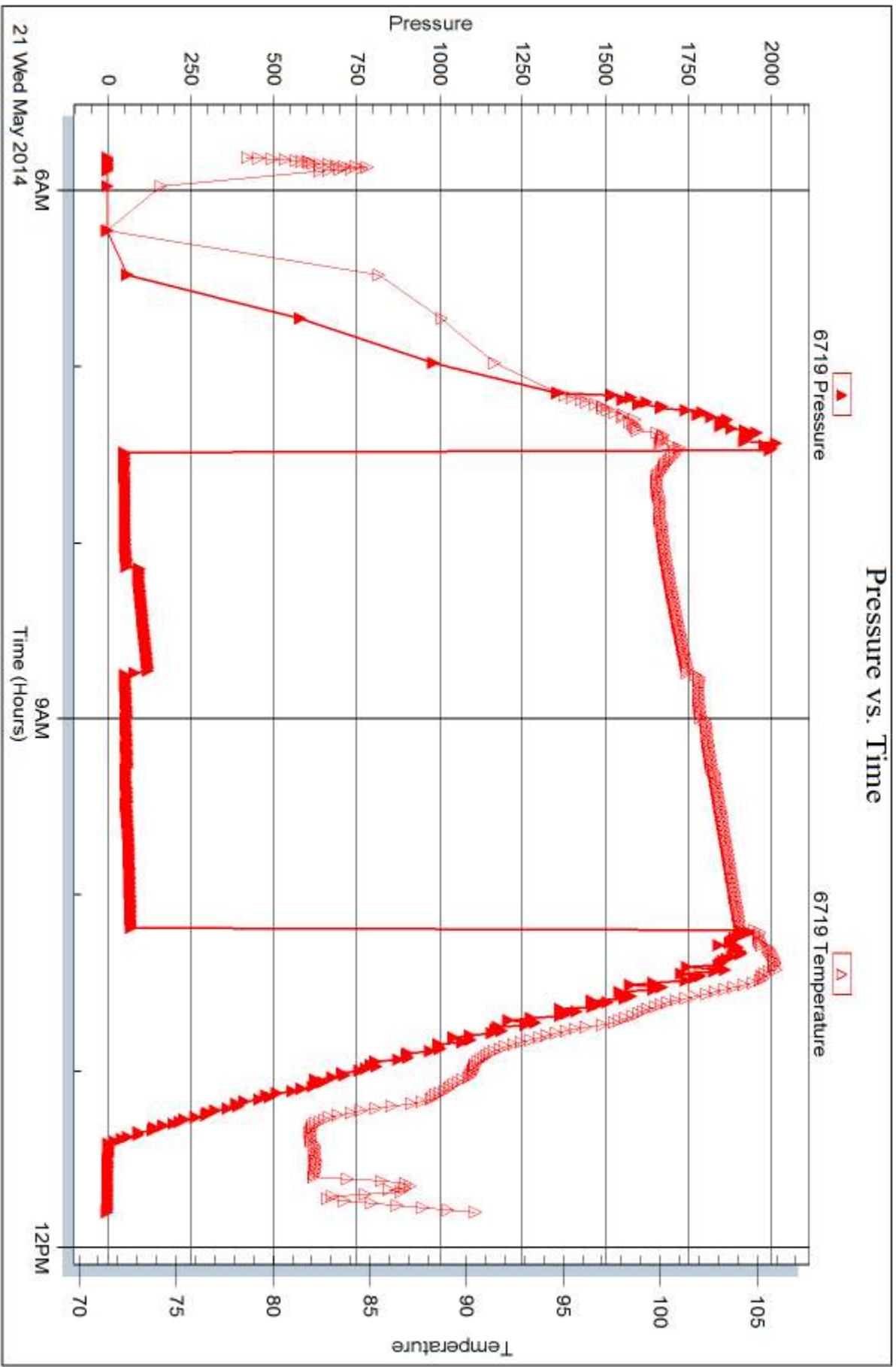


Serial #: 6719

Outside Charter Energy, Inc.

Blackwell A #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 52023

Printed: 2014.05.27 @ 10:53:55



## DRILL STEM TEST REPORT

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

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbolt

### **Blackwell A #1**

#### **2-22s-15w Pawnee,KS**

Start Date: 2014.05.22 @ 00:37:00

End Date: 2014.05.22 @ 10:47:30

Job Ticket #: 52024                      DST #: 6

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

Printed: 2014.05.27 @ 10:53:23



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**2-22s-15w Pawnee, KS**  
**Blackwell A #1**  
Job Ticket: 52024 **DST#: 6**  
Test Start: 2014.05.22 @ 00:37:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:09:45  
Time Test Ended: 10:47:30  
Interval: **3842.00 ft (KB) To 3945.00 ft (KB) (TVD)**  
Total Depth: 3945.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Matt Smith  
Unit No: 53  
Reference Elevations: 1977.00 ft (KB)  
1971.00 ft (CF)  
KB to GR/CF: 6.00 ft

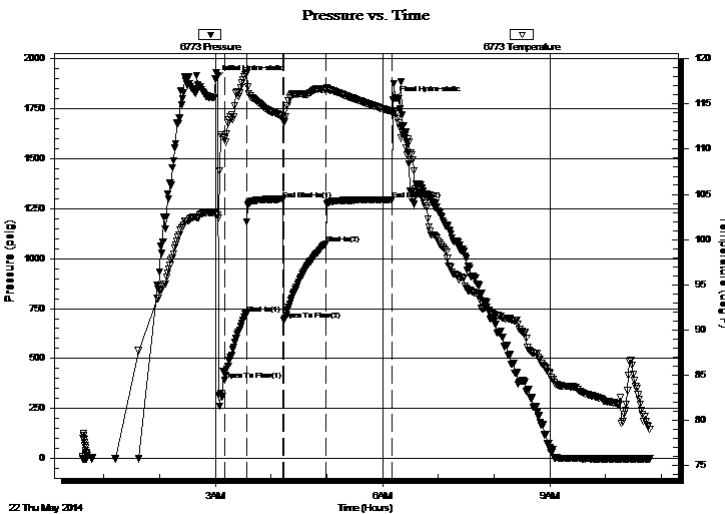
## Serial #: 6773

**Outside**

Press@RunDepth: 1076.08 psig @ 3843.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.05.22 End Date: 2014.05.22 Last Calib.: 2014.05.22  
Start Time: 00:37:05 End Time: 10:47:30 Time On Btm: 2014.05.22 @ 02:59:45  
Time Off Btm: 2014.05.22 @ 06:11:00

TEST COMMENT: IF: Strong blow . B.O.B. in 2 1/2 mins.  
IS: No blow .  
FF: Strong blow . B.O.B. in 2 1/2 mins.  
FS: No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.29	102.74	Initial Hydro-static
10	391.68	111.20	Open To Flow (1)
34	725.21	118.33	Shut-In(1)
73	1296.10	113.60	End Shut-In(1)
74	690.75	113.08	Open To Flow (2)
119	1076.08	116.58	Shut-In(2)
191	1296.79	114.13	End Shut-In(2)
192	1793.72	114.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MWGO 1% <i>m</i> 5% <i>w</i> 9% <i>g</i> 85% <i>o</i>	1.74
496.00	MWGO 2% <i>m</i> 13% <i>w</i> 15% <i>g</i> 70% <i>o</i>	6.96
496.00	MWGO 1% <i>m</i> 12% <i>w</i> 43% <i>o</i> 44% <i>g</i>	6.96
124.00	MWGO 10% <i>m</i> 15% <i>w</i> 30% <i>o</i> 45% <i>g</i>	1.74
372.00	MWGO 3% <i>m</i> 15% <i>w</i> 25% <i>g</i> 57% <i>o</i>	5.22
372.00	MWGO 10% <i>m</i> 20% <i>w</i> 25% <i>g</i> 45% <i>o</i>	5.22

\* 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.

**2-22s-15w Pawnee,KS**

PO Box 252  
Great Bend, KS 67530

**Blackwell A #1**

Job Ticket: 52024

**DST#: 6**

ATTN: Kurt Talbolt

Test Start: 2014.05.22 @ 00:37:00

## Tool Information

Drill Pipe:	Length: 3837.00 ft	Diameter: 3.80 inches	Volume: 53.82 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 53.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3842.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	103.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Bottom packer is still Shale Packer...

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3823.00	
Shut In Tool	5.00			3828.00	
Hydraulic tool	5.00			3833.00	
Packer	4.00			3837.00	20.00 Bottom Of Top Packer
Packer	5.00			3842.00	
Stubb	1.00			3843.00	
Recorder	0.00	6719	Outside	3843.00	
Recorder	0.00	6773	Outside	3843.00	
Perforations	2.00			3845.00	
Change Over Sub	1.00			3846.00	
Drill Pipe	95.00			3941.00	
Change Over Sub	1.00			3942.00	
Bullnose	3.00			3945.00	103.00 Bottom Packers & Anchor

**Total Tool Length: 123.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**2-22s-15w Pawnee, KS**  
**Blackwell A #1**  
Job Ticket: 52024      **DST#: 6**  
Test Start: 2014.05.22 @ 00:37:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	29000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7600.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

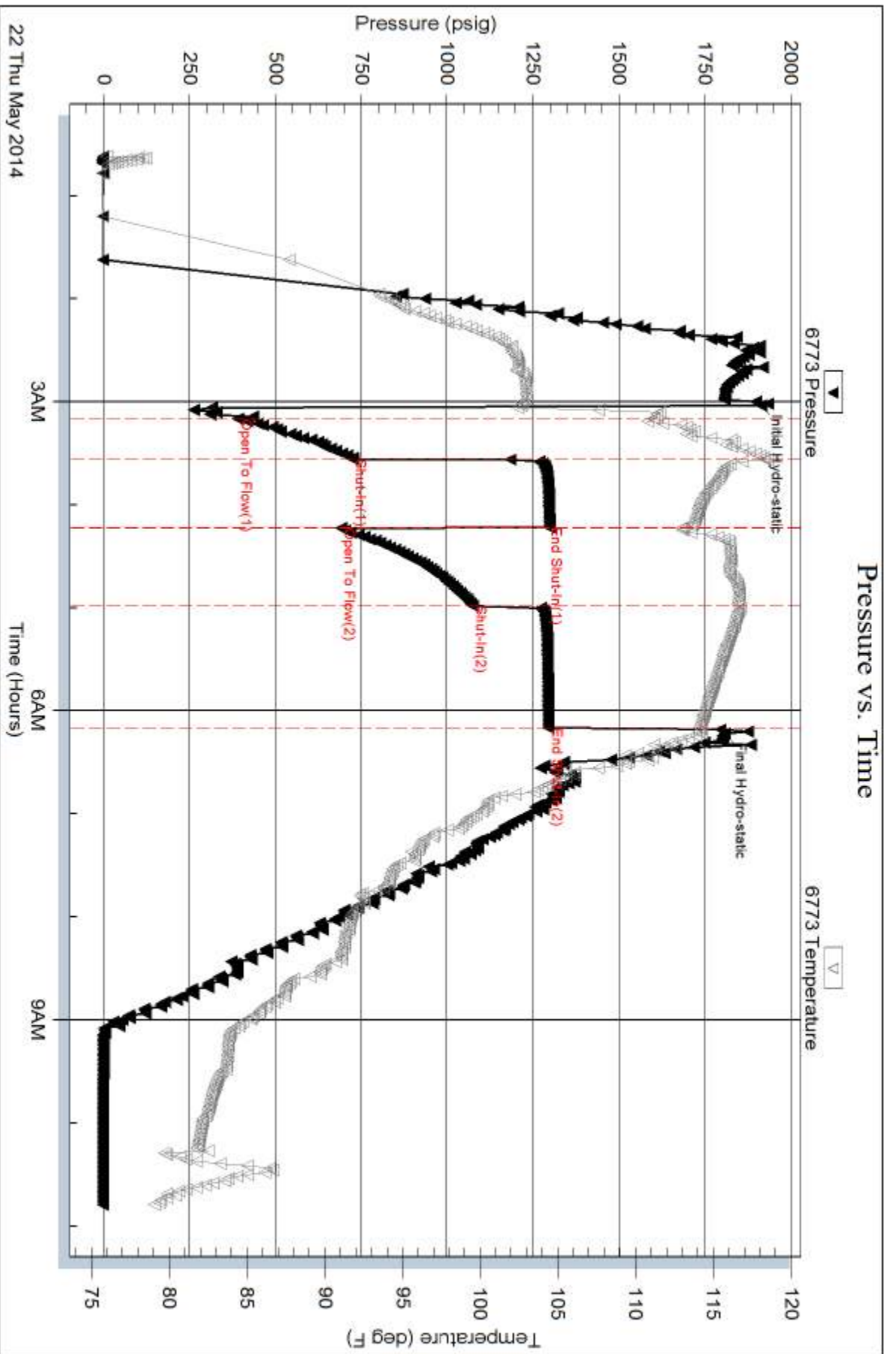
Length ft	Description	Volume bbl
124.00	MWGO 1%m 5%w 9%g 85%o	1.739
496.00	MWGO 2%m 13%w 15%g 70%o	6.958
496.00	MWGO 1%m 12%w 43%o 44%g	6.958
124.00	MWOG 10%m 15%w 30%o 45%g	1.739
372.00	MWGO 3%m 15%w 25%g 57%o	5.218
372.00	MWGO 10%m 20%w 25%g 45%o	5.218
310.00	MWGO 4%m 15%w 35%g 46%o	4.348
310.00	MWOCG 3%m 17%w 30%o 50%g	4.348
341.00	WCGM 1%w 29%g 70%m	4.783
0.00	93' G.I.P. 100%g	0.000

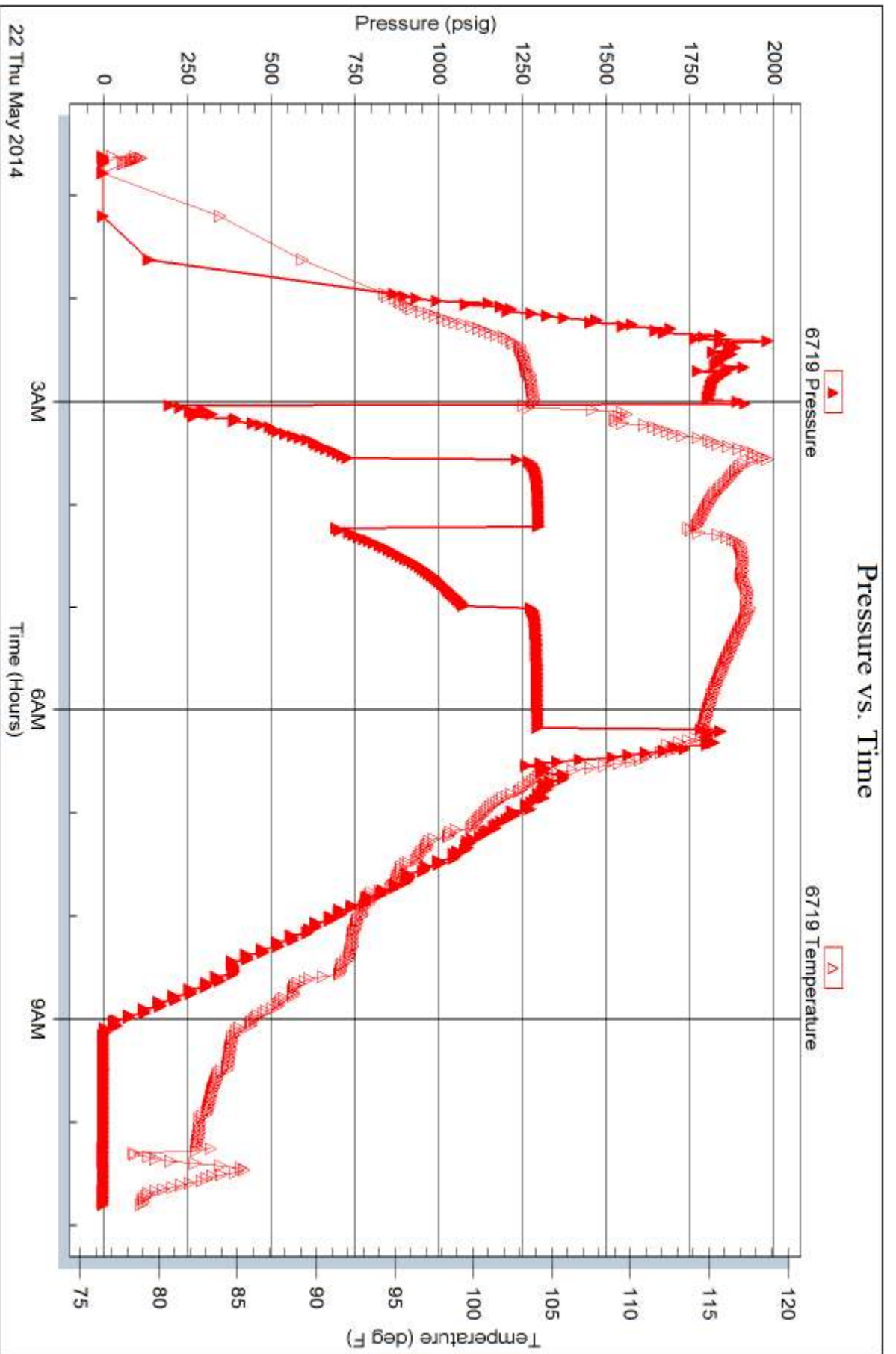
Total Length: 2945.00 ft      Total Volume: 41.309 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .22 @ 74 degrees = 29,000







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52019

4/10

Well Name & No. Blackwell A #1 Test No. 1 Date 5/18/14  
 Company Charter Energy, Inc. Elevation 1977 KB 1971 GL  
 Address P.O. Box 252 Great Bend, Ks. 67530  
 Co. Rep / Geo. Kurt Talbott Rig Royal Drilling #10  
 Location: Sec. 2 Twp. 22s Rge. 15w Co. Pawnee State Ks.

Interval Tested 3640 - 3680 Zone Tested Lansing "H"  
 Anchor Length 40' Drill Pipe Run 3648 Mud Wt. 9.1  
 Top Packer Depth 3635 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3640 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3680 Chlorides 4,400 ppm System LCM 0#

Blow Description IF: Strong blow. B.O.B. in 7 mins.  
ISI: Weak blow. Surf., - 1/2".  
FF: Strong blow. B.O.B. in 9 mins.  
FSI: Weak blow. Surf., - 1/2".

Rec	Feet of	%gas	%oil	%water	%mud
310	G.I.P	100			
62	MWOCG	5	45	30	20
62	mwocg	10	8	42	40
310	OCMW		5	85	10
124	MCW (slt trc oil)		5	85	10

Rec Total 558 BHT \_\_\_\_\_ Gravity N.A. API RW .11 @ 66 °F Chlorides 75,000 ppm

(A) Initial Hydrostatic 1785  Test 1150 T-On Location 2340  
 (B) First Initial Flow 31  Jars \_\_\_\_\_ T-Started 2350  
 (C) First Final Flow 152  Safety Joint \_\_\_\_\_ T-Open 0222  
 (D) Initial Shut-In 720  Circ Sub \_\_\_\_\_ T-Pulled 0527  
 (E) Second Initial Flow 158  Hourly Standby \_\_\_\_\_ T-Out 0754  
 (F) Second Final Flow 277  Mileage 83.9 128.65 Comments \_\_\_\_\_  
 (G) Final Shut-In 681  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1795  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1278.65  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1278.65

Approved By \_\_\_\_\_ Our Representative Matthew A. Smith

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **52020**

Well Name & No. Blackwell A-#1 Test No. 2 Date 5/19/14  
 Company Charter Energy, Inc. Elevation 1977 KB 1971 GL  
 Address P.O. Box 252 GREAT BEND, KS. 67530  
 Co. Rep / Geo. Kurt Talbott Rig Royal Drilling #1  
 Location: Sec. 2 Twp. 22S Rge. 15W Co. Pawnee State KS.

Interval Tested 3826 - 3875 Zone Tested Viola  
 Anchor Length 49' Drill Pipe Run 3838' Mud Wt. 9.3  
 Top Packer Depth 3821 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3826 Wt. Pipe Run 0 WL 9.6  
 Total Depth 3875 Chlorides 6,800 ppm System LCM 0#

Blow Description IF: Weak blow. Surface to 1".  
ISI: No blow.  
FF: No blow.  
FSI: No blow.

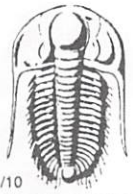
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>DRLG mud (w/slight trace of oil)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 111° Gravity N.A. API RW N.C. @ — °F Chlorides 6,800 ppm

(A) Initial Hydrostatic 1953  Test 1150 T-On Location 2325  
 (B) First Initial Flow 31  Jars — T-Started 2336  
 (C) First Final Flow 35  Safety Joint — T-Open 0141  
 (D) Initial Shut-In 45  Circ Sub — T-Pulled 0357  
 (E) Second Initial Flow 30  Hourly Standby — T-Out 0531  
 (F) Second Final Flow 31  Mileage 83 128.65 Comments —  
 (G) Final Shut-In 41  Sampler —  
 (H) Final Hydrostatic 1942  Straddle —  
 Shale Packer —  
 Ruined Shale Packer —  
 Ruined Packer —  
 Extra Copies —  
 Initial Open 30  Extra Packer —  
 Initial Shut-In 30  Extra Recorder —  
 Final Flow 30  Day Standby —  
 Final Shut-In 45  Accessibility —  
 Sub Total 1278.65 Sub Total 0  
 Total 1278.65  
 MP/DST Disc't —

Approved By \_\_\_\_\_ Our Representative Matthew A. Smith

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52021

Well Name & No. Blackwell A-#1 Test No. 3 Date 5-20-14  
 Company Charter Energy, Inc. Elevation 1977 KB 1971 GL  
 Address P.O. Box 252 Great Bend, KS. 67530  
 Co. Rep / Geo. Kurt Talbot Rig Royal Drilling #1  
 Location: Sec. 2 Twp. 22s Rge. 15w Co. Pawnee State KS.

Interval Tested 3846 - 3925 Zone Tested Simpson Sand  
 Anchor Length 79' Drill Pipe Run 3835 Mud Wt. 9.1  
 Top Packer Depth 3841 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3846 Wt. Pipe Run 0 WL 11.6  
 Total Depth 3925 Chlorides 7,800 ppm System LCM 0

Blow Description IF: Opened at Packer Sealure

ESI: —  
 FF: —  
 FSI: —

Rec	Feet of	%gas	%oil	%water	%mud
<u>248</u>	<u>Drilling mud</u>			<u>100</u>	<u>0</u>
<u>124</u>	<u>Drilling mud</u>			<u>100</u>	<u>0</u>

Rec Total 372 BHT 106° Gravity N.A. API RW N.C. @ — °F Chlorides 7,800 ppm  
 (A) Initial Hydrostatic 1970  Test 950  
 (B) First Initial Flow 910  Jars \_\_\_\_\_  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_  
 (F) Second Final Flow \_\_\_\_\_  Mileage 83 → 128.65  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1867  Straddle \_\_\_\_\_  
 Initial Open 30 - Pulled  Shale Packer \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Extra Packer \_\_\_\_\_  
 Final Flow \_\_\_\_\_  Extra Recorder \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

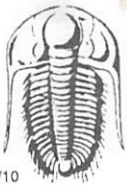
T-On Location 1645  
 T-Started 1651  
 T-Open 1818  
 T-Pulled 1821  
 T-Out 2019

Comments Packer Sealure, pull Reset Packer depth Run DS

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1078.65  
 MP/DST Disc't \_\_\_\_\_

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

## Test Ticket

NO. 52022

4/10

Well Name & No. Blackwell A-#1 Test No. 4 Date 5/20/14  
 Company Charter Energy, Inc. Elevation 1977 KB 1971 GL  
 Address P.O. Box 252 Great Bend, KS. 67530  
 Co. Rep / Geo. Kurt Talbot Rig Royal Drilling Rig #1  
 Location: Sec. 2 Twp. 22s Rge. 15w Co. Pawnee State KS.

Interval Tested 3827 - 3925 Zone Tested Viola - Simpson Sand  
 Anchor Length 98' Drill Pipe Run 3836 Mud Wt. 9.1  
 Top Packer Depth 3822 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3827 Wt. Pipe Run 0 WL 11.6  
 Total Depth 3925 Chlorides 7.800 ppm System LCM 0<sup>+</sup>

Blow Description IF: Opened Packer Failure  
 ISI: \_\_\_\_\_  
 FF: \_\_\_\_\_  
 FSI: \_\_\_\_\_

Rec	Feet of	%gas	%oil	%water	%mu
<u>82</u>	<u>Drilling mud</u>				<u>100</u>
<u>124</u>	<u>Drilling mud</u>				<u>100</u>

Rec Total 206' BHT \_\_\_\_\_ Gravity N.A. API RW N.C @ \_\_\_\_\_ ° F Chlorides 7.800 ppm

(A) Initial Hydrostatic 1882  Test 950 T-On Location 1645  
 (B) First Initial Flow 1574  Jars \_\_\_\_\_ T-Started 2125  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open 2247  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 2304  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 0059  
 (F) Second Final Flow \_\_\_\_\_  Mileage \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1963  Straddle \_\_\_\_\_

Initial Open 30 - Packer Failure  Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow \_\_\_\_\_  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_ Sub Total 0  
 Sub Total 1200  Accessibility \_\_\_\_\_ Total 1200  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Matthew A. Smith  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52023

Well Name & No. Blackwell A-#1 Test No. 5 Date 5/21/14  
 Company Charter Energy, Inc. Elevation 1977 KB 1971 GL  
 Address P.O. Box 252 Great Bend, KS. 67530  
 Co. Rep / Geo. Kwet Talbot Rig Royal Drilling Rig #2  
 Location: Sec. 2 Twp. 22S Rge. 15W Co. Pawnee State KS.

Interval Tested 3843 - 3925 Zone Tested Viola - Simpson Sand  
 Anchor Length 82' Drill Pipe Run 3836 Mud Wt. 9.1  
 Top Packer Depth 3838 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3843 Wt. Pipe Run 0 WL 11.6  
 Total Depth 3925 Chlorides 7,800 ppm System LCM 0<sup>th</sup>

Blow Description IF: Weak blow, Surf. - 2"  
ISI: No blow.  
FF: No blow.  
FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>DRLG Mud</u>				<u>100%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 103° Gravity N.A. API RW N.C @ — °F Chlorides 7,800 ppm

(A) Initial Hydrostatic 2002  Test 1150 T-On Location 0345  
 (B) First Initial Flow 49  Jars \_\_\_\_\_ T-Started 0548  
 (C) First Final Flow 57  Safety Joint \_\_\_\_\_ T-Open 0729  
 (D) Initial Shut-In 120  Circ Sub \_\_\_\_\_ T-Pulled 1013  
 (E) Second Initial Flow 53  Hourly Standby \_\_\_\_\_ T-Out 1148  
 (F) Second Final Flow 57  Mileage 83.9? 128.65 Comments went got new Hyd. tool. left location @ 1:45. Geo requested new tool, still running shale.  
 (G) Final Shut-In 69  Sampler \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 (H) Final Hydrostatic 1930  Straddle \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Shale Packer 250  Extra Copies \_\_\_\_\_  
 Extra Packer \_\_\_\_\_ Sub Total 0  
 Extra Recorder \_\_\_\_\_ Total 1528.65  
 Day Standby \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1528.65

Approved By \_\_\_\_\_ Our Representative Matthew A. Smith

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52024

Well Name & No. Blackwell A- #1 Test No. 6 Date 5/22/14  
 Company CHARTER Energy, Inc. Elevation 1977 KB 1971 GL  
 Address P.O. Box 252 Great Bend, Ks. 67530  
 Co. Rep / Geo. Kurt Talbot Rig Royal Drilling Rig #1  
 Location: Sec. 2 Twp. 22S Rge. 15W Co. Pawnee State KS.

Interval Tested 3842 - 3945 Zone Tested Arbuckle  
 Anchor Length 103' Drill Pipe Run 3837 Mud Wt. 9.5  
 Top Packer Depth 3837 Drill Collars Run 0 Vis 49  
 Bottom Packer Depth 3842 Wt. Pipe Run 0 WL 10.4  
 Total Depth 3945 Chlorides 7.600 ppm System LCM 0  
 Blow Description IF: Strong blow. B.O.B. 2 1/2 mins.

ISI: No blow.  
 FF: Strong blow. B.O.B. 2 1/2 mins  
 FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
93'	G.I.P	100%			
403'	Gwcm	29%		1%	70%
1550'	MW 60	37%	45%	15%	3%
558'	MW 60	15%	70%	13%	2%
124'	MW 60	9%	85%	5%	1%

Rec Total 2945' (2945) BHT 114° Gravity N.A. API RW 0.22 @ 74 ° F Chlorides 29,000 ppm  
 Test 1150  
 Jars \_\_\_\_\_  
 Safety Joint \_\_\_\_\_  
 Circ Sub \_\_\_\_\_  
 Hourly Standby \_\_\_\_\_  
 Mileage 83.9 128.65  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer ?? 250  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1528.65  
 T-On Location 0027  
 T-Started 0037  
 T-Open 0309  
 T-Pulled 0611  
 T-Out 1047  
 Comments still running shale  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1528.65  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 40

Approved By \_\_\_\_\_ Our Representative Matthew J. Smith  
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