



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1234381  
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: \_\_\_\_\_



1234381

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
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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> _____	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. 647

Date	9-26-14	Sec.	24	Twp.	13	Range	20	County	Ellis	State	Ks	On Location	Finish	11:30 PM
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--------	----------

Lease Johnston Well No. 2 Location Ellis, Ks - E on Hwy 40 to 150 Rd, 1/2 S Owner E H H

Contractor Royal 1 To Quality Oilwell Cementing, Inc.  
Type Job Surface 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 12 1/4" T.D. 259' Charge To Charter Energy  
Csg. 8 5/8" Depth 259' 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. 15' Shoe Joint 15' Cement Amount Ordered 160 Com 3% CC 2% Gel

Meas Line \_\_\_\_\_ Displace 15 1/2 BLS Common 160

EQUIPMENT			
Pumptrk	16	No. Cementer	_____
		Helper	<u>Billy</u>
Bulktrk	15	No. Driver	<u>Tyler</u>
		Driver	<u>Rick</u>
Bulktrk	p.u.	No. Driver	_____
		Driver	_____
			Pos. Mix _____
			Gel. <u>3</u>
			Calcium <u>3</u>

### JOB SERVICES & REMARKS

Remarks: Cement did Circulate. Hulls \_\_\_\_\_

Rat Hole \_\_\_\_\_ Salt \_\_\_\_\_

Mouse Hole \_\_\_\_\_ Flowseal \_\_\_\_\_

Centralizers \_\_\_\_\_ Mud CLR 48 \_\_\_\_\_

Baskets \_\_\_\_\_ CFL-117 or CD110 CAF 38 \_\_\_\_\_

D/V or Port Collar \_\_\_\_\_ Sand \_\_\_\_\_

Handling 168 Mileage \_\_\_\_\_

### FLOAT EQUIPMENT

Guide Shoe \_\_\_\_\_

Centralizer \_\_\_\_\_

Baskets \_\_\_\_\_

AFU Inserts \_\_\_\_\_

Float Shoe \_\_\_\_\_

Latch Down \_\_\_\_\_

Pumptrk Charge Surface

Mileage 14

Tax \_\_\_\_\_

Discount \_\_\_\_\_

Total Charge \_\_\_\_\_

X Signature Roy Buey



CHARGE TO: CHARTER ENERGY  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET 27944  
 PAGE 1 OF 2

SERVICE LOCATIONS  
 1. NESS CITY, KS. WELL/PROJECT NO. LEASE COUNTY PARISH STATE CITY DATE  
 2. SOANSTON #2 ELLIS, KS. 60 OCT 14  
 3. RYDAL DRILLING RIG #1 RIG NAME/NO. SHIPPED DELIVERED TO ORDER NO.  
 4. DISPOSAL DEVELOPMENT JOB PURPOSE: 5 1/2 LONGSTRINGS WELL PERMIT NO. WELL LOCATION: 25, 3E, 2N/E/S INTD

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM	QTY.		
575					A 115	15	MIL			6.00	90.00
279					Pump CHANGE	1	QDS			200.00	200.00
402					CENTRALIZERS	12	EA.			70.00	840.00
403					CEMENT BASKETS	2	EA.			300.00	600.00
405					FORMATION PACKER SHOE	1	EA.			1650.00	1650.00
408					DV TOOL & PLUG SET	1	EA.			3550.00	3550.00
417					DV LATCH DOWN PLUG & Baffle	1	EA.			200.00	200.00
281					MUD FLUSH	500	gal			1.25	625.00
281					KIBUID KCL	4	gal			25.00	100.00

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: 7 OCT 14 TIME SIGNED: 0200 A.M. P.M.

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?

PAGE TOTAL: 2

TOTAL: 19,321.20

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: [Signature] APPROVAL: [Signature]

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 27944

CUSTOMER CHARTER ENERGY

WELL JOHNSTON # 2

DATE 10 OCT 14 PAGE 21 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M	U/M	U/M	U/M	
276						FLUCELE	11D	lbs	2.50		275.00
283						SALT	900	lbs	2.00		180.00
284						CAUSEAL	8	bx	35.00		280.00
285						AIR-1	100	lbs	4.50		450.00
290						D-AIR	4	gal	42.00		168.00
325						STANDARD EA-2	175	bx	14.50		2537.50
330						SMD CEMENT	225	bx	18.50		4162.50
581						SERVICE CHARGE	400	bx	2.00		800.00
583						MIILEAGE CHARGE	813.20		1.00		813.20

CONTINUATION TOTAL 9666.20

**JOB LOG**

**SWIFT Services, Inc.**

DATE 6 Oct 14 PAGE NO.

CUSTOMER **QUARTER ENERGY** WELL NO. LEASE **JOHNSTON # 2** JOB TYPE **5 1/2 LONGSTRING** TICKET NO. **27944**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1945							ON LOCATION
	2210							START PIPE 5 1/2 15' 5" RTD @ 4027 SET @ 3888 SHOE JT. 20' CENTRALIZERS 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 47 BASKETS 2, 48 DV TOOL # 48 @ 1859
	2327						1020	SET PACKER SHOE - CIRCULATE
	2345	6	12				500	Pump 500 gal mud FLUSH
		6	20					Pump 20 Bbl KCL SPACER
	0001	4	42					MIX 175 sx EA-2
	0011							WASH OUT PUMP & LINES.
	0014	6						START DISPLACING PLUG
	0030	Ø	92				1500	PLUG DOWN LATCH PLUG IN.
	0031							RELEASE PSI - DRY
	0034							DROP DV OPENING TOOL
	0036		7.5					PLUG RH-30sx MH-20sx
	0040						1400	OPEN DV TOOL
	0041	6	20				200	Pump 20 Bbl KCL SPACER
	0045	6	97				200	MIX 175 sx SMD
	0107							WASH OUT PUMP & LINES.
	0110	6						START DISPLACING CLOSING TOOL/PLUG
	0019	Ø	44				1500	PLUG DOWN - CLOSE DV
	0020							RELEASE PSI - DRY
								* CIRCULATE 10 sx TO PIT *
	0025							WASH TRUCK
	0200							JOB COMPLETE.
								THANKS # 115
								JASON DAVE ISAAC



## DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc**

PO Box 252  
Great Bend KS 67530-0250

ATTN: Steve Baize

### **Johnston #2**

#### **24-13s-20w Ellis,KS**

Start Date: 2014.10.02 @ 23:15:38

End Date: 2014.10.03 @ 04:59:02

Job Ticket #: 60884                      DST #: 1

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

Printed: 2014.10.07 @ 15:44:54



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy Inc  
 PO Box 252  
 Great Bend KS 67530-0250  
 ATTN: Steve Baize

**24-13s-20w Ellis,KS**  
**Johnston #2**  
 Job Ticket: 60884 **DST#: 1**  
 Test Start: 2014.10.02 @ 23:15:38

## GENERAL INFORMATION:

Formation: **LKC A-D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:58:33  
 Time Test Ended: 04:59:02  
 Interval: **3444.00 ft (KB) To 3500.00 ft (KB) (TVD)**  
 Total Depth: 3500.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2116.00 ft (KB)  
 2111.00 ft (CF)  
 KB to GR/CF: 5.00 ft

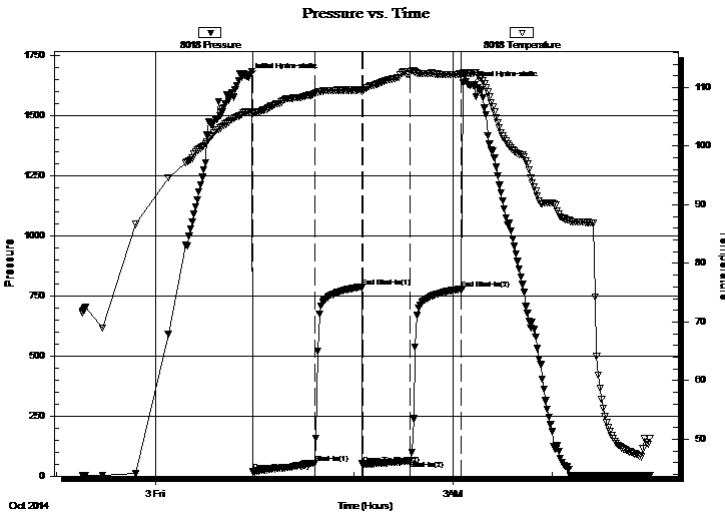
## Serial #: 8018

Inside

Press@RunDepth: 64.38 psig @ 3446.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.02 End Date: 2014.10.03 Last Calib.: 2014.10.03  
 Start Time: 23:15:38 End Time: 04:59:02 Time On Btm: 2014.10.03 @ 00:56:03  
 Time Off Btm: 2014.10.03 @ 03:10:03

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" to 2 1/2" bl  
 30-ISIP-no bl  
 30-FFP-w k bl thru-out 1/4" bl  
 30-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.27	105.87	Initial Hydro-static
3	18.94	105.59	Open To Flow (1)
40	52.27	108.96	Shut-In(1)
69	785.02	109.64	End Shut-In(1)
70	47.58	109.49	Open To Flow (2)
98	64.38	112.66	Shut-In(2)
129	777.92	112.29	End Shut-In(2)
134	1624.27	112.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	WM 40%W60%M	1.26

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy Inc

**24-13s-20w Ellis,KS**

PO Box 252  
Great Bend KS 67530-0250

**Johnston #2**

Job Ticket: 60884

**DST#: 1**

ATTN: Steve Baize

Test Start: 2014.10.02 @ 23:15:38

## Tool Information

Drill Pipe:	Length: 3453.00 ft	Diameter: 3.80 inches	Volume: 48.44 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 48.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3444.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	77.00 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			3424.00	
Shut In Tool	5.00			3429.00	
Hydraulic tool	5.00			3434.00	
Packer	5.00			3439.00	21.00 Bottom Of Top Packer
Packer	5.00			3444.00	
Stubb	1.00			3445.00	
Perforations	1.00			3446.00	
Recorder	0.00	8018	Inside	3446.00	
Recorder	0.00	8700	Outside	3446.00	
Blank Spacing	33.00			3479.00	
Perforations	18.00			3497.00	
Bullnose	3.00			3500.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 77.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy Inc

**24-13s-20w Ellis,KS**

PO Box 252  
Great Bend KS 67530-0250

**Johnston #2**

Job Ticket: 60884

**DST#: 1**

ATTN: Steve Baize

Test Start: 2014.10.02 @ 23:15:38

## 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:

54000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.73 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	WM 40%W60%M	1.262

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

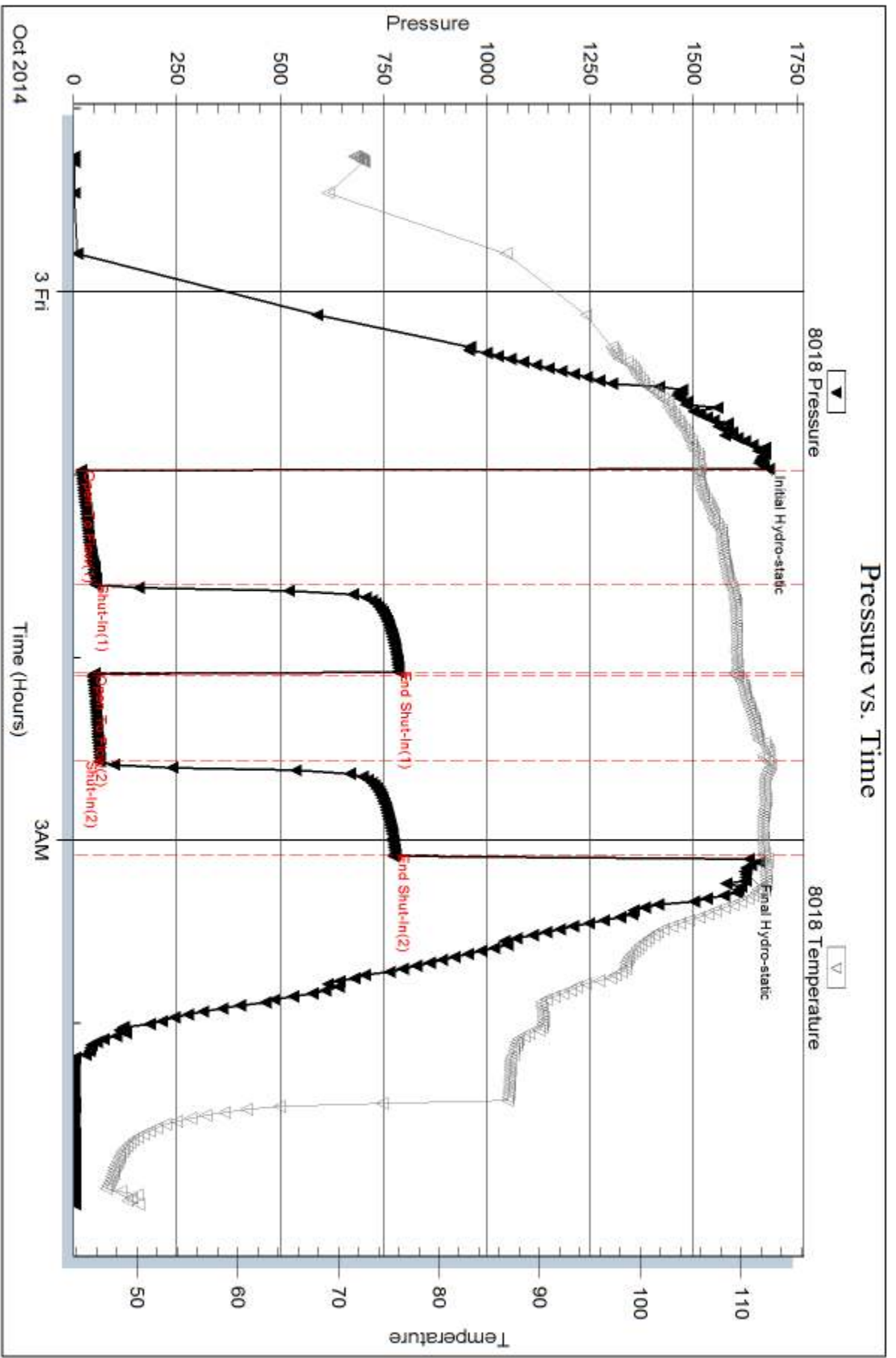
Num Gas Bombs: 0

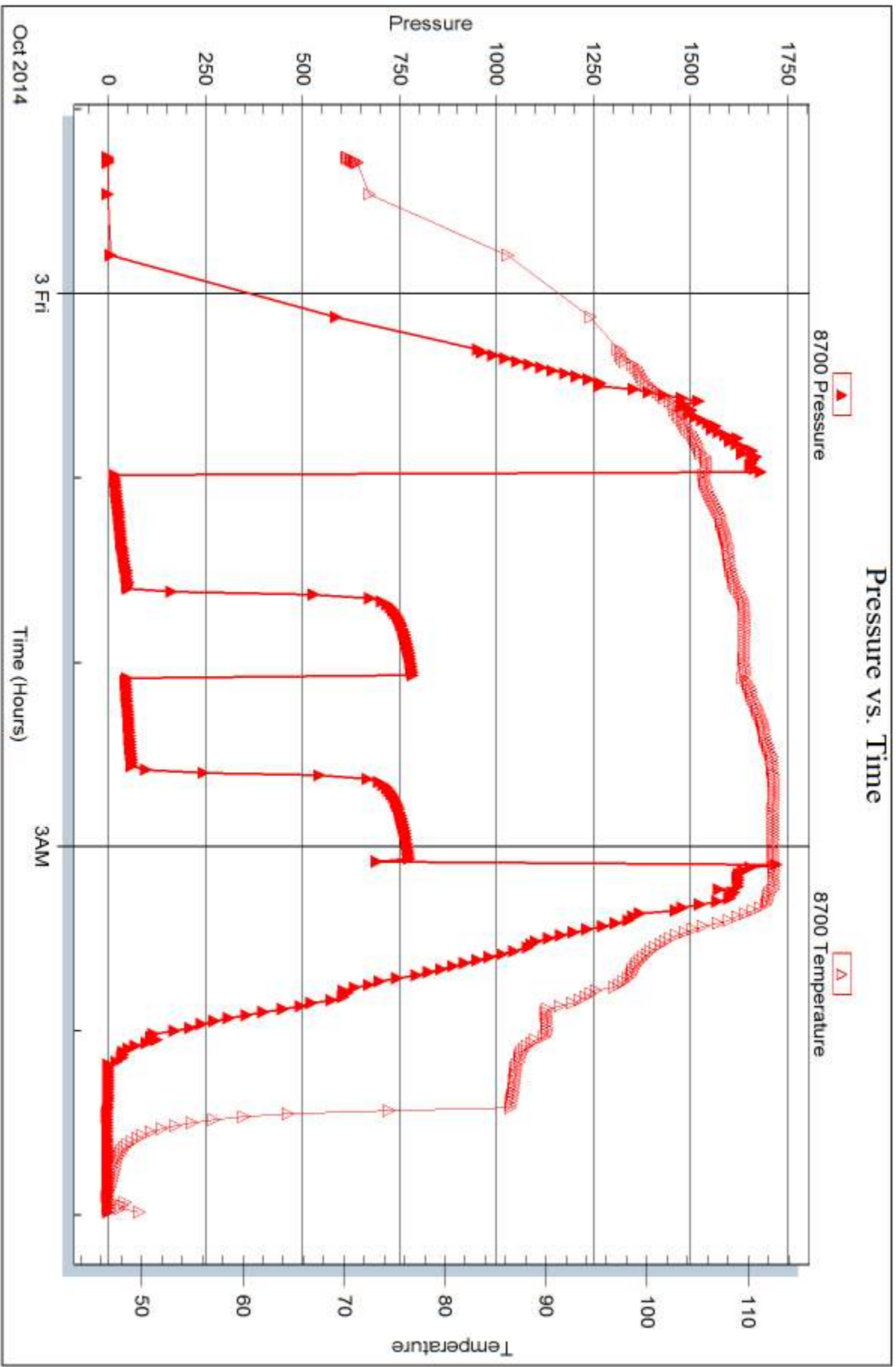
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15 65F







## DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc**

PO Box 252  
Great Bend KS 67530-0250

ATTN: Steve Baize

### **Johnston #2**

#### **24-13s-20w Ellis,KS**

Start Date: 2014.10.03 @ 13:15:49

End Date: 2014.10.03 @ 19:15:13

Job Ticket #: 60885                      DST #: 2

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

Printed: 2014.10.07 @ 15:44:20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy Inc  
 PO Box 252  
 Great Bend KS 67530-0250  
 ATTN: Steve Baize

**24-13s-20w Ellis,KS**  
**Johnston #2**  
 Job Ticket: 60885 **DST#: 2**  
 Test Start: 2014.10.03 @ 13:15:49

## GENERAL INFORMATION:

Formation: **LKC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:43:14  
 Time Test Ended: 19:15:13  
 Interval: **3500.00 ft (KB) To 3545.00 ft (KB) (TVD)**  
 Total Depth: 3545.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2116.00 ft (KB)  
 2111.00 ft (CF)  
 KB to GR/CF: 5.00 ft

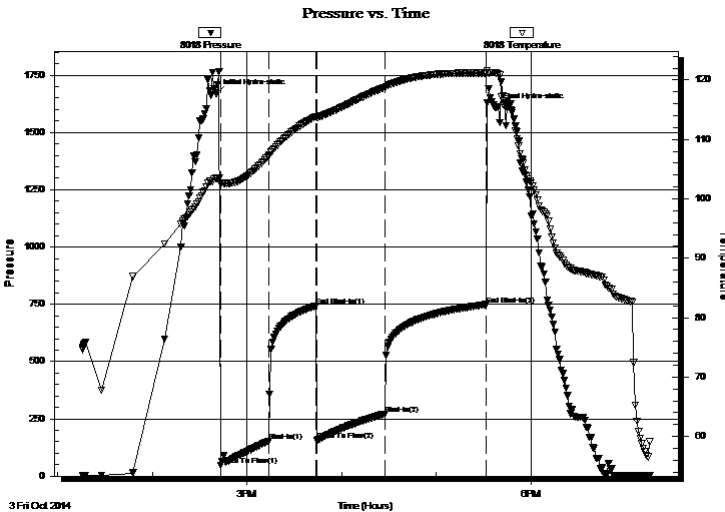
## Serial #: 8018

Inside

Press@RunDepth: 271.63 psig @ 3509.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.03 End Date: 2014.10.03 Last Calib.: 2014.10.03  
 Start Time: 13:15:49 End Time: 19:15:13 Time On Btm: 2014.10.03 @ 14:40:44  
 Time Off Btm: 2014.10.03 @ 17:37:43

TEST COMMENT: 30-IFP-strg bl in 9 min  
 30-ISIP-surface bl bk  
 45-FFP-w k to strg in 17 min  
 60-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.38	103.48	Initial Hydro-static
3	48.26	102.60	Open To Flow (1)
33	152.67	107.22	Shut-In(1)
63	742.95	113.85	End Shut-In(1)
64	156.52	113.63	Open To Flow (2)
107	271.63	118.76	Shut-In(2)
171	749.00	121.18	End Shut-In(2)
177	1607.00	121.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	MW 40%M60%W	1.12
435.00	Water	6.10

\* 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  
 PO Box 252  
 Great Bend KS 67530-0250  
 ATTN: Steve Baize

**24-13s-20w Ellis,KS**  
**Johnston #2**  
 Job Ticket: 60885 **DST#: 2**  
 Test Start: 2014.10.03 @ 13:15:49

**Tool Information**

Drill Pipe:	Length: 3485.00 ft	Diameter: 3.80 inches	Volume: 48.89 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 48.89 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3500.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	66.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3480.00	
Shut In Tool	5.00			3485.00	
Hydraulic tool	5.00			3490.00	
Packer	5.00			3495.00	21.00 Bottom Of Top Packer
Packer	5.00			3500.00	
Stubb	1.00			3501.00	
Perforations	8.00			3509.00	
Recorder	0.00	8018	Inside	3509.00	
Recorder	0.00	8700	Outside	3509.00	
Blank Spacing	33.00			3542.00	
Bullnose	3.00			3545.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy Inc

**24-13s-20w Ellis,KS**

PO Box 252  
Great Bend KS 67530-0250

**Johnston #2**

Job Ticket: 60885

**DST#: 2**

ATTN: Steve Baize

Test Start: 2014.10.03 @ 13:15:49

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 57.00 sec/qt  
Water Loss: 7.92 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 75000 ppm

## Recovery Information

Recovery Table

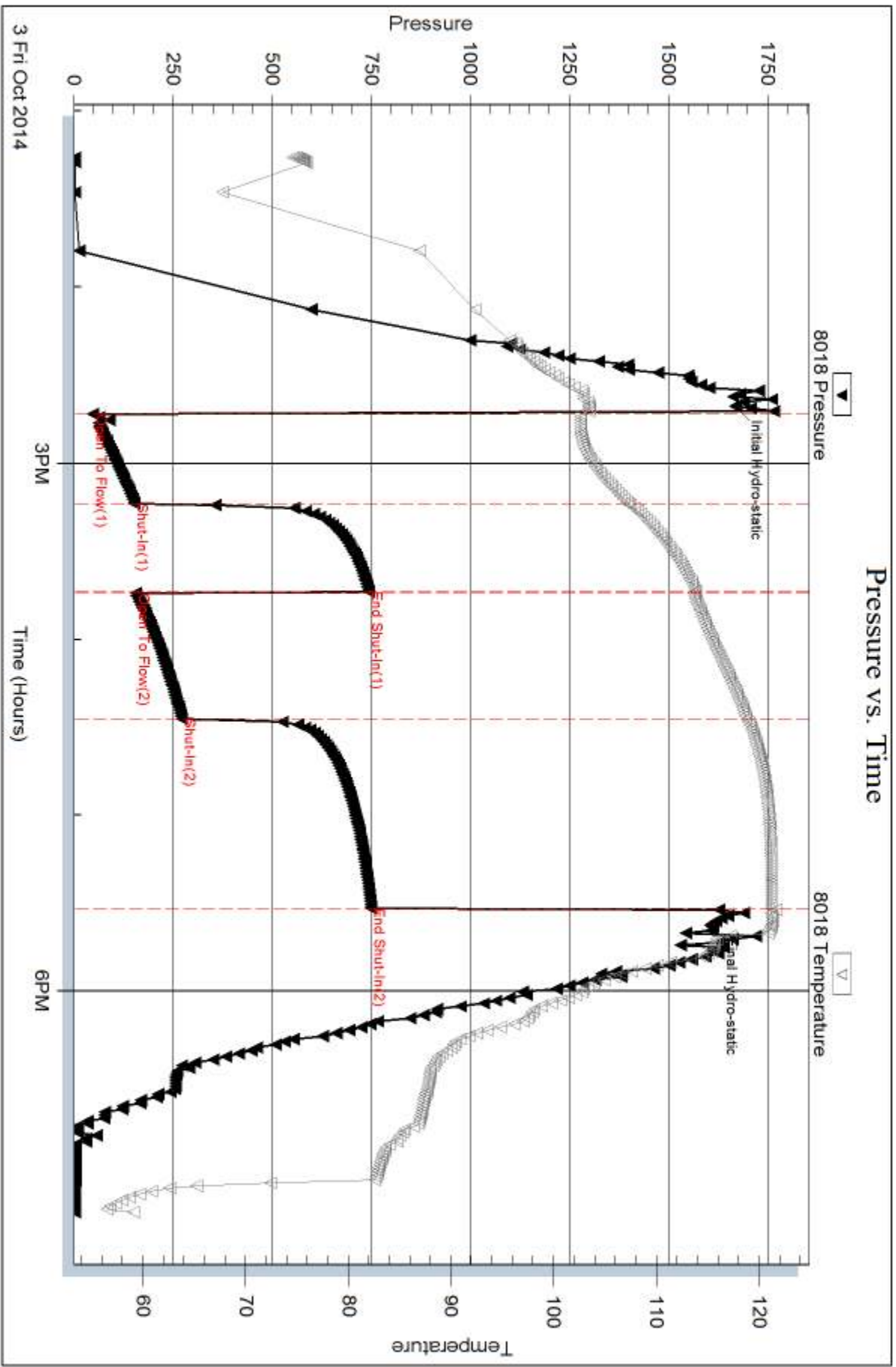
Length ft	Description	Volume bbl
80.00	MW 40%M60%W	1.122
435.00	Water	6.102

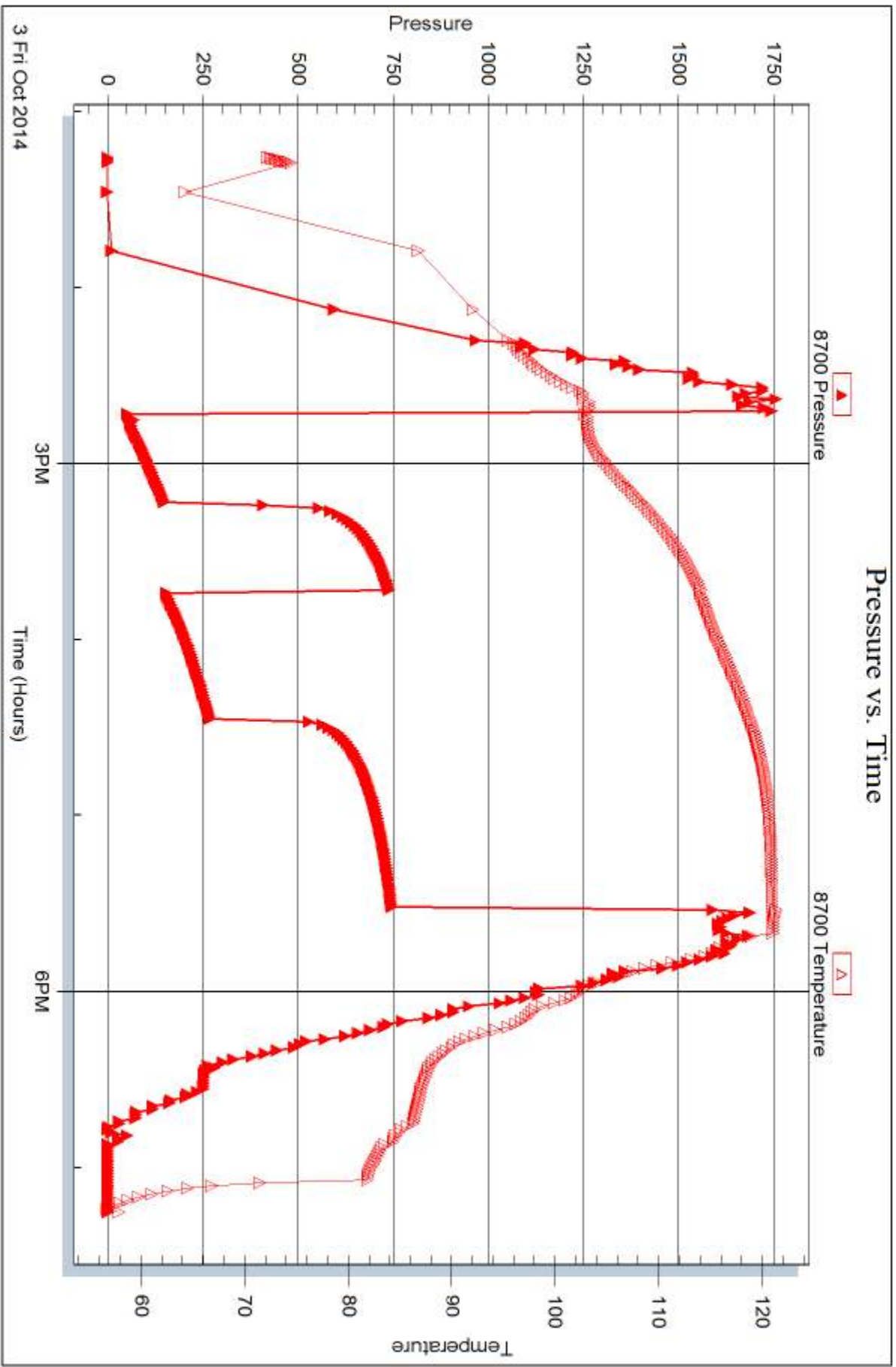
Total Length: 515.00 ft      Total Volume: 7.224 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .12 @ 65F







## DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc**

PO Box 252  
Great Bend KS 67530-0250

ATTN: Steve Baize

### **Johnston #2**

#### **24-13s-20w Ellis,KS**

Start Date: 2014.10.04 @ 08:25:44

End Date: 2014.10.04 @ 14:48:38

Job Ticket #: 60886                      DST #: 3

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

Printed: 2014.10.07 @ 15:43:48



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy Inc  
 PO Box 252  
 Great Bend KS 67530-0250  
 ATTN: Steve Baize

**24-13s-20w Ellis,KS**  
**Johnston #2**  
 Job Ticket: 60886 **DST#: 3**  
 Test Start: 2014.10.04 @ 08:25:44

## GENERAL INFORMATION:

Formation: **LKC H-K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:59:39  
 Time Test Ended: 14:48:38  
 Interval: **3600.00 ft (KB) To 3660.00 ft (KB) (TVD)**  
 Total Depth: 3660.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2116.00 ft (KB)  
 2111.00 ft (CF)  
 KB to GR/CF: 5.00 ft

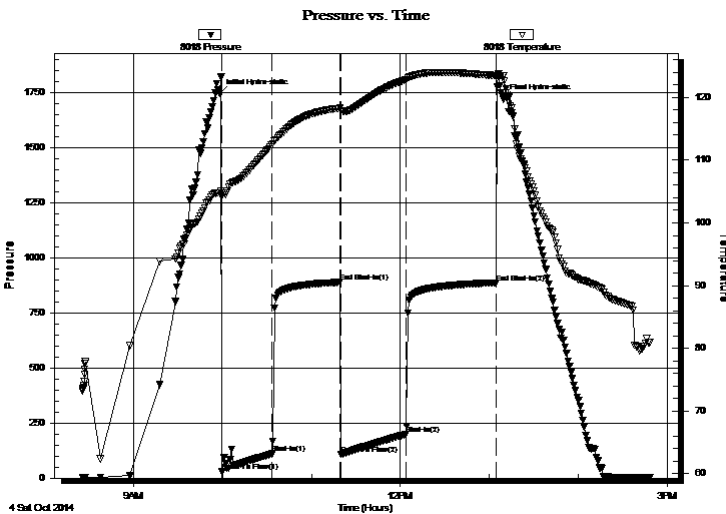
## Serial #: 8018

Inside

Press@RunDepth: 198.57 psig @ 3604.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.04 End Date: 2014.10.04 Last Calib.: 2014.10.04  
 Start Time: 08:25:44 End Time: 14:48:38 Time On Btm: 2014.10.04 @ 09:58:09  
 Time Off Btm: 2014.10.04 @ 13:09:38

TEST COMMENT: 30-IFP-w k to strg in 25 min  
 45-ISIP-no bl bk  
 45-FFP-w k to strg in 40 min  
 60-FSIP-no bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1743.19	104.83	Initial Hydro-static
2	28.89	104.21	Open To Flow (1)
36	110.36	112.48	Shut-In(1)
81	888.64	118.29	End Shut-In(1)
82	109.28	117.93	Open To Flow (2)
126	198.57	122.84	Shut-In(2)
187	886.61	123.46	End Shut-In(2)
192	1719.79	123.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 30%M70%W w/show of oil	0.84
310.00	Water	4.35

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy Inc  
PO Box 252  
Great Bend KS 67530-0250  
ATTN: Steve Baize

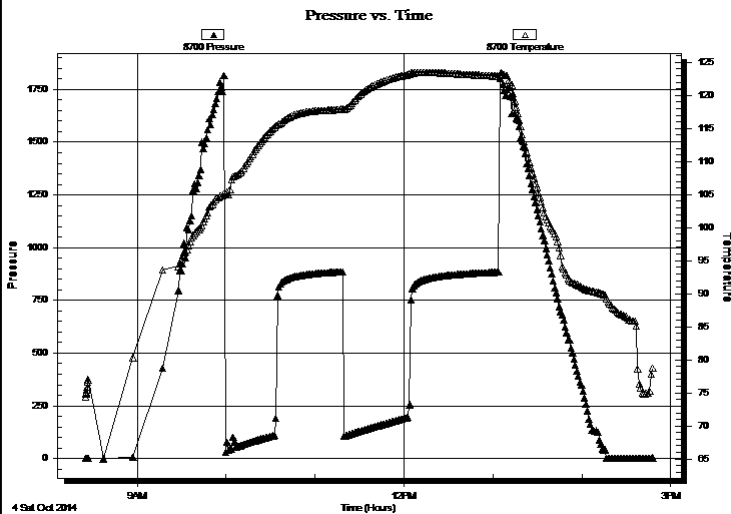
**24-13s-20w Ellis, KS**  
**Johnston #2**  
Job Ticket: 60886 **DST#: 3**  
Test Start: 2014.10.04 @ 08:25:44

## GENERAL INFORMATION:

Formation: **LKC H-K**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:59:39  
Time Test Ended: 14:48:38  
Interval: **3600.00 ft (KB) To 3660.00 ft (KB) (TVD)**  
Total Depth: 3660.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches Hole Condition: Fair  
Reference Elevations: 2116.00 ft (KB)  
2111.00 ft (CF)  
KB to GR/CF: 5.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 70

**Serial #: 8700** **Outside**  
Press@RunDepth: psig @ 3604.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.10.04 End Date: 2014.10.04 Last Calib.: 2014.10.04  
Start Time: 08:25:16 End Time: 14:48:10 Time On Btm:  
Time Off Btm:

TEST COMMENT: 30-IFP-w k to strg in 25 min  
45-ISIP-no bl bk  
45-FFP-w k to strg in 40 min  
60-FSIP-no bl bk



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 30%M70%W w/show of oil	0.84
310.00	Water	4.35

\* 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  
 PO Box 252  
 Great Bend KS 67530-0250  
 ATTN: Steve Baize

**24-13s-20w Ellis,KS**  
**Johnston #2**  
 Job Ticket: 60886 **DST#: 3**  
 Test Start: 2014.10.04 @ 08:25:44

**Tool Information**

Drill Pipe:	Length: 3595.00 ft	Diameter: 3.80 inches	Volume: 50.43 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3600.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3580.00	
Shut In Tool	5.00			3585.00	
Hydraulic tool	5.00			3590.00	
Packer	5.00			3595.00	21.00 Bottom Of Top Packer
Packer	5.00			3600.00	
Stubb	1.00			3601.00	
Perforations	3.00			3604.00	
Recorder	0.00	8018	Inside	3604.00	
Recorder	0.00	8700	Outside	3604.00	
Blank Spacing	33.00			3637.00	
Perforations	20.00			3657.00	
Bullnose	3.00			3660.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy Inc

**24-13s-20w Ellis,KS**

PO Box 252  
Great Bend KS 67530-0250

**Johnston #2**

Job Ticket: 60886

**DST#: 3**

ATTN: Steve Baize

Test Start: 2014.10.04 @ 08:25:44

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 7.76 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3800.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 85000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MW 30%M70%W w/show of oil	0.842
310.00	Water	4.348

Total Length: 370.00 ft      Total Volume: 5.190 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

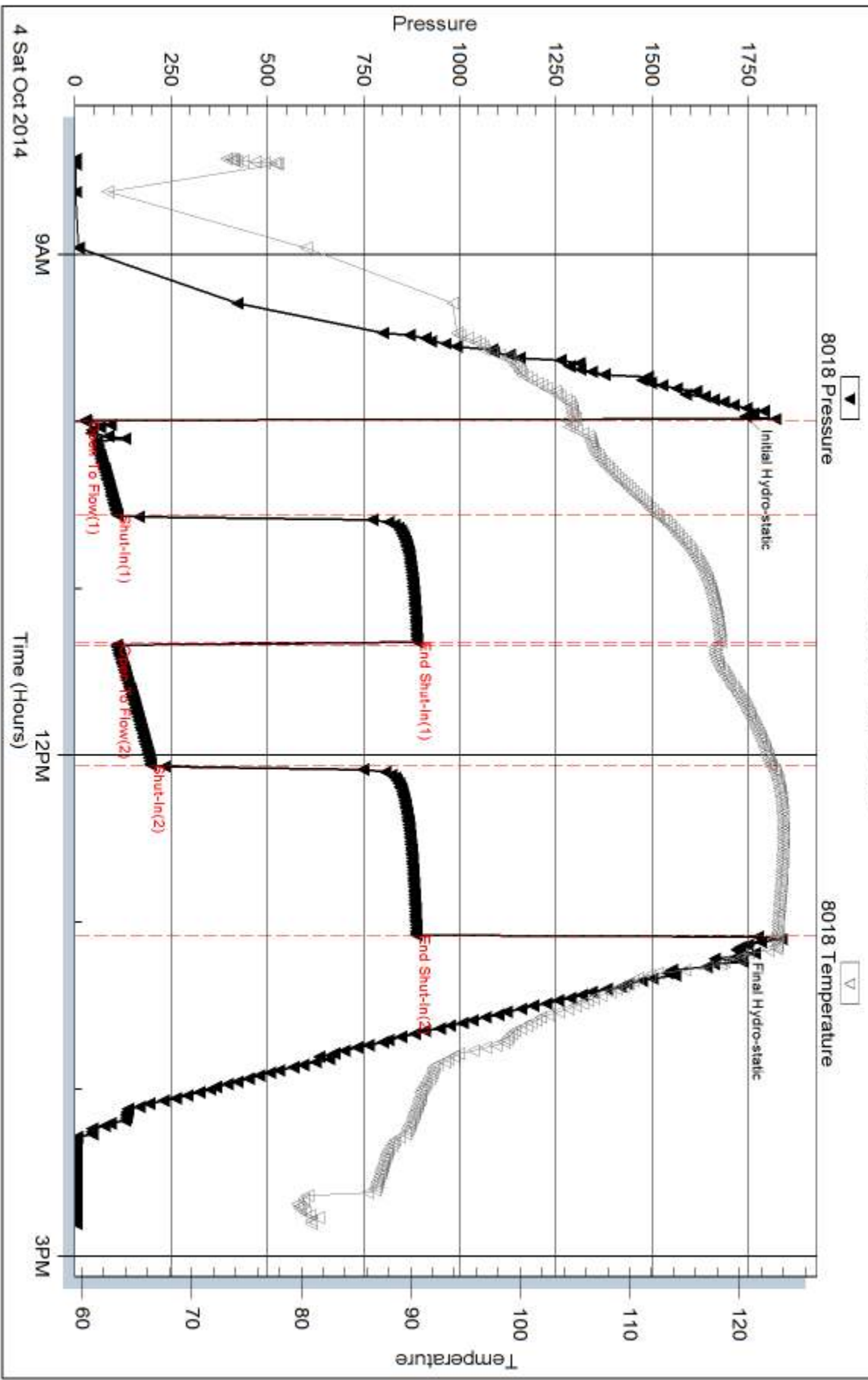
Serial #:

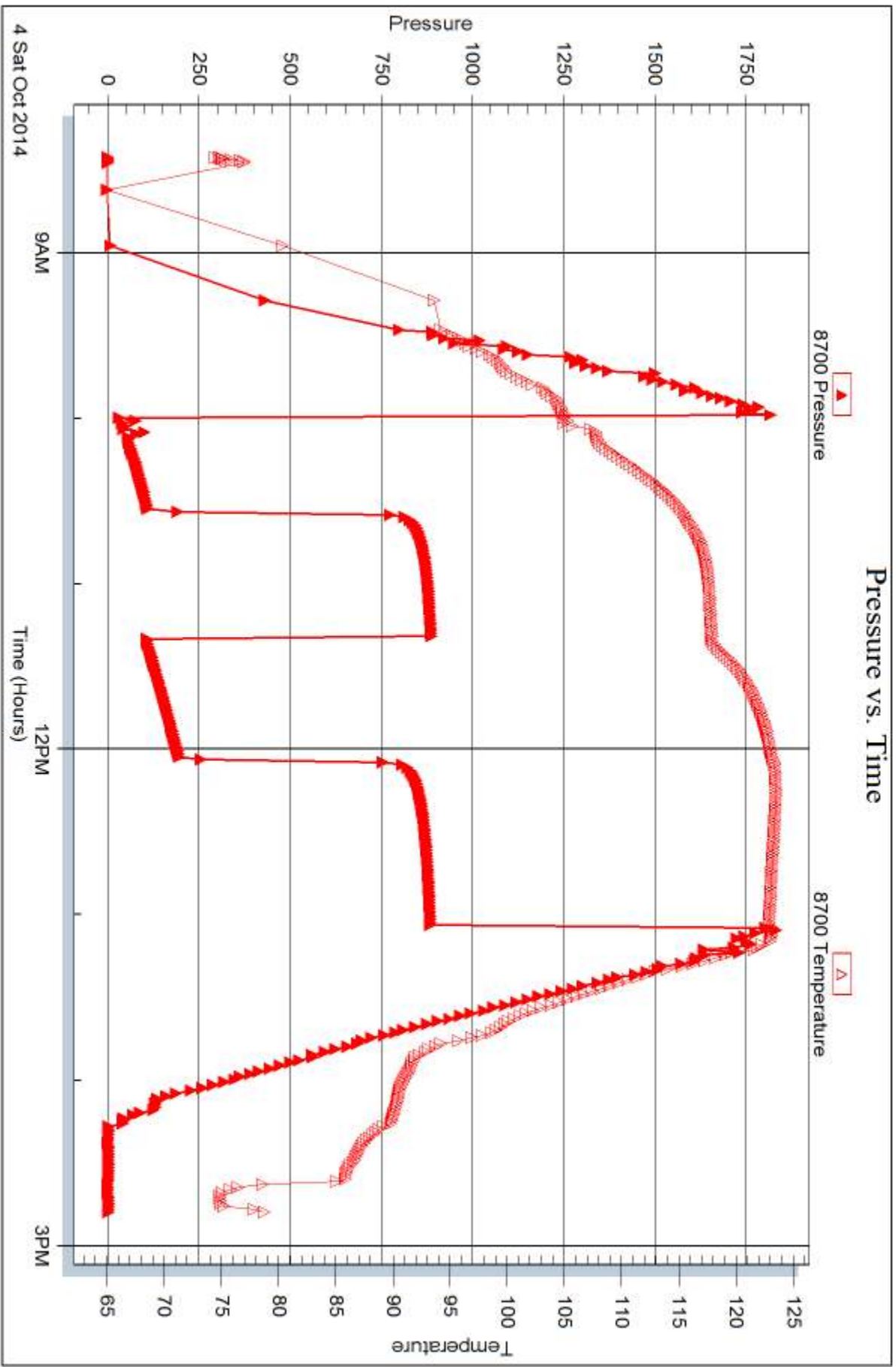
Laboratory Name:

Laboratory Location:

Recovery Comments: RW ..09@70F

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc**

PO Box 252  
Great Bend KS 67530-0250

ATTN: Steve Baize

### **Johnston #2**

#### **24-13s-20w Ellis,KS**

Start Date: 2014.10.05 @ 09:10:32

End Date: 2014.10.05 @ 15:37:26

Job Ticket #: 60887                      DST #: 4

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

Printed: 2014.10.07 @ 15:43:14



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy Inc  
 PO Box 252  
 Great Bend KS 67530-0250  
 ATTN: Steve Baize

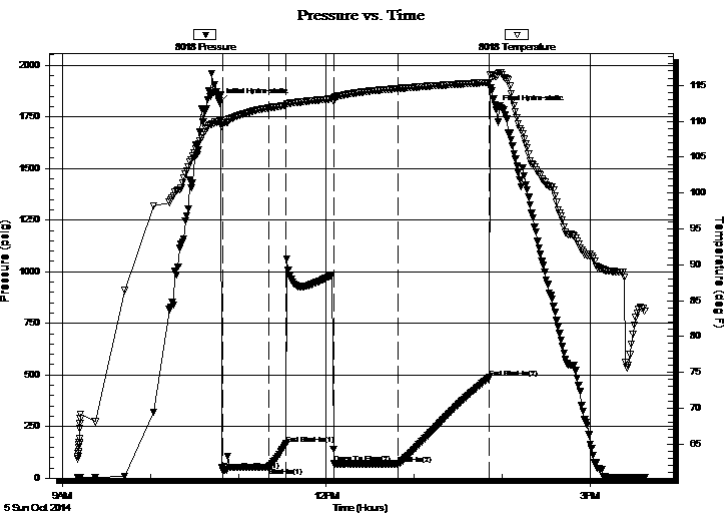
**24-13s-20w Ellis,KS**  
**Johnston #2**  
 Job Ticket: 60887 **DST#: 4**  
 Test Start: 2014.10.05 @ 09:10:32

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:49:27  
 Time Test Ended: 15:37:26  
 Interval: **3700.00 ft (KB) To 3792.00 ft (KB) (TVD)**  
 Total Depth: 3792.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2116.00 ft (KB)  
 2111.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8018 Inside**  
 Press@RunDepth: 68.91 psig @ 3704.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.05 End Date: 2014.10.05 Last Calib.: 2014.10.05  
 Start Time: 09:10:32 End Time: 15:37:26 Time On Btm: 2014.10.05 @ 10:47:27  
 Time Off Btm: 2014.10.05 @ 13:55:56

TEST COMMENT: 30-IFP-w k to a fr bl 1/2" to 4" bl  
 45-ISIP-no bl  
 45-FFP-w k bl thru-out 1/2" to 2 1/2" bl  
 60-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.37	110.00	Initial Hydro-static
2	37.26	109.78	Open To Flow (1)
33	51.81	111.85	Shut-In(1)
45	166.12	112.22	End Shut-In(1)
78	69.36	113.31	Open To Flow (2)
122	68.91	114.55	Shut-In(2)
184	486.46	115.43	End Shut-In(2)
189	1784.01	116.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	WM 25% W75%M	1.26

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy Inc  
PO Box 252  
Great Bend KS 67530-0250  
ATTN: Steve Baize

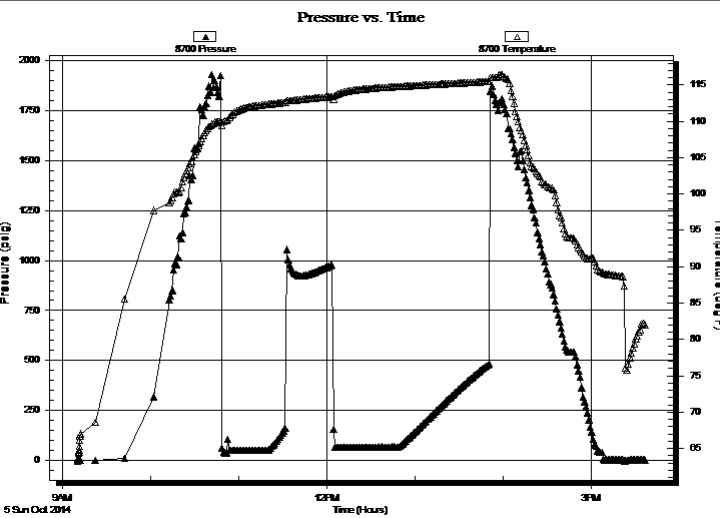
**24-13s-20w Ellis,KS**  
**Johnston #2**  
Job Ticket: 60887 **DST#: 4**  
Test Start: 2014.10.05 @ 09:10:32

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:49:27  
Time Test Ended: 15:37:26  
Interval: **3700.00 ft (KB) To 3792.00 ft (KB) (TVD)**  
Total Depth: 3792.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches Hole Condition: Fair  
Reference Elevations: 2116.00 ft (KB)  
2111.00 ft (CF)  
KB to GR/CF: 5.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 70

**Serial #: 8700 Outside**  
Press@RunDepth: psig @ 3704.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.10.05 End Date: 2014.10.05 Last Calib.: 2014.10.05  
Start Time: 09:10:15 End Time: 15:37:09 Time On Btm:  
Time Off Btm:

TEST COMMENT: 30-IFP-w k to a fr bl 1/2" to 4" bl  
45-ISIP-no bl  
45-FFP-w k bl thru-out 1/2" to 2 1/2" bl  
60-FSIP-no bl



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
90.00	WM 25% W75%M	1.26

\* 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

**24-13s-20w Ellis,KS**

PO Box 252  
Great Bend KS 67530-0250

**Johnston #2**

Job Ticket: 60887

**DST#: 4**

ATTN: Steve Baize

Test Start: 2014.10.05 @ 09:10:32

## Tool Information

Drill Pipe:	Length: 3705.00 ft	Diameter: 3.80 inches	Volume: 51.97 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 51.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3700.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	113.00 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			3680.00	
Shut In Tool	5.00			3685.00	
Hydraulic tool	5.00			3690.00	
Packer	5.00			3695.00	21.00 Bottom Of Top Packer
Packer	5.00			3700.00	
Stubb	1.00			3701.00	
Perforations	3.00			3704.00	
Recorder	0.00	8018	Inside	3704.00	
Recorder	0.00	8700	Outside	3704.00	
Blank Spacing	65.00			3769.00	
Perforations	20.00			3789.00	
Bullnose	3.00			3792.00	92.00 Bottom Packers & Anchor

**Total Tool Length: 113.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy Inc

**24-13s-20w Ellis,KS**

PO Box 252  
Great Bend KS 67530-0250

**Johnston #2**

Job Ticket: 60887

**DST#: 4**

ATTN: Steve Baize

Test Start: 2014.10.05 @ 09:10:32

## 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:

23000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.48 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	WM 25%W75%M	1.262

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

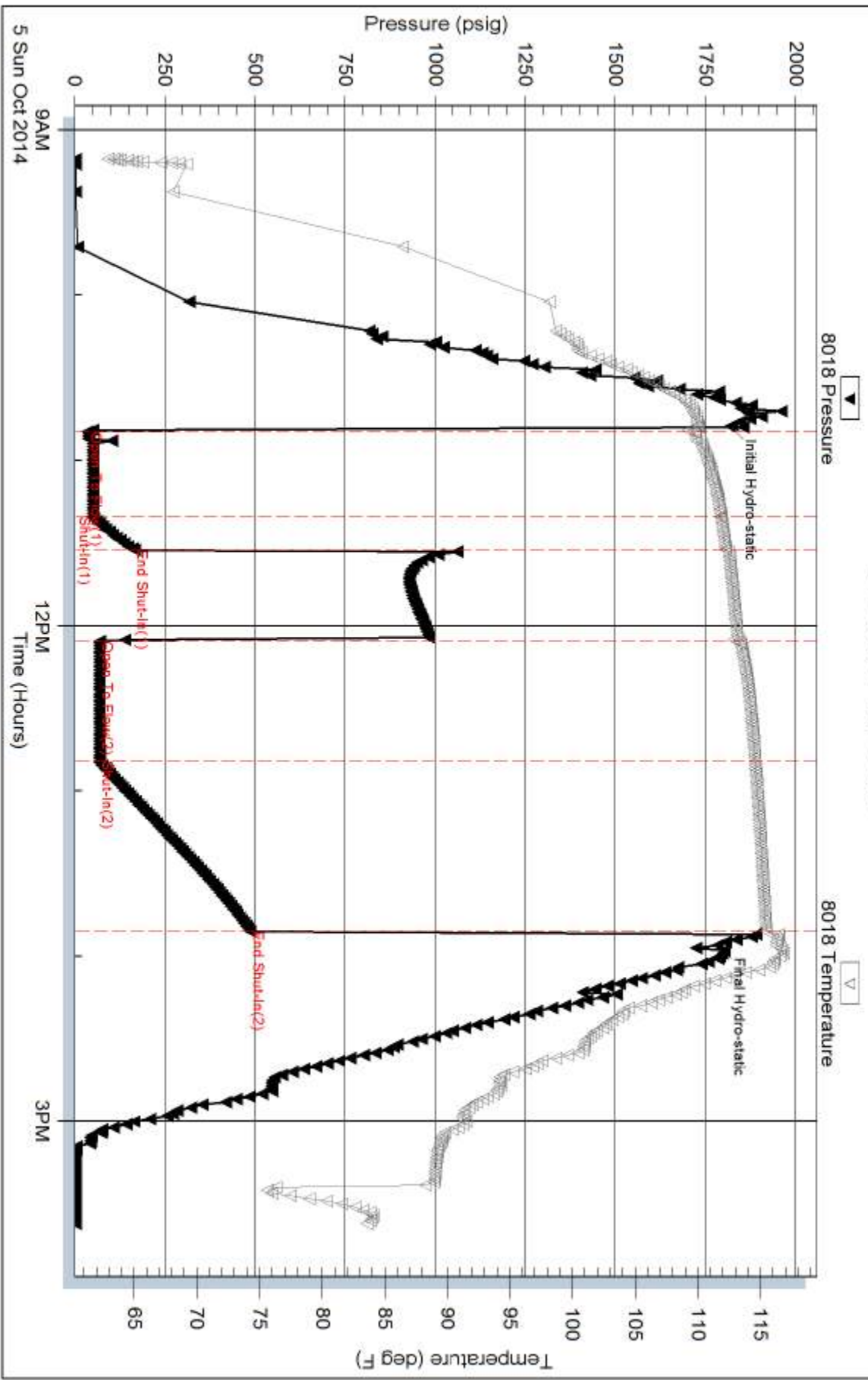
Laboratory Name:

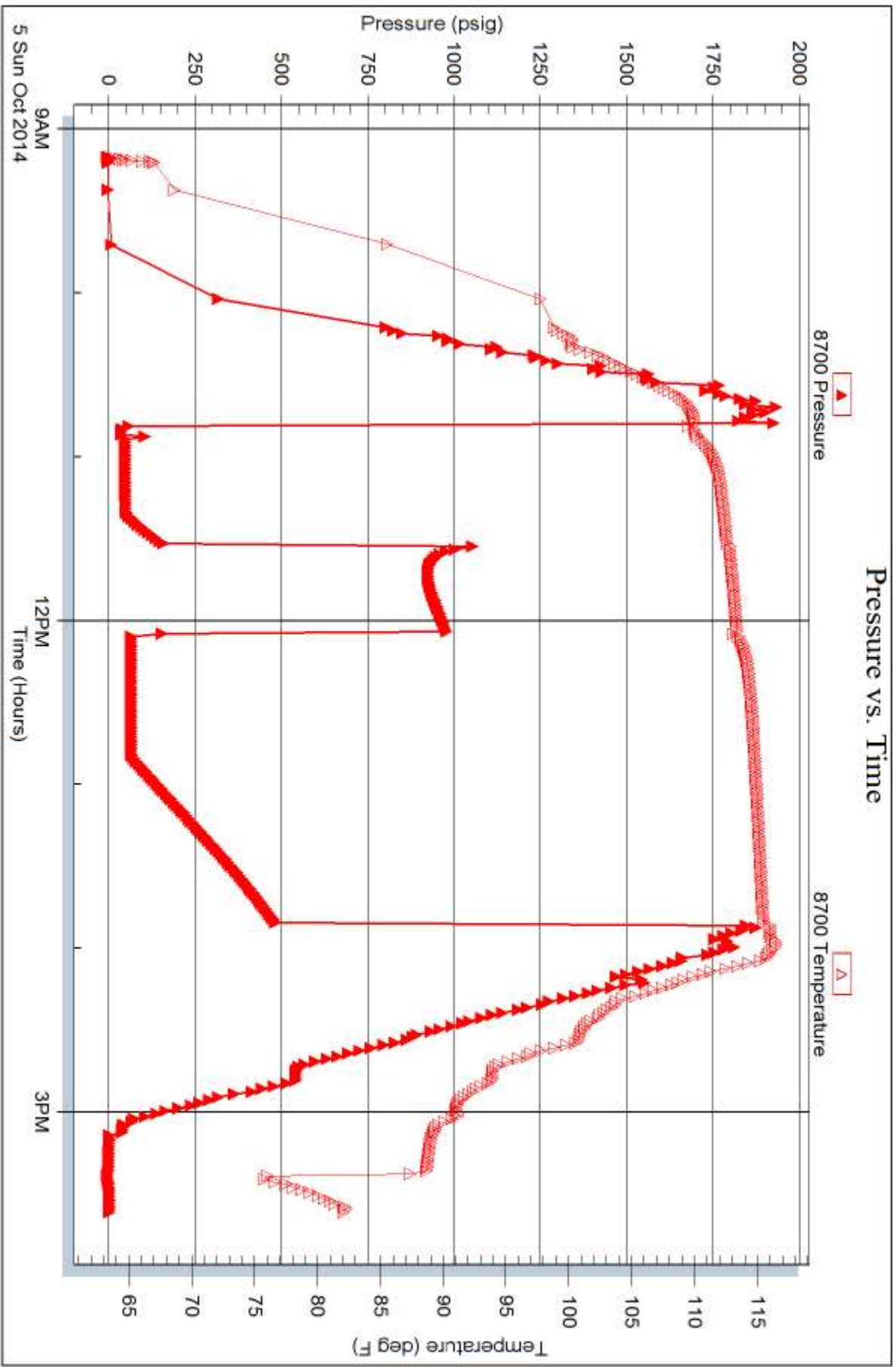
Laboratory Location:

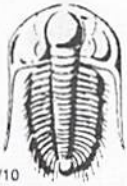
Recovery Comments: RW .4@ 55F



### Pressure vs. Time







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60884

Well Name & No. Johnston #2 Test No. 1 Date 10-2-14  
 Company CHARTER Energy, Inc Elevation 2116 KB 2111 GL  
 Address PO Box 252 GREAT Bend, Ks 67530-0250  
 Co. Rep / Geo. Kurt TALHATT Rig Royalrig1  
 Location: Sec. 24 Twp. 13<sup>s</sup> Rge. 20<sup>w</sup> Co. Ellis State Ks

Interval Tested 3444-3500 Zone Tested LKC A-0  
 Anchor Length 56 Drill Pipe Run 3453 Mud Wt. 9.1  
 Top Packer Depth 3439 Drill Collars Run - Vis 49  
 Bottom Packer Depth 3444 Wt. Pipe Run - WL 7.8  
 Total Depth 3500 Chlorides 1600 ppm System LCM 1#  
 Blow Description IFP-Weak Blow thru-out 1/2" to 2 1/2" Blow  
ISIP-NO Blow  
FFA-Weak Blow thru-out- 1/4" Blow  
FSIP-NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>WM</u>		<u>40</u>	<u>60</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

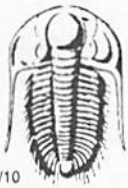
Rec Total 90 BHT 112 Gravity - API RW .15 @ 65 ° F Chlorides 54000 ppm  
 Test 1150 T-On Location 2925  
 Jars \_\_\_\_\_ T-Started 2315  
 Safety Joint \_\_\_\_\_ T-Open 0055  
 Circ Sub \_\_\_\_\_ T-Pulled 0255  
 Hourly Standby \_\_\_\_\_ T-Out 0459  
 Mileage 32 RT 49.60 Comments \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1199.60 MP/DST Disc't \_\_\_\_\_

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

Sub Total 1199.60

Approved By \_\_\_\_\_ Our Representative RAY Schwager Thank you

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. 60885

Well Name & No. Johnston #2 Test No. 2 Date 10-3-14  
 Company CHARTER Energy, Inc Elevation 2116 KB 2111 GL  
 Address PO Box 252 GREAT BEND, Ks 67530-0250  
 Co. Rep / Geo. KURT TALBATT Rig Royal rig 1  
 Location: Sec. 24 Twp. 13<sup>s</sup> Rge. 20<sup>w</sup> Co. ELLIS State Ks

Interval Tested 3500-3545 Zone Tested LKC  
 Anchor Length 45 Drill Pipe Run 3485 Mud Wt. 9.1  
 Top Packer Depth 3495 Drill Collars Run - Vis 57  
 Bottom Packer Depth 3500 Wt. Pipe Run - WL 8  
 Total Depth 3545 Chlorides 4000 ppm System LCM 1#

Blow Description IFP - STRONG BLOW IN 9 MIN  
TSIP - SURFACE BLOW BACK  
FFP - WEAK TO STRONG IN 17 MIN  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>MLW</u>		<u>60</u>	<u>40</u>	
<u>435</u>	<u>WATER</u>				

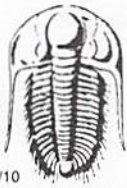
Rec Total 515 BHT 121 Gravity - API RW. 12 @ 65 °F Chlorides 75000 ppm

(A) Initial Hydrostatic 1669  Test 1150 T-On Location 1235  
 (B) First Initial Flow 48  Jars \_\_\_\_\_ T-Started 1315  
 (C) First Final Flow 152  Safety Joint \_\_\_\_\_ T-Open 1445  
 (D) Initial Shut-In 742  Circ Sub \_\_\_\_\_ T-Pulled 1730  
 (E) Second Initial Flow 156  Hourly Standby \_\_\_\_\_ T-Out 1915  
 (F) Second Final Flow 271  Mileage 32 RT 49.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 749  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1607  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Copies \_\_\_\_\_  
 Final Shut-In 60  Sub Total 0  
 Sub Total 1199.60 Total 1199.60  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGN Thank you

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. 60886

Well Name & No. Johnston #2 Test No. 3 Date 10-4-14  
 Company CHARTER Energy Inc Elevation 2116 KB 2111 GL  
 Address PO Box 252 GREAT Bend, Ks 67530-0250  
 Co. Rep / Geo. CLINT Musgrove Rig Royal rig 1  
 Location: Sec. 24 Twp. 13<sup>s</sup> Rge. 20<sup>w</sup> Co. ELLIS State Ks

Interval Tested 3600-3660 Zone Tested LKC H-Ks  
 Anchor Length 60 Drill Pipe Run 3595 Mud Wt. 9.2  
 Top Packer Depth 3595 Drill Collars Run - Vis 55  
 Bottom Packer Depth 3600 Wt. Pipe Run - WL 7.8  
 Total Depth 3660 Chlorides 3800 ppm System LCM 2#

Blow Description IFP - WEAK TO STRONG IN 25 MIN  
ISIP - NO BLOW  
FFP - WEAK TO STRONG IN 40 MIN  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>MW w/show of oil</u>			<u>70</u>	<u>30</u>
<u>310</u>	<u>WATER</u>				

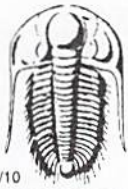
Rec Total 370 BHT 123 Gravity - API RW .09 @ 70 ° F Chlorides 85000 ppm

(A) Initial Hydrostatic 1743  Test 1150 T-On Location 0725  
 (B) First Initial Flow 28  Jars \_\_\_\_\_ T-Started 0825  
 (C) First Final Flow 110  Safety Joint \_\_\_\_\_ T-Open 1005  
 (D) Initial Shut-In 888  Circ Sub \_\_\_\_\_ T-Pulled 1305  
 (E) Second Initial Flow 109  Hourly Standby \_\_\_\_\_ T-Out 1448  
 (F) Second Final Flow 198  Mileage 32 RT 49.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 886  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1719  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 1199.60  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1199.60

Approved By \_\_\_\_\_ Our Representative Ray Schwager Thank you

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60887

Well Name & No. Johnston #2 Test No. 4 Date 10-5-14  
 Company CHAETER Energy Inc Elevation 2116 KB 2116 GL  
 Address PO Box 252 GREAT Bend, Ks 67530-0250  
 Co. Rep / Geo. CLINT Musgeoe Rig Royal rig 1  
 Location: Sec. 24 Twp. 13<sup>s</sup> Rge. 20<sup>w</sup> Co. ELLIS State Ks

Interval Tested 3700-3792 Zone Tested Arbuckle  
 Anchor Length 92 Drill Pipe Run 3705 Mud Wt. 9.3  
 Top Packer Depth 3695 Drill Collars Run - Vis 52  
 Bottom Packer Depth 3700 Wt. Pipe Run - WL 7.5  
 Total Depth 3792 Chlorides 3800 ppm System LCM 1#

Blow Description IFP - WEAK TO A FAIR BLOW 1/2" TO 4" BLOW  
ISTP - NO BLOW  
FFP - WEAK BLOW THRU-OUT 1/2" TO 2 1/2" BLOW  
FSTP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>WM</u>		<u>25</u>	<u>75</u>	
	<u>w/slight show of oil</u>				

Rec Total 90 BHT 115 Gravity - API RW .4 @ 55 ° F Chlorides 23000 ppm

(A) Initial Hydrostatic  Test 1150 T-On Location 0840  
 (B) First Initial Flow  Jars \_\_\_\_\_ T-Started 0910  
 (C) First Final Flow  Safety Joint \_\_\_\_\_ T-Open 1050  
 (D) Initial Shut-In  Circ Sub \_\_\_\_\_ T-Pulled 1350  
 (E) Second Initial Flow  Hourly Standby \_\_\_\_\_ T-Out 1537  
 (F) Second Final Flow  Mileage 32RT 49.60  
 (G) Final Shut-In  Sampler \_\_\_\_\_ 49.60  
 (H) Final Hydrostatic  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Comments Loaded Tool 10-5-14  
2330

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

Sub Total 1249.20

Total 1249.20

MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative RAY Schwager Thank you

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