



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1226660
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: _____



1226660

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

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> <i>(Submit ACO-4)</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

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

No. 382

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-28-14	30	15	17	Ellis	KS		9:15A.m.
Location <i>major los Eintra</i>							

Lease	Well No. 1	Owner
<i>Worth A</i>		To Quality Oilwell Cementing, Inc.
Contractor		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
<i>Royal Drilling #1</i>		
Type Job		
<i>Surface</i>		

Hole Size	T.D.	Charge To
<i>12 1/4</i>	<i>1071</i>	<i>Charter Energy</i>
Csg.	Depth	Street
<i>8 5/8 28#</i>	1071	
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	Cement Amount Ordered
<i>20</i>	<i>20</i>	<i>4500cm 3/11 2/62</i>

Meas Line	Displace	Common
	<i>105 1/2 BCL</i>	<i>450</i>

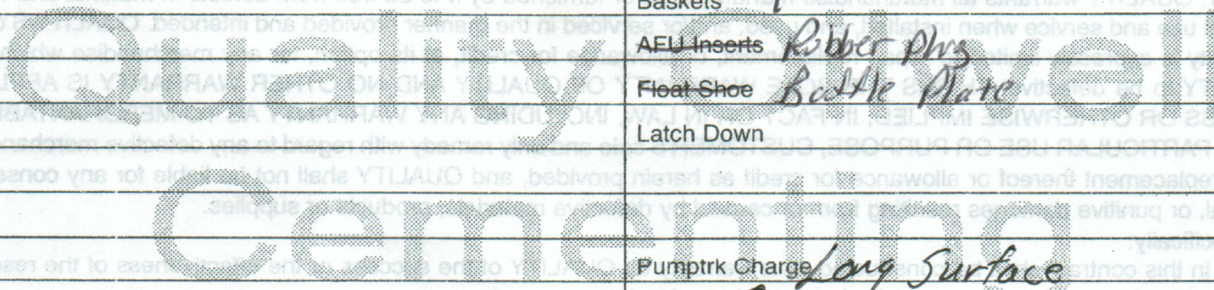
EQUIPMENT			JOB SERVICES & REMARKS		
Pumptrk	No.	Cementer			
<i>5</i>		<i>Craig</i>			
		Helper			
Bulktrk	No.	Driver			
		<i>David</i>			
		Driver			
Bulktrk	No.	Driver			
<i>4</i>		<i>Connem</i>			
		Driver			

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<i>8 5/8 on bottom Rest Circulation</i>	Sand
<i>Mix 450 CM + Displace Plug</i>	Handling <i>476</i>
<i>Cement Circulated</i>	Mileage

FLOAT EQUIPMENT	
Guide Shoe	<i>8 5/8</i>
Centralizer	<i>1</i>
Baskets	<i>1</i>
AELI Inserts	<i>Rubber Plug</i>
Float Shoe	<i>Beetle Plate</i>
Latch Down	

Pumptrk Charge	<i>Long Surface</i>
Mileage	<i>9</i>

	Tax
	Discount
X Signature <i>Dave Buey</i>	Total Charge



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 293

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-3-14	30	15	17	Ellis	KS		10:30 AM

Location *Munger, 65*

Lease <i>Worth A</i>	Well No. <i>1</i>	Owner
Contractor <i>Royal</i>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.
Type Job <i>Plug</i>		
Hole Size <i>7 7/8</i>	T.D. <i>3565</i>	Charge To <i>Charter Energy Inc.</i>
Csg.	Depth	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <i>235 sx 60/40 4% gel 1/4 # Plov</i>
Meas Line	Displace	

EQUIPMENT

Pumptrk <i>17</i>	No.	Cementor	Common <i>141</i>
		Helper <i>Loniw.</i>	Poz. Mix <i>94</i>
Bulktrk <i>9</i>	No.	Driver	Gel. <i>8</i>
		Driver <i>Chad</i>	
Bulktrk <i>P4</i>	No.	Driver	Calcium
		Driver <i>Travis</i>	

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole <i>30</i>	Salt
Mouse Hole <i>15</i>	Flowseal <i>60#</i>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<i>50sxat 3498</i>	Sand
<i>50sxat 1125</i>	Handling <i>243</i>
<i>80sxat 475</i>	Mileage
<i>10sxat 40 with plug</i>	

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	<i>1 wood plug</i>
	Pumptrk Charge <i>plug</i>
	Mileage <i>9</i>

Tax

Discount

Total Charge

X Signature *Roy Buzg*



DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

Werth #A-1

30-15s-17w Ellis,KS

Start Date: 2014.08.31 @ 18:45:51

End Date: 2014.09.01 @ 00:46:51

Job Ticket #: 58398 DST #: 1

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

Printed: 2014.09.04 @ 14:56:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

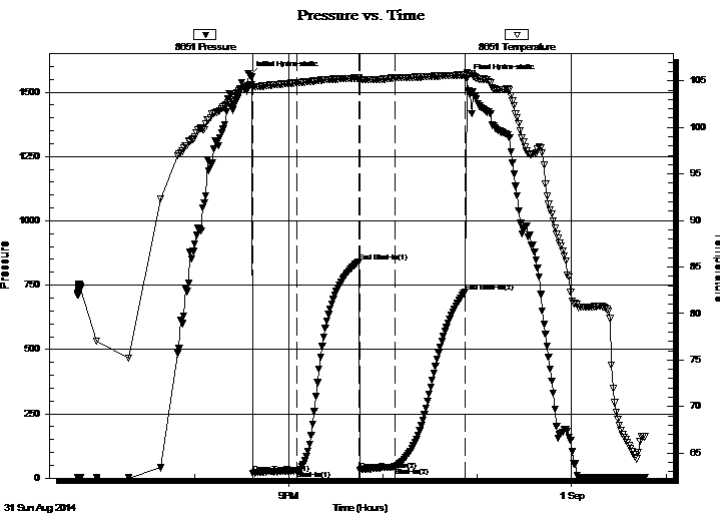
30-15s-17w Ellis,KS
Werth #A-1
Job Ticket: 58398 **DST#: 1**
Test Start: 2014.08.31 @ 18:45:51

GENERAL INFORMATION:

Formation: **Toronto - LKC"F"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 20:37:21 Tester: Brannan Lonsdale
Time Test Ended: 00:46:51 Unit No: 62
Interval: 3151.00 ft (KB) To 3285.00 ft (KB) (TVD) Reference Elevations: 1910.00 ft (KB)
Total Depth: 3285.00 ft (KB) (TVD) 1903.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8651 Inside
Press@RunDepth: 43.29 psig @ 3152.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.31 End Date: 2014.09.01 Last Calib.: 2014.09.01
Start Time: 18:45:52 End Time: 00:46:51 Time On Btm: 2014.08.31 @ 20:35:21
Time Off Btm: 2014.08.31 @ 22:53:21

TEST COMMENT: 30- IF- Slow ly built to 2"
45- IS- No blow
30- FF- Slow ly built to 1"
45- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1564.28	104.57	Initial Hydro-static
2	19.58	104.29	Open To Flow (1)
30	28.30	104.81	Shut-In(1)
70	840.72	105.31	End Shut-In(1)
70	30.68	105.11	Open To Flow (2)
93	43.29	105.33	Shut-In(2)
137	723.99	105.63	End Shut-In(2)
138	1553.17	105.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	M	0.68

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
ATTN: Kurt Talbott

30-15s-17w Ellis,KS
Werth #A-1
Job Ticket: 58398 **DST#: 1**
Test Start: 2014.08.31 @ 18:45:51

Tool Information

Drill Pipe:	Length: 3136.00 ft	Diameter: 3.75 inches	Volume: 42.84 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3151.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	134.00 ft				
Tool Length:	154.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3132.00	
Shut In Tool	5.00			3137.00	
Hydraulic tool	5.00			3142.00	
Packer	5.00			3147.00	20.00 Bottom Of Top Packer
Packer	4.00			3151.00	
Stubb	1.00			3152.00	
Recorder	0.00	8651	Inside	3152.00	
Recorder	0.00	8655	Outside	3152.00	
Perforations	4.00			3156.00	
Change Over Sub	1.00			3157.00	
Drill Pipe	124.00			3281.00	
Change Over Sub	1.00			3282.00	
Bullnose	3.00			3285.00	134.00 Bottom Packers & Anchor

Total Tool Length: 154.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

30-15s-17w Ellis,KS
Werth #A-1
Job Ticket: 58398 **DST#: 1**
Test Start: 2014.08.31 @ 18:45:51

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	M	0.683

Total Length: 50.00 ft Total Volume: 0.683 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

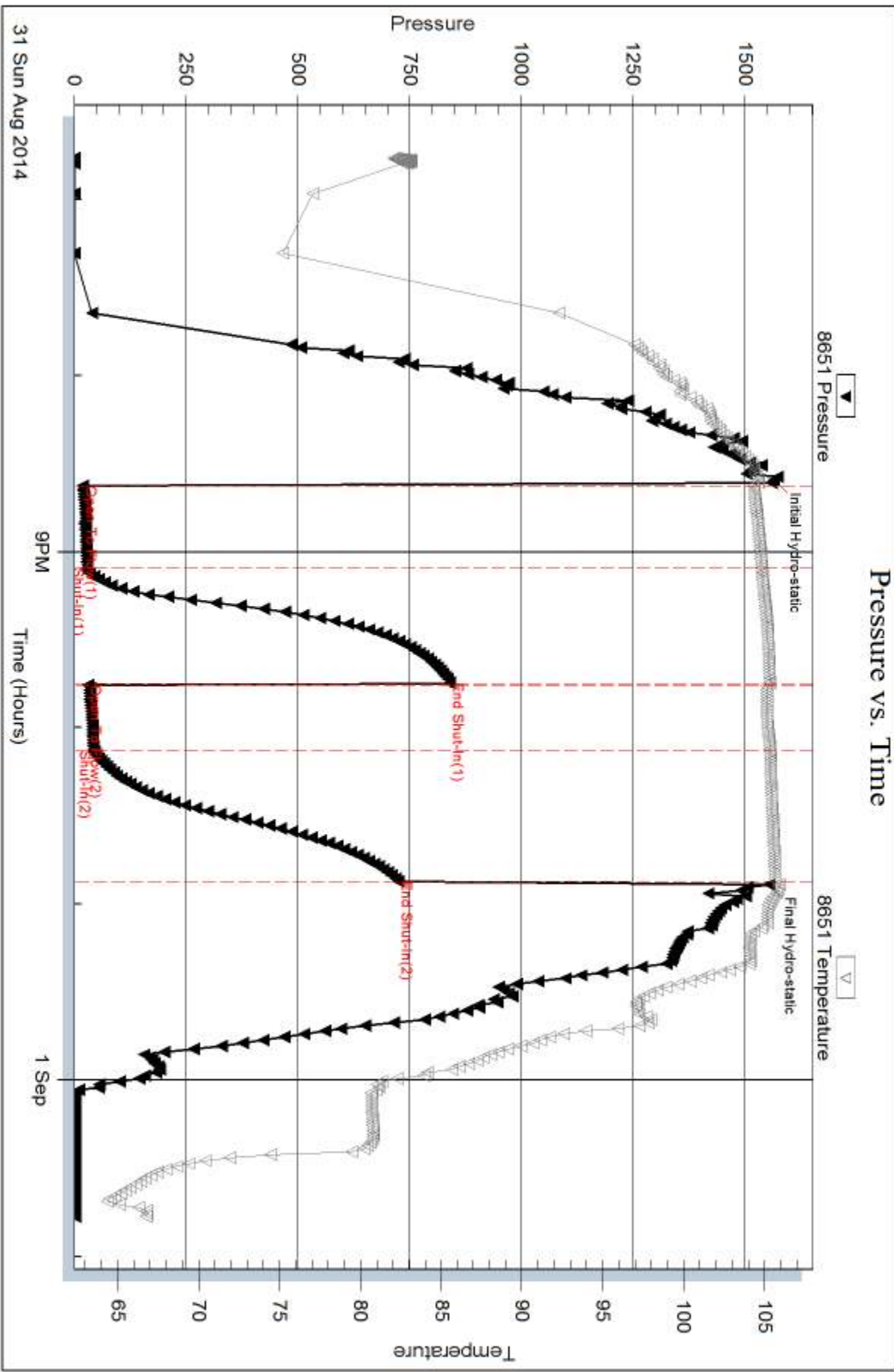
Serial #: 8651

Inside

Charter Energy, Inc.

Worth #A-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58398

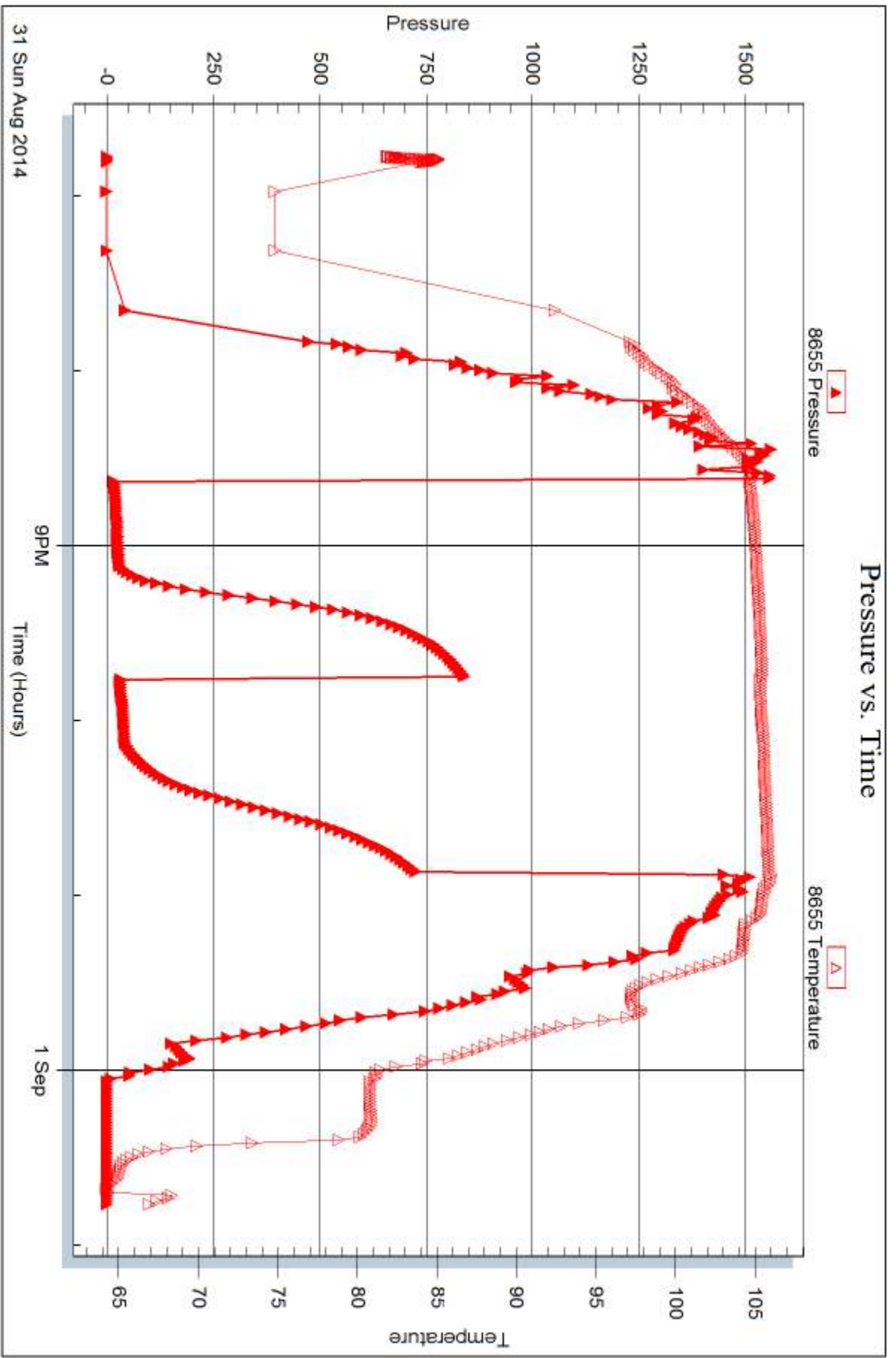
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Serial #: 8655

Outside Charter Energy, Inc.

Worth #A-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58398

Printed: 2014.09.04 @ 14:56:22



DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

Werth #A-1

30-15s-17w Ellis,KS

Start Date: 2014.09.01 @ 14:50:57

End Date: 2014.09.01 @ 18:55:27

Job Ticket #: 58399 DST #: 2

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

Printed: 2014.09.04 @ 14:55:52



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

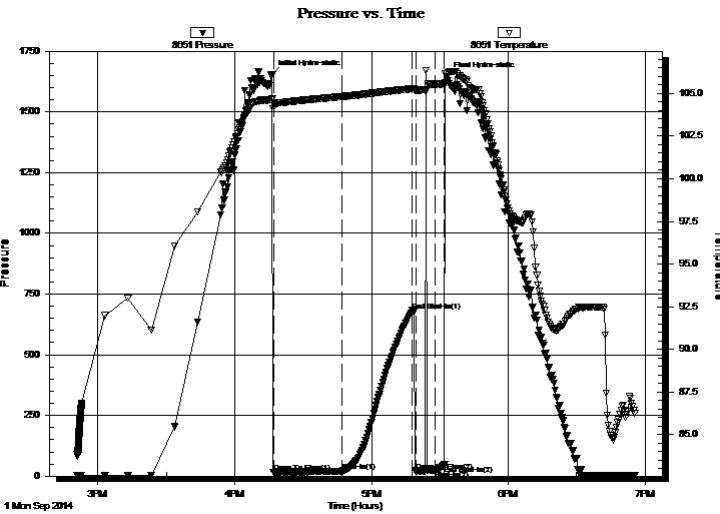
30-15s-17w Ellis,KS
Werth #A-1
 Job Ticket: 58399 **DST#: 2**
 Test Start: 2014.09.01 @ 14:50:57

GENERAL INFORMATION:

Formation: **Lower LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:16:57
 Time Test Ended: 18:55:27
 Interval: **3318.00 ft (KB) To 3400.00 ft (KB) (TVD)**
 Total Depth: 3400.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 62
 Reference Elevations: 1910.00 ft (KB)
 1903.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8651 Inside
 Press@RunDepth: 24.01 psig @ 3319.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.01 End Date: 2014.09.01 Last Calib.: 2014.09.01
 Start Time: 14:50:58 End Time: 18:55:27 Time On Btm: 2014.09.01 @ 16:16:27
 Time Off Btm: 2014.09.01 @ 17:32:57

TEST COMMENT: 30- IF- Weak surface blow
 30- IS- No blow
 10- FF- No blow flushed tool No blow
 05- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.42	104.65	Initial Hydro-static
1	15.91	104.11	Open To Flow (1)
31	19.49	104.81	Shut-In(1)
62	681.60	105.27	End Shut-In(1)
63	21.20	105.18	Open To Flow (2)
72	24.01	105.55	Shut-In(2)
76	46.50	105.56	End Shut-In(2)
77	1643.99	106.14	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

30-15s-17w Ellis,KS
Werth #A-1
Job Ticket: 58399 **DST#: 2**
Test Start: 2014.09.01 @ 14:50:57

Tool Information

Drill Pipe:	Length: 3327.00 ft	Diameter: 3.75 inches	Volume: 45.45 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3318.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	82.00 ft				
Tool Length:	102.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3299.00	
Shut In Tool	5.00			3304.00	
Hydraulic tool	5.00			3309.00	
Packer	5.00			3314.00	20.00 Bottom Of Top Packer
Packer	4.00			3318.00	
Stubb	1.00			3319.00	
Recorder	0.00	8651	Inside	3319.00	
Recorder	0.00	8655	Outside	3319.00	
Perforations	13.00			3332.00	
Change Over Sub	1.00			3333.00	
Drill Pipe	63.00			3396.00	
Change Over Sub	1.00			3397.00	
Bullnose	3.00			3400.00	82.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

30-15s-17w Ellis,KS
Werth #A-1
Job Ticket: 58399 **DST#: 2**
Test Start: 2014.09.01 @ 14:50:57

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M	0.205

Total Length: 15.00 ft Total Volume: 0.205 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8651

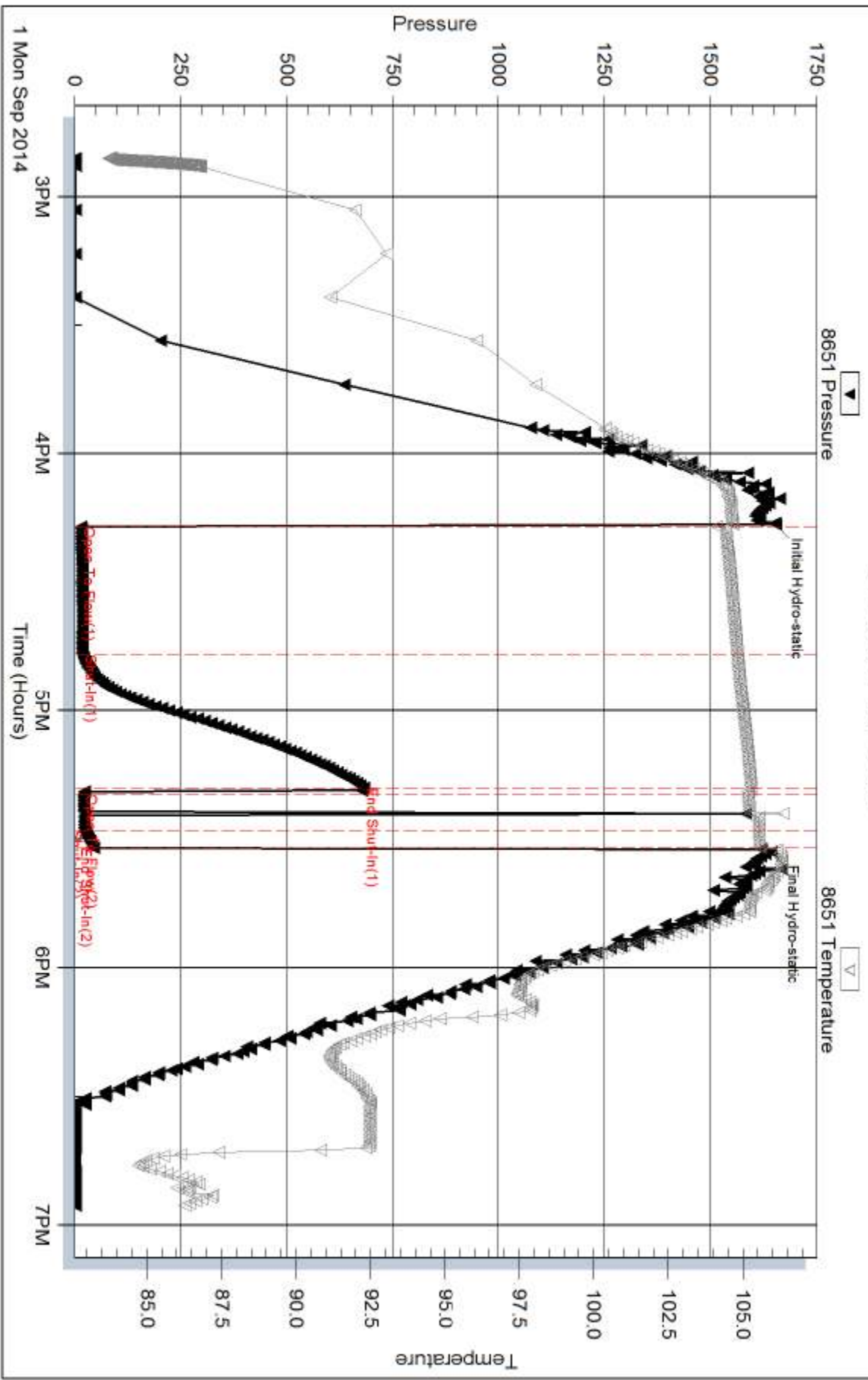
Inside

Charter Energy, Inc.

Worth #A-1

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 58399

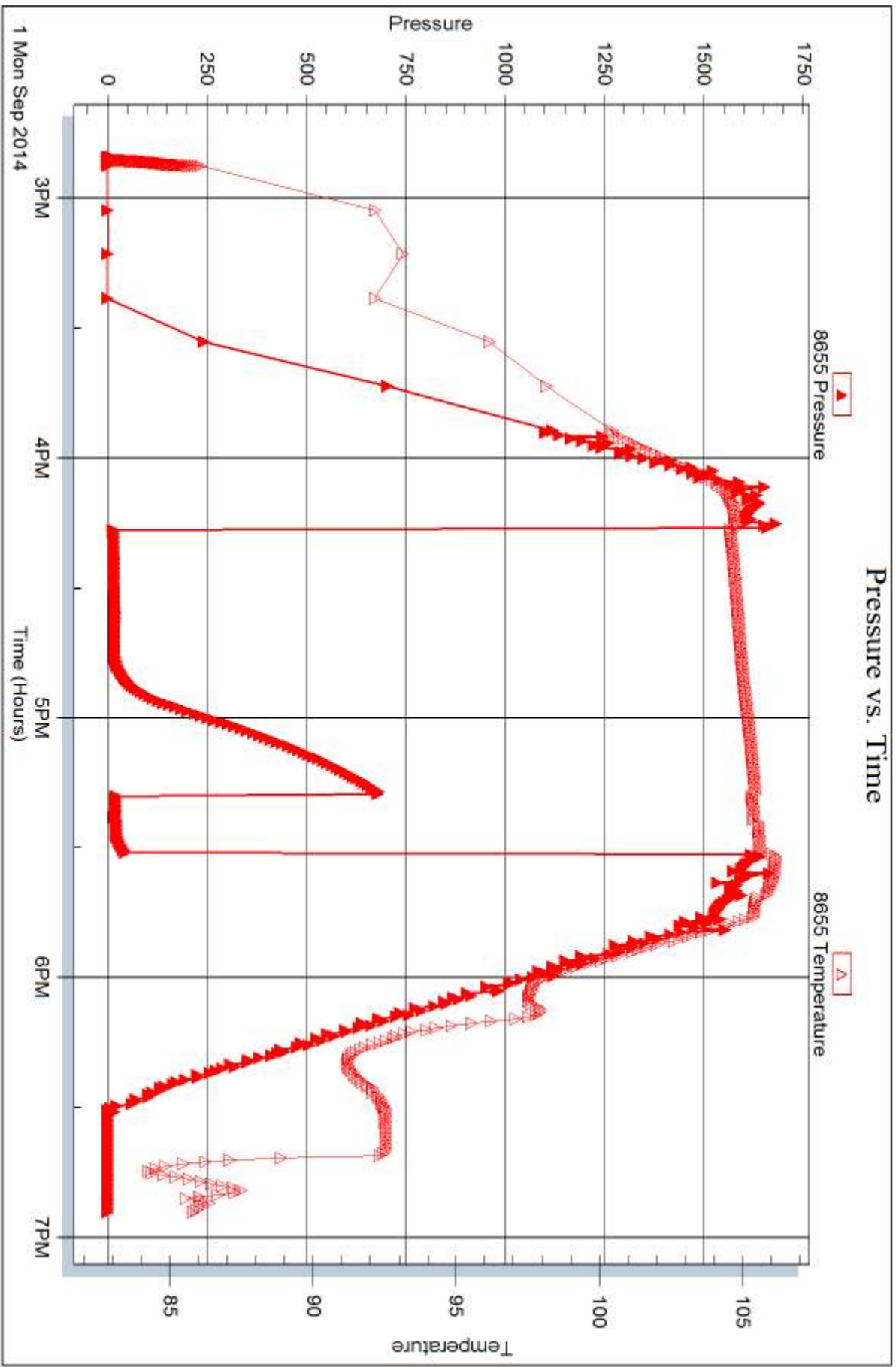
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Serial #: 8655

Outside Charter Energy, Inc.

Worth #A-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58399

Printed: 2014.09.04 @ 14:55:53



DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

Werth #A-1

30-15s-17w Ellis,KS

Start Date: 2014.09.02 @ 12:16:22

End Date: 2014.09.02 @ 17:13:22

Job Ticket #: 58400 DST #: 3

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

Printed: 2014.09.04 @ 14:54:43



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

30-15s-17w Ellis,KS
Werth #A-1
Job Ticket: 58400 **DST#: 3**
Test Start: 2014.09.02 @ 12:16:22

Tool Information

Drill Pipe:	Length: 3424.00 ft	Diameter: 3.75 inches	Volume: 46.77 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3430.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	74.00 ft				
Tool Length:	94.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3411.00	
Shut In Tool	5.00			3416.00	
Hydraulic tool	5.00			3421.00	
Packer	5.00			3426.00	20.00 Bottom Of Top Packer
Packer	4.00			3430.00	
Stubb	1.00			3431.00	
Recorder	0.00	8651	Inside	3431.00	
Recorder	0.00	8655	Outside	3431.00	
Perforations	5.00			3436.00	
Change Over Sub	1.00			3437.00	
Drill Pipe	63.00			3500.00	
Change Over Sub	1.00			3501.00	
Bullnose	3.00			3504.00	74.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

30-15s-17w Ellis,KS
Werth #A-1
Job Ticket: 58400 **DST#: 3**
Test Start: 2014.09.02 @ 12:16:22

Mud and Cushion Information

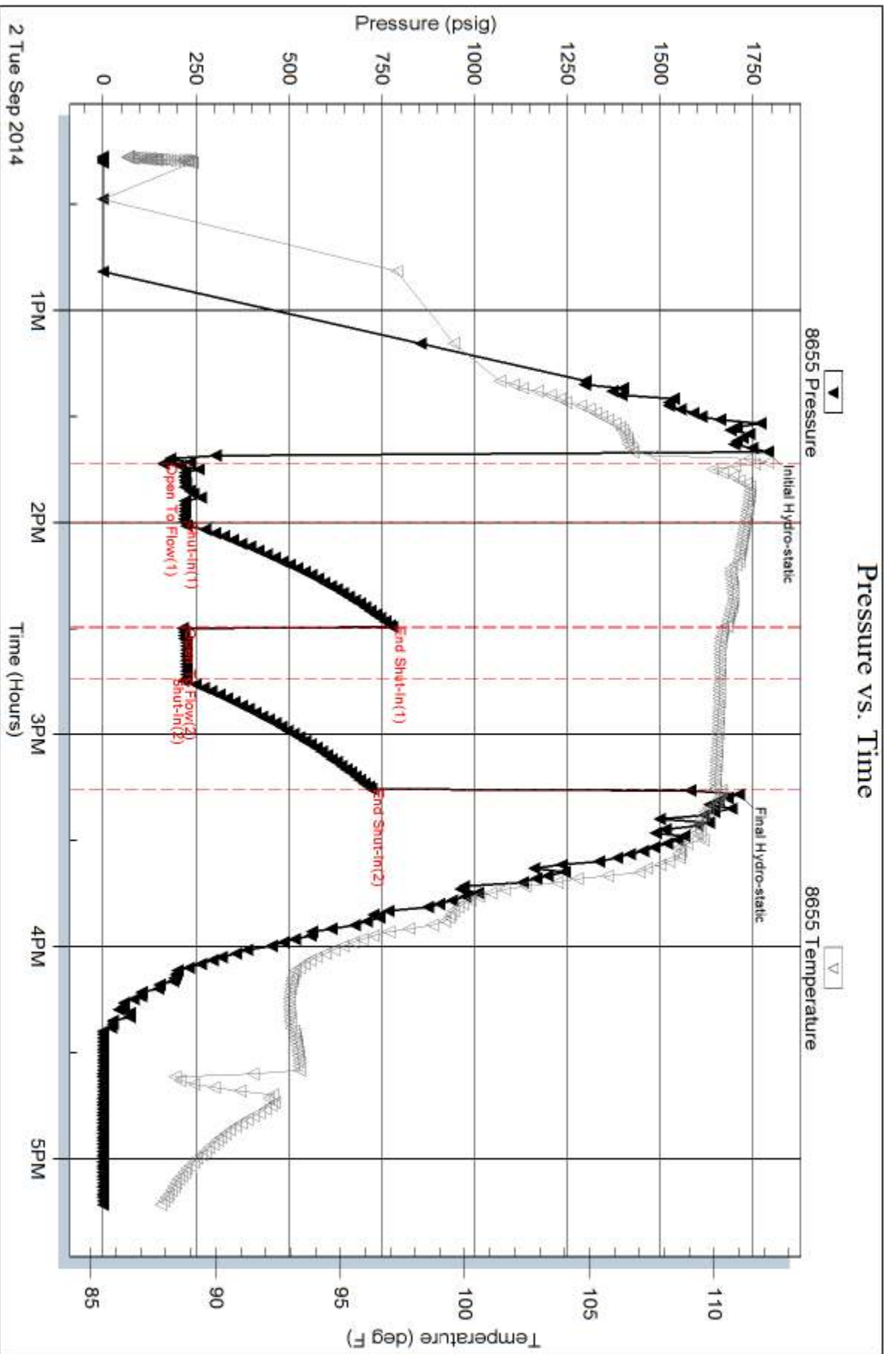
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	26000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
425.00	WM, 20%W 80%M	5.806

Total Length: 425.00 ft Total Volume: 5.806 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



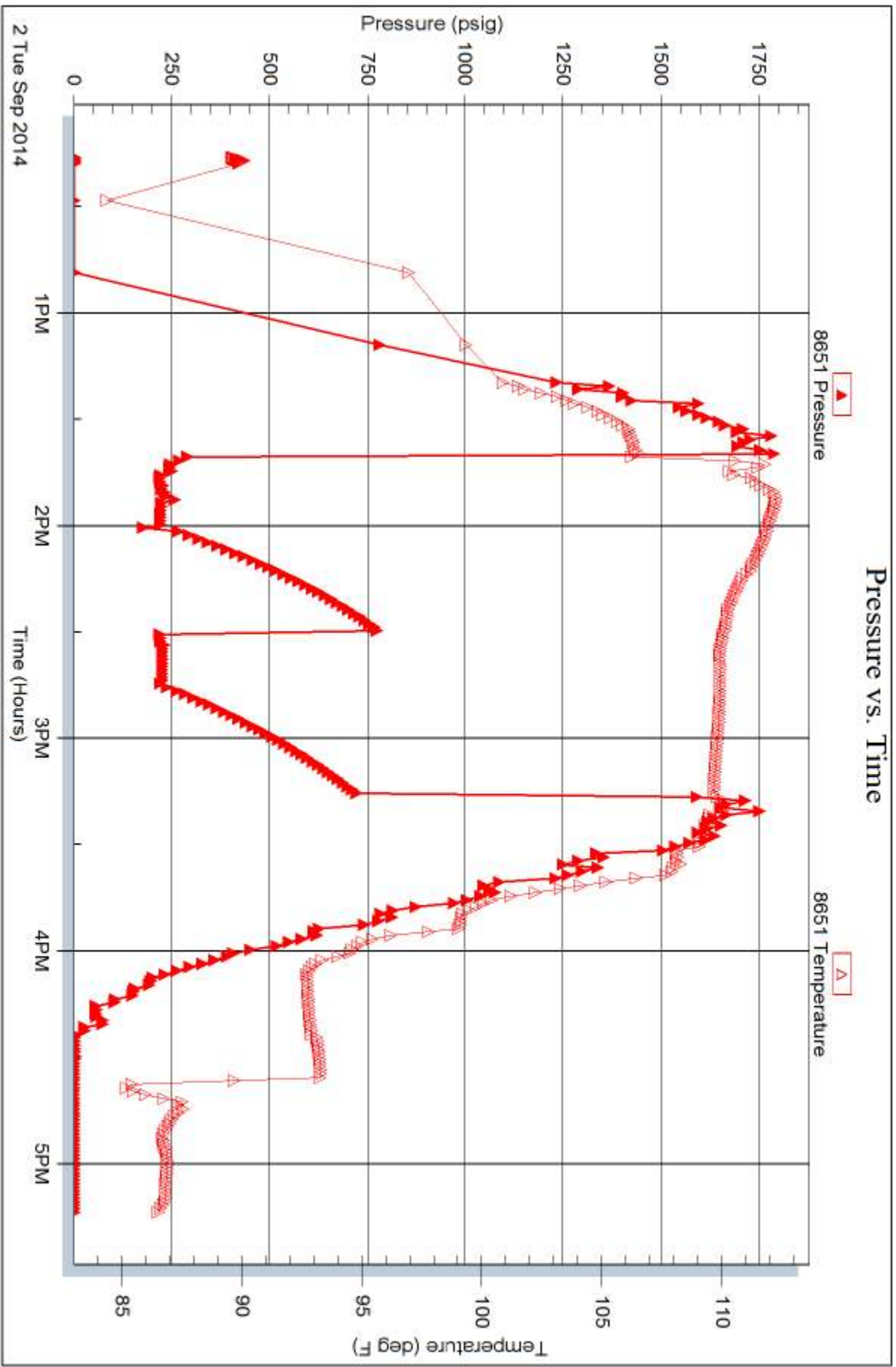
Serial #: 8651

Inside

Charter Energy, Inc.

Worth #A-1

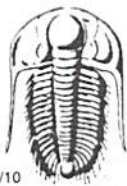
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58400

Printed: 2014.09.04 @ 14:54:45



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58398

Well Name & No. Worth #A-1 Test No. 1 Date 8/31/14
 Company Charter Energy, Inc. Elevation 1910 KB 1903 GL
 Address PO Box 252 / Great Bend, KS 67530
 Co. Rep / Geo. Kurt Talbot Rig Royal #1
 Location: Sec. 30 Twp. 18S Rge. 17W Co. Ellis State KS

Interval Tested 3151-8285 Zone Tested Toronto-LKC "F"
 Anchor Length 134' Drill Pipe Run 3136 Mud Wt. 8.9
 Top Packer Depth 3146 Drill Collars Run — Vis 52
 Bottom Packer Depth 3151 Wt. Pipe Run — WL 7.2
 Total Depth 3285 Chlorides 3200 ppm System LCM 1#

Blow Description IF - slowly built to 2"
FSI - No blow
FF - slowly built to 1"
FSI - No blow

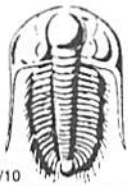
Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50' BHT 106° Gravity — API RW — @ — ° F Chlorides — ppm
 (A) Initial Hydrostatic 1564 Test 1150 T-On Location 1640
 (B) First Initial Flow 20 Jars — T-Started 1826
 (C) First Final Flow 28 Safety Joint — T-Open 2017
 (D) Initial Shut-In 841 Circ Sub — T-Pulled ~~2247~~ 2232
 (E) Second Initial Flow 31 Hourly Standby — T-Out 2027 9/1
 (F) Second Final Flow 43 Mileage 26 RT 40.30 Comments —
 (G) Final Shut-In 724 Sampler —
 (H) Final Hydrostatic 1533 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1190.30
 Accessibility — MP/DST Disc't —

Initial Open 30
 Initial Shut-In ~~30~~ 30
 Final Flow 30
 Final Shut-In 45
 Sub Total 1190.30

Approved By _____ Our Representative Brennan Lonsdale

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58399**

4/10

Well Name & No. Werth A#1 Test No. 2 Date 9/1/14
 Company Charter Energy, Inc. Elevation 1910 KB 1903 GL
 Address PO Box 252 Great Bend, KS 67530
 Co. Rep / Geo. Kurt Talbott Rig Royal #1
 Location: Sec. 30 Twp. 15.5 Rge. 17W Co. Ellis State KS

Interval Tested 3318-3400 Zone Tested Lower LKC
 Anchor Length 82' Drill Pipe Run 3327 Mud Wt. 9.2
 Top Packer Depth 3313 Drill Collars Run --- Vis 46
 Bottom Packer Depth 3318 Wt. Pipe Run --- WL 8.0
 Total Depth 3400 Chlorides 3800 ppm System LCM 1#

Blow Description IF - Weak surface blow
FSI - No blow
FF - No blow Flushed tool No blow
FST - No blow

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

Rec Total 15' BHT 106° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>1653</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1445</u>
(B) First Initial Flow <u>16</u>	<input type="checkbox"/> Jars <u>---</u>	T-Started <u>1451</u>
(C) First Final Flow <u>19</u>	<input type="checkbox"/> Safety Joint <u>---</u>	T-Open <u>1617</u>
(D) Initial Shut-In <u>682</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>1732</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>1856</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>26 RT</u> 40.30	Comments <u>---</u>
(G) Final Shut-In <u>47</u>	<input type="checkbox"/> Sampler <u>---</u>	
(H) Final Hydrostatic <u>1644</u>	<input type="checkbox"/> Straddle <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>

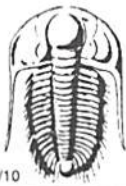
Initial Open 30
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In 5

Shale Packer ---
 Extra Packer ---
 Extra Recorder ---
 Day Standby ---
 Accessibility ---

Sub Total 1190.30

Total 1190.30
 MP/DST Disc't ---

Approved By --- Our Representative Brennan Lowdale



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58400

Well Name & No. Worth A#1 Test No. 3 Date 9/2/14
 Company Charter Energy, Inc. Elevation 1910 KB 1903 GL
 Address 252 PO Box Acreat Bend, KS 67530
 Co. Rep / Geo. Kurt Talbott Rig Royal #1
 Location: Sec. 30 Twp. 15 S Rge. 17 W Co. Ellis State KS

Interval Tested 3430-3504 Zone Tested Arbuckle
 Anchor Length 74' Drill Pipe Run 3424 Mud Wt. 9.3
 Top Packer Depth 3425 Drill Collars Run — Vis 60+
 Bottom Packer Depth 3430 Wt. Pipe Run — WL 6.8
 Total Depth 3504 Chlorides 3,700 ppm System LCM 2#

Blow Description IP - BOB 1 min
ISI - No blow
FF - Weak surface blow dried in 2 mins
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>425</u>	<u>WM</u>			<u>20</u>	<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 425' BHT 110° Gravity — API RW .21 @ 83 °F Chlorides 26,000 ppm
 Test 1150 T-On Location 1210
 Jars _____ T-Started 1216
 Safety Joint _____ T-Open 1340
 Circ Sub _____ T-Pulled 1515
 Hourly Standby _____ T-Out 1714
 Mileage 26 RT 40.30 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 20
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30
 Sub Total 0
 Total 1190.30
 MP/DST Disc't _____
 Sub Total 1190.30

Approved By _____ Our Representative Brannan Lonsdale

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