



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1190299
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: _____

1190299

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
-------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

Federal Tax I.D.# 20-2886107

No. 7795
12-12-13

Phone 785-483-2025

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

Cell 785-324-1041

Date	10-11-13	Sec.	28	Twp.	22	Range	14	County	Stafford	State	Ks	On Location	7:30 PM	Finish	2:30 AM
Location												Radium Rd + K-19, 45 to 100 ft Rd,			

Lease	Symms		Well No.	1	Owner	1/4 E, N1/4 T10									
Contractor	Royal 2		To Quality Oilwell Cementing, Inc.			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Type Job	Surface		Charge To			Charter Energy									
Hole Size	12 1/4"		T.D.	432'		Street									
Csg.	8 5/8"		Depth	432'		City									
Tbg. Size			Depth			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									
Meas Line			Displace	26 1/2 BLS		1/2" Flow-seal 425' sy Common 3% CLD 1/2 6e									

EQUIPMENT

Pumptrk	16	No.	Cementer	Billy	Common
			Helper		Poz. Mix
Bulktrk	12	No.	Driver	Heath	Gel.
			Driver		Calcium
Bulktrk	p.u.	No.	Driver	Rick	Hulls
			Driver		Salt

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate				
Rat Hole	Flowseal				
Mouse Hole	Koi-Seal				
Centralizers	Rig failed to make Mud CLR 48				
Baskets	a wiper trip. Pipe CFL-117 or CD110 CAF 38				
D/V or Port Collar	I would not get to Sand				
	Bottoms had to cut apart Handling				
	+ lay down casing Mileage				

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Quality Oilwell Cementing

Pumptrk Charge		Tax	
Mileage		Discount	
Signature	Tom Blake	Total Charge	



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

TICKET CONTINUATION

TICKET No. 85677

CUSTOMER *Cherokee Energy*

DATE 19oct13 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE	UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM			
285		1				175 gk			19oct13	14.00	2450.00
284		1				800 lb				35.00	28000.00
283		1				900 lb				0.80	180.00
286		1				100 lb				8.00	800.00
276		1				50 lb				2.00	100.00
281		1				500 gal				1.25	625.00
281		1				2 gal				25.00	50.00
581										2.00	350.00
583										1.00	640.50

CONTINUATION TOTAL 6475.50

SERVICE CHARGE
MILEAGE CHARGE TOTAL WEIGHT 18300
LOADED MILES 175
CUBIC FEET 640.5

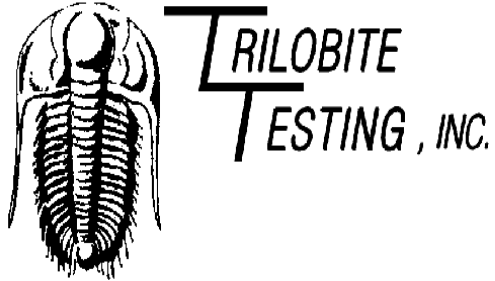
JOB LOG

SWIFT Services, Inc.

DATE 19 OCT 13 PAGE NO. 1

CUSTOMER *Charlee Energy* WELL NO. LEASE JOB TYPE *commit long string* TICKET NO. *25677*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2w) 4" floccle TD = 4060' Bucket #6 155# casing Catalizer 1,3,5,7,9,11,13,15 Phrejt - 21.06' pipe = 4051'
	1000 1115							on loc. 114 start 5 1/2" 155# casing in well Drop ball - circulate
	1255	4 2/3 4 2/3	12 20			200 200		Pump 500 gal mud flush Pump 20 bbl KCl flush
	1307		7					Plug RH - MH 30 sks - 20 sks
	1315	4 2/3	35			200		mix EA-2 commit 125 sks e 15.3 ppq wash out pump & line Drop latch down plug
	1330	6 6	90			200 800		Displace plug
	1345	6	99			1600		Land plug Release pressure to truck - dried up
	1355							wash truck Rack up
	1430							job complete Parker Blaine, Flint, & Craig



DRILL STEM TEST REPORT

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

P.O. Box 252
Great Bend, KS 67530-0252

ATTN: Jim Musgrove

Symns #1

28-22s-14w Stafford,KS

Start Date: 2013.10.16 @ 03:57:42

End Date: 2013.10.16 @ 09:36:27

Job Ticket #: 52462 DST #: 1

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

Printed: 2013.10.18 @ 15:49:11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc.
 P.O. Box 252
 Great Bend, KS 67530-0252
 ATTN: Jim Musgrove

28-22s-14w Stafford, KS
Symns #1
 Job Ticket: 52462 **DST#: 1**
 Test Start: 2013.10.16 @ 03:57:42

GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:46:42
 Time Test Ended: 09:36:27
 Interval: **3640.00 ft (KB) To 3660.00 ft (KB) (TVD)**
 Total Depth: 3660.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 1957.00 ft (KB)
 1950.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8790

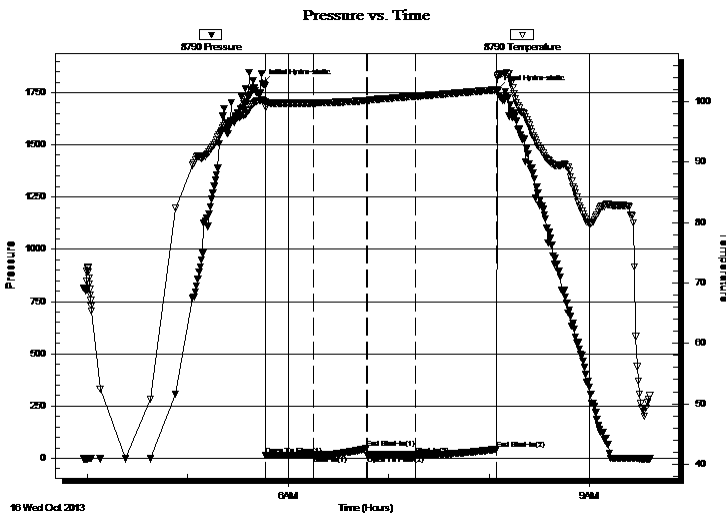
Inside

Press @ Run Depth: 17.15 psig @ 3641.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.16 End Date: 2013.10.16 Last Calib.: 2013.10.16
 Start Time: 03:57:47 End Time: 09:36:26 Time On Btm: 2013.10.16 @ 05:44:42
 Time Off Btm: 2013.10.16 @ 08:04:57

TEST COMMENT: IF: Weak blow . 1/4" - 1/2"
 IS: No blow
 FF: No blow
 FS: No blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.59	100.22	Initial Hydro-static
2	12.89	99.08	Open To Flow (1)
31	16.55	99.78	Shut-In(1)
62	46.79	100.16	End Shut-In(1)
63	15.19	100.15	Open To Flow (2)
92	17.15	100.87	Shut-In(2)
140	43.33	101.96	End Shut-In(2)
141	1764.56	103.97	Final Hydro-static

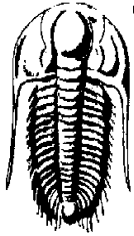


Recovery

Length (ft)	Description	Volume (bbl)
5.00	O Sptd M 2%oil, 98%mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

28-22s-14w Stafford,KS

P.O. Box 252
Great Bend, KS 67530-0252

Symns #1

Job Ticket: 52462

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.10.16 @ 03:57:42

Tool Information

Drill Pipe:	Length: 3630.00 ft	Diameter: 3.80 inches	Volume: 50.92 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 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: 57000.00 lb
			<u>Total Volume: 50.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3640.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 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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Shut In Tool	5.00			3625.00	
Hydraulic tool	5.00			3630.00	
Packer	5.00			3635.00	20.00 Bottom Of Top Packer
Packer	5.00			3640.00	
Stubb	1.00			3641.00	
Recorder	0.00	8790	Inside	3641.00	
Recorder	0.00	8792	Outside	3641.00	
Perforations	16.00			3657.00	
Bullnose	3.00			3660.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
P.O. Box 252
Great Bend, KS 67530-0252
ATTN: Jim Musgrove

28-22s-14w Stafford,KS
Symns #1
Job Ticket: 52462 **DST#: 1**
Test Start: 2013.10.16 @ 03:57:42

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6800.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	O Sptd M 2%oil, 98%mud	0.070

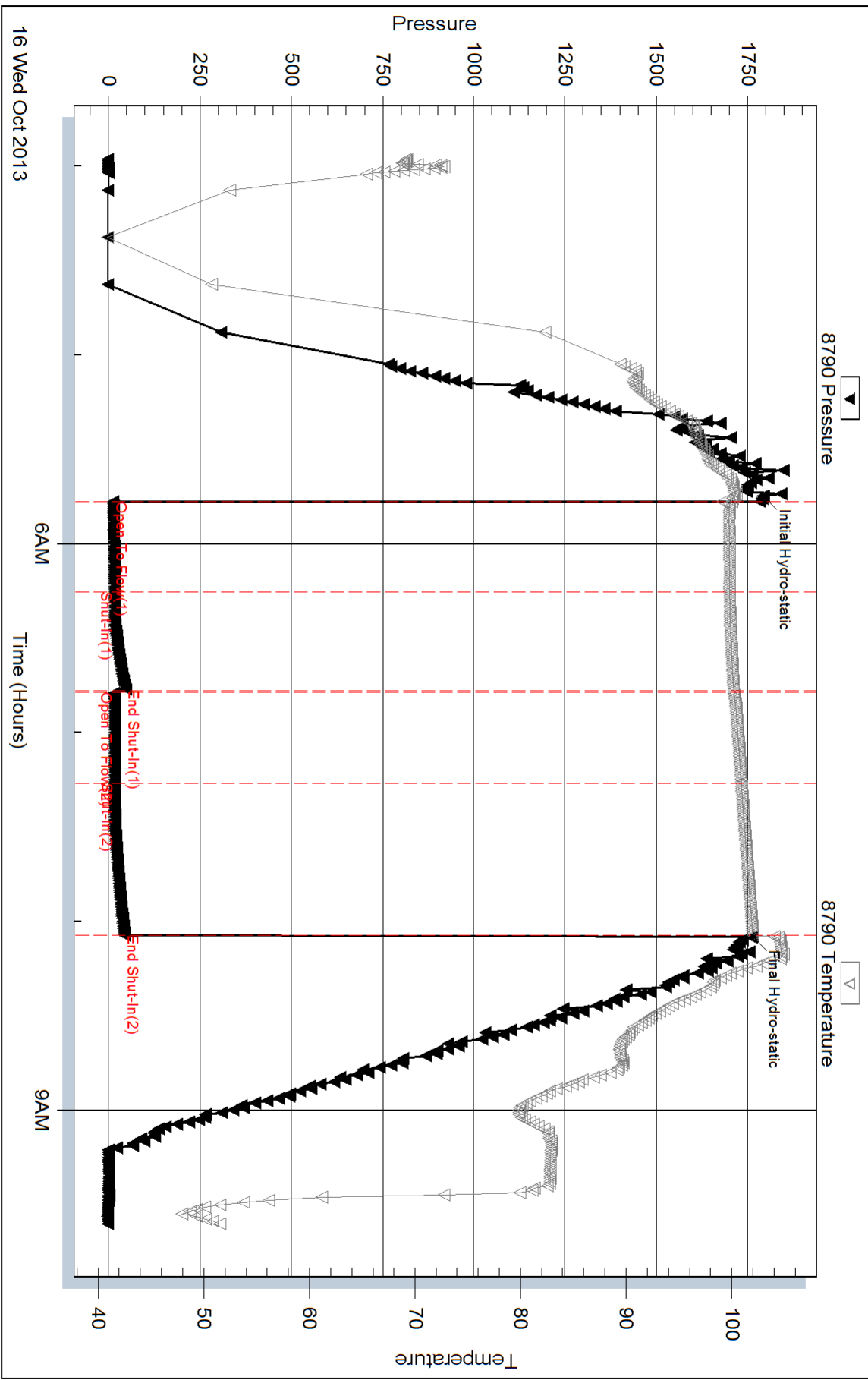
Total Length: 5.00 ft Total Volume: 0.070 bbl

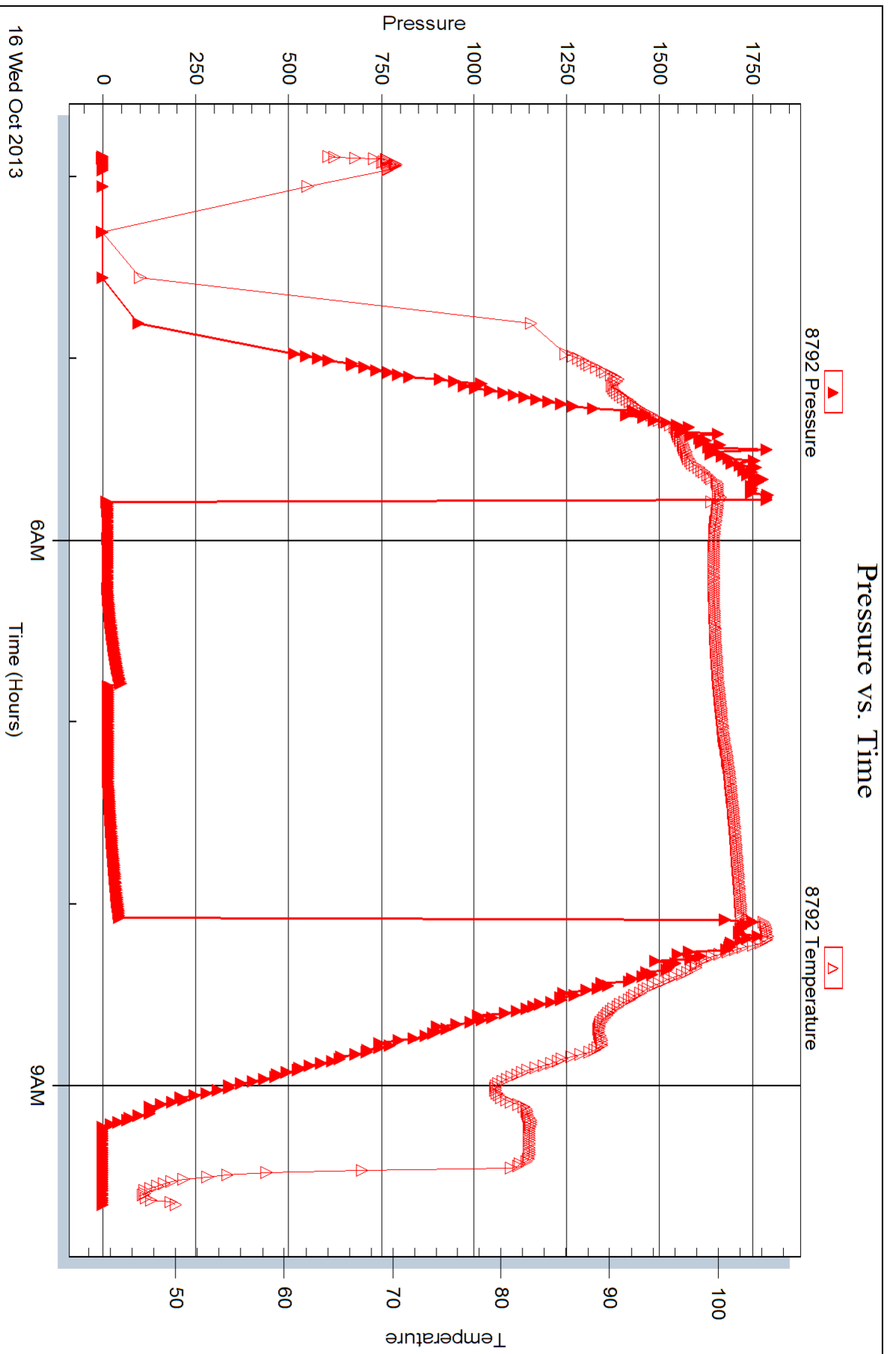
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

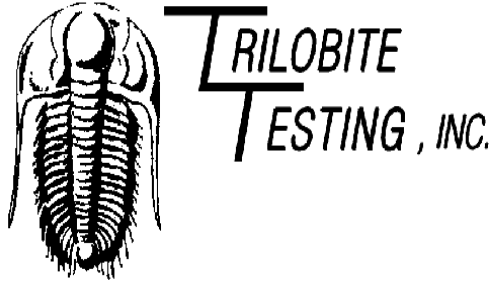
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

P.O. Box 252
Great Bend, KS 67530-0252

ATTN: Jim Musgrove

Symns #1

28-22s-14w Stafford,KS

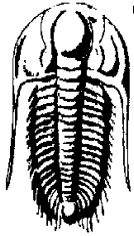
Start Date: 2013.10.16 @ 16:25:45

End Date: 2013.10.16 @ 21:37:45

Job Ticket #: 52463 DST #: 2

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

Printed: 2013.10.18 @ 15:47:36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.
P.O. Box 252
Great Bend, KS 67530-0252
ATTN: Jim Musgrove

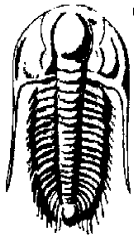
28-22s-14w Stafford,KS
Symns #1
Job Ticket: 52463 **DST#: 2**
Test Start: 2013.10.16 @ 16:25:45

Tool Information

Drill Pipe:	Length: 3658.00 ft	Diameter: 3.80 inches	Volume: 51.31 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 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: 63000.00 lb
			<u>Total Volume: 51.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3661.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3646.00	
Hydraulic tool	5.00			3651.00	
Packer	5.00			3656.00	20.00 Bottom Of Top Packer
Packer	5.00			3661.00	
Stubb	1.00			3662.00	
Recorder	0.00	8790	Inside	3662.00	
Recorder	0.00	8792	Outside	3662.00	
Perforations	35.00			3697.00	
Bullnose	3.00			3700.00	39.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
P.O. Box 252
Great Bend, KS 67530-0252
ATTN: Jim Musgrove

28-22s-14w Stafford,KS
Symns #1
Job Ticket: 52463 **DST#: 2**
Test Start: 2013.10.16 @ 16:25:45

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:	10400 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 10400.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

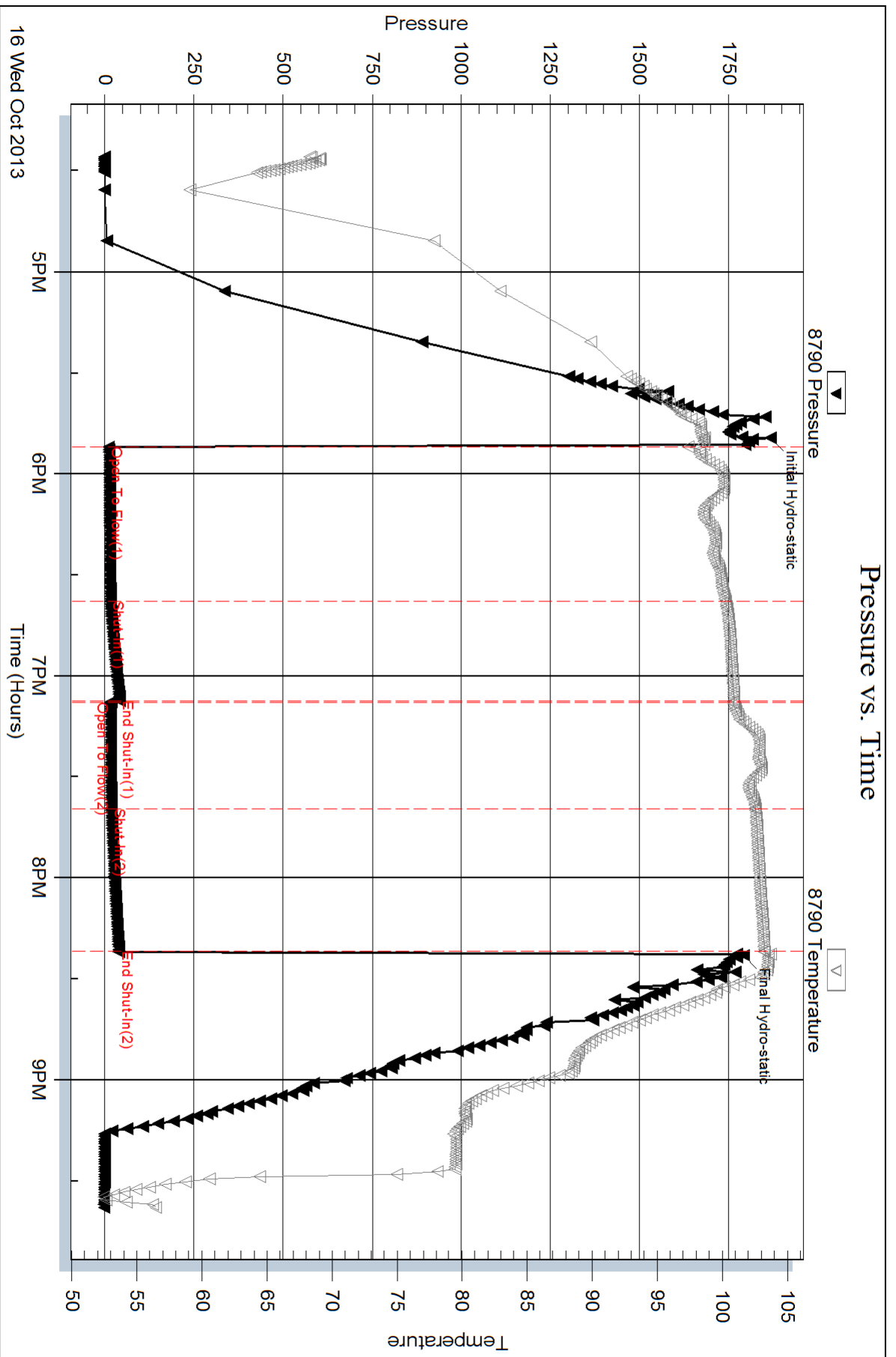
Length ft	Description	Volume bbl
10.00	O spkd M trc%oil, 99%mud	0.140

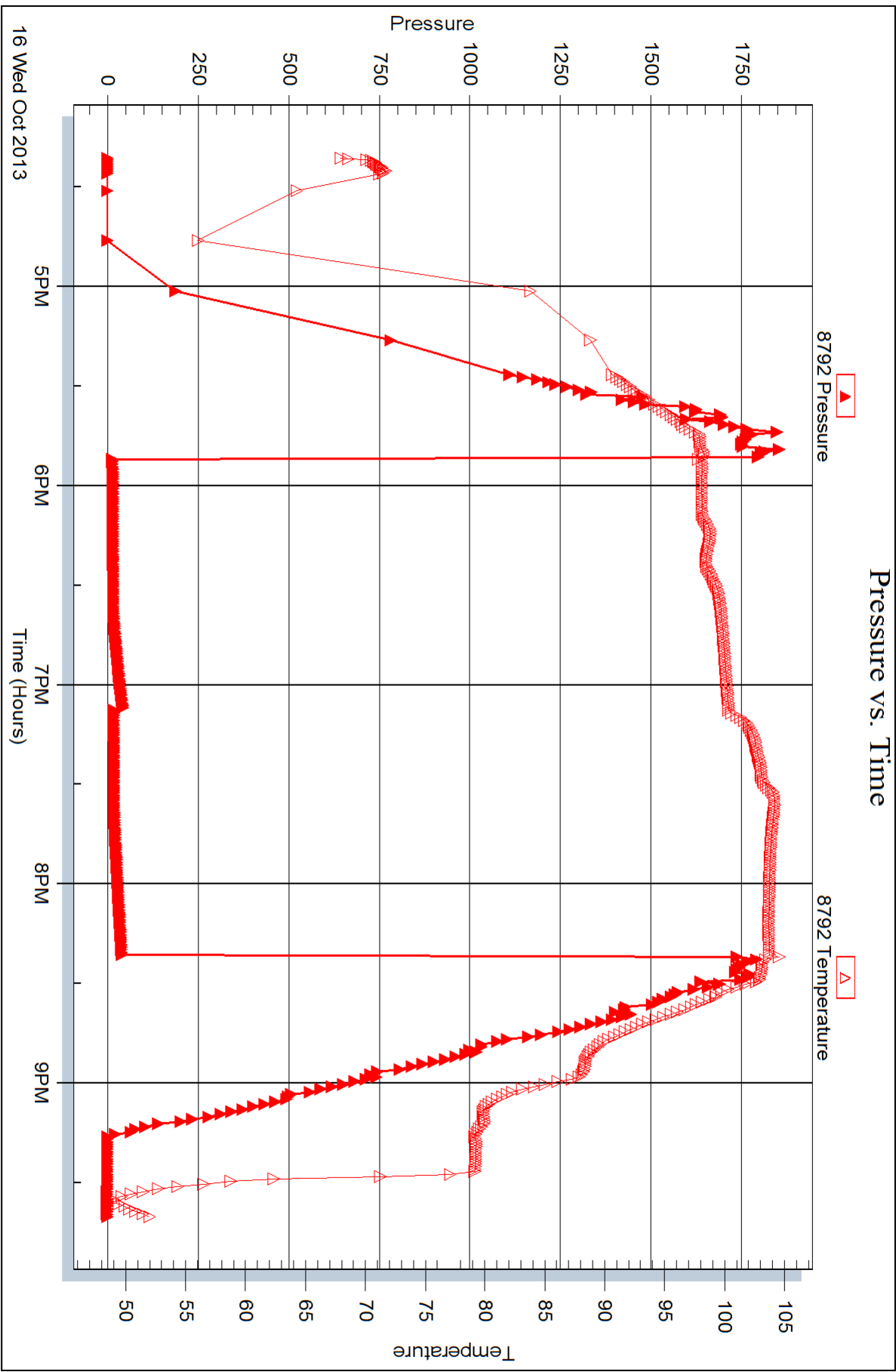
Total Length: 10.00 ft Total Volume: 0.140 bbl

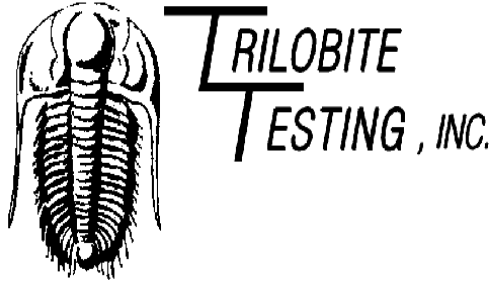
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

P.O. Box 252
Great Bend, KS 67530-0252

ATTN: Jim Musgrove

Symns #1

28-22s-14w Stafford,KS

Start Date: 2013.10.17 @ 15:13:51

End Date: 2013.10.17 @ 19:23:36

Job Ticket #: 52464 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.18 @ 15:47:11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.
P.O. Box 252
Great Bend, KS 67530-0252
ATTN: Jim Musgrove

28-22s-14w Stafford,KS
Symns #1
Job Ticket: 52464 **DST#: 3**
Test Start: 2013.10.17 @ 15:13:51

Tool Information

Drill Pipe:	Length: 3723.00 ft	Diameter: 3.80 inches	Volume: 52.22 bbl	Tool Weight: 2000.00 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3734.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	146.00 ft			
Tool Length:	166.00 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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Shut In Tool	5.00			3719.00	
Hydraulic tool	5.00			3724.00	
Packer	5.00			3729.00	20.00 Bottom Of Top Packer
Packer	5.00			3734.00	
Stubb	1.00			3735.00	
Recorder	0.00	8790	Inside	3735.00	
Recorder	0.00	8792	Outside	3735.00	
Perforations	5.00			3740.00	
Blank Spacing	127.00			3867.00	
Perforations	10.00			3877.00	
Bullnose	3.00			3880.00	146.00 Bottom Packers & Anchor

Total Tool Length: 166.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
P.O. Box 252
Great Bend, KS 67530-0252
ATTN: Jim Musgrove

28-22s-14w Stafford,KS
Symns #1
Job Ticket: 52464 **DST#: 3**
Test Start: 2013.10.17 @ 15:13:51

Mud and Cushion Information

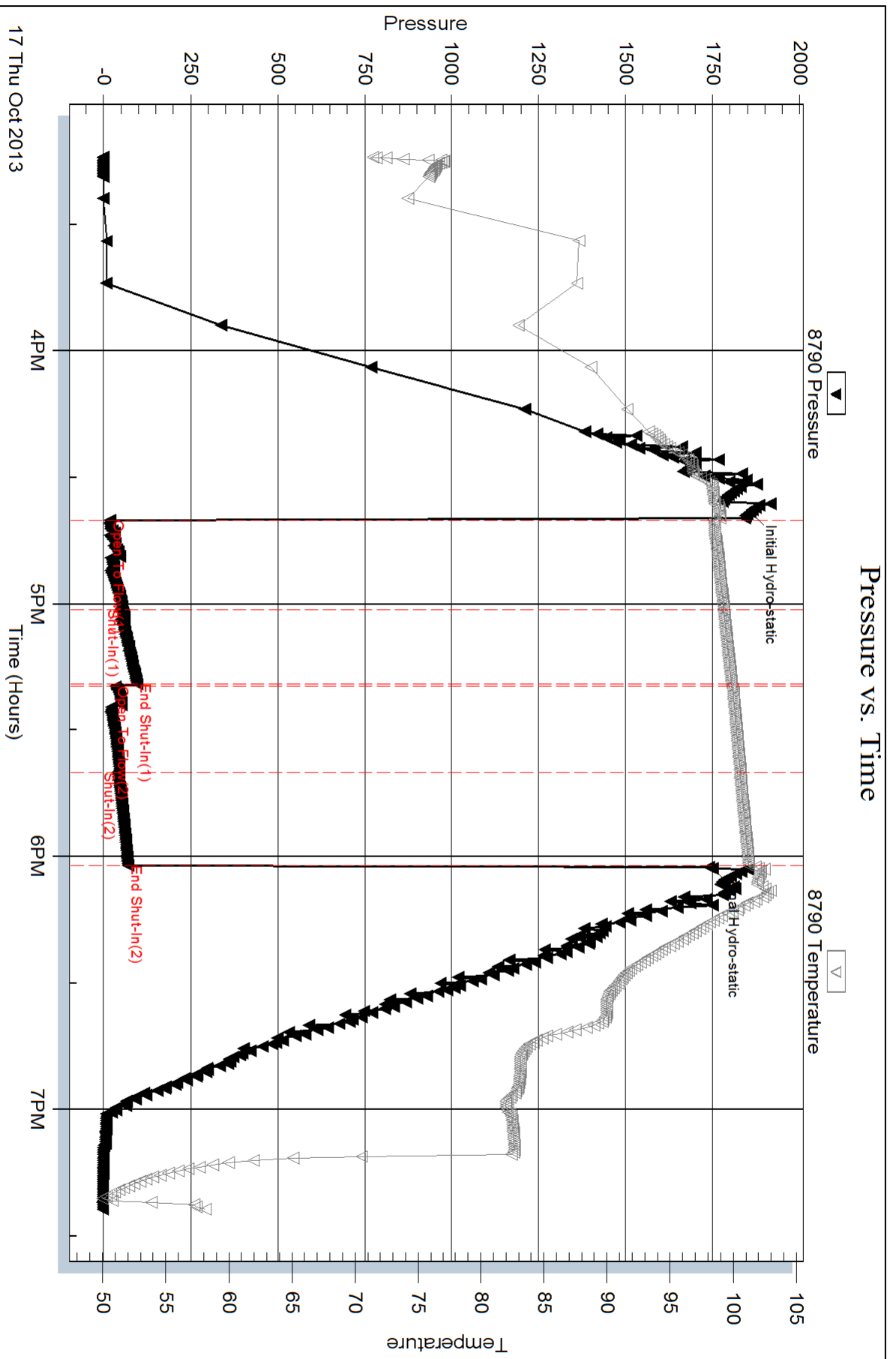
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	13400 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.88 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 13400.00 ppm			
Filter Cake: 0.02 inches			

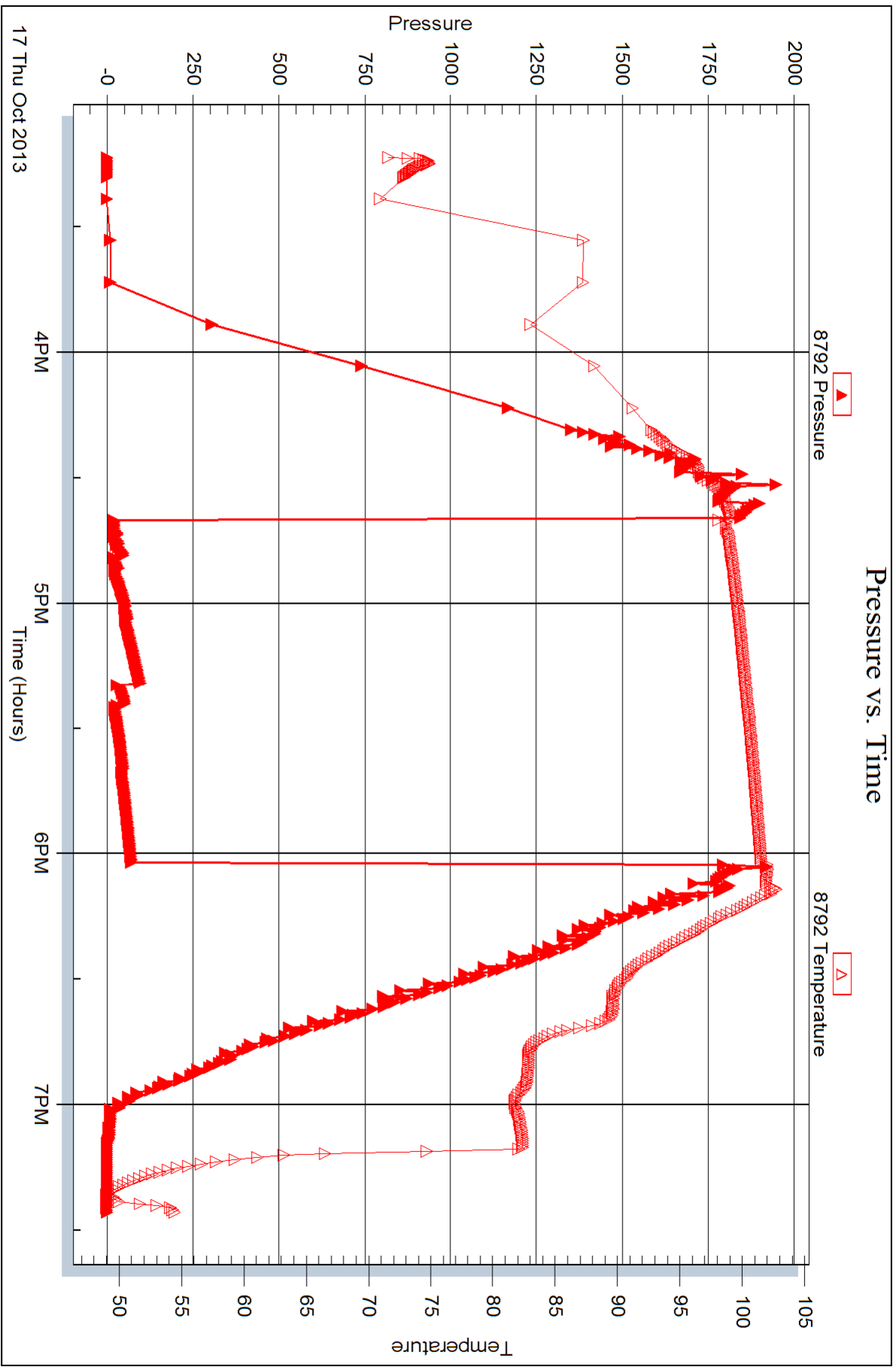
Recovery Information

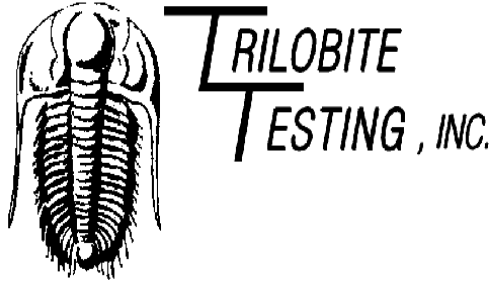
Recovery Table

Length ft	Description	Volume bbl
5.00	drlg mud	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:







DRILL STEM TEST REPORT

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

P.O. Box 252
Great Bend, KS 67530-0252

ATTN: Jim Musgrove

Symns #1

28-22s-14w Stafford,KS

Start Date: 2013.10.18 @ 07:30:03

End Date: 2013.10.18 @ 14:07:03

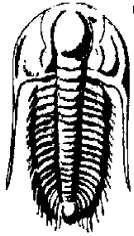
Job Ticket #: 52465 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.18 @ 15:46:40



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.
P.O. Box 252
Great Bend, KS 67530-0252
ATTN: Jim Musgrove

28-22s-14w Stafford,KS
Symns #1
Job Ticket: 52465 **DST#: 4**
Test Start: 2013.10.18 @ 07:30:03

Tool Information

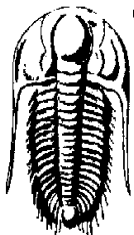
Drill Pipe:	Length: 3910.00 ft	Diameter: 3.80 inches	Volume: 54.85 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 103000.0 lb
			<u>Total Volume: 54.85 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3900.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3885.00	
Hydraulic tool	5.00			3890.00	
Packer	5.00			3895.00	20.00 Bottom Of Top Packer
Packer	5.00			3900.00	
Stubb	1.00			3901.00	
Recorder	0.00	8790	Inside	3901.00	
Recorder	0.00	8792	Outside	3901.00	
Perforations	1.00			3902.00	
Blank Spacing	65.00			3967.00	
Perforations	5.00			3972.00	
Bullnose	3.00			3975.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

28-22s-14w Stafford,KS

P.O. Box 252
Great Bend, KS 67530-0252

Symns #1

Job Ticket: 52465

DST#: 4

ATTN: Jim Musgrove

Test Start: 2013.10.18 @ 07:30:03

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 61.00 sec/qt
Water Loss: 12.88 in³
Resistivity: ohm.m
Salinity: 13400.00 ppm
Filter Cake: 0.02 inches

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

Oil API: deg API
Water Salinity: 13400 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
195.00	GMCO 10%gas, 40%mud, 50%oil	2.735
380.00	CGO 25%gas, 75%oil	5.330
250.00	OCM 15%oil, 85%mud	3.507
0.00	120' GIP	0.000

Total Length: 825.00 ft Total Volume: 11.572 bbl

Num Fluid Samples: 0

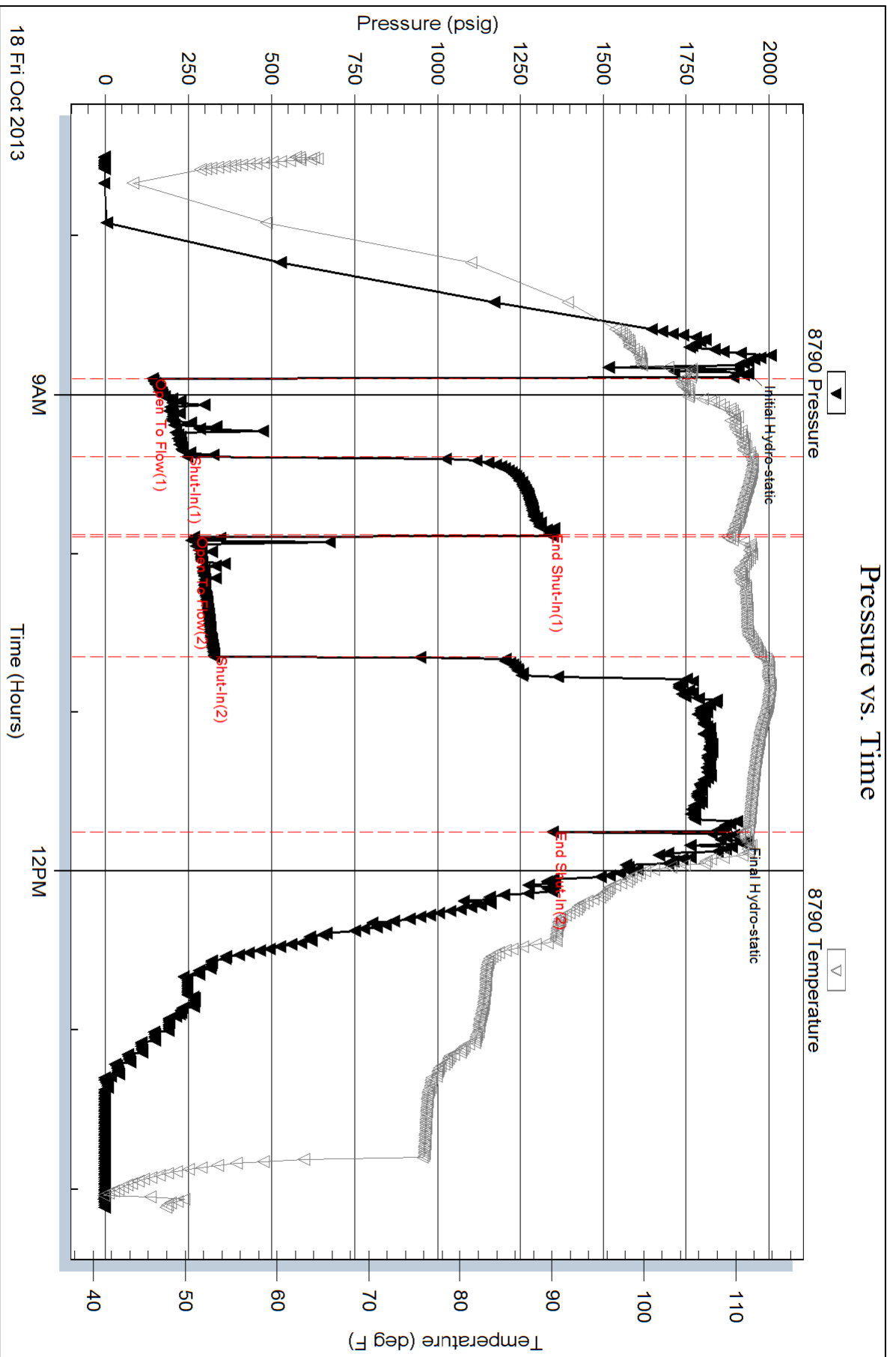
Num Gas Bombs: 0

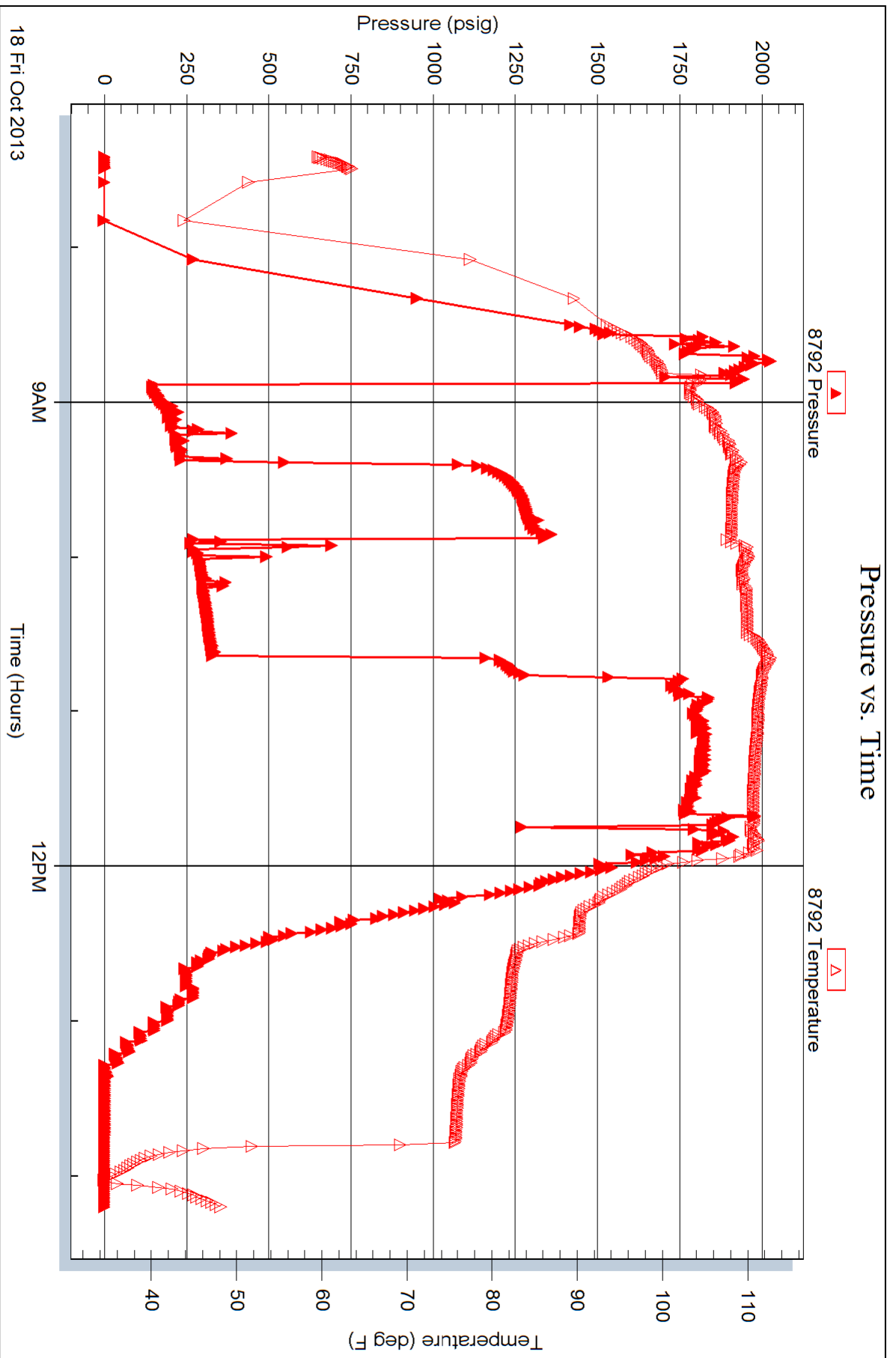
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52462

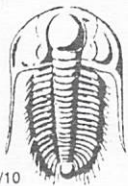
Well Name & No. Symms # 1 Test No. 1 Date 10-16-13
 Company Charter Energy, Inc. Elevation 1957 KB 1950 GL
 Address P.O. Box 252 Great Bend, KS 67530-0252
 Co. Rep / Geo. Jim Musgrove Rig Royal # 2
 Location: Sec. 28 Twp. 22s. Rge. 14w. Co. Stafford State KS

Interval Tested 3640-3660 Zone Tested _____
 Anchor Length 20' Drill Pipe Run 3630 Mud Wt. 8.8
 Top Packer Depth 3635 Drill Collars Run Ø Vis 49
 Bottom Packer Depth 3640 Wt. Pipe Run Ø WL 8.8
 Total Depth 3660 Chlorides 6800 ppm System LCM 1#
 Blow Description IF: Weak blow. 1/4" - 1/2" ISI: No blow.
FF: No blow. FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>0 Sptd/M</u>		<u>2</u>	<u>98</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 104 Gravity N/C API RW N/C @ N/C °F Chlorides 6800 ppm
 (A) Initial Hydrostatic 1793 Test 1150 T-On Location 0300
 (B) First Initial Flow 13 Jars _____ T-Started 0358
 (C) First Final Flow 17 Safety Joint _____ T-Open 0547
 (D) Initial Shut-In 47 Circ Sub _____ T-Pulled 0803
 (E) Second Initial Flow 15 Hourly Standby _____ T-Out 0936
 (F) Second Final Flow 17 Mileage 80 124 Comments _____
 (G) Final Shut-In 43 Sampler _____
 (H) Final Hydrostatic 1765 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1274
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1274

Approved By _____ Our Representative Ryan Reynolds
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52463

Well Name & No. Symms #1 Test No. 2 Date 10-16-13
 Company Charter Energy, Inc. Elevation 1957 KB 1950 GL
 Address P.O. Box 252 Great Bend, KS 67530-0252
 Co. Rep / Geo. Jim Musgrove Rig Royal #2
 Location: Sec. 28 Twp. 22s. Rge. 14w. Co. Stafford State KS

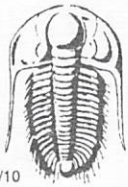
Interval Tested 3661-3700 Zone Tested _____
 Anchor Length 39' Drill Pipe Run 3658 Mud Wt. 9.2
 Top Packer Depth 3656 Drill Collars Run Ø Vis 55
 Bottom Packer Depth 3661 Wt. Pipe Run Ø WL 8.8
 Total Depth 3700 Chlorides 10,400 ppm System LCM 1#
 Blow Description IF: Weak blow, 1/4" - 1" IST: No blow
FF: Weak - Dead @ 16 min. FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>0 spkd M</u>	<u>Trc</u>		<u>99</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 104 Gravity N/C API RW N/C @ N/C °F Chlorides 10400 ppm

(A) Initial Hydrostatic <u>1867</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1615</u>
(B) First Initial Flow <u>11</u>	<input type="checkbox"/> Jars _____	T-Started <u>1626</u>
(C) First Final Flow <u>16</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>1752</u>
(D) Initial Shut-In <u>42</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2022</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2138</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>80</u> 124	Comments _____
(G) Final Shut-In <u>39</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1791</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1274</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1274</u>	

Approved By _____ Our Representative Ryan Reynolds
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52464

Well Name & No. Symas #1 Test No. 3 Date 10-17-13
 Company Charter Energy, Inc. Elevation 1957 KB 1950 GL
 Address P.O. Box 252 Great Bend, KS 67530-0252
 Co. Rep / Geo. Jim Musgrove Rig Royal #2
 Location: Sec. 28 Twp. 22s. Rge. 14w Co. Stafford State KS

Interval Tested 3734-3880 Zone Tested _____
 Anchor Length 146 Drill Pipe Run 3723 Mud Wt. 9.3
 Top Packer Depth 3729 Drill Collars Run Ø Vis 61
 Bottom Packer Depth 3734 Wt. Pipe Run Ø WL 12.9
 Total Depth 3880 Chlorides 13400 ppm System LCM 1#
 Blow Description IF: Weak blow. 1/4" - 1/2" IFI: No blow
FF: Weak blow. Dead @ 3 min. FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Feet of Dry 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 102 Gravity n/c API RW n/c @ n/c °F Chlorides 13400 ppm
 (A) Initial Hydrostatic 1857 Test 1150 T-On Location 1530
 (B) First Initial Flow 19 Jars _____ T-Started 1514
 (C) First Final Flow 51 Safety Joint _____ T-Open 11640
 (D) Initial Shut-In 96 Circ Sub _____ T-Pulled 1840
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 1924
 (F) Second Final Flow 40 Mileage 80 124 Comments _____
 (G) Final Shut-In 70 Sampler _____
 (H) Final Hydrostatic 1750 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Initial Open 20 Extra Packer _____
 Extra Copies _____
 Initial Shut-In 20 Extra Recorder _____
 Sub Total 0
 Final Flow 20 Day Standby _____
 Total 1274
 Final Shut-In 20 Accessibility _____
 MP/DST Disc't _____
 Sub Total 1274

Approved By _____ Our Representative Ryan Reynolds
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52465

Well Name & No. Symas #1 Test No. 4 Date 10-18-13
 Company Charter Energy, Inc. Elevation 1957 KB 1950 GL
 Address P.O. Box 252 Great Bend, KS 67530-0252
 Co. Rep / Geo. Jim Musgrove Rig Royal #2
 Location: Sec. 28 Twp. 22s. Rge. 14w. Co. Stafford State KS

Interval Tested 3900 - 3975 Zone Tested Simpson
 Anchor Length 75 Drill Pipe Run 3910 Mud Wt. 9.3
 Top Packer Depth 3895 Drill Collars Run Ø Vis 61
 Bottom Packer Depth 3900 Wt. Pipe Run Ø WL 12.9
 Total Depth 3975 Chlorides 13400 ppm System LCM 1#

Blow Description IF: Strong blow. BoB @ 12 min. IST: No blow.
FF: Strong blow. BoB @ 8 min.
FST: Weak 2" BB throughout

Rec	Feet of	%gas	%oil	%water	%mud
120	GIP	100			
250	OCM		15	85	
380	Clean gassy oil	25	75		
195	MC60	10	50	40	

Rec Total 825 BHT 113 Gravity 31 API RW N/C @ N/C °F Chlorides 13400 ppm

(A) Initial Hydrostatic 1937 Test 1150 T-On Location 0715
 (B) First Initial Flow 143 Jars T-Started 0736
 (C) First Final Flow 248 Safety Joint T-Open 0854
 (D) Initial Shut-In 1336 Circ Sub T-Pulled 1140
 (E) Second Initial Flow 267 Hourly Standby T-Out 1407
 (F) Second Final Flow 327 Mileage 80 124 Comments _____
 (G) Final Shut-In 1349 Sampler _____
 (H) Final Hydrostatic 1893 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1274

Sub Total 1274

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