



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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



1081639

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
---	---

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				

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> <input type="checkbox"/> Other (Specify) _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	--	---



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 9/4/2011
 Invoice # 3849

P.O.#:
 Due Date: 10/4/2011
 Division: Russell

Invoice

Contact:
 CHARTER ENERGY
Address/Job Location:
 CHARTER ENERGY
 P.O. BOX 252
 GREAT BEND KS 67530

*CK 5046
 9-19-11*

Reference:
 CJ & M 1

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No				
Common-Class A	400	\$ 5,223.66	Yes				
Bulk Truck Mat-Material Service Charge	422	\$ 903.44	No				
Calcium Chloride	14	\$ 564.37	Yes				
Pump Truck Mileage-Job to Nearest Camp	24	\$ 256.39	No				
Premium Gel (Bentonite)	8	\$ 139.41	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 150.03	No				
8 5/8" Top Rubber Plug	1	\$ 113.46	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 96.34	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 8,424.53
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,263.68)

SubTotal for Taxable Items:	\$ 5,216.66
SubTotal for Non-Taxable Items:	\$ 1,944.19
Total:	\$ 7,160.85
Tax:	\$ 432.98
Amount Due:	\$ 7,593.83
Applied Payments:	
Balance Due:	\$ 7,593.83

8.30% Pawnee County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

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Date: 9/4/2011
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Invoice Terms:

Net 30

SubTotal: \$ 8,424.53

Discount Available ONLY if Invoice is Paid & Received

Signature

Doug Budz

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. 3849

Date	9-1-11	Sec.	25	Twp.	20	Range	16	County	Pawnee	State	Ks	On Location		Finish	10:30 AM
Lease	LJ+m	Well No.	#1	Location Dundee, Ks - 11 w to 80th Rd, 25											
Contractor	Royal Rig #1	Owner to V Rd, 2 W, 3 S										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.	1056'	Charge To											
Csg.	8 5/8"	Depth	1056'	Charter Energy											
Tbg. Size		Depth		Street											
Tool		Depth		City											
				State											
Cement Left in Csg.	44.05'	Shoe Joint	44.05'	The above was done to satisfaction and supervision of owner agent or contractor.											
Meas Line		Displace	64 Bcs	Cement Amount Ordered 400 sx Common 3% CC											

EQUIPMENT

Pumptrk	1	No.	Cementer/Helper	Cisto	2% Gel
Bulktrk	12	No.	Driver	Brian S.	Common 400
Bulktrk	p.u.	No.	Driver	Rick	Poz. Mix
					Gel. 8
					Calcium 14

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.	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	
		Sand	
		Handling 422	
		Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	1- Baffle plate
	1- Rubber plug
Pumptrk Charge	Long Surface
Mileage	24

X Signature	Doug Budz	Tax	
		Discount	
		Total Charge	

SWIFT



Services, Inc.

P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
9/7/2011	22264

BILL TO
Charter Energy, Inc. P. O. Box 252 Great Bend, KS 67530-0252

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	CJ&M	Pawnee	Royal Drilling	Oil	Development	5 1/2" LongString	Jason

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	75	Miles	6.00	450.00
578D-L	Pump Charge - Long String - 3869 Feet	1	Job	1,500.00	1,500.00
402-5	5 1/2" Centralizer	8	Each	70.00	560.00T
403-5	5 1/2" Cement Basket	1	Each	250.00	250.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	350.00	350.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)	2	Gallon(s)	25.00	50.00T
276	Flocele	44	Lb(s)	2.00	88.00T
283	Salt	900	Lb(s)	0.20	180.00T
284	Calseal	8	Sack(s)	35.00	280.00T
286	Halad-1 (Halad 9)	100	Lb(s)	7.50	750.00T
287	Gas Stop (2 LBS/SK)	350	Lb(s)	8.00	2,800.00T
325	Standard Cement	175	Sacks	13.50	2,362.50T
581D	Service Charge Cement	175	Sacks	2.00	350.00
583D	Drayage	699.15	Ton Miles	1.00	699.15
	Subtotal				11,544.65
	Sales Tax Pawnee County			8.30%	709.28

CL 5055
9-19-11

We Appreciate Your Business!	Total	\$12,253.93
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Services, Inc.

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

TICKET No 22264

PAGE 1 OF 2

SERVICE LOCATIONS: 1. Ness City, KS

WELL/PROJECT NO. #1

LEASE: OS DM

COUNTY: PAWNEE

STATE: KS

CITY: Pawnee Park, KS

DATE: 7 SEP 11

OWNER:

TICKET TYPE: SERVICE

CONTRACTOR: ROYAL DRILLING

RIG NAME/NO.:

WELL TYPE: OIL

WELL CATEGORY: DEVELOPMENT

JOB PURPOSE: 5x8x60 STRING

WELL PERMIT NO.:

WELL LOCATION: 33W 2N 3E S1E 150

INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
575					MILEAGE A 11D	75	MIL			6.00	450.00
578					PUMP CHARGE	1	JOB	380.9	HR.	1500.00	1500.00
402					NEUTRALIZERS	8	EA.			7.00	56.00
403					CEMENT BASKET	1	EA.			250.00	250.00
406					LATCH DOWN PLUG & Baffle	1	EA.			250.00	250.00
407					INSERT FLOAT SHOE w/AIR FILL	1	EA.			350.00	350.00
281					MUD FLUSH	500	gal			1.25	625.00
281					LIQUID KCL	2	gal			25.00	50.00

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 SEP 11

TIME SIGNED: 2:33 PM

APPROVAL: [Signature]

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 2

TOTAL: 12,253.93

Thank You!



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

TICKET CONTINUATION

TICKET No. 22264

CUSTOMER CHARTER ENERGY

WELL CS dm #1

DATE 7 SEP 11 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT		
		LOC	ACCT	DR			QTY.	UM	QTY.	UM				
276														
283						FLUCEL	44	lbs				2.00	88.00	
284						SALT	900	lbs				0.20	180.00	
284						CAISEAL	85	x				3.50	297.50	
287						HALAD-1	100	lbs				7.50	750.00	
						GAS STOP	350	lbs				8.00	2800.00	
325						STANDARD CEMENT	175	5x				13.50	2362.50	
581						SERVICE CHARGE						2.00	350.00	
583						MILEAGE CHARGE						1.00	699.15	
							TOTAL WEIGHT	18644						
							LOADED MILES	75						
							CUBIC FEET	175	5x					
							TON MILES	699.15						
CONTINUATION TOTAL												7509.65		

JOB LOG

SWIFT Services, Inc.

DATE 7 SEP 11 PAGE NO.

CUSTOMER
CHARTER ENERGY

WELL NO.
1

LEASE
CJ&M

JOB TYPE
5 1/2 LONG STRING

TICKET NO.
22264

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1900							ON LOCATION
	2105							START PIPE 5 1/2" 14# RTD @ 3880 TOTAL PIPE 3869.27 SHD JT 20.97 CENTRALIZERS 2,4,6,8,10,12,14,16,18 BASKET # 3
	2225							DROP BALL CIRCULATE.
	2231	6	12		✓		300	Pump 500 gal MUD FLUSH
	2233	6	20		✓		300	Pump 20 Bbl KCL FLUSH
	2237		7.5					PLUG RH-MA (30sx-20sx)
	2241	4	30		✓			MIX 125SX EA2
	2254							WASH OUT PUMPING LINES.
	2257	6			✓			RELEASE PLUG START DISPLACEMENT
	2313	∅	94		✓		1500	PLUG DOWN PRESSURE UP LATCH PLUG IN
	2315							RELEASE PRESSURE
	2318							WASH TRUCK
	2345							JOB COMPLETE
								THANKS #110
								JASON JEFF DAVID



DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252,
Great Bend KS 67530 + 0252

ATTN: Jim Musgrove

25-20s-16w Pawnee,KS

CJM #1

Start Date: 2011.09.04 @ 13:56:00

End Date: 2011.09.04 @ 18:56:45

Job Ticket #: 44535 DST #: 1

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

Printed: 2012.05.21 @ 10:48:00

Charter Energy
CJM #1
25-20s-16w Pawnee,KS
DST # 1
2011.09.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

CJM #1
25-20s-16w Pawnee,KS
 Job Ticket: 44535 **DST#: 1**
 Test Start: 2011.09.04 @ 13:56:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:26:00
 Time Test Ended: 18:56:45

Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 54

Interval: 3461.00 ft (KB) To 3500.00 ft (KB) (TVD)
 Total Depth: 3500.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2047.00 ft (KB)
 2042.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6755

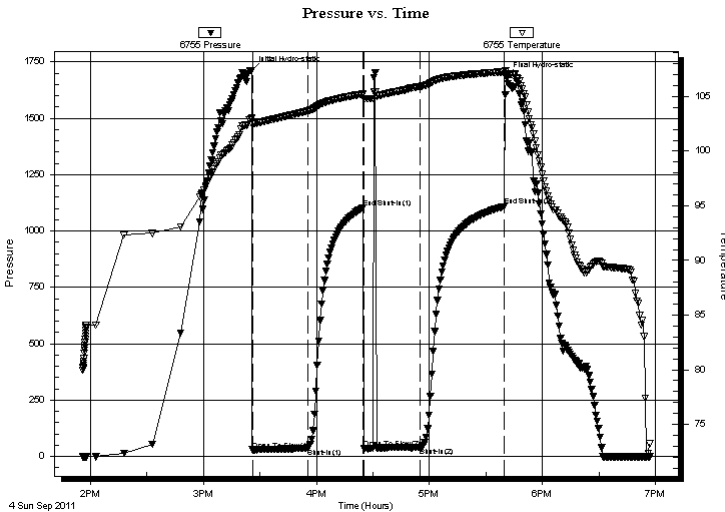
Outside

Press @ Run Depth: 40.51 psig @ 3497.00 ft (KB)
 Start Date: 2011.09.04 End Date: 2011.09.04
 Start Time: 13:56:02 End Time: 18:56:45

Capacity: 8000.00 psig
 Last Calib.: 2011.09.04
 Time On Btm: 2011.09.04 @ 15:25:45
 Time Off Btm: 2011.09.04 @ 17:40:30

TEST COMMENT: 30 - IF- 1/4" Blow , died in 23 Min.
 30 - IS- No blow back
 30 - FF- No blow back, flushed tool, no blow back
 45 - FS- No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.58	103.02	Initial Hydro-static
1	29.80	102.46	Open To Flow (1)
30	36.09	103.67	Shut-In(1)
59	1103.36	105.23	End Shut-In(1)
60	36.05	104.78	Open To Flow (2)
89	40.51	105.92	Shut-In(2)
134	1109.63	107.27	End Shut-In(2)
135	1686.28	107.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud, 100%M	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

Job Ticket: 44535

DST#: 1

ATTN: Jim Musgrove

Test Start: 2011.09.04 @ 13:56:00

Tool Information

Drill Pipe:	Length: 3455.00 ft	Diameter: 3.80 inches	Volume: 48.46 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: 2.75 inches	Volume: 0.00 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 48.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3461.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	60.00 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			3441.00	
Shut In Tool	5.00			3446.00	
Hydraulic tool	5.00			3451.00	
Packer	5.00			3456.00	21.00 Bottom Of Top Packer
Packer	5.00			3461.00	
Stubb	1.00			3462.00	
Perforations	2.00			3464.00	
Change Over Sub	1.00			3465.00	
Drill Pipe	31.00			3496.00	
Change Over Sub	1.00			3497.00	
Recorder	0.00	8673	Inside	3497.00	
Recorder	0.00	6755	Outside	3497.00	
Bullnose	3.00			3500.00	39.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

Job Ticket: 44535

DST#: 1

ATTN: Jim Musgrove

Test Start: 2011.09.04 @ 13:56:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud, 100%M	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

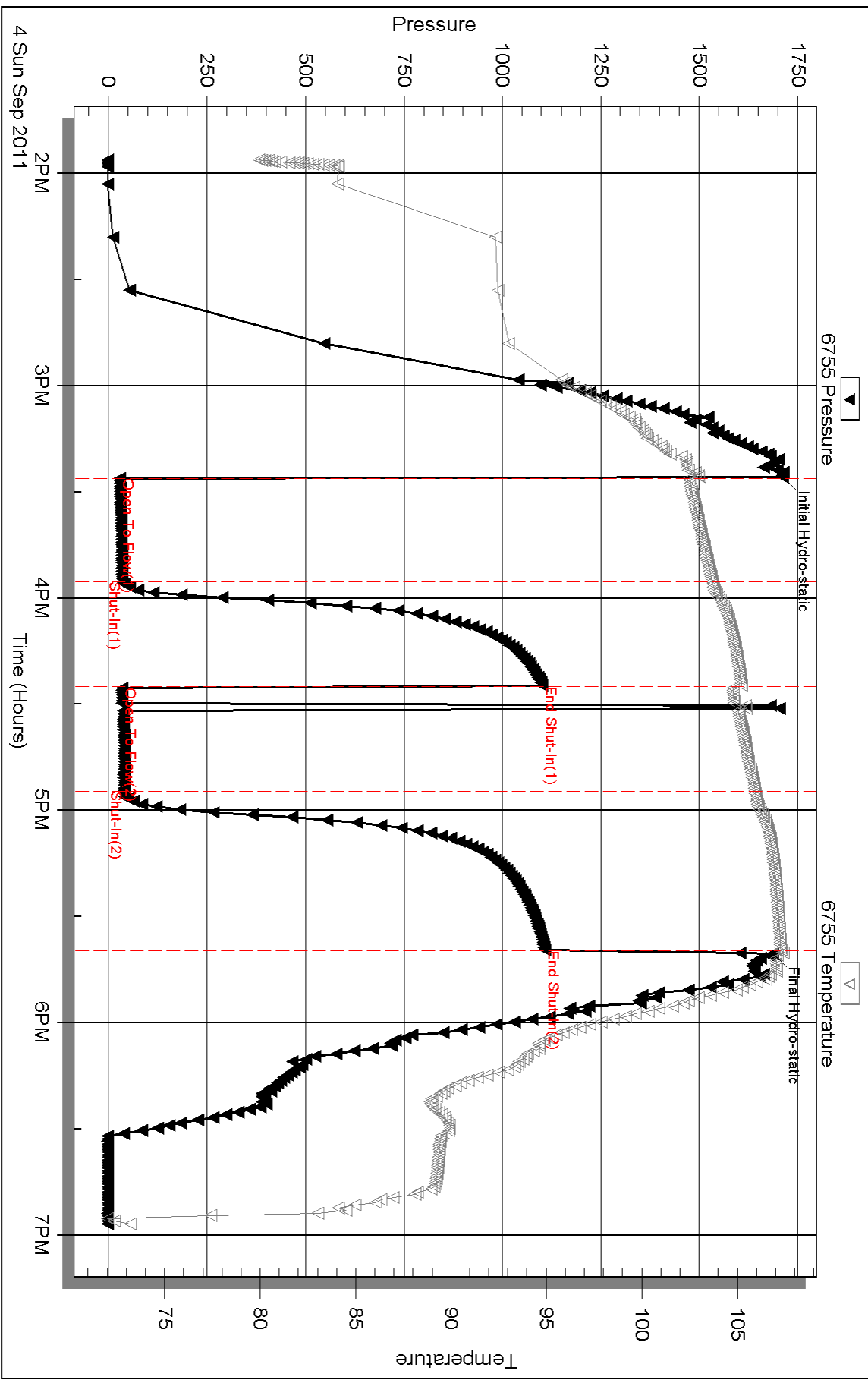
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



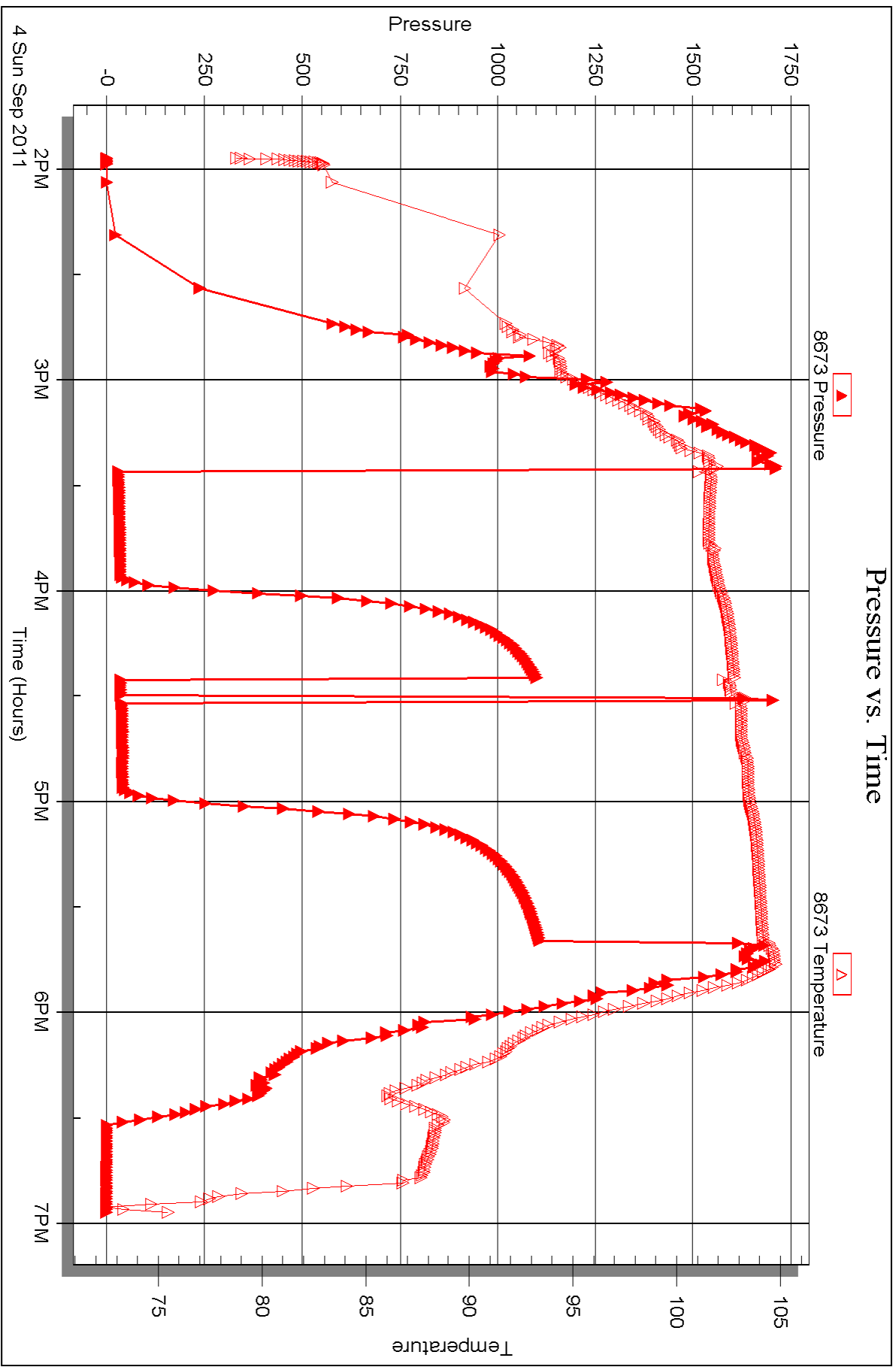
Serial #: 8673

Inside

Charter Energy

25-20s-16w Pawnee, KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252,
Great Bend KS 67530 + 0252

ATTN: Jim Musgrove

25-20s-16w Pawnee,KS

CJM #1

Start Date: 2011.09.05 @ 18:25:00

End Date: 2011.09.05 @ 23:58:45

Job Ticket #: 44536 DST #: 2

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

Printed: 2012.05.21 @ 10:47:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

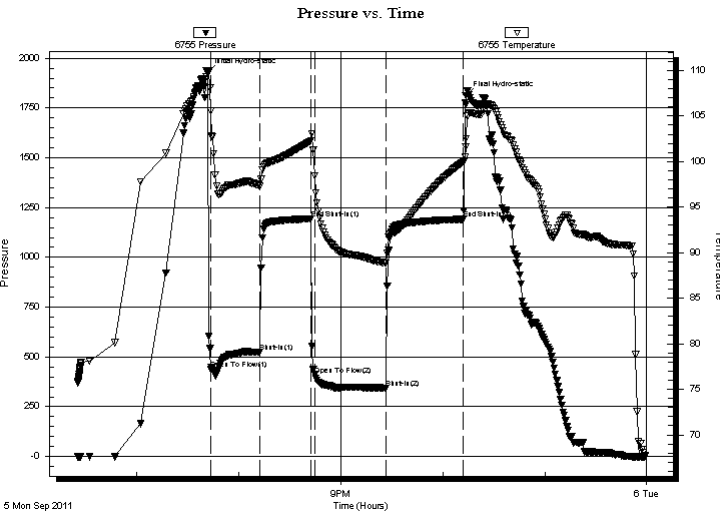
CJM #1
25-20s-16w Pawnee,KS
Job Ticket: 44536 **DST#: 2**
Test Start: 2011.09.05 @ 18:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:43:30
Time Test Ended: 23:58:45
Interval: **3701.00 ft (KB) To 3770.00 ft (KB) (TVD)**
Total Depth: 3770.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 54
Reference Elevations: 2047.00 ft (KB)
2042.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6755 Outside
Press @ Run Depth: 344.45 psig @ 3767.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.09.05 End Date: 2011.09.05 Last Calib.: 2011.09.06
Start Time: 18:25:02 End Time: 23:58:45 Time On Btm: 2011.09.05 @ 19:41:45
Time Off Btm: 2011.09.05 @ 22:13:30

TEST COMMENT: 30 - IF- B.O.B. instantly, G.T.S., Gauging
30 - IS- 27 Min to bleed off, No blow back
45 - FF- B.O.B. instantly, G.T.S., gauging gas
45 - FS- Bled off in 10 Min, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.99	110.02	Initial Hydro-static
2	437.40	105.53	Open To Flow (1)
31	523.56	97.31	Shut-In(1)
61	1193.41	102.30	End Shut-In(1)
63	410.02	98.47	Open To Flow (2)
105	344.45	88.85	Shut-In(2)
151	1191.40	99.98	End Shut-In(2)
152	1812.79	101.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Mud	1.74
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	52.00	1908.92
Last Gas Rate	1.00	56.00	2023.92
Max. Gas Rate	1.00	56.00	2023.92



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

Job Ticket: 44536

DST#: 2

ATTN: Jim Musgrove

Test Start: 2011.09.05 @ 18:25:00

Tool Information

Drill Pipe:	Length: 3706.00 ft	Diameter: 3.80 inches	Volume: 51.99 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: 2.75 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 51.99 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3701.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	90.00 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			3681.00	
Shut In Tool	5.00			3686.00	
Hydraulic tool	5.00			3691.00	
Packer	5.00			3696.00	21.00 Bottom Of Top Packer
Packer	5.00			3701.00	
Stubb	1.00			3702.00	
Perforations	2.00			3704.00	
Change Over Sub	1.00			3705.00	
Drill Pipe	61.00			3766.00	
Change Over Sub	1.00			3767.00	
Recorder	0.00	8673	Inside	3767.00	
Recorder	0.00	6755	Outside	3767.00	
Bullnose	3.00			3770.00	69.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

Job Ticket: 44536

DST#: 2

ATTN: Jim Musgrove

Test Start: 2011.09.05 @ 18:25:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Mud	1.739
0.00	GTS	0.000

Total Length: 124.00 ft

Total Volume: 1.739 bbl

Num Fluid Samples: 0

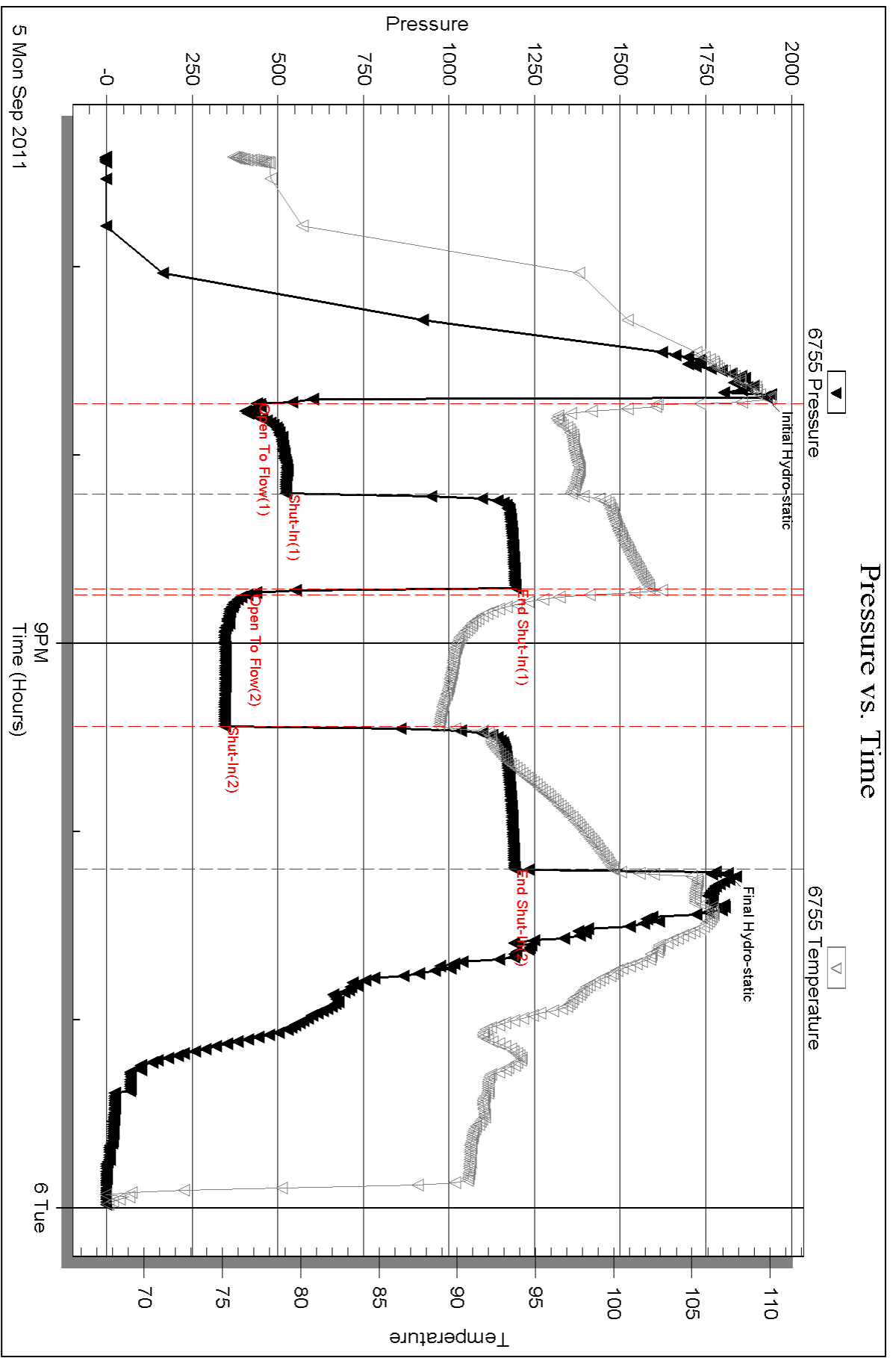
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



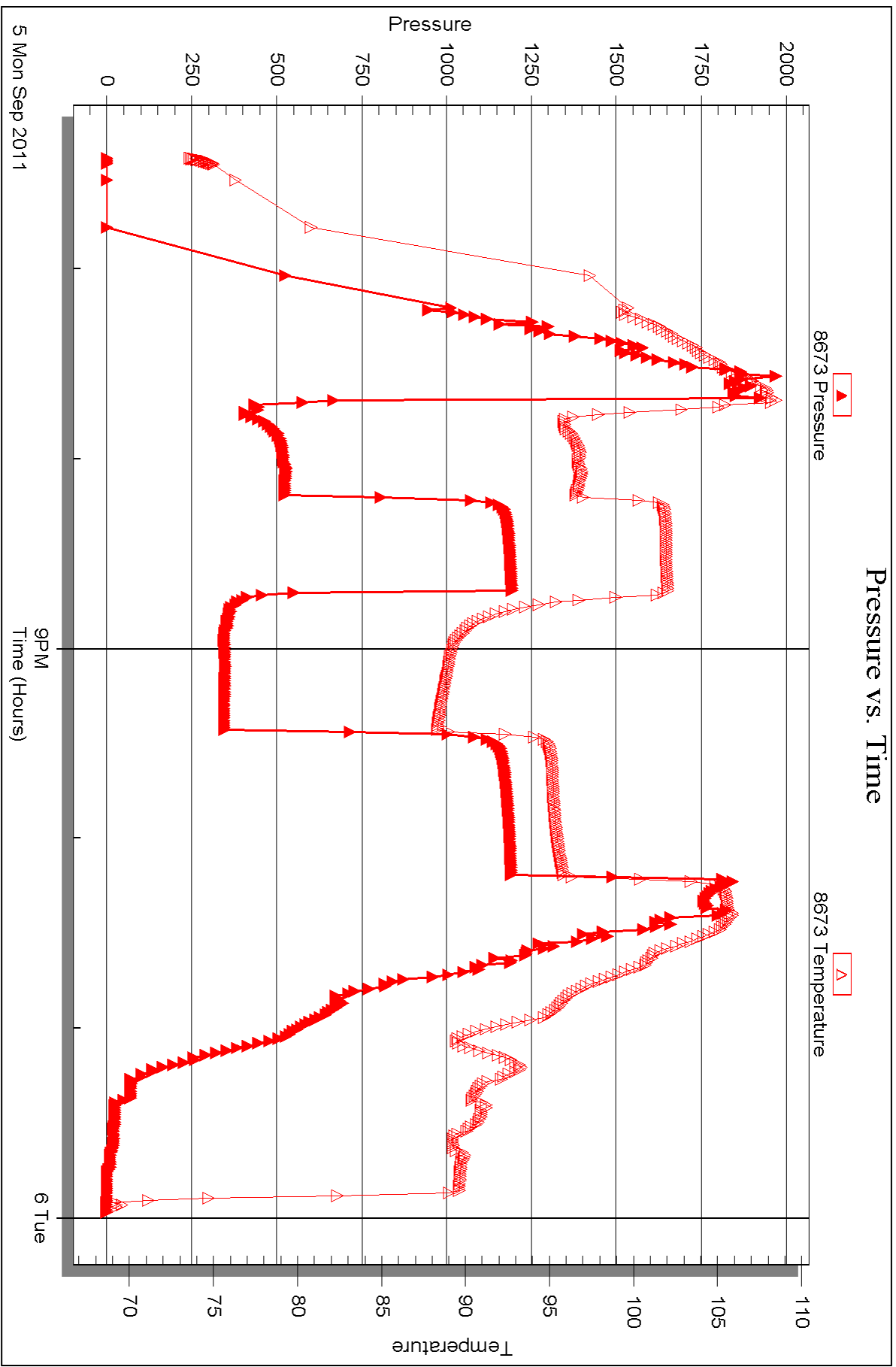
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Inside

Charter Energy

25-20s-16w Pawnee, KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252,
Great Bend KS 67530 + 0252

ATTN: Jim Musgrove

25-20s-16w Pawnee,KS

CJM #1

Start Date: 2011.09.06 @ 05:32:00

End Date: 2011.09.06 @ 11:16:00

Job Ticket #: 44538 DST #: 3

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

Printed: 2012.05.21 @ 10:46:28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

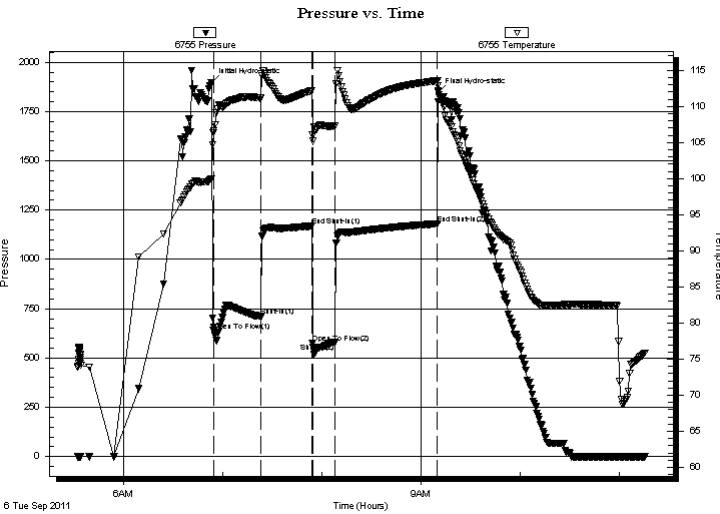
CJM #1
25-20s-16w Pawnee,KS
 Job Ticket: 44538 **DST#: 3**
 Test Start: 2011.09.06 @ 05:32:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 06:54:15 Tester: Cody Bloedorn
 Time Test Ended: 11:16:00 Unit No: 54
 Interval: **3770.00 ft (KB) To 3785.00 ft (KB) (TVD)** Reference Elevations: 2047.00 ft (KB)
 Total Depth: 3785.00 ft (KB) (TVD) 2042.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 6755 Outside
 Press @ Run Depth: 575.68 psig @ 3771.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.09.06 End Date: 2011.09.06 Last Calib.: 2011.09.06
 Start Time: 05:32:02 End Time: 11:16:00 Time On Btm: 2011.09.06 @ 06:53:00
 Time Off Btm: 2011.09.06 @ 09:10:30

TEST COMMENT: 30 - IF- B.O.B. instantly, G.T.S, Gauged
 30 - IS- Bled off in 10 Min, 7" blow
 15 - FF- B.O.B. instantly, G.T.S., Gauging, in 15 Min, had Oil to surface, shut it in.
 60 - FS- bled off in 32 Min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.09	100.01	Initial Hydro-static
2	639.29	106.33	Open To Flow (1)
31	710.73	111.15	Shut-In(1)
61	1169.34	112.19	End Shut-In(1)
62	576.81	106.01	Open To Flow (2)
75	575.68	107.26	Shut-In(2)
137	1180.41	113.56	End Shut-In(2)
138	1848.21	112.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OMW, 10%O, 70%W, 20%M	0.87
62.00	MOW, 20%M, 20%O, 60%W	0.87
40.00	WMO, 10%W, 40%M, 50%O	0.56
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	548.00	892.19
Last Gas Rate	0.25	498.00	812.87
Max. Gas Rate	0.25	548.00	892.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

Job Ticket: 44538

DST#: 3

ATTN: Jim Musgrove

Test Start: 2011.09.06 @ 05:32:00

Tool Information

Drill Pipe:	Length: 3770.00 ft	Diameter: 3.80 inches	Volume: 52.88 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: 2.75 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 52.88 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3770.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	36.00 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			3750.00	
Shut In Tool	5.00			3755.00	
Hydraulic tool	5.00			3760.00	
Packer	5.00			3765.00	21.00 Bottom Of Top Packer
Packer	5.00			3770.00	
Stubb	1.00			3771.00	
Recorder	0.00	8673	Inside	3771.00	
Recorder	0.00	6755	Outside	3771.00	
Perforations	11.00			3782.00	
Bullnose	3.00			3785.00	15.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

Job Ticket: 44538

DST#: 3

ATTN: Jim Musgrove

Test Start: 2011.09.06 @ 05:32:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	OMW, 10%O, 70%W, 20%M	0.870
62.00	MOW, 20%M,20%O, 60%W	0.870
40.00	WMO, 10%W, 40%M, 50%O	0.561
0.00	GTS	0.000

Total Length: 164.00 ft

Total Volume: 2.301 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

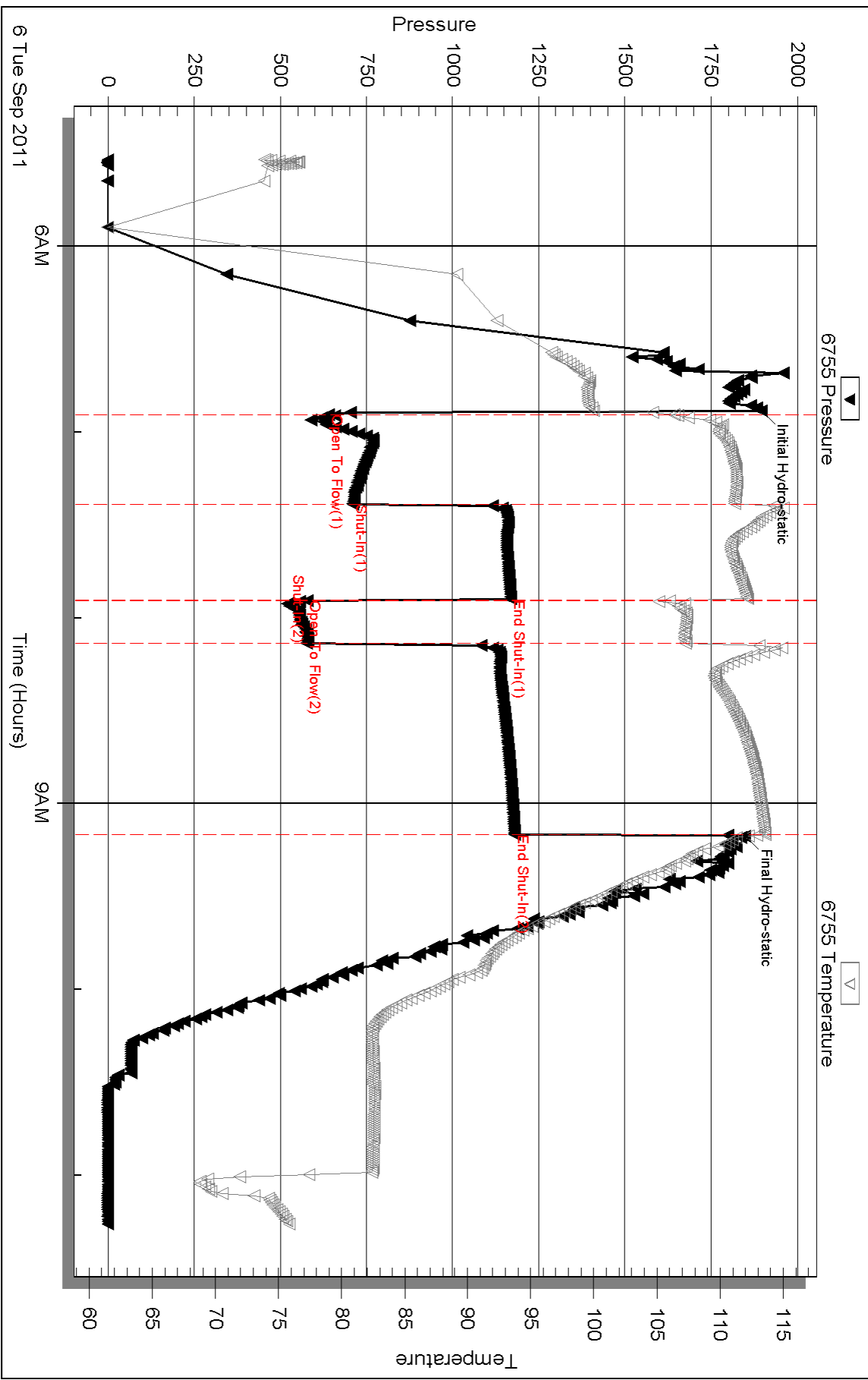
Serial #: 6755

Outside Charter Energy

25-20s-16w Pawnee, KS

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44538

Printed: 2012.05.21 @ 10:46:30

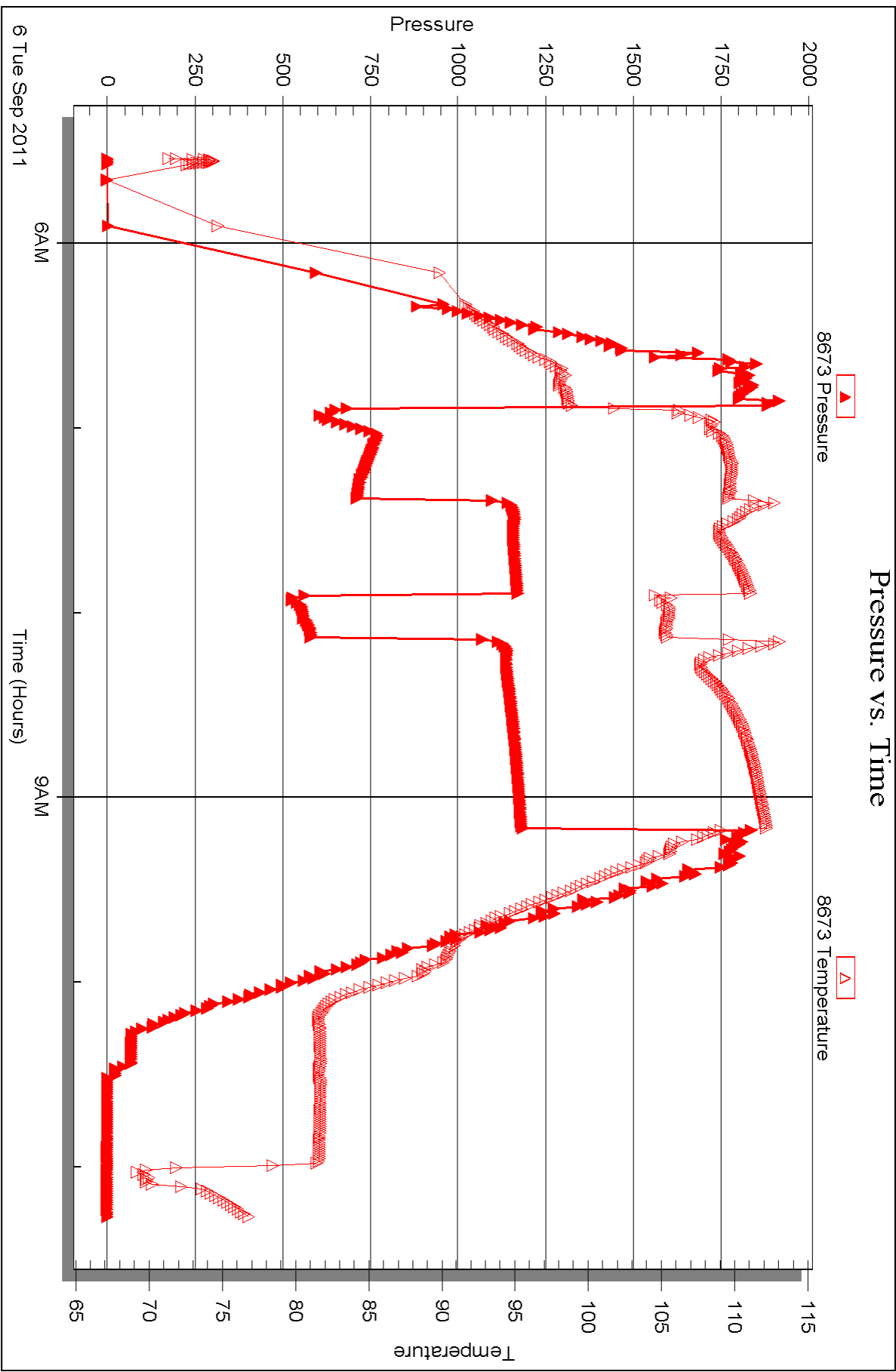
Serial #: 8673

Inside

Charter Energy

25-20s-16w Pawnee, KS

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252,
Great Bend KS 67530 + 0252

ATTN: Jim Musgrove

25-20s-16w Pawnee,KS

CJM #1

Start Date: 2011.09.06 @ 17:06:00

End Date: 2011.09.07 @ 00:45:30

Job Ticket #: 44539 DST #: 4

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

Printed: 2012.05.21 @ 10:45:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

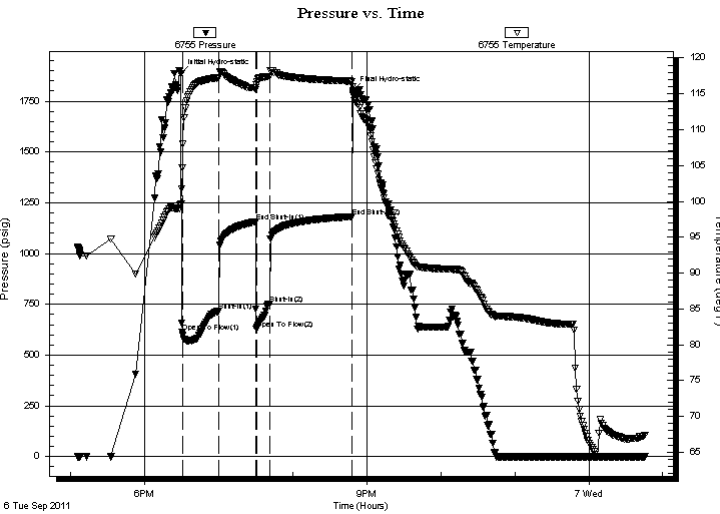
CJM #1
25-20s-16w Pawnee,KS
 Job Ticket: 44539 **DST#: 4**
 Test Start: 2011.09.06 @ 17:06:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:30:45
 Time Test Ended: 00:45:30
 Interval: **3785.00 ft (KB) To 3800.00 ft (KB) (TVD)**
 Total Depth: 3800.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 54
 Reference Elevations: 2047.00 ft (KB)
 2042.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6755 Outside
 Press @ Run Depth: 752.52 psig @ 3797.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.09.06 End Date: 2011.09.07 Last Calib.: 2011.09.07
 Start Time: 17:06:02 End Time: 00:45:30 Time On Btm: 2011.09.06 @ 18:29:45
 Time Off Btm: 2011.09.06 @ 20:49:00

TEST COMMENT: 30 - IF- B.O.B. instantly, G.T.S. instantly, Gauging
 30 - IS- Never bled off
 11 - FF- Oil to surface in 6 Min. w aited 5 Min and shut it in.
 45 - FS- bled off in 42 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.15	99.59	Initial Hydro-static
1	613.89	104.73	Open To Flow (1)
31	716.85	117.24	Shut-In(1)
61	1157.00	115.84	End Shut-In(1)
61	627.78	116.27	Open To Flow (2)
72	752.52	117.44	Shut-In(2)
139	1180.81	116.75	End Shut-In(2)
140	1799.99	116.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GWO, 5%W, 20%G, 75%O	0.87
62.00	GWO, 20%G, 20%W, 60%O	0.87
124.00	WO, 40%W, 60%O	1.74
124.00	MW, Oil scum, 5%M, 95%W	1.74
124.00	Water, oil scum, 100%W	1.74
0.00	2592' of G.I.P., lost 1178' of oil.	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	84.00	2828.88
Last Gas Rate	1.00	66.00	2311.40
Max. Gas Rate	1.00	84.00	2828.88



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

CJM #1
25-20s-16w Pawnee,KS
Job Ticket: 44539 **DST#: 4**
Test Start: 2011.09.06 @ 17:06:00

Tool Information

Drill Pipe:	Length: 3770.00 ft	Diameter: 3.80 inches	Volume: 52.88 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: 2.75 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 52.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3785.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	36.00 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			3765.00	
Shut In Tool	5.00			3770.00	
Hydraulic tool	5.00			3775.00	
Packer	5.00			3780.00	21.00 Bottom Of Top Packer
Packer	5.00			3785.00	
Stubb	1.00			3786.00	
Perforations	11.00			3797.00	
Recorder	0.00	8673	Inside	3797.00	
Recorder	0.00	6755	Outside	3797.00	
Bullnose	3.00			3800.00	15.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee, KS

Job Ticket: 44539

DST#: 4

ATTN: Jim Musgrove

Test Start: 2011.09.06 @ 17:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GWO, 5%W, 20%G, 75%O	0.870
62.00	GWO, 20%G, 20%W, 60%O	0.870
124.00	WO, 40%W, 60%O	1.739
124.00	MW, Oil scum, 5%M, 95%W	1.739
124.00	Water, oil scum, 100%W	1.739
0.00	2592' of G.I.P., lost 1178' of oil.	0.000

Total Length: 496.00 ft Total Volume: 6.957 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity: 35 @ 60 Degrees = 35, Water Salinity: .23@66Degrees = 40,000

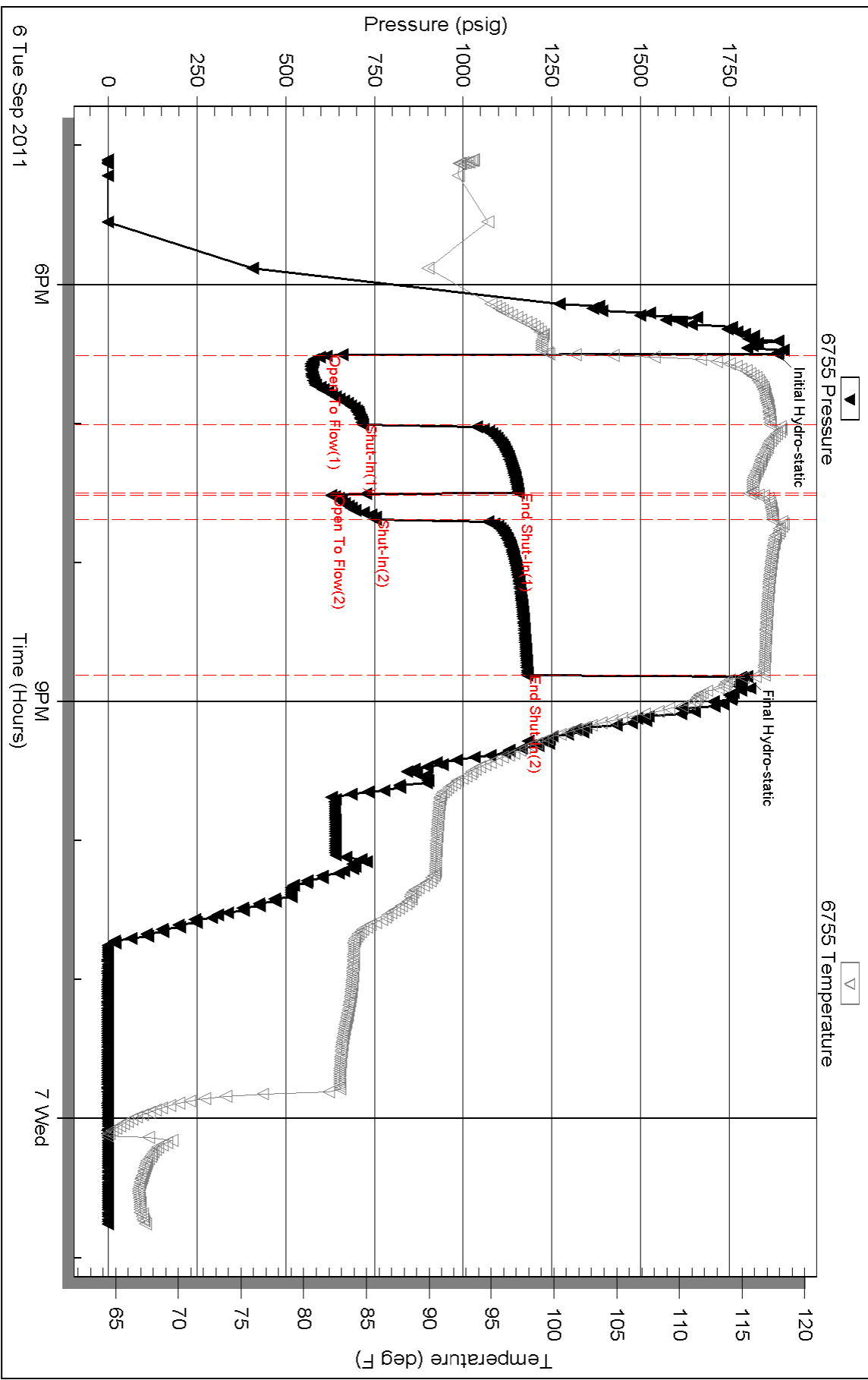
Serial #: 6755

Outside Charter Energy

25-20s-16w Pawnee, KS

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44539

Printed: 2012.05.21 @ 10:45:32

Serial #: 8673

Inside

Charter Energy

25-20s-16w Pawnee, KS

DST Test Number: 4

