Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1190332

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 # 9090
Name: Charter Energy, Inc.
Address 1: PO BOX 252
Address 2:
City: GREAT BEND State: KS Zip: 67530 + 0252
Contact Person: Steve Baize
Phone: (620) 793-9090
CONTRACTOR: License # 33905
Name: Royal Drilling Inc
Wellsite Geologist: Kurt Talbott
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 #:

11/19/2013	12/02/2013	12/16/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23838-00-00
Spot Description:
E2 - SW - SW - NE Sec. 32 Twp. 22 S. R. 14 ☐ East ☑ West
2310 Feet from ☑ North / ☐ South Line of Section
2293 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Stafford
Lease Name: Concept Well #: 1
Field Name:
Producing Formation: Simpson Sand
Elevation: Ground: 1957 Kelly Bushing: 1964
Total Vertical Depth: 4095 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 462 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: 54000 ppm Fluid volume: 700 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Bob's Hauling Serv.
Lease Name: Hyter "A" License #: 33779
Quarter NE Sec. 12 Twp. 24 S. R. 15 ☐ East ☑ West
County: Stafford Permit #: D19913.0

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:** Deanna Garrison **Date:** 02/24/2014

[redacted] 1190332

Operator Name: Charter Energy, Inc. Lease Name: Concept Well #: 1

Sec. 32 Twp. 22 S. R. 14 ☐ East ☑ West County: Stafford

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

CDN, DIL, Micro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner	3401	-1437
Lansing	3541	-1577
Viola	3904	-1940
Simpson Sand	3988	-2024
Arbuckle	4032	-2068

CASING RECORD ☐ New ☑ 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
Surface	12.25	8.625	23	462	common	400	3% cc 2% gel
Production	7.875	5.5	15.5	4090	EA-2	175	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth
2	3989 - 4003	1500 gal 10% INS	
		Frac w/ 600 bbl gelled H2O and	
		20,000# sand	

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 01/04/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	2		3		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665** **No. 7566**

Cell 785-324-1041 11-20-13

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-19-13	32	22	14	Stafford	Ks		9:45 AM

Location Radium Rd + K-19, 45 to 100th Street

Lease Concept Well No. 1 Owner IE 1/3, w/Into

Contractor Royal 1 — 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

Hole Size 12 1/4" T.D. 462' — Charge To Chartec Energy

Csg. 8 5/8" Depth 462' — Street

Tbg. Size Depth — City State

Tool Depth — The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 15' Shoe Joint 15' — Cement Amount Ordered 400 sx 60/40 3%CC 2% Gel

Meas Line Displace 28 1/4 BLS — 1/2 # Flo-seal

EQUIPMENT

Pumptrk 16 No. Cementer / Helper Lonnie W.

Bulktrk 1 No. Driver / Driver Lonnie M.

Bulktrk Pilot No. Driver / Driver Rick

JOB SERVICES & REMARKS

Remarks: Cement did Circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
1 - Wooden plug	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature Doug Buckley

SWIFT Services, Inc.

CHARGE TO: Charter Energy
ADDRESS
CITY, STATE, ZIP CODE

TICKET 25305

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays, Ks.	#1	Concept	Stafford	Ks		12-2-13	same
2. Ness City, Ks	TICKET TYPE ☑ SERVICE ☐ SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.		Royal Drlg		CT	Longstring		
4.	WELL TYPE	WELL CATEGORY	JOB PURPOSE		WELL PERMIT NO.	WELL LOCATION	
REFERRAL LOCATION	oil	Development	Longstring				
	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE # 112	70	mi			6 00	420 00
578		1			Pump Charge (Longstring)	1	ea	4095	'	1500 00	1500 00
221		1			KCL	2	gal			25 00	50 00
281		1			Mud Flush	500	gal			1 25	625 00
290		1			D-Air	2	gal			42 00	84 00
402		1			Centralizers	8	ea	5½	"	70 00	560 00
406		1			L.D. Plug & Baffle	1	ea	5		275 00	275 00
407		1			Insert Float Shoe w/ F.U.	1	ea	5		375 00	375 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

X

DATE SIGNED 12-2-13 TIME SIGNED 2200 ☐ A.M. ☑ P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
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? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL page 2	3889 00
	4796 00
	831
subtotal	9685 00
Stafford TAX 7.15%	720
	415 16
TOTAL	9135 16

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

SWIFT OPERATOR Nick Rostine

APPROVAL

Thank You!

SWIFT Services, Inc.

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

TICKET CONTINUATION

TICKET No. 25305

CUSTOMER Charter Energy | WELL #1 Concept | DATE 12-2-13 | PAGE 1 | OF 1

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
325		2				Standard	175	sks			14 50	2537 50
276		2				Flocele	50	#			2 50	125 00
283		2				Salt	900	#			20	180 00
284		2				Calseal	9	sks			35 00	315 ~~280~~ 00
286		2				Halad-1	80	#			8 50	680 00
581		2				SERVICE CHARGE	175	CUBIC FEET			2 00	350 00
583		2				MILEAGE CHARGE / TOTAL WEIGHT 18380 / LOADED MILES 70	643.5	TON MILES			1 00	643 50

CONTINUATION TOTAL ~~4276~~ 4831 00

JOB LOG

SWIFT Services, Inc.

DATE 12-2-13 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Charter Energy	#1	Concept	Longstring	25305

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1800							on loc w/ FE
								RTD 4095'
								5½ x 14# x 15.5# x 4090' x 15'
								67% 33%
								Cent. 1, 3, 5, 7, 9, 11, 13, 15
	1830							start FE
	2025							Break Circ.
	2105	2	7/5					Plug RH + MH 30/20 sks EA-2
	2115	5	0				200	Start 500 gal Mud flush
		5	12/0				200	start 20 bbl KCL flush
		5	20/0				200	start 125 sks EA-2 Cement
	2125		30					End Cement
								wash P+L
								Drop L.D. Plug
	2130	6.5	0				200	start Displacement
	2140	5	70				250	Catch Cement
	2145		98.5				700/1500	Land Plug
								Release Pressure
								Float Held
								Thank you
								Nick, Josh, & Rob

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

Concept #1

32- 22s-14w Stafford,KS

Start Date: 2013.11.25 @ 01:50:31
End Date: 2013.11.25 @ 10:16:31
Job Ticket #: 55426 DST #: 1

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

Printed: 2013.12.04 @ 13:58:18

DRILL STEM TEST REPORT

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 55426 **DST#: 1**

Test Start: 2013.11.25 @ 01:50:31

GENERAL INFORMATION:

Formation: **LKC 'H'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:29:31
Time Test Ended: 10:16:31

Test Type: Conventional Bottom Hole (Initial)
Tester: Brannan L
Unit No: 67

Interval: 3655.00 ft (KB) To 3674.00 ft (KB) (TVD)
Total Depth: 3674.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

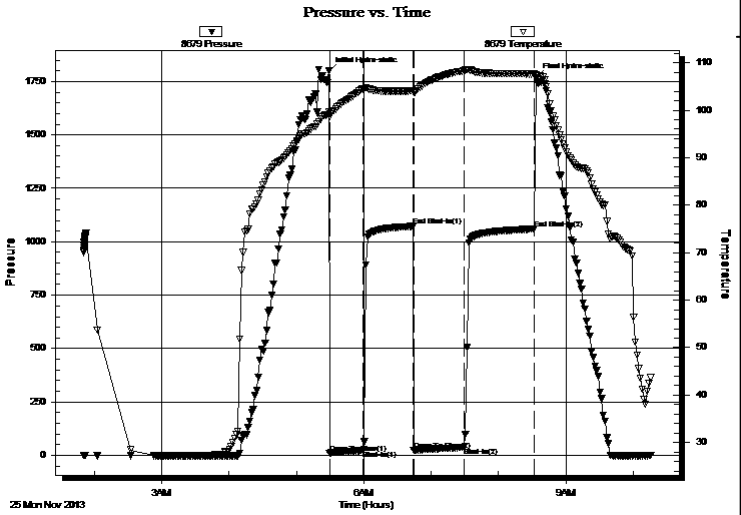
Reference Elevations: 1964.00 ft (KB)
1957.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8679 **Inside**

Press@RunDepth: 37.98 psig @ 3670.00 ft (KB)
Start Date: 2013.11.25 End Date: 2013.11.25
Start Time: 01:50:32 End Time: 10:16:31

Capacity: 8000.00 psig
Last Calib.: 2013.11.11
Time On Btm: 2013.11.25 @ 05:29:01
Time Off Btm: 2013.11.25 @ 08:33:31

TEST COMMENT: 30- IF- Built to 5"
45- ISI- Very weak surface blow
45- FF- Slowly built to 5"
60- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1798.21	99.62	Initial Hydro-static
1	9.85	98.58	Open To Flow (1)
31	23.42	104.52	Shut-In(1)
75	1072.47	104.08	End Shut-In(1)
76	23.88	103.71	Open To Flow (2)
120	37.98	108.28	Shut-In(2)
183	1059.91	107.64	End Shut-In(2)
185	1769.63	107.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MW, 85%W	0.20

Gas Rates

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

DRILL STEM TEST REPORT

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 55426 **DST#: 1**

Test Start: 2013.11.25 @ 01:50:31

GENERAL INFORMATION:

Formation: **LKC 'H'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:29:31
Time Test Ended: 10:16:31

Test Type: Conventional Bottom Hole (Initial)
Tester: Brannan L
Unit No: 67

Interval: 3655.00 ft (KB) To 3674.00 ft (KB) (TVD)
Total Depth: 3674.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

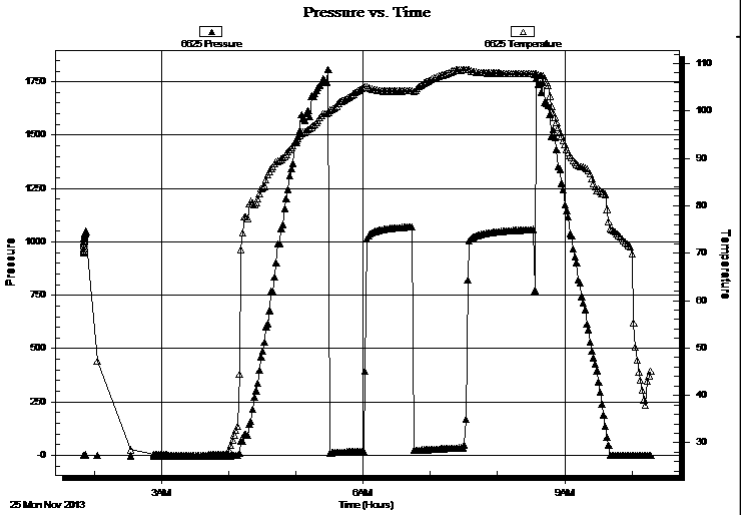
Reference Elevations: 1964.00 ft (KB)
1957.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6625 **Outside**

Press@RunDepth: psig @ 3670.00 ft (KB)
Start Date: 2013.11.25 End Date: 2013.11.25
Start Time: 01:50:10 End Time: 10:17:39

Capacity: 8000.00 psig
Last Calib.: 2013.11.11
Time On Btm:
Time Off Btm:

TEST COMMENT: 30- IF- Built to 5"
45- ISI- Very weak surface blow
45- FF- Slowly built to 5"
60- FSI- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MW, 85%W	0.20

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 55426 **DST#: 1**

Test Start: 2013.11.25 @ 01:50:31

Tool Information

Drill Pipe:	Length:	3647.00 ft	Diameter:	3.75 inches	Volume:	49.82 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:	75000.00 lb	
					Total Volume:	- bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:		12.00 ft					String Weight: Initial	68000.00 lb	
Depth to Top Packer:		3655.00 ft					Final	69000.00 lb	
Depth to Bottom Packer:		ft							
Interval betw een Packers:		19.00 ft							
Tool Length:		39.00 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			3636.00		
Shut In Tool	5.00			3641.00		
Hydraulic tool	5.00			3646.00		
Packer	4.00			3650.00	20.00	Bottom Of Top Packer
Packer	5.00			3655.00		
Stubb	1.00			3656.00		
Perforations	14.00			3670.00		
Recorder	0.00	6625	Outside	3670.00		
Recorder	0.00	8679	Inside	3670.00		
Bullnose	4.00			3674.00	19.00	Bottom Packers & Anchor
Total Tool Length:	**39.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 55426 **DST#: 1**

Test Start: 2013.11.25 @ 01:50:31

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:		deg API
Mud Weight:		lb/gal	Cushion Length:	ft	Water Salinity:	25000 ppm
Viscosity:		sec/qt	Cushion Volume:	bbl		
Water Loss:		in³	Gas Cushion Type:			
Resistivity:		ohm.m	Gas Cushion Pressure:	psig		
Salinity:		ppm				
Filter Cake:		inches				

Recovery Information

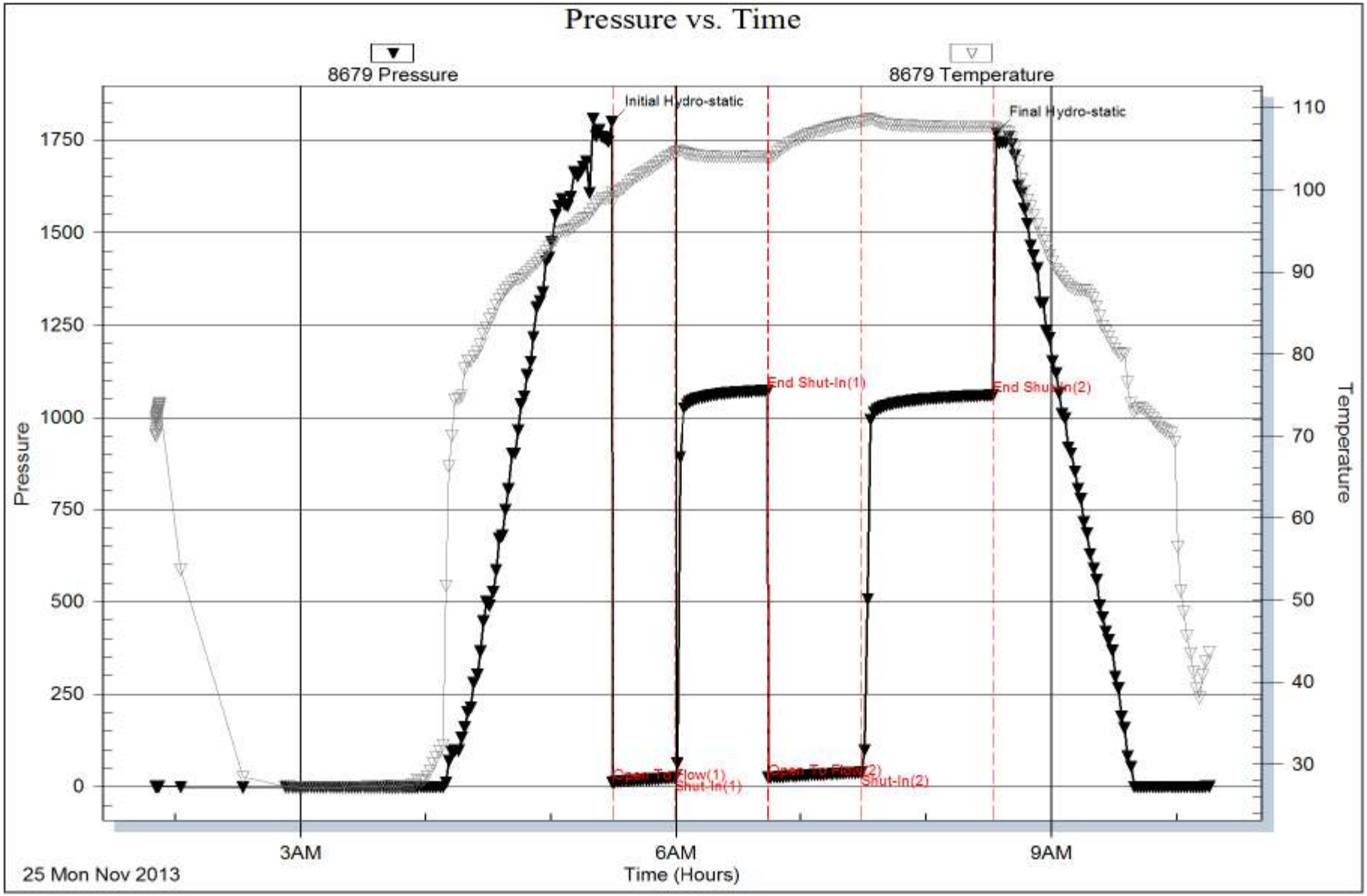
Recovery Table

Length ft	Description	Volume bbl
15.00	MW, 85%W	0.205

Total Length: 15.00 ft Total Volume: 0.205 bbl

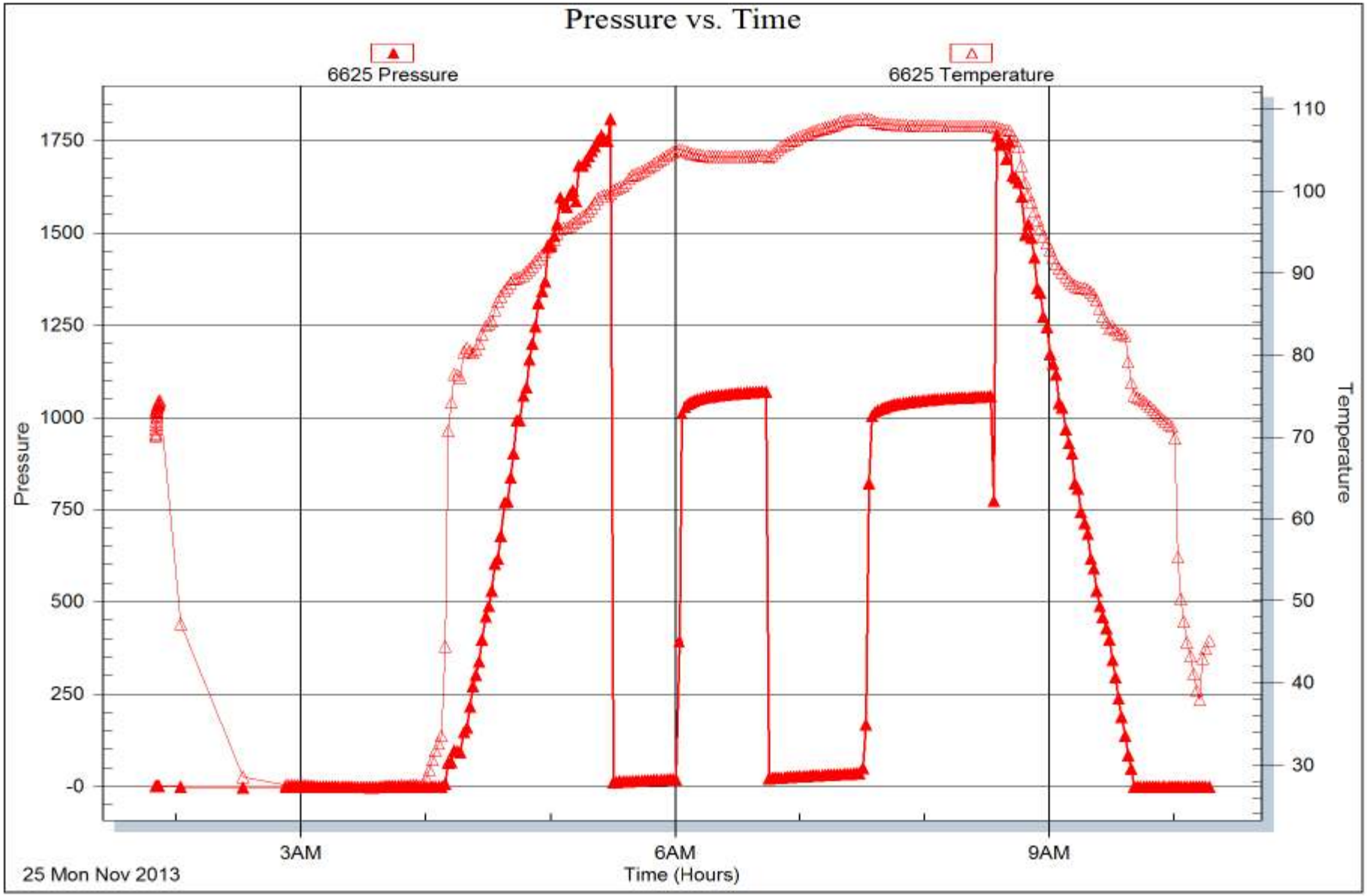
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8679 **Inside** Charter Energy, Inc. Concept #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 55426 Printed: 2013.12.04 @ 13:58:20

Serial #: 6625 **Outside** Charter Energy, Inc. Concept #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 55426 Printed: 2013.12.04 @ 13:58:20

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

Concept #1

32- 22s-14w Stafford,KS

Start Date: 2013.11.25 @ 17:32:22

End Date: 2013.11.26 @ 00:18:22

Job Ticket #: 55427 DST #: 2

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

Printed: 2013.12.04 @ 13:25:53

DRILL STEM TEST REPORT

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 55427 **DST#: 2**

Test Start: 2013.11.25 @ 17:32:22

GENERAL INFORMATION:

Formation: **LKC 'I-J'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:15:22
Time Test Ended: 00:18:22

Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan L
Unit No: 67

Interval: 3676.00 ft (KB) To 3715.00 ft (KB) (TVD)
Total Depth: 3674.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

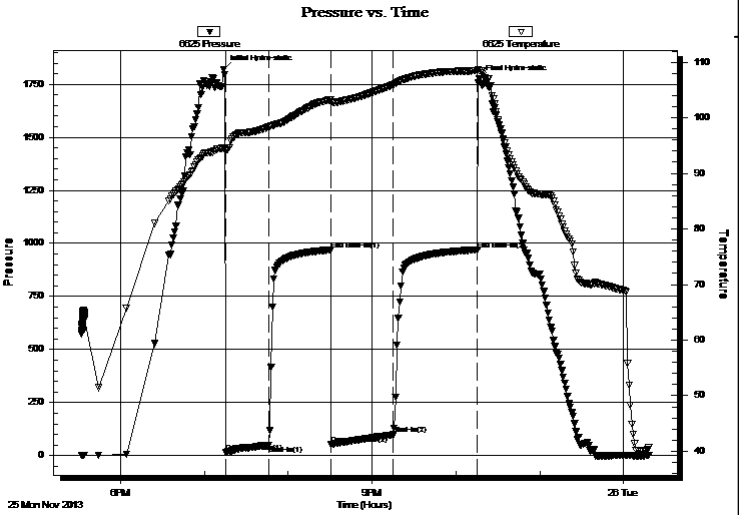
Reference Elevations: 1964.00 ft (KB)
1957.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6625 **Outside**

Press@RunDepth: 98.09 psig @ 3710.00 ft (KB)
Start Date: 2013.11.25 End Date: 2013.11.26
Start Time: 17:32:23 End Time: 00:18:22

Capacity: 8000.00 psig
Last Calib.: 2013.11.11
Time On Btm: 2013.11.25 @ 19:13:52
Time Off Btm: 2013.11.25 @ 22:16:52

TEST COMMENT: 30- IF- BOB 23 mins
45- ISI- No blow
45- FF- BOB 25 mins
60- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.28	94.45	Initial Hydro-static
2	14.73	94.21	Open To Flow (1)
32	49.64	98.33	Shut-In(1)
77	969.54	103.26	End Shut-In(1)
77	53.01	102.95	Open To Flow (2)
122	98.09	105.94	Shut-In(2)
182	970.25	108.46	End Shut-In(2)
183	1774.50	108.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	M	0.82
120.00	MW, 75%W	1.64

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 55427 **DST#: 2**

Test Start: 2013.11.25 @ 17:32:22

GENERAL INFORMATION:

Formation: **LKC 'I-J'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:15:22
Time Test Ended: 00:18:22

Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan L
Unit No: 67

Interval: 3676.00 ft (KB) To 3715.00 ft (KB) (TVD)
Total Depth: 3674.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

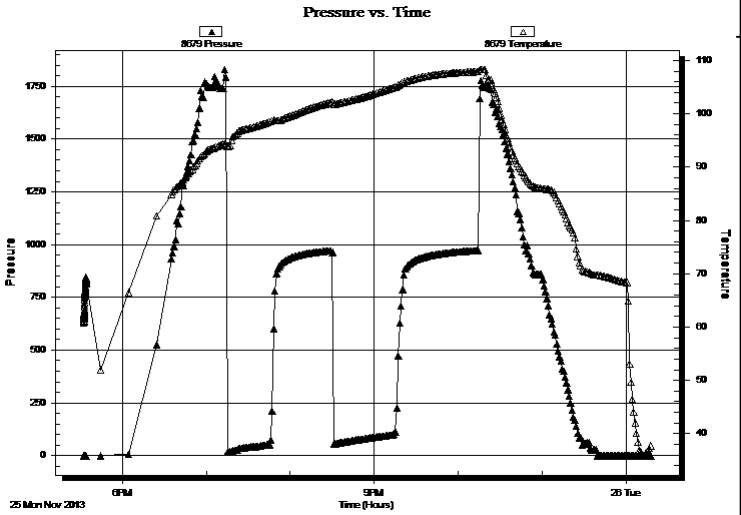
Reference Elevations: 1964.00 ft (KB)
1957.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8679 **Inside**

Press@RunDepth: psig @ 3710.00 ft (KB)
Start Date: 2013.11.25 End Date: 2013.11.26
Start Time: 17:32:35 End Time: 00:17:04

Capacity: 8000.00 psig
Last Calib.: 2013.11.11
Time On Btm:
Time Off Btm:

TEST COMMENT: 30- IF- BOB 23 mins
45- ISI- No blow
45- FF- BOB 25 mins
60- FSI- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	M	0.82
120.00	MW, 75%W	1.64

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 55427 **DST#: 2**

Test Start: 2013.11.25 @ 17:32:22

Tool Information

Drill Pipe:	Length:	3678.00 ft	Diameter:	3.75 inches	Volume:	50.24 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:		76000.00 lb
					Total Volume:	- bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		22.00 ft					String Weight:	Initial	69000.00 lb
Depth to Top Packer:		3676.00 ft						Final	70000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een 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	
Change Over Sub	1.00			3657.00		
Shut In Tool	5.00			3662.00		
Hydraulic tool	5.00			3667.00		
Packer	4.00			3671.00	20.00	Bottom Of Top Packer
Packer	5.00			3676.00		
Stubb	1.00			3677.00		
Perforations	1.00			3678.00		
Change Over Sub	1.00			3679.00		
Drill Pipe	31.00			3710.00		
Recorder	0.00	6625	Outside	3710.00		
Recorder	0.00	8679	Inside	3710.00		
Change Over Sub	1.00			3711.00		
Bullnose	4.00			3715.00	39.00	Bottom Packers & Anchor
Total Tool Length:	**59.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 55427 **DST#: 2**

Test Start: 2013.11.25 @ 17:32:22

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:	23000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9500.00 ppm				
Filter Cake:	inches				

Recovery Information

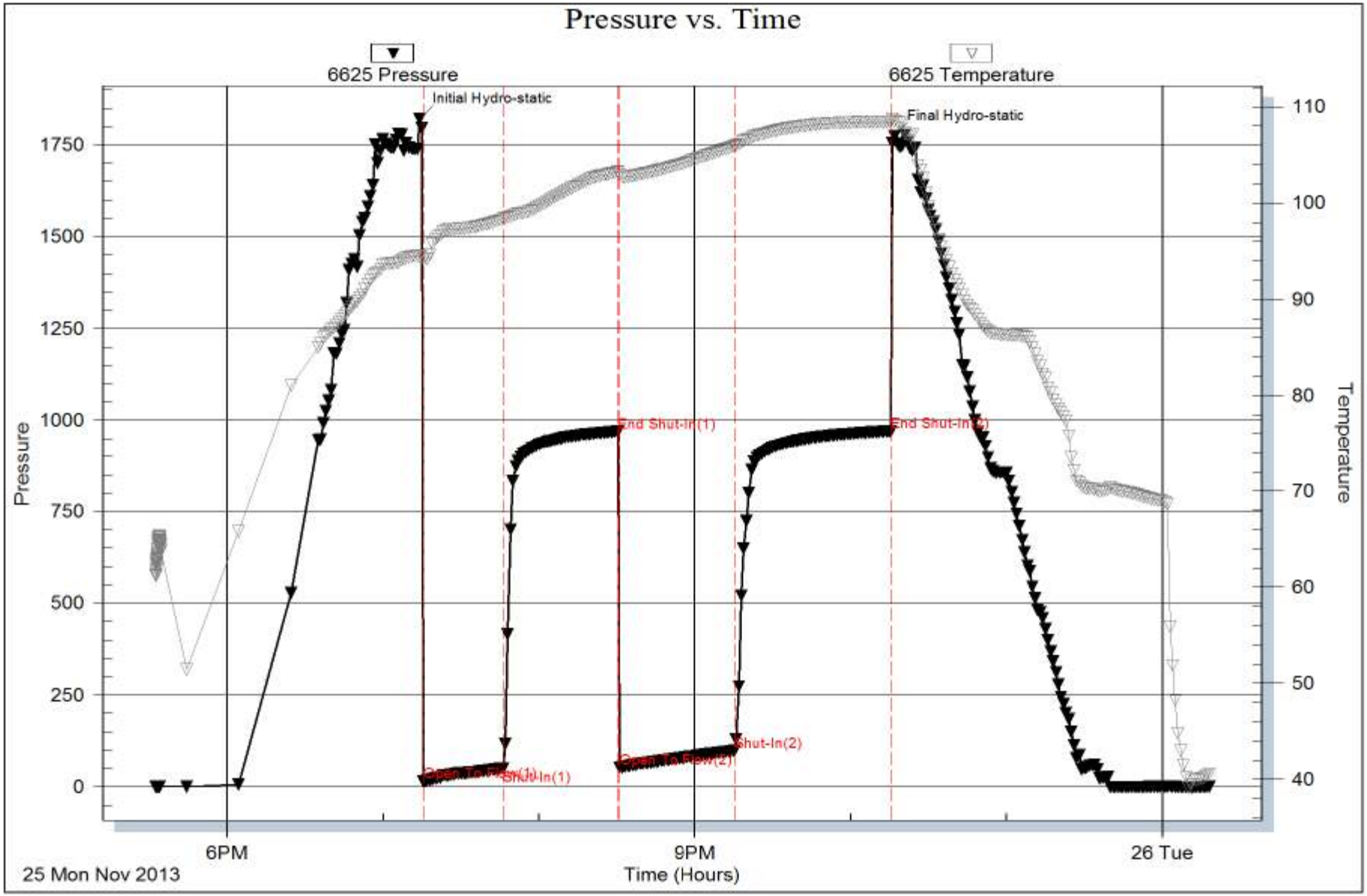
Recovery Table

Length ft	Description	Volume bbl
60.00	M	0.820
120.00	MW, 75%W	1.639

Total Length: 180.00 ft Total Volume: 2.459 bbl

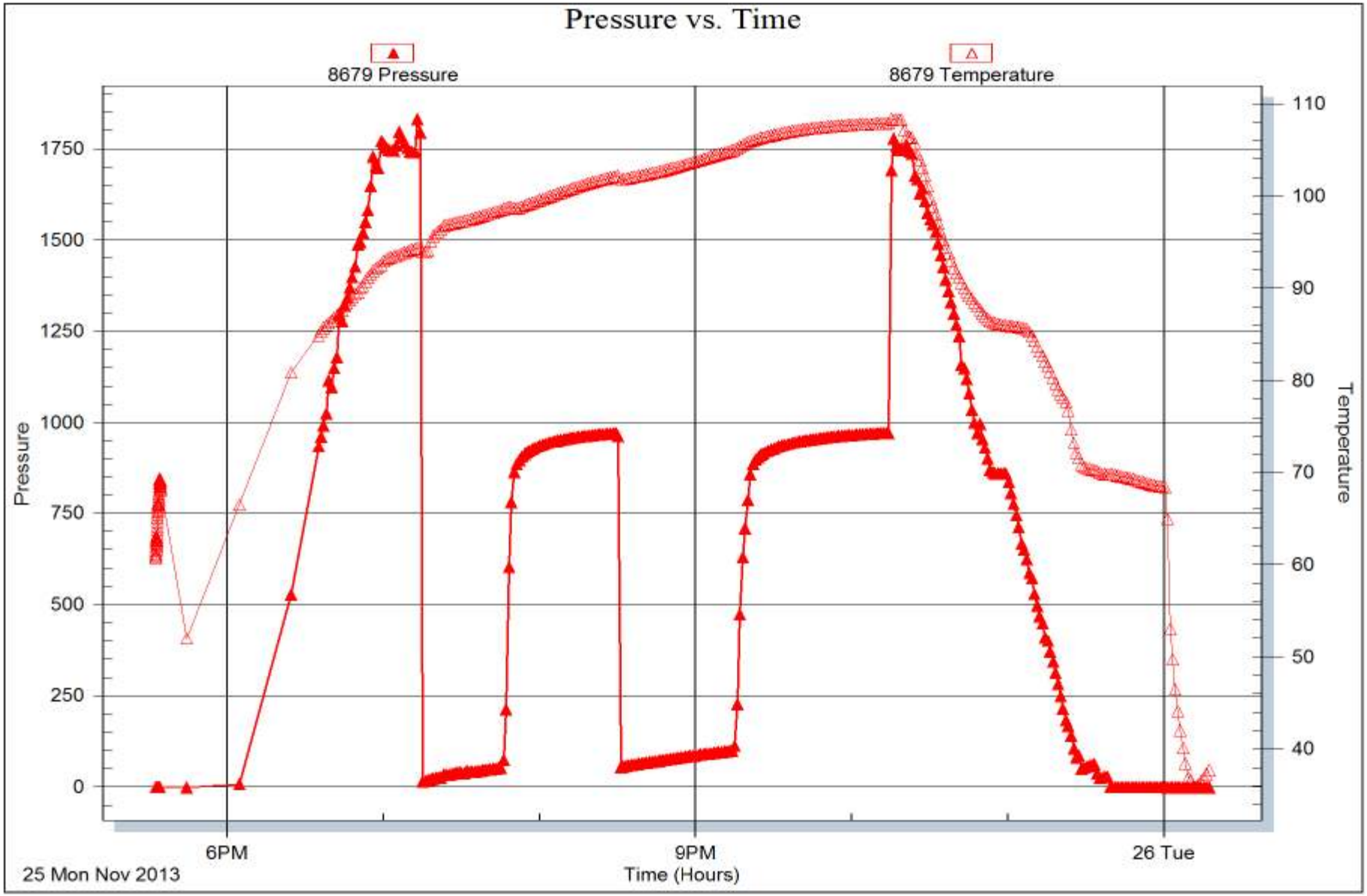
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6625 **Outside** Charter Energy, Inc. Concept #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 55427 Printed: 2013.12.04 @ 13:25:55

Serial #: 8679 **Inside** Charter Energy, Inc. Concept #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 55427 Printed: 2013.12.04 @ 13:25:55

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

Concept #1

32- 22s-14w Stafford,KS

Start Date: 2013.12.01 @ 12:17:16

End Date: 2013.12.01 @ 19:07:01

Job Ticket #: 51901 DST #: 3

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

Printed: 2013.12.04 @ 13:25:02

DRILL STEM TEST REPORT

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 51901 **DST#: 3**

Test Start: 2013.12.01 @ 12:17:16

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:46:01
Time Test Ended: 19:07:01

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 3971.00 ft (KB) To 4013.00 ft (KB) (TVD)
Total Depth: 4013.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

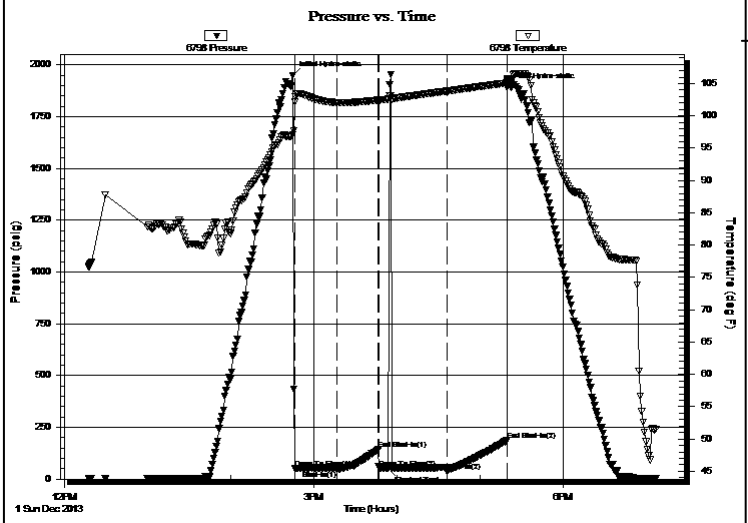
Reference Elevations: 1964.00 ft (KB)
1957.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 39.98 psig @ 3972.00 ft (KB)
Start Date: 2013.12.01 End Date: 2013.12.01
Start Time: 12:17:17 End Time: 19:07:01

Capacity: 8000.00 psig
Last Calib.: 2013.12.01
Time On Btm: 2013.12.01 @ 14:44:31
Time Off Btm: 2013.12.01 @ 17:19:16

TEST COMMENT: IF: Weak Blow , 3 inch Died Off to 1/4 inch by 30 minutes
ISI: No Blow Back
FF: No Blow , Flushed Tool, Weak Surface Blow
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.78	97.11	Initial Hydro-static
2	50.70	102.13	Open To Flow (1)
32	44.80	102.06	Shut-In(1)
62	143.53	102.45	End Shut-In(1)
63	53.96	102.43	Open To Flow (2)
69	54.54	102.61	Flushed Tool
112	39.98	103.82	Shut-In(2)
155	186.67	105.09	End Shut-In(2)
155	1890.52	105.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud	0.96

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 51901 **DST#: 3**

Test Start: 2013.12.01 @ 12:17:16

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:46:01
Time Test Ended: 19:07:01

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 3971.00 ft (KB) To 4013.00 ft (KB) (TVD)
Total Depth: 4013.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

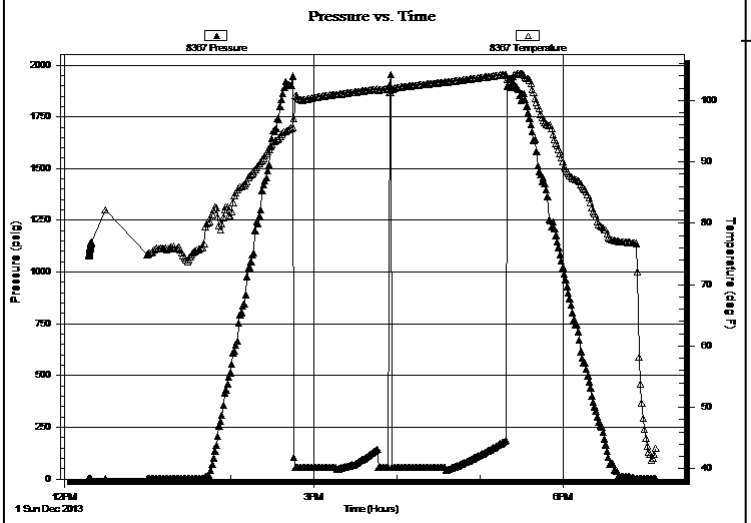
Reference Elevations: 1964.00 ft (KB)
1957.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 3972.00 ft (KB)
Start Date: 2013.12.01 End Date: 2013.12.01
Start Time: 12:17:17 End Time: 19:07:01

Capacity: 8000.00 psig
Last Calib.: 2013.12.01
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Blow , 3 inch Died Off to 1/4 inch by 30 minutes
ISI: No Blow Back
FF: No Blow , Flushed Tool, Weak Surface Blow
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud	0.96

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 51901 **DST#: 3**

Test Start: 2013.12.01 @ 12:17:16

Tool Information

Drill Pipe:	Length:	3963.00 ft	Diameter:	3.75 inches	Volume:	54.14 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:		120000.0 lb
					Total Volume:	- bbl	Tool Chased		ft
Drill Pipe Above KB:		18.00 ft					String Weight:	Initial	78000.00 lb
Depth to Top Packer:		3971.00 ft						Final	78000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		42.00 ft							
Tool Length:		68.00 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			3950.00		
Hydraulic tool	5.00			3955.00		
Jars	5.00			3960.00		
Safety Joint	2.00			3962.00		
Packer	5.00			3967.00	26.00	Bottom Of Top Packer
Packer	4.00			3971.00		
Stubb	1.00			3972.00		
Recorder	0.00	6798	Inside	3972.00		
Recorder	0.00	8367	Outside	3972.00		
Perforations	4.00			3976.00		
Change Over Sub	1.00			3977.00		
Drill Pipe	32.00			4009.00		
Change Over Sub	1.00			4010.00		
Bullnose	3.00			4013.00	42.00	Bottom Packers & Anchor
Total Tool Length:	**68.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbott

32- 22s-14w Stafford,KS

Concept #1

Job Ticket: 51901 **DST#: 3**

Test Start: 2013.12.01 @ 12:17:16

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:	10.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9500.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

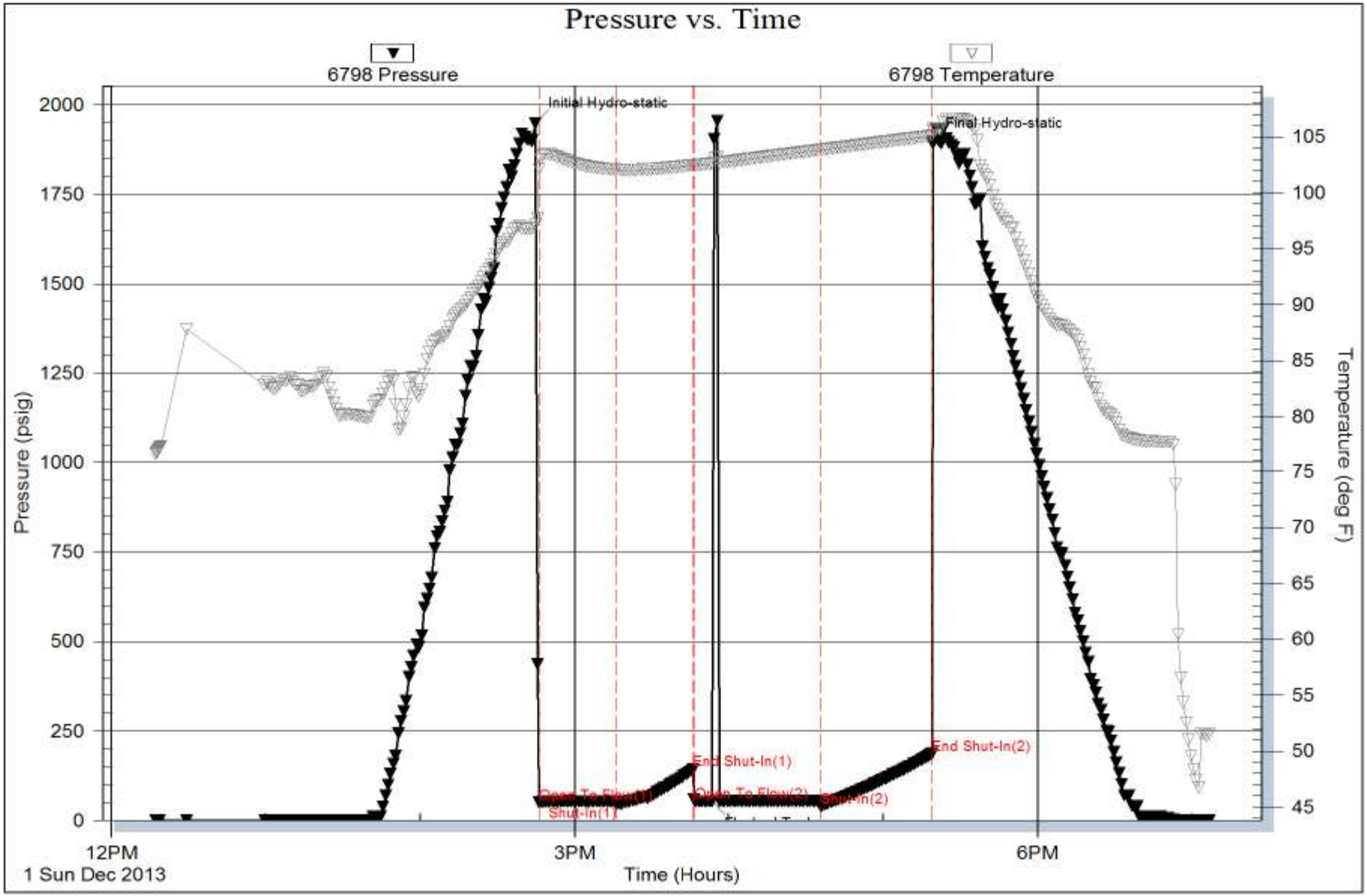
Recovery Table

Length ft	Description	Volume bbl
70.00	Mud	0.956

Total Length: 70.00 ft Total Volume: 0.956 bbl

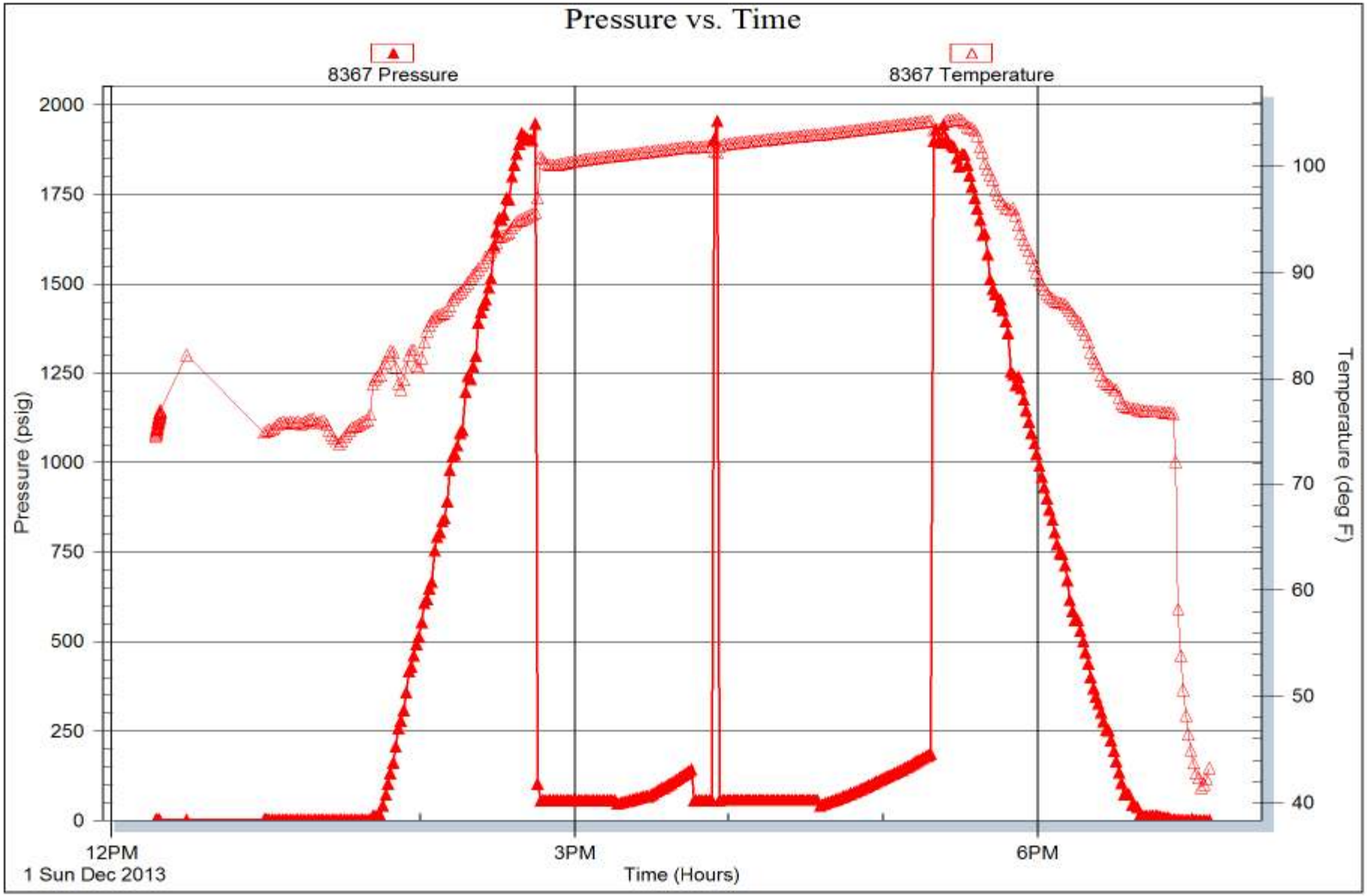
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6798 **Inside** Charter Energy, Inc. Concept #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 51901 Printed: 2013.12.04 @ 13:25:04

Serial #: 8367 **Outside** Charter Energy, Inc. Concept #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 51901 Printed: 2013.12.04 @ 13:25:04

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 55426

Well Name & No. Concept #1 Test No. 1 Date 11/25/13

Company Charter Energy, Inc. Elevation 1957 KB 1964 GL

Address PO Box 252 Great Bend, KS 67530

Co. Rep / Geo. Kurt Talbott Rig Royal #1

Location: Sec. 32 Twp. 22S Rge. 14W Co. Stafford State KS

Interval Tested 3655-3674 Zone Tested Lansing 'H'

Anchor Length 19' Drill Pipe Run 3647 Mud Wt.

Top Packer Depth 3650 Drill Collars Run Vis

Bottom Packer Depth 3655 Wt. Pipe Run WL

Total Depth 3674 Chlorides ppm System LCM

Blow Description IF- Built to 5"

ISI- Very weak surface blow

FF- Slowly built to 5"

FSI- No blow

Rec 15'	Feet of MW	%gas	%oil	85 %water	15 %mud	
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 15' BHT 108° Gravity — API RW .43 @ 45 °F Chlorides 25000 ppm

(A) Initial Hydrostatic 1798	☒ Test 1150	T-On Location 0128
(B) First Initial Flow 10	☐ Jars	T-Started 0150
(C) First Final Flow 23	☐ Safety Joint	T-Open 0529
(D) Initial Shut-In 1072	☐ Circ Sub	T-Pulled 0829
(E) Second Initial Flow 24	☐ Hourly Standby	T-Out 1017
(F) Second Final Flow 38	☒ Mileage 166 RT	Comments
(G) Final Shut-In 1060	☐ Sampler 80rt 124	
(H) Final Hydrostatic 1770	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45	☐ Extra Recorder	Sub Total 0
Final Flow 45	☐ Day Standby	Total 1274
Final Shut-In 60	☐ Accessibility	MP/DST Disc't
	Sub Total 1274	

Approved By Our Representative Brannan L.

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 55427

Well Name & No. Concept #1 Test No. 2 Date 11/25/13

Company Charter Energy, Inc. Elevation 1957 KB 1964 GL

Address PO Box 252 Great Bend, KS 67530

Co. Rep / Geo. Kurt Talbott Rig Royal #1

Location: Sec. 32 Twp. 22s Rge. 14w Co. Stafford State KS

Interval Tested 3676 - 3715 Zone Tested Lansing 'I-J'

Anchor Length 39' Drill Pipe Run 3647 Mud Wt. 9.3

Top Packer Depth 3671 Drill Collars Run — Vis 52

Bottom Packer Depth 3676 Wt. Pipe Run — WL 10.2

Total Depth 3715 Chlorides 9500 ppm System LCM 1/2#

Blow Description IF- BOB in 23 mins
ISI- No blow
FF- BOB in 25 mins
FSI- No blow

Rec 60	Feet of M	%gas	%oil	%water 100	%mud
Rec 120	Feet of MW	%gas	%oil 75	%water 25	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180' BHT 109° Gravity — API RW .45 @ 44 °F Chlorides 23000 ppm

(A) Initial Hydrostatic 1820	☒ Test 1150	T-On Location 1720	
(B) First Initial Flow 15	☐ Jars	T-Started 1732	
(C) First Final Flow 30	☐ Safety Joint	T-Open 1915	
(D) Initial Shut-In 970	☐ Circ Sub	T-Pulled 2215	
(E) Second Initial Flow 53	☐ Hourly Standby	T-Out 0018	
(F) Second Final Flow 98	☒ Mileage 166 RT 124	Comments	
(G) Final Shut-In 970	☐ Sampler		
(H) Final Hydrostatic 1775	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 30	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 45	☐ Extra Recorder	Sub Total 0	
Final Flow 45	☐ Day Standby	Total 1274	
Final Shut-In 60	☐ Accessibility	MP/DST Disc't	
	Sub Total 1274		

Approved By _____ Our Representative Brannan L

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 51901

Well Name & No. Concept 1 Test No. 3 Date 12/01/13

Company Charter Energy Elevation 1964 KB 1957 GL

Address PO Box 252 Great Bend KS 67530

Co. Rep / Geo. Kurt Talbott Rig Royal 1

Location: Sec. 32 Twp. 22S Rge. 14W Co. Stafford State KS

Interval Tested 3971 - 4013 Zone Tested Simpson

Anchor Length 42 Drill Pipe Run 3963 Mud Wt. 8.9

Top Packer Depth 3966 Drill Collars Run 0 Vis 52

Bottom Packer Depth 3971 Wt. Pipe Run 0 WL 10.2

Total Depth 4013 Chlorides 9500 ppm System LCM 1

Blow Description IF: weak Blow, 3 inch died off to 1/4 inch by 30 minutes

ISI: No Blow Back

FF: No Blow, Flushed Tool, weak surface Blow

FSI: No Blow Back

Rec 70	Feet of Mud	%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	Feet of	%gas	%oil	%water	%mud

Rec Total 70 BHT 105 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic	1948	☑ Test	1250	T-On Location	11:45
(B) First Initial Flow	51	☐ Jars		T-Started	12:17
(C) First Final Flow	45	☐ Safety Joint		T-Open	14:46
(D) Initial Shut-In	144	☐ Circ Sub		T-Pulled	17:19
(E) Second Initial Flow	54	☐ Hourly Standby		T-Out	19:07
(F) Second Final Flow	~~50~~ 40	☑ Mileage	100 124	Comments	
(G) Final Shut-In	187	☐ Sampler			
(H) Final Hydrostatic	1891	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	30	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	30	☐ Extra Recorder		Sub Total	0
Final Flow	45	☐ Day Standby		Total	1374
Final Shut-In	45	☐ Accessibility		MP/DST Disc't	
		Sub Total	1374		

Approved By Kurt Talbott Our Representative