Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1245866

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 / Jim Musgrove
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 #:

12/11/2014	12/17/2014	01/05/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-26064-00-00
Spot Description:
SW NE NE SW Sec. 23 Twp. 17 S. R. 14 ☐ East ☑ West
2305 Feet from ☐ North / ☑ South Line of Section
2305 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: Barton
Lease Name: Clark Well #: 1
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1897 Kelly Bushing: 1904
Total Vertical Depth: 3402 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 870 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: 55000 ppm Fluid volume: 700 bbls
Dewatering method used: Evaporated

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:** NAOMI JAMES **Date:** 03/16/2015

1245866

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

Sec. 23 Twp. 17 S. R. 14 ☐ East ☑ West County: Barton

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:

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

Name	Top	Datum
Heebner	3073	-1169
Lansing	3159	-1255
Arbuckle	3389	-1485

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	24	870	70/30	350	3%cc 2% gel
Production	7.875	5.5	14	3395	EA-2	125	none

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

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:
☐ 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. 1102
Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-12-14	23	17	14	Barton	KS		10:00 AM

Location 281 - 4 Jct, 1N, ½E, N/Into

Lease Clark Well No. 1 Owner

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

Hole Size 12¼" T.D. 870'

Csg. 8 5/8" Depth 870'

Charge To Charter Energy

Tbg. Size Depth

Street

Tool Depth

City State

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

Cement Left in Csg. 25' Shoe Joint 25'

Cement Amount Ordered 350 70/30 3%cc 2%Gel

Meas Line Displace 53 3/4

EQUIPMENT

Pumptrk 5 No. Cementer Helper David

Bulktrk 13 No. Driver Driver Doug

~~Bulktrk~~ P.U. No. Driver Driver Rick

JOB SERVICES & REMARKS

Remarks: Cement Did Circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Common	245
Poz. Mix	105
Gel.	7
Calcium	13
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	370
Mileage	

FLOAT EQUIPMENT

Guide Shoe	Baffle plate
Centralizer	Rubber plug
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Long Surface
Mileage	18
Tax	
Discount	
Total Charge	

X Signature Tom Blake

SWIFT Services, Inc.

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

TICKET 28075

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. NESS CITY, KS.		CLARK #1	BARTON	KS.	HOISINGTON, KS.	18 DEC 14	
2.	TICKET TYPE ☐ SERVICE ☐ SALES	CONTRACTOR ROYAL DRILLING #2	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE 5 1/2 LONGSTRING		WELL PERMIT NO.	WELL LOCATION W TO HWY 281N, 1N, 1/2E, 1/2N, WEST INTO	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575					MILEAGE @ 115	60	MIL			6 00	360 00
578					PUMP CHARGE	1	JOB			1500 00	1500 00
402					CENTRALIZERS	5	EA			70 00	350 00
403					CEMENT BASKET	1	EA			300 00	300 00
406					LATCH DOWN PLUG & BAFFLE	1	EA			275 00	275 00
407					INSERT FLOAT SHOE W/ FILL	1	EA			375 00	375 00
281					MUD FLUSH	500	GAL			1 25	625 00
221					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

X

DATE SIGNED 18 DEC 14 TIME SIGNED 1200 ☐ 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 2	3835 00 / 4955 00
Subtotal	8790 50
Barton TAX 7.15%	431 25
TOTAL	9221 75

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

SWIFT OPERATOR

APPROVAL

Thank You!

SWIFT Services, Inc.

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

TICKET CONTINUATION

TICKET No. 28075

CUSTOMER CHARTER ENERGY | WELL CLARK #1 | DATE 18 Dec 14 | PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
276						FLOCELE	50	lbs			2.50	125.00
283						SALT	900	lbs			.20	180.00
283						CALSEAL	8	SX			35.00	280.00
286						HALAD-1	100	lbs			8.50	850.00
290						D-AIR	2	GAL			42.00	84.00
325						STANDARD EA-2	175	SX			14.50	2537.50
581						SERVICE CHARGE	CUBIC FEET	175 SX			2.00	350.00
583						MILEAGE CHARGE TOTAL WEIGHT 18300 LOADED MILES 60	TON MILES	549.0			1.00	549.00

CONTINUATION TOTAL 4955.50

JOB LOG

SWIFT Services, Inc.

DATE 18 Dec 14 | PAGE NO.

CUSTOMER CHARTER ENERGY | WELL NO. | LEASE CLARK #1 | JOB TYPE 5½ LONGSTRING | TICKET NO. 28075

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0030							ON LOCATION
	0345							START PIPE 5½ 14-15.5#
								RTD @ 3402
								SJ. 18.73
								CENTRALIZERS 2,4,6,8,10
								BASKET 7
	0520							CIRCULATE - WAIT ON LOGGING TRUCK
	1035	6	12		↓		300	Pump 500 gal MUD FLUSH
		6	20		↓		300	Pump 20 Bbl KCL SPACER
	1044		7,5					PLUG RH - 30sx MH - 20 sx
	1052	4	30		↓			MIX 125 SX EA-2
	1102							WASH OUT Pump & LINES
	1106	6			↓			START DISPLACING PLUG.
	1120	Ø	81½		↓		1500	PLUG DOWN - LATCH PLUG IN
	1122							RELEASE PSI - DRY
	1124							WASH TRUCK
	1200							JOB COMPLETE.
								THANKS #115
								JASON DAVE ISAAC

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc**

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

Clark #1

23-17s-14w Barton,KS

Start Date: 2014.12.16 @ 12:25:00
End Date: 2014.12.16 @ 19:33:30
Job Ticket #: 61896 DST #: 1

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

Printed: 2014.12.23 @ 10:38:26

DRILL STEM TEST REPORT

Charter Energy Inc

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clark #1

Job Ticket: 61896 **DST#: 1**

Test Start: 2014.12.16 @ 12:25:00

GENERAL INFORMATION:

Formation: **LKC F-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:05:00
Time Test Ended: 19:33:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: S5

Interval: 3207.00 ft (KB) To 3245.00 ft (KB) (TVD)
Total Depth: 3245.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

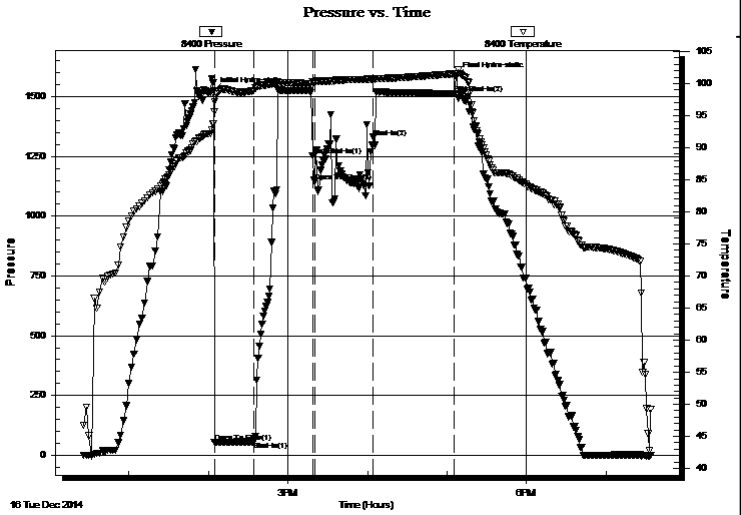
Reference Elevations: 1904.00 ft (KB)
1897.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8400 **Inside**

Press@RunDepth: 1330.25 psig @ 3241.00 ft (KB)
Start Date: 2014.12.16 End Date: 2014.12.16
Start Time: 12:26:00 End Time: 19:33:30

Capacity: 5000.00 psig
Last Calib.: 2014.12.16
Time On Btm: 2014.12.16 @ 14:04:00
Time Off Btm: 2014.12.16 @ 17:06:30

TEST COMMENT: IFP-30 Minutes-Fair blow built to 10"
ISIP-45 Minutes-No blow back
FFP- 45 Minutes-BOB in 1 minute
FSIP-60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1523.45	93.71	Initial Hydro-static
1	53.96	97.13	Open To Flow (1)
30	55.82	98.94	Shut-In(1)
75	1253.50	100.21	End Shut-In(1)
77	1146.49	100.32	Open To Flow (2)
121	1330.25	100.72	Shut-In(2)
182	1513.23	101.54	End Shut-In(2)
183	1584.60	101.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2160.00	mud	30.30

Gas Rates

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

DRILL STEM TEST REPORT

Charter Energy Inc

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clark #1

Job Ticket: 61896 **DST#: 1**

Test Start: 2014.12.16 @ 12:25:00

GENERAL INFORMATION:

Formation: **LKC F-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:05:00
Time Test Ended: 19:33:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: S5

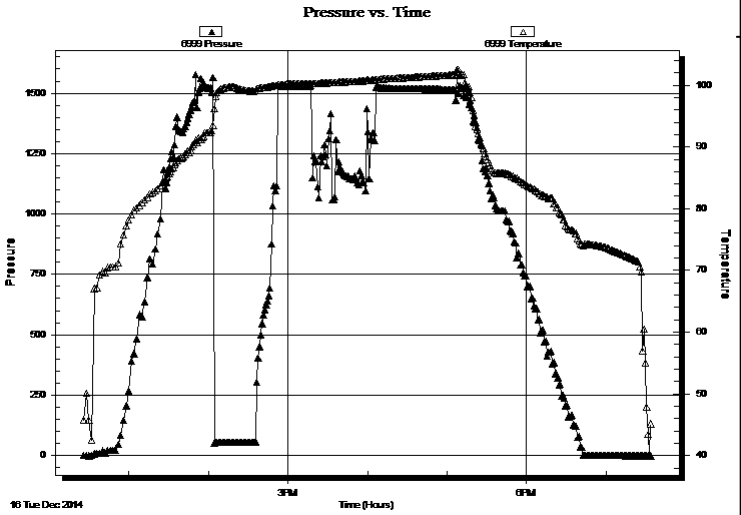
Interval: 3207.00 ft (KB) To 3245.00 ft (KB) (TVD)
Total Depth: 3245.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1904.00 ft (KB)
1897.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6999 **Outside**
Press@RunDepth: psig @ 3241.00 ft (KB)
Start Date: 2014.12.16 End Date: 2014.12.16
Start Time: 12:26:00 End Time: 19:33:30

Capacity: 5000.00 psig
Last Calib.: 2014.12.16
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-30 Minutes-Fair blow built to 10"
ISIP-45 Minutes-No blow back
FFP- 45 Minutes-BOB in 1 minute
FSIP-60 Minutes-No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2160.00	mud	30.30

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+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clark #1

Job Ticket: 61896 **DST#: 1**

Test Start: 2014.12.16 @ 12:25:00

Tool Information

Drill Pipe:	Length:	3193.00 ft	Diameter:	3.80	inches	Volume:	44.79	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
						Total Volume:	44.79	bbl	

Drill Pipe Above KB:	6.00 ft
Depth to Top Packer:	3207.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	37.00 ft
Tool Length:	57.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		1000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		100000.0 lb
Tool Chased		4.00 ft
String Weight:	Initial	58000.00 lb
	Final	68000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3192.00		
Hydraulic tool	5.00			3197.00		
Packer	5.00			3202.00	20.00	Bottom Of Top Packer
Packer	5.00			3207.00		
Anchor	33.00			3240.00		
Recorder	1.00	8400	Inside	3241.00		
Recorder	0.00	6999	Outside	3241.00		
Bullnose	3.00			3244.00	37.00	Bottom Packers & Anchor
Total Tool Length:	**57.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy Inc

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clark #1

Job Ticket: 61896 **DST#: 1**

Test Start: 2014.12.16 @ 12:25:00

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:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4300.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2160.00	mud	30.299

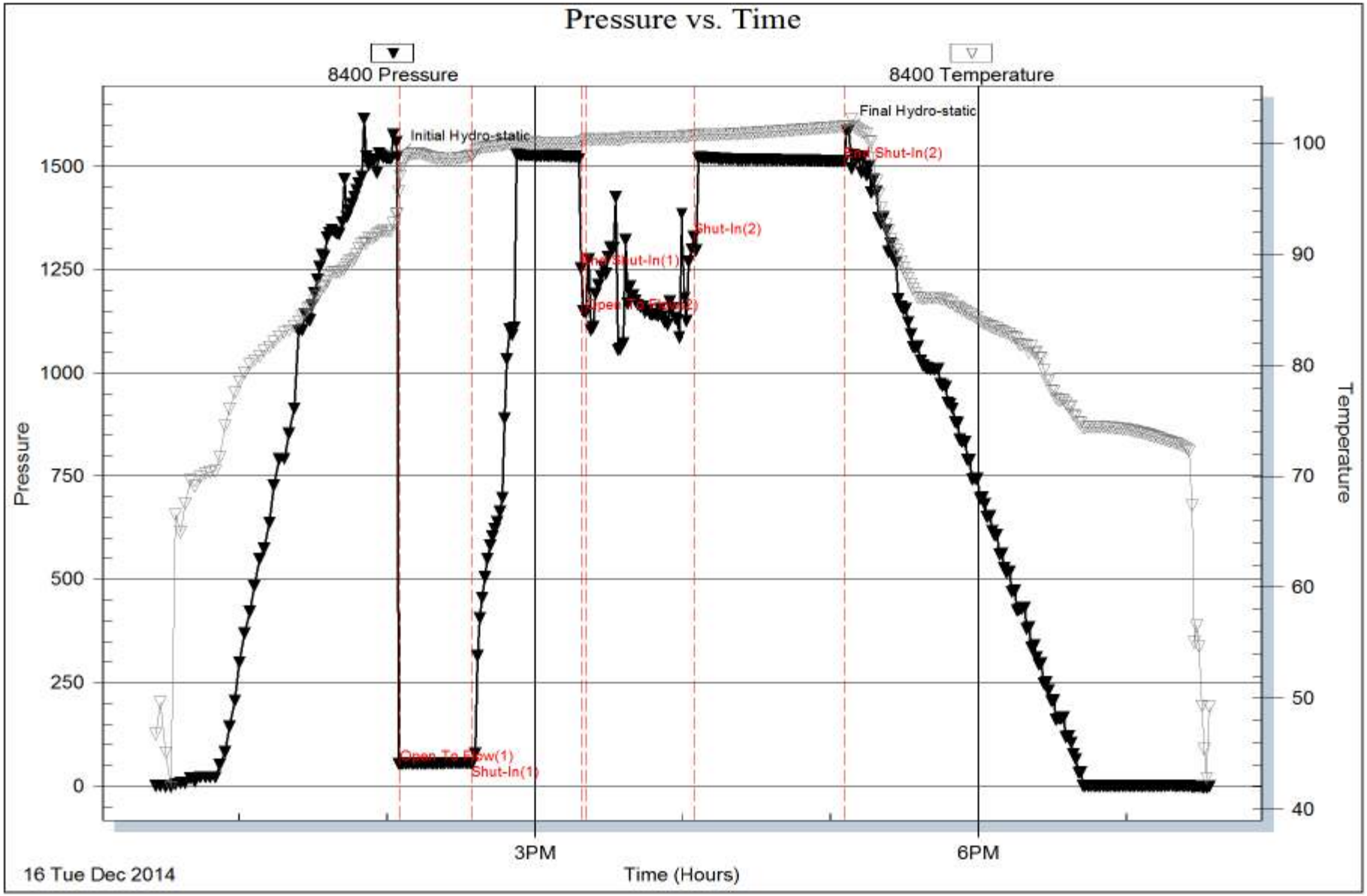
Total Length: 2160.00 ft Total Volume: 30.299 bbl

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

Laboratory Name: Laboratory Location:

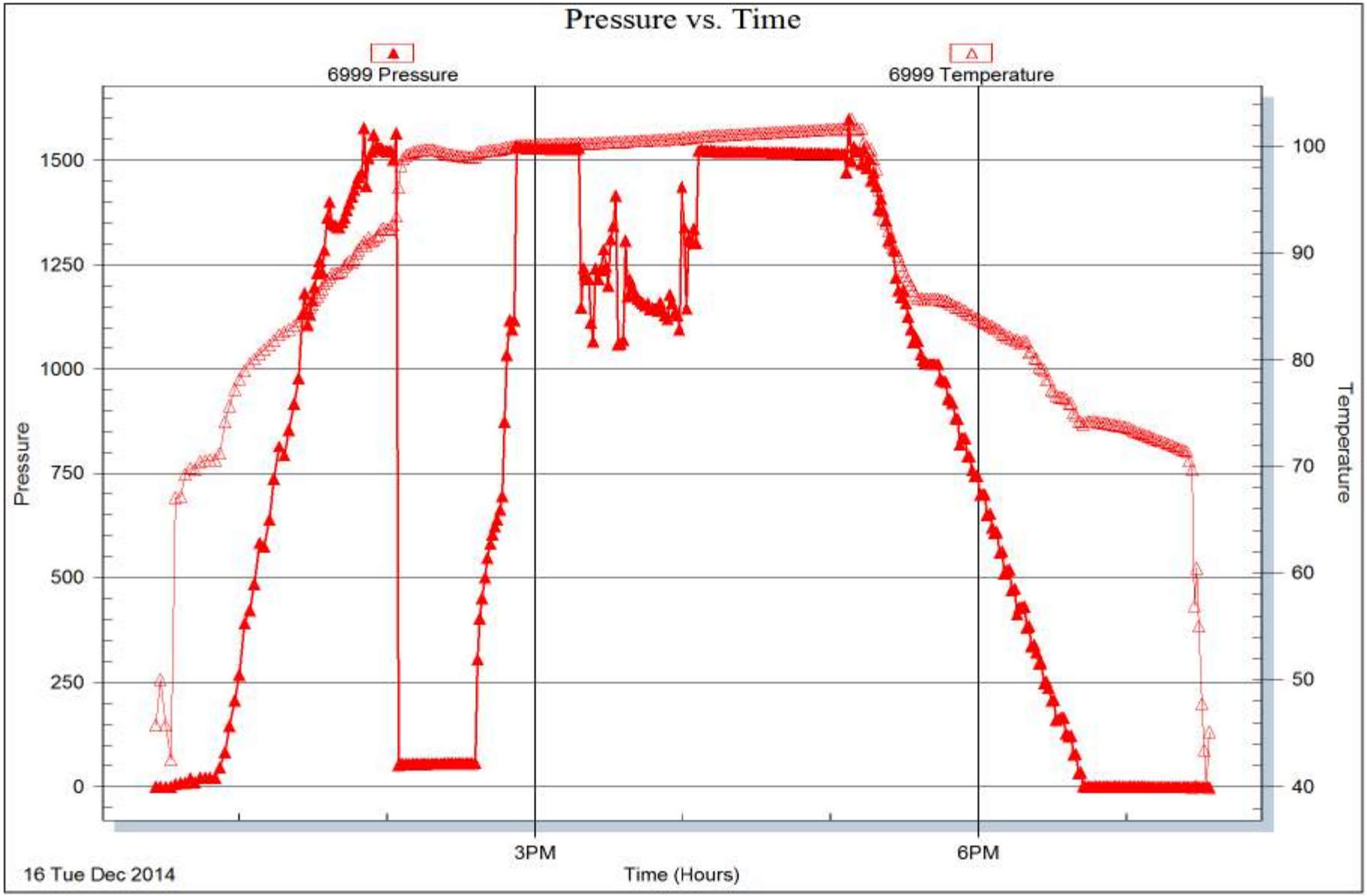
Recovery Comments:

Serial #: 8400 **Inside** Charter Energy Inc Clark #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 61896 Printed: 2014.12.23 @ 10:38:27

Serial #: 6999 **Outside** Charter Energy Inc Clark #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 61896 Printed: 2014.12.23 @ 10:38:27

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc**

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

Clar k#1

23-17s-14w Barton,KS

Start Date: 2014.12.16 @ 16:35:00
End Date: 2014.12.16 @ 22:01:30
Job Ticket #: 61897 DST #: 2

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

Printed: 2014.12.23 @ 10:36:12

DRILL STEM TEST REPORT

Charter Energy Inc

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clar k#1

Job Ticket: 61897 **DST#: 2**

Test Start: 2014.12.16 @ 16:35:00

GENERAL INFORMATION:

Formation: **LKC F-H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:56:00
Time Test Ended: 22:01:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: S5

Interval: 3200.00 ft (KB) To 3305.00 ft (KB) (TVD)
Total Depth: 3305.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

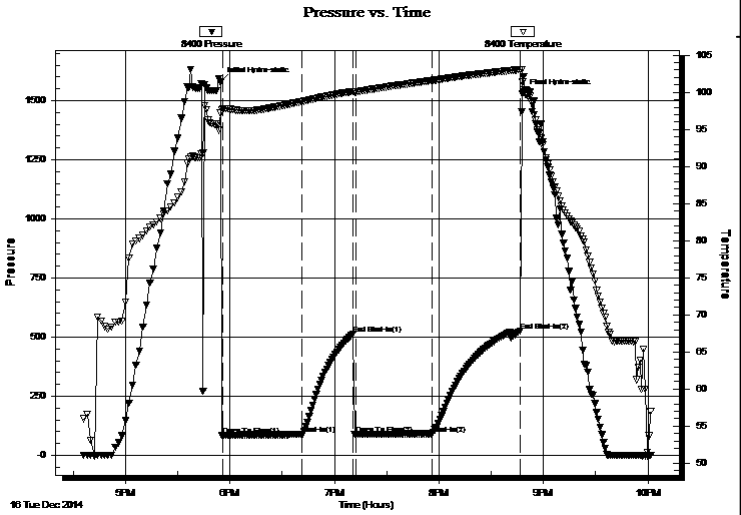
Reference Elevations: 1904.00 ft (KB)
1897.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8400 **Inside**

Press@RunDepth: 90.02 psig @ 3301.00 ft (KB)
Start Date: 2014.12.16 End Date: 2014.12.16
Start Time: 16:36:00 End Time: 22:01:30

Capacity: 5000.00 psig
Last Calib.: 2014.12.16
Time On Btm: 2014.12.16 @ 17:54:30
Time Off Btm: 2014.12.16 @ 20:48:00

TEST COMMENT: IFP-45 Minutes-Weak blow built 2 1/2"
ISIP-30 Minutes-No blow back
FFP-45 Minutes-Very w eak blow built 1/4"
FSIP-45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1578.86	97.18	Initial Hydro-static
2	84.52	97.75	Open To Flow (1)
47	87.76	98.73	Shut-In(1)
76	512.72	100.12	End Shut-In(1)
78	88.93	100.04	Open To Flow (2)
122	90.02	101.58	Shut-In(2)
172	525.53	103.07	End Shut-In(2)
174	1529.00	101.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud	0.84

Gas Rates

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

DRILL STEM TEST REPORT

Charter Energy Inc

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clar k#1

Job Ticket: 61897 **DST#: 2**

Test Start: 2014.12.16 @ 16:35:00

GENERAL INFORMATION:

Formation: **LKC F-H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:56:00
Time Test Ended: 22:01:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: S5

Interval: 3200.00 ft (KB) To 3305.00 ft (KB) (TVD)
Total Depth: 3305.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

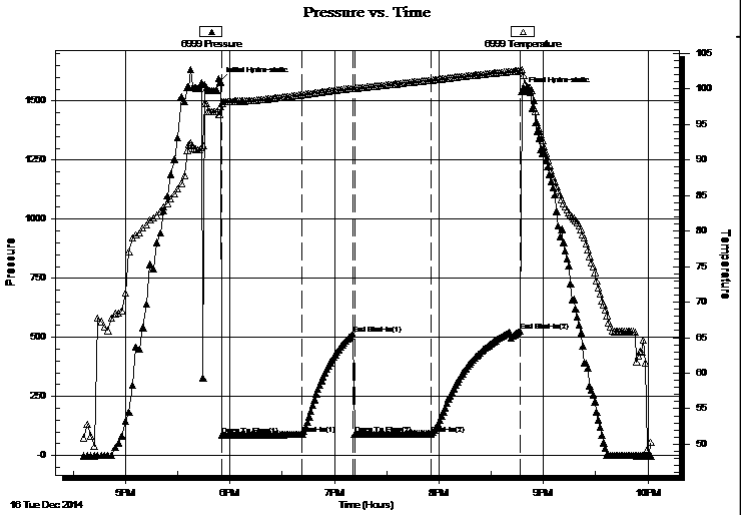
Reference Elevations: 1904.00 ft (KB)
1897.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6999 **Outside**

Press@RunDepth: 526.36 psig @ 3302.00 ft (KB)
Start Date: 2014.12.16 End Date: 2014.12.16
Start Time: 16:36:00 End Time: 22:01:30

Capacity: 5000.00 psig
Last Calib.: 2014.12.16
Time On Btm: 2014.12.16 @ 17:54:00
Time Off Btm: 2014.12.16 @ 20:47:30

TEST COMMENT: IFP-45 Minutes-Weak blow built 2 1/2"
ISIP-30 Minutes-No blow back
FFP-45 Minutes-Very w eak blow built 1/4"
FSIP-45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.26	96.44	Initial Hydro-static
2	85.14	97.96	Open To Flow (1)
48	89.08	99.15	Shut-In(1)
77	513.52	100.09	End Shut-In(1)
78	89.61	100.03	Open To Flow (2)
122	91.68	101.21	Shut-In(2)
173	526.36	102.54	End Shut-In(2)
174	1540.97	102.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud	0.84

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+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clar k#1

Job Ticket: 61897 **DST#: 2**

Test Start: 2014.12.16 @ 16:35:00

Tool Information

Drill Pipe:	Length:	3212.00 ft	Diameter:	3.80	inches	Volume:	45.06	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
						Total Volume:	45.06	bbl	

Drill Pipe Above KB:	32.00 ft
Depth to Top Packer:	3200.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	105.00 ft
Tool Length:	125.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		1000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		100000.0 lb
Tool Chased		3.00 ft
String Weight:	Initial	60000.00 lb
	Final	60000.00 lb

Tool Comments: tool chased 3 feet to bottom had to add another joint

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3185.00		
Hydraulic tool	5.00			3190.00		
Packer	5.00			3195.00	20.00	Bottom Of Top Packer
Packer	5.00			3200.00		
Anchor	4.00			3204.00		
Change Over Sub	0.75			3204.75		
Drill Pipe	63.50			3268.25		
Change Over Sub	0.75			3269.00		
Anchor	31.00			3300.00		
Recorder	1.00	8400	Inside	3301.00		
Recorder	1.00	6999	Outside	3302.00		
Bullnose	3.00			3305.00	105.00	Bottom Packers & Anchor
Total Tool Length:	**125.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy Inc

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clar k#1

Job Ticket: 61897 **DST#: 2**

Test Start: 2014.12.16 @ 16:35:00

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5100.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

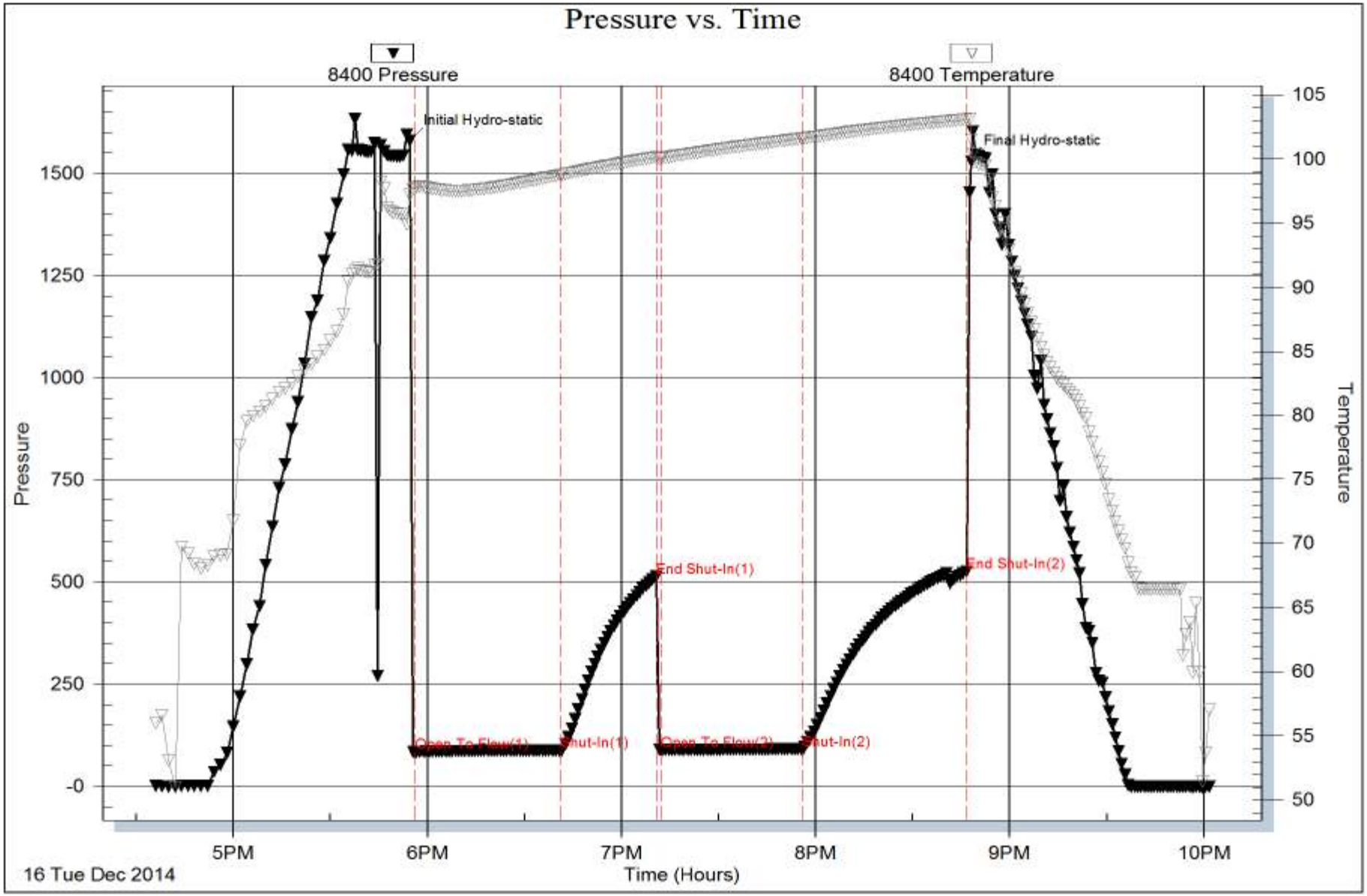
Recovery Table

Length ft	Description	Volume bbl
60.00	mud	0.842

Total Length: 60.00 ft Total Volume: 0.842 bbl

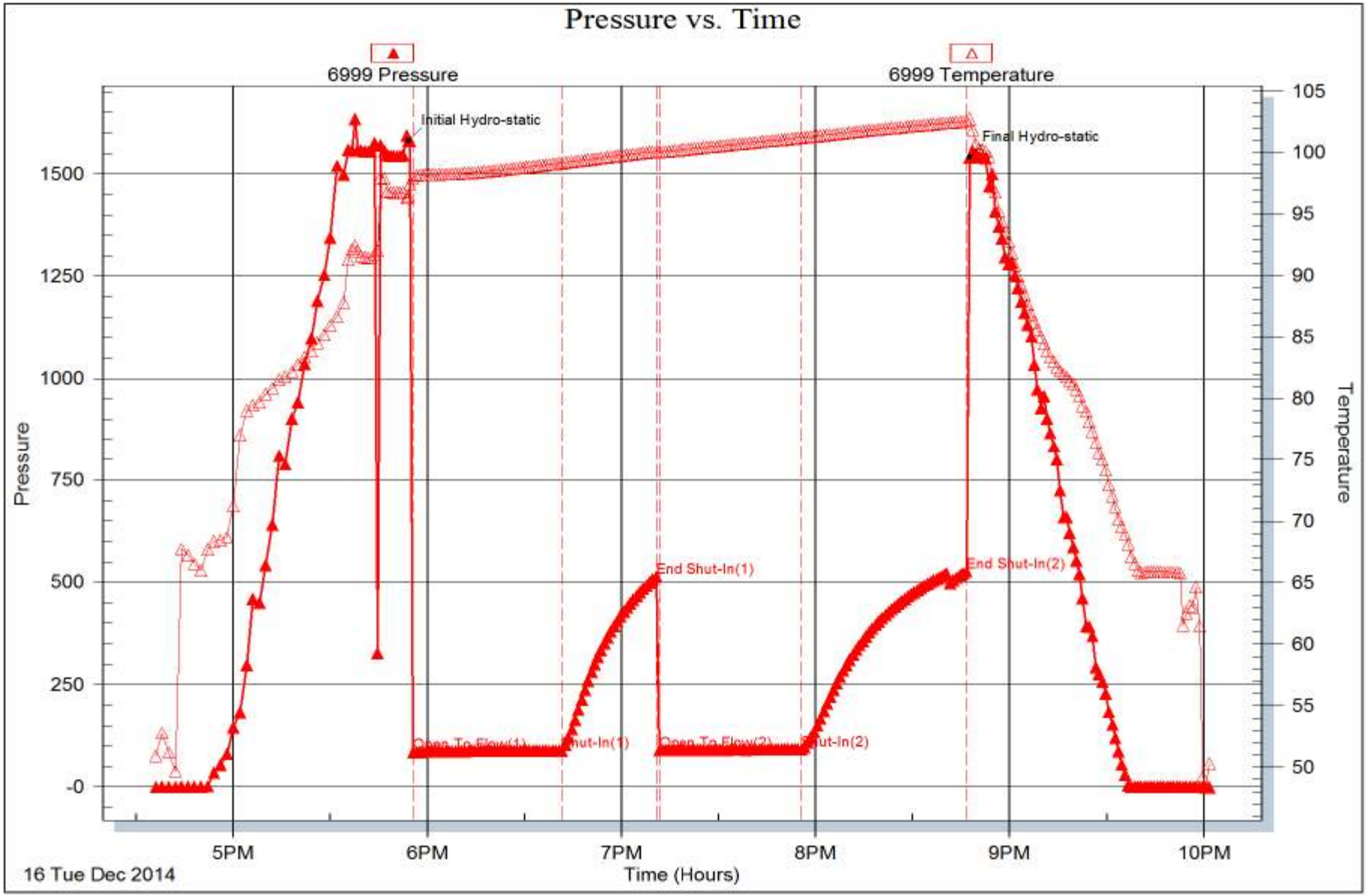
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8400 **Inside** Charter Energy Inc Clar k#1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 61897 Printed: 2014.12.23 @ 10:36:13

Serial #: 6999 **Outside** Charter Energy Inc Clar k#1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 61897 Printed: 2014.12.23 @ 10:36:13

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc**

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

Clar k#1

23-17s-14w Barton,KS

Start Date: 2014.12.17 @ 14:00:00
End Date: 2014.12.17 @ 20:13:30
Job Ticket #: 61898 DST #: 3

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

Printed: 2014.12.23 @ 10:29:17

DRILL STEM TEST REPORT

Charter Energy Inc

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clar k#1

Job Ticket: 61898 **DST#: 3**

Test Start: 2014.12.17 @ 14:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:15:00
Time Test Ended: 20:13:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: S5

Interval: 3354.00 ft (KB) To 3402.00 ft (KB) (TVD)
Total Depth: 3402.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

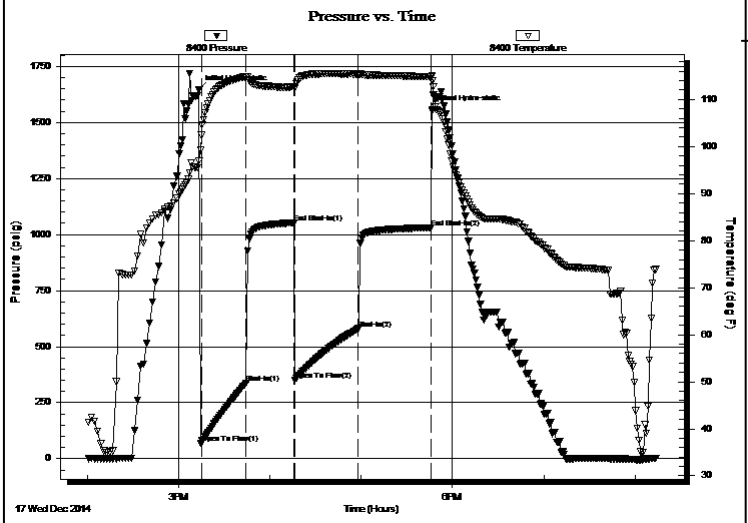
Reference Elevations: 1904.00 ft (KB)
1897.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8400 **Inside**

Press@RunDepth: 580.26 psig @ 3398.00 ft (KB)
Start Date: 2014.12.17 End Date: 2014.12.17
Start Time: 14:01:00 End Time: 20:13:30

Capacity: 5000.00 psig
Last Calib.: 2014.12.17
Time On Btm: 2014.12.17 @ 15:13:30
Time Off Btm: 2014.12.17 @ 17:47:00

TEST COMMENT: IFP-30 Minutes BOB in 3 minutes
ISIP-30 Minutes-Weak blow back
FFP-45 Minutes-BOB in 3 minutes
FSIP- 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1645.14	96.94	Initial Hydro-static
2	67.73	102.45	Open To Flow (1)
31	337.22	114.86	Shut-In(1)
62	1050.14	112.68	End Shut-In(1)
63	351.84	112.41	Open To Flow (2)
105	580.26	115.31	Shut-In(2)
153	1030.45	114.81	End Shut-In(2)
154	1557.99	114.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1500.00	CGO 10%gas 90%oil	21.04

Gas Rates

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

DRILL STEM TEST REPORT

Charter Energy Inc

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clar k#1

Job Ticket: 61898 **DST#: 3**

Test Start: 2014.12.17 @ 14:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:15:00
Time Test Ended: 20:13:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: S5

Interval: 3354.00 ft (KB) To 3402.00 ft (KB) (TVD)
Total Depth: 3402.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

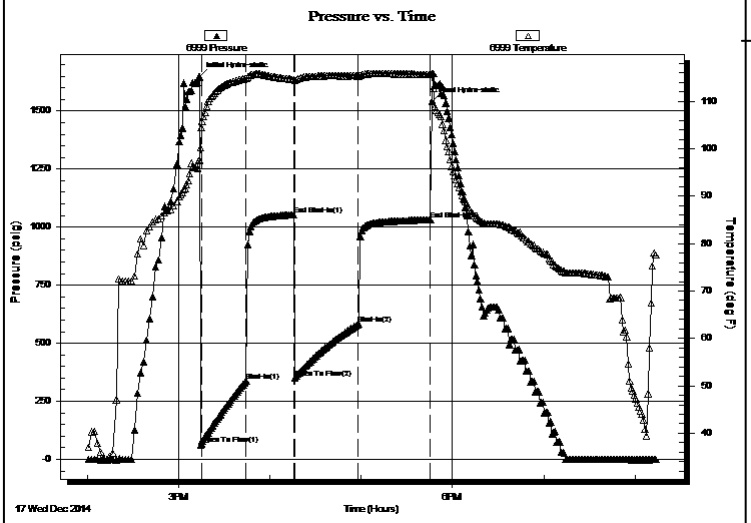
Reference Elevations: 1904.00 ft (KB)
1897.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6999 **Outside**

Press@RunDepth: 1032.02 psig @ 3399.00 ft (KB)
Start Date: 2014.12.17 End Date: 2014.12.17
Start Time: 14:01:00 End Time: 20:13:30

Capacity: 5000.00 psig
Last Calib.: 2014.12.17
Time On Btm: 2014.12.17 @ 15:14:00
Time Off Btm: 2014.12.17 @ 17:46:30

TEST COMMENT: IFP-30 Minutes BOB in 3 minutes
ISIP-30 Minutes-Weak blow back
FFP-45 Minutes-BOB in 3 minutes
FSIP- 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.82	97.65	Initial Hydro-static
1	66.41	104.43	Open To Flow (1)
31	337.29	114.78	Shut-In(1)
62	1053.33	114.60	End Shut-In(1)
63	351.32	114.30	Open To Flow (2)
104	581.03	115.33	Shut-In(2)
152	1032.02	115.68	End Shut-In(2)
153	1541.25	115.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1500.00	CGO 10%gas 90%oil	21.04

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+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clar k#1

Job Ticket: 61898 **DST#: 3**

Test Start: 2014.12.17 @ 14:00:00

Tool Information

Drill Pipe:	Length:	3343.00 ft	Diameter:	3.80	inches	Volume:	46.89	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
						Total Volume:	46.89	bbl	

Drill Pipe Above KB:	9.00 ft
Depth to Top Packer:	3354.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	48.00 ft
Tool Length:	68.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		1000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		80000.00 lb
Tool Chased		3.00 ft
String Weight:	Initial	60000.00 lb
	Final	67000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3339.00		
Hydraulic tool	5.00			3344.00		
Packer	5.00			3349.00	20.00	Bottom Of Top Packer
Packer	5.00			3354.00		
Anchor	43.00			3397.00		
Recorder	1.00	8400	Inside	3398.00		
Recorder	1.00	6999	Outside	3399.00		
Bullnose	3.00			3402.00	48.00	Bottom Packers & Anchor
Total Tool Length:	**68.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy Inc

PO Box 252
Great Bend KS 67530+0252

ATTN: Kurt Talbott

23-17s-14w Barton,KS

Clar k#1

Job Ticket: 61898 **DST#: 3**

Test Start: 2014.12.17 @ 14:00:00

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:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1500.00	CGO 10%gas 90%oil	21.041

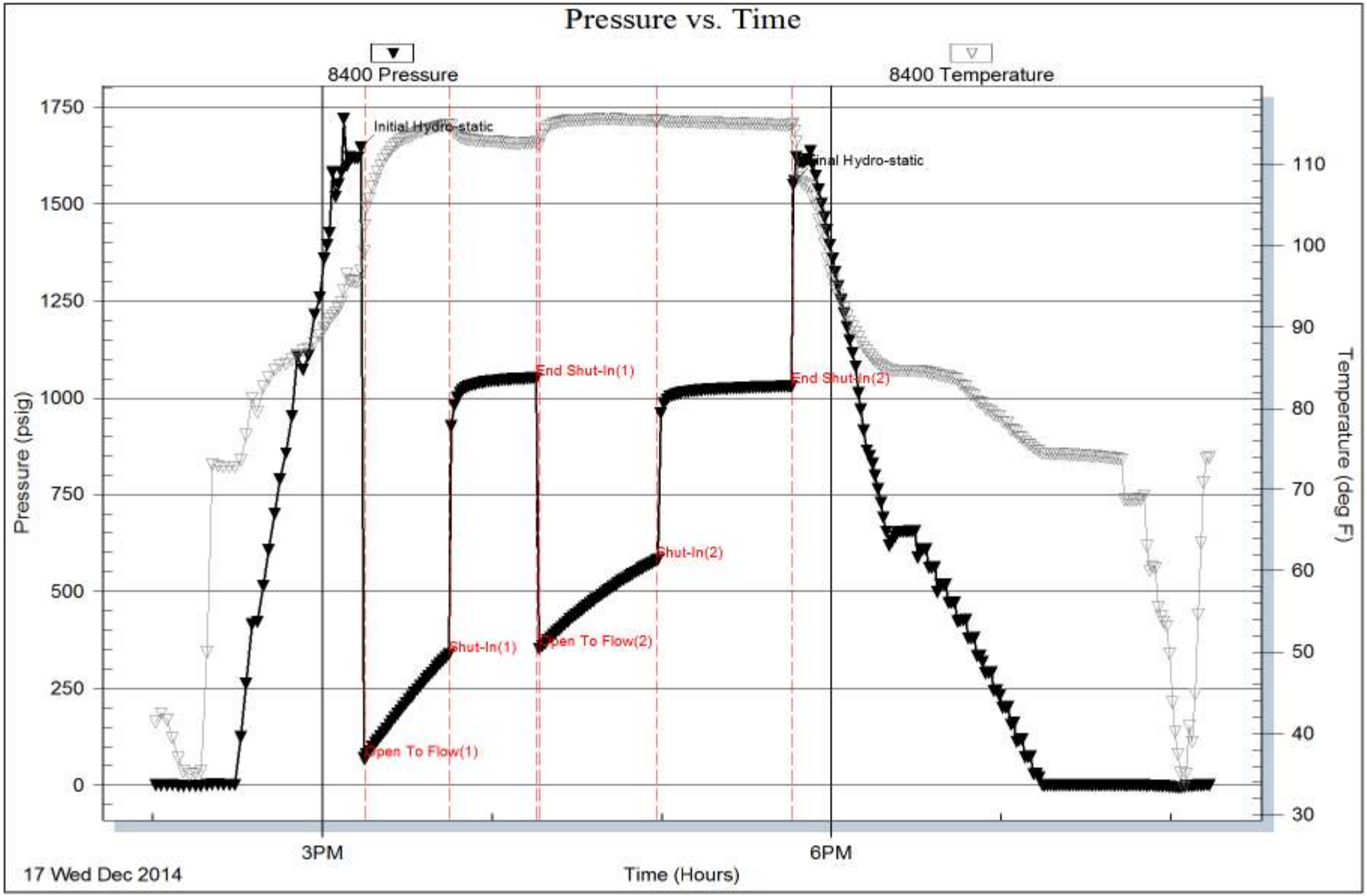
Total Length: 1500.00 ft Total Volume: 21.041 bbl

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

Laboratory Name: Laboratory Location:

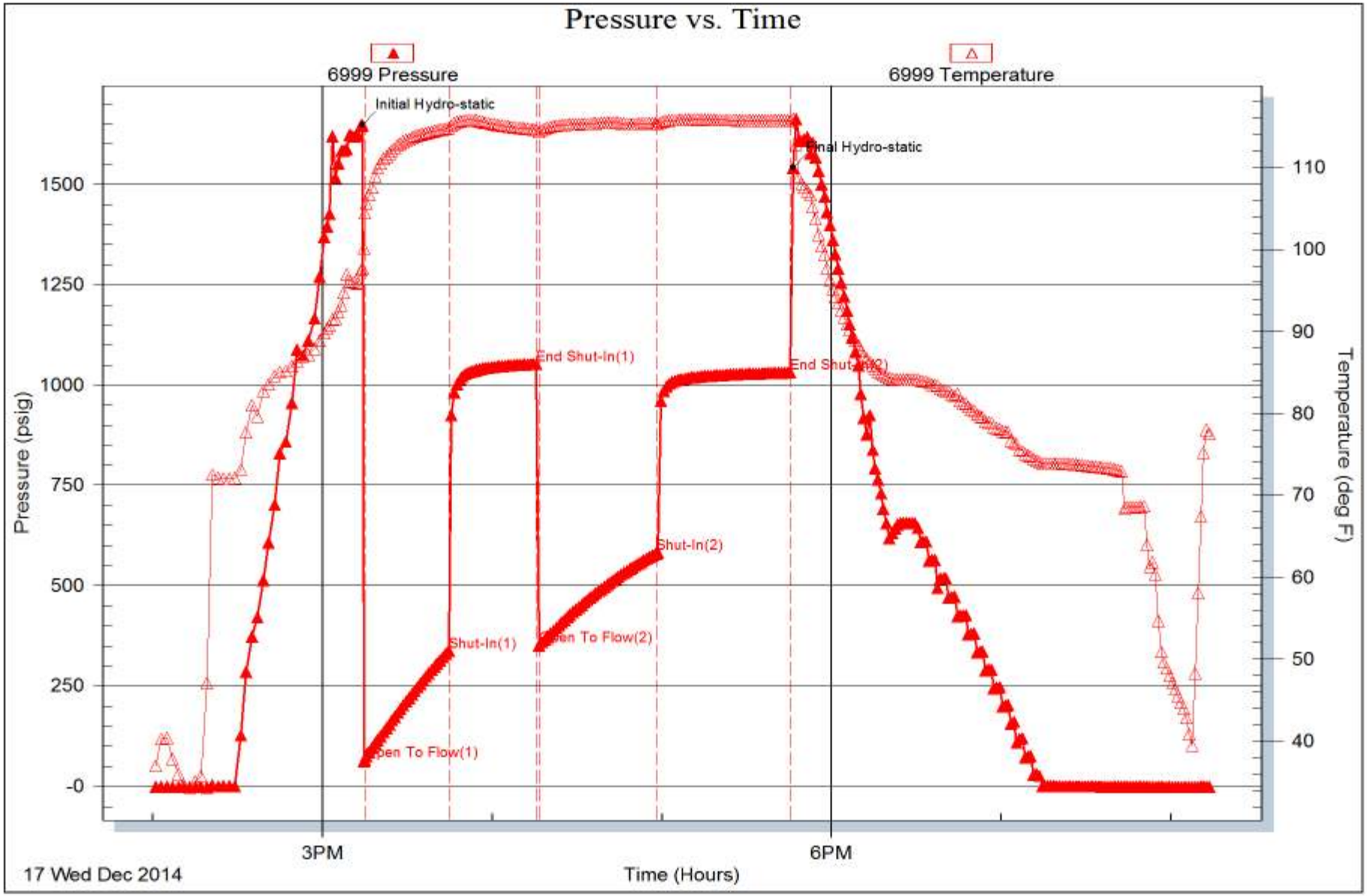
Recovery Comments: Gravity oil 45

Serial #: 8400 **Inside** Charter Energy Inc Clar k#1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 61898 Printed: 2014.12.23 @ 10:29:18

Serial #: 6999 **Outside** Charter Energy Inc Clar k#1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 61898 Printed: 2014.12.23 @ 10:29:18

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 61898

Well Name & No. Clark #1 Test No. 3 Date 12-17-2014

Company Charter Energy Inc Elevation 1904 KB 1897 GL

Address PO Box 252 Great Bend KS 67530 + 0252

Co. Rep / Geo. Kurt Rig Royal Drilling Rig #2

Location: Sec. 23 Twp. 17S Rge. 14W Co. Barton State KS

Interval Tested 3354-3402 Zone Tested Arbuckle

Anchor Length 48 Drill Pipe Run _____ Mud Wt. 9.1

Top Packer Depth 3349 Drill Collars Run _____ Vis 45

Bottom Packer Depth 3354 Wt. Pipe Run _____ WL 8.4

Total Depth 3402 Chlorides Lx 800 ppm System LCM Tr

Blow Description IFP- Strong Blow Built Bottom Bucket in 3 minutes
ISIP- Weak Blow Back
FFP- Strong Blow Built Bottom Bucket in 3 minutes
FSIP- NO Blow Back

Rec 1500	Feet of Gas oil	10 %gas	90 %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 _____ BHT _____ Gravity 45 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	1645	☒ Test	1150	T-On Location	1:45
(B) First Initial Flow	67	☐ Jars		T-Started	2:00
(C) First Final Flow	337	☐ Safety Joint		T-Open	3:18
(D) Initial Shut-In	1050	☐ Circ Sub		T-Pulled	5:48
(E) Second Initial Flow	351	☐ Hourly Standby		T-Out	8:13
(F) Second Final Flow	580	☒ Mileage	35 @ Great Bend 54.25	Comments	
(G) Final Shut-In	1030	☐ Sampler			
(H) Final Hydrostatic	1557	☐ 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	1204.25
Final Shut-In	45	☐ Accessibility		MP/DST Disc't	
		Sub Total	1204.25		

Approved By _____ Our Representative _____

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 61897

Well Name & No. Clark #1 Test No. 2 Date 12-16-2014

Company Charter Energy Inc Elevation 1909 KB 1897 GL

Address PO Box 252 Great Bend KS 67530 + 0252

Co. Rep / Geo. Kurt Rig Royal Drilling Rig #2

Location: Sec. 23 Twp. 17S Rge. 14W Co. Barton State KS

Interval Tested 3200-3305 Zone Tested Lansing F.G.H

Anchor Length 105 Drill Pipe Run Mud Wt. 9.2

Top Packer Depth 3195 Drill Collars Run Vis 53

Bottom Packer Depth 3200 Wt. Pipe Run WL 7.2

Total Depth 3305 Chlorides 5100 ppm System LCM T.

Blow Description IFP- Weak Blow Built 2½ inches into Bucket in

ISIP- NO Blow Back

FFP- Very Weak Surface Blow Built ¼ inch into Bucket

FSIP- NO Blow Back

Rec 60	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 ____ BHT ____ Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 1578	☒ Test 1150	T-On Location 4:25	
(B) First Initial Flow 84	☐ Jars	T-Started 4:35	
(C) First Final Flow 87	☐ Safety Joint	T-Open 5:52	
(D) Initial Shut-In 512	☐ Circ Sub	T-Pulled 8:37	
(E) Second Initial Flow 88	☐ Hourly Standby	T-Out	
(F) Second Final Flow 90	☒ Mileage 35 Great Bend 54.25	Comments	
(G) Final Shut-In 525	☐ Sampler		
(H) Final Hydrostatic 1529	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☒ Ruined Packer 320	
Initial Open 45	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total 320	
Final Flow 45	☐ Day Standby	Total 1524.25	
Final Shut-In 45	☐ Accessibility	MP/DST Disc't	
	Sub Total 1204.25		

Approved By ____ Our Representative ____

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 61896

Well Name & No. Clark #1 Test No. 1 Date 12-16-2014

Company Charter Energy Inc Elevation 1909 KB 1917 GL

Address PO Box 252 Great Bend KS 67530 + 0252

Co. Rep / Geo. Kurt Rig Royal Drilling Rig #2

Location: Sec. 23 Twp. 17S Rge. 14W Co. Barton State KS

Interval Tested 3207 - 3245 Zone Tested Lansing F+G

Anchor Length 38 Drill Pipe Run 3.8 Mud Wt. 8.9

Top Packer Depth 3202 Drill Collars Run 2 Vis 48

Bottom Packer Depth 3207 Wt. Pipe Run > WL 7.6

Total Depth 3245 Chlorides 4,300 ppm System LCM

Blow Description IFP - Fair Blow Built 10 inches into Bucket in 30 minutes Tool chased 4 feet

ISIP - No Blow Back

FFP - Strong Blow Built Bottom of Bucket in 1 minute

FSIP - No Blow Back

Rec 2160	Feet of MW	%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 BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1523	☒ Test 950	T-On Location 10:45 pm
(B) First Initial Flow 53	☐ Jars	T-Started 12:25 am
(C) First Final Flow 55	☐ Safety Joint	T-Open 2:02 AM
(D) Initial Shut-In 1253	☐ Circ Sub	T-Pulled 5:02 AM
(E) Second Initial Flow 1146	☐ Hourly Standby	T-Out 9 30
(F) Second Final Flow 1330	☒ Mileage 35 miles RT Great Bend 54.25	Comments Tool chased 4 feet to Bottom
(G) Final Shut-In 1513	☐ Sampler	
(H) Final Hydrostatic 1584	☐ Straddle	
	☐ Shale Packer	☐ Ruined Shale Packer
Initial Open 30	☐ Extra Packer	☐ Ruined Packer
Initial Shut-In 45	☐ Extra Recorder	☐ Extra Copies
Final Flow 45	☐ Day Standby	Sub Total 0
Final Shut-In 60	☐ Accessibility	Total 1004.25
	Sub Total 1004.25	MP/DST Disc't

Approved By Our Representative