Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1249122

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 #:

01/06/2015	01/12/2015	02/23/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23922-00-00
Spot Description:
NW SE SW NE Sec. 36 Twp. 22 S. R. 14 ☐ East ☑ West
1984 Feet from ☑ North / ☐ South Line of Section
1864 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: Gleason Well #: 1
Field Name:
Producing Formation: Viola
Elevation: Ground: 1918 Kelly Bushing: 1925
Total Vertical Depth: 3908 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 477 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: 600 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Bob's Hauling Service
Lease Name: Siefkes B 2 License #: 33779
Quarter NW Sec. 13 Twp. 22 S. R. 12 ☐ East ☑ West
County: Stafford Permit #: D22209.0

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:** NAOMI JAMES **Date:** 04/10/2015

1249122

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

Sec. 36 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
MEL

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

Name	Top	Datum
Heebner	3308	-1383
Lansing	3455	-1530
Viola	3746	-1821
Arbuckle	3825	-1900

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
Conductor	17.5	13.375	32	40	60/40	140	3% cc 2% gel
Surface	12.25	8.625	23	477	60/40	500	3% cc 2% gel
Production	7.875	5.5	15.5	3903	EA-2	145	n/a

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
Cell 785-324-1041

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

No. 1111

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-5-15	36	22	14	Stafford	KS	10:00PM	~~PM~~

Location 281 & K19 - 3W to 30 Rd, 45 to 10 Rd

Lease	Gleason	Well No.	1
Contractor	Royal 1		
Type Job	Conductor		
Hole Size	17½"	T.D.	~~430~~ 43'
Csg.	13⅜"	Depth	40'
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	15'	Shoe Joint	15'
Meas Line		Displace	3¾ BLS

EQUIPMENT

Pumptrk 16	No.	Cementer Helper	Billy
Bulktrk 13	No.	Driver Driver	Doug
~~Bulktrk~~ P.U.	No.	Driver Driver	Rick

JOB SERVICES & REMARKS

Remarks:

Rat Hole mix 100 sx Cement

Mouse Hole

Centralizers Cement did Circulate

Baskets

D/V or Port Collar Filled Void on Backside of Collar with 40 sx Cement

Owner 1/4 S w/Intto

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.

Charge To Charter Energy

Street

City State

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

Cement Amount Ordered 300 60/40 3%cc 2%Gel ½# Flo-seal

Common	85
Poz. Mix	55
Gel.	3
Calcium	4
Hulls	
Salt	
Flowseal	70#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	300
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Conductor Surface
Mileage	22
Tax	
Discount	
Total Charge	

X Signature Doug Berg

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. 1113

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-6-15	36	22	14	Stafford	KS		6:45 PM

Location 281 + K19 - 3W to 30Rd, 4 1/4S W Into

Lease	Gleason	Well No.	1
Contractor	Royal 1		
Type Job	Surface		
Hole Size	12 1/4"	T.D.	477'
Csg.	8 5/8"	Depth	477'
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	15'	Shoe Joint	15'
Meas Line		Displace	29 1/4 Bbls

EQUIPMENT

Pumptrk 17	No.	Cementer	
		Helper	Billy #15 Doug
Bulktrk 13	No.	Driver	
		Driver	Chad
~~Bulktrk~~ P.U.	No.	Driver	
		Driver	Rick

JOB SERVICES & REMARKS

Remarks: Cement did NOT Circulate

Rat Hole

Mouse Hole

Centralizers pumped 200 sx 80/20 4% cc 2% Gel 1/2# Flo-seal

Baskets

D/V or Port Collar w/ 200 # Hulls down Backside

Cement did Circulate

Owner

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.

Charge To Charter Energy

Street

City State

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

Cement Amount Ordered 300 60/40 3% cc 2% Gel 1/2 # Flo-seal + 200 80/20 4% cc 2% Gel 1/2 # Flo-seal

Common	340
Poz. Mix	160
Gel.	8
Calcium	19
Hulls	
Salt	
Flowseal	250#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	527
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	22
Tax	
Discount	
Total Charge	

X Signature Doug Bur

SWIFT Services, Inc.

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

TICKET 26981

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays, Ks.	#1	Gleason	Stafford	Ks		1-13-15	Same
2. Ness City, Ks.							
3.							
4.							

TICKET TYPE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.
☑ SERVICE ☐ SALES	Royal Drlg #1		CT	Location	

WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION
oil	Development	Longstring		

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		1			MILEAGE #111	70	mi			6 00	420 00
578		1			Pump Charge (Longstring)	1	ea	3910	'	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	7	ea	5½	"	70 00	490 00
~~418~~											
406		1			4D Plug & Baffle	1	ea			275 00	275 00
407		1			Insert Float Shoe w/fill	1	ea			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 1-13-15 TIME SIGNED 1445 ☐ 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	3819 00
	4752 50
subtotal	8571 50
Stafford TAX 7.15%	404 80
TOTAL	8976 30

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

SWIFT OPERATOR Nick Foster APPROVAL

Thank You!

SWIFT Services, Inc.

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

TICKET CONTINUATION

TICKET No. 26981

CUSTOMER: Charter Energy | WELL: #1 Gleason | DATE: 1-13-15 | 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
325		2				Standard Cement	175	sks			14 50	2537 50
276		2				Flocele	50	#	1/4	#/sk	2 50	125 00
283		2				Salt	900	#	10	%	20	180 00
284		2				Calseal	8	sks	5	%	35 00	280 00
292		2				Halad-322	80	#	1/2	%	8 00	640 00
581		2				SERVICE CHARGE 175 sks	CUBIC FEET				2 00	350 00
583		2				MILEAGE CHARGE TOTAL WEIGHT 18280 LOADED MILES 70	TON MILES		640		1 00	640 00

CONTINUATION TOTAL 4752 50

JOB LOG — **SWIFT Services, Inc.** — DATE 1-13-15 — PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Charter Energy	#1	Gleason	longstring	26981

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0940							on loc w/ FE
								RTD 3910'
								5½" x 15.5# x 3899' x 17'
								Cent 2, 3, 4, 5, 7, 9, 11
	1130							Start FE
	1320							Break circ
	1345	2	7/5					Plug RH ~~MH~~ 30/~~20~~ sks EA-2
	1350	5	0				200	Start 500 gal Mud flush
		5	12/0				200	Start 20 bbl KCL flush
	1353	5	20/0				200	Start 145 sks EA-2 cement
	1400		~~35~~					End Cement
								Wash Pmp
								Drop L.D. Plug
	1409	6	0				200	Start Displacement
	1419	5	62				250	Catch Cement
	1425		92.5				~~700~~ 1400	Land Plug
								Release Pressure
								Float Held
								Thank you
								Nick, Austin, & Prestin

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

Gleason #1

36-22s-14w Stafford,KS

Start Date: 2015.01.10 @ 11:13:00
End Date: 2015.01.10 @ 16:21:30
Job Ticket #: 62109 DST #: 1

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

Printed: 2015.01.15 @ 09:55:02

DRILL STEM TEST REPORT

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62109 **DST#: 1**

Test Start: 2015.01.10 @ 11:13:00

GENERAL INFORMATION:

Formation: **LKC H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:46:00
Time Test Ended: 16:21:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: S2

Interval: 3568.00 ft (KB) To 3595.00 ft (KB) (TVD)
Total Depth: 3595.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

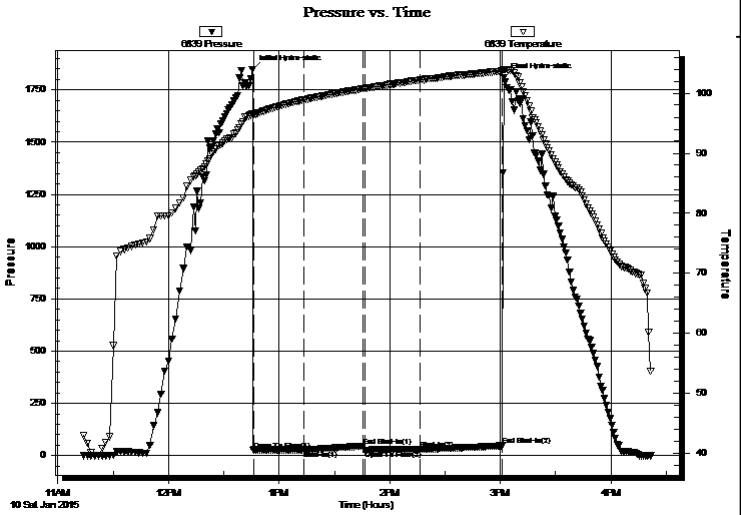
Reference Elevations: 1925.00 ft (KB)
1918.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6839 **Outside**

Press@RunDepth: 29.65 psig @ 3590.00 ft (KB)
Start Date: 2015.01.10 End Date: 2015.01.10
Start Time: 11:14:00 End Time: 16:21:30

Capacity: 5000.00 psig
Last Calib.: 2015.01.10
Time On Btm: 2015.01.10 @ 12:45:30
Time Off Btm: 2015.01.10 @ 15:02:00

TEST COMMENT: IFP 30 min Weak blow built to 1 1/2"
ISI 30 min No blow back
FFP 30 min Weak blow built to 1"
FSI 45 min No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1848.38	96.61	Initial Hydro-static
1	26.54	96.33	Open To Flow (1)
28	27.15	98.89	Shut-In(1)
60	45.88	100.72	End Shut-In(1)
61	25.75	100.76	Open To Flow (2)
91	29.65	102.21	Shut-In(2)
136	47.21	103.68	End Shut-In(2)
137	1807.89	103.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil specked mud 100%Mud	0.21

Gas Rates

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

DRILL STEM TEST REPORT

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62109 **DST#: 1**

Test Start: 2015.01.10 @ 11:13:00

GENERAL INFORMATION:

Formation: **LKC H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:46:00
Time Test Ended: 16:21:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: S2

Interval: 3568.00 ft (KB) To 3595.00 ft (KB) (TVD)
Total Depth: 3595.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

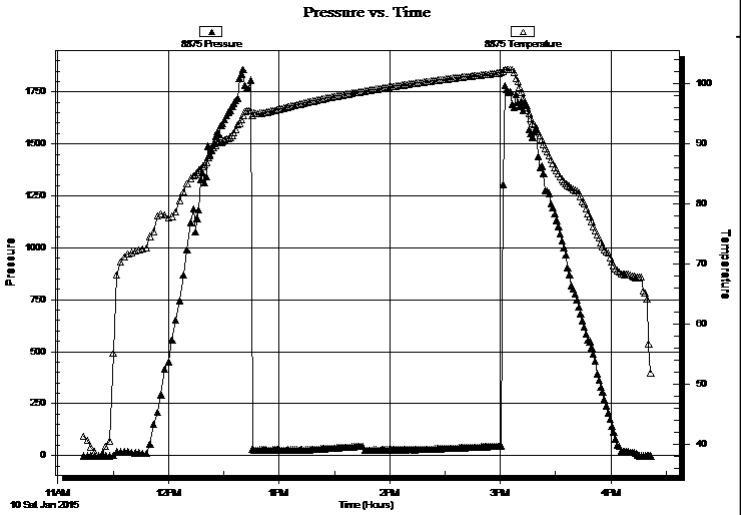
Reference Elevations: 1925.00 ft (KB)
1918.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8875 **Inside**

Press@RunDepth: psig @ 3590.00 ft (KB)
Start Date: 2015.01.10 End Date: 2015.01.10
Start Time: 11:14:00 End Time: 16:21:30

Capacity: 5000.00 psig
Last Calib.: 2015.01.10
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP 30 min Weak blow built to 1 1/2"
ISI 30 min No blow back
FFP 30 min Weak blow built to 1"
FSI 45 min No blow back.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil specked mud 100%Mud	0.21

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62109 **DST#: 1**

Test Start: 2015.01.10 @ 11:13:00

Tool Information

Drill Pipe:	Length:	3577.00 ft	Diameter:	3.80	inches	Volume:	50.18	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:	50.18	bbl	

Drill Pipe Above KB:	29.00 ft
Depth to Top Packer:	3568.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	27.00 ft
Tool Length:	47.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		67000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	46000.00 lb
	Final	46000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3553.00		
Hydraulic tool	5.00			3558.00		
Top Packer	5.00			3563.00		
Packer	5.00			3568.00	20.00	Bottom Of Top Packer
Anchor	22.00			3590.00		
Recorder	0.00	8875	Inside	3590.00		
Recorder	0.00	6839	Outside	3590.00		
Bull Plug	5.00			3595.00	27.00	Anchor Tool
Total Tool Length:	**47.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62109 **DST#: 1**

Test Start: 2015.01.10 @ 11:13:00

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:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6700.00 ppm				
Filter Cake:	inches				

Recovery Information

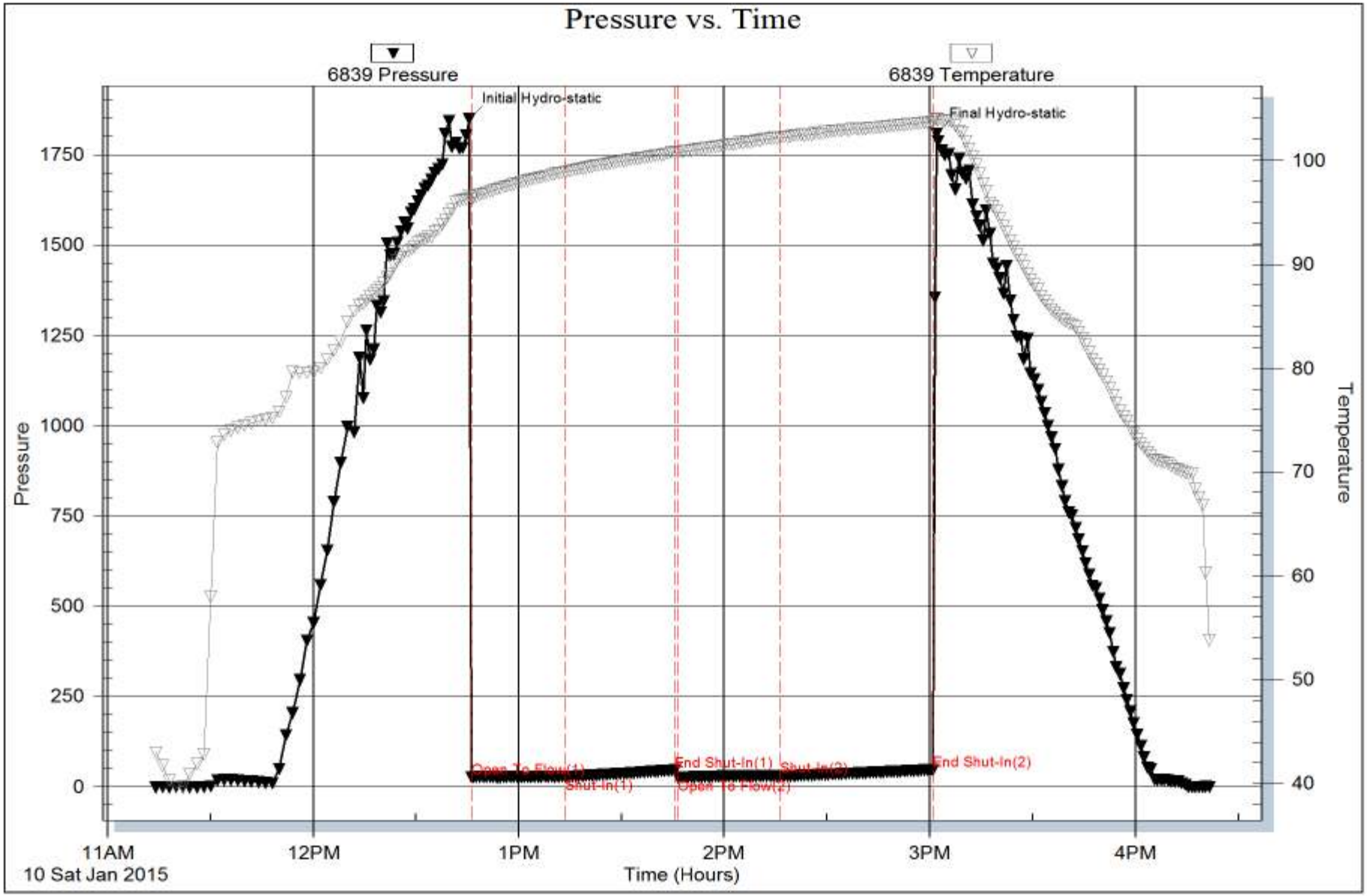
Recovery Table

Length ft	Description	Volume bbl
15.00	Oil specked mud 100%Mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

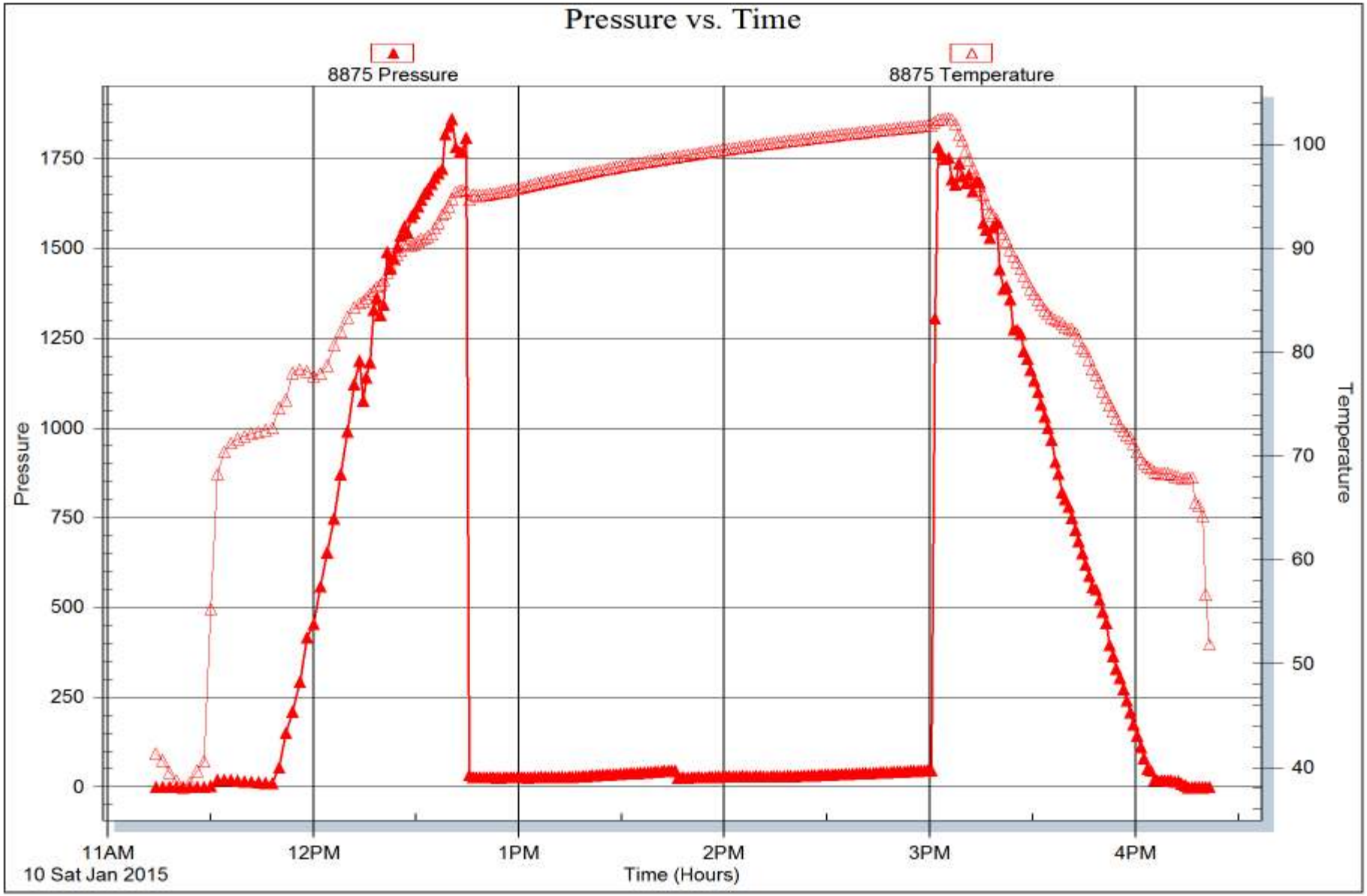
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6839 **Outside** Charter Energy Gleason #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62109 Printed: 2015.01.15 @ 09:55:03

Serial #: 8875 **Inside** Charter Energy Gleason #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62109 Printed: 2015.01.15 @ 09:55:03

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

Gleason #1

36-22s-14w Stafford,KS

Start Date: 2015.01.11 @ 03:07:00
End Date: 2015.01.11 @ 09:36:00
Job Ticket #: 62110 DST #: 2

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

Printed: 2015.01.15 @ 09:54:41

DRILL STEM TEST REPORT

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62110 **DST#: 2**

Test Start: 2015.01.11 @ 03:07:00

GENERAL INFORMATION:

Formation: **LKC "I-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:39:30
Time Test Ended: 09:36:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 59

Interval: 3607.00 ft (KB) To 3690.00 ft (KB) (TVD)
Total Depth: 3690.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

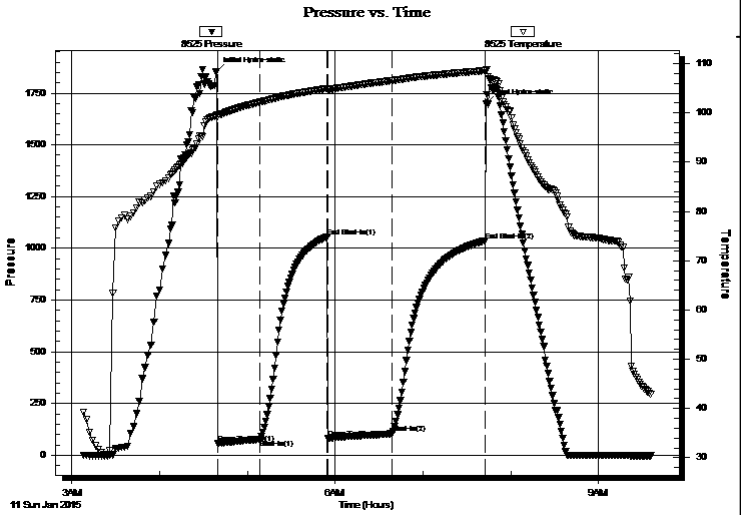
Reference Elevations: 1925.00 ft (KB)
1918.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8525 **Inside**

Press@RunDepth: 105.24 psig @ 3685.10 ft (KB)
Start Date: 2015.01.11 End Date: 2015.01.11
Start Time: 03:08:00 End Time: 09:36:00

Capacity: 5000.00 psig
Last Calib.: 2015.01.11
Time On Btm: 2015.01.11 @ 04:39:00
Time Off Btm: 2015.01.11 @ 07:43:00

TEST COMMENT: IFP 30 min BOB in 7 min.
ISI 45 min No blow back
FFP 45 min BOB in 5 min.
FSI 60 min No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1855.13	99.58	Initial Hydro-static
1	56.68	99.17	Open To Flow (1)
30	77.25	102.18	Shut-In(1)
76	1056.30	104.97	End Shut-In(1)
76	83.23	104.73	Open To Flow (2)
120	105.24	106.55	Shut-In(2)
184	1036.97	108.58	End Shut-In(2)
184	1701.08	108.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM Mud 85% Oil 10% Gas 5%	0.88
67.00	GMCO Oil 50% Mud 40% Gas 10%	0.94
0.00	950 gas in pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62110 **DST#: 2**

Test Start: 2015.01.11 @ 03:07:00

GENERAL INFORMATION:

Formation: **LKC "I-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:39:30
Time Test Ended: 09:36:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 59

Interval: 3607.00 ft (KB) To 3690.00 ft (KB) (TVD)
Total Depth: 3690.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

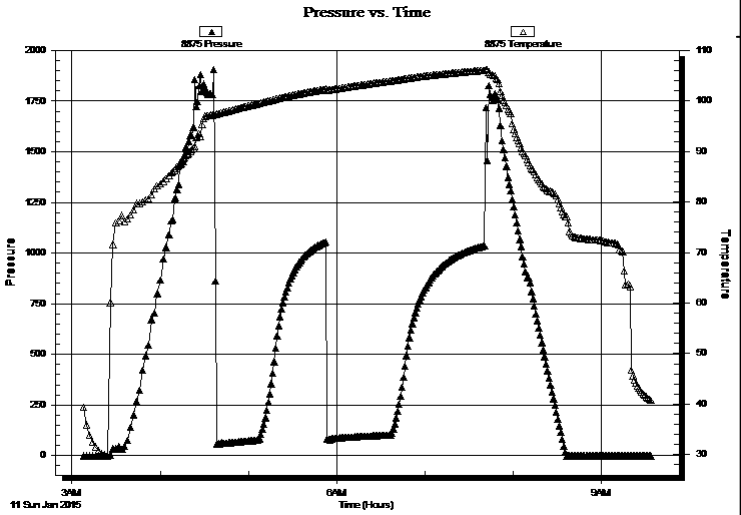
Reference Elevations: 1925.00 ft (KB)
1918.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8875 **Outside**

Press@RunDepth: psig @ 3685.10 ft (KB)
Start Date: 2015.01.11 End Date: 2015.01.11
Start Time: 03:08:00 End Time: 09:34:00

Capacity: 5000.00 psig
Last Calib.: 2015.01.11
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP 30 min BOB in 7 min.
ISI 45 min No blow back
FFP 45 min BOB in 5 min.
FSI 60 min No blow back.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM Mud 85% Oil 10% Gas 5%	0.88
67.00	GMCO Oil 50% Mud 40% Gas 10%	0.94
0.00	950 gas in pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62110 **DST#: 2**

Test Start: 2015.01.11 @ 03:07:00

Tool Information

Drill Pipe:	Length:	3612.00 ft	Diameter:	3.80 inches	Volume:	50.67 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:		20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		67000.00 lb
					Total Volume:	50.67 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight:	Initial	47000.00 lb
Depth to Top Packer:		3607.00 ft						Final	47000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		83.10 ft							
Tool Length:		103.10 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			3592.00		
Hydraulic tool	5.00			3597.00		
Top Packer	5.00			3602.00		
Packer	5.00			3607.00	20.00	Bottom Of Top Packer
Anchor	5.00			3612.00		
Change Over Sub	0.75			3612.75		
Drill Pipe	63.60			3676.35		
Change Over Sub	0.75			3677.10		
Anchor	8.00			3685.10		
Recorder	0.00	8525	Inside	3685.10		
Recorder	0.00	8875	Outside	3685.10		
Bull Plug	5.00			3690.10	83.10	Anchor Tool
Total Tool Length:	**103.10**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62110 **DST#: 2**

Test Start: 2015.01.11 @ 03:07:00

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:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	98.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6700.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

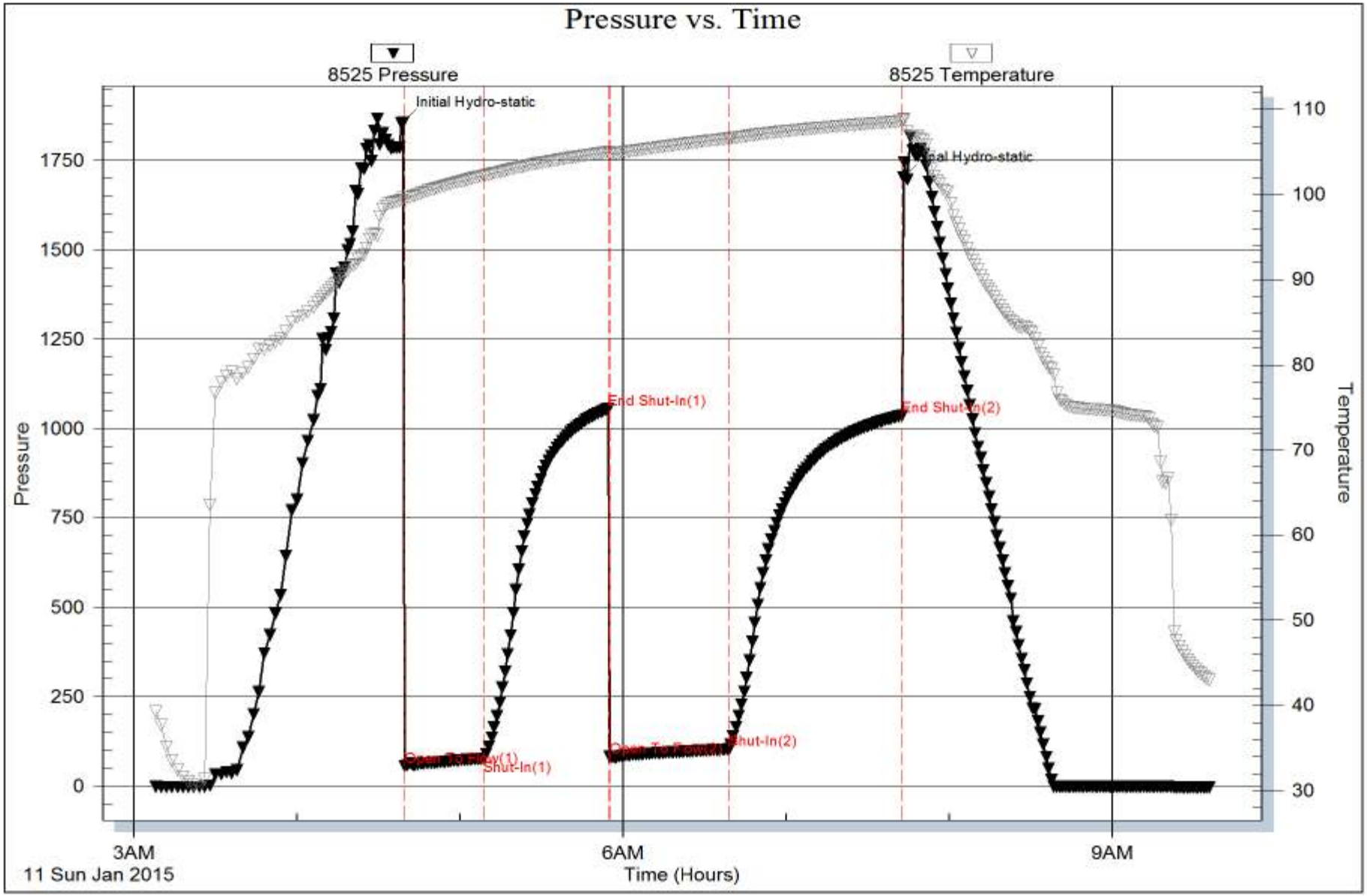
Recovery Table

Length ft	Description	Volume bbl
63.00	GOCM Mud 85% Oil 10% Gas 5%	0.884
67.00	GMCO Oil 50% Mud 40% Gas 10%	0.940
0.00	950 gas in pipe	0.000

Total Length: 130.00 ft Total Volume: 1.824 bbl

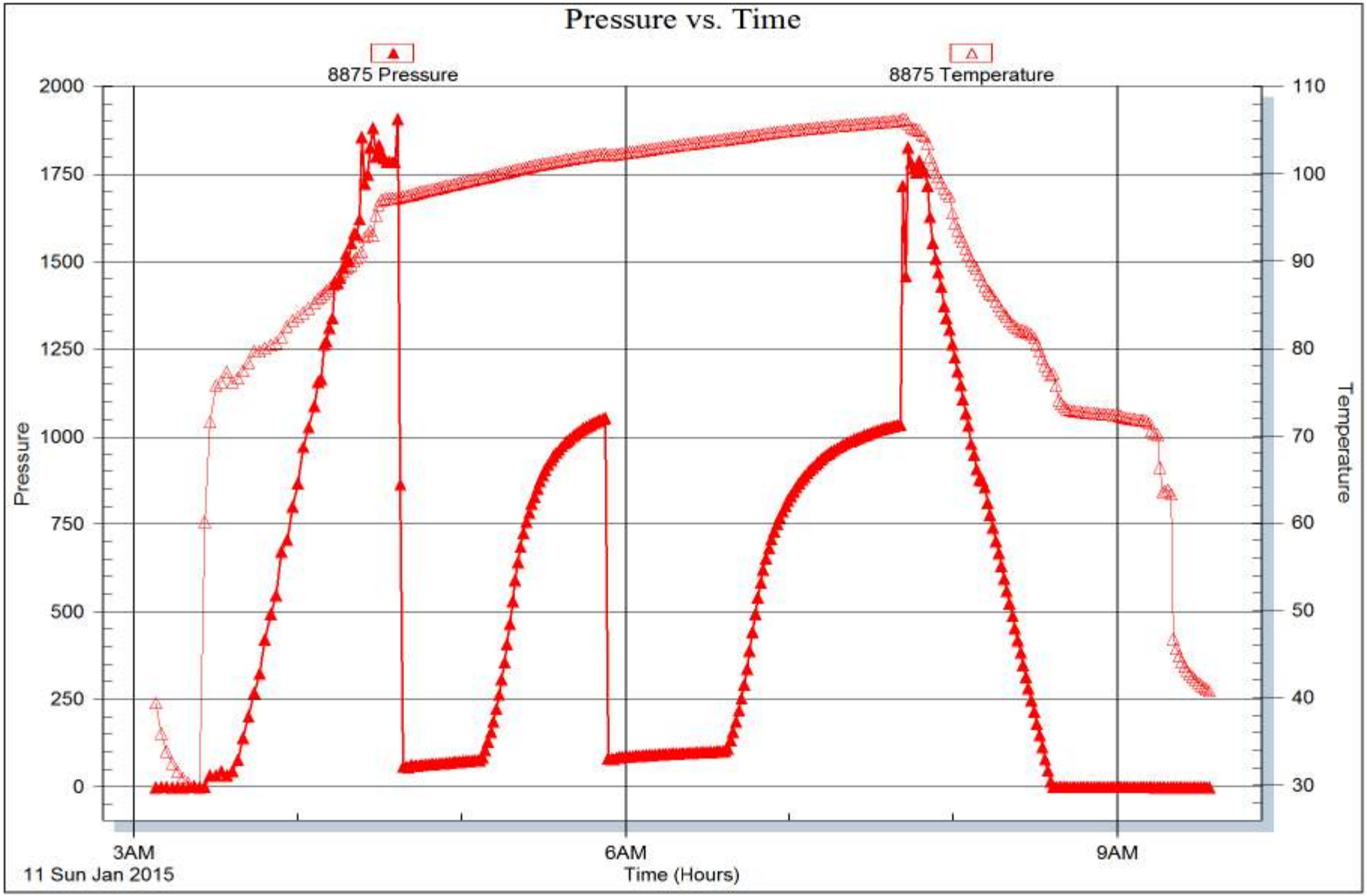
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8525 **Inside** Charter Energy Gleason #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 62110 Printed: 2015.01.15 @ 09:54:43

Serial #: 8875 **Outside** Charter Energy Gleason #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 62110 Printed: 2015.01.15 @ 09:54:43

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

Gleason #1

36-22s-14w Stafford,KS

Start Date: 2015.01.12 @ 12:45:00
End Date: 2015.01.12 @ 18:05:00
Job Ticket #: 62111 DST #: 3

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

Printed: 2015.01.15 @ 09:53:51

DRILL STEM TEST REPORT

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62111 **DST#: 3**

Test Start: 2015.01.12 @ 12:45:00

GENERAL INFORMATION:

Formation: **Simpson - Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:22:00
Time Test Ended: 18:05:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 59

Interval: 3767.00 ft (KB) To 3835.00 ft (KB) (TVD)
Total Depth: 3835.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

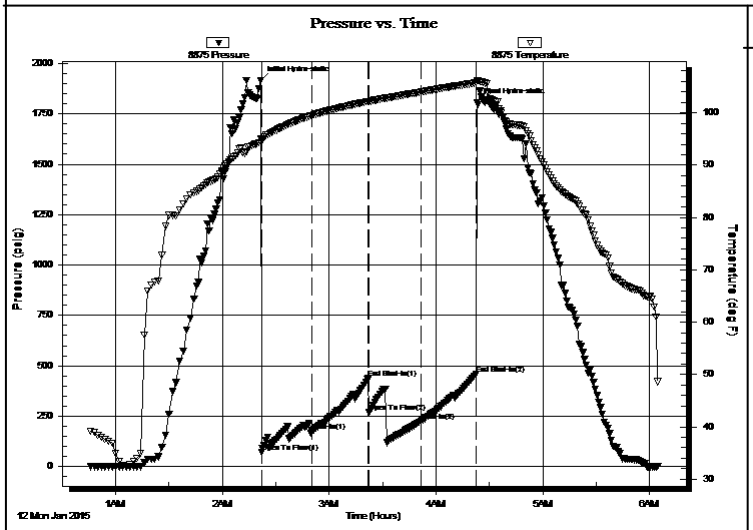
Reference Elevations: 1925.00 ft (KB)
1918.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8875 **Inside**

Press@RunDepth: 225.25 psig @ 3830.30 ft (KB)
Start Date: 2015.01.12 End Date: 2015.01.12
Start Time: 00:46:00 End Time: 06:05:00

Capacity: 5000.00 psig
Last Calib.: 2015.01.12
Time On Btm: 2015.01.12 @ 02:21:30
Time Off Btm: 2015.01.12 @ 04:23:00

TEST COMMENT: IFP 30 min Weak building blow built to 2"
ISI 30 min No blow back
FFP 30 min Dead Flushed tool- built to 1"
FSI 30 min No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1913.67	94.99	Initial Hydro-static
1	71.08	94.68	Open To Flow (1)
29	174.25	99.51	Shut-In(1)
61	437.69	102.18	End Shut-In(1)
61	270.65	102.18	Open To Flow (2)
90	225.25	103.97	Shut-In(2)
121	460.12	105.73	End Shut-In(2)
122	1805.90	106.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.21

Gas Rates

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

DRILL STEM TEST REPORT

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62111 **DST#: 3**

Test Start: 2015.01.12 @ 12:45:00

GENERAL INFORMATION:

Formation: **Simpson - Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:22:00
Time Test Ended: 18:05:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 59

Interval: 3767.00 ft (KB) To 3835.00 ft (KB) (TVD)
Total Depth: 3835.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

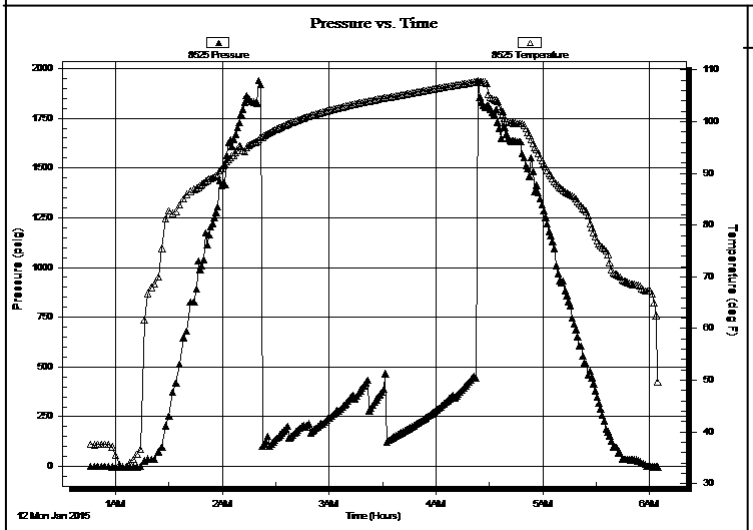
Reference Elevations: 1925.00 ft (KB)
1918.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8525 **Inside**

Press@RunDepth: psig @ 3830.30 ft (KB)
Start Date: 2015.01.12 End Date: 2015.01.12
Start Time: 00:46:00 End Time: 06:05:00

Capacity: 5000.00 psig
Last Calib.: 2015.01.12
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP 30 min Weak building blow built to 2"
ISI 30 min No blow back
FFP 30 min Dead Flushed tool- built to 1"
FSI 30 min No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.21

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62111 **DST#: 3**

Test Start: 2015.01.12 @ 12:45:00

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:		20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		62000.00 lb
					Total Volume:	52.88 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		23.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3767.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		68.30 ft							
Tool Length:		88.30 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			3752.00		
Hydraulic tool	5.00			3757.00		
Top Packer	5.00			3762.00		
Packer	5.00			3767.00	20.00	Bottom Of Top Packer
Anchor	10.00			3777.00		
Change Over Sub	0.75			3777.75		
Drill Pipe	31.80			3809.55		
Change Over Sub	0.75			3810.30		
Anchor	20.00			3830.30		
Recorder	0.00	8875	Inside	3830.30		
Recorder	0.00	6839	Outside	3830.30		
Bull Plug	5.00			3835.30	68.30	Anchor Tool
Total Tool Length:	**88.30**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

PO Box 252
Great Bend, KS 67530

ATTN: Kurt Talbolt

36-22s-14w Stafford,KS

Gleason #1

Job Ticket: 62111 **DST#: 3**

Test Start: 2015.01.12 @ 12:45:00

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:	16.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	16000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%	0.210

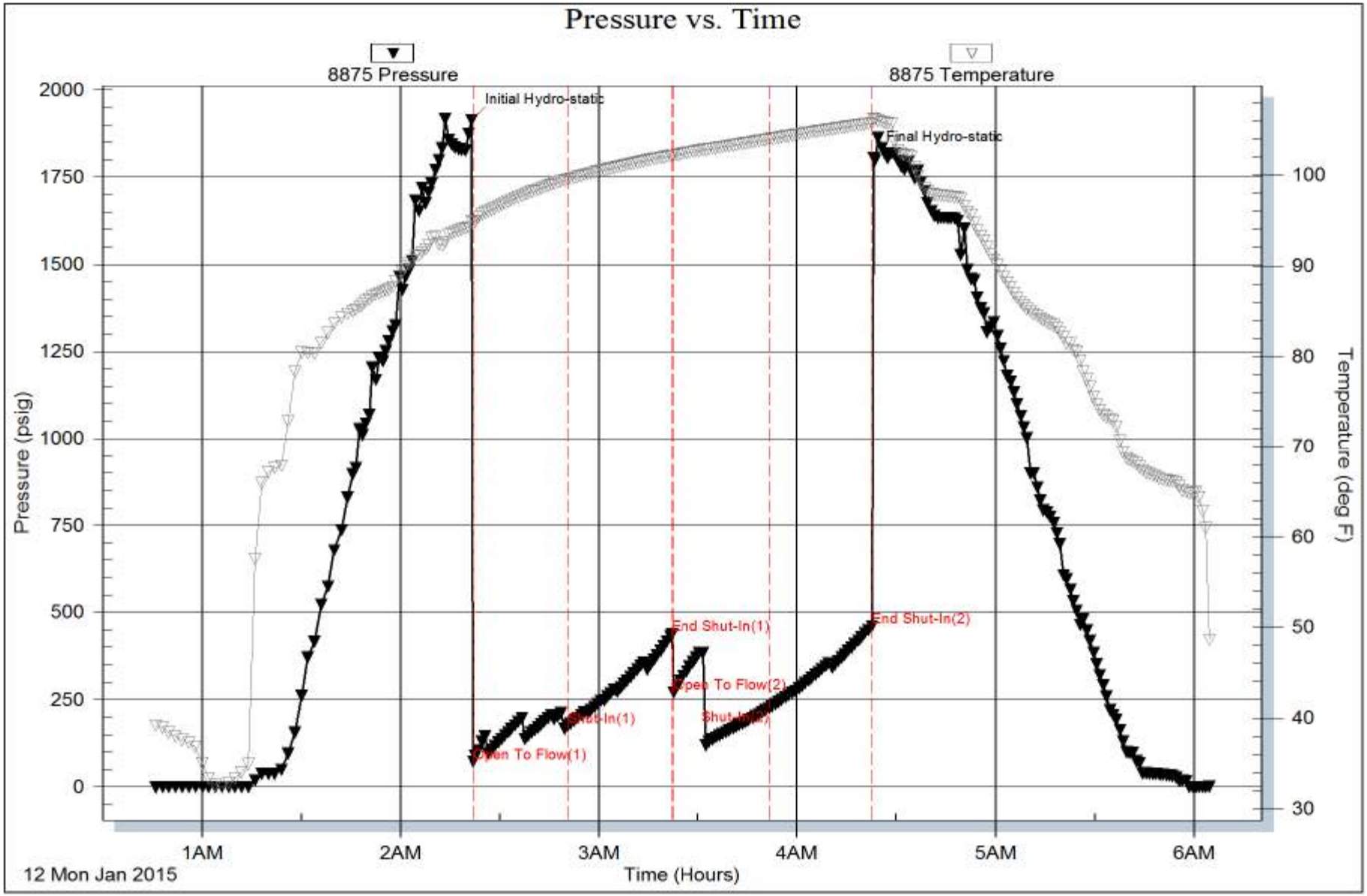
Total Length: 15.00 ft Total Volume: 0.210 bbl

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

Laboratory Name: Laboratory Location:

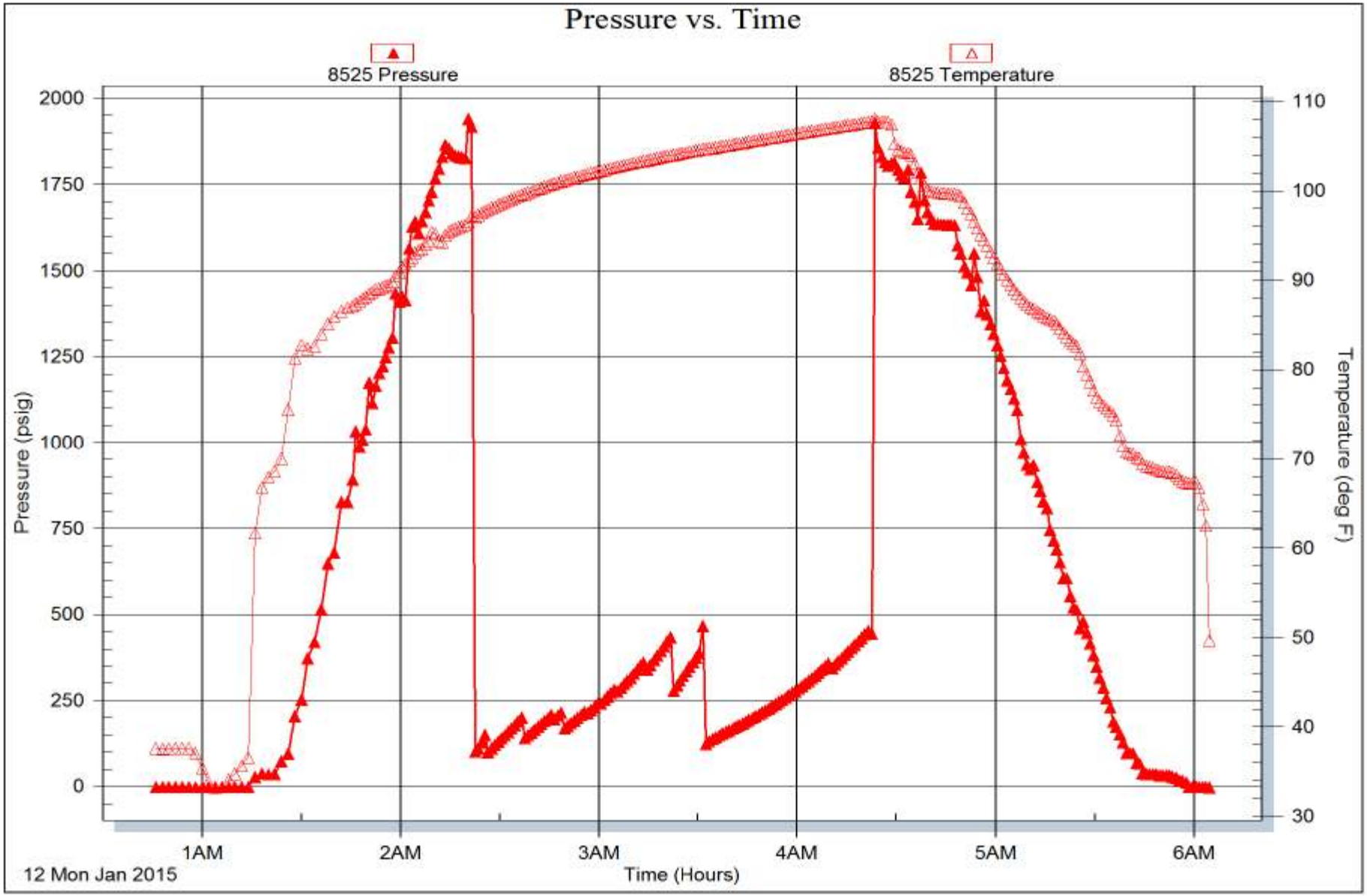
Recovery Comments:

Serial #: 8875 **Inside** Charter Energy Gleason #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 62111 Printed: 2015.01.15 @ 09:53:52

Serial #: 8525 **Inside** Charter Energy Gleason #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 62111 Printed: 2015.01.15 @ 09:53:52

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 62109

Well Name & No. Gleason #1 Test No. 1-10-15 Date 1-

Company Charter Energy Elevation 1918 KB 1925 GL

Address PO Box 252 Great Bend KS 67530

Co. Rep / Geo. Kurt talbott Rig Royal Drilling

Location: Sec. 36 Twp. 22 Rge. 14 Co. Stafford State KS

Interval Tested 3569-3595 Zone Tested Lansing H

Anchor Length 27 Drill Pipe Run 3577 Mud Wt. 9.4

Top Packer Depth 3563 Drill Collars Run 0 Vis 64

Bottom Packer Depth 3569 Wt. Pipe Run 46,000 WL 9.6

Total Depth 3595 Chlorides 6700 ppm System LCM 0

Blow Description 1st open - weak building blow built to 1.5 inches.
1st shut in - No blow back.
2nd open - weak building blow built to 1 inch.
2nd shut in - No blo back.

Rec 15	Feet of oil spced mud	%gas	%oil	%water 100	%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 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1848	☐ Test 1050	T-On Location 10:00am
(B) First Initial Flow 26	☐ Jars	T-Started 11:13am
(C) First Final Flow 27	☐ Safety Joint	T-Open 12:45pm
(D) Initial Shut-In 45	☐ Circ Sub	T-Pulled 3:00pm
(E) Second Initial Flow 25	☐ Hourly Standby	T-Out 4:30pm
(F) Second Final Flow 29	☑ Mileage 54 54	Comments Thanks for the work!!
(G) Final Shut-In 47	☐ Sampler	
(H) Final Hydrostatic 1907	☐ 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 30	☐ Day Standby	Total 1104
Final Shut-In 45	☐ Accessibility	MP/DST Disc't X
	Sub Total 1104	

Approved By Our Representative Dustin Ellis

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 62110

Well Name & No. Gleason #1 Test No. ~~2-11-15~~ Date 1-11-15

Company Charter Energy Elevation 1918 KB 1925 GL

Address PO Box 252 Great Bend KS 67530

Co. Rep / Geo. Kurt Talbolt Rig Royal Drilling

Location: Sec. 36 Twp. 22 Rge. 14 Co. Stafford State KS

Interval Tested 3607-3690 Zone Tested Lansing I J K

Anchor Length 83 Drill Pipe Run 3612 Mud Wt. 9.4

Top Packer Depth 3602 Drill Collars Run 0 Vis 64

Bottom Packer Depth 3607 Wt. Pipe Run 47,000 WL 9.6

Total Depth 3690 Chlorides 6700 ppm System LCM 0

Blow Description 1st open - BOB 7 min.

1st shut in - No blow back

2nd open - BOB 8 min.

2nd shut in - No blow back

Rec 63	Feet of ~~OIP~~ gassy oil cut mud	5 %gas	10 %oil	%water 85	%mud	
Rec 67	Feet of gassy oil cut mud	10 %gas	50 %oil	%water 40	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 130 BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1855	☐ Test 1050	T-On Location 2:45 am
(B) First Initial Flow 56	☐ Jars	T-Started 3:07 am
(C) First Final Flow 77	☐ Safety Joint	T-Open 4:37 am
(D) Initial Shut-In 1056	☐ Circ Sub	T-Pulled 7:46 am
(E) Second Initial Flow 83	☐ Hourly Standby	T-Out 9:40 am
(F) Second Final Flow 105	☒ Mileage 54 54	Comments 950 ft gas in pipe.
(G) Final Shut-In 1036	☐ Sampler	
(H) Final Hydrostatic 1701	☐ 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 1104
	Sub Total 1104	MP/DST Disc't

Approved By Our Representative Dustin Ellis

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 62111

Well Name & No. Gleason #1 Test No. 3 Date 1-12-15

Company Charter Energy Elevation 1918 KB 1925 GL

Address Po Box 252 Great Bend KS 67530

Co. Rep / Geo. Kurt talbolt Rig Royal Drilling

Location: Sec. 36 Twp. 22 Rge. 14 Co. Stafford State KS

Interval Tested 3767-3835 Zone Tested Simpson - Arbuckle

Anchor Length 68 Drill Pipe Run 3770 Mud Wt. 9.1

Top Packer Depth 3762 Drill Collars Run 0 Vis 53

Bottom Packer Depth 3767 Wt. Pipe Run 43,000 WL 16.8

Total Depth 3835 Chlorides 16,600 ppm System LCM 1

Blow Description 1st open - weak building blow built to 2 inches

1st shut in - No blow back

2nd open - Dead Flushed tool

2nd shut in - No blow back

Rec 15	Feet of mud	%gas	%oil	%water 100	%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 ____ Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic	1913	☐ Test 850	T-On Location 12:15 am
(B) First Initial Flow	71	☐ Jars	T-Started 12:45 pm
(C) First Final Flow	174	☐ Safety Joint	T-Open 2:21 am
(D) Initial Shut-In	437	☐ Circ Sub	T-Pulled 4:21
(E) Second Initial Flow	270	☐ Hourly Standby	T-Out 6:00 am
(F) Second Final Flow	225	☑ Mileage 54 54	Comments
(G) Final Shut-In	460	☐ Sampler	
(H) Final Hydrostatic	1905	☐ 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	30	☐ Day Standby	Total 904
Final Shut-In	30	☐ Accessibility	MP/DST Disc't
		Sub Total 904	

Approved By ____ Our Representative Dustin Ellis