

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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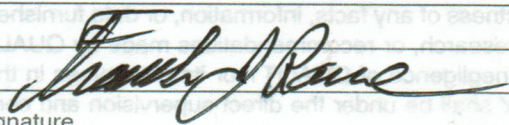
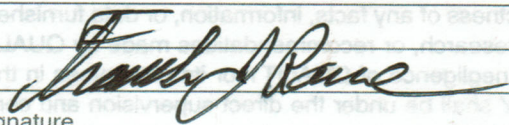
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. **3460**

Date	2-9-23	Sec.	3	Twp.	22	Range	13	County	Stafford	State	Ks	On Location		Finish	10:30 PM	
Lease	Fischer unit							Well No.	1							
Contractor	Southwind							Location	281+ K19 Jct, 1 E, 1/2 N, W1 Int							
Type Job	Surface							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.							
Hole Size	12 1/4"		T.D.	431'		Charge To	Charter Energy									
Csg.	8 5/8"		Depth	430'		Street										
Tbg. Size			Depth			City	State		LL							
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.	20'		Shoe Joint	20'		Cement Amount Ordered	450 60/40 4% 2% gel 2% gel									
Meas Line	Displace		26 BUS		1/2 # Flo-seal		Used 380									
EQUIPMENT																
Pumptrk	16	No.	Cement Helper		Jordan		Common	230								
Bulktrk	19	No.	Driver		Corey		Poz. Mix	150								
Bulktrk	p.u.	No.	Driver		Rick		Gel.									
Bulktrk	p.u.	No.	Driver		Rick		Calcium	17								
JOB SERVICES & REMARKS																
Remarks:	Cement did Circulate															
Rat Hole								Flowseal	200 #							
Mouse Hole								Kol-Seal								
Centralizers								Mud CLR	48							
Baskets								CFL-117 or CD110 CAF	38							
D/V or Port Collar								Sand								
	Used 380 sk							Handling	450							
								Mileage								
FLOAT EQUIPMENT																
								Guide Shoe								
								Centralizer								
								Baskets								
								AFU Inserts								
								Float Shoe								
								Latch Down								
								Pumptrk Charge	Surface							
								Mileage	17							
													Tax Discount Total Charge			
													Thanks			



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

TICKET 35849

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Hays</u>	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
2. <u>Ness City</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Southwind</u>	RIG NAME/NO.	SHIPPED <u>Yes</u>	DELIVERED TO <u>LOCATION</u>	2/13/23	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>development</u>	JOB PURPOSE <u>long string</u>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT								
545											
578				Pump Charge - long string	80	mi				8.00	640.00
290				A-Air	2	hr				42.00	84.00
281				Mudflush	500	bar				2.50	1250.00
221				fluid bar	2	bar				25.00	50.00
406				Latex Down Plug & Baffle	1	ea		5-1/2"		300.00	300.00
402				Insert floor shoe w/ Ann fill	1	ea				400.00	400.00
409				Turbolizer	2	ea				110.00	220.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 DATE SIGNED _____ TIME SIGNED _____
 A.M. P.M.

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

SURVEY	AGREE	UNDECIDED	DISAGREE
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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		

PAGE TOTAL	5794.00
TOTAL	11517.09

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR Davis Edgerton APPROVAL _____
 Thank You!



Seawater, Inc.

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

TICKET CONTINUATION

TICKET No. 55859

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				DATE				
		LOC	ACCT	DF			QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT	DATE	PAGE	OF
325						Standard Cement	175	SX				16	00	2800	00
184						CASPER	8	SX				50	00	400	00
283						SALT	950	LBS				85	00	237	50
292						HYDRO - 322	100	LBS				9	00	900	00
276						Floater	50	LBS				4	00	200	00
581															
583															

CUSTOMER Charter Energy
WELL Fischer Unit 1
DATE 2/13/23 PAGE 1 OF 1

SERVICE CHARGE Cement
MILEAGE CHARGE / 8350
TOTAL WEIGHT 80
LOADED IN 80

CUBIC FEET 175 SX
NON MILES 734
2 00
350
734 00

CONTINUATION TOTAL 5621 50

JOB LOG

SWIFT Services, Inc.

DATE 2/17/23 PAGE NO.

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
<u>Charter</u>		<u>1</u>		<u>Fischer Unit</u>		<u>long string</u>		<u>35859</u>	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	<u>1:30</u>								<u>On location</u>
									<u>CSG - 5 1/2</u>
									<u>RTO - 3800</u>
									<u>TOTAL pipe - 3785</u>
									<u>Shoe JT - 25'</u>
									<u>Turbolizers - 1, 4, 6, 9, 12, 15, 19</u>
	<u>3:45</u>	<u>600</u>							<u>START Running CSG</u>
	<u>6:00</u>								<u>BREAK Circ on Btm & try to</u>
									<u>circ CSG Down</u>
	<u>6:45</u>	<u>2</u>	<u>8</u>			<u>0</u>			<u>plug rat hole - 30 sx</u>
		<u>2</u>	<u>4</u>			<u>0</u>			<u>plug mouse hole 15 sx</u>
		<u>6</u>	<u>12</u>			<u>600</u>			<u>pump mud flush - 500 Gall</u>
		<u>6</u>	<u>20</u>			<u>600</u>			<u>pump KCL spacer</u>
		<u>5</u>	<u>32</u>			<u>500</u>			<u>pump CMT - 130 sx</u>
									<u>Drop plug - wash pd L</u>
		<u>7</u>	<u>0</u>			<u>300</u>			<u>Start Disp</u>
	<u>8:00</u>	<u>6</u>	<u>90</u>			<u>1200</u>			<u>land plug @ 1800 psi</u>
									<u>Release psi - Dry</u>
									<u>JOB Complete</u>
									<u>Thanks</u>
									<u>David & Seth & Brett</u>



DRILL STEM TEST REPORT

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

P.O. Box 252
Great Bend, KS 67530

ATTN: Jim Musgrove

Fischer Unit #1

3-22s-13w Stafford,KS

Start Date: 2023.02.13 @ 15:40:00

End Date: 2023.02.13 @ 23:02:02

Job Ticket #: 70588 DST #: 1

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

Printed: 2023.02.16 @ 14:56:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

3-22s-13w Stafford,KS

Fischer Unit #1

Job Ticket: 70588 **DST#: 1**
Test Start: 2023.02.13 @ 15:40:00

GENERAL INFORMATION:

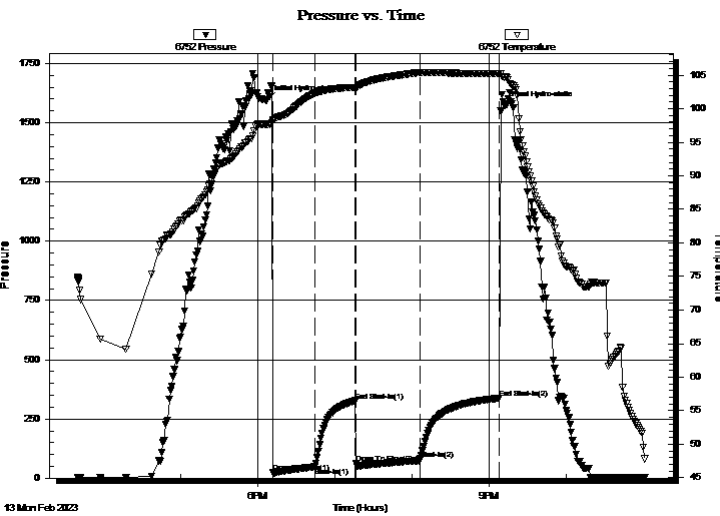
Formation: **LKC D-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:12:02
Time Test Ended: 23:02:02
Interval: **3404.00 ft (KB) To 3469.00 ft (KB) (TVD)**
Total Depth: 3469.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 1895.00 ft (KB)
1882.00 ft (CF)
KB to GR/CF: 13.00 ft
Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 69

Serial #: 6752

Inside

Press@RunDepth: 81.46 psig @ 3407.00 ft (KB) Capacity: psig
Start Date: 2023.02.13 End Date: 2023.02.13 Last Calib.: 2023.02.13
Start Time: 15:40:01 End Time: 23:02:02 Time On Btm: 2023.02.13 @ 18:07:32
Time Off Btm: 2023.02.13 @ 21:12:32

TEST COMMENT: IF: 30 min., BOB 3 min., strong building blow , 27 inches
IS: 30 min., no blow back
FF: 45 min., BOB 24 min., strong building blow , 15 inches
FSI: 60 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1595.60	97.66	Initial Hydro-static
5	24.58	98.13	Open To Flow (1)
37	47.69	102.29	Shut-In(1)
69	326.60	103.14	End Shut-In(1)
69	60.50	103.12	Open To Flow (2)
119	81.46	105.38	Shut-In(2)
181	337.40	105.21	End Shut-In(2)
185	1572.92	104.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
116.00	MW w / oil spots 70%W,30%M	1.63

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

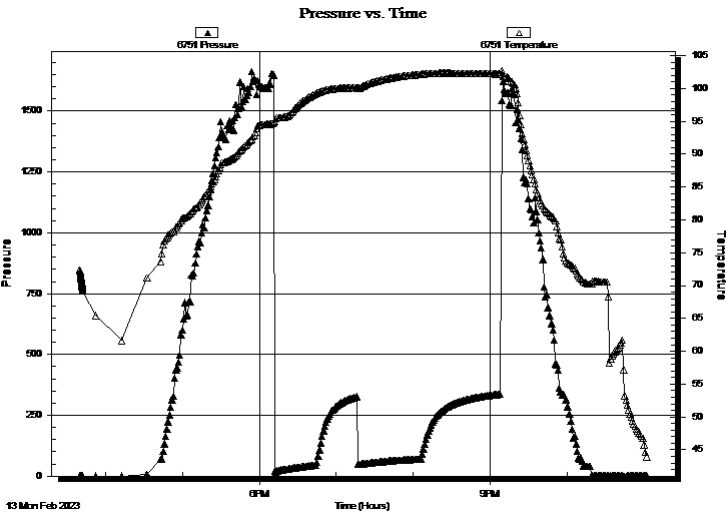
3-22s-13w Stafford,KS
Fischer Unit #1
 Job Ticket: 70588 **DST#: 1**
 Test Start: 2023.02.13 @ 15:40:00

GENERAL INFORMATION:

Formation: **LKC D-F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:12:02 Tester: Chris Hagman
 Time Test Ended: 23:02:02 Unit No: 69
Interval: 3404.00 ft (KB) To 3469.00 ft (KB) (TVD)
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3469.00 ft (KB) (TVD) 1882.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 13.00 ft

Serial #: 6751 Outside
 Press@RunDepth: psig @ 3407.00 ft (KB) Capacity: psig
 Start Date: 2023.02.13 End Date: 2023.02.13 Last Calib.: 1899.12.30
 Start Time: 15:40:01 End Time: 23:02:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 30 min., BOB 3 min., strong building blow , 27 inches
 IS: 30 min., no blow back
 FF: 45 min., BOB 24 min., strong building blow , 15 inches
 FS: 60 min., no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
116.00	MW w / oil spots 70%W,30%M	1.63

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

3-22s-13w Stafford,KS

P.O. Box 252
Great Bend, KS 67530

Fischer Unit #1

Job Ticket: 70588

DST#: 1

ATTN: Jim Musgrove

Test Start: 2023.02.13 @ 15:40:00

Tool Information

Drill Pipe:	Length: 3394.00 ft	Diameter: 3.80 inches	Volume: 47.61 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3404.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3379.00	
Hydraulic tool	5.00			3384.00	
Isolator Sub	3.00			3387.00	
Jars	5.00			3392.00	
Safety Joint	3.00			3395.00	
Packer	5.00			3400.00	30.00 Bottom Of Top Packer
Packer	4.00			3404.00	
Stubb	1.00			3405.00	
Perforations	2.00			3407.00	
Recorder	0.00	6752	Inside	3407.00	
Recorder	0.00	6751	Outside	3407.00	
Pickup sub perf	5.00			3412.00	
Perforations	20.00			3432.00	
Change Over Sub	1.00			3433.00	
Drill Pipe	32.00			3465.00	
Change Over Sub	1.00			3466.00	
Bullnose	3.00			3469.00	65.00 Bottom Packers & Anchor
Total Tool Length:	95.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

3-22s-13w Stafford,KS
Fischer Unit #1
Job Ticket: 70588 **DST#: 1**
Test Start: 2023.02.13 @ 15:40:00

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:	41000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: inches			

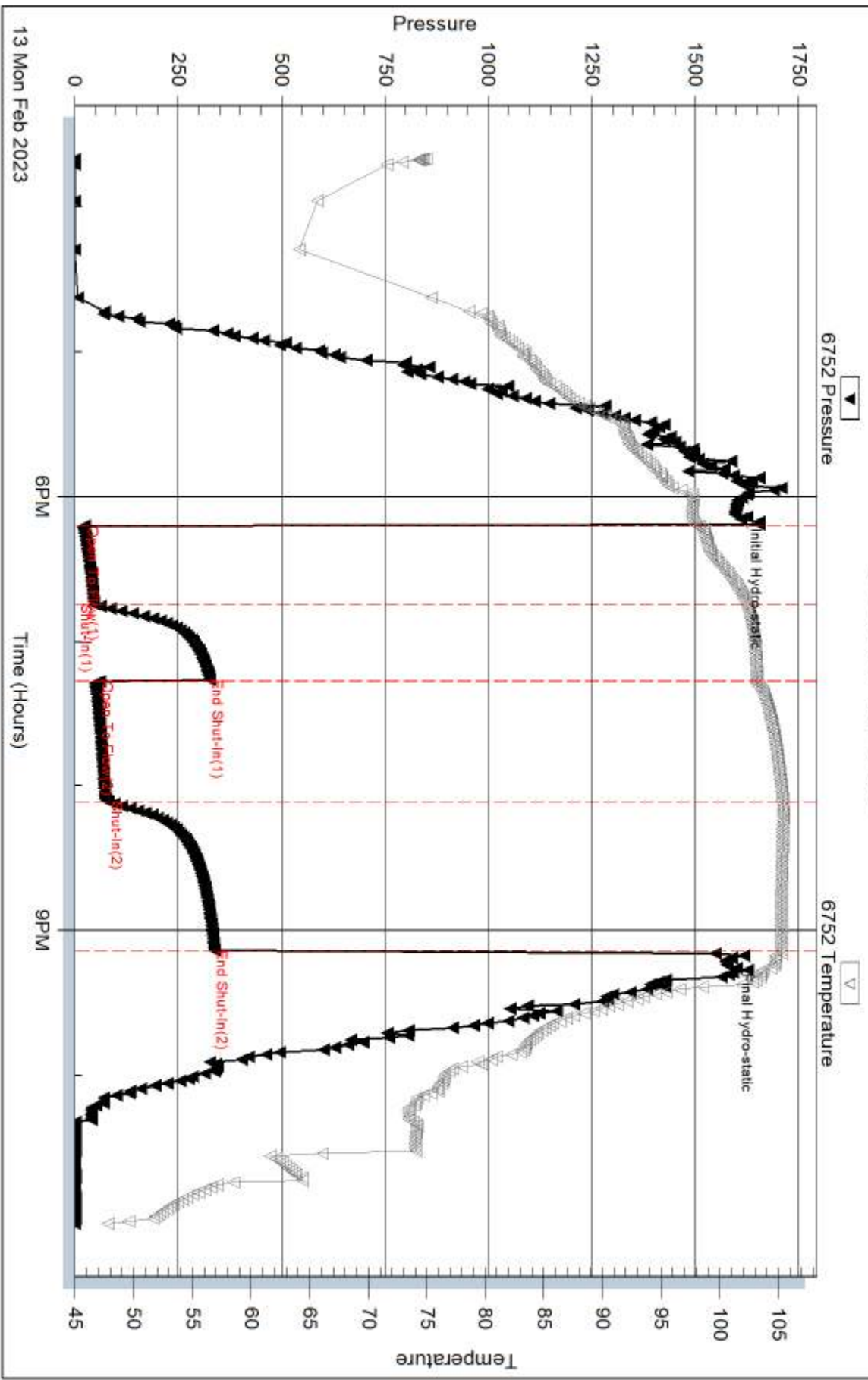
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
116.00	MW w / oil spots 70%W,30%M	1.627

Total Length: 116.00 ft Total Volume: 1.627 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 126' GIP
 RW=.205@62F=41000ppm

Pressure vs. Time



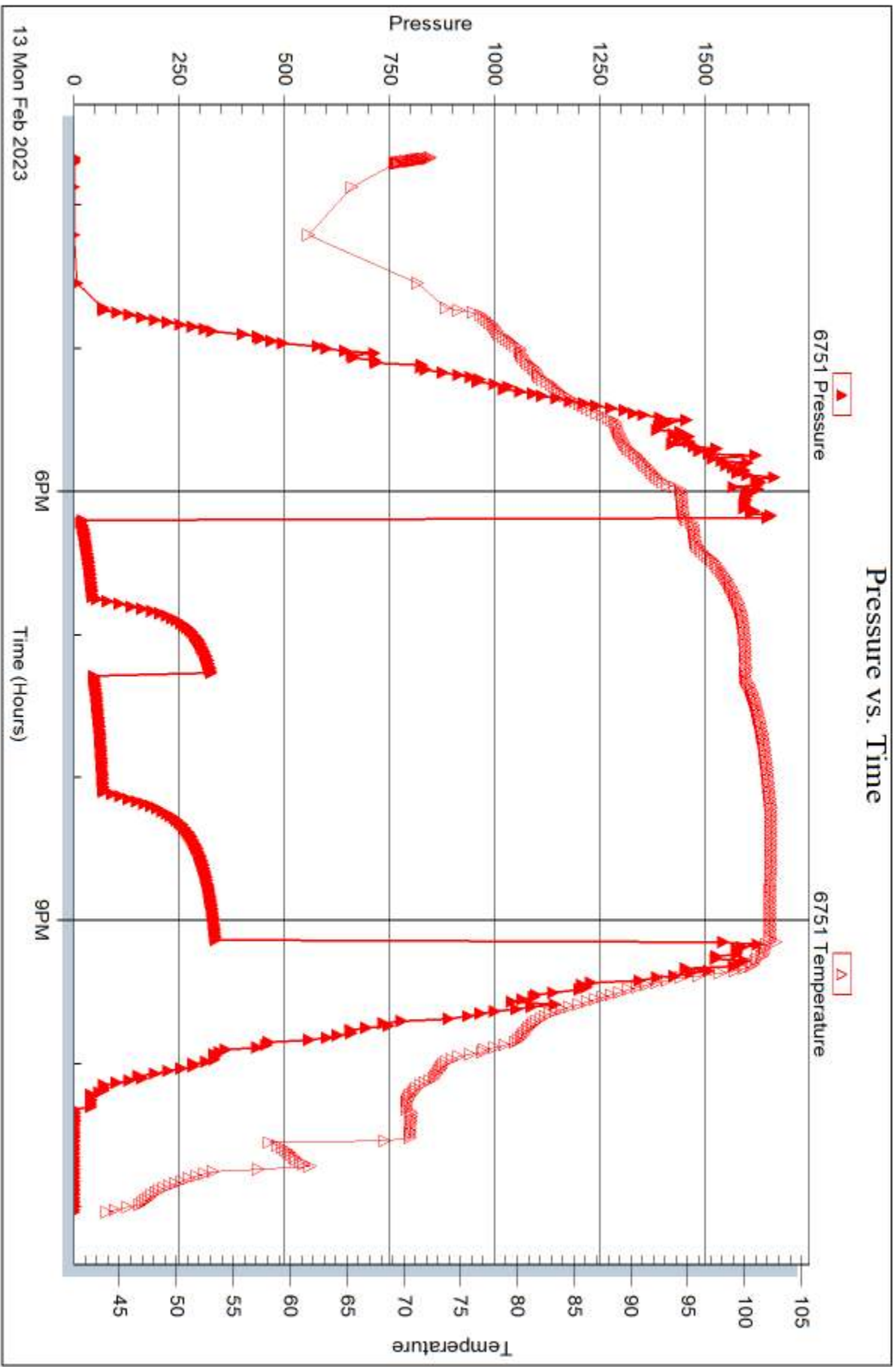
13 Mon Feb 2023

Serial #: 6751

Outside Charter Energy, Inc.

Fischer Unit #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 70588

Printed: 2023.02.16 @ 14:56:19



DRILL STEM TEST REPORT

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

P.O. Box 252
Great Bend, KS 67530

ATTN: Jim Musgrove

Fischer Unit #1

3-22s-13w Stafford,KS

Start Date: 2023.02.14 @ 09:49:00

End Date: 2023.02.14 @ 15:41:02

Job Ticket #: 70589 DST #: 2

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

Printed: 2023.02.16 @ 14:55:12

Charter Energy, Inc. 3-22s-13w Stafford,KS Fischer Unit #1 DST # 2 LKC H-K 2023.02.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

3-22s-13w Stafford,KS

Fischer Unit #1

Job Ticket: 70589

DST#: 2

Test Start: 2023.02.14 @ 09:49:00

GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:21:02
 Tester: Chris Hagman
 Time Test Ended: 15:41:02
 Unit No: 69
 Interval: **3468.00 ft (KB) To 3554.00 ft (KB) (TVD)**
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3554.00 ft (KB) (TVD)
 1882.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 13.00 ft

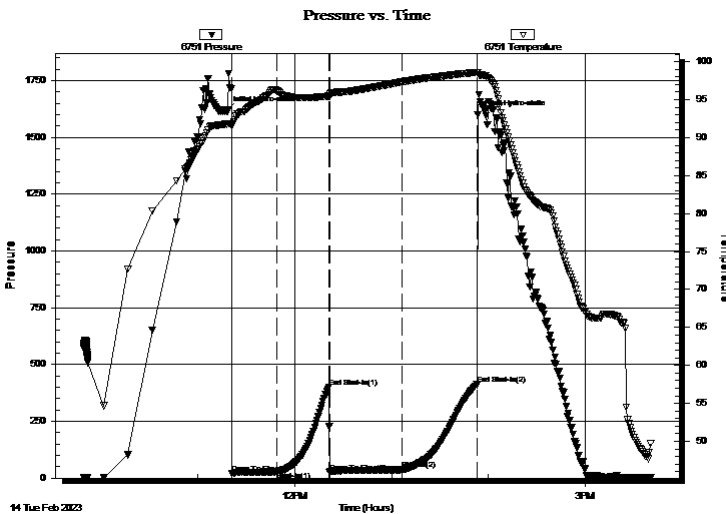
Serial #: 6751

Outside

Press@RunDepth: 37.23 psig @ 3471.00 ft (KB) Capacity: psig
 Start Date: 2023.02.14 End Date: 2023.02.14 Last Calib.: 2023.02.14
 Start Time: 09:49:01 End Time: 15:41:02 Time On Btm: 2023.02.14 @ 11:18:02
 Time Off Btm: 2023.02.14 @ 13:53:32

TEST COMMENT: IF: 30 min., fair building blow , 3 inches
 IS: 30 min., no blow back
 FF: 45 min., fair building blow , 3 inches
 FS: 45 min., no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1619.61	91.80	Initial Hydro-static
3	21.50	91.60	Open To Flow (1)
31	28.42	96.22	Shut-In(1)
63	400.83	95.47	End Shut-In(1)
64	25.31	95.49	Open To Flow (2)
109	37.23	97.33	Shut-In(2)
155	413.83	98.57	End Shut-In(2)
156	1600.85	98.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud w / oil spots 100%M	0.63

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

3-22s-13w Stafford,KS

Fischer Unit #1

Job Ticket: 70589 **DST#: 2**
 Test Start: 2023.02.14 @ 09:49:00

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:21:02

Time Test Ended: 15:41:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3468.00 ft (KB) To 3554.00 ft (KB) (TVD)

Total Depth: 3554.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1895.00 ft (KB)

1882.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6752 Inside

Press@RunDepth: psig @ 3471.00 ft (KB)

Capacity: psig

Start Date: 2023.02.14 End Date: 2023.02.14

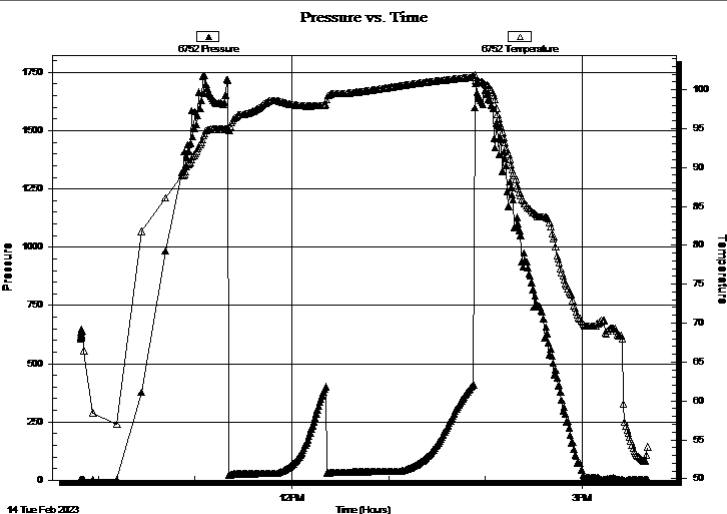
Last Calib.: 1899.12.30

Start Time: 09:49:01 End Time: 15:41:02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 30 min., fair building blow , 3 inches
 IS: 30 min., no blow back
 FF: 45 min., fair building blow , 3 inches
 FS: 45 min., no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud w / oil spots 100%M	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

3-22s-13w Stafford,KS
Fischer Unit #1
Job Ticket: 70589 **DST#: 2**
Test Start: 2023.02.14 @ 09:49:00

Tool Information

Drill Pipe:	Length: 3458.00 ft	Diameter: 3.80 inches	Volume: 48.51 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 48.51 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3468.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	86.00 ft				
Tool Length:	116.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3443.00	
Hydraulic tool	5.00			3448.00	
Isolator Sub	3.00			3451.00	
Jars	5.00			3456.00	
Safety Joint	3.00			3459.00	
Packer	5.00			3464.00	30.00 Bottom Of Top Packer
Packer	4.00			3468.00	
Stubb	1.00			3469.00	
Perforations	2.00			3471.00	
Recorder	0.00	6752	Inside	3471.00	
Recorder	0.00	6751	Outside	3471.00	
Pickup sub perf	5.00			3476.00	
Perforations	10.00			3486.00	
Change Over Sub	1.00			3487.00	
Drill Pipe	63.00			3550.00	
Change Over Sub	1.00			3551.00	
Bullnose	3.00			3554.00	86.00 Bottom Packers & Anchor
Total Tool Length:	116.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

3-22s-13w Stafford,KS

P.O. Box 252
Great Bend, KS 67530

Fischer Unit #1

Job Ticket: 70589

DST#: 2

ATTN: Jim Musgrove

Test Start: 2023.02.14 @ 09:49:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud w / oil spots 100%M	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

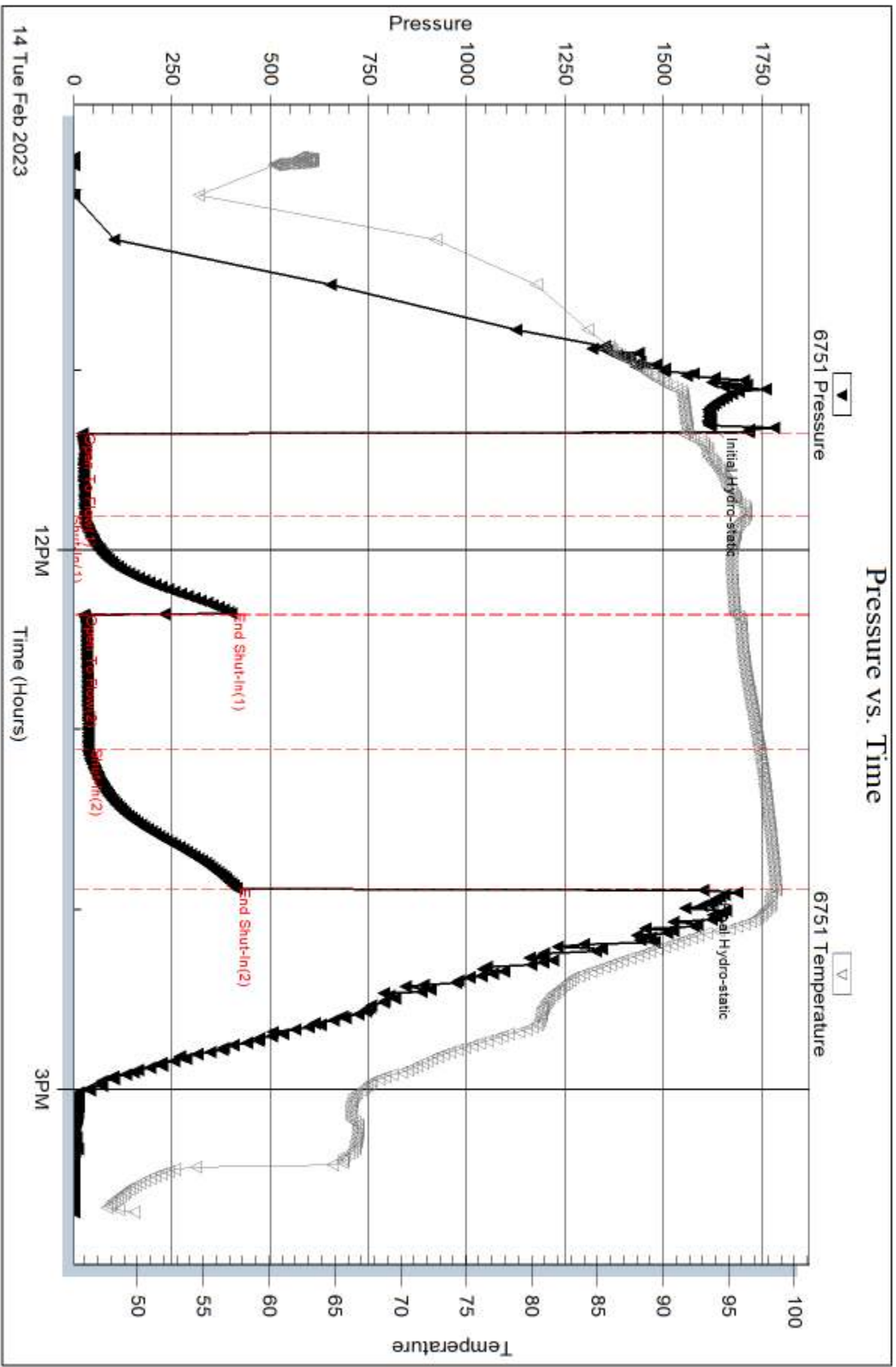
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



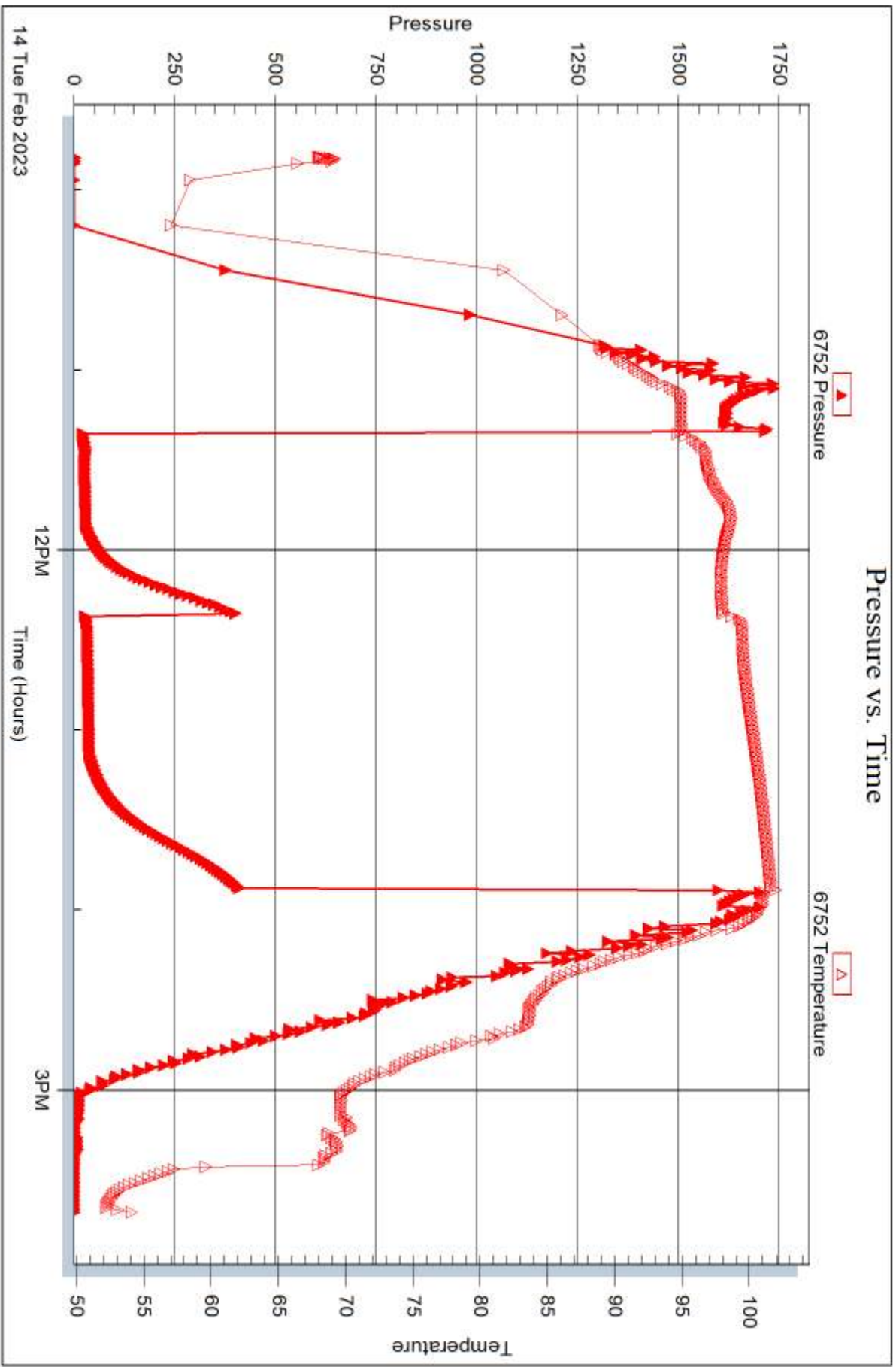
Serial #: 6752

Inside

Charter Energy, Inc.

Fischer Unit #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 70589

Printed: 2023.02.16 @ 14:55:12



DRILL STEM TEST REPORT

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

P.O. Box 252
Great Bend, KS 67530

ATTN: Jim Musgrove

Fischer Unit #1

3-22s-13w Stafford,KS

Start Date: 2023.02.15 @ 09:09:00

End Date: 2023.02.15 @ 16:17:02

Job Ticket #: 70590 DST #: 3

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

Printed: 2023.02.16 @ 14:46:24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

3-22s-13w Stafford,KS

Fischer Unit #1

Job Ticket: 70590

DST#: 3

Test Start: 2023.02.15 @ 09:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:14:17

Time Test Ended: 16:17:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3648.00 ft (KB) To 3719.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3719.00 ft (KB) (TVD)

1882.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6752 Inside

Press@RunDepth: 30.59 psig @ 3651.00 ft (KB)

Capacity: psig

Start Date: 2023.02.15

End Date: 2023.02.15

Last Calib.: 1899.12.30

Start Time: 09:09:01

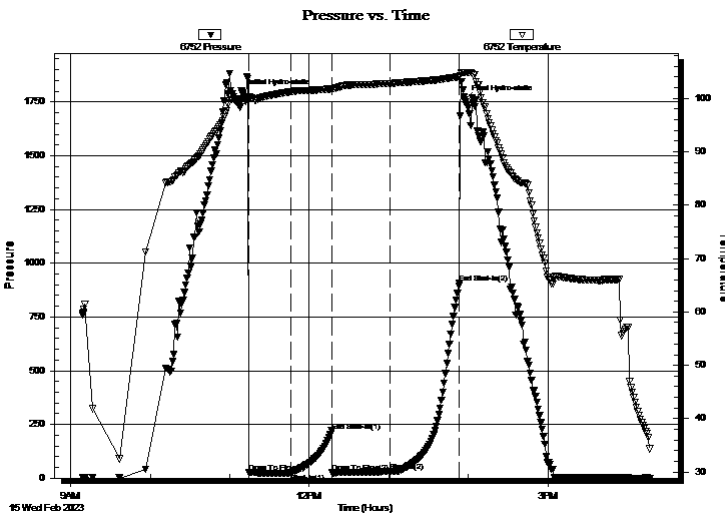
End Time: 16:17:02

Time On Btm: 2023.02.15 @ 11:09:17

Time Off Btm: 2023.02.15 @ 13:57:17

TEST COMMENT: IF: 30 min., fair building blow , 4.4 inches
FSI: 30 min., no blow back
FF: 45 min., BOB 42 min., strong building blow , 13 inches
FSI: 45 min., no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.06	99.96	Initial Hydro-static
6	25.19	99.92	Open To Flow (1)
37	24.67	101.22	Shut-In(1)
68	220.34	101.80	End Shut-In(1)
69	26.08	101.82	Open To Flow (2)
112	30.59	102.76	Shut-In(2)
165	906.91	104.08	End Shut-In(2)
168	1760.56	104.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	GSOCM 5%G,5%O.90%M	0.49

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

3-22s-13w Stafford, KS
Fischer Unit #1
Job Ticket: 70590 **DST#: 3**
Test Start: 2023.02.15 @ 09:09:00

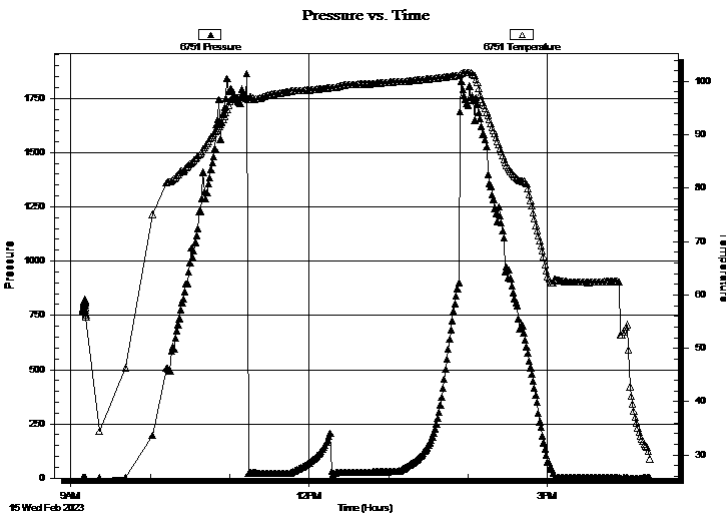
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:14:17
Time Test Ended: 16:17:02
Interval: **3648.00 ft (KB) To 3719.00 ft (KB) (TVD)**
Total Depth: 3719.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 69
Reference Elevations: 1895.00 ft (KB)
1882.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 3651.00 ft (KB) Capacity: psig
Start Date: 2023.02.15 End Date: 2023.02.15 Last Calib.: 1899.12.30
Start Time: 09:09:01 End Time: 16:17:02 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 30 min., fair building blow , 4.4 inches
FSI: 30 min., no blow back
FF: 45 min., BOB 42 min., strong building blow , 13 inches
FSI: 45 min., no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	GSOCM 5%G,5%O.90%M	0.49

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

3-22s-13w Stafford,KS

P.O. Box 252
Great Bend, KS 67530

Fischer Unit #1

Job Ticket: 70590

DST#: 3

ATTN: Jim Musgrove

Test Start: 2023.02.15 @ 09:09:00

Tool Information

Drill Pipe:	Length: 3650.00 ft	Diameter: 3.80 inches	Volume: 51.20 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 51.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3648.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	71.00 ft				
Tool Length:	101.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3623.00	
Hydraulic tool	5.00			3628.00	
Isolator Sub	3.00			3631.00	
Jars	5.00			3636.00	
Safety Joint	3.00			3639.00	
Packer	5.00			3644.00	30.00 Bottom Of Top Packer
Packer	4.00			3648.00	
Stubb	1.00			3649.00	
Perforations	2.00			3651.00	
Recorder	0.00	6752	Inside	3651.00	
Recorder	0.00	6751	Outside	3651.00	
Pickup sub perf	5.00			3656.00	
Perforations	26.00			3682.00	
Change Over Sub	1.00			3683.00	
Drill Pipe	32.00			3715.00	
Change Over Sub	1.00			3716.00	
Bullnose	3.00			3719.00	71.00 Bottom Packers & Anchor
Total Tool Length:	101.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

3-22s-13w Stafford,KS

P.O. Box 252
Great Bend, KS 67530

Fischer Unit #1

Job Ticket: 70590

DST#: 3

ATTN: Jim Musgrove

Test Start: 2023.02.15 @ 09:09:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 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
35.00	GSOCM 5%G,5%O.90%M	0.491

Total Length: 35.00 ft

Total Volume: 0.491 bbl

Num Fluid Samples: 0

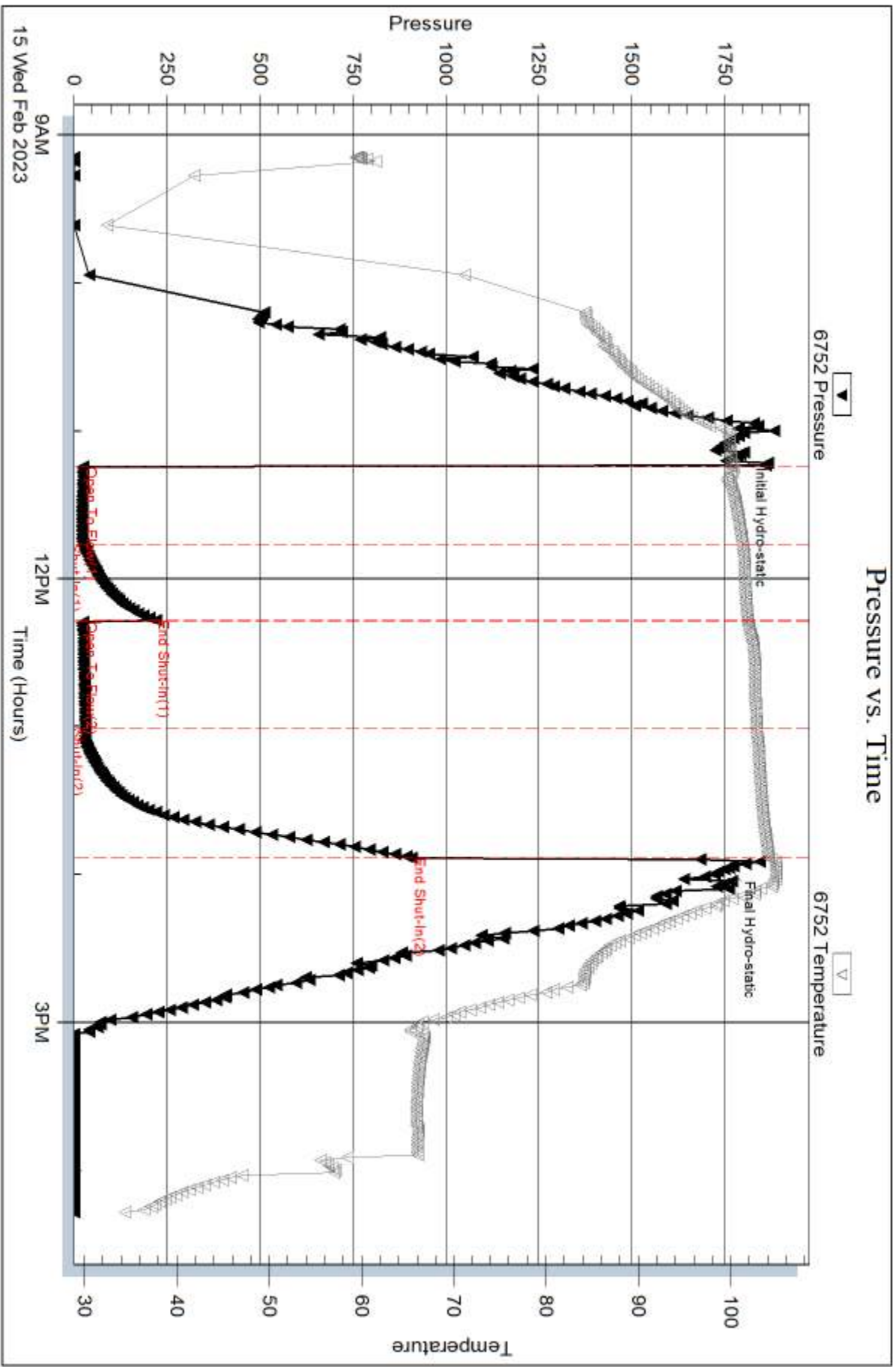
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 63' GIP

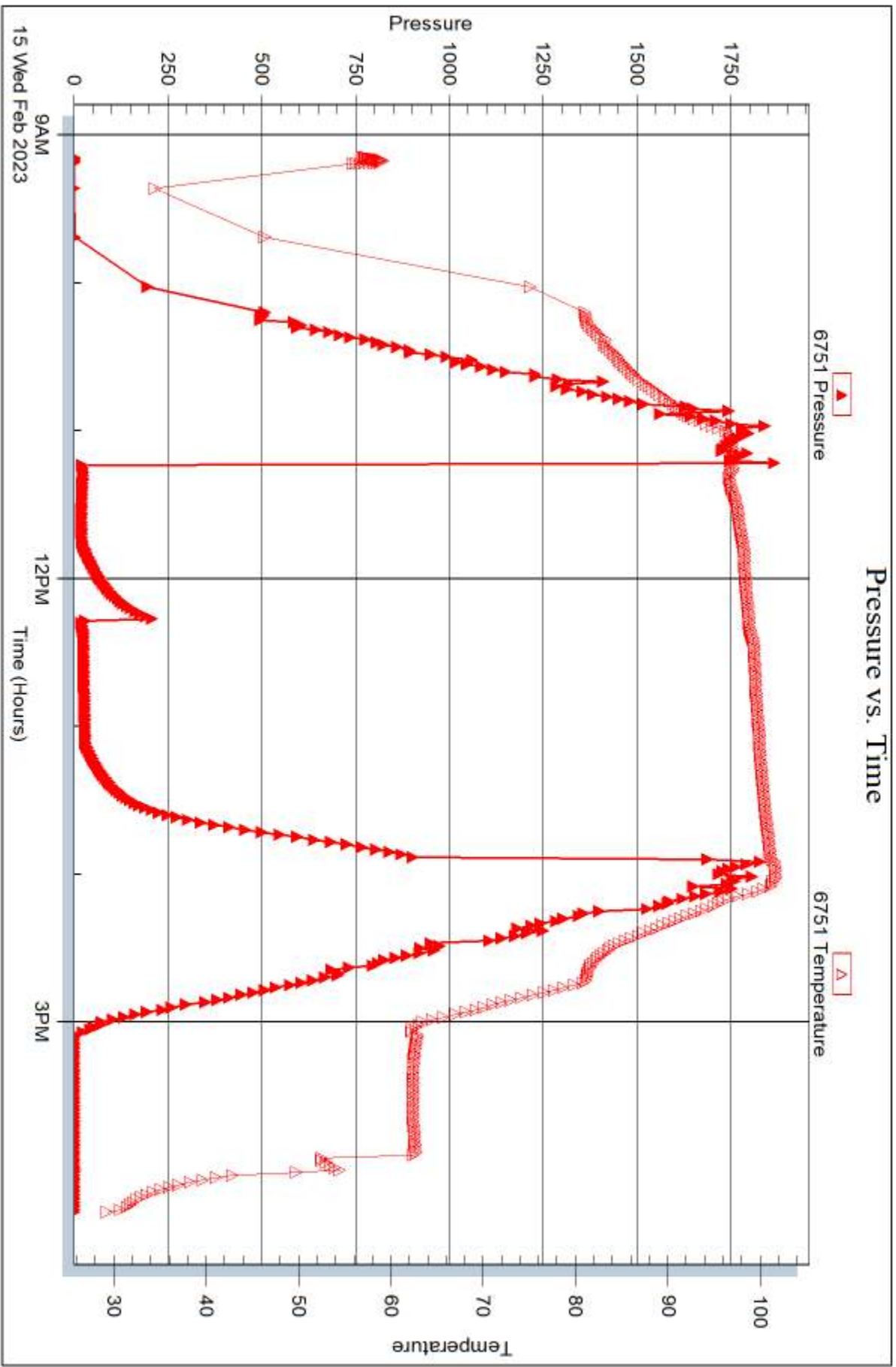


Serial #: 6751

Outside Charter Energy, Inc.

Fischer Unit #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 70590

Printed: 2023.02.16 @ 14:46:24



DRILL STEM TEST REPORT

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

P.O. Box 252
Great Bend, KS 67530

ATTN: Jim Musgrove

Fischer Unit #1

3-22s-13w Stafford,KS

Start Date: 2023.02.15 @ 11:42:00

End Date: 2023.02.15 @ 19:22:02

Job Ticket #: 70590 DST #: 4

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

Printed: 2023.02.16 @ 14:44:46



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

3-22s-13w Stafford,KS

Fischer Unit #1

Job Ticket: 70590 **DST#: 4**
 Test Start: 2023.02.15 @ 11:42:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:34:47
 Time Test Ended: 19:22:02
 Interval: **3650.00 ft (KB) To 3724.00 ft (KB) (TVD)**
 Total Depth: 3724.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 1895.00 ft (KB)
 1882.00 ft (CF)
 KB to GR/CF: 13.00 ft

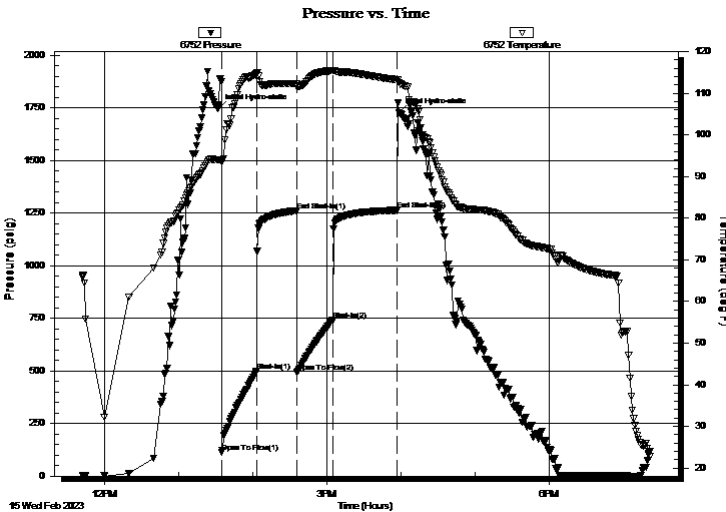
Serial #: 6752

Inside

Press@RunDepth: 739.34 psig @ 3653.00 ft (KB) Capacity: psig
 Start Date: 2023.02.15 End Date: 2023.02.15 Last Calib.: 1899.12.30
 Start Time: 11:42:01 End Time: 19:22:02 Time On Btm: 2023.02.15 @ 13:31:47
 Time Off Btm: 2023.02.15 @ 15:58:17

TEST COMMENT: IF: 30 min., BOB 2.5 min., strong building blow , 121 inches
 IS: 30 min., no blow back
 FF: 30 min., BOB 3 min., strong building blow , 100 inches
 FS: 45 min., blow back 3 min., .25 inches

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1744.41	94.06	Initial Hydro-static
3	113.60	93.40	Open To Flow (1)
31	497.56	114.60	Shut-In(1)
64	1260.33	112.20	End Shut-In(1)
64	494.62	111.67	Open To Flow (2)
93	739.34	115.45	Shut-In(2)
145	1262.81	113.22	End Shut-In(2)
147	1726.43	112.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
756.00	GOCMW 10%G,15%O,45%W,30%M	10.60
945.00	GMOCW 5%G,10%O,80%W,5%M	13.26

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

3-22s-13w Stafford,KS

Fischer Unit #1

Job Ticket: 70590 **DST#: 4**

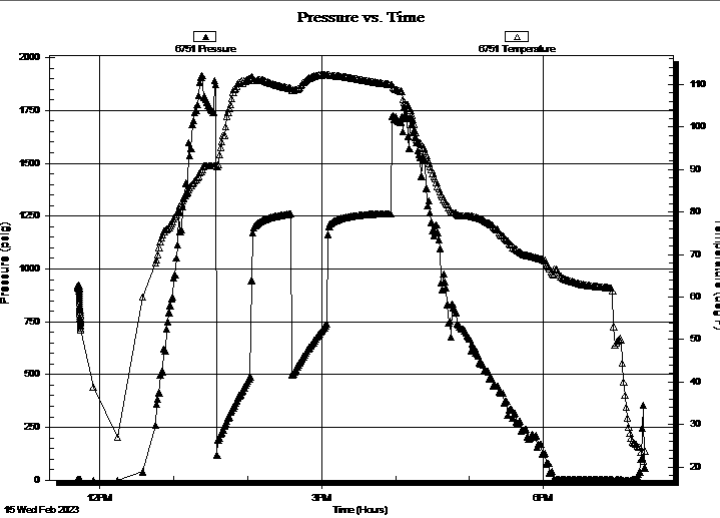
Test Start: 2023.02.15 @ 11:42:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:34:47
 Tester: Chris Hagman
 Time Test Ended: 19:22:02
 Unit No: 69
 Interval: **3650.00 ft (KB) To 3724.00 ft (KB) (TVD)**
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3724.00 ft (KB) (TVD)
 1882.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 13.00 ft

Serial #: 6751 Outside
 Press@RunDepth: psig @ 3653.00 ft (KB) Capacity: psig
 Start Date: 2023.02.15 End Date: 2023.02.15 Last Calib.: 1899.12.30
 Start Time: 11:42:01 End Time: 19:22:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 30 min., BOB 2.5 min., strong building blow, 121 inches
 IS: 30 min., no blow back
 FF: 30 min., BOB 3 min., strong building blow, 100 inches
 FS: 45 min., blow back 3 min., .25 inches



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

Recovery		
Length (ft)	Description	Volume (bbl)
756.00	GOCMW 10%G,15%O,45%W,30%M	10.60
945.00	GMOCW 5%G,10%O,80%W,5%M	13.26

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.

3-22s-13w Stafford,KS

P.O. Box 252
Great Bend, KS 67530

Fischer Unit #1

Job Ticket: 70590

DST#: 4

ATTN: Jim Musgrove

Test Start: 2023.02.15 @ 11:42:00

Tool Information

Drill Pipe:	Length: 3650.00 ft	Diameter: 3.80 inches	Volume: 51.20 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3650.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3625.00	
Hydraulic tool	5.00			3630.00	
Isolator Sub	3.00			3633.00	
Jars	5.00			3638.00	
Safety Joint	3.00			3641.00	
Packer	5.00			3646.00	30.00 Bottom Of Top Packer
Packer	4.00			3650.00	
Stubb	1.00			3651.00	
Perforations	2.00			3653.00	
Recorder	0.00	6752	Inside	3653.00	
Recorder	0.00	6751	Outside	3653.00	
Pickup sub perf	5.00			3658.00	
Perforations	29.00			3687.00	
Change Over Sub	1.00			3688.00	
Drill Pipe	32.00			3720.00	
Change Over Sub	1.00			3721.00	
Bullnose	3.00			3724.00	74.00 Bottom Packers & Anchor
Total Tool Length:	104.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.

3-22s-13w Stafford,KS

P.O. Box 252
Great Bend, KS 67530

Fischer Unit #1

Job Ticket: 70590

DST#: 4

ATTN: Jim Musgrove

Test Start: 2023.02.15 @ 11:42:00

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:

26000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 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
756.00	GOCMW 10%G,15%O,45%W,30%M	10.605
945.00	GMOCW 5%G,10%O,80%W,5%M	13.256

Total Length: 1701.00 ft Total Volume: 23.861 bbl

Num Fluid Samples: 0

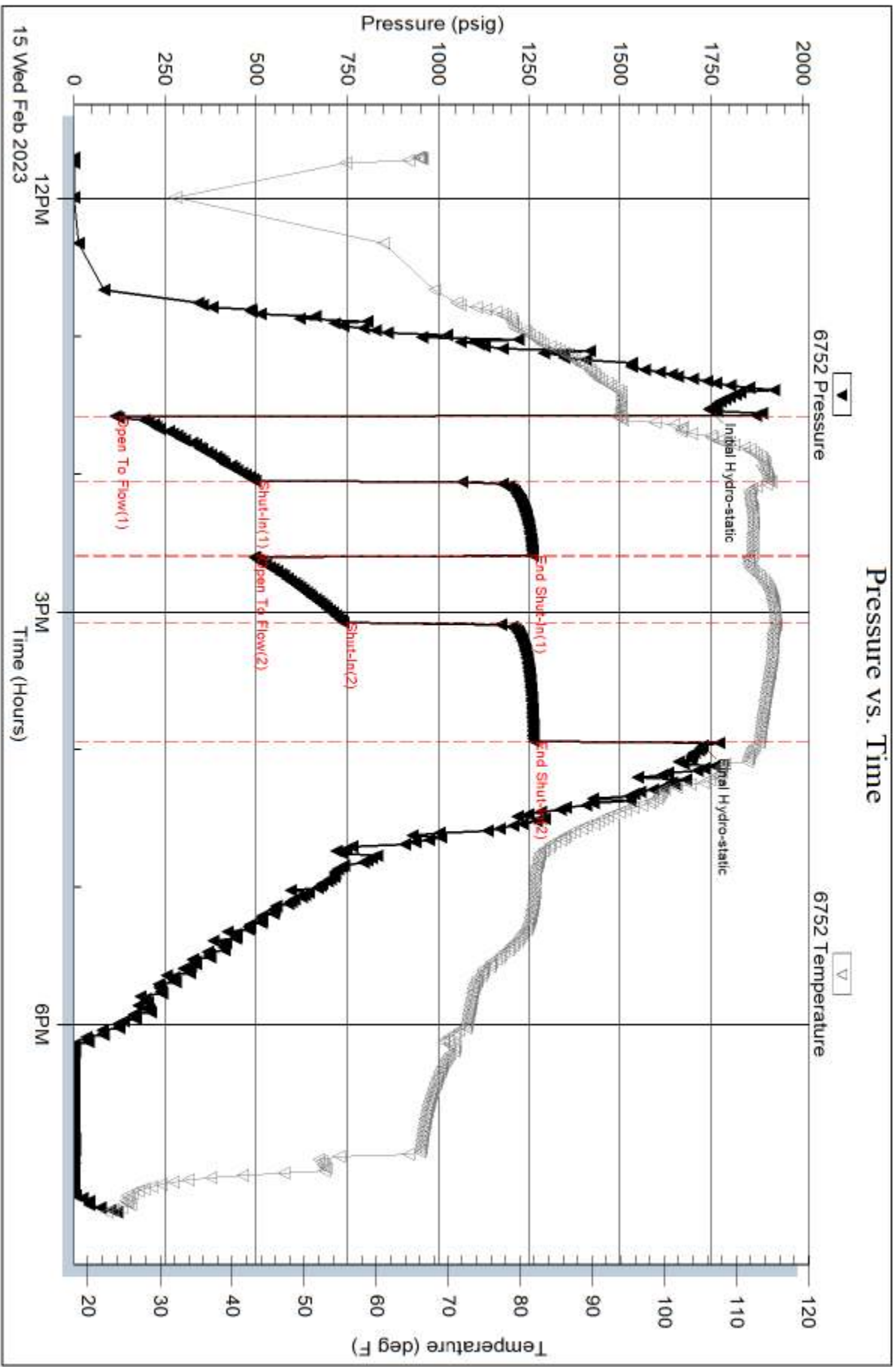
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.505@37F=26000 ppm

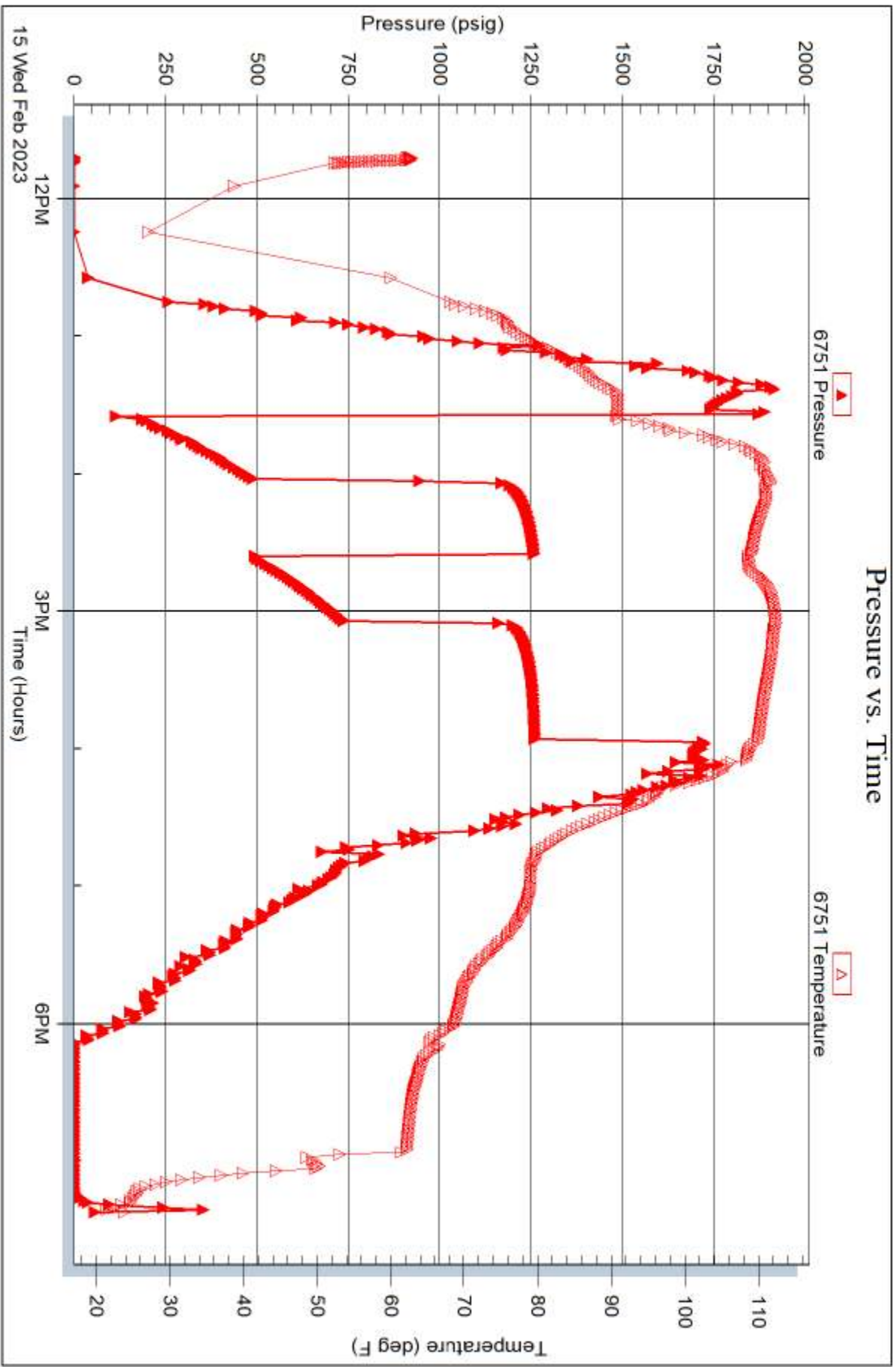


Serial #: 6751

Outside Charter Energy, Inc.

Fischer Unit #1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

TEST TICKET

NO. 70588

Well Name & No. Fischer Unit #1 Test No. 1 Date 2-13-23
 Company Chatter Energy, Inc. Elevation 1882 KB 1895 GL
 Address P.O. Box 252 Great Bend, KS 67530
 Co. Rep / Geo Jim Musgrove Rig Southwind
 Location: Sec. 3 Twp 22 Rge. 13 Co. Stafford State KS

Interval Tested 3404-3469 Zone Tested Leasing A-D-E
 Anchor Length 65' Drill Pipe Run 3394 Mud Wt. 9.1
 Top Packer Depth 3399 Drill Collars Run Ø Vis 49
 Bottom Packer Depth 3404 Wt. Pipe Run N.A. WL 9.0
 Total Depth 3469 Chlorides 5500 ppm System LCM 2nd

Blow Description TF: 30 min, BOB 3 min, strong building blow, 27 inches
TST: 30 min, no blow back
FP: 45 min, BOB 24 min, strong building blow, 15 inches
FSP: 60 min, no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>116</u>	<u>Oil spotted muddy water</u>	<u>spot</u>	<u>70</u>	<u>30</u>	<u></u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>126' LSP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 116 BHT 105 Gravity _____ API RW .205 @ 62 °F Chlorides 41,000 ppm
 Initial Hydrostatic 1596 Test CONV. ¹⁸⁰⁰ Ruined Shale Packer _____
 Initial Flow 25 to 48 Jars 300 Ruined Packer _____
 Initial Shut-In 327 Circ Sub _____ Hotel _____
 Final Flow 61 to 81 Hourly Standby _____ EM Tool Successful good
 Final Shut-In 337 Mileage 70 ^{122.50} Accessibility _____
 Final Hydrostatic 1573 Sampler _____ Gas Sample _____
 T- On Location 1300 Straddle _____ Oversized Hole _____
 Initial Flow 30 T-Started 1600 Shale Packer _____ Sub Total 0
 Initial Shut-In 30 T-Open 1815 Extra Packer _____ Total 2222.50
 Final Flow 45 T-Pulled 2100 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 60 T-Out 2300 Day Standby _____ MP/DST Disc't _____
 Comments bits @ 1540

Approved By _____ Our Representative Chris Hagen

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made. 785-656-3947



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70589

Well Name & No. Fischer Unit #1 Test No. 2 Date 2-14-23
 Company Charter Energy, Inc. Elevation 1895 KB 1882 GL
 Address P.O. Box 252 Greed Bend, KS 67530
 Co. Rep / Geo Jim Musgrave Rig Southwind
 Location: Sec. 3 Twp 22 Rge. 13 Co. Stafford State KS

Interval Tested 3468-3554 Zone Tested Lansing H-K
 Anchor Length 86' Drill Pipe Run 3458 Mud Wt. 9.1
 Top Packer Depth 3468 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 3463 Wt. Pipe Run N.A. WL 9.0
 Total Depth 3554 Chlorides 5500 ppm System LCM 2#

Blow Description IF: 30 min., fair building blow, 3 inches
ISL: 30 min., no blow back
FF: 45 min., fair building blow, 3 inches
PSL: 45 min., no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>oil spotted mud</u>	<u>Sp=0</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 98 Gravity _____ API RW _____ @ _____ *F Chlorides _____ ppm
 Initial Hydrostatic 1620 Test conv. ¹⁸⁰⁰ Ruined Shale Packer _____
 Initial Flow 22 to 28 Jars 300 Ruined Packer _____
 Initial Shut-In 401 Circ Sub _____ Hotel _____
 Final Flow 25 to 37 Hourly Standby _____ EM Tool Successful OK -175
 Final Shut-In 414 Mileage x 70 ^{122.50} Accessibility _____
 Final Hydrostatic 1601 Sampler _____ Gas Sample _____
 T-On Location 0930 Straddle _____ Oversized Hole _____
 Initial Flow 30 T-Started 1000 Shale Packer _____ Sub Total -175
 Initial Shut-In 30 T-Open 1125 Extra Packer _____ Total 2047.50
 Final Flow 45 T-Pulled 1355 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 45 T-Out 1530 Day Standby _____ MP/DST Disc't _____
 Comments bats on @ 0949

Approved By _____ Our Representative Chris Hagren

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70590

Well Name & No. Fischer Unit #1 Test No. 3 Date 2-15-23
 Company Charter Energy, Inc. Elevation 1895 KB 1882 GL
 Address P.O. Box 252 Great Bend, KS 67530
 Co. Rep / Geo Jim Musglove Rig Southwind
 Location: Sec. 3 Twp 22 Rge. 13 Co. Stafford State KS

Interval Tested 3648-3719 Zone Tested Arbuckle
 Anchor Length 71' Drill Pipe Run 3650 Mud Wt. 9.4
 Top Packer Depth ~~3643~~ 3643 Drill Collars Run 0 Vis 517
 Bottom Packer Depth 3648 Wt. Pipe Run 12.1 WL 9.6
 Total Depth 3719 Chlorides 9500 ppm System LCM 1#

Blow Description IF: 30 min., fair building blow, 4.4 inches
ISP: 30 min., no blow back
EF: 45 min., BOB 42 min., strong building blow, 13 inches
FSD: 45 min., no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>oil cut gassy mud</u>	<u>5</u>	<u>5</u>	<u>90</u>	<u></u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>63' GSP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 35 BHT 104 Gravity _____ API RW _____ @ _____ *F Chlorides _____ ppm
 Initial Hydrostatic 1791 Test CONV. ¹⁸⁰⁰ Ruined Shale Packer _____
 Initial Flow 25 to 25 Jars ³⁰⁰ Ruined Packer _____
 Initial Shut-In 220 Circ Sub _____ Hotel _____
 Final Flow 26 to 31 Hourly Standby _____ EM Tool Successful good -350
 Final Shut-In 907 Mileage X 170 ^{122.50} Accessibility _____
 Final Hydrostatic 1761 Sampler _____ Gas Sample _____

T- On Location 0830 Straddle _____ Oversized Hole _____
 Initial Flow 30 T-Started 0930 Shale Packer _____ Sub Total -350
 Initial Shut-In 30 T-Open 1120 Extra Packer _____ Total 1872.50
 Final Flow 45 T-Pulled 1350 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 45 T-Out 1630 Day Standby _____ MP/DST Disc't _____
 Comments bits @ 0909

Approved By _____ Our Representative Chris Hegran

TriLOBITE Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70591

Well Name & No. Fischer Unit #1 Test No. 4 Date 2-15-23
 Company Chatter Energy, Inc. Elevation 1895 KB 1882 GL
 Address P.O. Box 252 Great Bend, KS 67530
 Co. Rep / Geo Jim Musgrove Rig South Wind
 Location: Sec. 3 Twp 22 Rge. 13 Co. Stefford State KS

Interval Tested 3650-3724 Zone Tested Arbuckle
 Anchor Length 74' Drill Pipe Run 3650 Mud Wt. 9.4
 Top Packer Depth 3645 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3650 Wt. Pipe Run N.A. WL 9.6
 Total Depth 3724 Chlorides 9500 ppm System LCM 1#

Blow Description IF: 30 min., BOB 2.5 min, strong building blow, 121 inches
ISI: 30 min., no blow back
PF: 30 min., BOB 3 min, strong building blow, 100 inches
FSI: 45 min., blow back 3 min., 25 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>756</u>	<u>gassy oil cut muddy water</u>	<u>10</u>	<u>15</u>	<u>45</u>	<u>30</u>
<u>945</u>	<u>gassy oil cut muddy water</u>	<u>25</u>	<u>10</u>	<u>80</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1701 BHT _____ Gravity _____ API RW .505 @ 37. *F Chlorides 26000 ppm

Initial Hydrostatic 1744 Test conv. 1800 Ruined Shale Packer _____
 Initial Flow 113 to 498 Jars 300 Ruined Packer _____
 Initial Shut-In 1260 Circ Sub _____ Hotel _____
 Final Flow 495 to 739 Hourly Standby _____ EM Tool Successful good
 Final Shut-In 1263 Mileage x 70 122.50 Accessibility _____
 Final Hydrostatic 1726 Sampler _____ Gas Sample _____
 T- On Location 1100 Straddle _____ Oversized Hole _____
 Initial Flow 30 T-Started 1145 Shale Packer _____ Sub Total 0
 Initial Shut-In 30 T-Open 0140 Extra Packer _____ Total 2222.50
 Final Flow 30 T-Pulled 0400 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 45 T-Out 0800 Day Standby _____ MP/DST Disc't _____
 Comments cats @ 1142

Approved By _____ Our Representative Chris Rogers

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

OPERATOR

Company: Charter Energy Inc.
Address: PO Box 252
Great Bend, KS 67530-0252

Contact Geologist: Jim Musgrove
Contact Phone Nbr: 620-786-0839
Well Name: Fischer Unit #1
Location: 3-22s-13w NW-NW-NE-SE
API: 15-185-24134-00-00
Pool:
State: Kansas

Field: Gates
Country: USA



CHARTER ENERGY, INC.

P.O. BOX 252
GREAT BEND, KS 67530
(820) 793-9090



Scale 1:240 Imperial

Well Name: Fischer Unit #1
Surface Location: 3-22s-13w NW-NW-NE-SE
Bottom Location:
API: 15-185-24134-00-00
License Number: 9090
Spud Date: 2/9/2023 Time: 12:00 AM
Region: Stafford
Drilling Completed: 2/17/2023 Time: 12:00 AM
Surface Coordinates: 2452' FSL & 1047' FEL
Bottom Hole Coordinates:
Ground Elevation: 1882.00ft
K.B. Elevation: 1892.00ft
Logged Interval: 3100.00ft To: 3800.00ft
Total Depth: 3800.00ft
Formation: Arbuckle
Drilling Fluid Type: Chemical/Fresh Water Gel

CASING SUMMARY

	Surface	Intermediate	Main		
Bit Size					
Hole Size					
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8 5/8" in	430' ft			
Int Casing					
Prod Casing	5 1/2" in	3797 ft			

CASING SEQUENCE

Type	Hole Size	Casing Size	At
	0.00 in	0.00	0.00 ft

OPEN HOLE LOGS

Logging Company: ELI
Logging Engineer: Jeff Luebbers
Truck #:
Logging Date: Time Spent:
Logs Run: 0 # Logs Run Successful: 0

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
	0.00ft	0.00ft	0.00		0

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
12/5/2007	0.00ft	0.00ft	

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 2452' FSL
 E/W Co-ord: 1047' FEL

LOGGED BY



Company: James C Musgrove Petroleum LLC
 Address: 212 Main Street/PO Box 215
 Claflin, KS 67525

Phone Nbr: 620-588-4250 620-786-0839
 Logged By: KLG #307

Name: James C Musgrove

CONTRACTOR

Contractor: Southwind
 Rig #: 1
 Rig Type: mud rotary
 Spud Date: 2/9/2023
 TD Date: 2/17/2023
 Rig Release:

Time: 12:00 AM
 Time: 12:00 AM
 Time:

ELEVATIONS

K.B. Elevation: 1892.00ft
 K.B. to Ground: 10.00ft
 Ground Elevation: 1882.00ft

NOTES

Remarks;

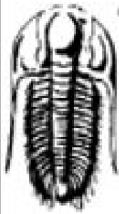
5 1/2' productions casing was set and cemented on the Charter Energy Inc.; Fischer Unit #1.

Respectfully Submitted,

James C Musgrove
 Petroleum Geologist

well comparison sheet

	FISCHER UNIT #1 CHARTER ENERGY CORP NW-NW-NE-SE 3-22s-13w				KISNER 'B' #1 POOR BOY CORP SW-SE-NE 3-22s-13w				KISNER 'B' TOKLAN PRODUCTION NE-NE-SE 3-22s-13w			
	1892 KB				1888 KB		Relationship		1885 KB		Structural Relationship	
Formation	Log	Sub-Sea	Sample	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	735	1157							724	1161		-4
Base Anhydrite	757	1135										
Heebner	3209	-1317			3213	-1325	8		3201	-1316		-1
Toronto	3228	-1336			3233	-1345	9					
Douglas	3244	-1352										
Brown Lime	3336	-1444							3329	-1444		0
Lansing	3354	-1462			3357	-1469	7		3349	-1464		2
Base Kansas City	3564	-1672			3624	-1736	64					
Viola	3616	-1724			3624	-1736	12		3617	-1732		8
Simpson Shale	3659	-1767			3670	-1782	15		3661	-1776		9
Arbuckle	3713	-1821			3719	-1831	10		3712	-1827		6
Rotary Total Depth	3800	-1908			3730	-1842		-66				
Log Total Depth	3800	-1908							3717	-1832		-76



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

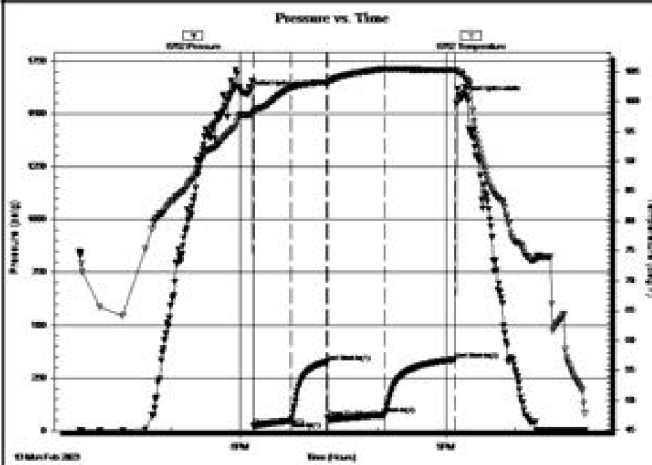
3/22/13
Fischer Unit 1
Job Ticket: 70588 **DST#: 1**
Test Start: 2023.02.13 @ 15:40:00

GENERAL INFORMATION:

Formation: **Lansing D-F**
Deviated: No Whipstock: 1895.00 ft (KB)
Time Tool Opened: 18:12:02
Time Test Ended: 23:02:02
Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 69
Interval: **3404.00 ft (KB) To 3469.00 ft (KB) (TVD)**
Reference Elevations: 1895.00 ft (KB)
Total Depth: 3469.00 ft (KB) (TVD) 1882.00 ft (CF)
Hole Diameter: 1882.00 inches Hole Condition: Good KB to GR/CF: 13.00 ft

Serial #: 6752 Inside
Press@RunDepth: 81.46 psig @ 3407.00 ft (KB) Capacity: psig
Start Date: 2023.02.13 End Date: 2023.02.13 Last Calib.: 1899.12.30
Start Time: 15:40:01 End Time: 23:02:02 Time On Btm: 2023.02.13 @ 18:07:32
Time Off Btm: 2023.02.13 @ 21:12:32

TEST COMMENT: IF: 30 min., BOB 3 min., strong building blow, 27 inches
IS: 30 min., no blow back
FF: 45 min., BOB 24 min., strong building blow, 15 inches
FS: 60 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1595.60	97.66	Initial Hydro-static
5	24.58	98.13	Open To Flow (1)
37	47.69	102.29	Shut-In(1)
69	326.60	103.14	End Shut-In(1)
69	60.50	103.12	Open To Flow (2)
119	81.46	105.38	Shut-In(2)
181	337.40	105.21	End Shut-In(2)
185	1572.92	104.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
116.00	oil spotted muddy w water 70%W,30%M	1.63

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

TriLOBITE Testing, Inc

Ref. No: 70588

Printed: 2023.02.14 @ 14:49:09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

3/22/13
Fischer Unit 1
Job Ticket: 70589 **DST#: 2**
Test Start: 2023.02.14 @ 09:49:00

GENERAL INFORMATION:

Formation: **Lansing H-K**

Deviated: No Whipstock: 1895.00 ft (KB)
 Time Tool Opened: 11:21:02
 Time Test Ended: 15:41:02

Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69

Interval: 3468.00 ft (KB) To 3554.00 ft (KB) (TVD)
 Total Depth: 3554.00 ft (KB) (TVD)
 Hole Diameter: 1882.00 inches Hole Condition: Good

Reference Elevations: 1895.00 ft (KB)
 1882.00 ft (CF)
 KB to GR/CF: 13.00 ft

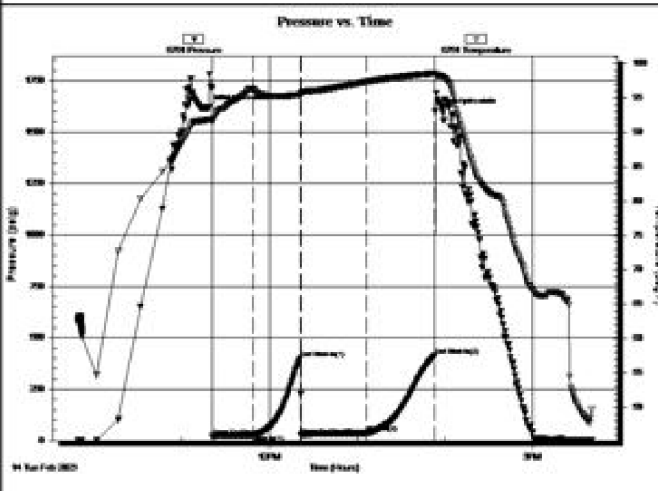
Serial #: 6751

Outside

Press@RunDepth: 37.23 psig @ 3471.00 ft (KB)
 Start Date: 2023.02.14 End Date:
 Start Time: 09:49:01 End Time:

Capacity: psig
 Last Calib.: 1899.12.30
 Time On Btm: 2023.02.14 @ 11:18:02
 Time Off Btm: 2023.02.14 @ 13:53:32

TEST COMMENT: IF: 30 min., fair building blow, 3 inches
 IS: 30 min., no blow back
 FF: 45 min., fair building blow, 3 inches
 FS: 45 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1619.61	91.80	Initial Hydro-static
3	21.50	91.60	Open To Flow (1)
31	28.42	96.22	Shut-in(1)
63	400.83	95.47	End Shut-in(1)
64	25.31	95.49	Open To Flow (2)
109	37.23	97.33	Shut-in(2)
155	413.83	98.57	End Shut-in(2)
156	1600.85	98.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	oil spotted mud 100%M	0.63

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 70589

Printed: 2023.02.14 @ 16:25:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy, Inc.

3/22/13

P.O. Box 252 Great Bend, KS
 67530

Fischer Unit 1

Job Ticket: 70590

DST#: 3

ATTN: Jim Musgrove

Test Start: 2023.02.15 @ 09:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: 1895.00 ft (KB)
 Time Tool Opened: 11:14:17
 Time Test Ended: 16:17:02

Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69

Interval: 3648.00 ft (KB) To 3719.00 ft (KB) (TVD)
 Total Depth: 3719.00 ft (KB) (TVD)
 Hole Diameter: 1882.00 inches Hole Condition: Good

Reference Elevations: 1895.00 ft (KB)
 1882.00 ft (CF)
 KB to GR/CF: 13.00 ft

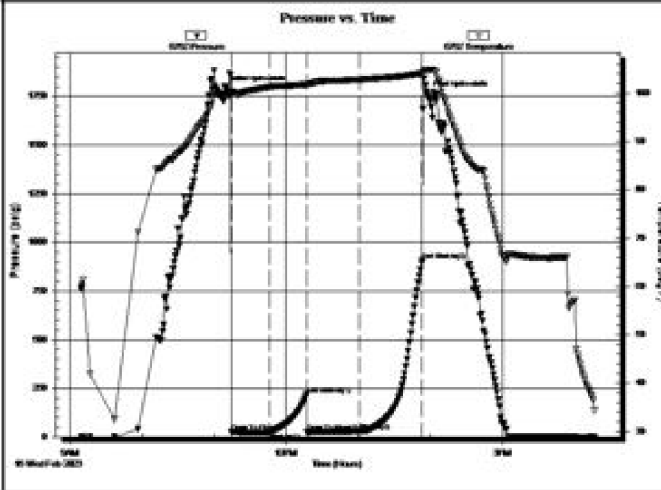
Serial #: 6752

Inside

Press@RunDepth: 30.59 psig @ 3651.00 ft (KB)
 Start Date: 2023.02.15 End Date:
 Start Time: 09:09:01 End Time:

Capacity: psig
 Last Calib.: 1899.12.30
 Time On Btm: 2023.02.15 @ 11:09:17

TEST COMMENT: IF: 30 min., fair building blow, 4.4 inches
 FS: 30 min., no blow back
 FF: 45 min., BOB 42 min., strong building blow, 13 inches
 FSt: 45 min., no blow back



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.06	99.96	Initial Hydro-static
6	25.19	99.92	Open To Flow (1)
37	24.67	101.22	Shut-In(1)
68	220.34	101.80	End Shut-In(1)
69	26.08	101.82	Open To Flow (2)
112	30.59	102.76	Shut-In(2)
165	906.91	104.08	End Shut-In(2)
168	1760.56	104.87	Final Hydro-static

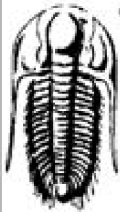
Length (ft)	Description	Volume (bbl)
35.00	oil cut gassy mud 5%G,5%O,90%M	0.49

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

Trilobite Testing, Inc

Ref. No: 70590

Printed: 2023.02.15 @ 17:05:06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

3/22/13
Fischer Unit 1
 Job Ticket: 70590 **DST#: 4**
 Test Start: 2023.02.15 @ 11:42:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: 1895.00 ft (KB)
 Time Tool Opened: 13:34:47
 Time Test Ended: 19:22:02
 Interval: **3650.00 ft (KB) To 3724.00 ft (KB) (TVD)**
 Total Depth: 3724.00 ft (KB) (TVD)
 Hole Diameter: 1882.00 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 1895.00 ft (KB)
 1882.00 ft (CF)
 KB to GRVCF: 13.00 ft

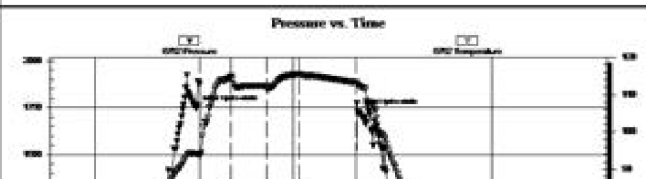
Serial #: 6752

Inside

Press@RunDepth: 739.34 psig @ 3653.00 ft (KB)
 Start Date: 2023.02.15 End Date: 2023.02.15
 Start Time: 11:42:01 End Time: 19:22:02

Capacity: psig
 Last Calib.: 1899.12.30
 Time On Btm: 2023.02.15 @ 13:31:47
 Time Off Btm: 2023.02.15 @ 15:58:17

TEST COMMENT: IF: 30 min., BOB 2.5 min., strong building blow, 121 inches
 IS: 30 min., no blow back
 FF: 30 min., BOB 3 min., strong building blow, 100 inches
 FSt: 45 min., blow back 3 min., 25 inches



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1744.41	94.06	Initial Hydro-static
3	113.60	93.40	Open To Flow (1)
31	497.56	114.60	Shut-In(1)



64	1260.33	112.20	End Shut-In(1)
64	494.62	111.67	Open To Flow (2)
93	739.34	115.45	Shut-In(2)
145	1262.81	113.22	End Shut-In(2)
147	1726.43	112.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
756.00	GOCMW 10%G, 15%O, 45%W, 30%M	10.60
945.00	GMOCW 5%G, 10%O, 80%W, 5%M	13.26

Gas Rates

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

Triobite Testing, Inc

Ref. No: 70590

Printed: 2023.02.16 @ 09:03:26

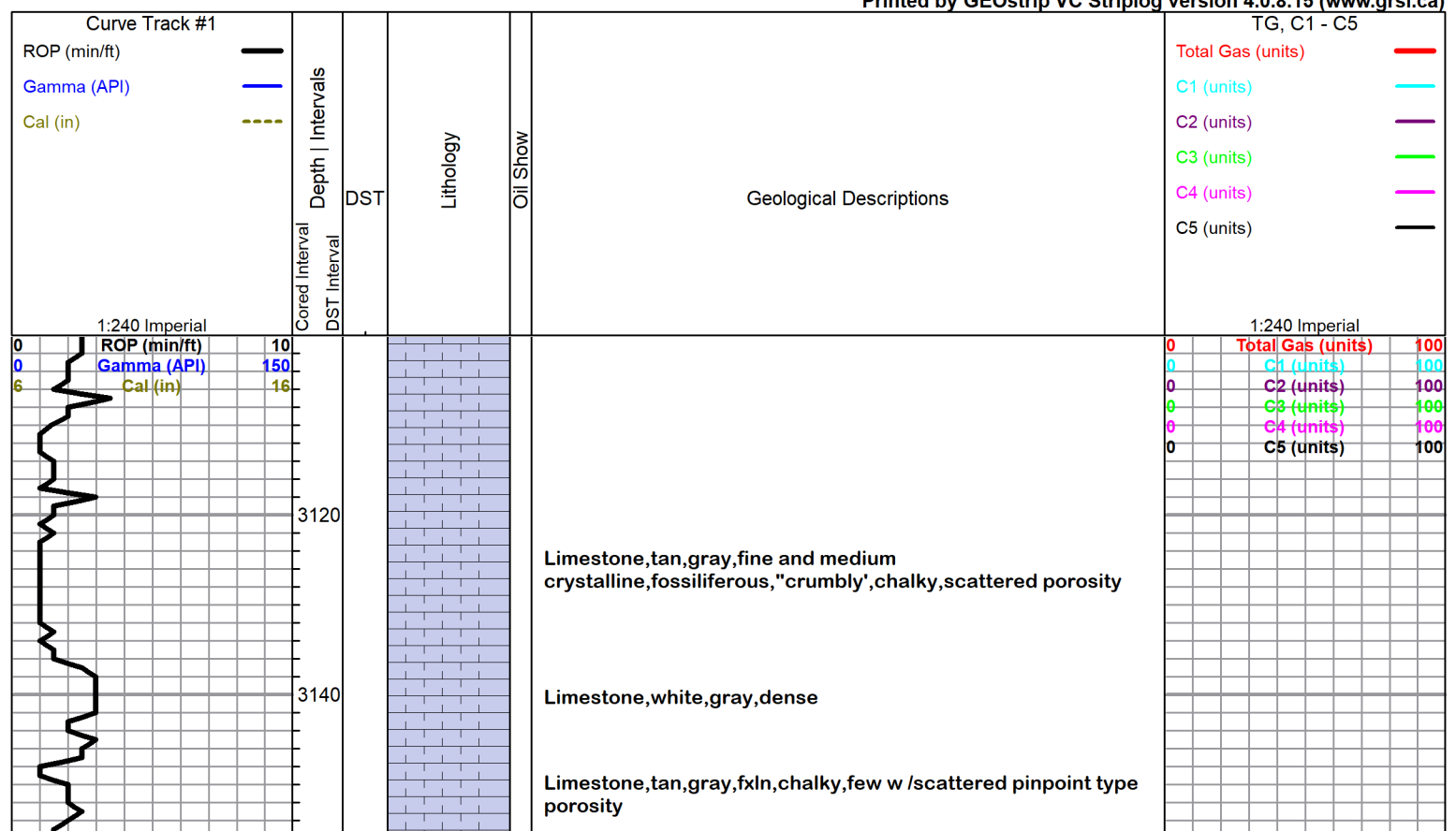
ROCK TYPES

	Cht		Dolprim		shale, grn		shale, red
	Cht vari		sdylmst		shale, gry		Ss
	Clystcol		Lmst fw7>		Carbon Sh		Slst

OTHER SYMBOLS

INTERVALS	Oil Show	DST
■ Core	● Good Show	■ DST Int
· DST	● Fair Show	■ DST alt
	● Poor Show	■ Core
	○ Spotted or Trace	tail pipe
	○ Questionable Stn	
	D Dead Oil Stn	
	■ Fluorescence	
	* Gas	

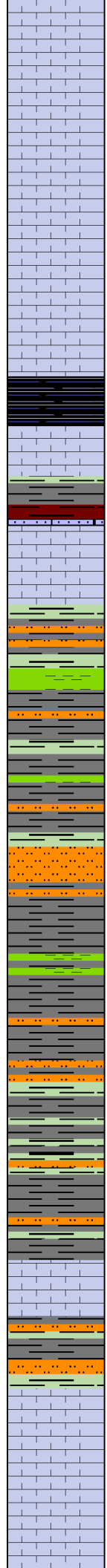
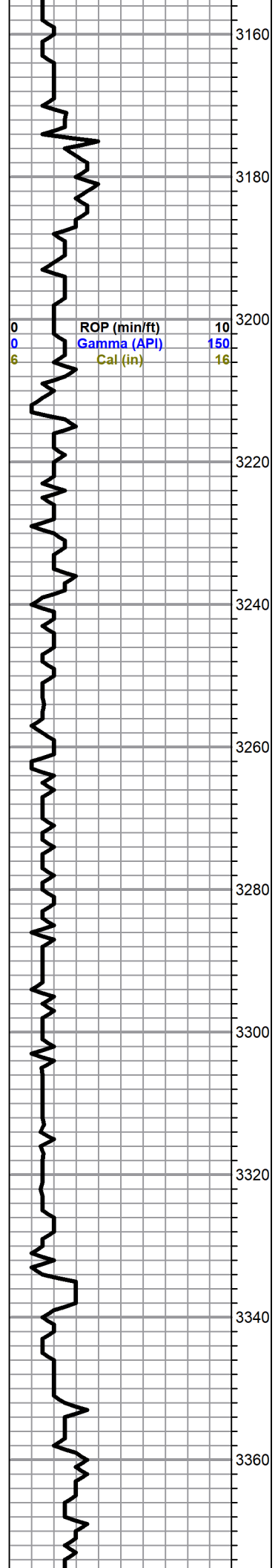
Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)



Limestone, tan, gray, fine and medium crystalline, fossiliferous, "crumbly", chalky, scattered porosity

Limestone, white, gray, dense

Limestone, tan, gray, fxl, chalky, few w /scattered pinpoint type porosity



Limestone,tan,gray,slightly cherty,dense

as above with,white and gray Chert

HEEBNER 3208(-1316)

Shale,black,carbonaceous,splintery

Limestone,gray,dark gray,dense,trace pyrite inclusions

Shale,gray,grayish green,soft

TORONTO 3227(1335)

Limestone,white,gray,fxln,few granular,chalky with white chalk

DOUGLAS 3240(-1348)

Shale,gray,grayish green,rusty brown,silty

ditto as above

Shale,gray,dark gray,silty

as above

as above

BROWN LIME 3335(-1443)

Limestone,tan/brown,fxln,slightly cherty,dense

Shale,gray,grayish green,silty

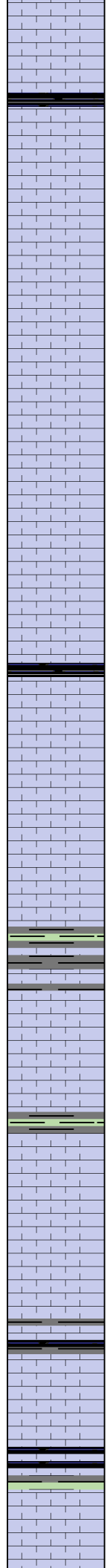
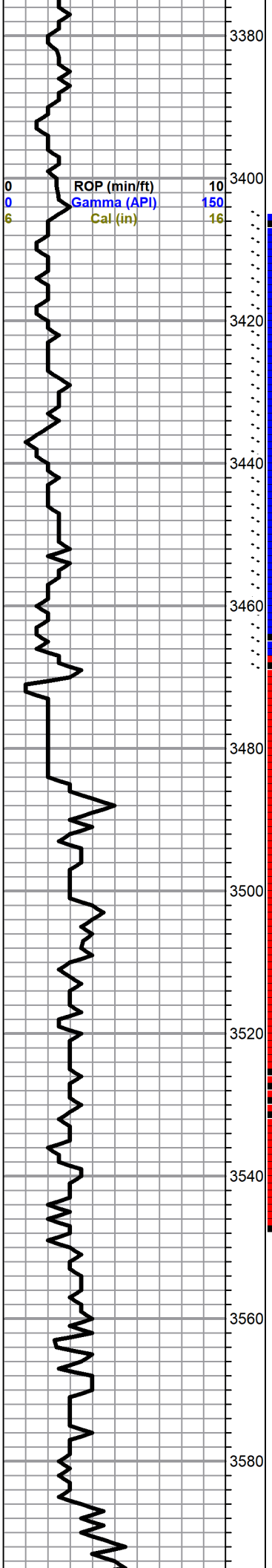
LANSING 3353(-1461)

Limestone,gray,white,fxln,fossiliferous in part,trace amber Chert,scattered porosity, trace spotted brown stain, no free oil and questionable odor

Limestone,white,gray,fossiliferous, chalky

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

Mud-Co Mud
chk
@ 3000 ft.
0000 hrs.
0/0/13
Vis. 50 Wt.
9.2
PV 18 YP 32
WL 11.2
Cake 1/32,
pH 9.0
CHL 6000
ppm
Ca 160 ppm
Sol 6.1 LCM
10#
DMC \$0
CMC \$0



Limestone, white, tan, oolitic, dense. poor visible porosity

Shale, gray, black

Limestone, tan, white, oolitic, fossiliferous, scattered porosity, trace brown and gray stain to black stain, no free oil and no odor

Limestone, tan, fxl, slightly cherty, trace spotted brown stain, trace of free oil and no odor

Limestone, tan, buff, subooidic, dark brown to black stain, trace of free oil (dead appearing), no odor

Limestone, as above

Limestone, gray, white, oolitic, slightly cherty, black to brown stain, trace of free oil and no odor

Limestone, gray, white, oolitic, slightly cherty, black and brown stain, trace of free oil and no odor

Shale, black

Limestone, gray, white, oomoidic, fair oomoidic porosity, brown and dark brown spotted stain, show of free oil and questionable odor

Limestone, white, gray, oolitic, scattered porosity, brown and black stain, trace of free oil and questionable odor

Shale, gray, green

Limestone, gray, white, oolitic, sub oomoidic, fair porosity, brown and gray to black stain, trace of free oil and no odor

Limestone, white, cream, gray, oolitic, chalky, trace brown, and light brown stain, show of free oil and no odor

Shale, black and gray, soft

Limestone, gray, tan, fossiliferous, chalky increasingly cherty, poor visible porosity.

Shale, maroon, green, gray, silty

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

DST#1 3404-3469
30-30-45-60

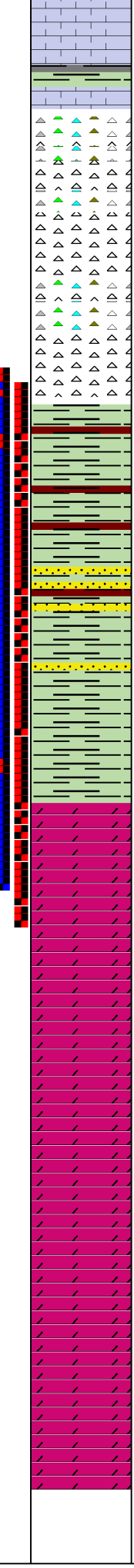
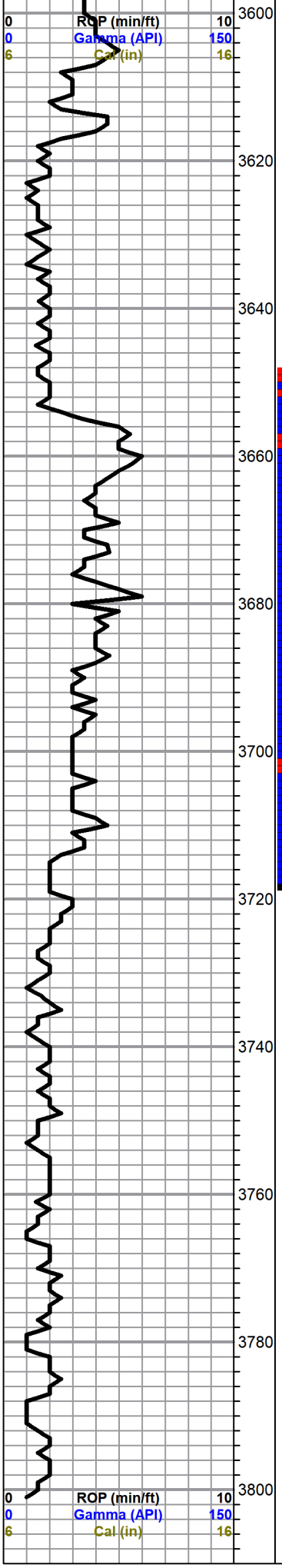
Blow, strong (bob 3 mins)
2nd open strong (bob 24 mins)

Recovery, 116' oil spotted muddy water
BHP 327-337psi
FP 25-48, 60-82 psi
HSH 1596-1573psi

DST#2 3468-3554
30-30-45-45

Blow, fair (3 inches)
2nd open, fair (3

Recovery 45' oil spotted mud
BHP 401-414 psi
FP 22-28, 25-27psi
HSH 1620-1607 psi



Chert,gray,boney, with red and green shales

Chert,amber,orange,white,boney

VIOLA 3617(-1729)

Chert,white,gray,amber,boney and opaque,trace black edge staining,no free oil and no odor

as above,semi tripolitic,scattered porosity,light brown and golden brown stain,trace of free oil and no odor

Chert as above

SIMPSON SHALE 3655(-1763)

Shale,maroon,olive green,blue green,sub waxey

Sand,white,clear,quartzic,sub rounded,well sorted,friable,brown and golden brown stain,trace of free oil and no odor

Shale,grayish green,olive green, blue green

ARBUCKLE 3714(-1822)

Dolomite,tan,white,fxln,sucrosic,fair pinpoint porosity,fair stain and saturation,fair show of free oil and good odor

Dolomite,tan,gray,fxln,oomodic,finely oomoldic,sucrosic,fair to good oomodic,and fair intercrystalline and vuggy type porosity,good golden brown stain and saturation,good show of free oil and good odor

Dolomite,gray,grayish pink,fxln,some medium crystalline,sucrosic in part,good intercrystalline porosity,good stain and saturation, good show of free oil and good odor

Dolomite,white,cream,fxln,sucrosic,fair intercrystalline porosity,gray to brown and black stain,trace of free oil and fair to good odor

as above decreasing shows with gray,boney Chert

as above

Dolomite,white,gray,fine and medium crystalline,good intercrystalline porosity,brown and black stain,show of free oil and fair odor

ROTARY TOTAL DEPTH 3800

