

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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FRANKS Oilfield Service, LLC

815 Main Street
Victoria, KS 67671

Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Email: franksoilfield@yahoo.com

Invoice

Date	Invoice #
10/15/2021	0424

Please Pay from this Invoice.
Remit Payment to:
815 Main Street
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949

Bill To
Canyon Opertaing, LLC P.O. Box 7117 Loveland, CO 80537-7117

County/State	Lease/Well#	Terms	Job Type
Graham County, KS	Bruton Hofstetter Un...	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	40	6.50	260.00
Ton Mileage (min.)		600.00	600.00
60/40 3%cal 2% gel	160	18.25	2,920.00T
Discount		-1,232.50	-1,232.50

Thank - You!

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.	Subtotal	\$3,697.50
We appreciate your business and look forward to serving you again!	Sales Tax (7.5%)	\$164.25
	Balance Due	\$3,861.75

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0424
 LOCATION Alexic 165
 FOREMAN Fennis Corduro

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-15-21	35571	Bruton Horstetter unit # 341	34	8S	22	W

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Canyon Operating LLC	101	Fennis		
		Tom W		

CITY	STATE	ZIP CODE
Loveland	CO	80537

JOB TYPE 8 5/8 surface HOLE SIZE 12 1/4 HOLE DEPTH 214 CASING SIZE & WEIGHT 8 5/8 23#
 CASING DEPTH 204.7 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 ppg SLURRY VOL 1.23 FT³/SK WATER gal/sk 5.5 W/SK CEMENT LEFT in CASING 2.0'
 DISPLACEMENT 12.3 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting Rig up equipment on Bruton Horstetter # 341
Casing set @ 204.7' + 9' landing joint.
Pump Fresh water space
Mix 160# 60/40 3% cc 2% gel 1/4# Flocal @ 14.8 ppg
Displace 12.3 bbls leaving 20 FT / 5.7% in casing
SD Circulated 15# to surface

Thank you For your Business From Fennis & Tom see you on the next one

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P0002	1	PUMP CHARGE	\$1150 ⁰⁰	\$1150 ⁰⁰
M001	40	MILEAGE	\$6 ⁵⁰	\$260 ⁰⁰
M002	7.24	Ton mileage delivery	\$600 ⁰⁰	\$600 ⁰⁰
C0014	160	60/40 3% cc 2% Gel 1/4# Flocal	\$18 ²⁵	\$2920
			sub total	\$4930 ⁰⁰
			less 25% disc.	\$1232 ⁵⁰
			sub total	\$3197 ⁵⁰
			SALES TAX	164.25
			ESTIMATED TOTAL	3861.75

AUTHORIZATION [Signature] TITLE _____ DATE 10-15-21

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

FRANKS Oilfield Service, LLC

815 Main Street
Victoria, KS 67671

Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Email: franksoilfield@yahoo.com

Invoice

Date	Invoice #
10/22/2021	0432

Please Pay from this Invoice.
Remit Payment to:
815 Main Street
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949

Bill To
Canyon Opertaing, LLC P.O. Box 7117 Loveland, CO 80537-7117

County/State	Lease/Well#	Terms	Job Type
Graham County, KS	Bruton Hofstetter 34-1	Net 30	PTA

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	35	6.50	227.50
Ton Mileage (min.)	1	600.00	600.00
60/40 4% gel 1/4# floseal	240	16.75	4,020.00T
Discount		-1,499.38	-1,499.38

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

Subtotal \$4,498.12

Sales Tax (7.5%) \$226.13

Balance Due \$4,724.25

We appreciate your business and look forward to serving you again!

FRANKS Oilfield Service

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 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0432
 LOCATION Hoyie
 FOREMAN Tam Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-22-21	35571	Bruton HoFetter 301-1	34	S 5	22W	Cochran

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Canyon Operating LLC	101	Tam W		
	#21103	Jack T		

CITY	STATE	ZIP CODE
Loveland	CO	80537

JOB TYPE rotary plug HOLE SIZE 7 7/8" HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4.5" TUBING _____ OTHER _____
 SLURRY WEIGHT 13.5 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting + rig up on STP drilling. Plug well as ordered
1st 1650' 50 5x
2nd 1050' 100 5x
3rd 300' 50 5x
4th center 10 5x
5th RH 30 5x
240 5x 60/40
 Thanks Tam & Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL002	1	PUMP CHARGE	\$1150.00	\$1150.00
MO01	.35	MILEAGE	\$650	\$227.50
MO02	10.68	Tam mileage delivery	\$600.00	\$600.00
CB010	24054	60/40 4% gel 1/4 # 310-sec1	\$16.75	\$4020.00
			sub total	\$5997.50
			less 25% disc.	\$1499.38
			sub total	\$4498.12
			SALES TAX	226.13
			ESTIMATED TOTAL	4724.25

AUTHORIZATION [Signature] TITLE _____ DATE _____

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Email: franksoilfield@yahoo.com

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Date	Invoice #
10/22/2021	0432

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Bill To
Canyon Opertaing, LLC P.O. Box 7117 Loveland, CO 80537-7117

County/State	Lease/Well#	Terms	Job Type
Graham County, KS	Bruton Hofstetter 34-1	Net 30	PTA

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	35	6.50	227.50
Ton Mileage (min.)	1	600.00	600.00
60/40 4% gel 1/4# floseal	240	16.75	4,020.00T
Discount		-1,499.38	-1,499.38

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Subtotal \$4,498.12

Sales Tax (7.5%) \$226.13

Balance Due \$4,724.25

We appreciate your business and look forward to serving you again!

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TICKET NUMBER 0432
 LOCATION Hoyie
 FOREMAN Tam Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-22-21	35571	Bruton HoFetter 301-1	34	S 5	22W	Cochran

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Canyon Operating LLC	101	Tam W		
	#21103	Jack T		

CITY	STATE	ZIP CODE
Loveland	CO	80537

JOB TYPE rotary plug HOLE SIZE 7 7/8" HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4.5" TUBING _____ OTHER _____
 SLURRY WEIGHT 13.5 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting + rig up on STP drilling. Plug well as ordered
1st 1650' 50 5x
2nd 1050' 100 5x
3rd 300' 50 5x
4th center 10 5x
5th RH 30 5x
240 5x 60/40
 Thanks Tam & Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL002	1	PUMP CHARGE	\$1150 ⁰⁰	\$1150 ⁰⁰
MO01	.35	MILEAGE	\$650	\$227 ⁵⁰
MO02	10.68	Tam mileage delivery	\$600 ⁰⁰	\$600 ⁰⁰
CB010	24054	60/40 4% gel 1/4 # 310-sec1	\$16 ⁷⁵	\$4020 ⁰⁰
			sub total	\$5997 ⁵⁰
			less 25% disc.	\$1499 ³⁸
			sub total	\$4498 ¹²
			SALES TAX	226.13
			ESTIMATED TOTAL	4724.25

AUTHORIZATION [Signature] TITLE _____ DATE _____

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Canyon Operating LLC
PO BOX 7117
Loveland CO 80537+7117
ATTN: Clayton Erickson

Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
Job Ticket: 68305 **DST#: 1**
Test Start: 2021.10.19 @ 14:15:00

GENERAL INFORMATION:

Formation: **Tor-LKC C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:56:07
Time Test Ended: 21:04:07
Interval: **3455.00 ft (KB) To 3545.00 ft (KB) (TVD)**
Total Depth: 3545.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer J Staab
Unit No: 84
Reference Elevations: 2255.00 ft (KB)
2248.00 ft (CF)
KB to GR/CF: 7.00 ft

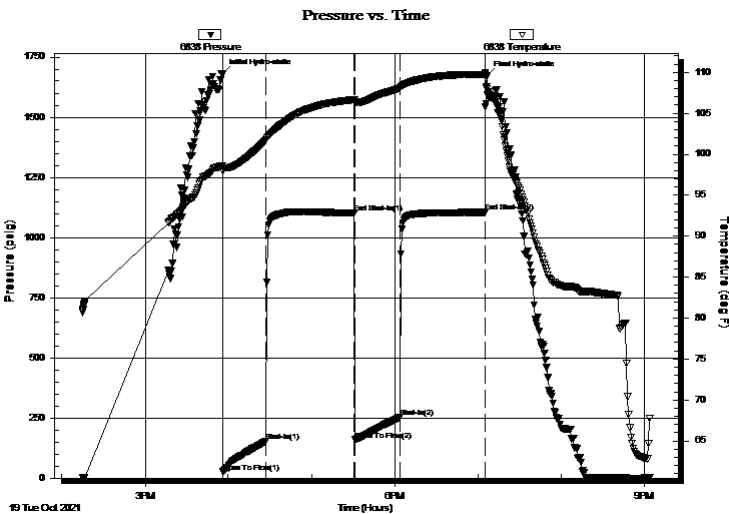
Serial #: 6838

Inside

Press@RunDepth: 253.28 psig @ 3458.00 ft (KB) Capacity: psig
Start Date: 2021.10.19 End Date: 2021.10.19 Last Calib.: 2021.10.19
Start Time: 14:15:01 End Time: 21:04:07 Time On Btm: 2021.10.19 @ 15:56:02
Time Off Btm: 2021.10.19 @ 19:06:22

TEST COMMENT: 30-IF-BOB 15 mins Built to 21.25"
60-ISI-No Return
30-FF-BOB 22 mins Built to 15.25"
60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.06	98.61	Initial Hydro-static
1	26.09	97.91	Open To Flow (1)
32	154.27	101.75	Shut-In(1)
95	1101.34	106.63	End Shut-In(1)
96	159.58	106.32	Open To Flow (2)
128	253.28	108.06	Shut-In(2)
190	1104.80	109.79	End Shut-In(2)
191	1671.03	107.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	MCW 10%M 90%W	5.98
5.00	Oil 100%O	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Canyon Operating LLC
 PO BOX 7117
 Loveland CO 80537+7117
 ATTN: Clayton Erickson

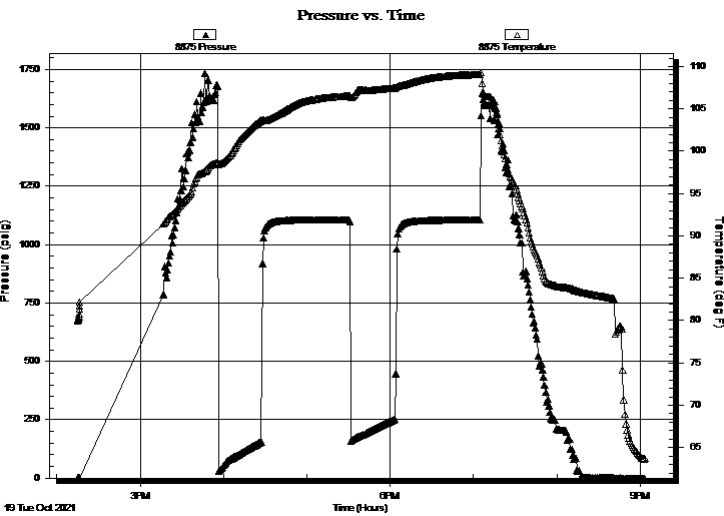
Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
 Job Ticket: 68305 **DST#: 1**
 Test Start: 2021.10.19 @ 14:15:00

GENERAL INFORMATION:

Formation: **Tor-LKC C**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:56:07
 Tester: Spencer J Staab
 Time Test Ended: 21:04:07
 Unit No: 84
Interval: 3455.00 ft (KB) To 3545.00 ft (KB) (TVD)
 Reference Elevations: 2255.00 ft (KB)
 Total Depth: 3545.00 ft (KB) (TVD) 2248.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8875 Inside
 Press@RunDepth: psig @ 3458.00 ft (KB) Capacity: psig
 Start Date: 2021.10.19 End Date: 2021.10.19 Last Calib.: 2021.10.19
 Start Time: 14:15:01 End Time: 21:03:27 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-BOB 15 mins Built to 21.25"
 60-ISI-No Return
 30-FF-BOB 22 mins Built to 15.25"
 60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
500.00	MCW 10%M 90%W	5.98
5.00	Oil 100%O	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Canyon Operating LLC
PO BOX 7117
Loveland CO 80537+7117
ATTN: Clayton Erickson

Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
Job Ticket: 68305 **DST#: 1**
Test Start: 2021.10.19 @ 14:15:00

Mud and Cushion Information

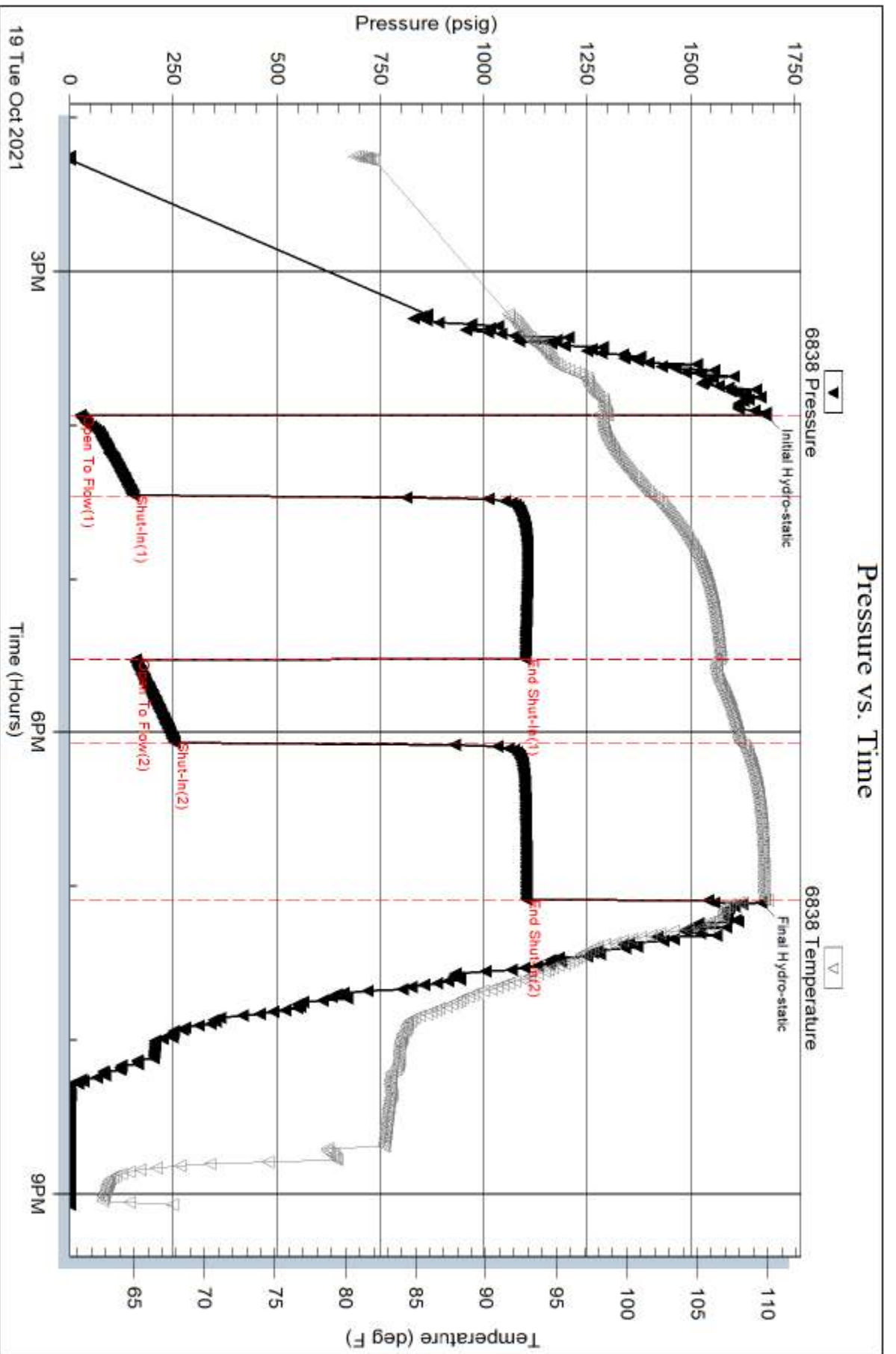
Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 17000 ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1700.00 ppm		
Filter Cake: inches		

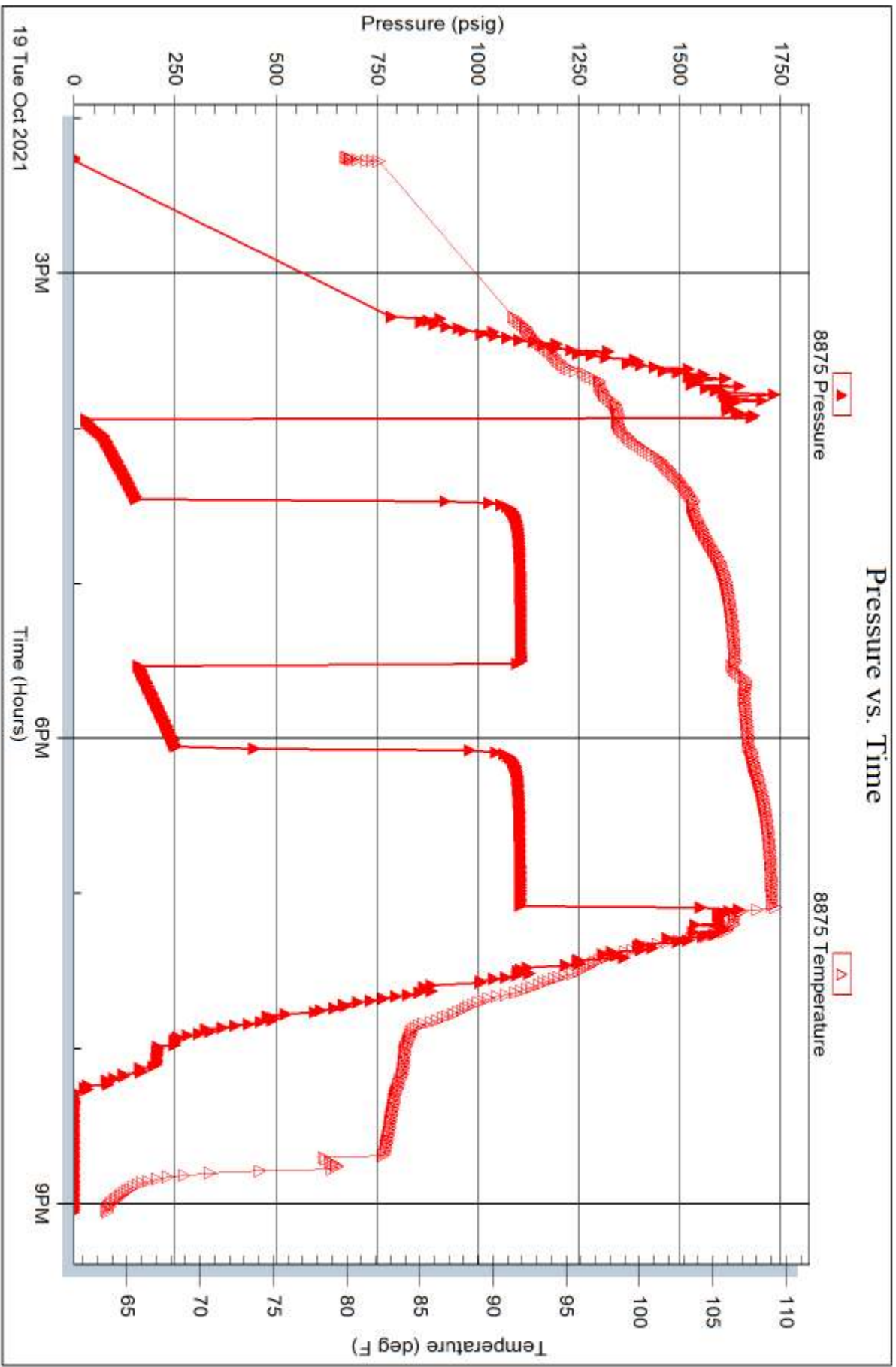
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	MCW 10%M 90%W	5.977
5.00	Oil 100%O	0.071

Total Length: 505.00 ft Total Volume: 6.048 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 1#LCM
 RW=.458@63F







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Canyon Operating LLC
 PO BOX 7117
 Loveland CO 80537+7117
 ATTN: Clayton Erickson

Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
 Job Ticket: 68306 **DST#: 2**
 Test Start: 2021.10.20 @ 06:25:00

GENERAL INFORMATION:

Formation: **LKC D-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:53:57
 Time Test Ended: 13:56:07
 Interval: **3548.00 ft (KB) To 3592.00 ft (KB) (TVD)**
 Total Depth: 3592.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2255.00 ft (KB)
 2248.00 ft (CF)
 KB to GR/CF: 7.00 ft

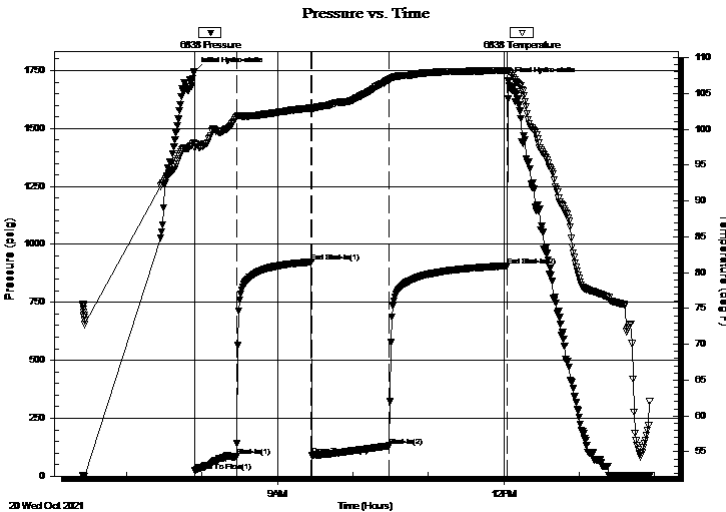
Serial #: 6838

Inside

Press@RunDepth: 130.74 psig @ 3551.00 ft (KB) Capacity: psig
 Start Date: 2021.10.20 End Date: 2021.10.20 Last Calib.: 2021.10.20
 Start Time: 06:25:01 End Time: 13:56:07 Time On Btm: 2021.10.20 @ 07:53:52
 Time Off Btm: 2021.10.20 @ 12:03:42

TEST COMMENT: 30-IF-Surface to 3.25"
 60-ISI-No Return
 60-FF-Surface to 4"
 90-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1746.40	98.15	Initial Hydro-static
1	22.71	97.35	Open To Flow (1)
34	84.40	101.74	Shut-In(1)
93	924.07	102.96	End Shut-In(1)
94	87.81	102.81	Open To Flow (2)
155	130.74	106.91	Shut-In(2)
249	907.28	108.21	End Shut-In(2)
250	1703.86	108.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 40%M 60%W	0.59
130.00	VSOCWM 2%O 18%W 80%M	1.84

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Canyon Operating LLC

Bruton Hofstetter Unit #34-1

PO BOX 7117
Loveland CO 80537+7117

34-8s-22w Graham KS

Job Ticket: 68306 **DST#: 2**

ATTN: Clayton Erickson

Test Start: 2021.10.20 @ 06:25:00

GENERAL INFORMATION:

Formation: **LKC D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:53:57

Time Test Ended: 13:56:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3548.00 ft (KB) To 3592.00 ft (KB) (TVD)

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3592.00 ft (KB) (TVD)

2248.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 3551.00 ft (KB)

Capacity: psig

Start Date: 2021.10.20 End Date: 2021.10.20

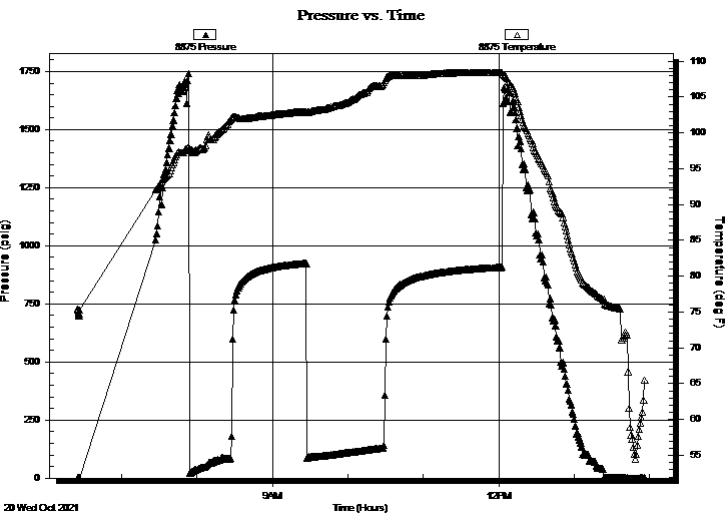
Last Calib.: 2021.10.20

Start Time: 06:25:01 End Time: 13:56:07

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Surface to 3.25"
60-ISI-No Return
60-FF-Surface to 4"
90-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 40%M 60%W	0.59
130.00	VSOCWM 2%O 18%W 80%M	1.84

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Canyon Operating LLC
PO BOX 7117
Loveland CO 80537+7117
ATTN: Clayton Erickson

Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
Job Ticket: 68306 **DST#: 2**
Test Start: 2021.10.20 @ 06:25:00

Mud and Cushion Information

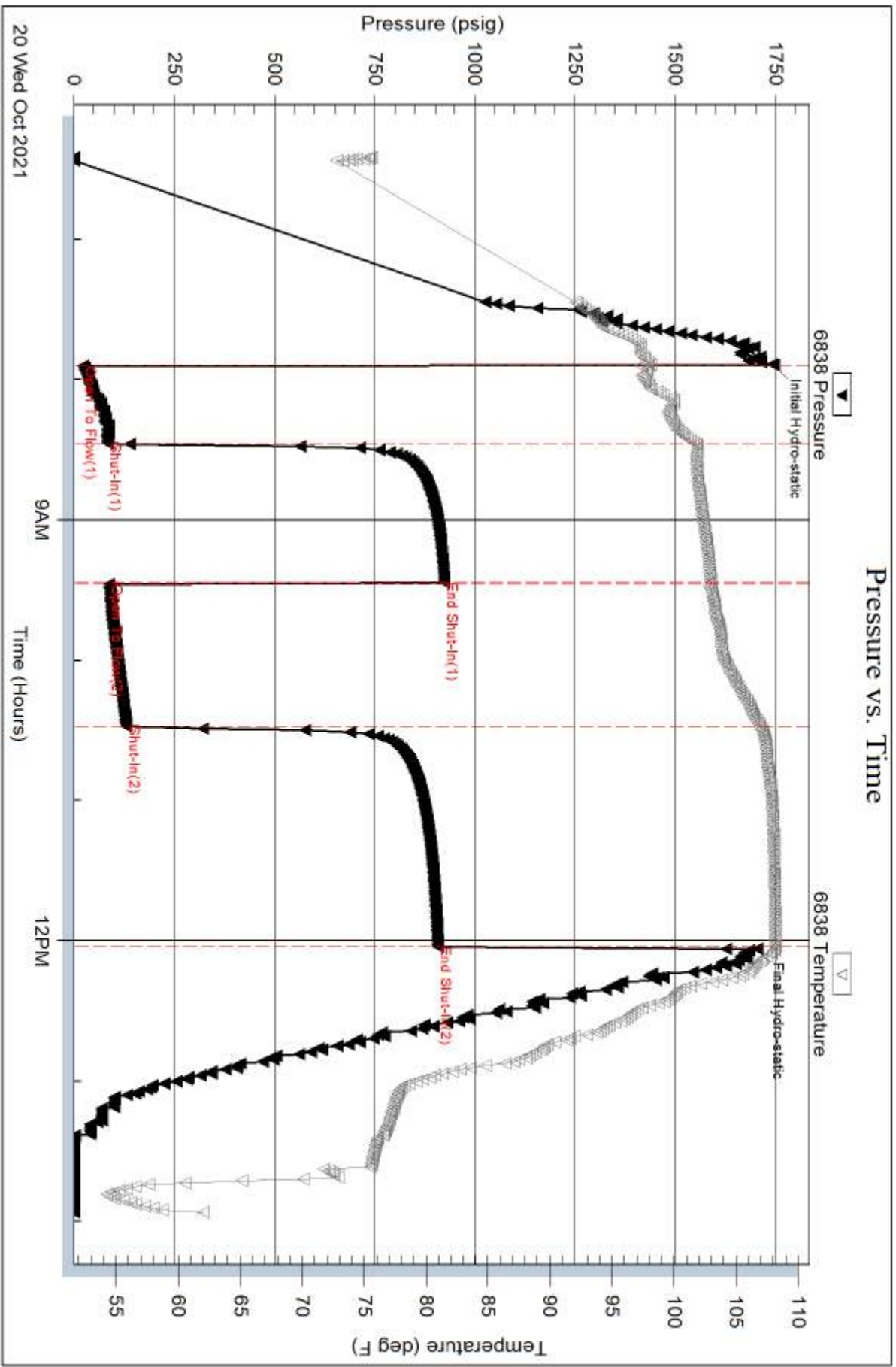
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	22500 ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 40%M 60%W	0.590
130.00	VSOCWM 2%O 18%W 80%M	1.843

Total Length: 250.00 ft Total Volume: 2.433 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 1#LCM
RW=.297@58F



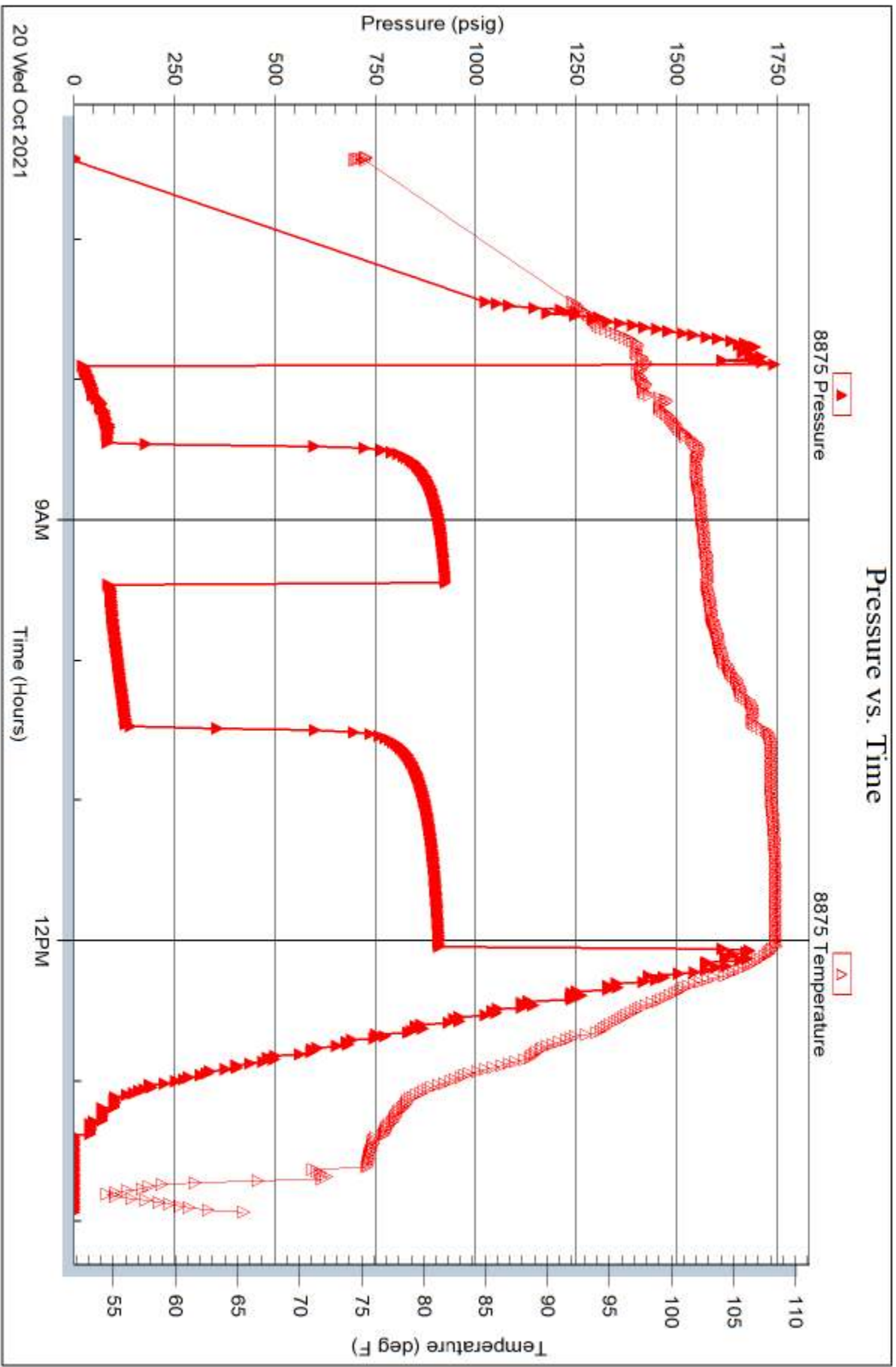
Serial #: 8875

Inside

Canyon Operating LLC

34-85-22w Graham KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68306

Printed: 2021.10.20 @ 14:41:08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Canyon Operating LLC
 PO BOX 7117
 Loveland CO 80537+7117
 ATTN: Clayton Erickson

Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
 Job Ticket: 68307 **DST#: 3**
 Test Start: 2021.10.20 @ 23:50:00

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:46:57
 Time Test Ended: 06:39:47
 Interval: **3617.00 ft (KB) To 3681.00 ft (KB) (TVD)**
 Total Depth: 3681.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2255.00 ft (KB)
 2248.00 ft (CF)
 KB to GR/CF: 7.00 ft

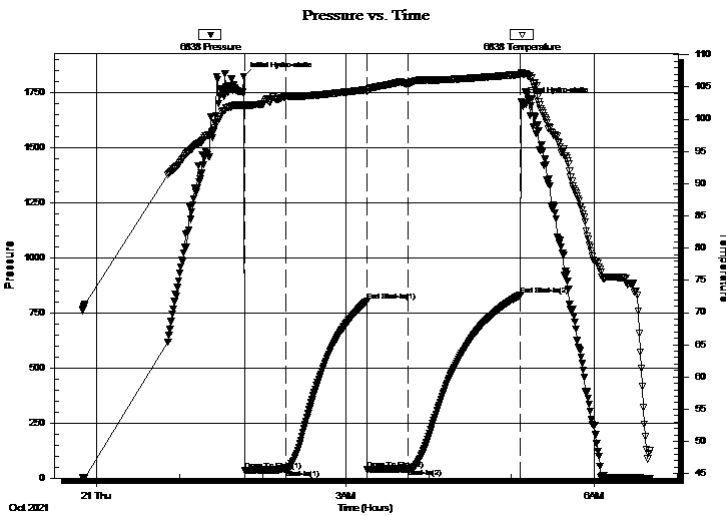
Serial #: 6838

Inside

Press@RunDepth: 42.38 psig @ 3620.00 ft (KB) Capacity: psig
 Start Date: 2021.10.20 End Date: 2021.10.21 Last Calib.: 2021.10.21
 Start Time: 23:50:01 End Time: 06:39:47 Time On Btm: 2021.10.21 @ 01:46:42
 Time Off Btm: 2021.10.21 @ 05:07:02

TEST COMMENT: 30-IF-Surface to 1/2"
 60-ISI-No Return
 30-FF-Surface Blow
 60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1821.49	102.16	Initial Hydro-static
1	36.39	101.81	Open To Flow (1)
31	38.46	103.54	Shut-In(1)
89	802.34	104.56	End Shut-In(1)
89	39.94	104.34	Open To Flow (2)
119	42.38	105.54	Shut-In(2)
200	830.44	106.95	End Shut-In(2)
201	1708.04	107.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Md 100%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Canyon Operating LLC
PO BOX 7117
Loveland CO 80537+7117
ATTN: Clayton Erickson

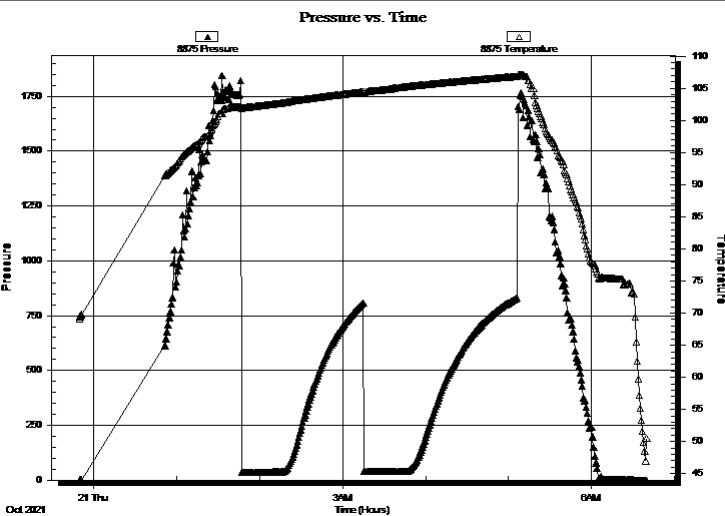
Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
Job Ticket: 68307 **DST#: 3**
Test Start: 2021.10.20 @ 23:50:00

GENERAL INFORMATION:

Formation: LKC H-J			Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:	ft (KB)		Tester: Spencer J Staab
Time Tool Opened: 01:46:57			Unit No: 84
Time Test Ended: 06:39:47			Reference Elevations: 2255.00 ft (KB)
Interval: 3617.00 ft (KB) To 3681.00 ft (KB) (TVD)			2248.00 ft (CF)
Total Depth: 3681.00 ft (KB) (TVD)			KB to GR/CF: 7.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair		

Serial #: 8875	Inside				
Press@RunDepth: psig @	3620.00 ft (KB)	Capacity:		psig	
Start Date: 2021.10.20	End Date: 2021.10.21	Last Calib.:	2021.10.21		
Start Time: 23:50:01	End Time: 06:39:47	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: 30-IF-Surface to 1/2"
60-ISI-No Return
30-FF-Surface Blow
60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Md 100%M	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Canyon Operating LLC
PO BOX 7117
Loveland CO 80537+7117
ATTN: Clayton Erickson

Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
Job Ticket: 68307 **DST#: 3**
Test Start: 2021.10.20 @ 23:50:00

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: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

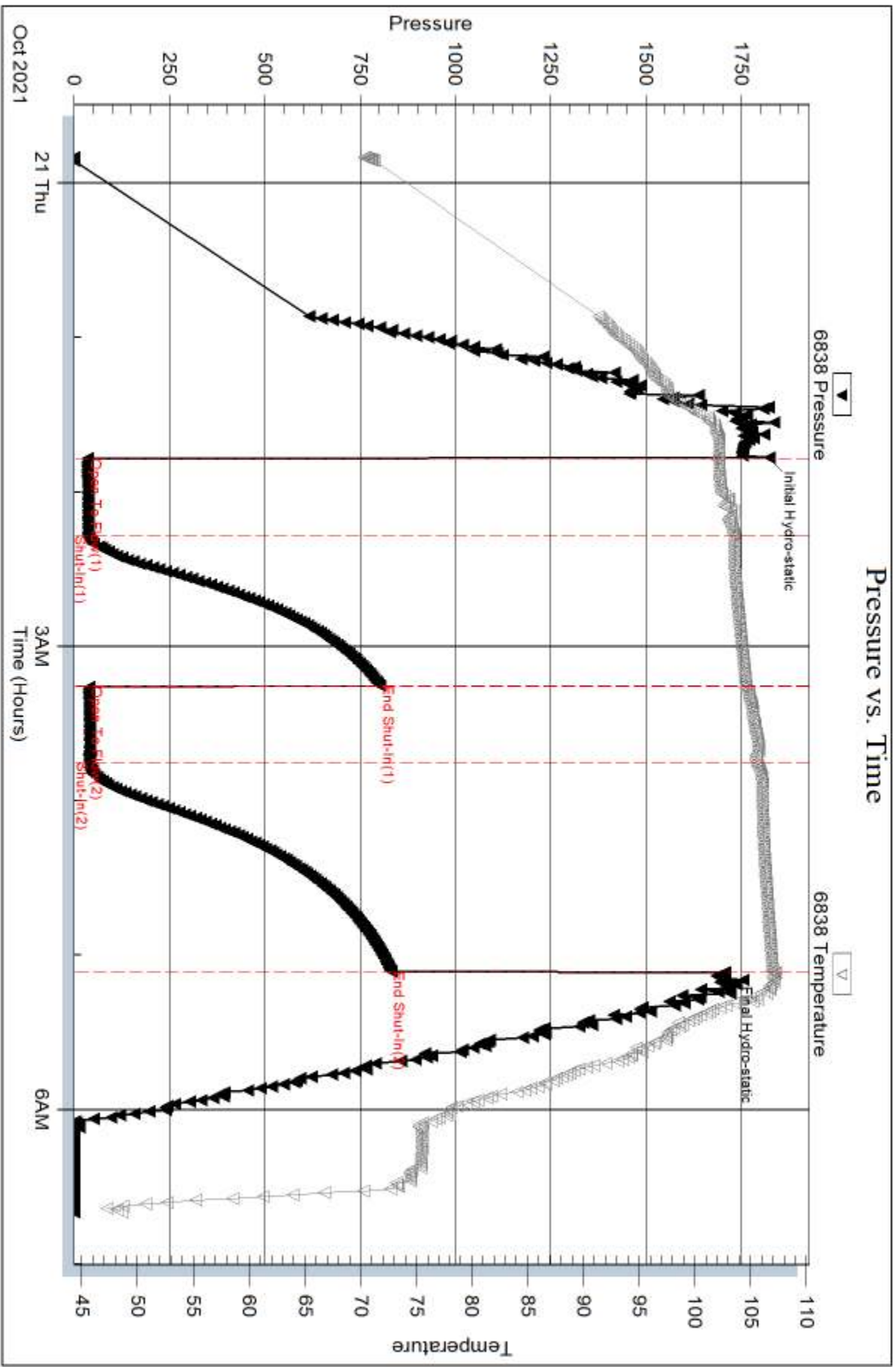
Length ft	Description	Volume bbl
5.00	Md 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 1#LCM



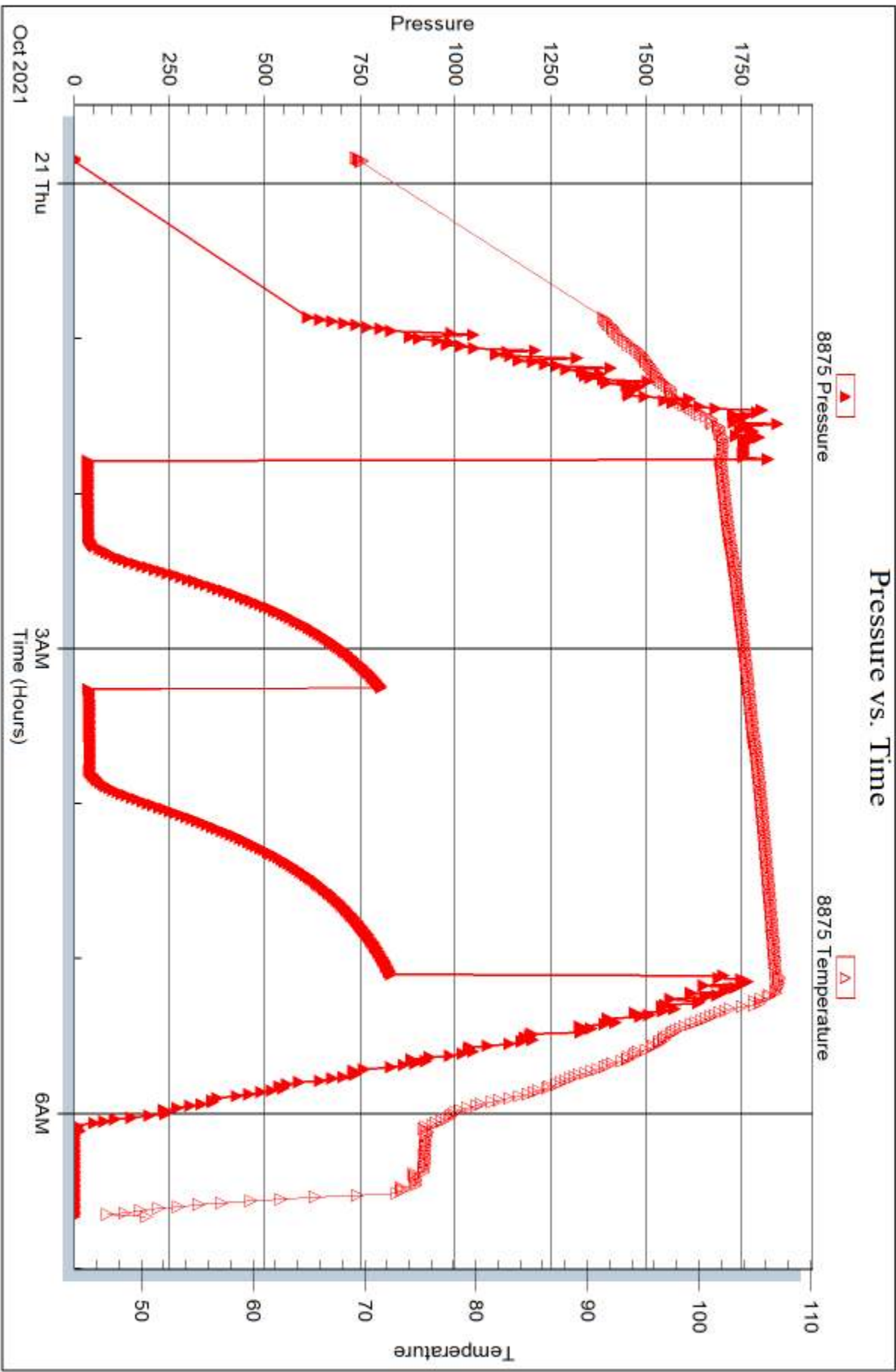
Serial #: 8875

Inside

Canyon Operating LLC

34-85-22w Graham KS

DST Test Number: 3





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Canyon Operating LLC
 PO BOX 7117
 Loveland CO 80537+7117
 ATTN: Clayton Erickson

Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
 Job Ticket: 68308 **DST#: 4**
 Test Start: 2021.10.21 @ 13:35:00

GENERAL INFORMATION:

Formation: **LKC K-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:09:22
 Time Test Ended: 19:53:32
 Interval: **3676.00 ft (KB) To 3716.00 ft (KB) (TVD)**
 Total Depth: 3716.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2255.00 ft (KB)
 2248.00 ft (CF)
 KB to GR/CF: 7.00 ft

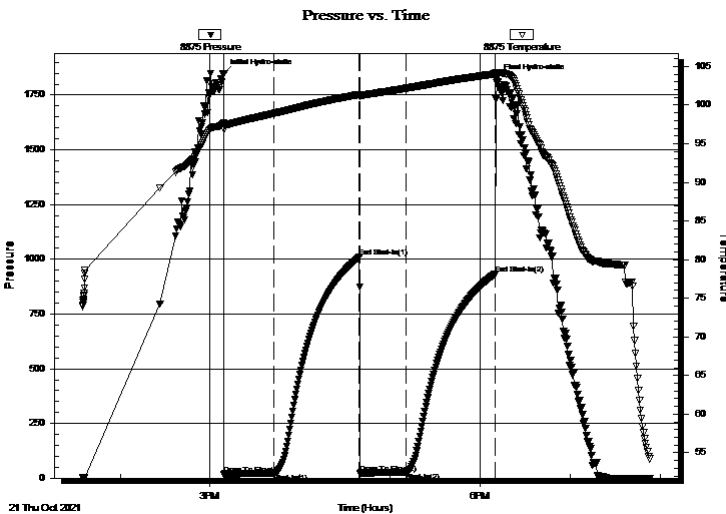
Serial #: 8875

Inside

Press@RunDepth: 25.34 psig @ 3679.00 ft (KB) Capacity: psig
 Start Date: 2021.10.21 End Date: 2021.10.21 Last Calib.: 2021.10.21
 Start Time: 13:35:01 End Time: 19:53:32 Time On Btm: 2021.10.21 @ 15:09:17
 Time Off Btm: 2021.10.21 @ 18:11:12

TEST COMMENT: 30-IF-Surface to 1/2" Died @ 25 min
 60-ISI-No Return
 30-FF-No Blow
 60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.27	97.64	Initial Hydro-static
1	18.38	96.86	Open To Flow (1)
34	22.08	98.91	Shut-In(1)
91	1009.57	101.35	End Shut-In(1)
91	22.81	101.11	Open To Flow (2)
122	25.34	102.17	Shut-In(2)
181	932.65	104.04	End Shut-In(2)
182	1827.23	104.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Canyon Operating LLC
 PO BOX 7117
 Loveland CO 80537+7117
 ATTN: Clayton Erickson

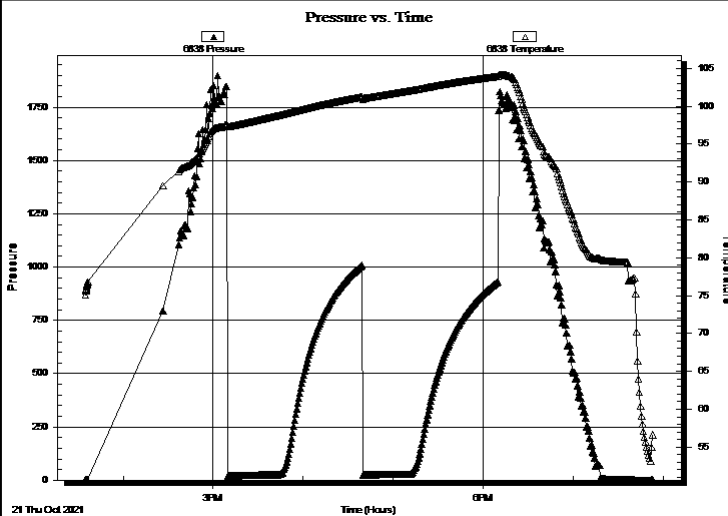
Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
 Job Ticket: 68308 **DST#: 4**
 Test Start: 2021.10.21 @ 13:35:00

GENERAL INFORMATION:

Formation: **LKC K-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:09:22
 Time Test Ended: 19:53:32
 Interval: **3676.00 ft (KB) To 3716.00 ft (KB) (TVD)**
 Total Depth: 3716.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2255.00 ft (KB)
 2248.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6838 Inside
 Press@RunDepth: psig @ 3679.00 ft (KB) Capacity: psig
 Start Date: 2021.10.21 End Date: 2021.10.21 Last Calib.: 2021.10.21
 Start Time: 13:35:01 End Time: 19:53:32 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Surface to 1/2" Died @ 25 min
 60-ISI-No Return
 30-FF-No Blow
 60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Canyon Operating LLC
PO BOX 7117
Loveland CO 80537+7117
ATTN: Clayton Erickson

Bruton Hofstetter Unit #34-1
34-8s-22w Graham KS
Job Ticket: 68308 **DST#: 4**
Test Start: 2021.10.21 @ 13:35:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: inches			

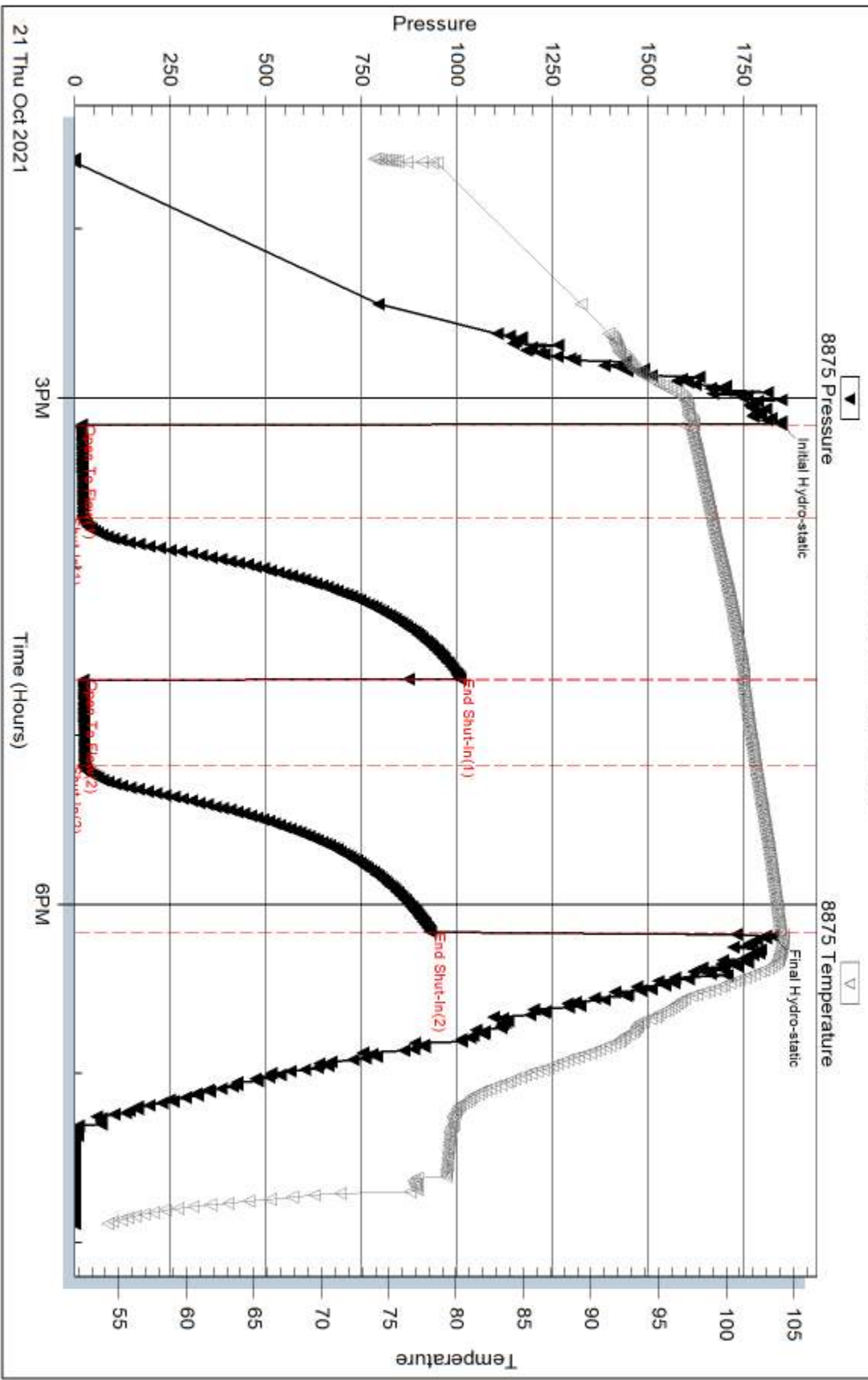
Recovery Information

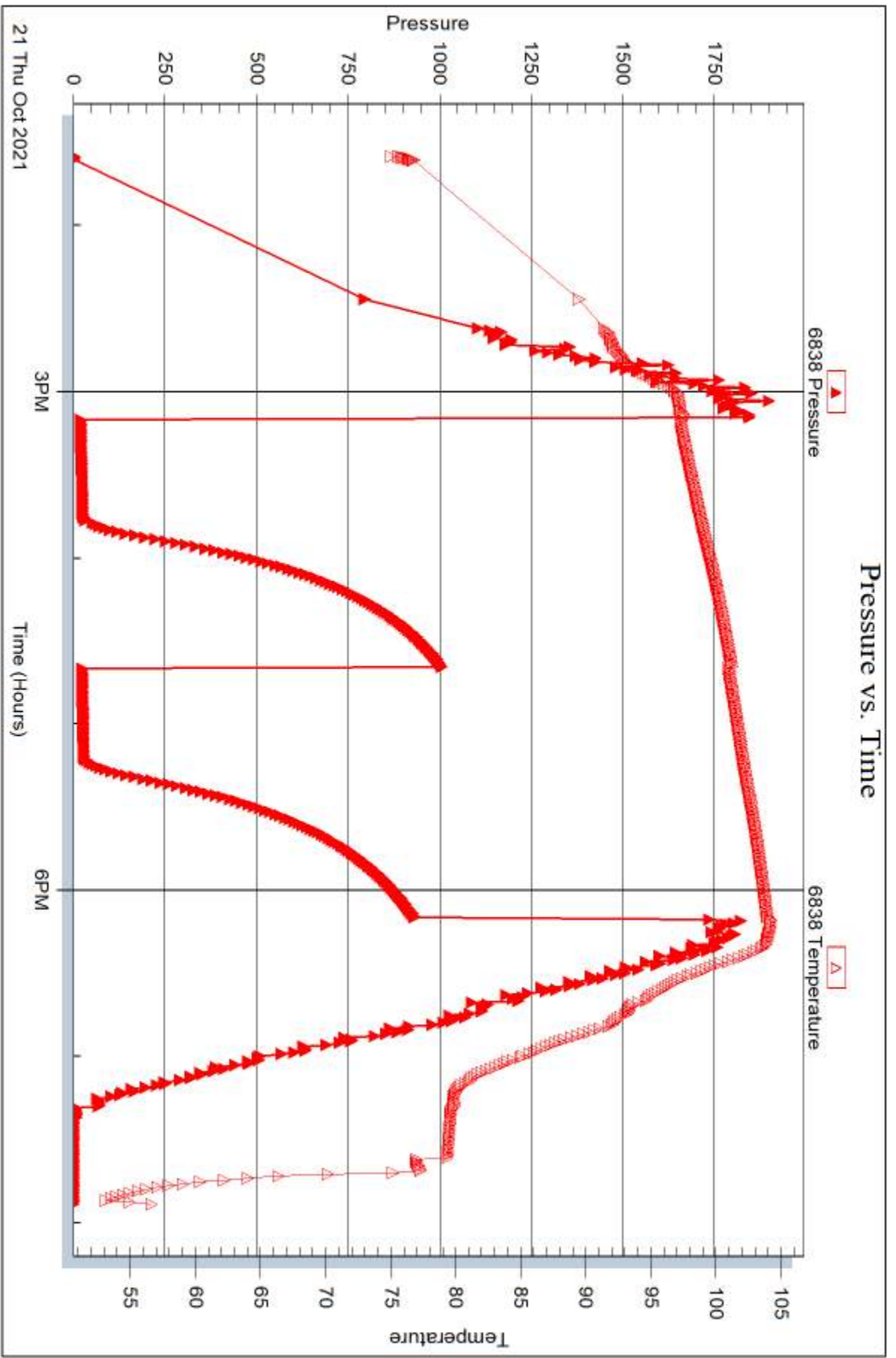
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: TrLCM

Pressure vs. Time





21 Thu Oct 2021



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Bruton Hofstetter #34-1
 API: 15-065-24206-00-00
 Location: SW SW SW Sec 34 T8S R22W
 License Number: 335' FSL & 160' FWL
 Spud Date: 10/15/2021
 Surface Coordinates: 335' FSL & 160' FWL
 Region: Graham County, KS
 Drilling Completed: 10/22/2021
 Bottom Hole Coordinates: Surface casing- 8 5/8 @ 200'
 Production casing- N/A
 Ground Elevation (ft): 2248
 Logged Interval (ft): 3200 To: TD
 K.B. Elevation (ft): 2255
 Total Depth (ft): 3900
 Formation:
 Type of Drilling Fluid: Chemical Mud

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Canyon Operating LLC
 Address: 5228 Lonetree Dr
 Loveland, CO 80537

GEOLOGIST

Name: Clayton Erickson
 Company: Erickson Wellsite Geology
 Address: 402 Palmer Street
 P.O. Box 294
 Loomis, NE 68958

DSTs

DST #1 3455-3545 30-60-30-60; Hydro: 1682-1671 IFF: 26-154 ISIP: 1101 FFP: 159-253 FSIP: 1104; Rec: 500' 90%w 10%o; 5' oil ;BHT: 109F Grav: 34; RW: .458@ 63F Chl: 17,000ppm; IF: BOB 15min ISI: dead FF: BOB 22min FSI: dead

DST #2 3548-3592 30-60-60-90; Hydro: 1746-1703 IFF: 22-84 ISIP: 924 FFP: 87-130 FSIP: 907; Rec: 120' 60%w 40%o 130' 2%o 18%w 80%o; BHT: 108F; RW: .297@ 58F Chl: 22,500ppm; IF: 3 1/4" ISI: dead FF: 4" FSI: dead

DST #3 3617-3681 30-60-30-60; Hydro: 1821-1708 IFF: 36-38 ISIP: 802 FFP: 39-42 FSIP: 830; Rec: 5' mud; BHT: 107F; IF: 1/2" ISI: dead FF: dead FSI: dead

DST #4 3676-3716 30-60-30-60; Hydro: 1849-1827 IFF: 18-22 FSIP: 1009 FFP: 22-25 FSIP: 932; Rec: 5' mud; BHT: 104F; IF: 1/2" ISI: dead FF: dead FSI: dead

COMMENTS

FORMATION TOPS

Log Tops	Sample tops
Anhydrite	
TOPEKA	3246(-991)
HEEBNER	3462(-1207)
LANSING	3500(-1245)
BKC	3714(-1459)
TD	3900(-1645)

ROCK TYPES			
Anhy	Clyst	Gyp	Mrlst
Bent	Carb. shale	Igne	Salt
Brecc	Arkose	Lmst	Shale
Cht	Dol	Meta	Shoal
			Shgy
			Siltst
			Ss
			Till

OTHER SYMBOLS

OIL SHOW Even	Spotted Quies	Dead	INTERVAL
			Dst

