

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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# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: STERRETT #1

Well Id:

Location: NENWNWSW SECTION 29 2S-23W NORTON COUNTY, KANSAS

License Number:

Region: MID-CONTINENT

Spud Date: 8-24-2022

Drilling Completed: 8-31-2022

Surface Coordinates: 2481' FSL & 355' FWL

Bottom Hole

Coordinates:

Ground Elevation (ft): 2386

K.B. Elevation (ft): 2393

Logged Interval (ft): 3000

To: 3682

Total Depth (ft): 3682

Formation: TORONTO, LANSING, ARBUCKLE & GRANITE

Type of Drilling Fluid: CHEMICAL

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

### OPERATOR

Company: PIONEER OPERATIONS, LLC.

Address: 3014 LIMESTONE CT.  
HAYS, KANSAS 67601

### GEOLOGIST

Name: William B. Bynog

Company:

Address: P.O.Box 687  
Pinecliffe, Co. 80471

### Tops

#### FORMATION TOPS

Tops on log

### DSTs

DST#1 3370-3425', DST#2 3542-3575', DST#3 3584-3650

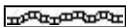
### Remarks

SET PRODUCTION CASING ON ARBUCKLE ZONE

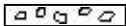
### ROCK TYPES



Anhy



Bent



Brec



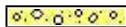
Cht



Clyst



Coal



Congl



Dol



Gyp



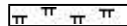
Igne



Lmst



Meta



Mrlst



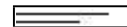
Salt



Shale



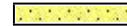
Shcol



Shgy



Sltst



Ss



Till

### ACCESSORIES

- MINERAL**
- Anhy
  - Arggrn
  - Arg
  - Bent
  - Bit
  - Breclfrag
  - Calc
  - Carb
  - Chtdk
  - Chtlt
  - Dol
  - Feldspar
  - Ferrpel
  - Ferr
  - Glau
  - Gyp
  - Hvymin
  - Kaol
  - Marl

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- FOSSIL**
- Algae
  - Amph
  - Belm
  - Bioclst
  - Brach
  - Bryozoa
  - Cephal
  - Coral

- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

- STRINGER**
- Anhy
  - Arg
  - Bent
  - Coal
  - Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

- TEXTURE**
- Boundst
  - Chalky
  - Cryxln
  - Earthy
  - Finexln
  - Grainst
  - Lithogr
  - Microxln
  - Mudst
  - Packst
  - Wackest

### OTHER SYMBOLS

- POROSITY**
- Earthy
  - Fenest
  - Fracture
  - Inter
  - Moldic
  - Organic
  - Pinpoint
  - Vuggy

- SORTING**
- Well
  - Moderate
  - Poor

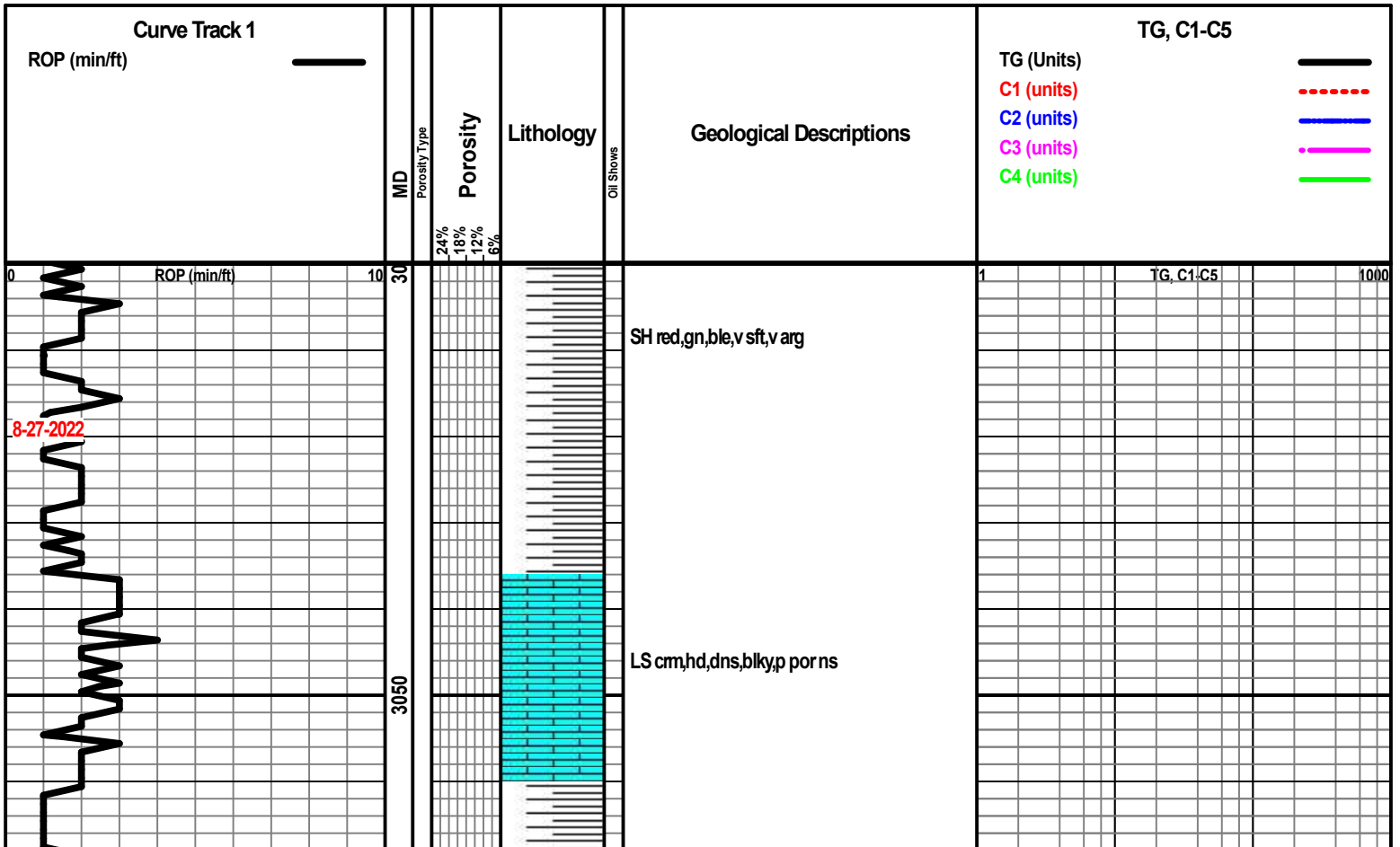
- ROUNDING**
- Rounded
  - Subrnd
  - Subang

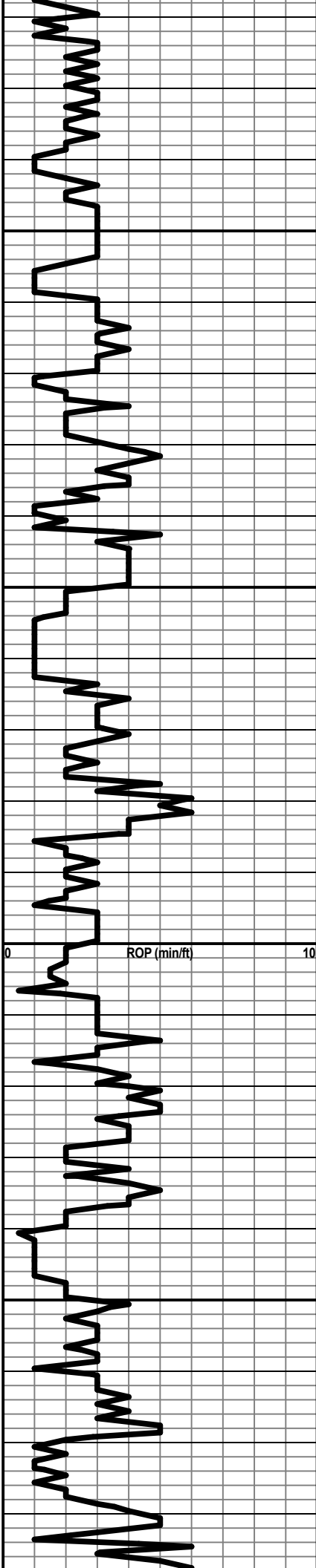
- Angular

- OIL SHOW**
- Even
  - Spotted
  - Ques
  - Dead

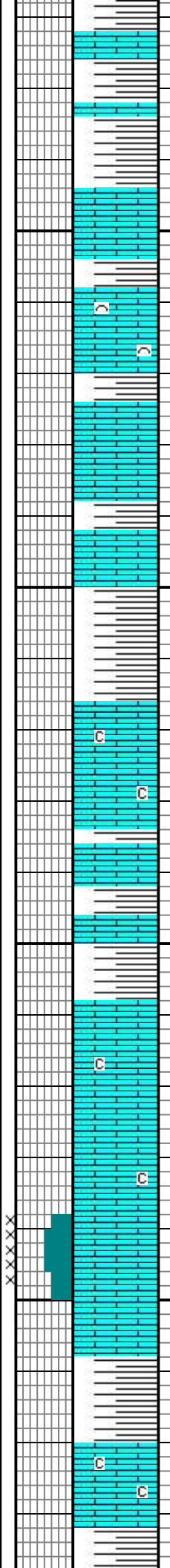
- INTERVAL**
- Dst
  - Dst mis-run

- EVENT**
- Rft
  - Sidewall





3100  
3150  
3200  
3250



SH aa with thin LS aa

LS cm,v hd,dns,blk,y,foss,p por with thin SH aa

SH red,gn,v sft,v arg

LS wh,cm,fm,chky ip,v arg,p por with thin SH aa

LS cm,hd,blk,sl foss,chky ip,p por,ns

LS wh,fm,foss,xln,fr intxn por,ns

LS cm,v hd,dns,blk,y

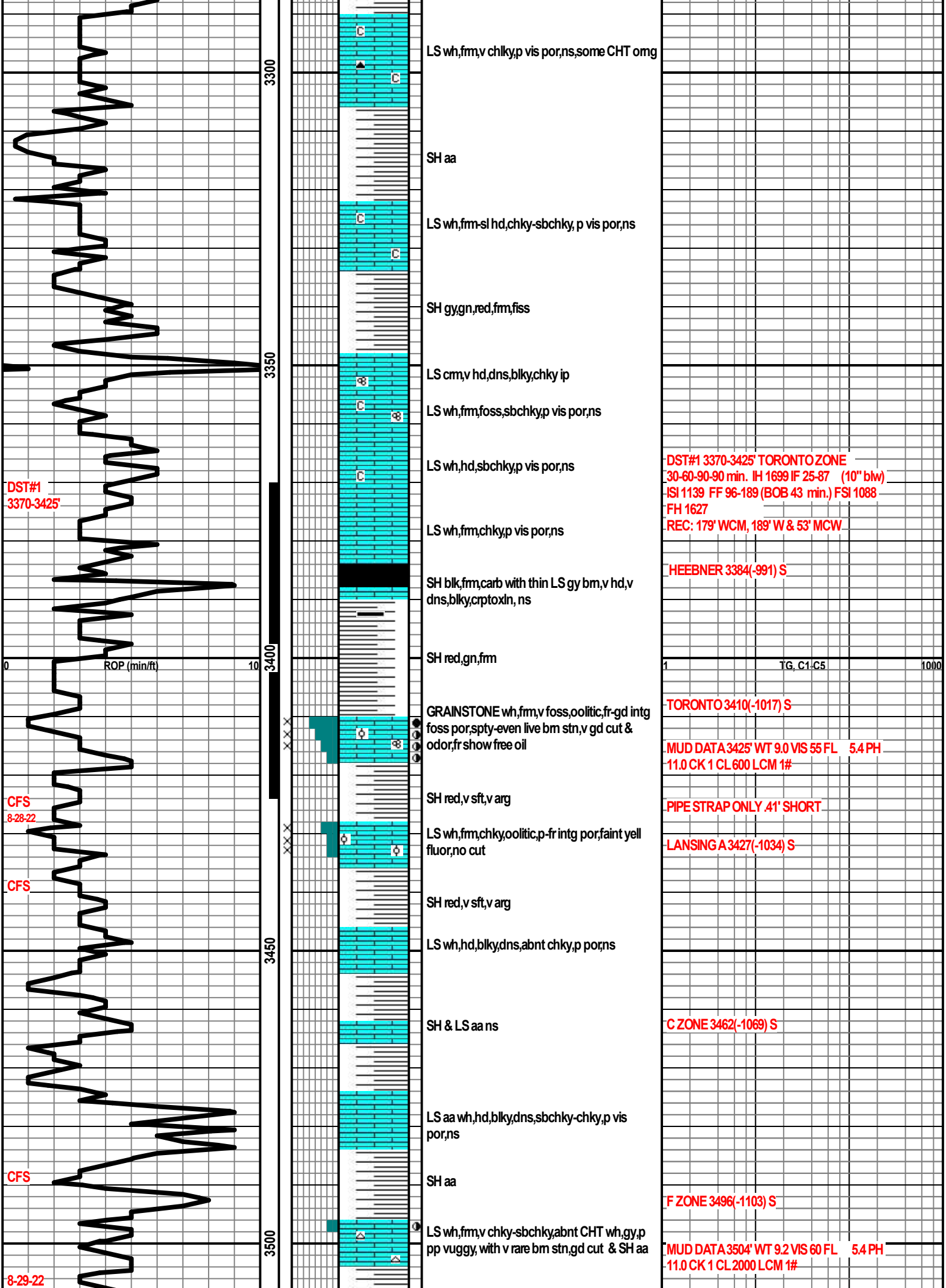
SH aa var col,v arg

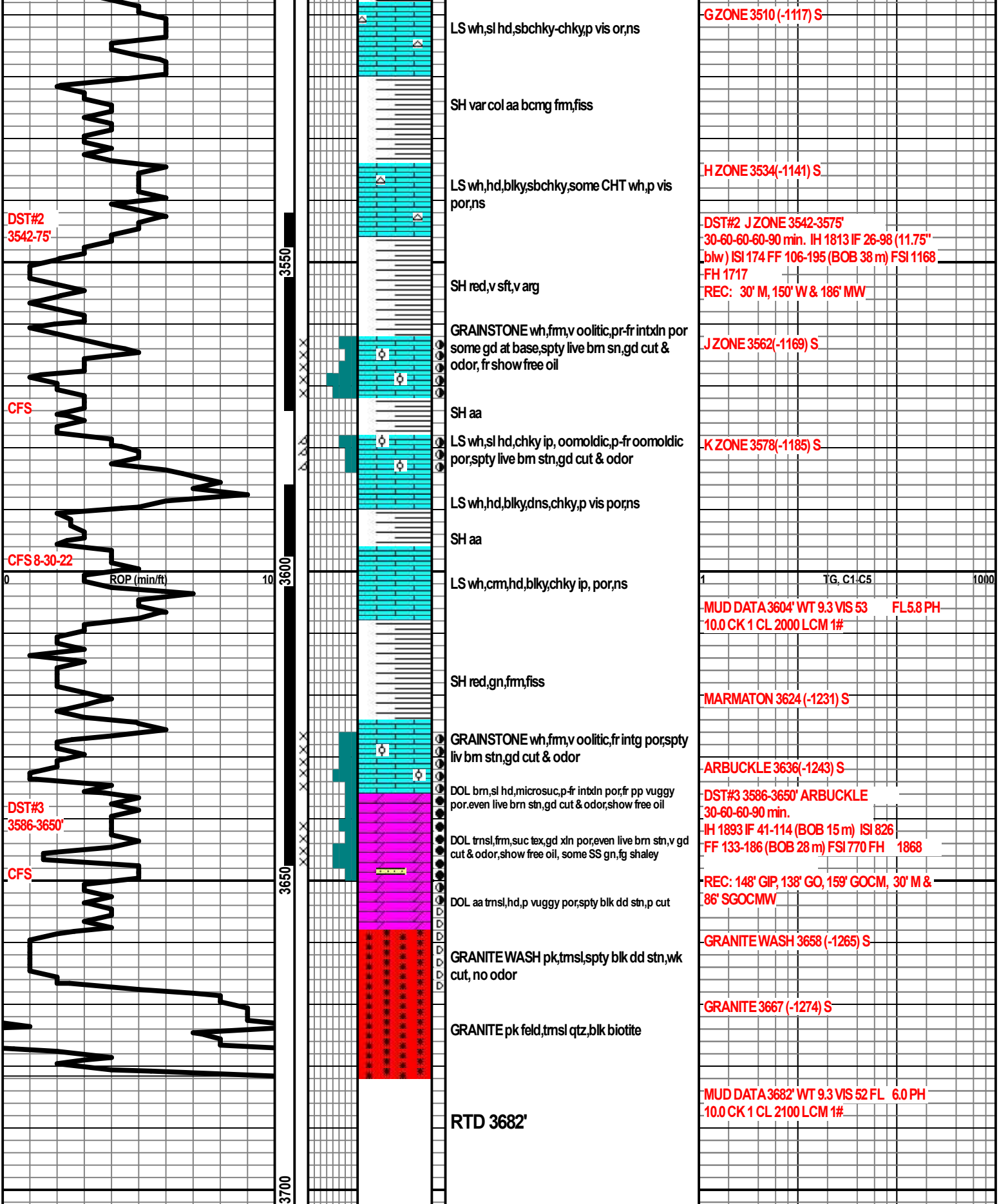
LS aa cm,v hd,dns,chky ip with thin SH aa

MUD DATA 3074' WT 8.7 VIS 58 FL 5.4 PH  
11.5 CK 1 CL 500 LCM 2#

1 TG, C1-C5 1000

TOPEKA 3207(-814) S











**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer Operations LLC

**29\_2\_23 Norton, KS**

3014 Limestone CT  
Hays, KS 67601

**Sterrett #1**

Job Ticket: 69019

**DST#: 1**

ATTN: Bryan Bynog

Test Start: 2022.08.28 @ 12:27:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:55:15

Time Test Ended: 21:55:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

**Interval: 3370.00 ft (KB) To 3425.00 ft (KB) (TVD)**

Reference Elevations: 2393.00 ft (KB)

Total Depth: 3425.00 ft (KB) (TVD)

2386.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 7.00 ft

**Serial #: 8652 Outside**

Press@RunDepth: 189.10 psig @ 3371.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.28

End Date:

2022.08.28

Last Calib.:

2022.08.28

Start Time:

12:27:05

End Time:

21:55:15

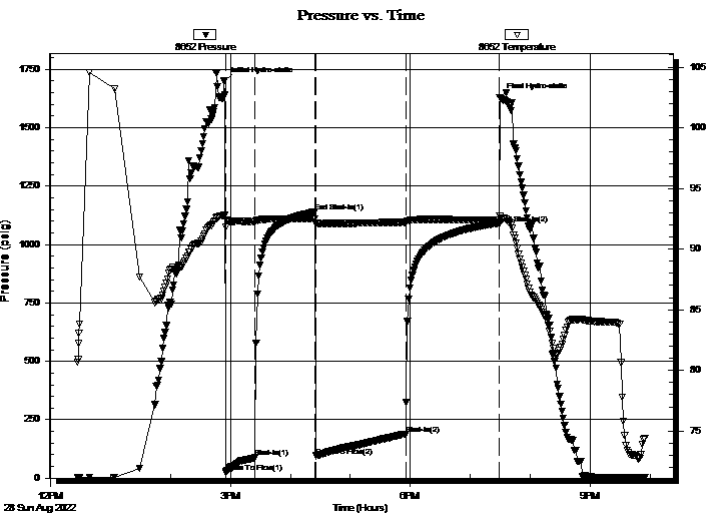
Time On Btm:

2022.08.28 @ 14:53:45

Time Off Btm:

2022.08.28 @ 19:29:30

**TEST COMMENT:** IF-30- Built to 10"  
SI1-60- No return  
FF-90- BOB in 43 min, built to 21 1/2"  
SI2-90- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.03	92.83	Initial Hydro-static
2	25.42	91.78	Open To Flow (1)
31	87.47	92.22	Shut-In(1)
92	1138.83	92.48	End Shut-In(1)
92	95.75	92.05	Open To Flow (2)
182	189.10	92.21	Shut-In(2)
276	1088.16	92.35	End Shut-In(2)
276	1627.06	92.70	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
179.00	WCM 20%w ater 80%mud	1.45
189.00	w ater 100%	2.65
53.00	MCW 70%w ater 30%mud	0.74

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer Operations LLC  
3014 Limestone CT  
Hays, KS 67601  
ATTN: Bryan Bynog

**29\_2\_23 Norton, KS**

**Sterrett #1**

Job Ticket: 69019

**DST#: 1**

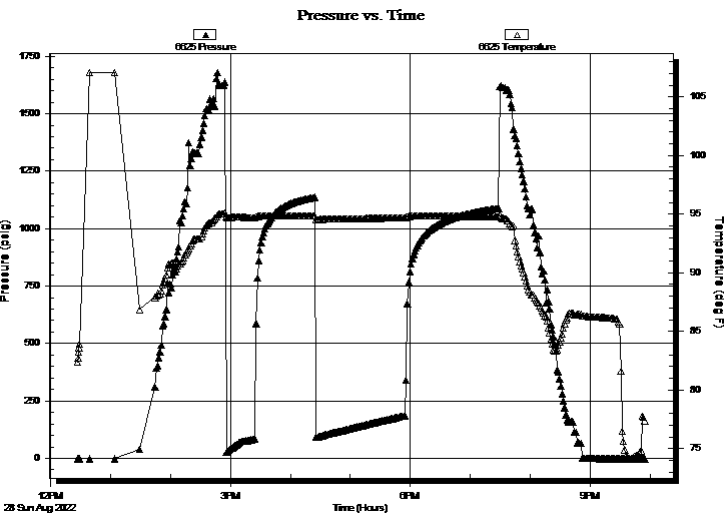
Test Start: 2022.08.28 @ 12:27:00

### GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 14:55:15  
 Tester: Dustin Day  
 Time Test Ended: 21:55:15  
 Unit No: 70  
 Interval: **3370.00 ft (KB) To 3425.00 ft (KB) (TVD)**  
 Reference Elevations: 2393.00 ft (KB)  
 Total Depth: 3425.00 ft (KB) (TVD)  
 2386.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: KB to GR/CF: 7.00 ft

**Serial #: 6625 Inside**  
 Press@RunDepth: psig @ 3371.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.08.28 End Date: 2022.08.28 Last Calib.: 2022.08.28  
 Start Time: 12:27:05 End Time: 21:55:15 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF-30- Built to 10"  
 SI1-60- No return  
 FF-90- BOB in 43 min, built to 21 1/2"  
 SI2-90- No return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
179.00	WCM 20%w ater 80% mud	1.45
189.00	w ater 100%	2.65
53.00	MCW 70%w ater 30% mud	0.74

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Pioneer Operations LLC

**29\_2\_23 Norton, KS**

3014 Limestone CT  
Hays, KS 67601

**Sterrett #1**

Job Ticket: 69019

**DST#: 1**

ATTN: Bryan Bynog

Test Start: 2022.08.28 @ 12:27:00

### 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:

70000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
179.00	WCM 20%w ater 80%mud	1.454
189.00	w ater 100%	2.651
53.00	MCW 70%w ater 30%mud	0.743

Total Length: 421.00 ft

Total Volume: 4.848 bbl

Num Fluid Samples: 0

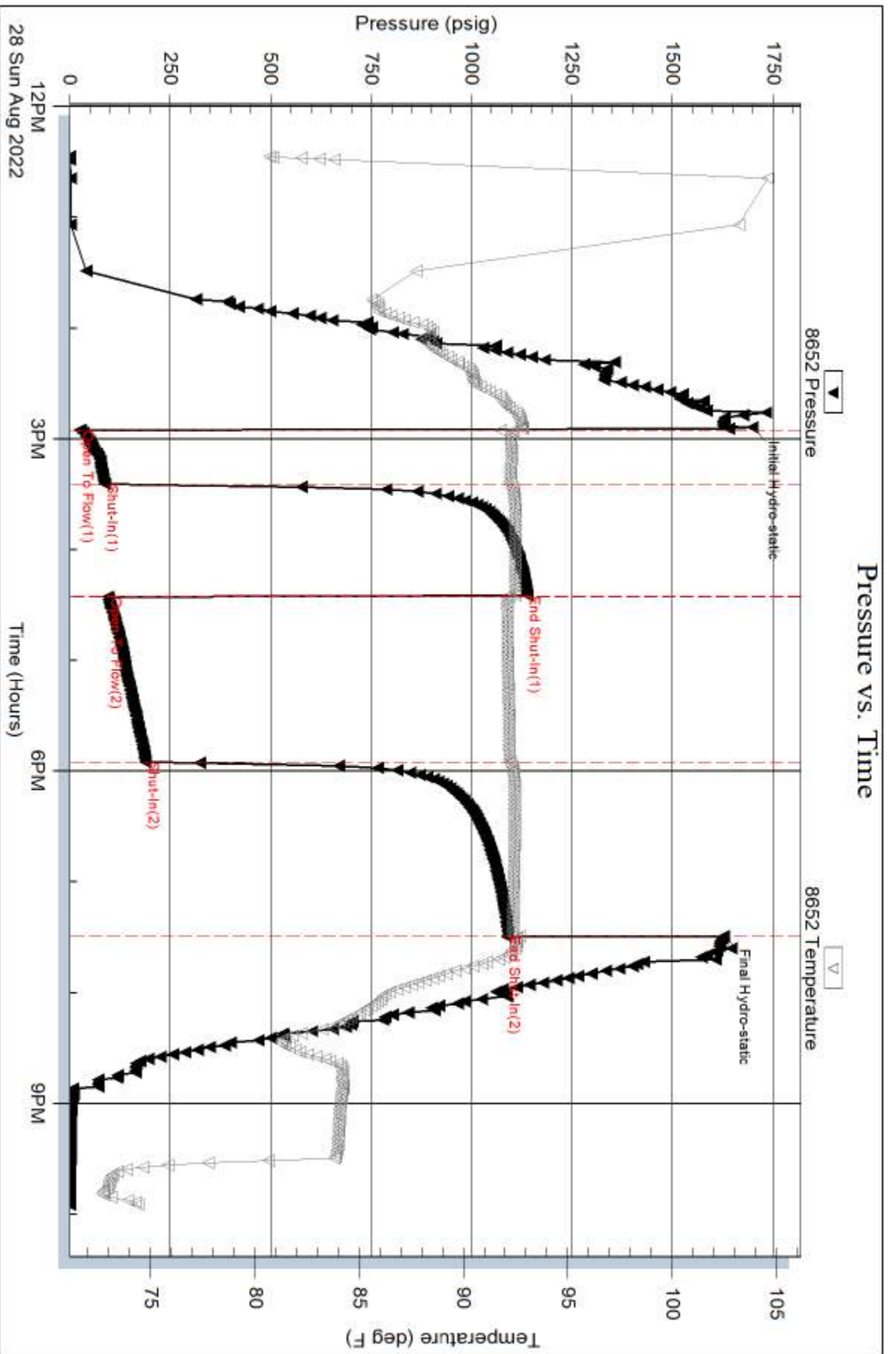
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM



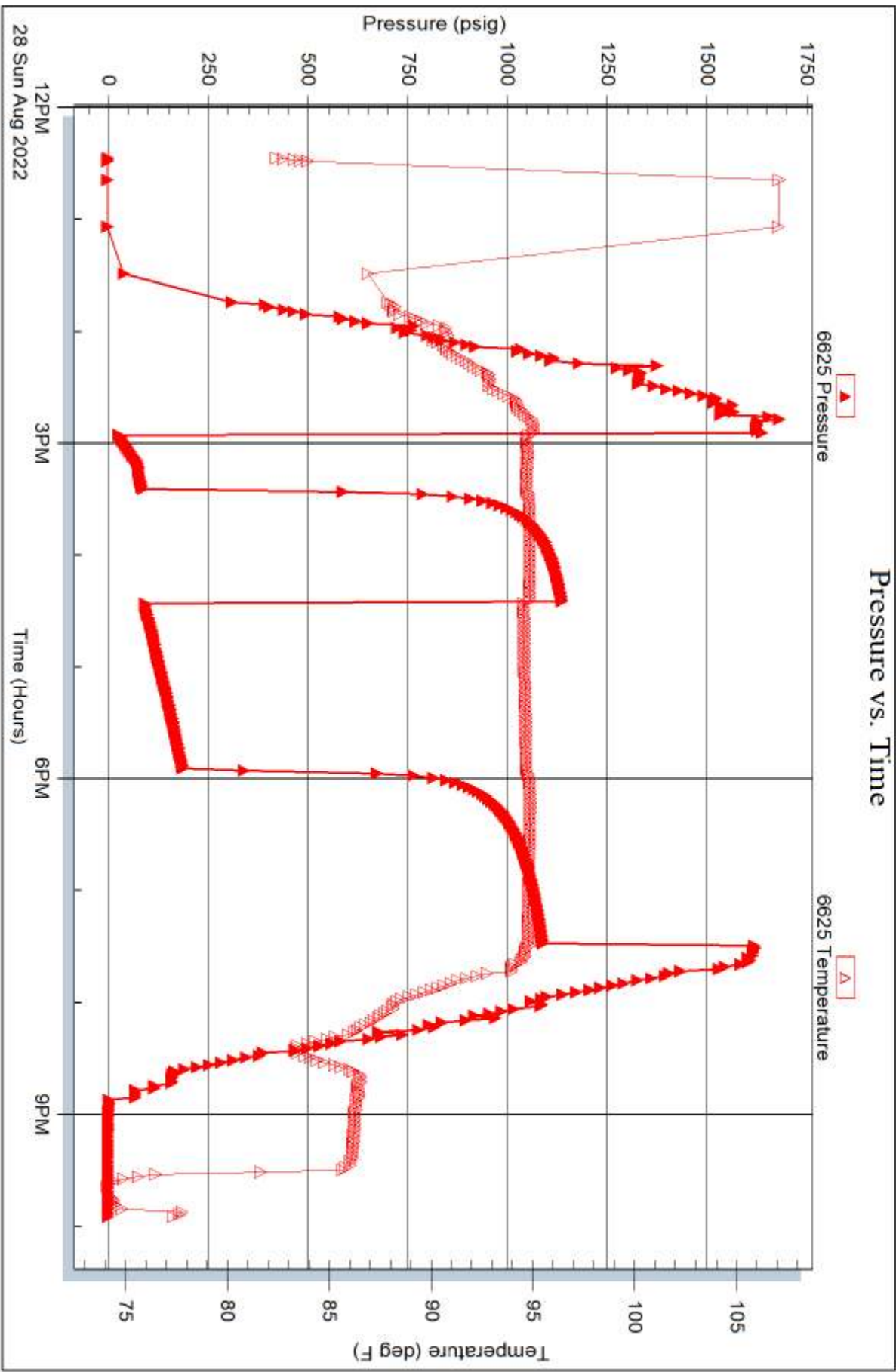
Serial #: 6625

Inside

Pioneer Operations LLC

Serret#1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69019

Printed: 2022.08.28 @ 22:15:35



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer Operations LLC

**29\_2\_23 Norton, KS**

3014 Limestone CT  
Hays, KS 67601

**Sterrett #1**

Job Ticket: 69020

**DST#: 2**

ATTN: Bryan Bynog

Test Start: 2022.08.29 @ 17:28:00

## GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:32:00

Time Test Ended: 02:05:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

**Interval: 3542.00 ft (KB) To 3575.00 ft (KB) (TVD)**

Reference Elevations: 2393.00 ft (KB)

Total Depth: 3575.00 ft (KB) (TVD)

2386.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 7.00 ft

**Serial #: 8652 Outside**

Press@RunDepth: 194.78 psig @ 3543.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.29

End Date:

2022.08.30

Last Calib.:

2022.08.30

Start Time:

17:28:05

End Time:

02:05:45

Time On Btm:

2022.08.29 @ 19:30:45

Time Off Btm:

2022.08.29 @ 23:33:15

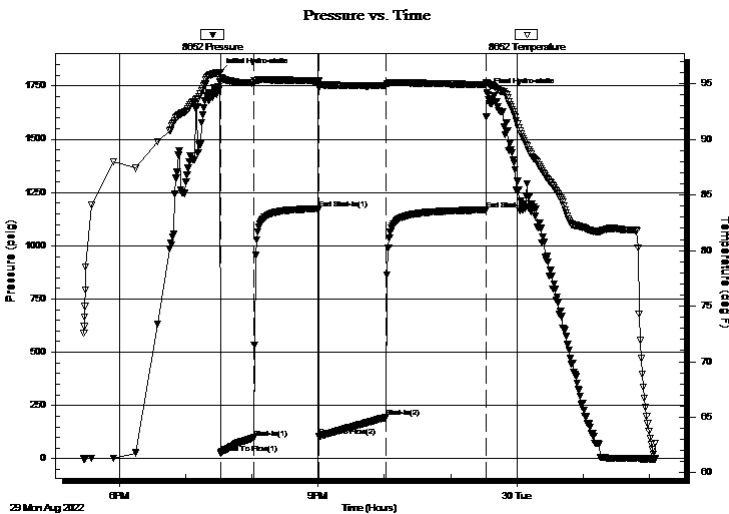
**TEST COMMENT:** IF-30- Built to 11 3/4"

SI1-60- No return

FF-60- BOB in 38 min, built to 19 1/2"

SI2-90- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.40	96.03	Initial Hydro-static
2	25.53	95.36	Open To Flow (1)
32	97.86	95.07	Shut-In(1)
90	1173.58	95.26	End Shut-In(1)
91	105.76	94.67	Open To Flow (2)
151	194.78	94.82	Shut-In(2)
242	1168.31	94.91	End Shut-In(2)
243	1717.25	95.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%	0.15
150.00	water 100%	1.32
186.00	MCW 15% mud 85% water	2.61

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer Operations LLC

**29\_2\_23 Norton, KS**

3014 Limestone CT  
Hays, KS 67601

**Sterrett #1**

Job Ticket: 69020

**DST#: 2**

ATTN: Bryan Bynog

Test Start: 2022.08.29 @ 17:28:00

## GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:32:00

Time Test Ended: 02:05:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

**Interval: 3542.00 ft (KB) To 3575.00 ft (KB) (TVD)**

Total Depth: 3575.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2393.00 ft (KB)

2386.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 6625 Inside**

Press@RunDepth: psig @ 3543.00 ft (KB)

Start Date: 2022.08.29

End Date: 2022.08.30

Capacity: 8000.00 psig

Last Calib.: 2022.08.30

Start Time: 17:28:05

End Time: 02:05:45

Time On Btm:

Time Off Btm:

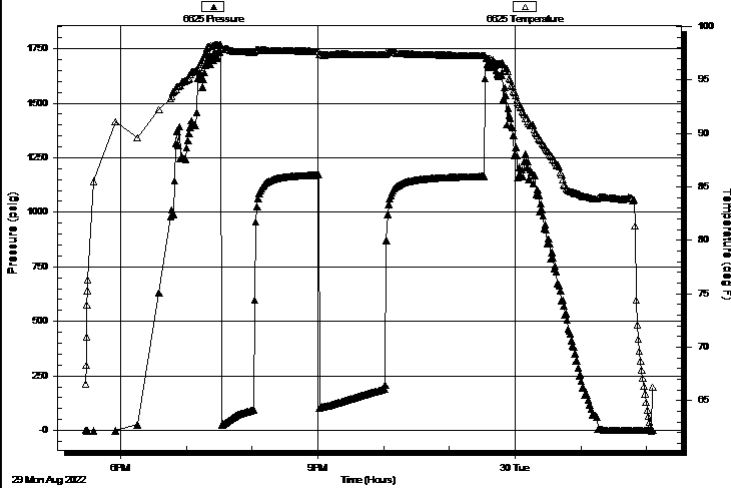
TEST COMMENT: IF-30- Built to 11 3/4"

SI1-60- No return

FF-60- BOB in 38 min, built to 19 1/2"

SI2-90- No return

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%	0.15
150.00	w ater 100%	1.32
186.00	MCW 15% mud 85% w ater	2.61

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Pioneer Operations LLC

**29\_2\_23 Norton, KS**

3014 Limestone CT  
Hays, KS 67601

**Sterrett #1**

Job Ticket: 69020

**DST#: 2**

ATTN: Bryan Bynog

Test Start: 2022.08.29 @ 17:28:00

### 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: 125000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	mud 100%	0.148
150.00	water 100%	1.321
186.00	MCW 15% mud 85% water	2.609

Total Length: 366.00 ft

Total Volume: 4.078 bbl

Num Fluid Samples: 0

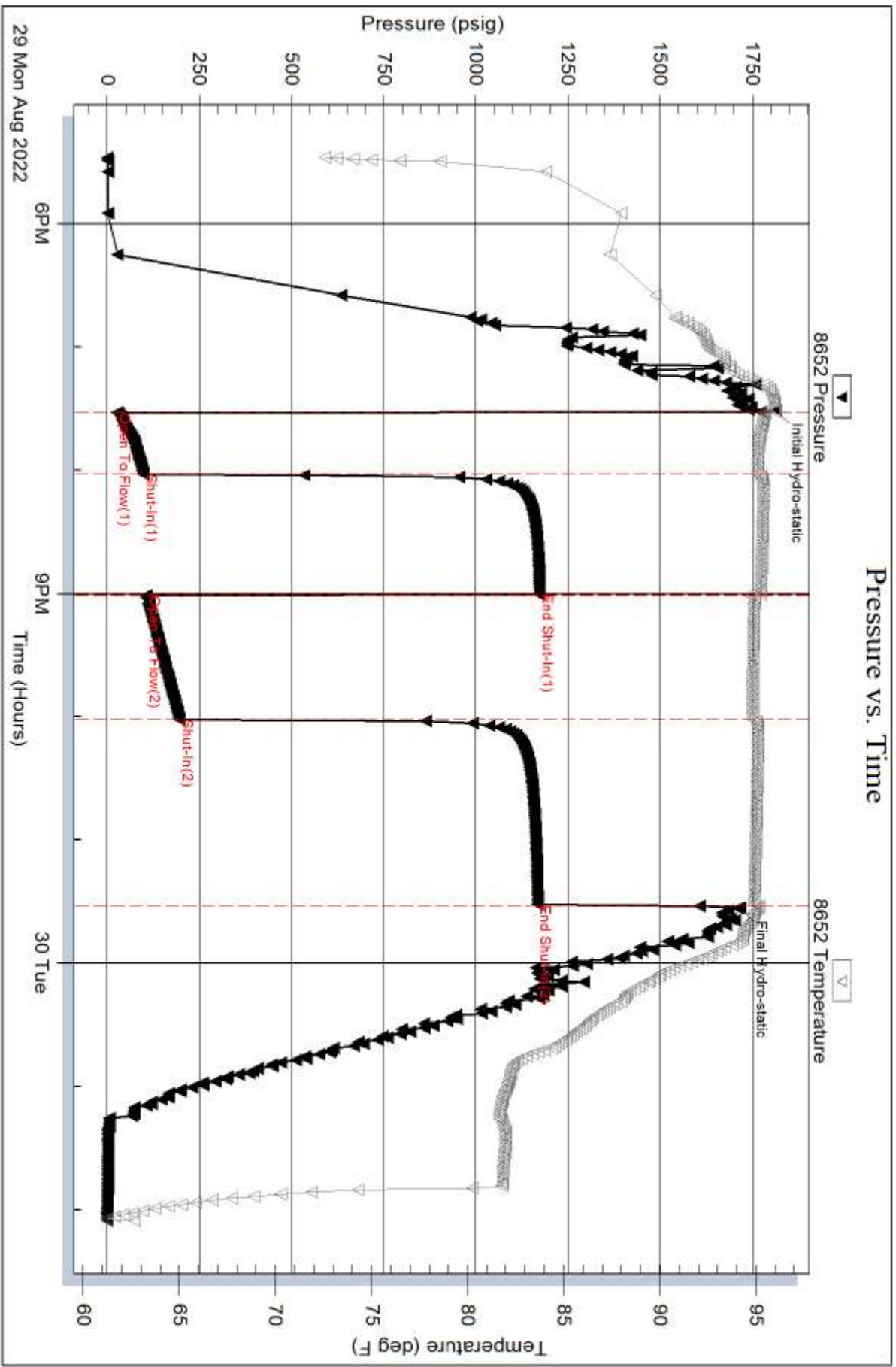
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM



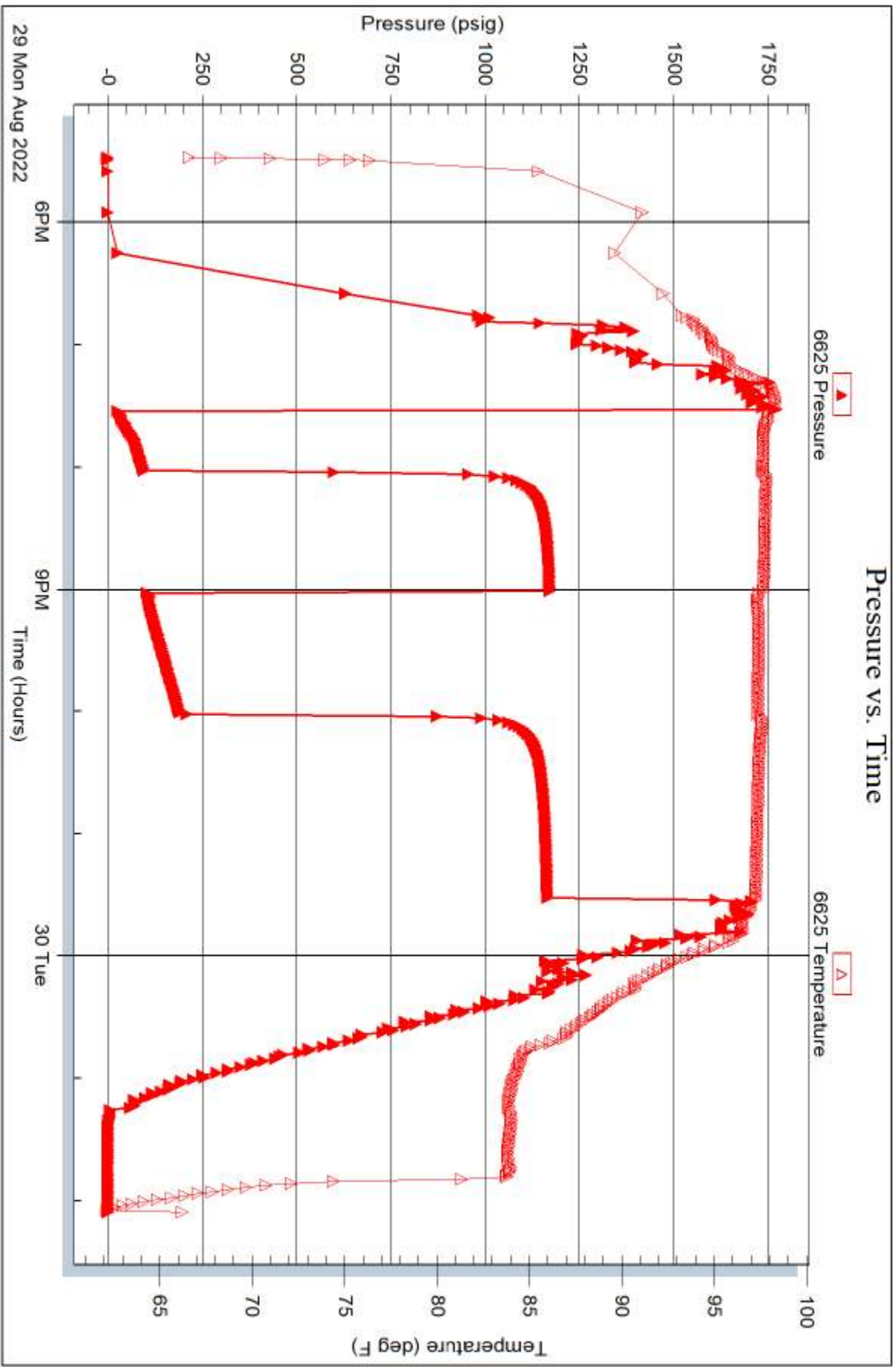
Serial #: 6625

Inside

Pioneer Operations LLC

Serret #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69020

Printed: 2022.08.30 @ 07:00:38



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer Operations LLC

**29\_2\_23 Norton, KS**

3014 Limestone CT  
Hays, KS 67601

**Sterrett #1**

Job Ticket: 69021

**DST#: 3**

ATTN: Bryan Bynog

Test Start: 2022.08.30 @ 14:34:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:23:00

Time Test Ended: 23:38:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

**Interval: 3586.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Reference Elevations: 2393.00 ft (KB)

Total Depth: 3650.00 ft (KB) (TVD)

2386.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 7.00 ft

**Serial #: 8652 Outside**

Press@RunDepth: 185.76 psig @ 3587.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.30

End Date:

2022.08.30

Last Calib.: 1899.12.30

Start Time: 14:34:05

End Time:

23:38:00

Time On Btm: 2022.08.30 @ 16:22:00

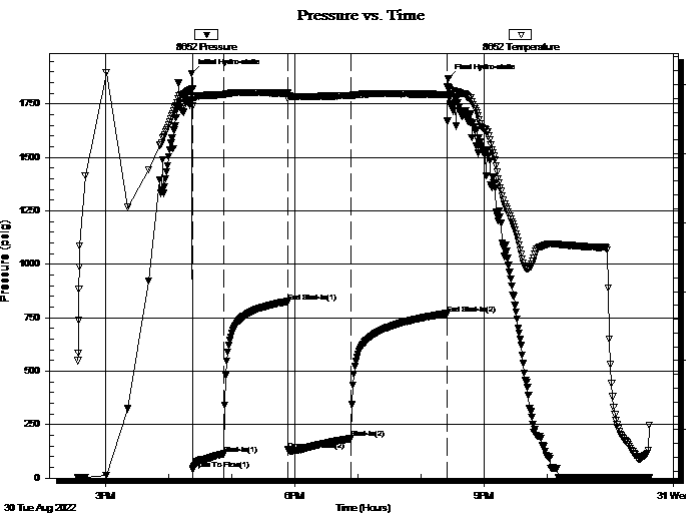
Time Off Btm: 2022.08.30 @ 20:26:15

**TEST COMMENT:** IF-30- BOB in 15 min 45 sec, built to 19"

SI1-60- 1" return blow

FF-60- BOB in 28 min, built to 21 1/2"

SI2-90- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.19	94.72	Initial Hydro-static
1	40.81	93.43	Open To Flow (1)
31	113.62	94.26	Shut-In(1)
92	825.86	94.38	End Shut-In(1)
92	132.80	94.00	Open To Flow (2)
152	185.76	94.20	Shut-In(2)
243	769.91	94.28	End Shut-In(2)
245	1867.61	94.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%	0.15
86.00	SGOMCW 8%gas 2%oil 69%water 30% n	0.42
159.00	GOCM 5%gas 5%oil 90%mud	2.23
138.00	GO 10%gas 90%oil	1.94
0.00	148 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



# DRILL STEM TEST REPORT

Pioneer Operations LLC

**29\_2\_23 Norton, KS**

3014 Limestone CT  
Hays, KS 67601

**Sterrett #1**

Job Ticket: 69021

**DST#: 3**

ATTN: Bryan Bynog

Test Start: 2022.08.30 @ 14:34:00

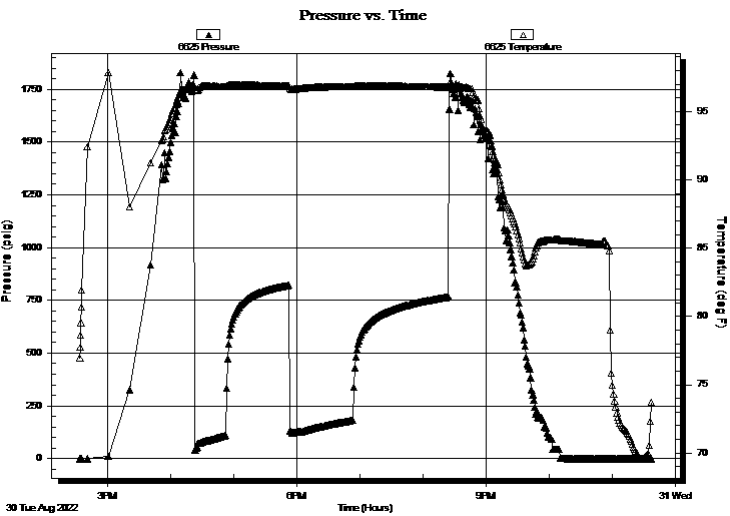
## GENERAL INFORMATION:

<b>Formation:</b> <b>Arbuckle</b>	
<b>Deviated:</b> No Whipstock:	ft (KB)
<b>Time Tool Opened:</b> 16:23:00	<b>Test Type:</b> Conventional Bottom Hole (Reset)
<b>Time Test Ended:</b> 23:38:00	<b>Tester:</b> Dustin Day
	<b>Unit No:</b> 70
<b>Interval:</b> <b>3586.00 ft (KB) To 3650.00 ft (KB) (TVD)</b>	<b>Reference Elevations:</b> 2393.00 ft (KB)
<b>Total Depth:</b> 3650.00 ft (KB) (TVD)	2386.00 ft (CF)
<b>Hole Diameter:</b> 7.88 inches	<b>Hole Condition:</b> KB to GR/CF: 7.00 ft

**Serial #: 6625**      **Inside**

<b>Press@RunDepth:</b> psig @ 3587.00 ft (KB)	<b>Capacity:</b> 8000.00 psig
<b>Start Date:</b> 2022.08.30                      End Date: 2022.08.30	<b>Last Calib.:</b> 1899.12.30
<b>Start Time:</b> 14:34:05                      End Time: 23:38:00	<b>Time On Btm:</b>
	<b>Time Off Btm:</b>

**TEST COMMENT:** IF-30- BOB in 15 min 45 sec, built to 19"  
 SI1-60- 1" return blow  
 FF-60- BOB in 28 min, built to 21 1/2"  
 SI2-90- No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%	0.15
86.00	SGOMCW 8%gas 2%oil 69%water 30%pn0.42	0.42
159.00	GOCM 5%gas 5%oil 90%mud	2.23
138.00	GO 10%gas 90%oil	1.94
0.00	148 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Pioneer Operations LLC

**29\_2\_23 Norton, KS**

3014 Limestone CT  
Hays, KS 67601

**Sterrett #1**

Job Ticket: 69021

**DST#: 3**

ATTN: Bryan Bynog

Test Start: 2022.08.30 @ 14:34:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

7 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

100000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100%	0.148
86.00	SGOMCW 8%gas 2%oil 69%water 30%mud	0.423
159.00	GOCM 5%gas 5%oil 90%mud	2.230
138.00	GO 10%gas 90%oil	1.936
0.00	148 GIP	0.000

Total Length: 413.00 ft

Total Volume: 4.737 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

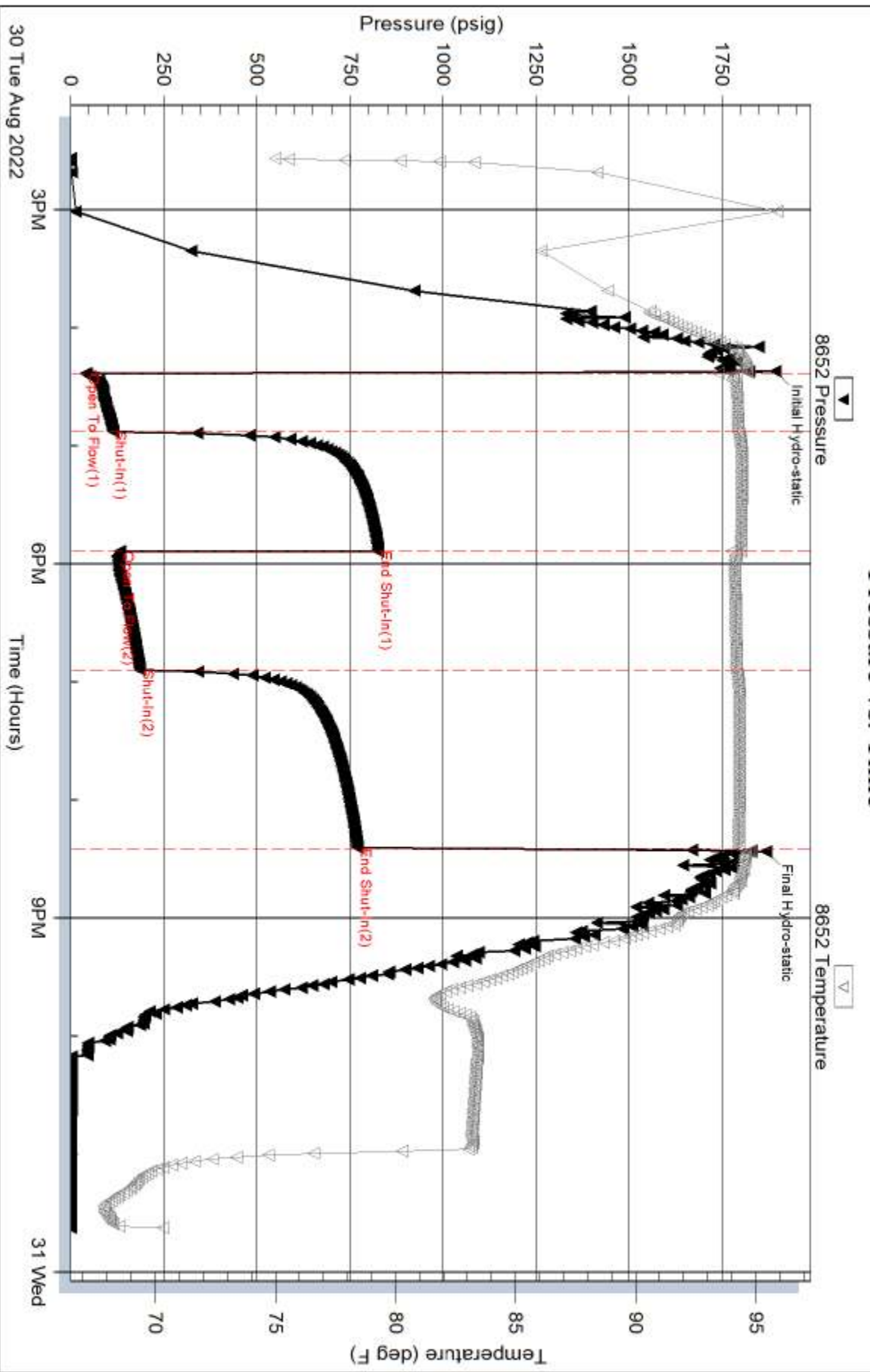
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM

### Pressure vs. Time



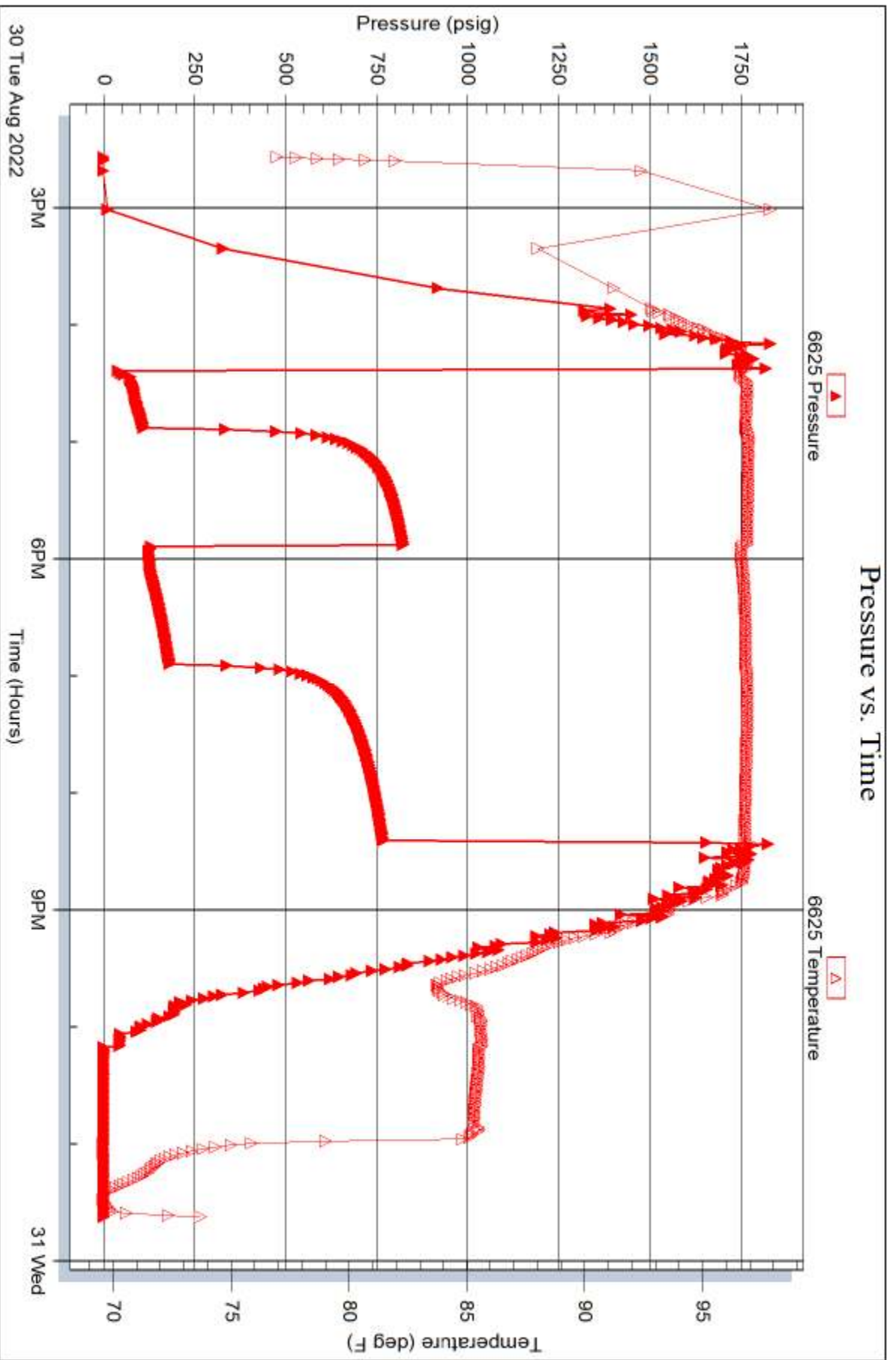
Serial #: 6625

Inside

Pioneer Operations LLC

Sterret #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 69021

Printed: 2022.08.31 @ 06:52:52



**FIELD TICKET & TREATMENT REPORT  
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8/24/22	35862	Storrett 1	29	2	23W	Nor Kan

CUSTOMER Pioneer Operations LLC  
 MAILING ADDRESS 3014 Limestone Ct  
 CITY Hays STATE KS ZIP CODE 67601

TRUCK #	DRIVER	TRUCK #	DRIVER
102	Tom W		
8103	Sack T		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220' CASING SIZE & WEIGHT 8 3/8" 23#  
 CASING DEPTH 220' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.4 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 12.5 Bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting & set up on well. Circulate mud.  
Mix 175 sp surface blend. Displace 12.5 Bbls & shut in 6:20  
cement did circulate

Thanks Tom & Sack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P002	1	PUMP CHARGE <u>Surface</u>	\$1150.00	\$1150.00
M001	55	MILEAGE	\$6.50	\$357.50
M002	7.29 tons	Ton Mileage Delivery	\$642.68	\$642.68
CB004	175 sp	Class A 30cc 270 g/l	\$24.50	\$4,287.50
			sub total	\$6,437.68
			less 10% disc.	\$643.76
			sub total	\$5,793.92
			SALES TAX	279.76
			ESTIMATED TOTAL	6073.68

AUTHORIZATION [Signature] TITLE Performer DATE 8/24/22

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

TICKET NUMBER 0702

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

LOCATION Hoxie  
 FOREMAN Tom Williams

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-1-22	35862	Starrrett 1	29	2	23	Norton

CUSTOMER <u>Frontier Operations LLL</u>		
MAILING ADDRESS <u>3014 Limestone Ct</u>		
CITY <u>Hays</u>	STATE <u>KS</u>	ZIP CODE <u>67601</u>

TRUCK #	DRIVER	TRUCK #	DRIVER
102	Preston P		
202	Tom W		
	Pegton		

JOB TYPE Part collar HOLE SIZE \_\_\_\_\_ HOLE DEPTH 3692' CASING SIZE & WEIGHT 5 1/2"  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.5 SLURRY VOL 1.51 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Ran float equipment, set up on stP#2. Hooked up head + mani-fold.  
Circulate mud 1hr. Mix 500gal mud flush followed by 2000 gal water.  
Mix 150 st PUL 30 RH 150 down hole. Wash up display plug  
Plug down 5:15am

Thanks Tom + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
K0003	1	PUMP CHARGE <u>Part collar</u>	\$1850.00	\$1850.00
M001	55	MILEAGE	\$6.50	\$357.50
M002	10.62 tons	Ton Mileage Delivery	\$876.15	\$876.15
CB030	180 st	69lb/109st 20gal 5" Kalsol	\$28.55	\$5139.00
CE003	1	5 1/2" head + manifold	\$200.00	\$200.00
FE0033	1	5 1/2" AFW guide shoe	\$400.00	\$400.00
FE051	1	5 1/2" hatch down plug <u>assy</u>	\$695.00	\$695.00
FE090	1	5 1/2" part collar	\$3000.00	\$3000.00
FE022	3	5 1/2" basket	\$385.00	\$1155.00
FE102	3	5 1/2" stop ring	\$35.00	\$105.00
FE013	7	5 1/2" centralizers (turbos)	\$108.00	\$756.00
FE097	24	5 1/2" reciprocating scrubbers	\$75.00	\$1800.00
CP014	2 gal	KLL	\$30.00	\$60.00
CP013	500gal	mud flush	\$1.00	\$500.00
			sub total	\$17093.45
			less 10% discount	\$17093.45
			sub total	\$15384.29
			SALES TAX	914.15
			ESTIMATED TOTAL	16298.44

AUTHORIZATION [Signature] TITLE \_\_\_\_\_

DATE \_\_\_\_\_

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.