

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)</i> <i>(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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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	WILLY NILLY 16A-32-916
Doc ID	1482810

All Electric Logs Run

DENSITY-NEUTRON
INDUCTION
MICRO
SONIC



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65985

DST#: 1

ATTN: Wyatt Urban

Test Start: 2019.08.26 @ 15:10:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:18:47

Time Test Ended: 00:11:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 3148.00 ft (KB) To 3190.00 ft (KB) (TVD)

Reference Elevations: 2053.00 ft (KB)

Total Depth: 3190.00 ft (KB) (TVD)

2045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374 Inside

Press@RunDepth: 15.33 psig @ 3154.00 ft (KB)

Capacity: psig

Start Date: 2019.08.26

End Date:

2019.08.27

Last Calib.:

2019.08.27

Start Time: 15:10:01

End Time:

00:11:02

Time On Btm:

2019.08.26 @ 19:18:32

Time Off Btm:

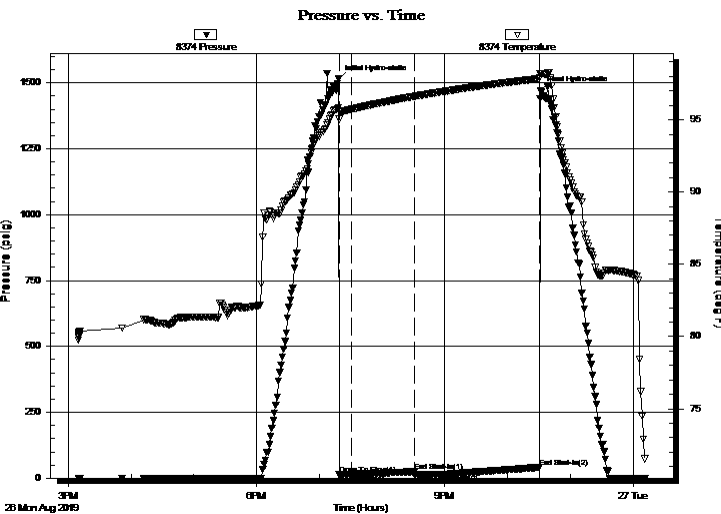
2019.08.26 @ 22:31:32

TEST COMMENT: 10-IF-Weak; Built to 1&1/4"

60-ISI-No Return

30-FF-Weak Surface

90-FSI-No Return



PRESSURE SUMMARY

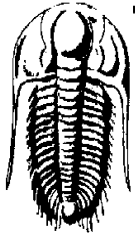
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1513.90	95.82	Initial Hydro-static
1	12.90	95.04	Open To Flow (1)
12	14.16	95.72	Shut-In(1)
72	24.36	96.62	End Shut-In(1)
73	14.90	96.62	Open To Flow (2)
101	15.33	96.96	Shut-In(2)
192	40.80	97.88	End Shut-In(2)
194	1469.58	98.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

1515 Wynkoop STE 700
Denver CO 80202+2062

ATTN: Wyatt Urban

Willy Nilly #16A-32-916

32-9s-16w Rooks KS

Job Ticket: 65985

DST#: 1

Test Start: 2019.08.26 @ 15:10:00

GENERAL INFORMATION:

Formation: Toronto
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:18:47
Time Test Ended: 00:11:02
Interval: 3148.00 ft (KB) To 3190.00 ft (KB) (TVD)
Total Depth: 3190.00 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: 2053.00 ft (KB)
 2045.00 ft (CF)
KB to GR/CF: 8.00 ft

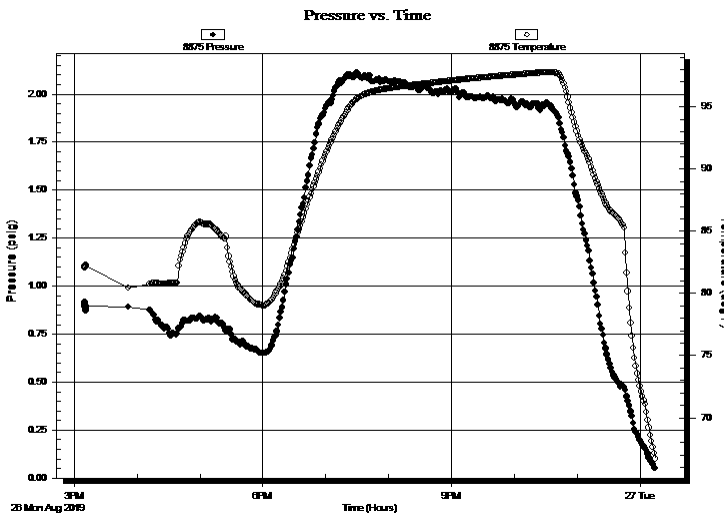
Serial #: 8875

Fluid

Press@RunDepth: psig @ 3112.00 ft (KB) **Capacity:** psig
Start Date: 2019.08.26 **End Date:** 2019.08.27 **Last Calib.:** 2019.08.27
Start Time: 15:10:01 **End Time:** 00:15:02 **Time On Btm:**
Time Off Btm:

TEST COMMENT: 10-IF-Weak; Built to 1&1/4"
 60-ISI-No Return
 30-FF-Weak Surface
 90-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65985

DST#: 1

ATTN: Wyatt Urban

Test Start: 2019.08.26 @ 15:10:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%M	0.015

Total Length: 2.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

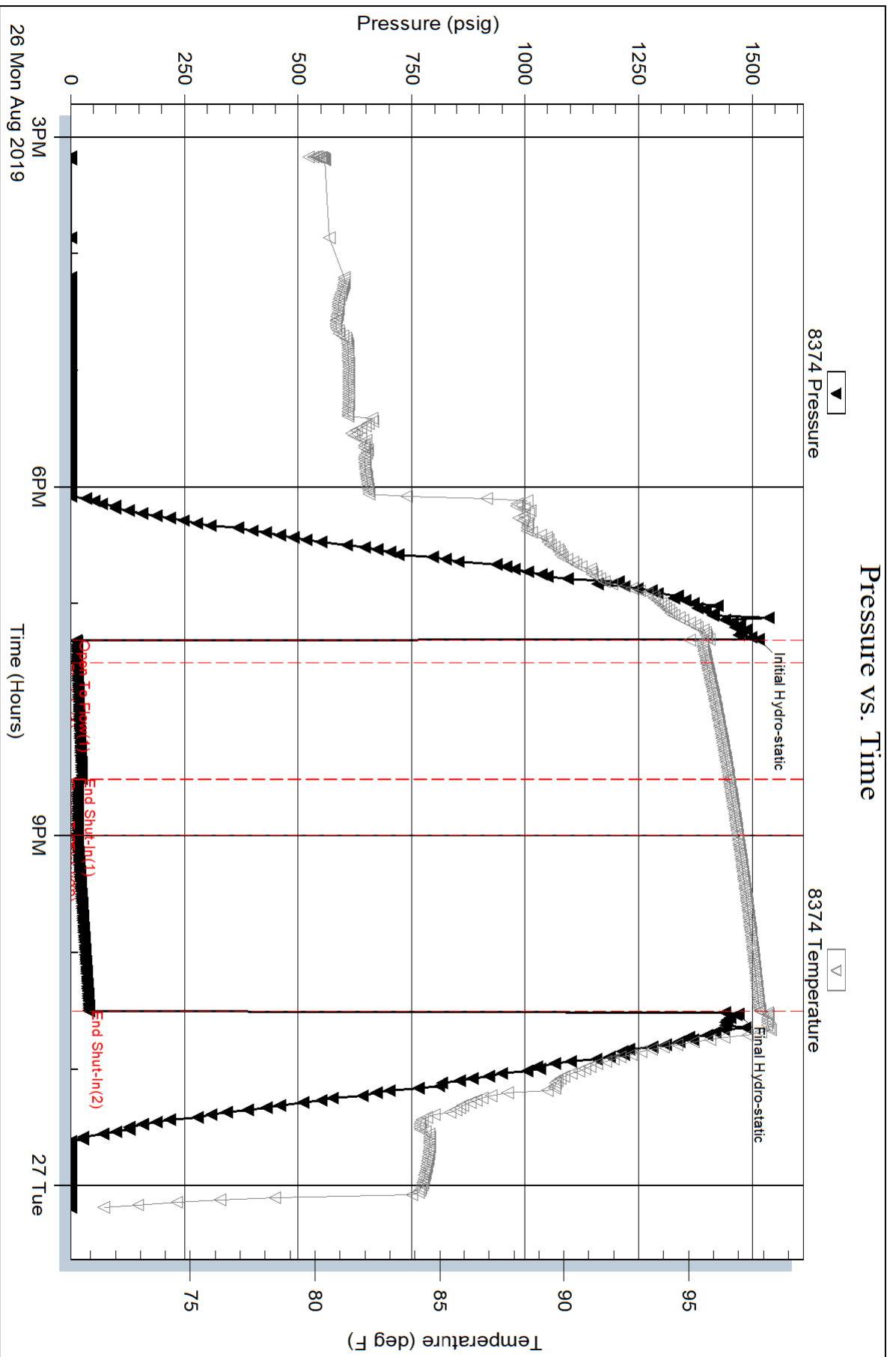
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1&1/2#

Sampler= 100mL Mud 100%M @25PSI



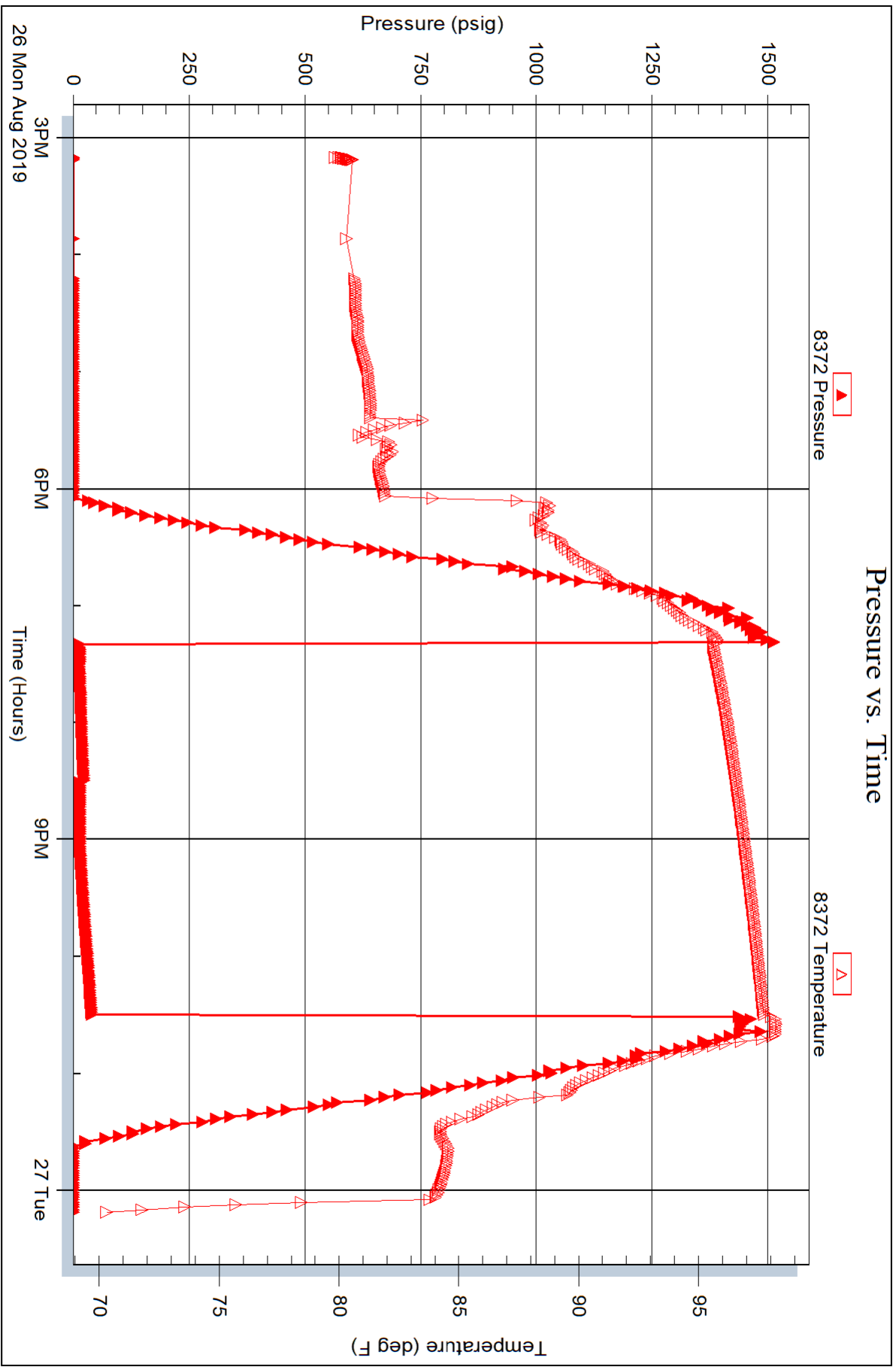
Serial #: 8372

Inside

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 1



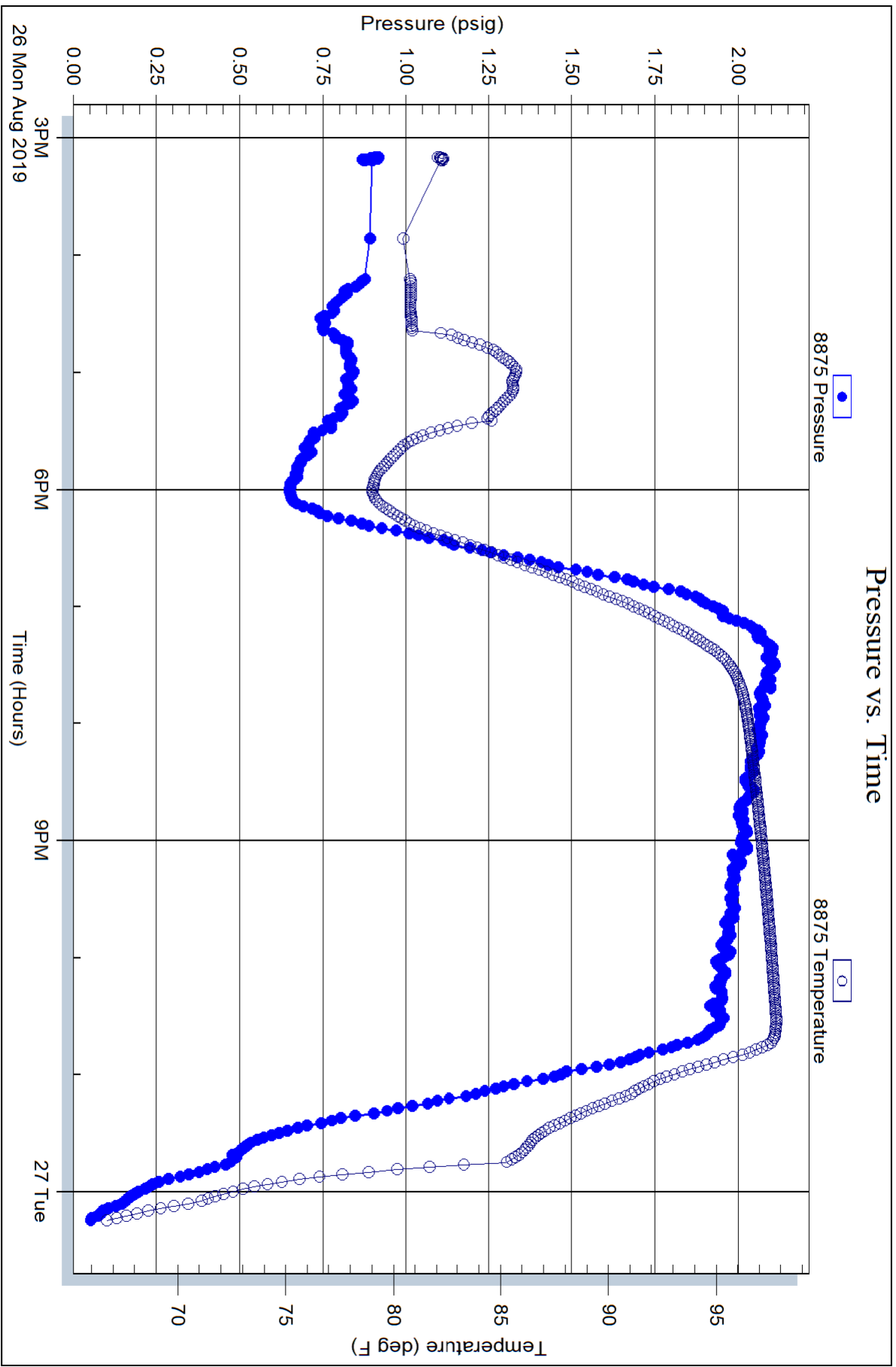
Serial #: 8875

Fluid

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

ATTN: Wyatt Urban

Job Ticket: 65986

DST#: 2

Test Start: 2019.08.27 @ 11:41:00

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:38:47

Time Test Ended: 18:22:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3205.00 ft (KB) To 3270.00 ft (KB) (TVD)

Reference Elevations: 2053.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

2045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374 Inside

Press@RunDepth: 30.84 psig @ 3209.00 ft (KB)

Capacity: psig

Start Date: 2019.08.27 End Date: 2019.08.27

Last Calib.: 2019.08.27

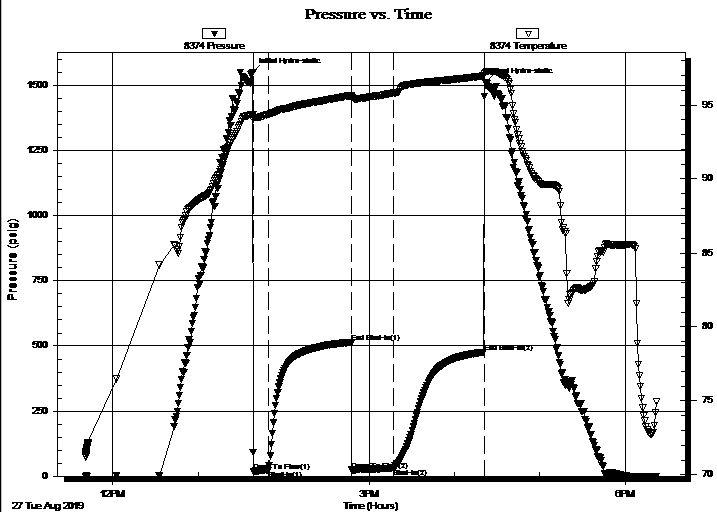
Start Time: 11:41:00 End Time: 18:22:02

Time On Btm: 2019.08.27 @ 13:38:17

Time Off Btm: 2019.08.27 @ 16:22:02

TEST COMMENT: 10-IF-Very Weak Surface Blow
60-ISI-No Return
30-FF-Very Weak Surface Blow
60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1550.66	94.38	Initial Hydro-static
1	18.33	94.16	Open To Flow (1)
11	22.63	94.36	Shut-In(1)
69	513.10	95.60	End Shut-In(1)
70	23.80	95.48	Open To Flow (2)
99	30.84	95.80	Shut-In(2)
163	476.45	97.00	End Shut-In(2)
164	1511.53	97.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100%M w/oil specks	0.18

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

ATTN: Wyatt Urban

Job Ticket: 65986

DST#: 2

Test Start: 2019.08.27 @ 11:41:00

GENERAL INFORMATION:

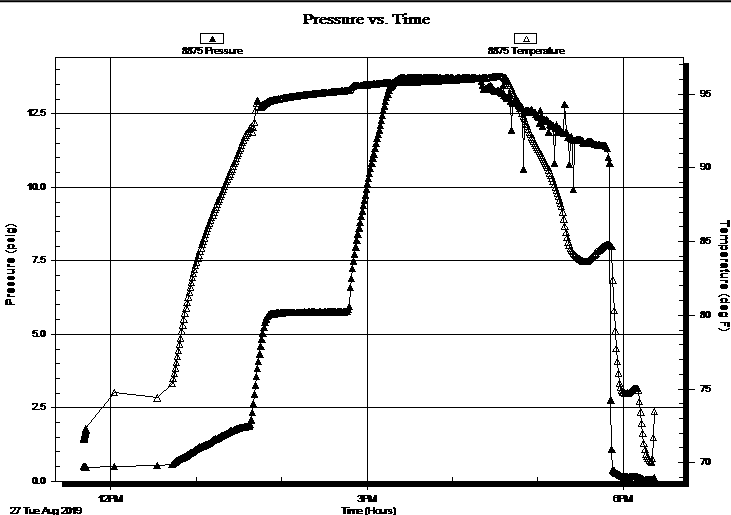
Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:38:47
Time Test Ended: 18:22:02
Interval: 3205.00 ft (KB) To 3270.00 ft (KB) (TVD)
Total Depth: 3270.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84
Reference Elevations: 2053.00 ft (KB)
2045.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8875

Fluid

Press@RunDepth: psig @ 3169.00 ft (KB) Capacity: psig
Start Date: 2019.08.27 End Date: 2019.08.27 Last Calib.: 2019.08.27
Start Time: 11:41:00 End Time: 18:22:02 Time On Btm:
Time Off Btm:

TEST COMMENT: 10-IF-Very Weak Surface Blow
60-ISI-No Return
30-FF-Very Weak Surface Blow
60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100%M w/oil specks	0.18

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65986

DST#: 2

ATTN: Wyatt Urban

Test Start: 2019.08.27 @ 11:41:00

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:38:47

Time Test Ended: 18:22:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3205.00 ft (KB) To 3270.00 ft (KB) (TVD)

Reference Elevations: 2053.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

2045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8372 Inside

Press@RunDepth: psig @ 3209.00 ft (KB)

Capacity: psig

Start Date: 2019.08.27 End Date: 2019.08.27

Last Calib.: 2019.08.27

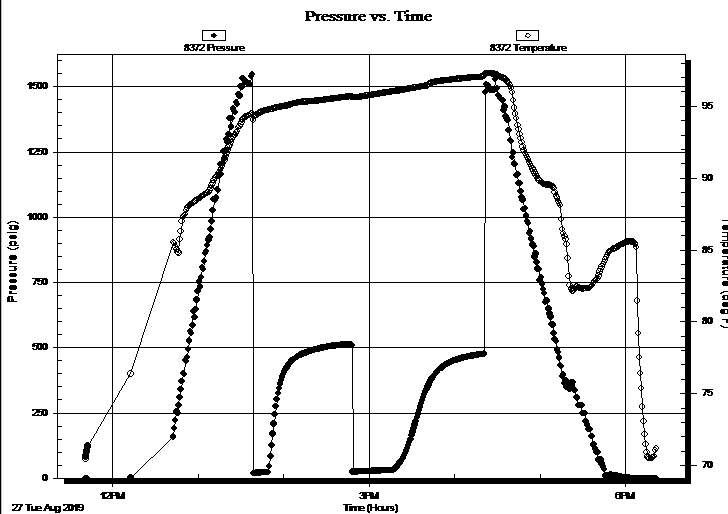
Start Time: 11:41:00 End Time: 18:22:02

Time On Btm:

Time Off Btm:

TEST COMMENT: 10-IF-Very Weak Surface Blow
60-ISI-No Return
30-FF-Very Weak Surface Blow
60-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100%M w/oil specks	0.18

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65986

DST#: 2

ATTN: Wyatt Urban

Test Start: 2019.08.27 @ 11:41:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud 100%M w /oil specks	0.184

Total Length: 25.00 ft Total Volume: 0.184 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

Sampler- 300mL Mud 100%M @70PSI

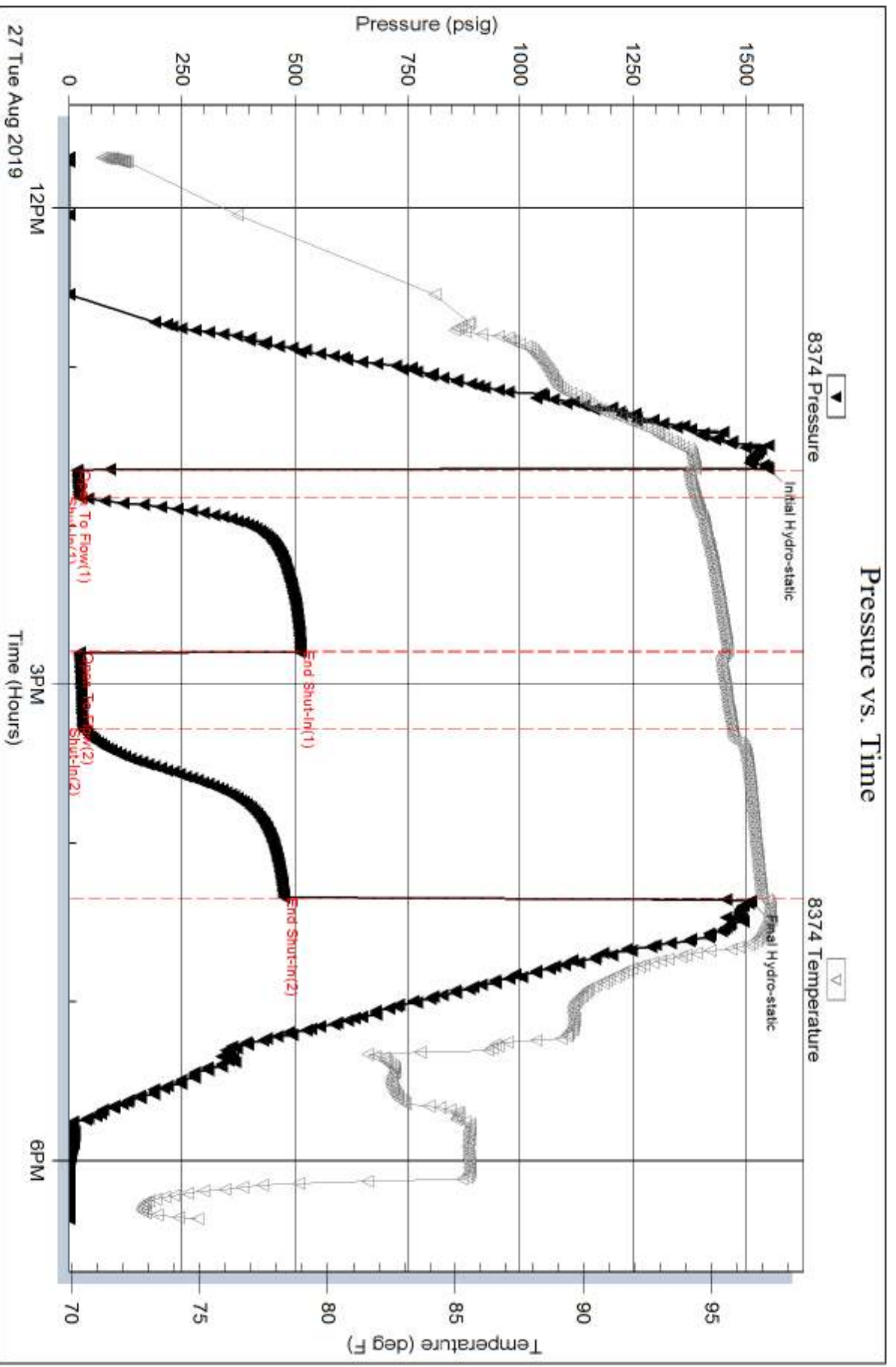
Serial #: 8374

Inside

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 2



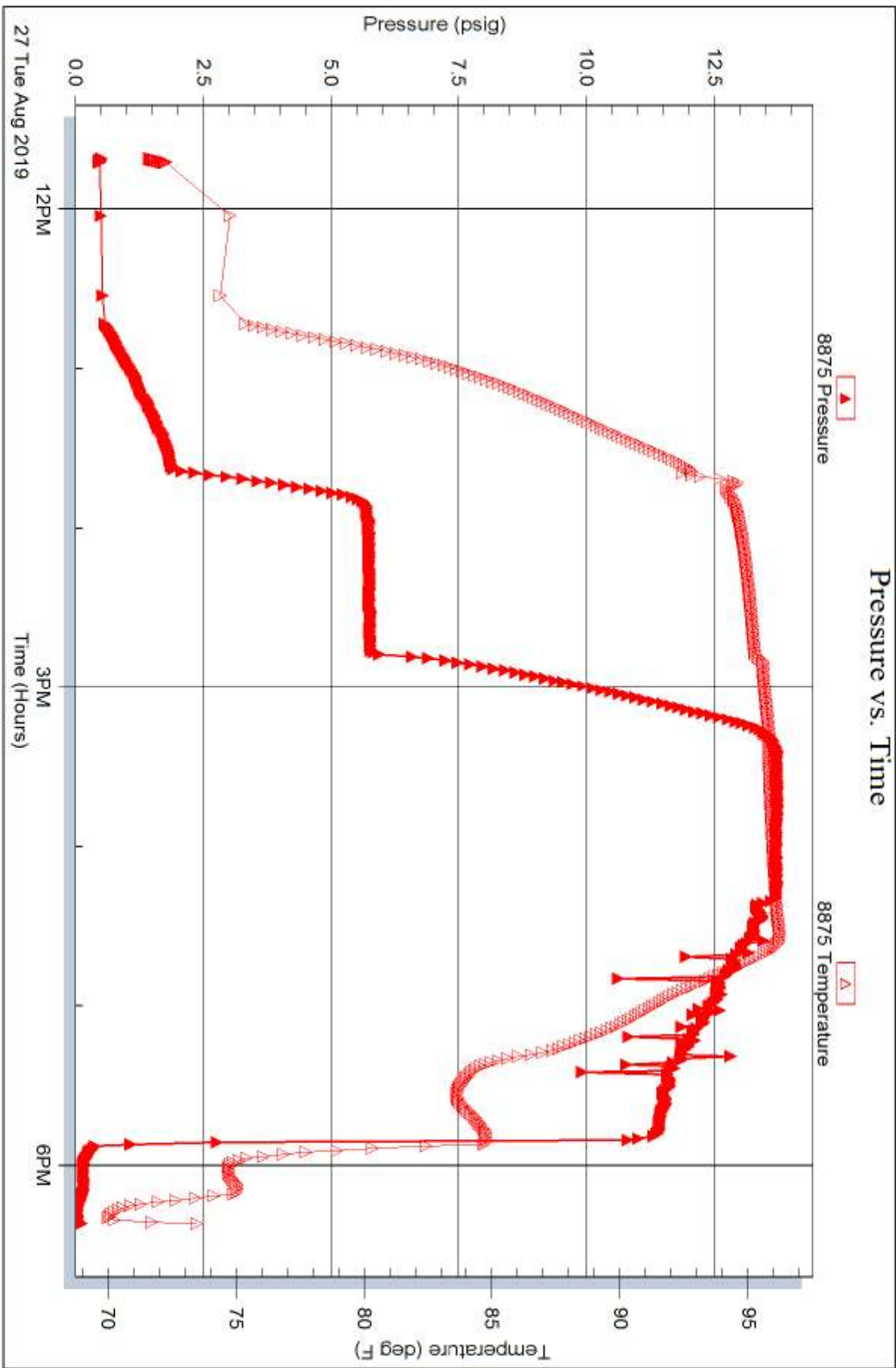
Serial #: 8875

Fluid

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65986

Printed: 2019.08.27 @ 18:36:44

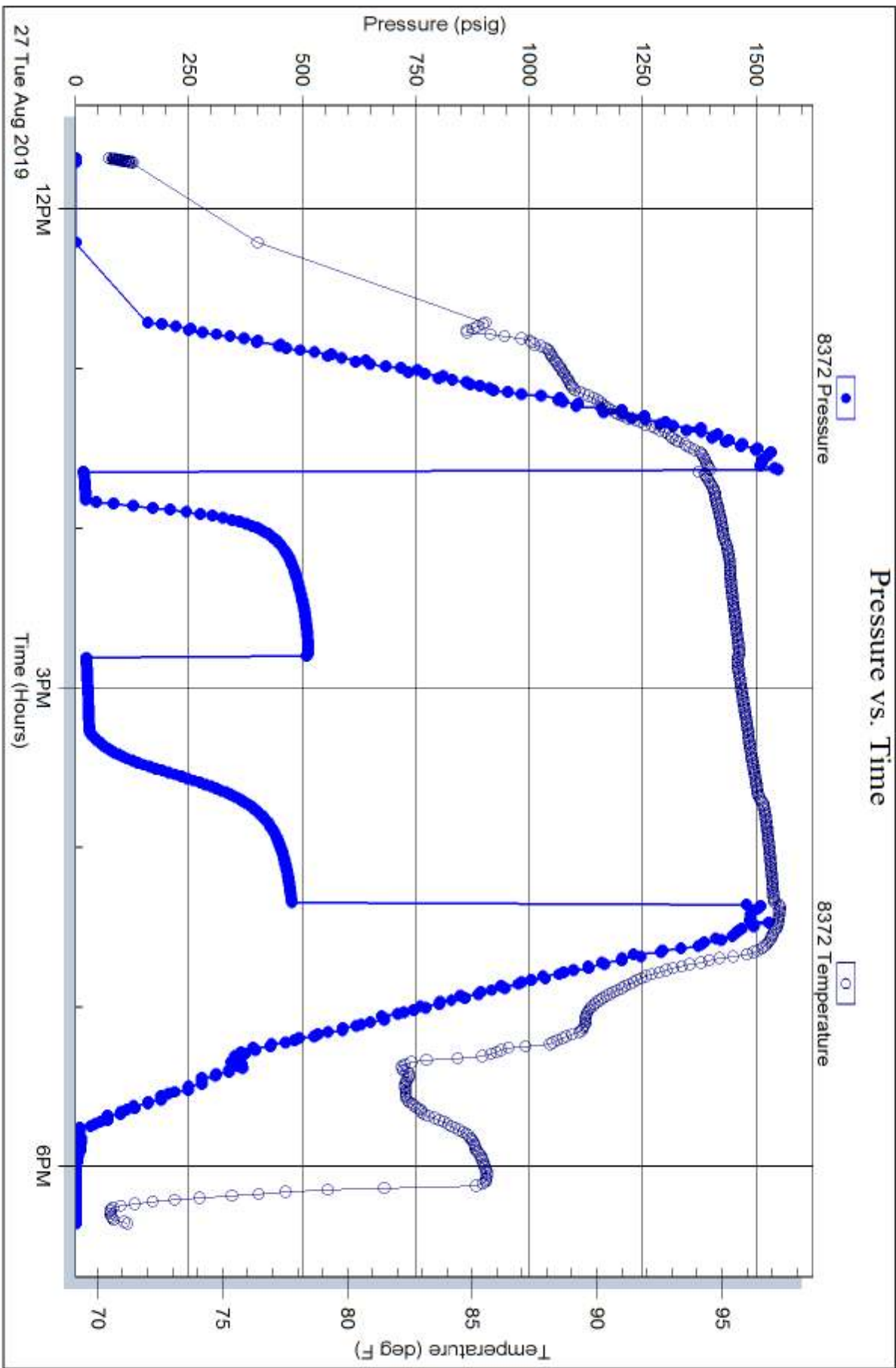
Serial #: 8372

Inside

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 2



Tribolite Testing, Inc

Ref. No: 65986

Printed: 2019.08.27 @ 18:36:45



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65987

DST#: 3

ATTN: Wyatt Urban

Test Start: 2019.08.28 @ 04:27:00

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:02

Time Test Ended: 10:58:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3261.00 ft (KB) To 3318.00 ft (KB) (TVD)

Reference Elevations: 2053.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

2045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374 Inside

Press@RunDepth: 45.52 psig @ 3264.00 ft (KB)

Capacity: psig

Start Date: 2019.08.28

End Date:

2019.08.28

Last Calib.:

2019.08.28

Start Time: 04:27:01

End Time:

10:58:02

Time On Btm:

2019.08.28 @ 06:22:47

Time Off Btm:

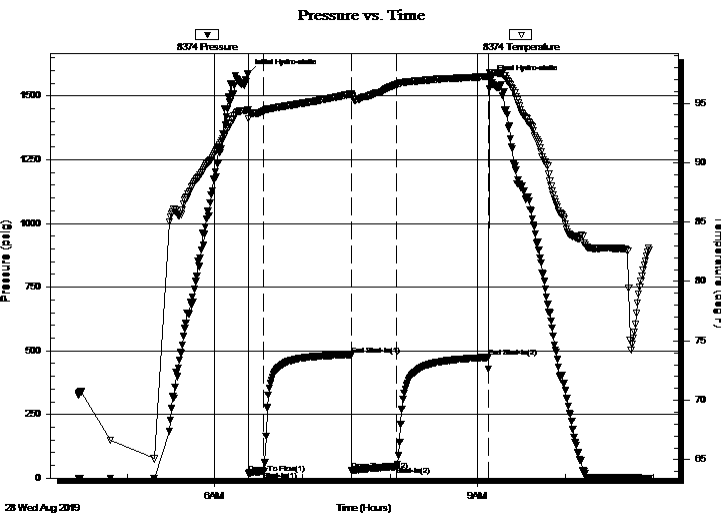
2019.08.28 @ 09:08:17

TEST COMMENT: 10-IF-Weak; Built to 3/4"

60-ISI-No Return

30-FF-Weak; Built to 2 1/4"

60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.03	94.45	Initial Hydro-static
1	17.76	93.72	Open To Flow (1)
11	27.15	94.36	Shut-In(1)
71	483.47	95.77	End Shut-In(1)
71	29.89	95.61	Open To Flow (2)
102	45.52	96.59	Shut-In(2)
165	474.19	97.27	End Shut-In(2)
166	1564.84	97.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
72.00	VSOCM 1%O 99%M	0.53

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65987

DST#: 3

ATTN: Wyatt Urban

Test Start: 2019.08.28 @ 04:27:00

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:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
72.00	VSOCM 1%O 99%M	0.529

Total Length: 72.00 ft Total Volume: 0.529 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

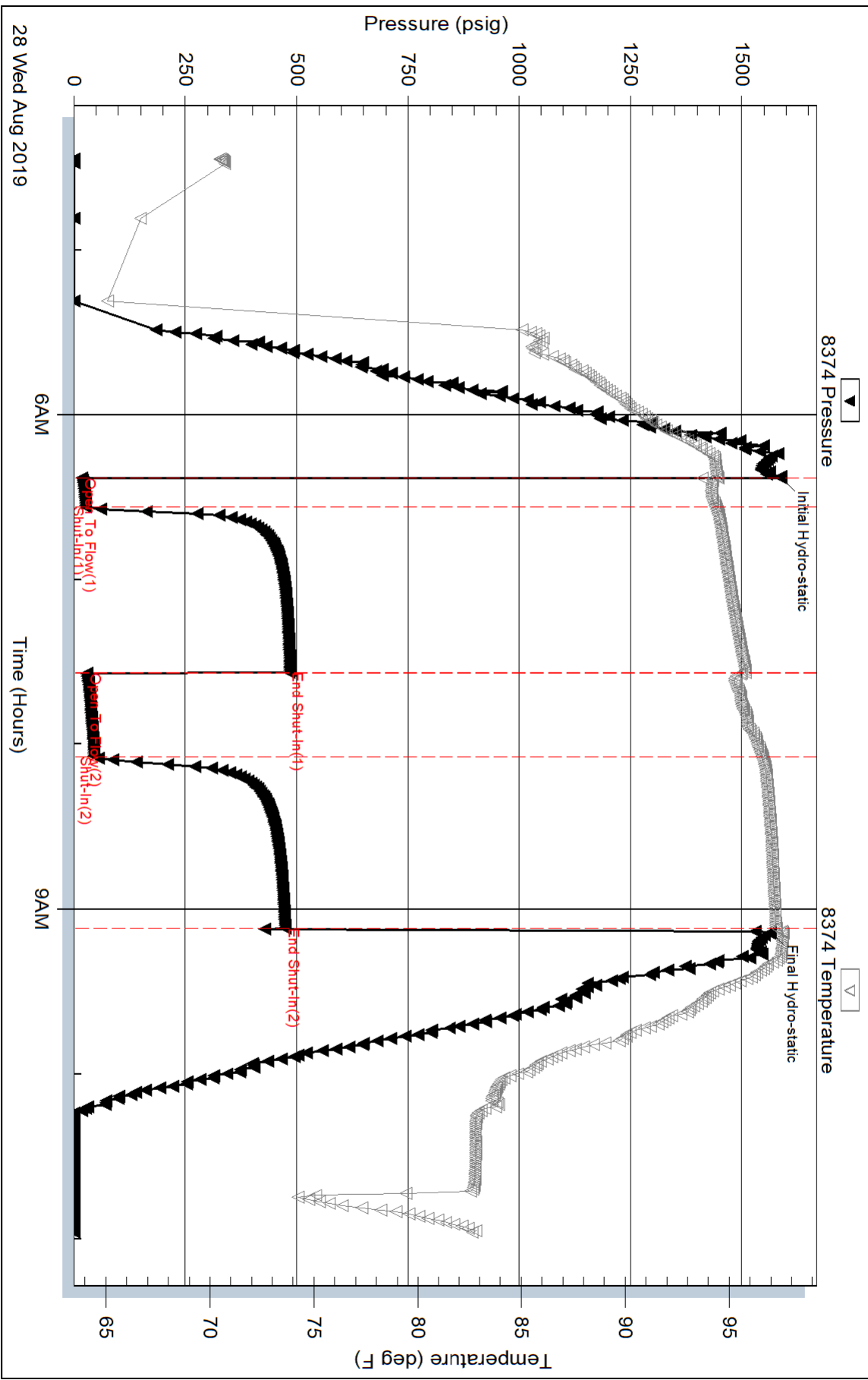
Laboratory Name:

Laboratory Location:

Recovery Comments: 3/4#LCM

Sampler-20mL Oil 200mL Mud @325PSI

Pressure vs. Time



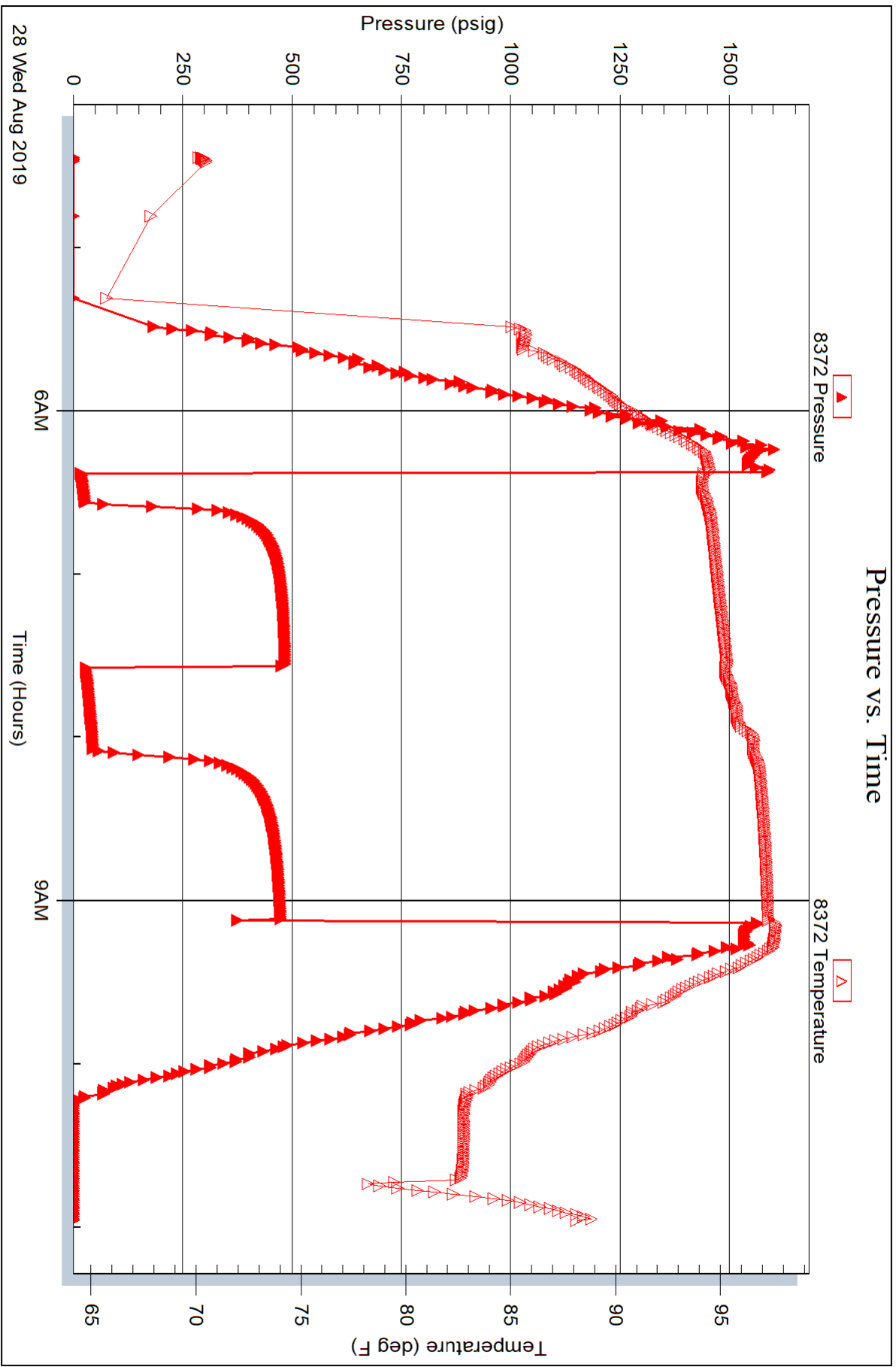
Serial #: 8372

Inside

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 3



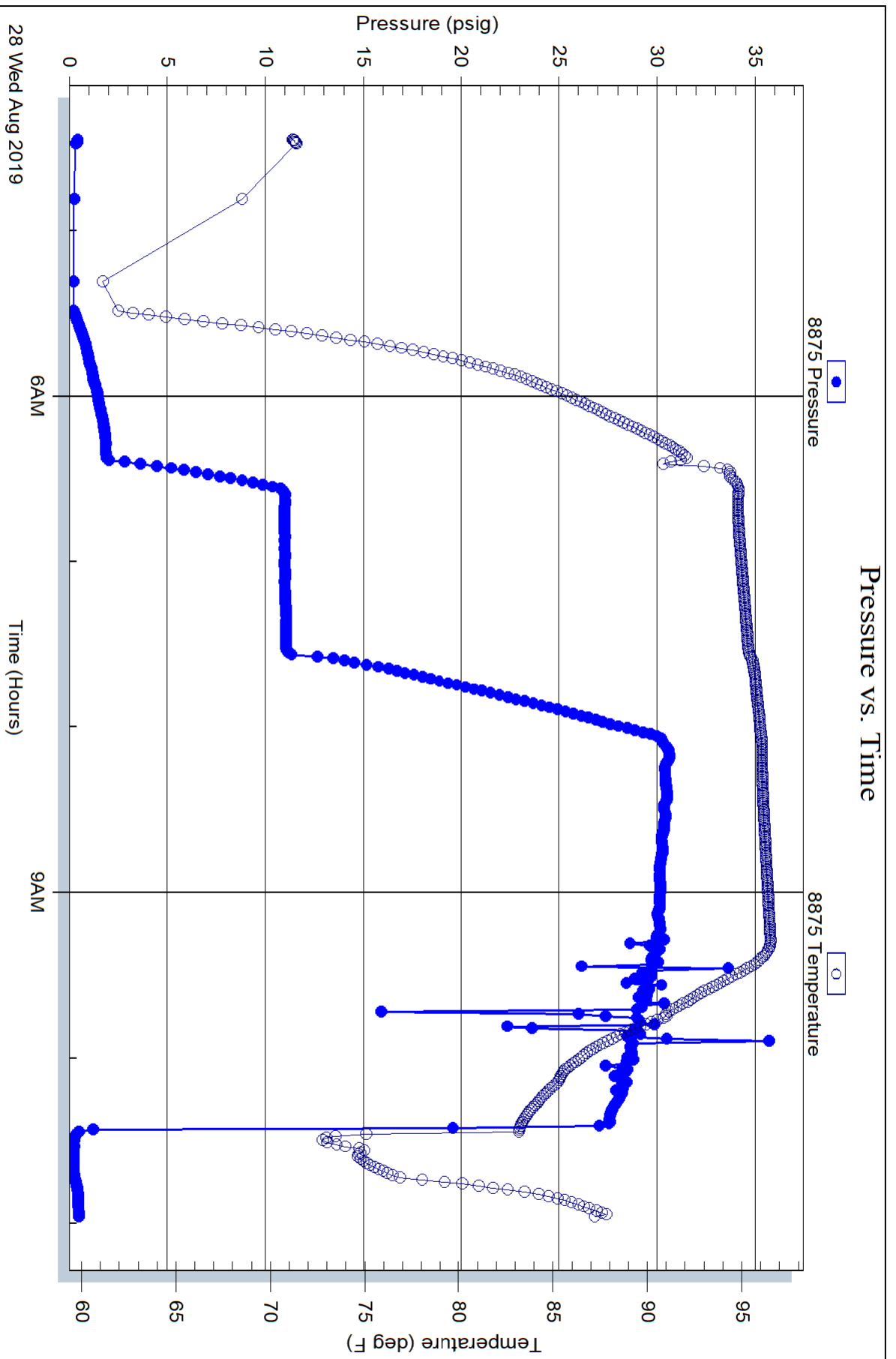
Serial #: 8875

Fluid

Samuel Gary Jr & Associates Inc

32-95-16w Rocks KS

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65988

DST#: 4

ATTN: Wyatt Urban

Test Start: 2019.08.28 @ 23:41:00

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:53:02

Time Test Ended: 06:50:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3324.00 ft (KB) To 3420.00 ft (KB) (TVD)

Reference Elevations: 2053.00 ft (KB)

Total Depth: 3420.00 ft (KB) (TVD)

2045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374 Inside

Press@RunDepth: 25.08 psig @ 3328.00 ft (KB)

Capacity: psig

Start Date: 2019.08.28

End Date:

2019.08.29

Last Calib.:

2019.08.29

Start Time: 23:41:01

End Time:

06:50:02

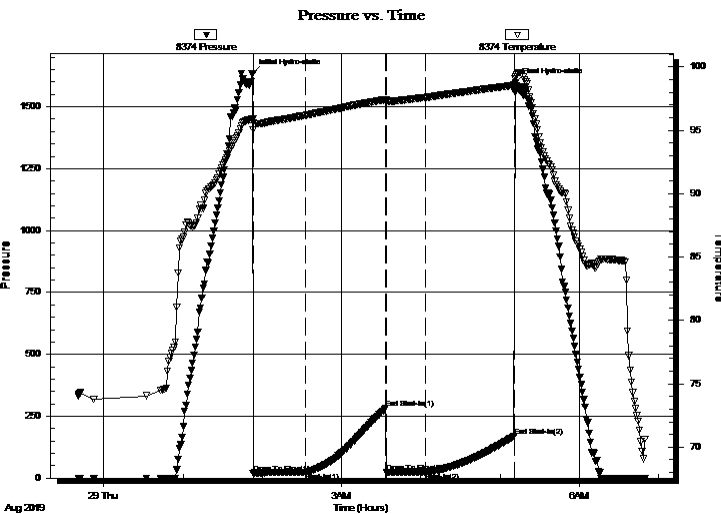
Time On Btm:

2019.08.29 @ 01:52:47

Time Off Btm:

2019.08.29 @ 05:11:32

TEST COMMENT: 40- Built to 1/4"; Tried closing tool @ 10 min; tool wouldnt turn due to faulty slip dyes; took 30 mins to change
60-ISI-No Return
30-FF-Weak Surface Blow
60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1634.80	95.92	Initial Hydro-static
1	20.59	95.04	Open To Flow (1)
40	23.22	96.17	Shut-In(1)
101	281.40	97.39	End Shut-In(1)
101	24.16	97.37	Open To Flow (2)
131	25.08	97.59	Shut-In(2)
198	169.13	98.58	End Shut-In(2)
199	1595.31	99.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/oil specks 100%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65988

DST#: 4

ATTN: Wyatt Urban

Test Start: 2019.08.28 @ 23:41:00

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:53:02

Time Test Ended: 06:50:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: **3324.00 ft (KB) To 3420.00 ft (KB) (TVD)**

Reference Elevations: 2053.00 ft (KB)

Total Depth: 3420.00 ft (KB) (TVD)

2045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8372

Inside

Press@RunDepth: psig @ 3328.00 ft (KB)

Capacity: psig

Start Date: 2019.08.28

End Date:

2019.08.29

Last Calib.:

2019.08.29

Start Time: 23:41:01

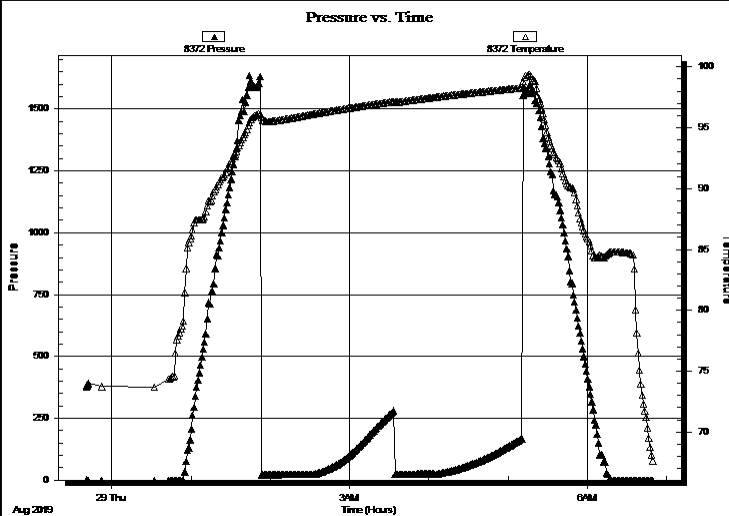
End Time:

06:50:02

Time On Btm:

Time Off Btm:

TEST COMMENT: 40- Built to 1/4"; Tried closing tool @ 10 min; tool wouldnt turn due to faulty slip dyes; took 30 mins to change
60-ISI-No Return
30-FF-Weak Surface Blow
60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w /oil specks 100%M	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65988

DST#: 4

ATTN: Wyatt Urban

Test Start: 2019.08.28 @ 23:41:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 60000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w /oil specks 100%M	0.073

Total Length: 10.00 ft Total Volume: 0.073 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

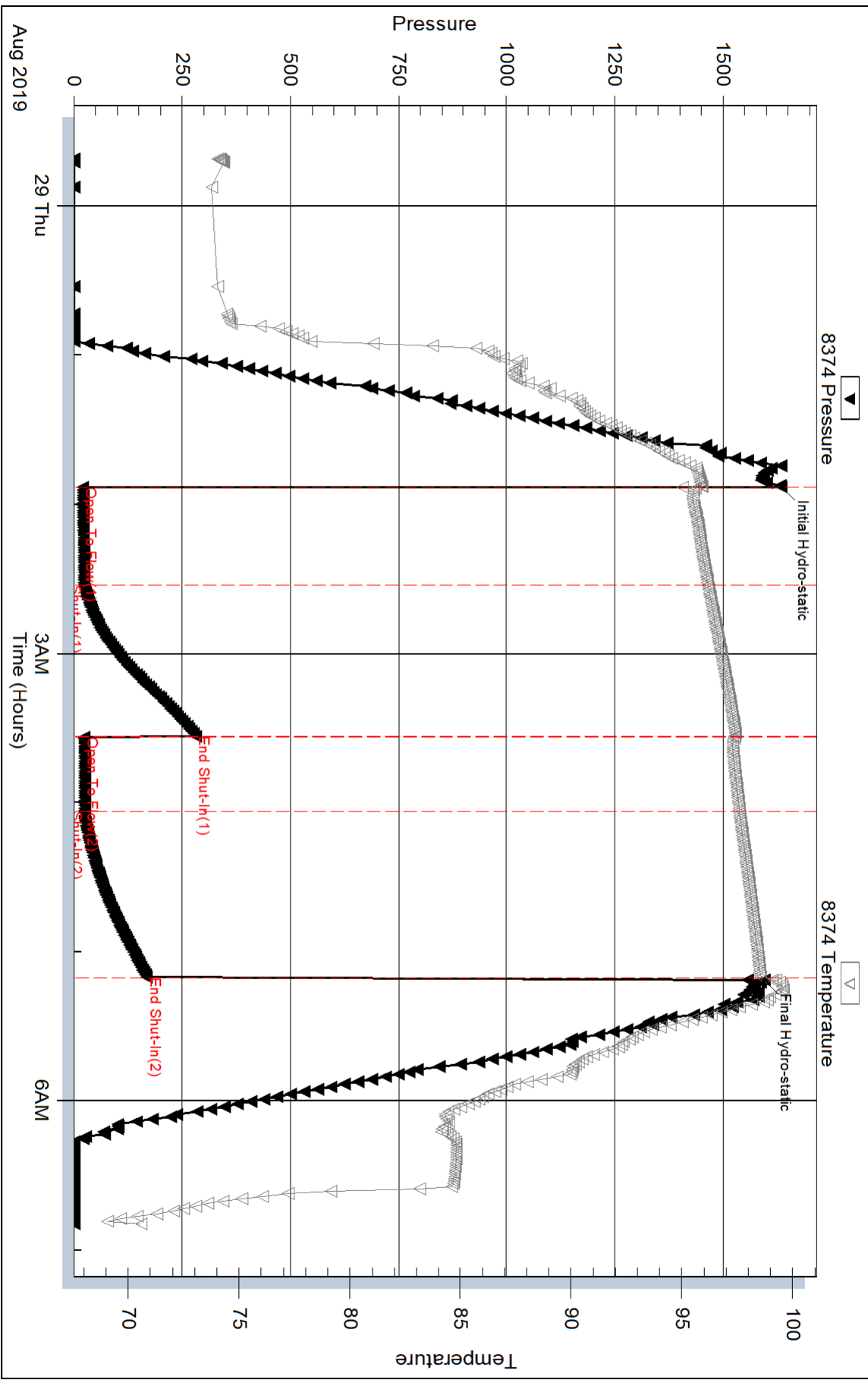
Laboratory Name:

Laboratory Location:

Recovery Comments: 3/4#LCM

Sampler-10ml Oil 100ml Mud @40PSI

Pressure vs. Time



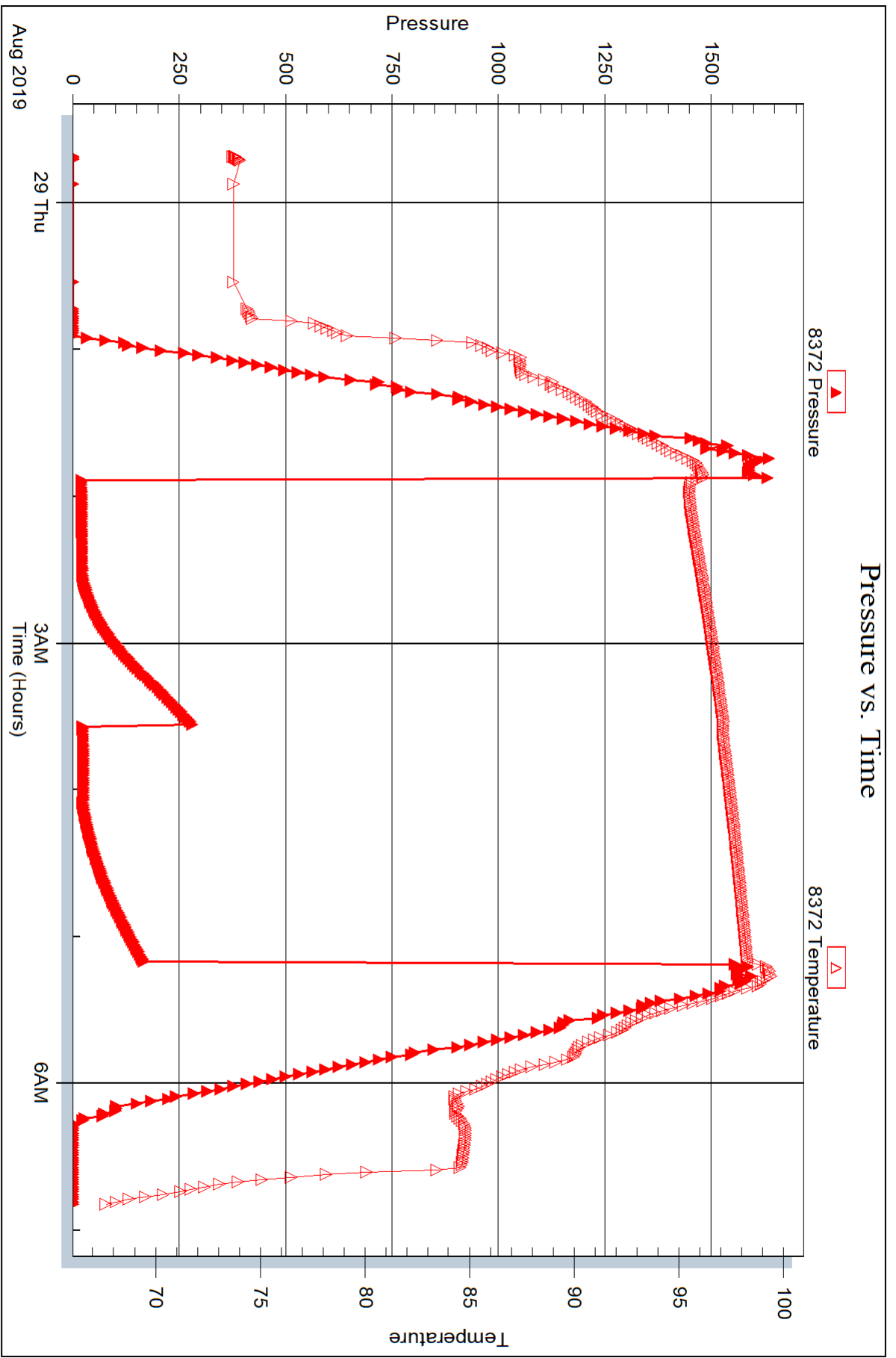
Serial #: 8372

Inside

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 4



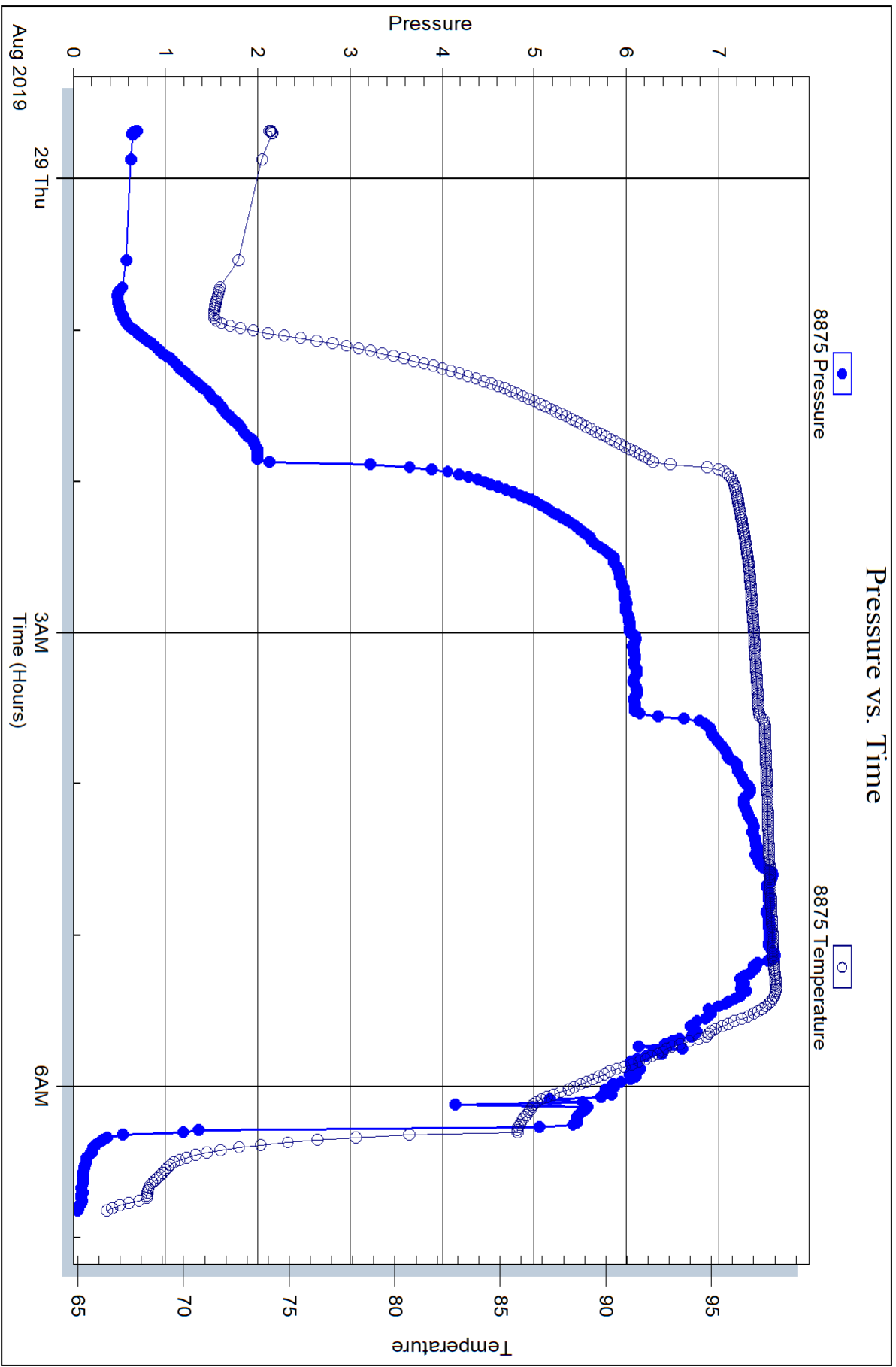
Serial #: 8875

Fluid

Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 65988

Printed: 2019.08.29 @ 07:39:17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

ATTN: Wyatt Urban

Job Ticket: 65989

DST#: 5

Test Start: 2019.08.29 @ 20:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:48:02

Time Test Ended: 05:06:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3514.00 ft (KB) To 3526.00 ft (KB) (TVD)

Reference Elevations: 2053.00 ft (KB)

Total Depth: 3526.00 ft (KB) (TVD)

2045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374

Inside

Press@RunDepth: 119.87 psig @ 3515.00 ft (KB)

Capacity: psig

Start Date: 2019.08.29

End Date:

2019.08.30

Last Calib.:

2019.08.30

Start Time: 20:45:01

End Time:

05:06:02

Time On Btm:

2019.08.29 @ 23:47:47

Time Off Btm:

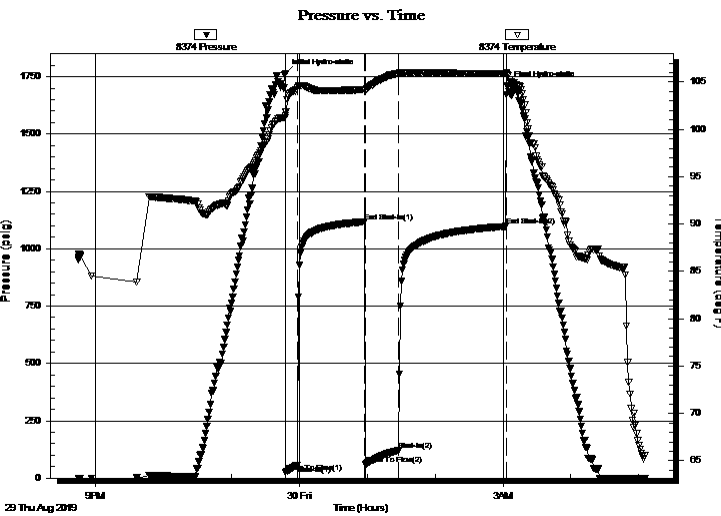
2019.08.30 @ 03:04:02

TEST COMMENT: 10-IF-Fair; Built to 7&1/4"

60-ISI-No Return

30-FF-BOB 22 mins; Built to 12&1/2"

90-FSI-Weak Surface; Died 45 mins in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.63	101.84	Initial Hydro-static
1	23.80	101.45	Open To Flow (1)
11	55.63	104.41	Shut-In(1)
71	1116.80	104.18	End Shut-In(1)
71	60.81	104.03	Open To Flow (2)
100	119.87	105.92	Shut-In(2)
196	1097.73	105.88	End Shut-In(2)
197	1712.51	105.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GSOCMW 5%G 5%O 10%M 80%W	0.37
60.00	GOCMW 5%G 10%O 30%M 55%W	0.44
60.00	GWCOM 10%G 10%W 15%O 65%M	0.44
50.00	GO 15%G 85%O	0.42
0.00	60' GIP 100%G	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65989

DST#: 5

ATTN: Wyatt Urban

Test Start: 2019.08.29 @ 20:45:00

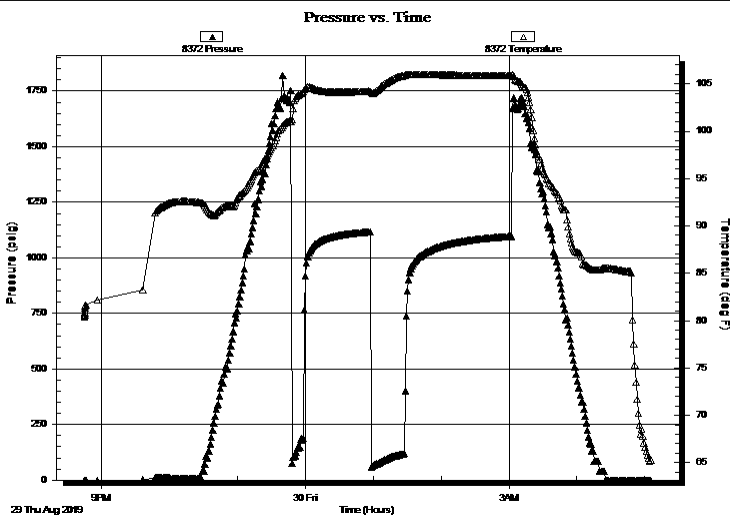
GENERAL INFORMATION:

Formation: Arbuckle				Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:		ft (KB)		Tester: Spencer J Staab
Time Tool Opened: 23:48:02				Unit No: 84
Time Test Ended: 05:06:02				Reference Elevations: 2053.00 ft (KB)
Interval: 3514.00 ft (KB) To 3526.00 ft (KB) (TVD)				2045.00 ft (CF)
Total Depth: 3526.00 ft (KB) (TVD)				KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair			

Serial #: 8372 Outside

Press@RunDepth:	psig @	3515.00 ft (KB)	Capacity:	psig
Start Date:	2019.08.29	End Date:	2019.08.30	Last Calib.: 2019.08.30
Start Time:	20:45:01	End Time:	05:06:02	Time On Btm:
				Time Off Btm:

TEST COMMENT: 10-IF-Fair; Built to 7&1/4"
60-ISI-No Return
30-FF-BOB 22 mins; Built to 12&1/2"
90-FSI-Weak Surface; Died 45 mins in



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GSOCMW 5%G 5%O 10%M 80%W	0.37
60.00	GOCMW 5%G 10%O 30%M 55%W	0.44
60.00	GWCOM 10%G 10%W 15%O 65%M	0.44
50.00	GO 15%G 85%O	0.42
0.00	60' GIP 100%G	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

Samuel Gary Jr & Associates Inc

Willy Nilly #16A-32-916

1515 Wynkoop STE 700
Denver CO 80202+2062

32-9s-16w Rooks KS

Job Ticket: 65989

DST#: 5

ATTN: Wyatt Urban

Test Start: 2019.08.29 @ 20:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
50.00	GSOCMW 5%G 5%O 10%M 80%W	0.367
60.00	GOCMW 5%G 10%O 30%M 55%W	0.441
60.00	GWCOM 10%G 10%W 15%O 65%M	0.441
50.00	GO 15%G 85%O	0.415
0.00	60' GIP 100%G	0.000

Total Length: 220.00 ft

Total Volume: 1.664 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

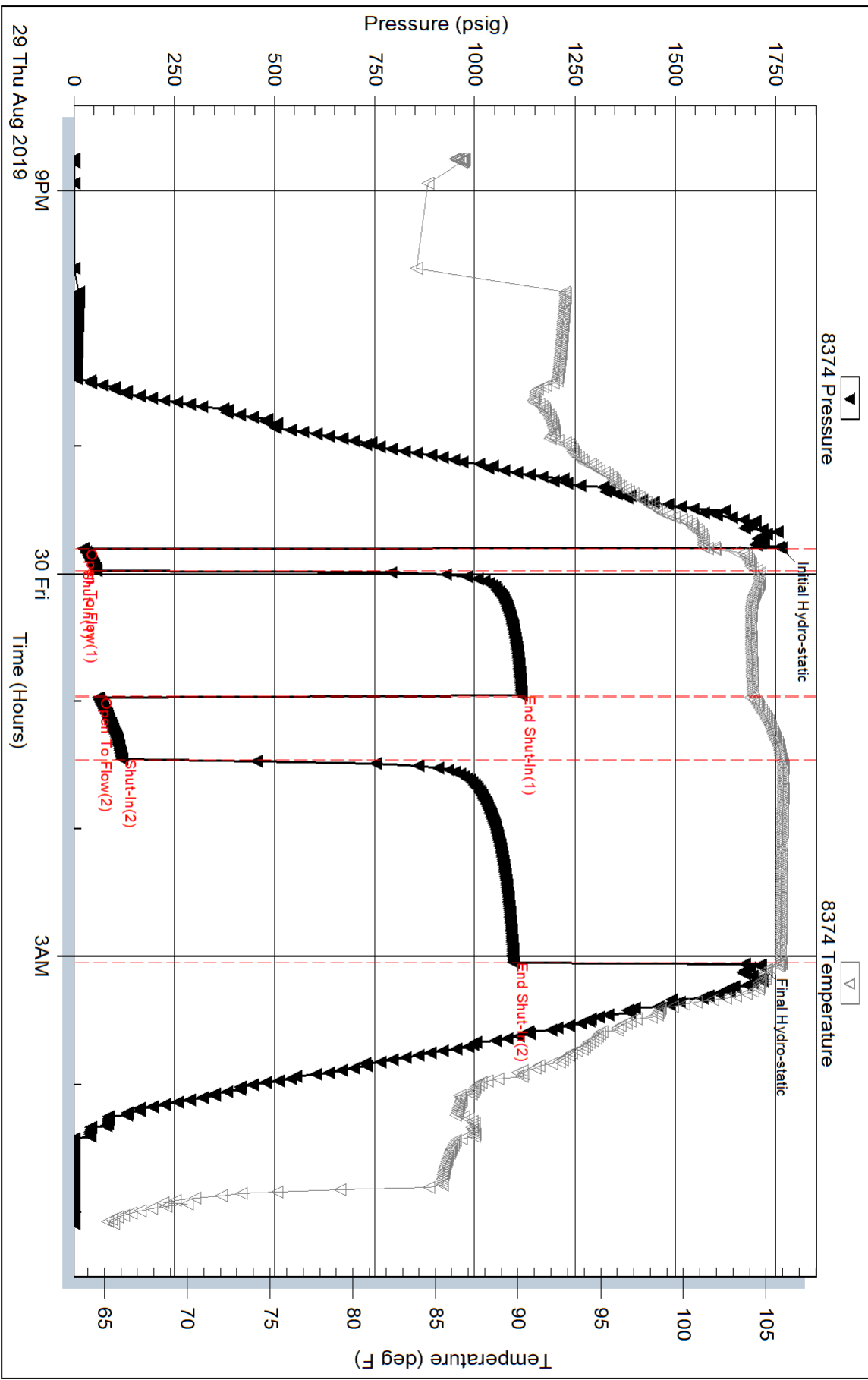
Laboratory Location:

Recovery Comments: 2#LCM

RW=.301@66F

Sampler-100mL G, 500mL Oil, 600mL Mud, 800mL Water @535PSI

Pressure vs. Time

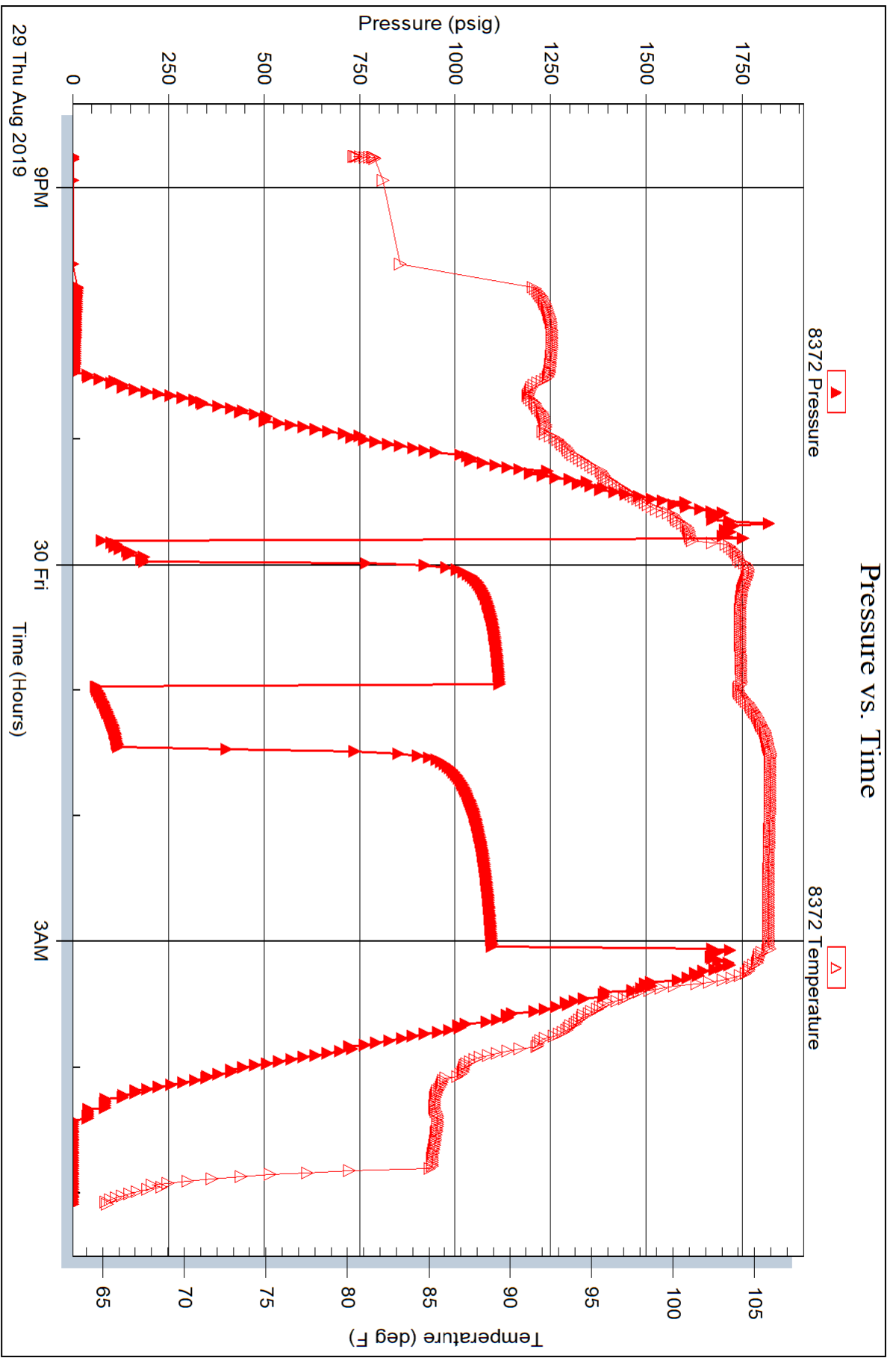


Serial #: 8372

Outside Samuel Gary Jr & Associates Inc

32-95-16w Rooks KS

DST Test Number: 5



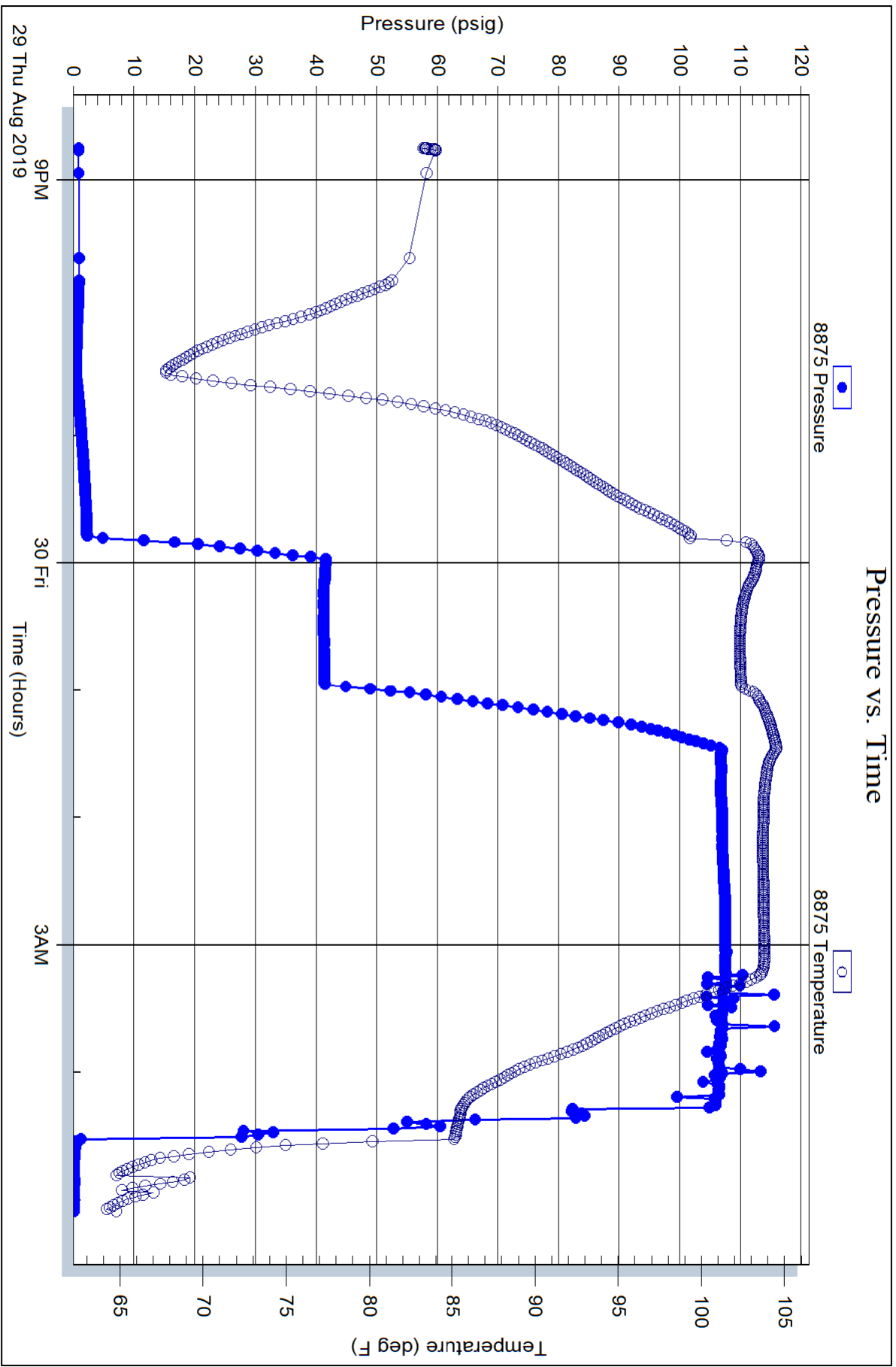
Serial #: 8875

Fluid

Samuel Gary Jr & Associates Inc

32-95-16w Rocks KS

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65989

Printed: 2019.08.30 @ 07:07:22



Musgrove

Petroleum Geology
212 Main Street, Claflin KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Sam Gary Jr. & Associates, inc.
 LEASE Willy Nilly 16A-32-916
 FIELD Wildcat
 LOCATION (1100' FSL & 2045' FEL)
 SEC 32 TWSP 9s RGE 16w
 COUNTY Rooks STATE Kansas

CONTRACTOR Discovery Drilling, inc. (rig # 2)
 SPUD 8/22/2019 COMP 08/29/2019
 RTD 3526' LTD 3526'
 MUD UP 2775' TYPE MUD Chemical

ELEVATIONS
 KB 2053'
 DF 2051'
 GL 2045'
 Measurements Are All
 From KB

CASING
 SURFACE 8 5/8" @ 258'
 PRODUCTION None

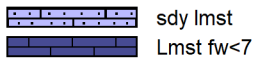
ELECTRICAL SURVEYS
 By: WEATHERFORD

SAMPLES SAVED FROM 2800' TO RTD
 DRILLING TIME KEPT FROM 2800' TO RTD
 SAMPLES EXAMINED FROM 2800' TO RTD
 GEOLOGICAL SUPERVISION FROM 2830' TO RTD
 GEOLOGIST ON WELL Wyatt Urban (2850-3090) & Jim Musgrove (3090-RTD)

FORMATION TOPS	LOG	SAMPLES
Anhydrite	1258 (+795)	
B. Anhydrite	1291 (+762)	
Topeka	2937 (-884)	
Heebner	3161 (-1108)	
Toronto	3181 (-1128)	
Lansing	3202 (-1149)	
Base KC	3449 (-1396)	
Conglomerate	3491 (-1438)	
Arbuckle	3514 (-1461)	
RTD	3526 (-1473)	
LTD	3526 (-1473)	

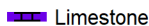
	32		
			X

ROCK TYPES



ACCESSORIES

STRINGER



OTHER SYMBOLS

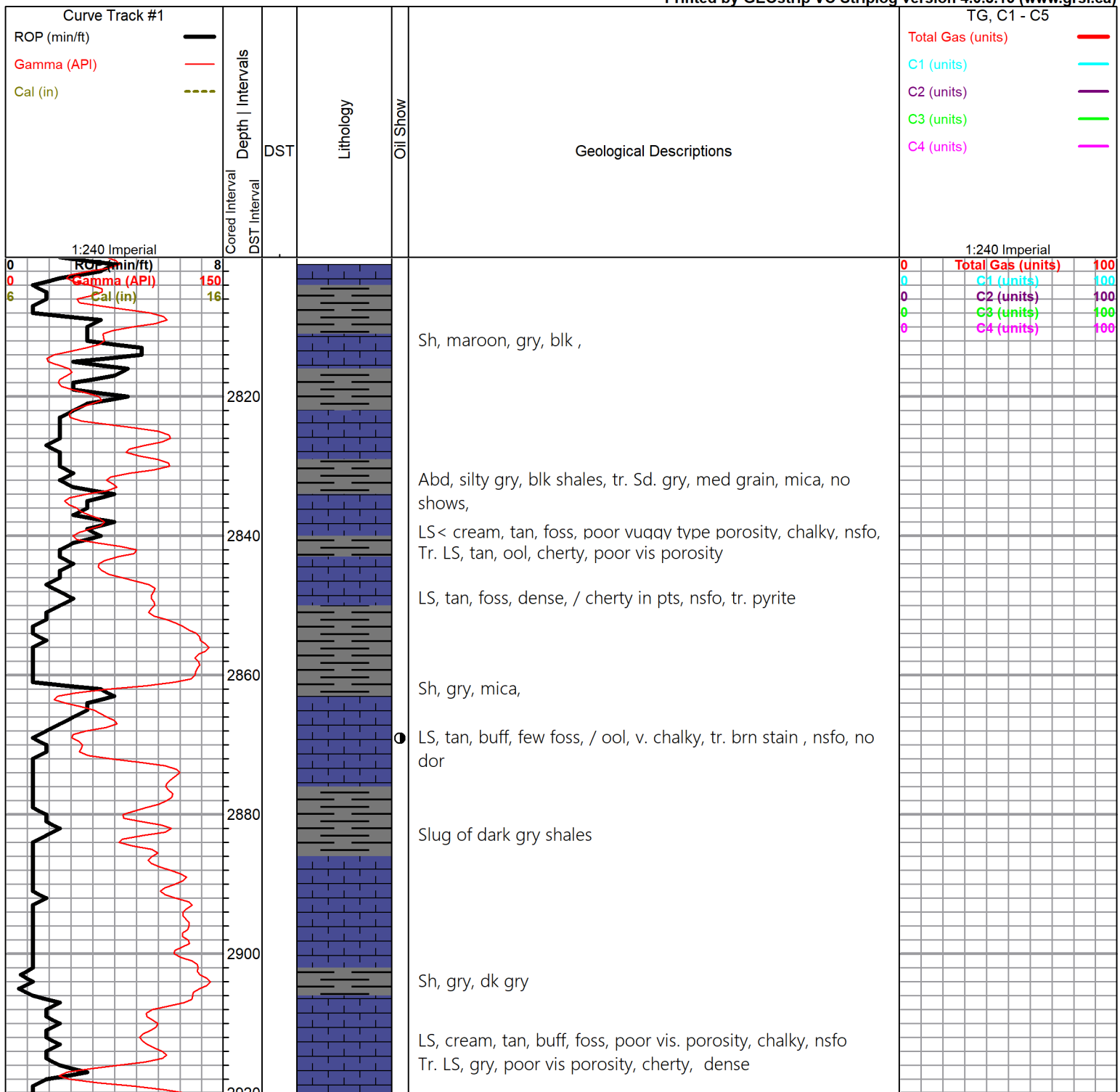
Oil Show

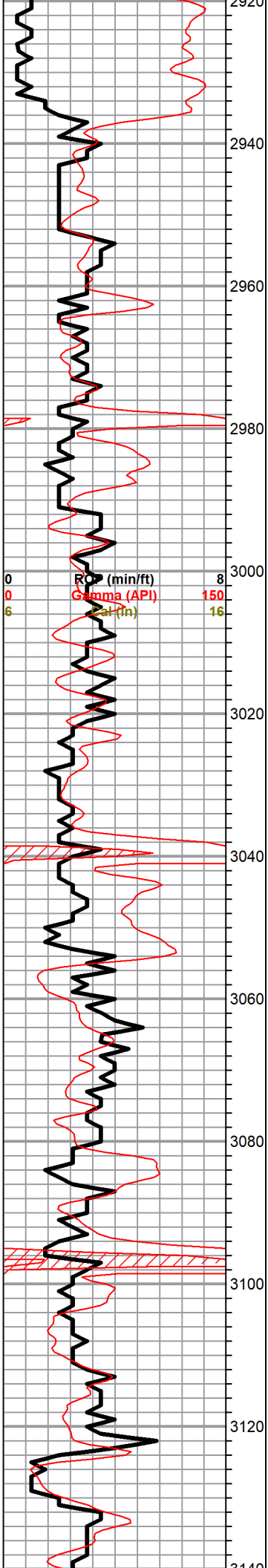
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

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





Slug dark gry, silty / mica, sh.

Sh, gry silty, blk carb

TOPEKA 2936.0 -883.0

LS, tan, poorly developed porosity, few foss, dense, no shows, no odor

LS, tan, buff, dol / suc. good p.p. type porosity, good inxln porosity lt. brn stain , sfo, odor in broken samples,

LS tan, buff, foss, poor vis. porosity, chalky, no shows,

LS, tan, gry, f- med xlnl , poorly developed vuggy type porosity, chalky, no shows,

LS, gry, dense, poor scattered porosity, chakly, tr. white & gry cherts

KING HILL 3034.0 0.0

Sh. black carb

LS, cream, tan, few foss, poor vis. porosity, chalky in pts, no show

LS, tan, brn, scattered p.p. porosity, few foss, sl. chaky, trl. brn stain, tr. spty-v. weak sfo, no odor ,

LS, tan, gry, dense, poor vis. porosity, no shows

LS, cream, tan, few foss, / ool, poor p.p porosity, v. chalky, tr. blk / brn stain, nsfo

QUEEN HILL 3094.0 -1068.0

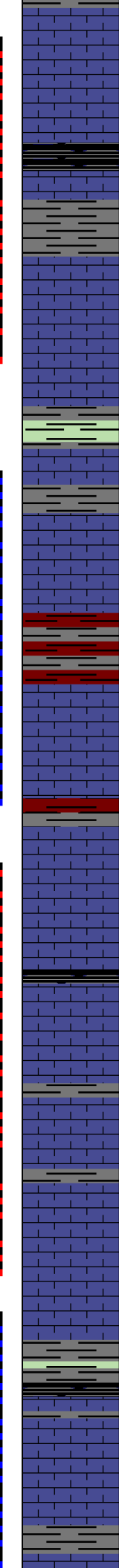
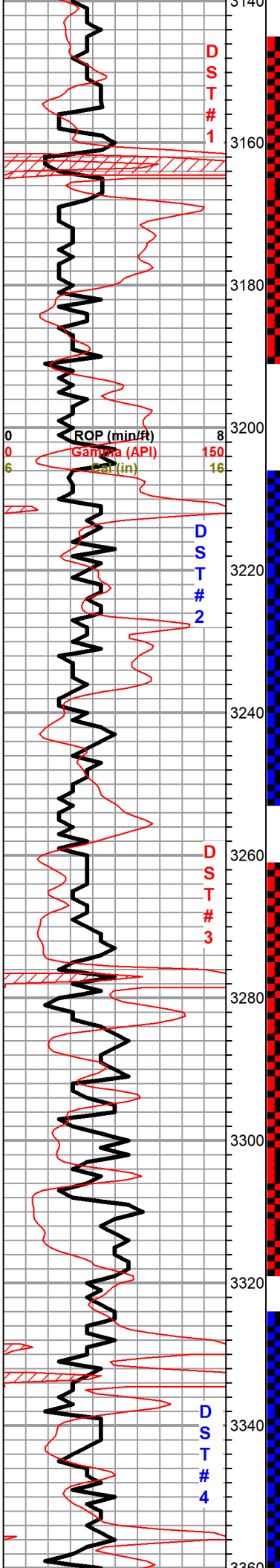
Tr. black carb sh.

LS, tan, brn, / few gry, scattered p.p. porosity, v. chalky, tr. brn stain, tr. sfo, ft. odor ,

PLATTSMOUTH 3121.0 -1068.0

LS< cream, tan, scattered p.p. porosity, few foss, chalky, tr. blk stain, tr. spty sfo, ??? odor

.41" STB



LS, tan, gry, dense, few foss, poor vis. porosity sh. cherty in pts, , no shows, no odor

LLS, cream, tan, few foss/ool, poor p.p. porosity, chalky, tr. brn stain, nsfo,

HEEBNER 3160.0 -1107.0

Sh black carb

LS, brn, dense, poor vis. porosity, no shows,
Sh, gry, silty, soft

TORONTO 3175.0 -1122.0

LS, tan, buff, few foss, poorly developed scattered p.p porosity, v. chalky, tr. brn stain , lt. spty sfo, ??? odor

LS, cream, tan, foss, scattered p.p. porosity, lt. brn stain, sfo, poor- ft. odor

Sh, maroon, greenish, gry, soft

LANSING 3203.0 -1150.0

LS, tan, gry, fxl, chalky, scattered p.p. type porosity, tr. golden brn stain , nsfo, no odor

LS, white, cream, chalky, poor porosity, tr. brn stain , tr. fo, no odor

Slug rusty brn gry sh

LS, white, gry, fxl, few foss, chalky, tr. brn stain , sfo on fracture planes no odor

LS, white, cream, ool/ foss, scattered vuggy porosity, brn stain, sat. swfo, ft. odor

Sh, black carb

LS, white, gry, fxl, chalky, poorly developed, no shows

LS, a/a

LS, gry, white, fxl, slightly ool, scattered poor - fair vuggy porosity, lt. brn ,golden brn stain , slight sfo, ??? odor in broken samples

Sh, gry, maroon, green

LS, white, cream, fxl, couple sub oom/ ool, chalky, one (1) piece tr. fo, no odor

DST #1 3148-3190
10-60-30-90

1st Open:
weak 1/4" surface blow

2nd Open:
Weak surface blow
Recovery:
2' mud .

Pressures:
ISIP 24 psi
FSIP 40 psi
IFP 12-14 psi
FFP 14-15 psi
HSH 1513-1469 psi

DST#2 3205-3270
10-60-30-60

1st Open:
Blow , very weak

Recovery:
25' Mud w/ oil spots

Pressures:
ISIP 513 psi
FSIP 476 psi
IFP 18-22 psi
FFP 23-30 psi
HSH 1550-1511 psi

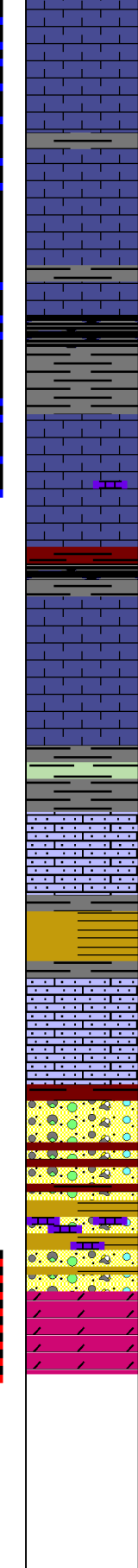
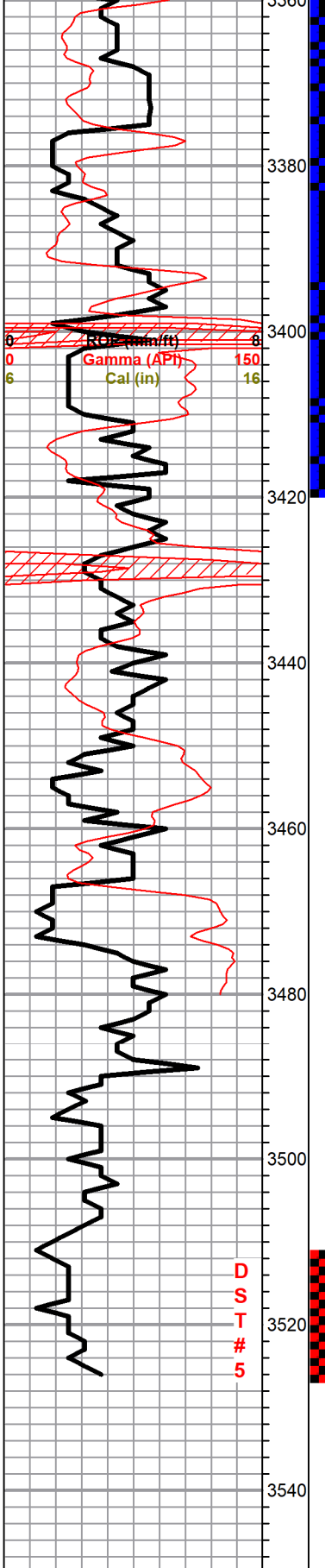
DST#3 3261-3318
10-60-30-60

1st Open:
Weak .75"

2nd Open:
Weak

Recovery:
72' Very slightly oil cut mud
(1%O, 99%M)

Pressures:
ISIP 483 psi
FSIP 474 psi
IFP 17-27 psi
FFP 29-45 psi
HSH 1589-1564 psi



LS, tan, gry, fxl, dense, +white, amber, gry, opaque chert

LS, white, finely ool, sub oom, scattered fine p.p. vuggy type porosity, brown/ golden brown stain, sfo, ??? odor

Sh, black carb

LS, white, cream, chalky, poor porosity, ??? discoloration

Sh, maroon, gry, rusty brown, tr. sh black carb

Sh, gry, limey + gry green soft sh.

LS, white, gry, fxl, chalky, poor porosity, no shows

LS, a/a

BKC 3448.0 -1393.0

Soft sh+ gry, green

Marmaton 3458.0 -2053.0

LS, white, gry, tan, fxl, chalky, cherty, dense, + gry boney chert

V.C. Sh, tr. highly pyritic sand

LS, white, tan, ool, foss, chalky, tr. brn stain, nsfo, no odor

Conglomerate 3491.0 -1438.0

Sh, gry, purpleish gry/ maroon

LS, yellow / maroon tinted ool, no shows, no odor

Green / maroon, silty sh, tr. sd. green vfg, shaley, no shows

Arbuckle 3514.0 -1461.0

Dol., tan, fxl, suc. scattered p.p. type porosity, poor sppty brn stain, sfo, odor in broken samples

Dol, tan, gry, fxl, suc. scattered p.p. / fine inxln porosity, no shows

RTD 3526.0 -1473.0

LTD 3526.0 -1473.0

DST # 4 3324-3420
40-60-30-60

1st Open:
weak surface blow

Recovery:
10' mud with oil specks

Pressures:
ISIP 281 psi
FSIP 169 psi
IFP 20-23 psi
FFP 24-25 psi
HSH 1634-1595 psi

DST#5 3514-3526
10-60-30-90

1st Open :
Fair blow (7.25")

2nd Open:
Good blow
BOB 22 mins.

Recovery:
60' GIP

50' Gassy Oil
60' O&GCMW
60' O&GCMW
50' SL O&GCMW

Pressures:
ISIP 1117 psi
FSIP 1097 psi
IFP 23-53 psi
FFP 60-110 psi
HSH 1764-1712 psi

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 1520

Cell 785-324-1041

Date	8-22-19	Sec.	32	Twp.	9	Range	16	County	ROCKS	State	KS	On Location		Finish	5:45 PM
								Location	Cedar 2E 26RD 1/2N 3/4E into						

Lease Willi Willi Well No. 16A-32-9-16 Owner _____

Contractor D. Sperry #2 To Quality Oilwell Cementing, Inc.
 Type Job Surface 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. 258 Charge To Sam Gray Jr & Associates

Csg. 8 5/8 Depth 257 Street _____

Tbg. Size _____ Depth _____ City _____ State _____

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

Cement Left in Csg. 10' Shoe Joint _____ Cement Amount Ordered 165 com 3 1/4 2 1/4

Meas Line _____ Displace 15 1/2 BCL

EQUIPMENT				Common
Pumptrk	<u>16</u>	No.	Cementer <u>Sam</u>	<u>165</u>
			Helper <u>Tom</u>	Poz. Mix
Bulktrk		No.	Driver <u>Tom</u>	Gel. <u>3</u>
Bulktrk	<u>3</u>	No.	Driver <u>Doug</u>	Calcium <u>6</u>

JOB SERVICES & REMARKS

Remarks: _____ Halls _____

Rat Hole _____ Salt _____

Mouse Hole _____ Flowseal _____

Centralizers _____ Kol-Seal _____

Baskets _____ Mud CLR 48 _____

D/V or Port Collar _____ CFL-117 or CD110 CAF 38 _____

8 5/8 on bottom Est. Circulation. Sand _____

Mix 165 SKO Displace. Handling 174

Mileage _____

FLOAT EQUIPMENT

Cement

Guide Shoe _____

Centralizer _____

Baskets _____

AFU Inserts _____

Float Shoe _____

Latch Down _____

Pumptrk Charge Surface

Mileage 36

X Signature <u>Paul Willi</u>	Tax
	Discount
	Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 1581

Phone 785-483-1071
 Fax 785-324-1041

Date	8-30-19	Sec.	32	Twp.	9	Range	16	County	Osage <u>Rooks</u>	State	KS	On Location		Finish	7:30 PM			
Lease	Willy N. Hwy		Well No.		#16 N-32-916		Location		Codel E to 26 RD 1 1/2 N E 1st.									
Contractor	Discovery Dring #2		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.													
Type Job	PTA		Charge To		Samuel Gary Jr. & Associates													
Hole Size	7 7/8		T.D.															
Csg.	4 1/2 DP		Depth		3512'													
Tbg. Size			Depth															
Tool			Depth															
Cement Left in Csg.			Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.													
Meas Line			Displace		Cement Amount Ordered 305 sk 60/40 4 1/2 gal													
EQUIPMENT													1/4 Flo Seal					
Pumptrk #17	No. Cementer Tony P		Common		183													
Bulktrk #15	No. Driver Tony L		Poz. Mix		122													
Bulktrk #15	No. Driver Lana		Gel.		11													
JOB SERVICES & REMARKS													Calcium					
Remarks:	USED: 305 sk 60/40 4 1/2 gal												Hulls					
Rat Hole	1/4 Flo + 1x 8 5/8 wooden plug												Salt					
Mouse Hole													Flowseal 75#					
Centralizers													Kol-Seal					
Baskets													Mud CLR 48					
D/V or Port Collar													CFL-117 or CD110 CAF 38					
P1 - 3/4 DP @ 3512' @ 50sk													Sand					
P2 - 5/8 DP @ 1275' @ 50sk													Handling 316					
P3 - 5/8 DP @ 800' @ 100sk													Mileage					
P4 - 5/8 DP @ 300' @ 50sk													FLOAT EQUIPMENT					
P5 - 40' @ 10sk													Guide Shoe					
1x 8 5/8 wooden plug.													Centralizer					
													Baskets					
													AFU Inserts					
													Float Shoe					
													Latch Down					
													1x 8 5/8 wooden plug.					
P6 - 30sk RAT Hole													Pumptrk Charge plug					
P7 - 15sk Mouse Hole													Mileage 36					
Signature: <u>[Handwritten Signature]</u>													Tax					
													Discount					
													Total Charge					