

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	Darrah, John Jay, Jr.
Well Name	FINNEY 1-9
Doc ID	1423219

All Electric Logs Run

Dual Induction
Micro resistivity
Sonic
Dual Comp Porosity

Form	ACO1 - Well Completion
Operator	Darrah, John Jay, Jr.
Well Name	FINNEY 1-9
Doc ID	1423219

Tops

Name	Top	Datum
Oread	1050	241
Heebner	1074	217
Douglas	1108	183
Lansing	1379	-88
BKC	1738	-447
Mississippian	2417	-1126
Kinderhook	2736	-1445
Hunton	2884	-1593
Viola	2955	-1664
Simpson	3024	-1733
Simpson sand	3050	-1759
Pre-Cambrian	3084	-1793



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John Jay Darrah, Jr.
 P.O. Box 2786
 Wichita, KS
 67201-2786
 ATTN: Will Darrah/Seth Eve

9/17S/10E Lyon, KS
Finney #1-9
 Job Ticket: 63812 **DST#: 1**
 Test Start: 2018.08.13 @ 00:44:00

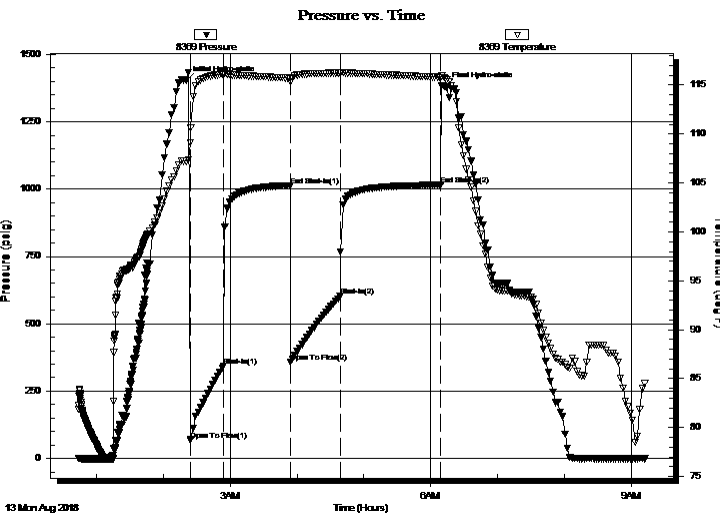
GENERAL INFORMATION:

Formation: **Hunton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:24:30
 Time Test Ended: 09:13:00
 Interval: **2883.00 ft (KB) To 2895.00 ft (KB) (TVD)**
 Total Depth: 2895.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1291.00 ft (KB)
 1282.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8369

Press@RunDepth: 601.97 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.08.13 End Date: 2018.08.13 Last Calib.: 1899.12.30
 Start Time: 00:44:01 End Time: 09:13:00 Time On Btm: 2018.08.13 @ 02:20:40
 Time Off Btm: 2018.08.13 @ 06:13:30

TEST COMMENT: IF - Weak blow building to strong blow 3 minutes into initial flow period.
 FF - Weak blow building to strong blow 4 minutes into final flow period.



PRESSURE SUMMARY

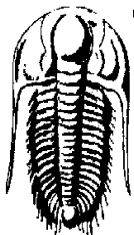
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1402.44	107.22	Initial Hydro-static
4	66.72	109.13	Open To Flow (1)
34	343.21	116.08	Shut-In(1)
93	1012.20	115.69	End Shut-In(1)
94	358.44	115.30	Open To Flow (2)
139	601.97	116.22	Shut-In(2)
229	1014.85	115.79	End Shut-In(2)
233	1379.26	115.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1220.00	Salt Water 100% W	14.33
100.00	O & HM cut W 1% O 48% M & 51% W	1.40
40.00	Clean Oil 100% O	0.56

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John Jay Darrah, Jr.
P.O. Box 2786
Wichita, KS
67201-2786
ATTN: Will Darrah/Seth Eve

9/17S/10E Lyon, KS
Finney #1-9
Job Ticket: 63812 **DST#: 1**
Test Start: 2018.08.13 @ 00:44:00

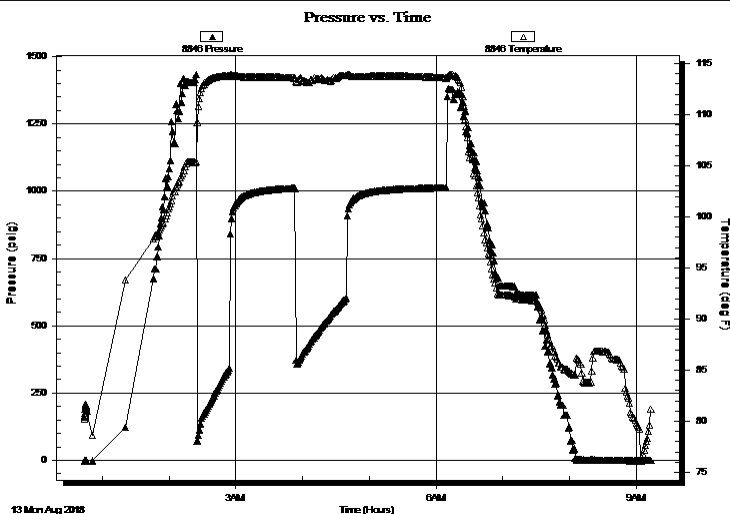
GENERAL INFORMATION:

Formation: **Hunton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:24:30
Time Test Ended: 09:13:00
Interval: **2883.00 ft (KB) To 2895.00 ft (KB) (TVD)**
Total Depth: 2895.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80
Reference Elevations: 1291.00 ft (KB)
1282.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8846

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2018.08.13 End Date: 2018.08.13 Last Calib.: 1899.12.30
Start Time: 00:44:01 End Time: 09:13:10 Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 3 minutes into initial flow period.
FF - Weak blow building to strong blow 4 minutes into final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1220.00	Salt Water 100% W	14.33
100.00	O & HM cut W 1% O 48% M & 51% W	1.40
40.00	Clean Oil 100% O	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John Jay Darrah, Jr.

9/17S/10E Lyon, KS

P.O. Box 2786
Wichita, KS
67201-2786

Finney #1-9

Job Ticket: 63812

DST#: 1

ATTN: Will Darrah/Seth Eve

Test Start: 2018.08.13 @ 00:44:00

Mud and Cushion Information

Mud Type:		Cushion Type:		Oil API:	deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	11000 ppm
Viscosity:	sec/qt	Cushion Volume:	bbbl		
Water Loss:	in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1220.00	Salt Water 100% W	14.335
100.00	O & HM cut W 1% O 48% M & 51% W	1.403
40.00	Clean Oil 100% O	0.561

Total Length: 1360.00 ft Total Volume: 16.299 bbl

Num Fluid Samples: 0

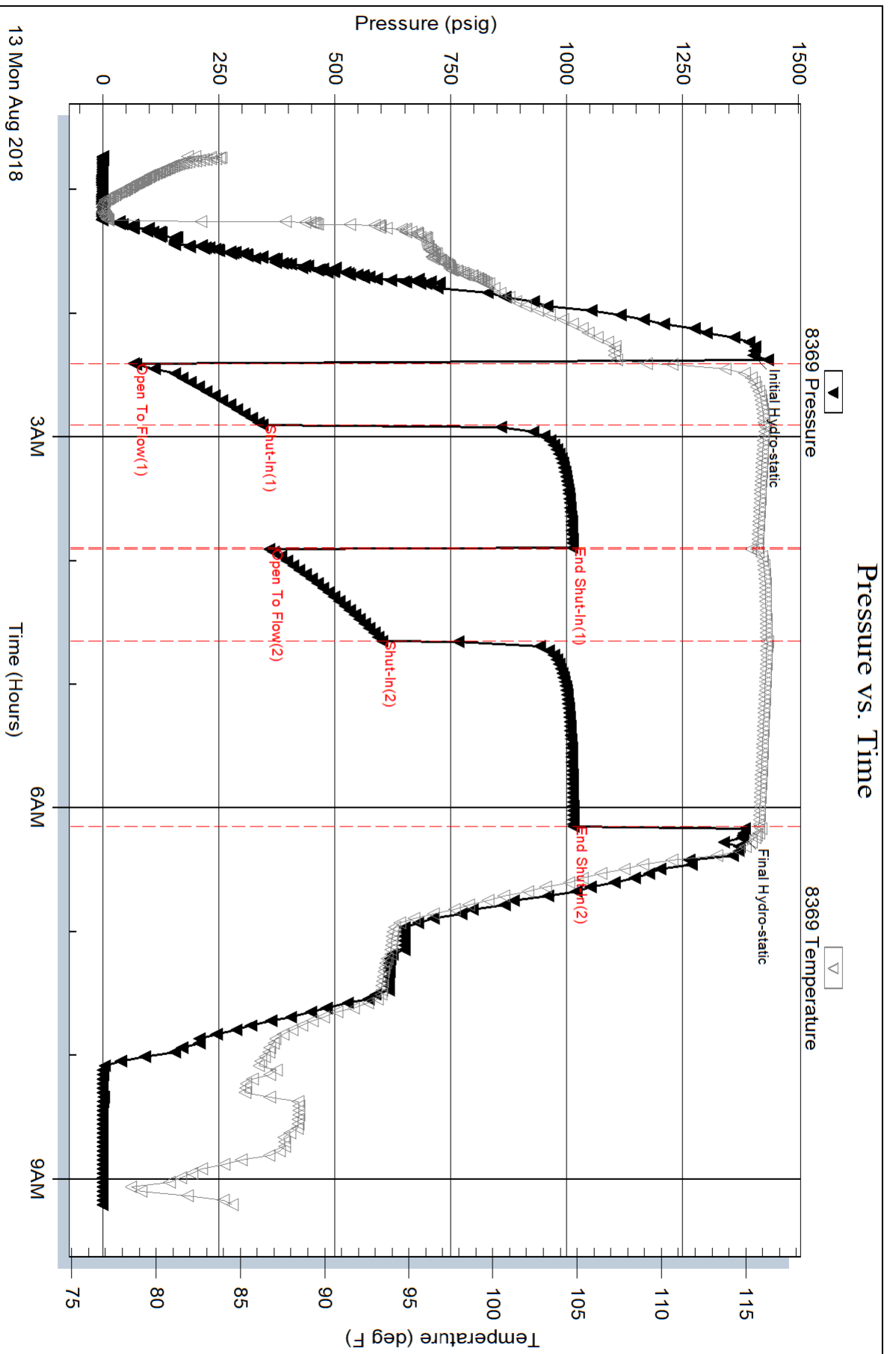
Num Gas Bombs: 0

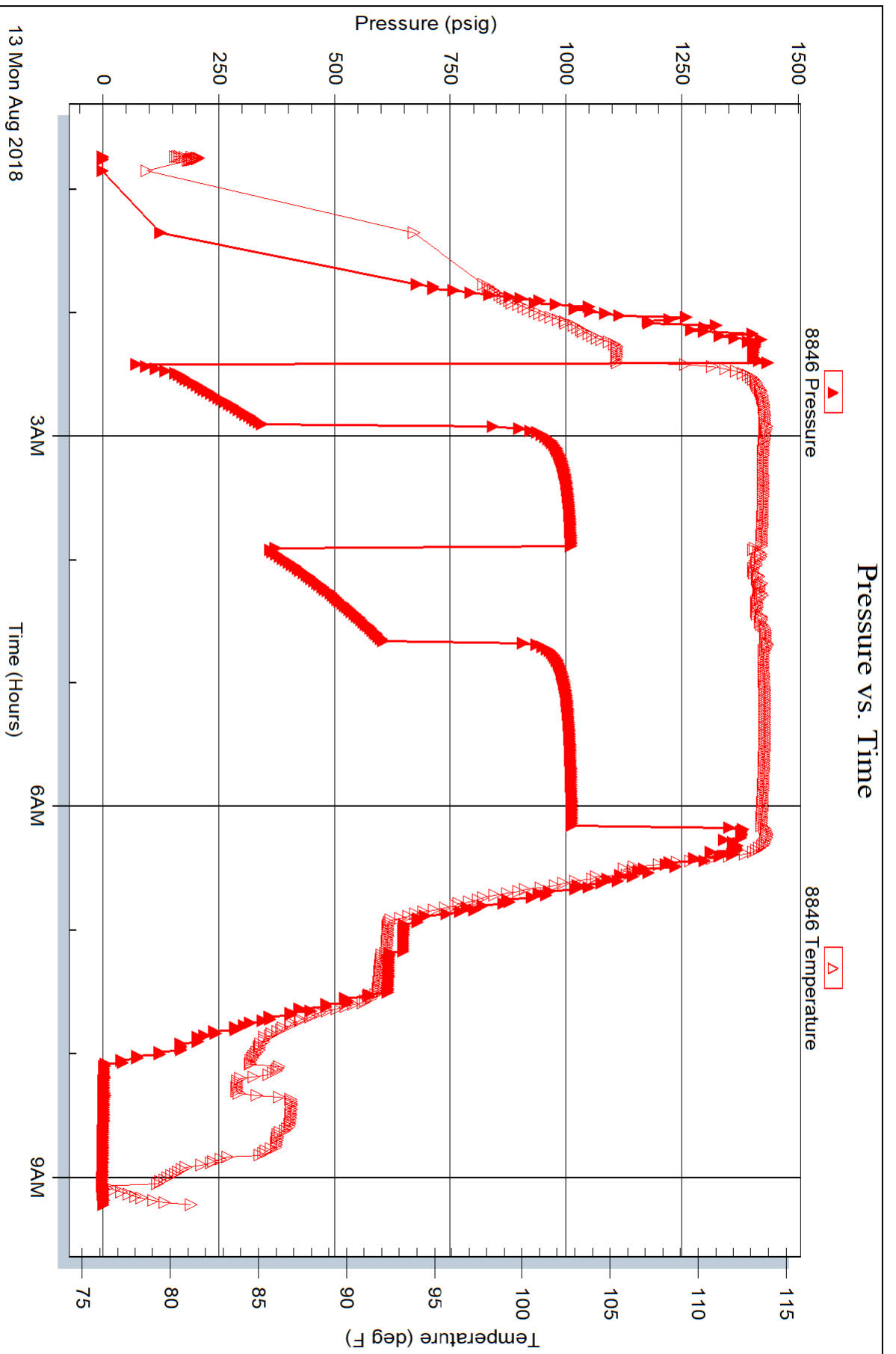
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John Jay Darrah, Jr.
 P.O. Box 2786
 Wichita, KS
 67201-2786
 ATTN: Will Darrah/Seth Eve

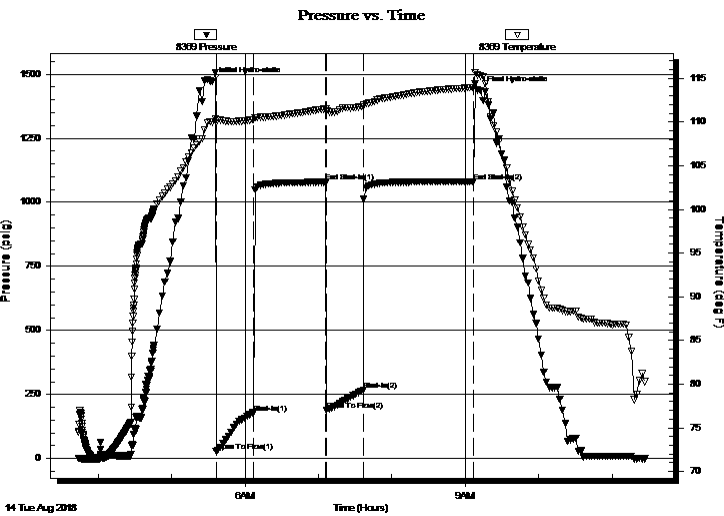
9/17S/10E Lyon, KS
Finney #1-9
 Job Ticket: 63813 **DST#: 2**
 Test Start: 2018.08.14 @ 03:44:00

GENERAL INFORMATION:

Formation: **Upper Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:36:20
 Time Test Ended: 11:27:39
 Interval: **3019.00 ft (KB) To 3035.00 ft (KB) (TVD)**
 Total Depth: 3035.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1291.00 ft (KB)
 1282.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 268.03 psig @ 3020.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.08.14 End Date: 2018.08.14 Last Calib.: 2018.08.14
 Start Time: 03:44:01 End Time: 11:27:40 Time On Btm: 2018.08.14 @ 05:33:40
 Time Off Btm: 2018.08.14 @ 09:12:20

TEST COMMENT: IF - Weak blow building to strong blow 12 minutes into initial flow period.
 FF - Weak blow building to strong blow 15 minutes into final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1470.66	109.99	Initial Hydro-static
3	27.90	109.96	Open To Flow (1)
33	178.71	110.27	Shut-In(1)
93	1078.39	111.51	End Shut-In(1)
94	188.51	111.31	Open To Flow (2)
123	268.03	111.78	Shut-In(2)
213	1079.39	113.98	End Shut-In(2)
219	1434.87	115.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
585.00	Trace O & M cut W TRO 10% M 90% W 5.43	

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John Jay Darrah, Jr.
 P.O. Box 2786
 Wichita, KS
 67201-2786
 ATTN: Will Darrah/Seth Eve

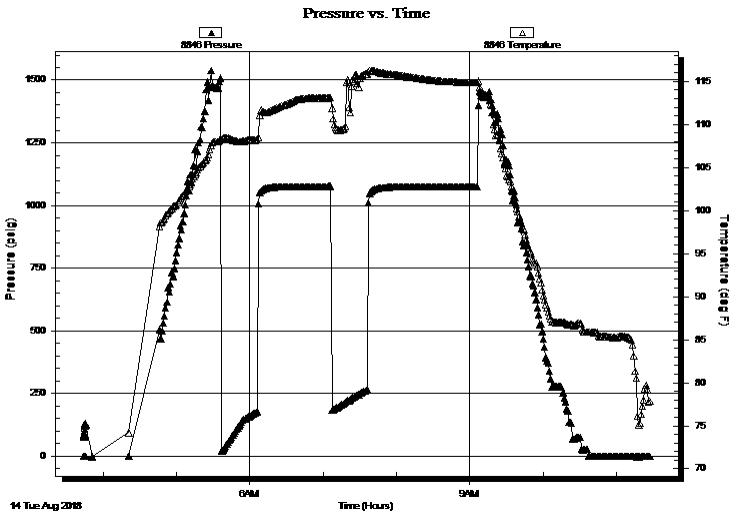
9/17S/10E Lyon, KS
Finney #1-9
 Job Ticket: 63813 **DST#: 2**
 Test Start: 2018.08.14 @ 03:44:00

GENERAL INFORMATION:

Formation: **Upper Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:36:20
 Time Test Ended: 11:27:39
 Interval: **3019.00 ft (KB) To 3035.00 ft (KB) (TVD)**
 Total Depth: 3035.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1291.00 ft (KB)
 1282.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8846 **Inside**
 Press@RunDepth: psig @ 3020.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.08.14 End Date: 2018.08.14 Last Calib.: 1899.12.30
 Start Time: 03:44:01 End Time: 11:27:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 12 minutes into initial flow period.
 FF - Weak blow building to strong blow 15 minutes into final flow period.



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

Recovery		
Length (ft)	Description	Volume (bbl)
585.00	Trace O & M cut W TR O 10% M 90% W 5.43	

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John Jay Darrah, Jr.

9/17S/10E Lyon, KS

P.O. Box 2786
Wichita, KS
67201-2786

Finney #1-9

Job Ticket: 63813

DST#: 2

ATTN: Will Darrah/Seth Eve

Test Start: 2018.08.14 @ 03:44:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

9000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
585.00	Trace O & M cut W TR O 10% M 90% W	5.428

Total Length: 585.00 ft Total Volume: 5.428 bbl

Num Fluid Samples: 0

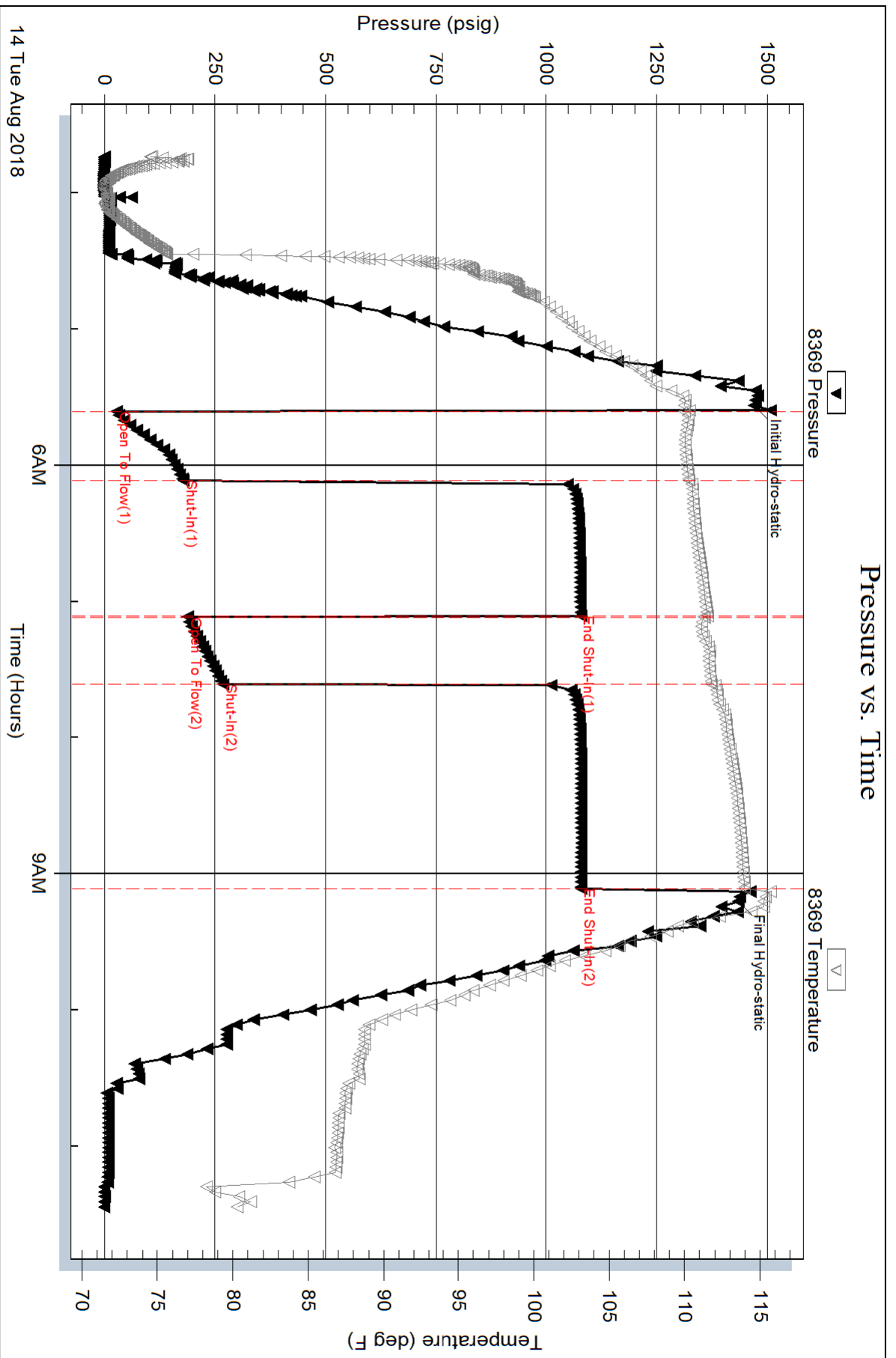
Num Gas Bombs: 0

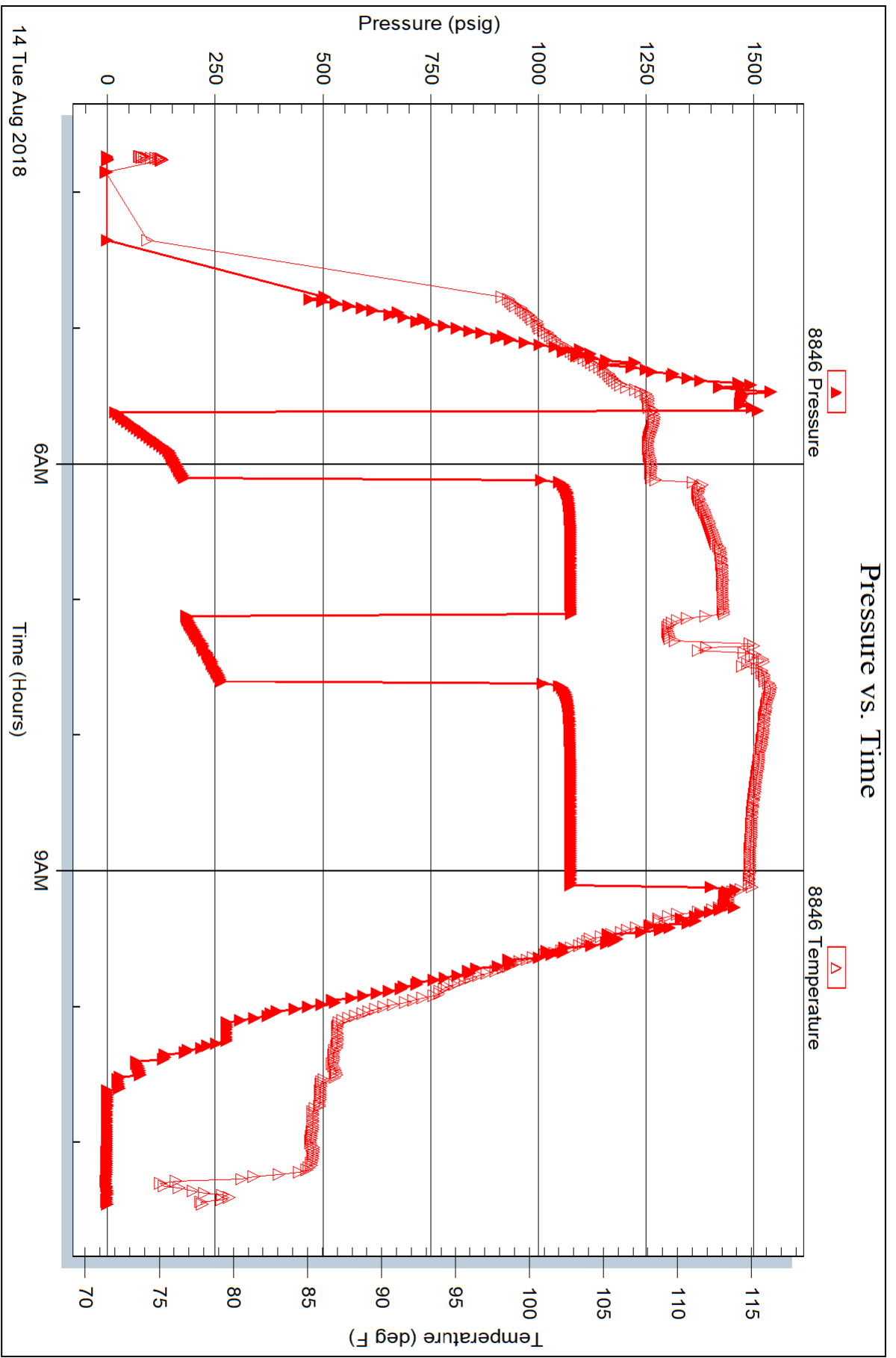
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John Jay Darrah, Jr.

9/17S/10E Lyon, KS

P.O. Box 2786
Wichita, KS
67201-2786

Finney #1-9

Job Ticket: 63814

DST#: 3

ATTN: Will Darrah/Seth Eve

Test Start: 2018.08.16 @ 01:01:00

GENERAL INFORMATION:

Formation: **Lower Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:55:20

Time Test Ended: 06:17:30

Test Type: Conventional Straddle (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **3040.00 ft (KB) To 3049.00 ft (KB) (TVD)**

Reference Elevations: 1291.00 ft (KB)

Total Depth: 3140.00 ft (KB) (TVD)

1282.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8369 Outside

Press@RunDepth: 58.94 psig @ 3041.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.16

End Date: 2018.08.16

Last Calib.: 2018.08.16

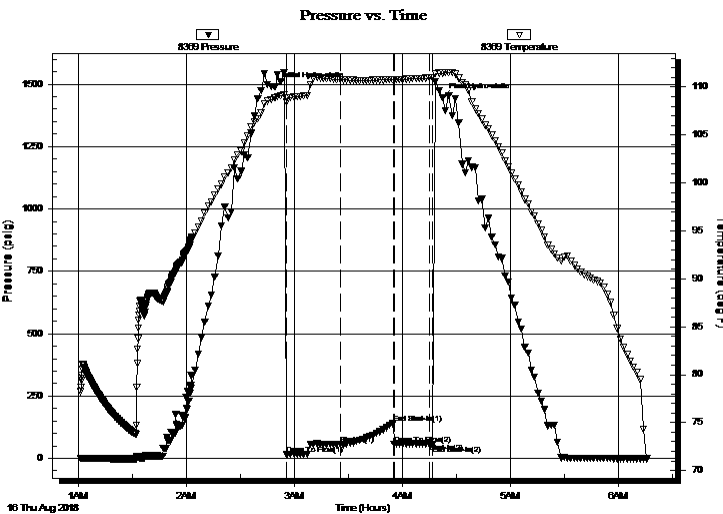
Start Time: 01:01:01

End Time: 06:17:30

Time On Btm: 2018.08.16 @ 02:49:10

Time Off Btm: 2018.08.16 @ 04:22:30

TEST COMMENT: IF - No blow . Flushed tool, mud dropped 20 feet. Bled off pressure but still no blow .
FF - No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1490.58	108.90	Initial Hydro-static
7	15.74	108.43	Open To Flow (1)
37	57.41	110.77	Shut-In(1)
66	140.97	110.78	End Shut-In(1)
67	56.71	110.76	Open To Flow (2)
86	58.94	110.96	Shut-In(2)
88	52.83	110.98	End Shut-In(2)
94	1445.10	111.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drilling mud 100% M	0.34

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John Jay Darrah, Jr.

9/17S/10E Lyon, KS

P.O. Box 2786

Finney #1-9

Wichita, KS

Job Ticket: 63814

DST#: 3

67201-2786

ATTN: Will Darrah/Seth Eve

Test Start: 2018.08.16 @ 01:01:00

GENERAL INFORMATION:

Formation: **Lower Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:55:20

Time Test Ended: 06:17:30

Test Type: Conventional Straddle (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **3040.00 ft (KB) To 3049.00 ft (KB) (TVD)**

Reference Elevations: 1291.00 ft (KB)

Total Depth: 3140.00 ft (KB) (TVD)

1282.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: **8846** Inside

Press@RunDepth: psig @ 3041.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.16

End Date: 2018.08.16

Last Calib.: 1899.12.30

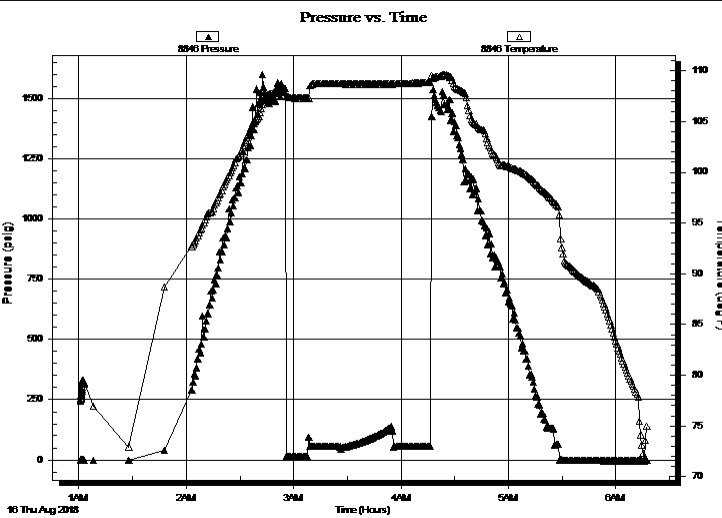
Start Time: 01:01:01

End Time: 06:17:40

Time On Btm:

Time Off Btm:

TEST COMMENT: IF - No blow . Flushed tool, mud dropped 20 feet. Bled off pressure but still no blow .
FF - No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drilling mud 100% M	0.34

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John Jay Darrah, Jr.

9/17S/10E Lyon, KS

P.O. Box 2786
 Wichita, KS
 67201-2786
 ATTN: Will Darrah/Seth Eve

Finney #1-9

Job Ticket: 63814

DST#: 3

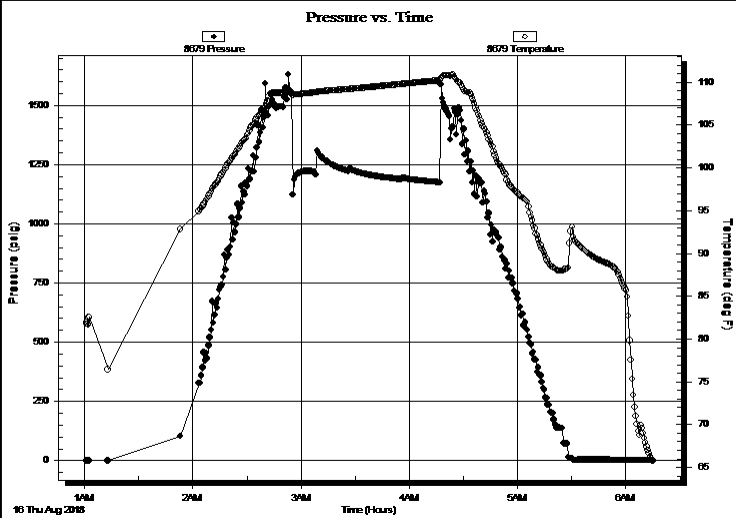
Test Start: 2018.08.16 @ 01:01:00

GENERAL INFORMATION:

Formation: **Lower Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:55:20
 Time Test Ended: 06:17:30
 Interval: **3040.00 ft (KB) To 3049.00 ft (KB) (TVD)**
 Total Depth: 3140.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Straddle (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1291.00 ft (KB)
 1282.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8679 Below (Straddle)
 Press@RunDepth: psig @ 3050.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.08.16 End Date: 2018.08.16 Last Calib.: 1899.12.30
 Start Time: 01:01:05 End Time: 06:14:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF - No blow . Flushed tool, mud dropped 20 feet. Bled off pressure but still no blow .
 FF - No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drilling mud 100% M	0.34

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John Jay Darrah, Jr.

9/17S/10E Lyon, KS

P.O. Box 2786
Wichita, KS
67201-2786

Finney #1-9

Job Ticket: 63814

DST#: 3

ATTN: Will Darrah/Seth Eve

Test Start: 2018.08.16 @ 01:01:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Drilling mud 100% M	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

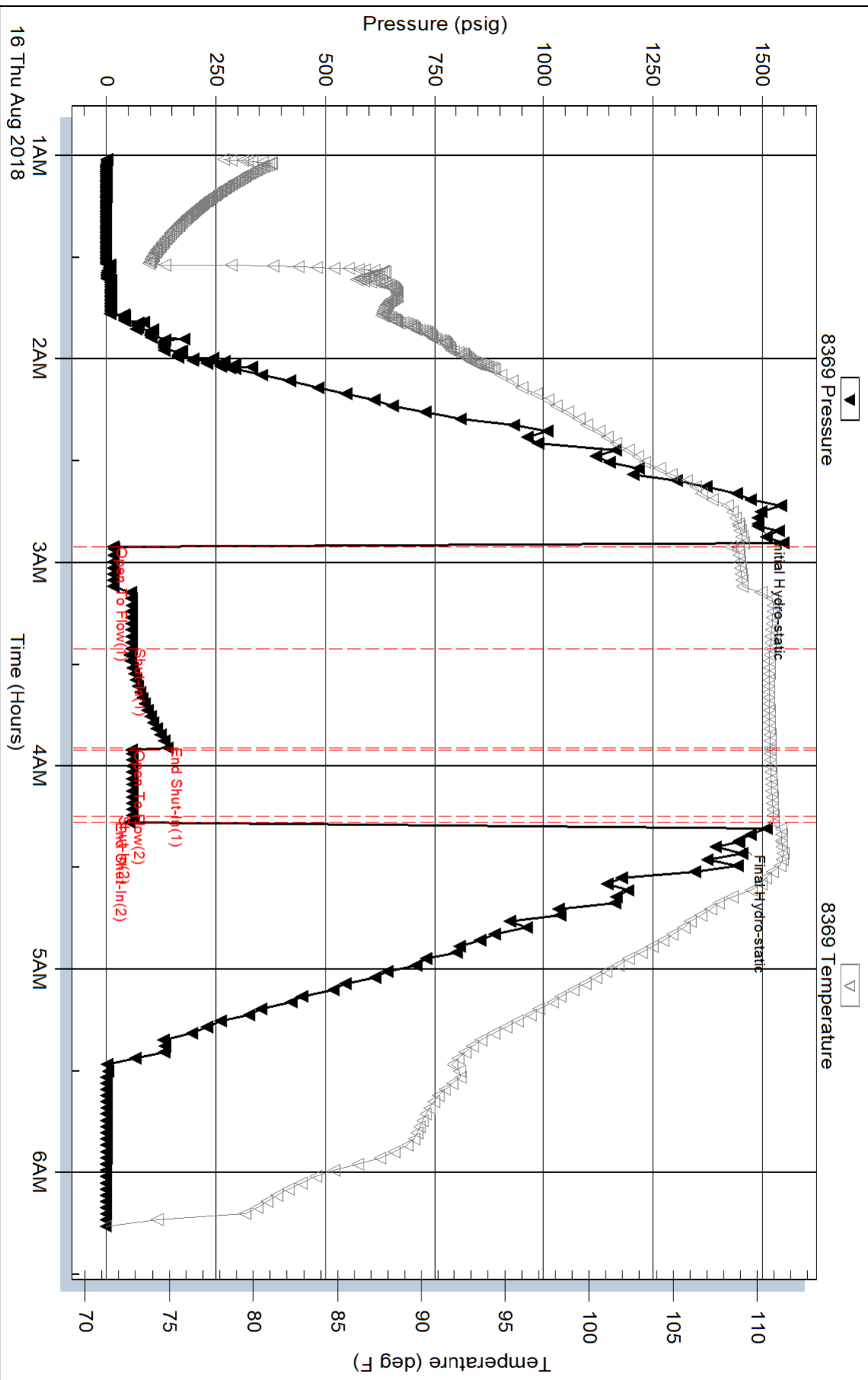
Serial #:

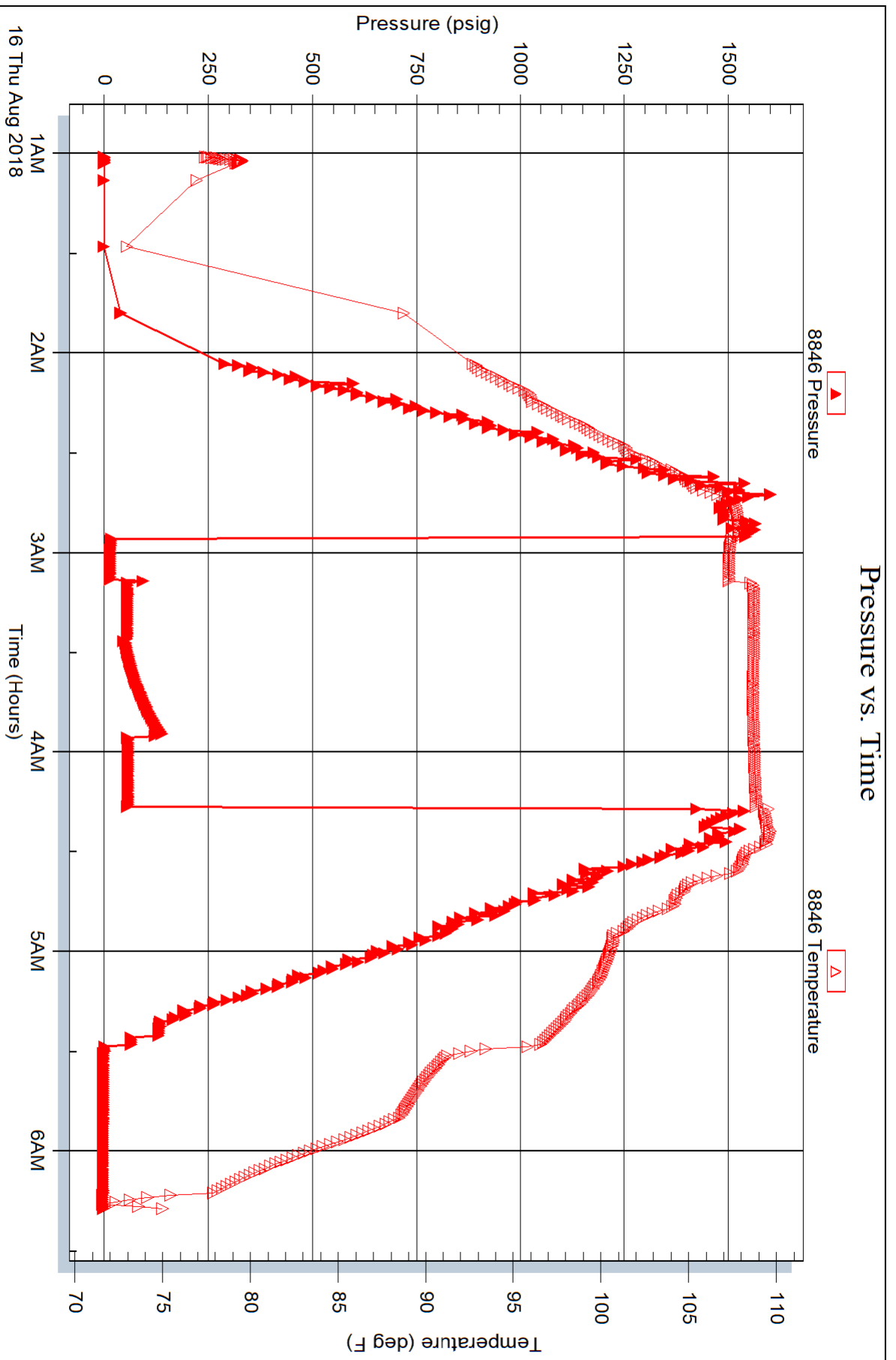
Laboratory Name:

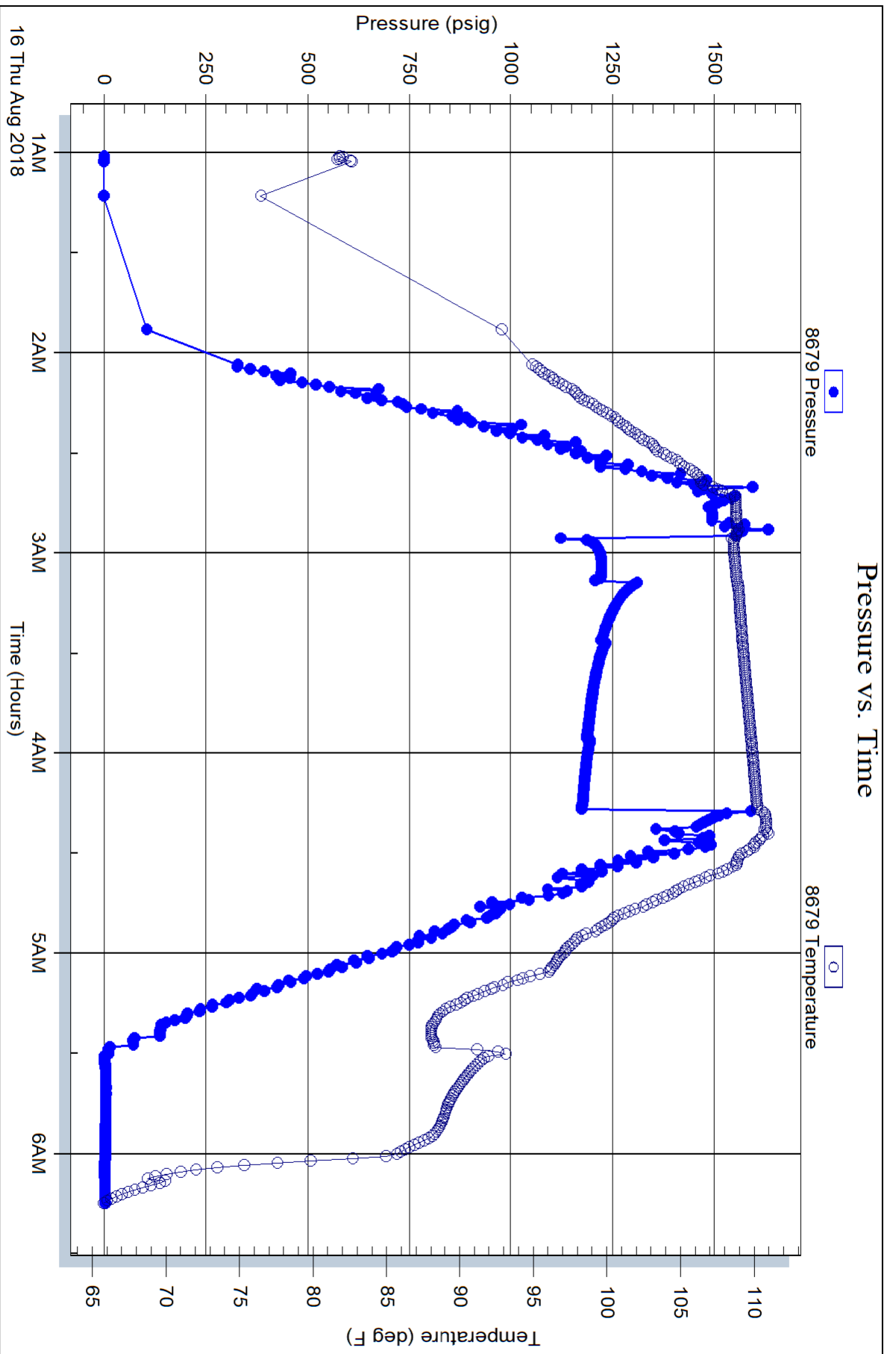
Laboratory Location:

Recovery Comments:

Pressure vs. Time









TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John Jay Darrah, Jr.

9/17S/10E Lyon, KS

P.O. Box 2786
Wichita, KS
67201-2786

Finney #1-9

Job Ticket: 63815

DST#: 4

ATTN: Will Darrah/Seth Eve

Test Start: 2018.08.16 @ 06:41:00

GENERAL INFORMATION:

Formation: **Lower Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:51:20

Time Test Ended: 16:34:49

Test Type: Conventional Straddle (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 3041.00 ft (KB) To 3052.00 ft (KB) (TVD)

Reference Elevations: 1291.00 ft (KB)

Total Depth: 3140.00 ft (KB) (TVD)

1282.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8369

Press@RunDepth: 18.80 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.16

End Date: 2018.08.16

Last Calib.: 1899.12.30

Start Time: 06:41:01

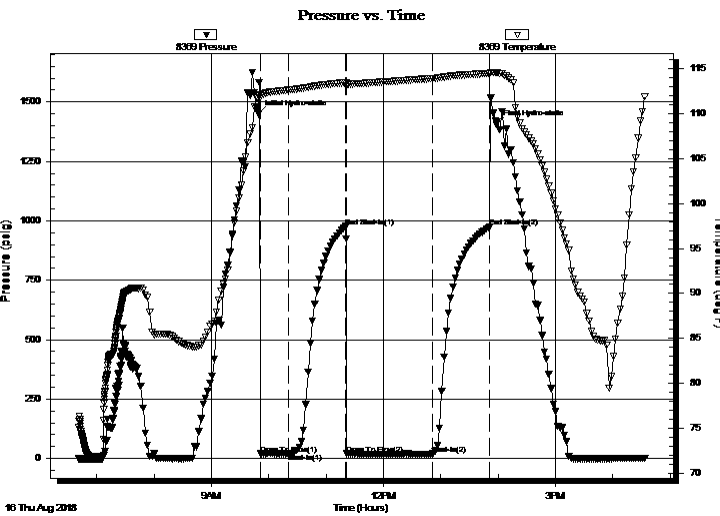
End Time: 16:34:49

Time On Btm: 2018.08.16 @ 09:49:10

Time Off Btm: 2018.08.16 @ 13:58:30

TEST COMMENT: IF - Weak blow building to 1/2 inch blow initial flow period.

FF - No blow final flow period.



PRESSURE SUMMARY

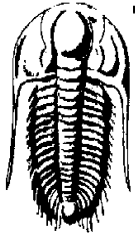
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1448.83	112.00	Initial Hydro-static
3	19.48	111.76	Open To Flow (1)
32	20.26	112.62	Shut-In(1)
92	976.21	113.44	End Shut-In(1)
92	19.65	112.97	Open To Flow (2)
182	18.80	113.89	Shut-In(2)
242	972.73	114.44	End Shut-In(2)
250	1403.99	114.54	Final Hydro-static

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John Jay Darrah, Jr.

9/17S/10E Lyon, KS

P.O. Box 2786
Wichita, KS
67201-2786

Finney #1-9

Job Ticket: 63815

DST#: 4

ATTN: Will Darrah/Seth Eve

Test Start: 2018.08.16 @ 06:41:00

GENERAL INFORMATION:

Formation: **Lower Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:51:20

Time Test Ended: 16:34:49

Test Type: Conventional Straddle (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **3041.00 ft (KB) To 3052.00 ft (KB) (TVD)**

Total Depth: 3140.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1291.00 ft (KB)

1282.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8846

Press@RunDepth: psig @ ft (KB)

Start Date: 2018.08.16

End Date: 2018.08.16

Start Time: 06:41:01

End Time: 16:34:10

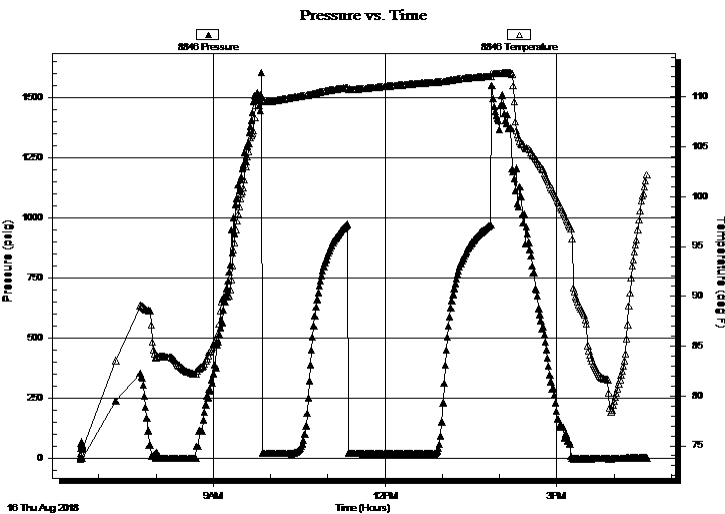
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF - Weak blow building to 1/2 inch blow initial flow period.
FF - No blow final flow period.



PRESSURE SUMMARY

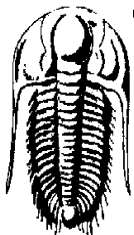
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John Jay Darrah, Jr.

9/17S/10E Lyon, KS

P.O. Box 2786
Wichita, KS
67201-2786
ATTN: Will Darrah/Seth Eve

Finney #1-9

Job Ticket: 63815

DST#: 4

Test Start: 2018.08.16 @ 06:41:00

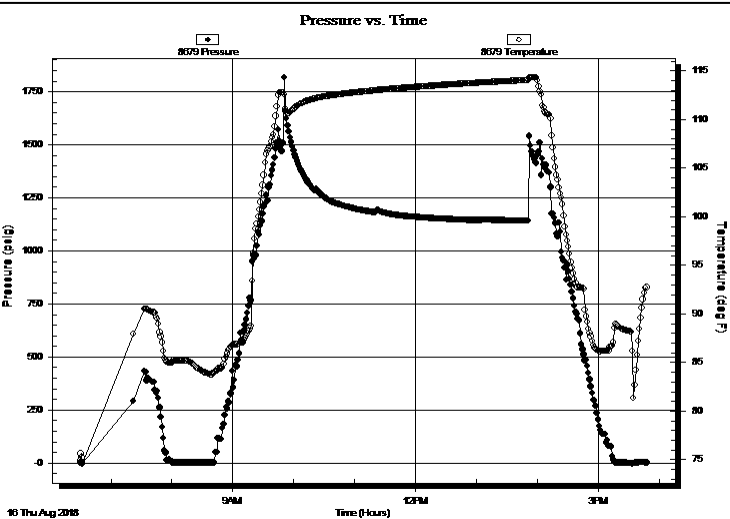
GENERAL INFORMATION:

Formation: **Lower Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:51:20
Time Test Ended: 16:34:49
Interval: **3041.00 ft (KB) To 3052.00 ft (KB) (TVD)**
Total Depth: 3140.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Initial)
Tester: Jimmy Ricketts
Unit No: 80
Reference Elevations: 1291.00 ft (KB)
1282.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8679 Below (Straddle)
Press@RunDepth: psig @ 3053.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.08.16 End Date: 2018.08.16 Last Calib.: 1899.12.30
Start Time: 06:30:05 End Time: 15:47:50 Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to 1/2 inch blow initial flow period.
FF - No blow final flow period.



PRESSURE SUMMARY

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

Recovery

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

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John Jay Darrah, Jr.

9/17S/10E Lyon, KS

P.O. Box 2786
Wichita, KS
67201-2786

Finney #1-9

Job Ticket: 63815

DST#: 4

ATTN: Will Darrah/Seth Eve

Test Start: 2018.08.16 @ 06:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Drilling mud 100% M	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

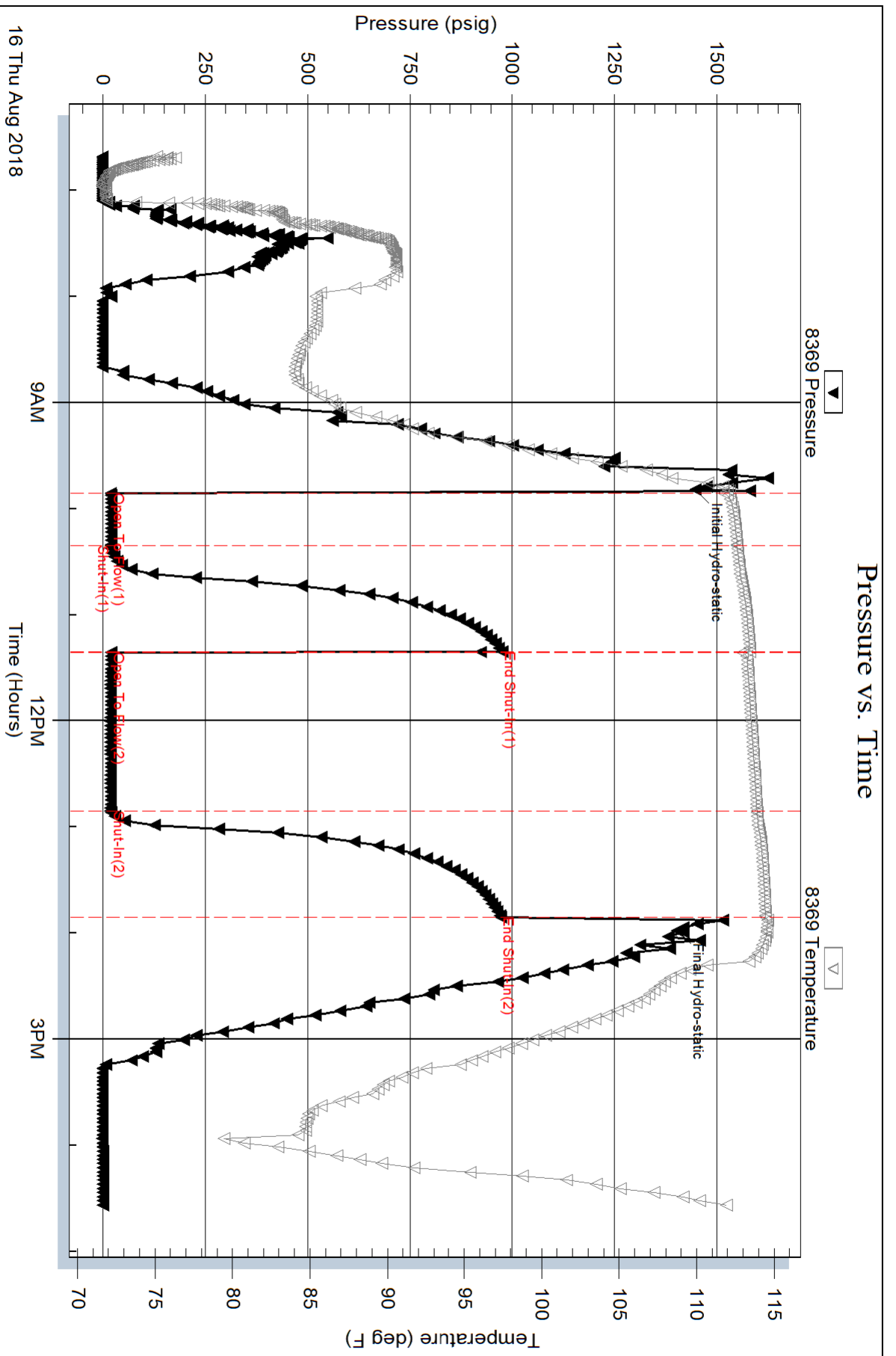
Num Gas Bombs: 0

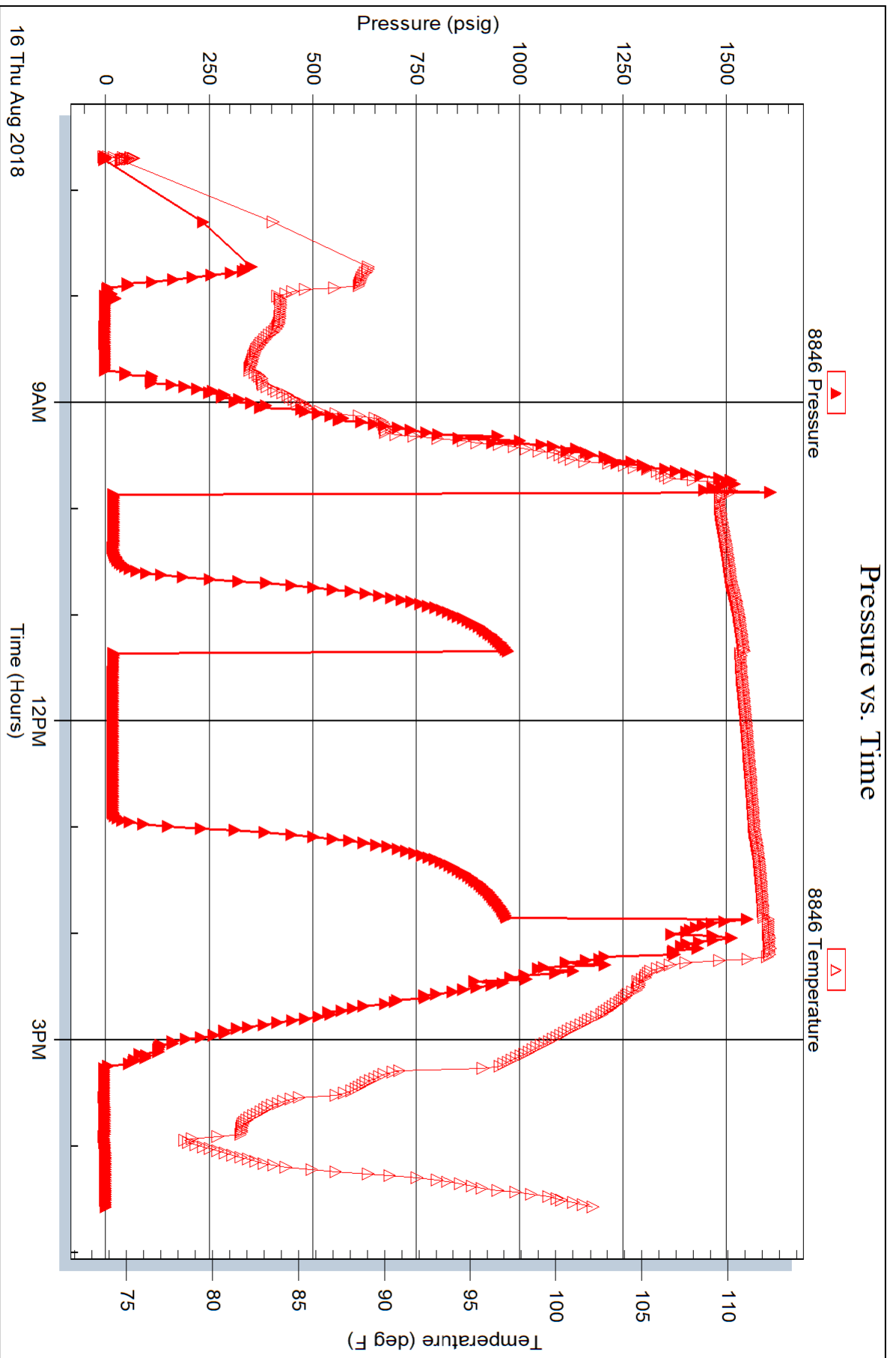
Serial #:

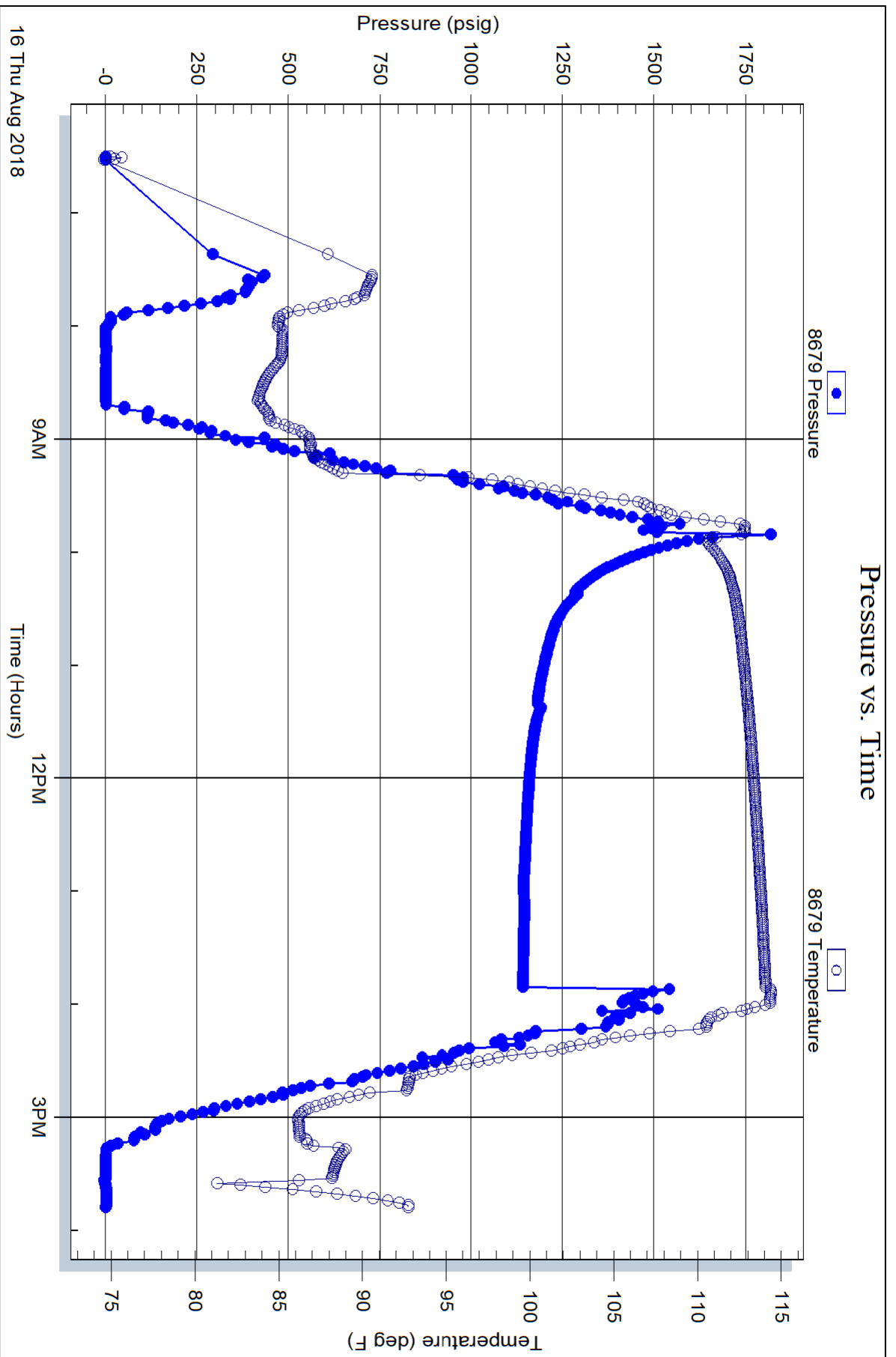
Laboratory Name:

Laboratory Location:

Recovery Comments:







COPELAND

Acid & Cement

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

V45734

BURRTON, KS GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

INVOICE NUMBER:
C45458-IN

BILL TO:
 JOHN JAY DARRAH, JR.
 PO BOX 2786
 WICHITA, KS 67202-2786

LEASE: **FINNEY 1-9**

82300/100
 ROTARY CONTRACTOR

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
08/15/2018	C45458		08/11/2018		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		NEW WELL				
70.00	MI	MILEAGE PICKUP		22.00	2.00	109.20
70.00	MI	MILEAGE CEMENT PUMP TRUCK		22.00	4.00	218.40
1.00	EA	PUMP CHARGE-SURFACE		22.00	1,100.00	858.00
150.00	SK	60/40 POZ MIX 2% GEL		22.00	11.00	1,287.00
8.00	SK	CALCIUM CHLORIDE		22.00	30.00	187.20
158.00	EA	BULK CHARGE		22.00	1.25	154.05
486.64	MI	BULK TRUCK - TON MILES		22.00	1.10	417.54
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		3,231.39
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		LYOCO Sales Tax:		110.57
RECEIVED BY		NET 30 DAYS		Invoice Total:		3,341.96

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days past due.



New Well

FIELD ORDER Nº C 45458

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 8-11- 20 18

IS AUTHORIZED BY: John Jay Darrah Jr. O.I.
(NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease Finney Well No. 1-9 Customer Order No. _____

Sec. Twp. Range _____ County Wyand State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED _____ By _____ Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	70	Mileage Pick up	2 ⁰⁰	140 ⁰⁰
2	70	Mileage Pump Truck	4 ⁰⁰	280 ⁰⁰
2		Pump Charge - Surface Pipe		1100 ⁰⁰
2	150	6 Sks 60/40 2% bel	11 ⁰⁰	1650 ⁰⁰
2	8	Calcium Chloride	30 ⁰⁰	240 ⁰⁰
2	158	Bulk Charge	1 ²⁵	197 ⁵⁰
2		Bulk Truck Miles $6.9527 \times 70 \text{ miles} = 486.64$	1 ¹⁰	535. ³⁰
		Process License Fee on _____ Gallons		
TOTAL BILLING			22 ¹⁶	4142. ⁸⁰

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Greg C.

Station 6B

Will Darrah
Well Owner, Operator or Agent

-911.42
3231.38

Remarks _____

NET 30 DAYS

COPELAND

Acid & Cement

BURRTON, KS GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

V45731

INVOICE NUMBER:
C45411-IN

BILL TO:
 JOHN JAY DARRAH, JR.
 PO BOX 2786
 WICHITA, KS 67202-2786

LEASE: **FINNEY #1-9**

82300/800
 CEMENT

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
08/22/2018	C45411		08/16/2018		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		NEW WELL				
70.00	MI	MILEAGE PICKUP		20.00	2.00	112.00
70.00	MI	MILEAGE CEMENT PUMP TRUCK		20.00	4.00	224.00
1.00	EA	PUMP CHARGE-P.T.A.		20.00	650.00	520.00
195.00	SK	60/40 POZ MIX 2% GEL		20.00	10.75	1,677.00
4.00	SK	2% ADDITIONAL GEL		20.00	22.00	70.40
199.00	EA	BULK CHARGE		20.00	1.25	199.00
614.60	MI	BULK TRUCK - TON MILES		20.00	1.10	540.85
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		3,343.25
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		LYOCO Sales Tax:		131.06
RECEIVED BY		NET 30 DAYS		Invoice Total:		3,474.31

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days past due.



NEW WELL

FIELD ORDER N° C 45411

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 8-16 2018

IS AUTHORIZED BY: DARRAH Oil (NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease Finney Well No. 1-9 Customer Order No. _____

Sec. Twp. Range _____ County LYON State KS.

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED _____ By _____ Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	70	Mileage Pickup	2.00	140.00
2	70	Mileage Pump TRUCK	4.00	280.00
2	1	Pump Chg. P.T.A.	650.00	650.00
2	195gx	60-40 Poz 2% Gel	10.75	2096.25
2	4sx	ADDITIONAL Gel	22.00	88.00
2	199	Bulk Charge	1.25	248.75
2	70	Bulk Truck Miles $8.98 = 664.40 \times 1.10$		678.06
		Process License Fee on _____ Gallons		
		TOTAL BILLING	20%	4779.06

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Duane Brozek

Station Gr Bend, Ks.

Jud
Well Owner, Operator or Agent

825.817
3343.25

Remarks _____

NET 30 DAYS

TREATMENT REPORT

Acid Stage No.

Date 8-16-18 District Gr Bend F. O. No. 45411
 Company DARRAH OIL
 Well Name & No. FINNEY 1-9
 Location Field
 County LYON State KS.

Type Treatment: Amt. Type Fluid Sand Size Pounds of Sand
 Bkdown.....Bbl./Gal.
Bbl./Gal.
Bbl./Gal.
Bbl./Gal.
 FlushBbl./Gal.
 Treated from.....ft. to.....ft. No. ft.
 from.....ft. to.....ft. No. ft.
 from.....ft. to.....ft. No. ft.
 Actual Volume of Oil/Water to Load Hole:Bbl./Gal.
 Pump Trucks. No. Used: Std. 365 Sp. Twin
 Auxiliary Equipment 327
 Packer:..... Set atft.
 Auxiliary Tools DUANE TIM MIKE
 Plugging or Sealing Materials: Type..... (Gal. lb.

Casing: Size Type & Wt. Set atft.
 Formation: Perf.to.....
 Formation: Perf.to.....
 Formation: Perf.to.....
 Liner: Size Type & Wt. Top atft. Bottom atft.
 Cemented: Yes/No. Perforated from.....ft. to.....ft.
 Tubing: Size & Wt. Swung atft.
 Perforated from.....ft. to.....ft.
 Open Hole Size T.D.ft. P.D. to.....ft.

Company Representative Jud Treater DUANE

TIME a.m / p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
10:00				ON LOC
10:30			27.18'	1 st Plug @ 2759' w/ 40sx 60-40 Poz 490 Gel w/ 2 BBLs WATER & 15 BBLs MUD 40sx
			18.36	2 nd Plug @ 2387' w/ 40-60 Poz 490 Gel w/ 2 BBLs WATER & 10 BBL MUD 25sx
11:30			13.36	3 rd Plug @ 1457' w/ 40-60 Poz 490 Gel w/ 2 BBLs WATER & 5 BBLs MUD 25sx
12:00			7.96	4 th Plug @ 248' w/ 25sx 40-60 Poz 490 Gel w/ 1.6 BBLs WATER
			4.36	5 th Plug @ 60' w/ 15sx 40-60 Poz 490 Gel w/ .5 BBLs WATER
			3.86	TOP OFF w/ 15sx 40-60 Poz 490 Gel
			6.36	Fill Mouse hole w/ 25sx 40-60 Poz 490 Gel
			6.36	Fill RAT hole w/ 25sx 40-60 Poz 490 Gel
1:00				Job Complete.