

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 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	BEREXCO LLC
Well Name	BUD 1-12
Doc ID	1462702

All Electric Logs Run

Resistivity
Porosity
Microlog
Sonic

APR 24 2019

3613A Y Road
Madison, KS 66860
Ph: 620-437-2661
Fax: 620-437-2881



104 Prairie Plaza Parkway
Garnett, KS 66032
Ph: 785-448-3100
Fax: 785-448-3102

FED ID# 48-1214033
MC ID# 165290

Remit to: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202

Customer:
BEREXCO LLC
2020 N BRAMBLEWOOD
WICHITA, KS 67206-1094

Invoice Date: 4/10/2019
Invoice #: 0341385
Lease Name: BUD
Well #: 1-12 (New)
County: Cheyenne
Job #ICT1914

Date/Description	HRS/QTY	Rate	Total
Surface-New well	0	0.00 \$	-
Heavy Eq Mileage	80	3.40	272.00
Cement Pump	1	637.50	637.50
Light Eq Mileage	80	1.70	136.00
Ton Mileage	1287	1.28	1,640.93
H-325	325	17.00	5,525.00

surf eq cmt

RRR

CC WF

Net Invoice	8,211.43
Sales Tax	0.00
Total	8,211.43

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

WE APPRECIATE YOUR BUSINESS!



HURRICANE SERVICES INC

Customer	Berexco	Lease & Well #	Bud 1-12	Date	4/10/2019
Service District	Oakley Ks	County & State	Cheyenne Ks	Legals S/T/R	12-2S-37W
Job Type	Surface	<input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Ticket #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			

231	Michael	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
180/250	Alan	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
74	Travis	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments	
All cement and chemicals came from Oakley service yard.	

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount	
M010	Heavy Equipment Mileage	mi	80.00		\$272.00
CP15	Cement Pump	ea	1.00	\$637.50	\$1,276.00
M015	Light Equipment Mileage	mi	80.00		\$136.00
M020	Ton Mileage	tm	1,287.00		\$1,640.93
CP015	H-325	sack	325.00		\$5,525.00

Customer Section: On the following scale how would you rate Hurricane Services Inc ?	Total Taxable \$ -	Tax Rate:	Net: \$6,046.93
Based on this job, how likely is it you would recommend HSI to a colleague?	State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax: \$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely	Total: \$ 8,211.43		Total: \$ 6,046.93

HSI Representative: *Travis Williams*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

x *Doug Budzy* _____ **CUSTOMER AUTHORIZATION SIGNATURE**

\$8,211.43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita KS 67206
 ATTN: Bryan Bynog

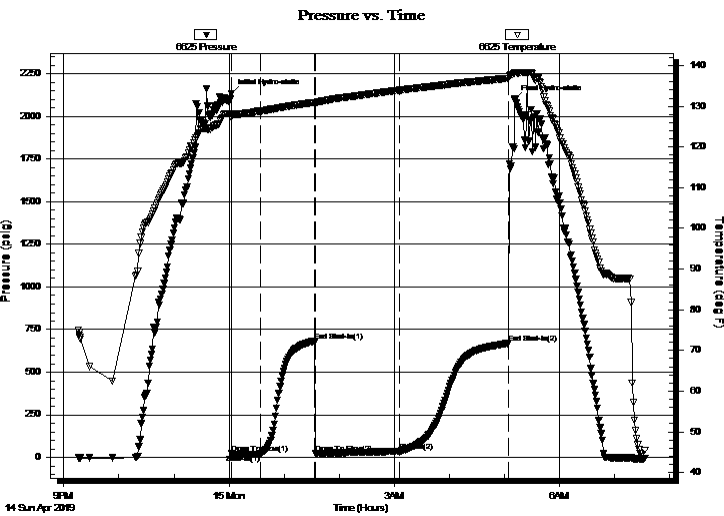
12/25/37W Cheyenne KS
Bud #1-12
 Job Ticket: 65358 **DST#: 1**
 Test Start: 2019.04.14 @ 21:16:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:02:45
 Time Test Ended: 07:33:00
 Interval: **4188.00 ft (KB) To 4258.00 ft (KB) (TVD)**
 Total Depth: 4258.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder/Shaw n W
 Unit No: 83
 Reference Elevations: 3397.00 ft (KB)
 3389.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625 Inside
 Press@RunDepth: 35.07 psig @ 4189.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.14 End Date: 2019.04.15 Last Calib.: 2019.04.15
 Start Time: 21:16:05 End Time: 07:33:00 Time On Btm: 2019.04.15 @ 00:02:30
 Time Off Btm: 2019.04.15 @ 05:11:30

TEST COMMENT: 30-IF-Blow built to 1"
 60-ISI-No blow back
 90-FF-Blow built to 1/2"
 120-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.64	128.19	Initial Hydro-static
1	22.04	127.23	Open To Flow (1)
32	20.47	128.82	Shut-In(1)
91	683.51	130.94	End Shut-In(1)
92	24.22	130.88	Open To Flow (2)
183	35.07	133.94	Shut-In(2)
302	668.78	136.83	End Shut-In(2)
309	2099.17	138.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	HOCM 70%M, 30%O	0.20
5.00	HMCO 67%O, 33%M	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

ATTN: Bryan Bynog

Job Ticket: 65358

DST#: 1

Test Start: 2019.04.14 @ 21:16:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:02:45

Time Test Ended: 07:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder/Shawn W

Unit No: 83

Interval: 4188.00 ft (KB) To 4258.00 ft (KB) (TVD)

Reference Elevations: 3397.00 ft (KB)

Total Depth: 4258.00 ft (KB) (TVD)

3389.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8652 Outside

Press@RunDepth: psig @ 4189.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.14

End Date:

2019.04.15

Last Calib.:

2019.04.15

Start Time: 21:16:05

End Time:

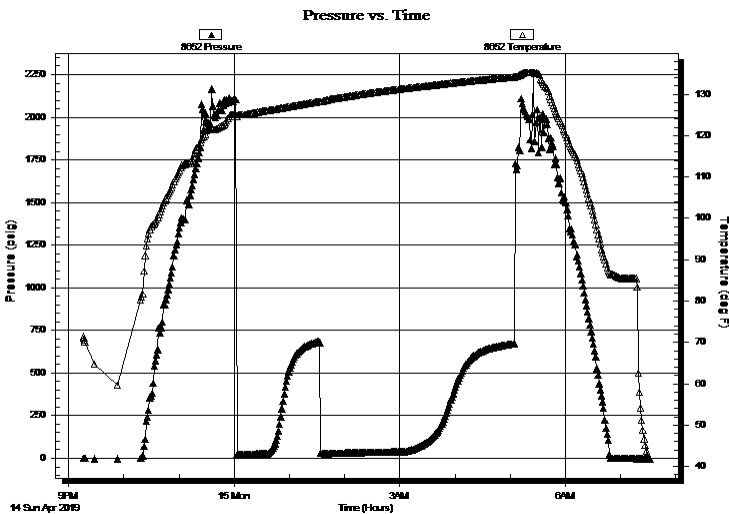
07:32:15

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Blow built to 1"
60-ISI-No blow back
90-FF-Blow built to 1/2"
120-FSI-No blow

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
40.00	HOCM 70%M, 30%O	0.20
5.00	HMCO 67%O, 33%M	0.02

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65358

DST#: 1

ATTN: Bryan Bynog

Test Start: 2019.04.14 @ 21:16:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	HOCM 70%M, 30%O	0.197
5.00	HMCO 67%O, 33%M	0.025

Total Length: 45.00 ft Total Volume: 0.222 bbl

Num Fluid Samples: 0

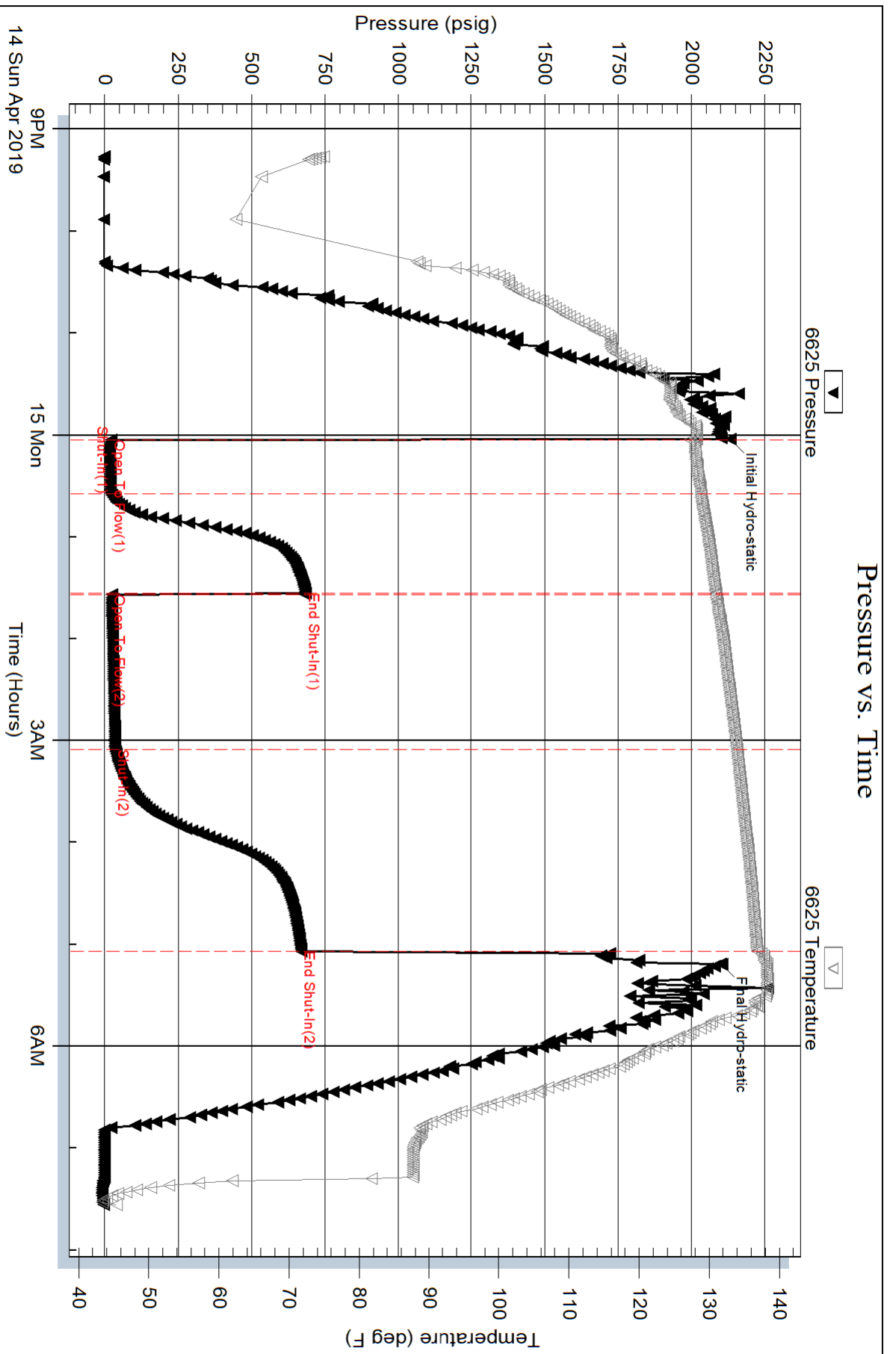
Num Gas Bombs: 0

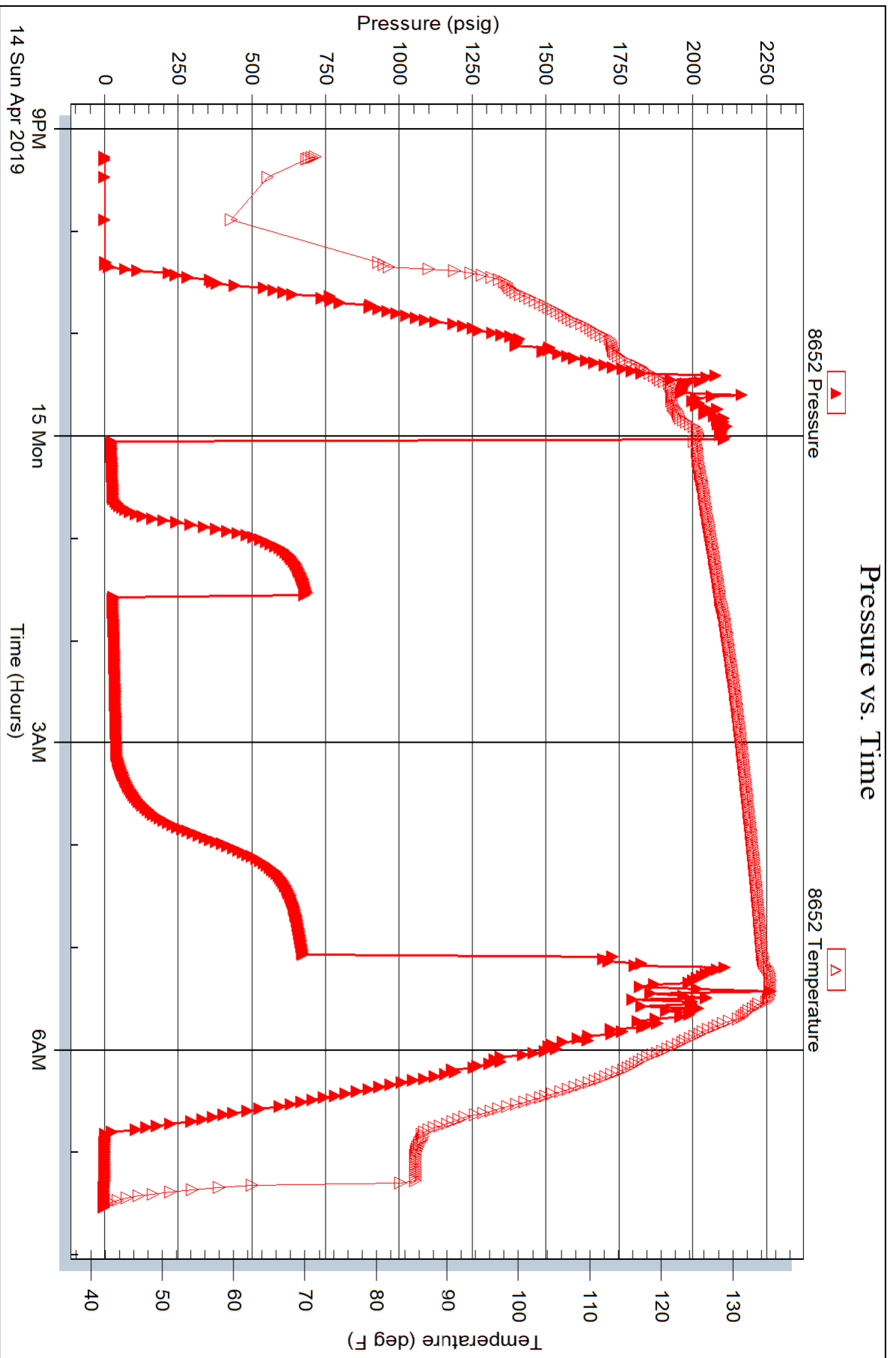
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 25API @ 46DEG F Corrected gravity 26.4 API







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65359

DST#: 2

ATTN: Bryan Bynog

Test Start: 2019.04.15 @ 21:19:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:47:00

Time Test Ended: 06:03:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder/Shaw n W

Unit No: 83

Interval: 4260.00 ft (KB) To 4366.00 ft (KB) (TVD)

Reference Elevations: 3397.00 ft (KB)

Total Depth: 4366.00 ft (KB) (TVD)

3389.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8652 Outside

Press@RunDepth: 22.86 psig @ 4261.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.15

End Date:

2019.04.16

Last Calib.:

2019.04.16

Start Time:

21:19:05

End Time:

06:03:45

Time On Btm:

2019.04.15 @ 23:46:15

Time Off Btm:

2019.04.16 @ 03:59:45

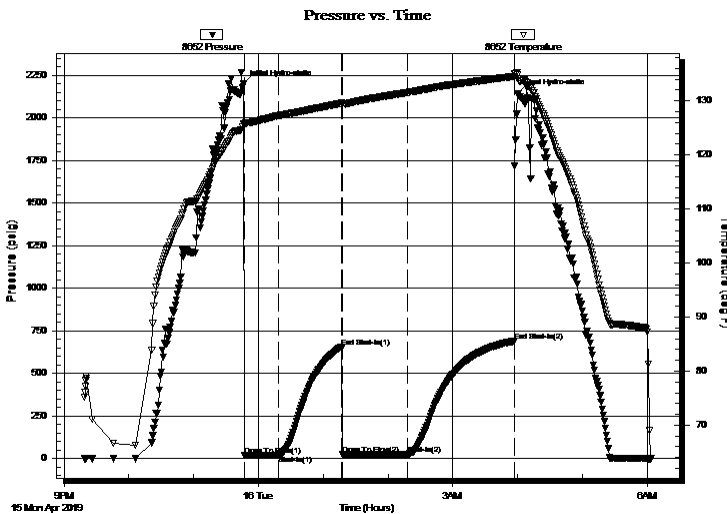
TEST COMMENT: 30 - IF: 1/4" Blow at open, built to almost 1"

60 - IS: No blow back

60 - FF: No blow

90 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.74	125.65	Initial Hydro-static
1	20.05	125.57	Open To Flow (1)
32	20.86	127.25	Shut-In(1)
91	656.32	129.55	End Shut-In(1)
92	22.92	129.50	Open To Flow (2)
152	22.86	131.52	Shut-In(2)
251	689.55	134.53	End Shut-In(2)
254	2143.22	134.76	Final Hydro-static

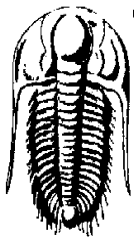
Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w /Oil spots 98%m, 2%o	0.07

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65359

DST#: 2

ATTN: Bryan Bynog

Test Start: 2019.04.15 @ 21:19:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:47:00

Time Test Ended: 06:03:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder/Shaw n W

Unit No: 83

Interval: 4260.00 ft (KB) To 4366.00 ft (KB) (TVD)

Total Depth: 4366.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3397.00 ft (KB)

3389.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6625

Inside

Press@RunDepth: psig @ 4261.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.15

End Date:

2019.04.16

Last Calib.:

2019.04.16

Start Time: 21:19:05

End Time:

06:04:15

Time On Btm:

Time Off Btm:

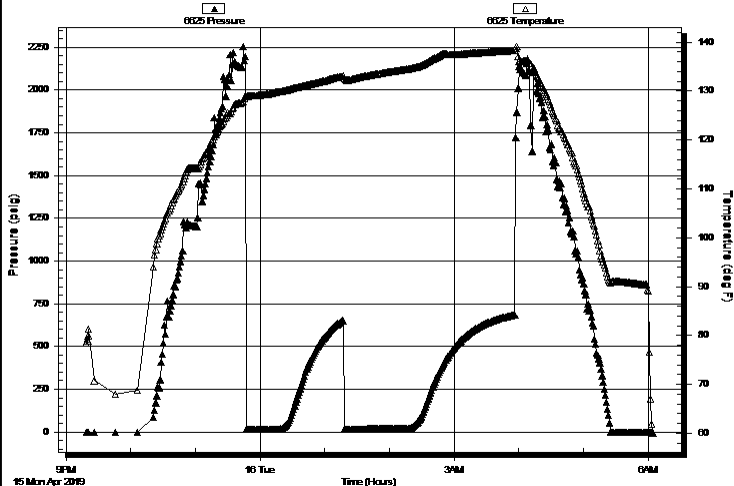
TEST COMMENT: 30 - IF: 1/4" Blow at open, built to almost 1"

60 - IS: No blow back

60 - FF: No blow

90 - FS: No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w /Oil spots 98% _m , 2% _o	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

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65359

DST#: 2

ATTN: Bryan Bynog

Test Start: 2019.04.15 @ 21:19:00

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud w /Oil spots 98% _m , 2% _o	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

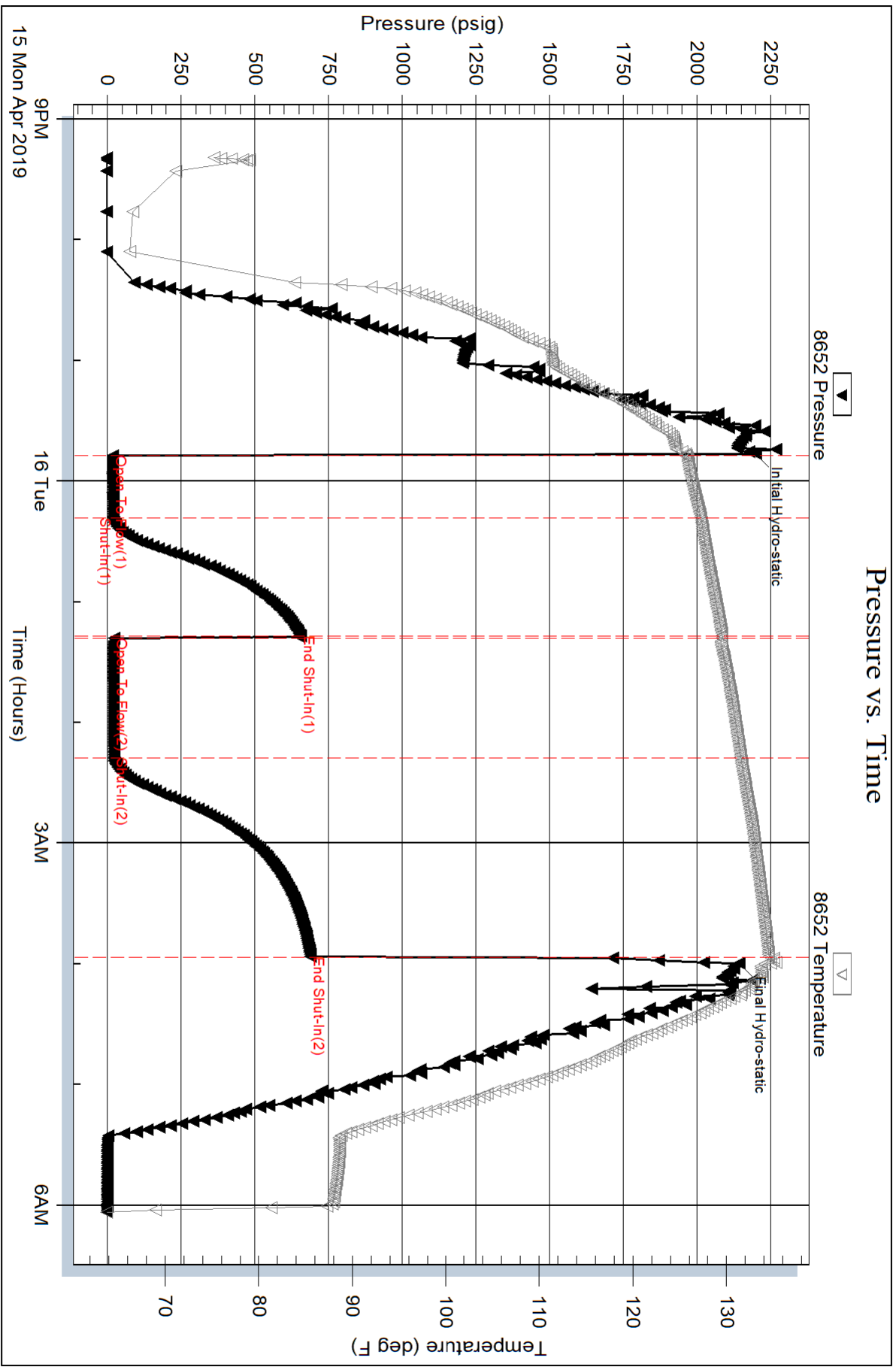
Num Gas Bombs: 0

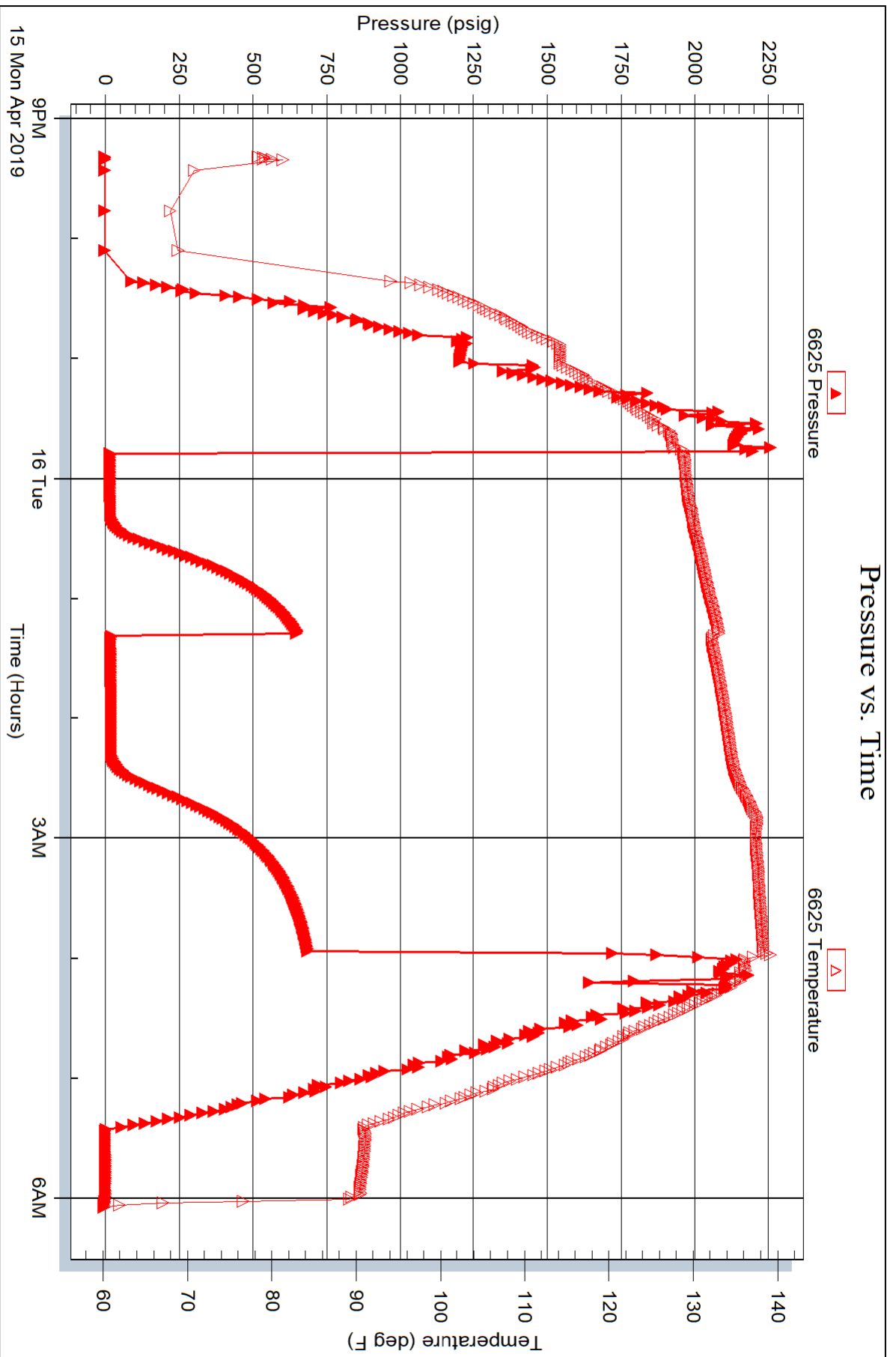
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65360

DST#: 3

ATTN: Bryan Bynog

Test Start: 2019.04.16 @ 21:09:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:57:45

Time Test Ended: 07:34:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder/Shaw n W

Unit No: 83

Interval: 4398.00 ft (KB) To 4460.00 ft (KB) (TVD)

Reference Elevations: 3397.00 ft (KB)

Total Depth: 4460.00 ft (KB) (TVD)

3389.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8652 Outside

Press@RunDepth: 336.42 psig @ 4399.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.16

End Date:

2019.04.17

Last Calib.:

2019.04.17

Start Time:

21:09:05

End Time:

07:34:15

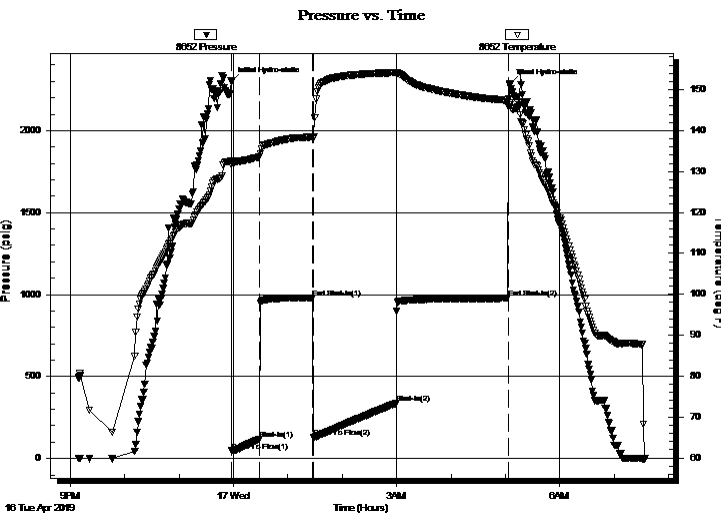
Time On Btm:

2019.04.16 @ 23:57:30

Time Off Btm:

2019.04.17 @ 05:05:00

TEST COMMENT: 30-IF-1" Blow at open, built to BOB (11") at 19 1/2 min, built to 15 1/2"
60-ISI-No blow back
90-FF-Blow built to BOB at 28 min, built to 40 1/4"
120-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2295.70	132.53	Initial Hydro-static
1	47.02	131.65	Open To Flow (1)
31	118.23	133.59	Shut-In(1)
90	979.63	138.51	End Shut-In(1)
91	128.94	138.25	Open To Flow (2)
182	336.42	154.13	Shut-In(2)
306	976.69	147.41	End Shut-In(2)
308	2283.94	146.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
625.00	SMCW 97%W, 3%M	8.20
95.00	MCW 73%W, 27%M	1.33

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65360

DST#: 3

ATTN: Bryan Bynog

Test Start: 2019.04.16 @ 21:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

18000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
625.00	SMCW 97%W, 3%M	8.202
95.00	MCW 73%W, 27%M	1.333

Total Length: 720.00 ft Total Volume: 9.535 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

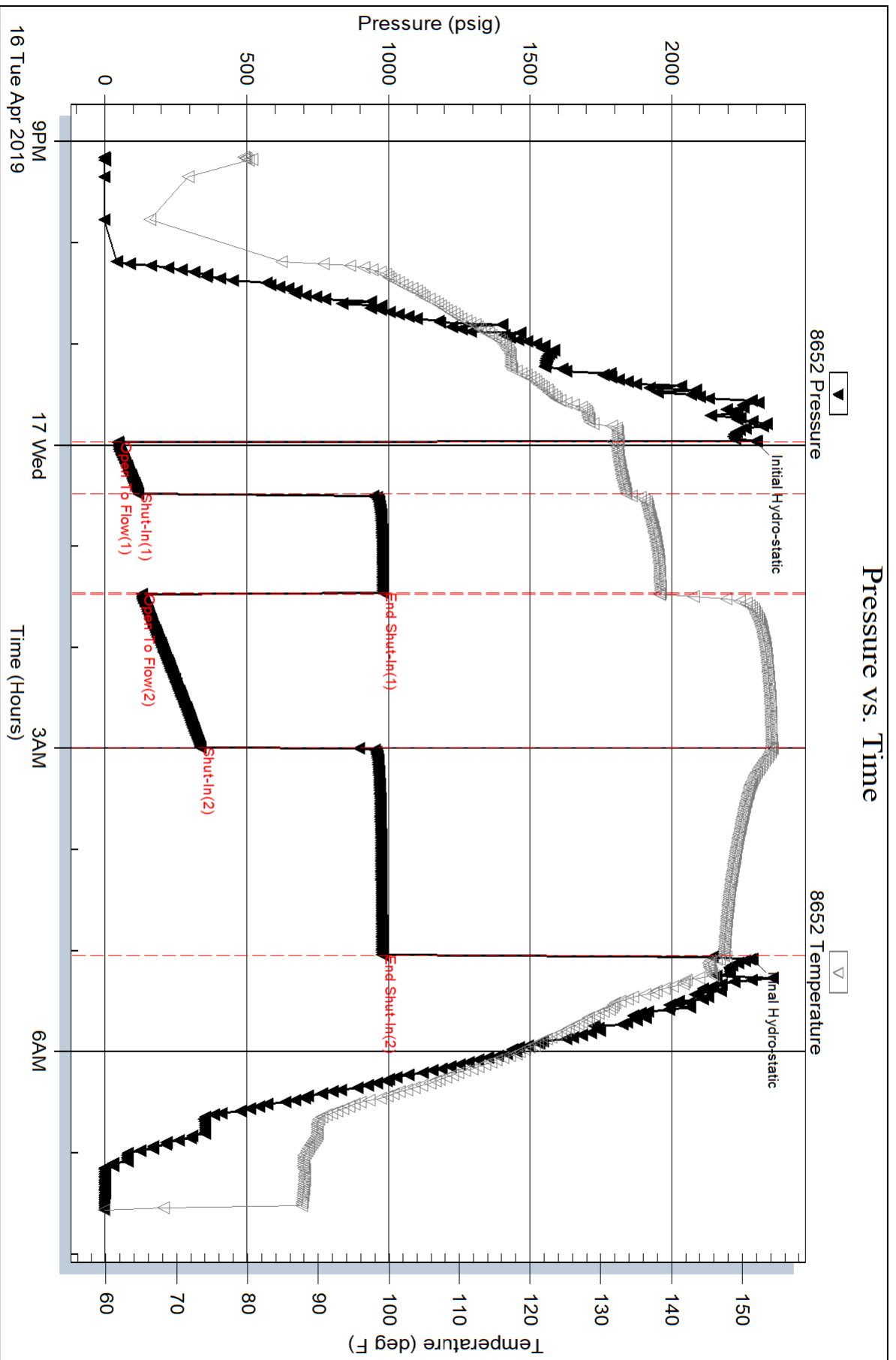
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .539@ 49.6 deg F Chlorides 18000 PPM

Pressure vs. Time



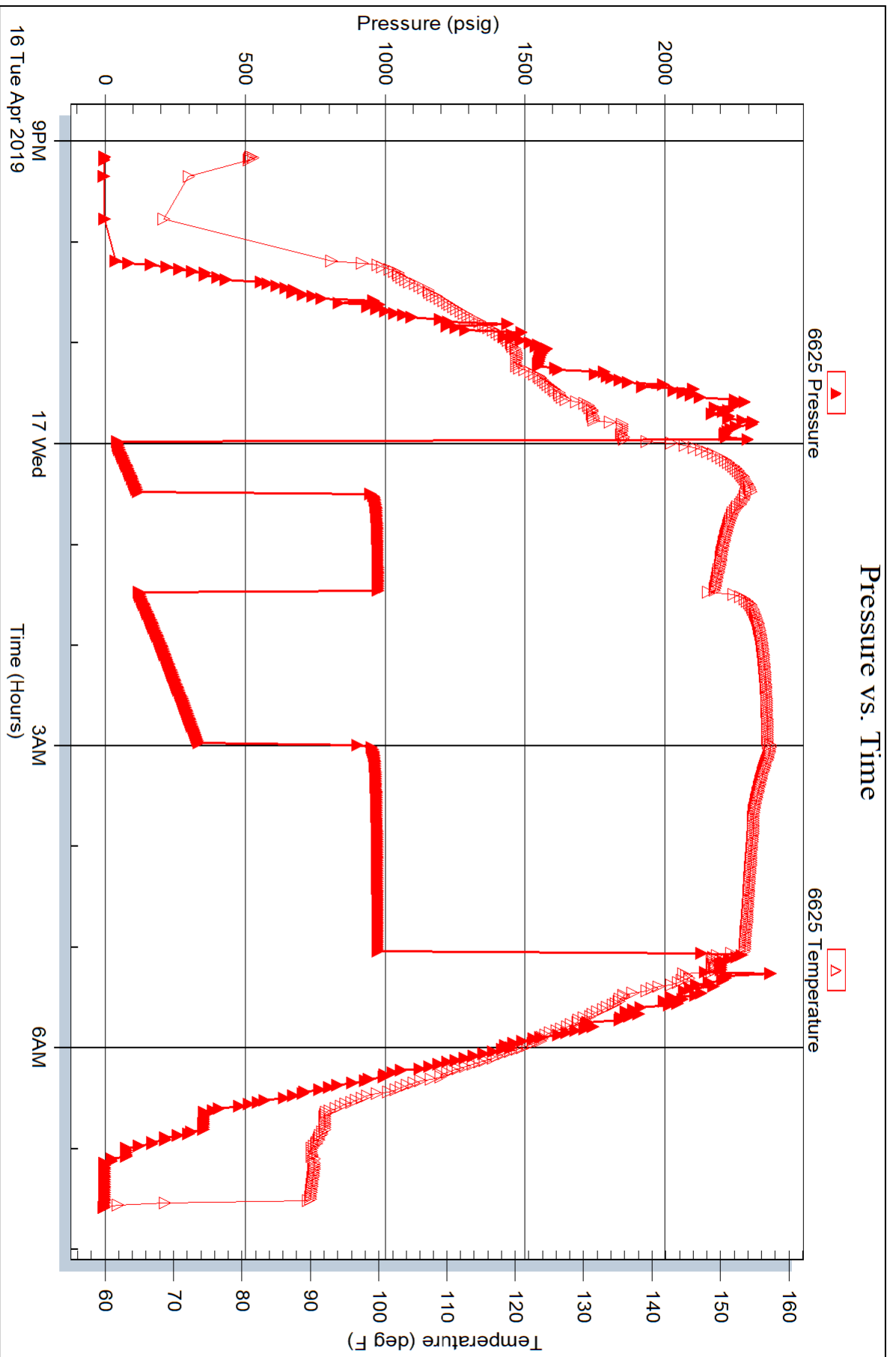
Serial #: 6625

Inside

Berexco LLC

Bud #1-12

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65361

DST#: 4

ATTN: Bryan Bynog

Test Start: 2019.04.17 @ 22:25:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:41:45

Time Test Ended: 07:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder/Shaw n W

Unit No: 83

Interval: 4454.00 ft (KB) To 4515.00 ft (KB) (TVD)

Reference Elevations: 3397.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

3389.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8652 Outside

Press@RunDepth: 121.01 psig @ 4455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.17

End Date:

2019.04.18

Last Calib.:

2019.04.18

Start Time:

22:25:05

End Time:

07:51:00

Time On Btm:

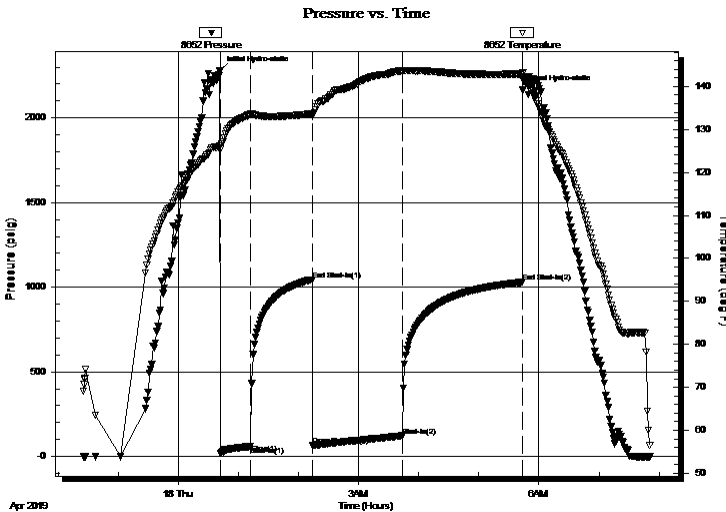
2019.04.18 @ 00:41:15

Time Off Btm:

2019.04.18 @ 05:44:00

TEST COMMENT: 30-IF-1/4" of blow @ open built to 5 3/4"
60-ISI-No blow back
90-FF-Blow built to 9"
120-FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.87	126.23	Initial Hydro-static
1	18.29	125.36	Open To Flow (1)
31	60.60	133.54	Shut-In(1)
92	1044.22	133.58	End Shut-In(1)
93	63.83	133.12	Open To Flow (2)
182	121.01	143.59	Shut-In(2)
303	1029.50	142.88	End Shut-In(2)
303	2165.03	143.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	HMCO W/Trace oil 61%W, 39%M	0.30
63.00	VSO/WCM 77%M, 17%W, 4%G, 2%O	0.88
95.00	VSO/M 92%M, 4%O, 4%G	1.33

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65361

DST#: 4

ATTN: Bryan Bynog

Test Start: 2019.04.17 @ 22:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	HMCO W/Trace oil 61%W, 39%M	0.305
63.00	VSO/WCM 77%M, 17%W, 4%G, 2%O	0.884
95.00	VSOCM 92%M, 4%O, 4%G	1.333

Total Length: 220.00 ft Total Volume: 2.522 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

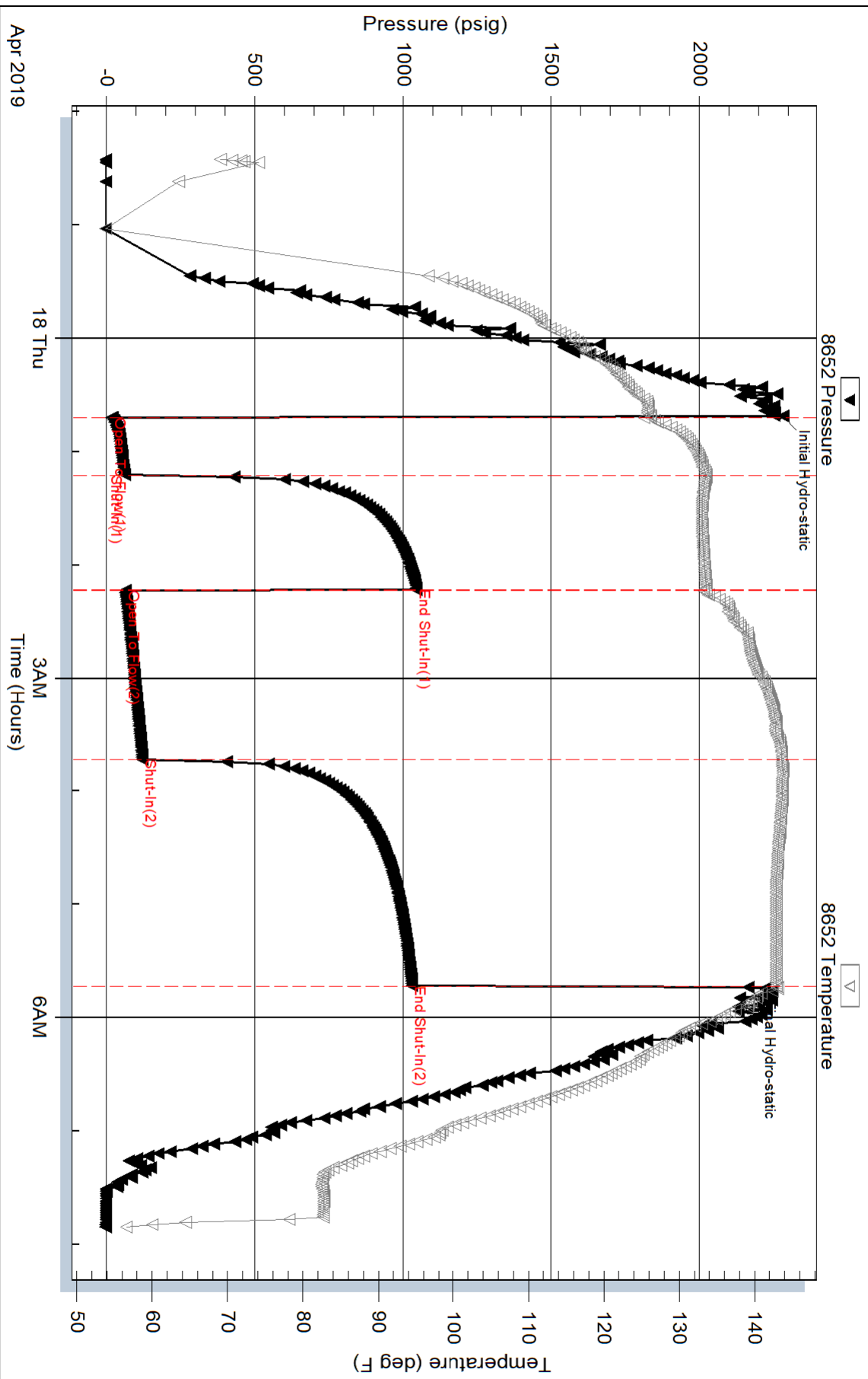
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .525@42.3 DEG F Chlorides = 23,000 ppm

Pressure vs. Time



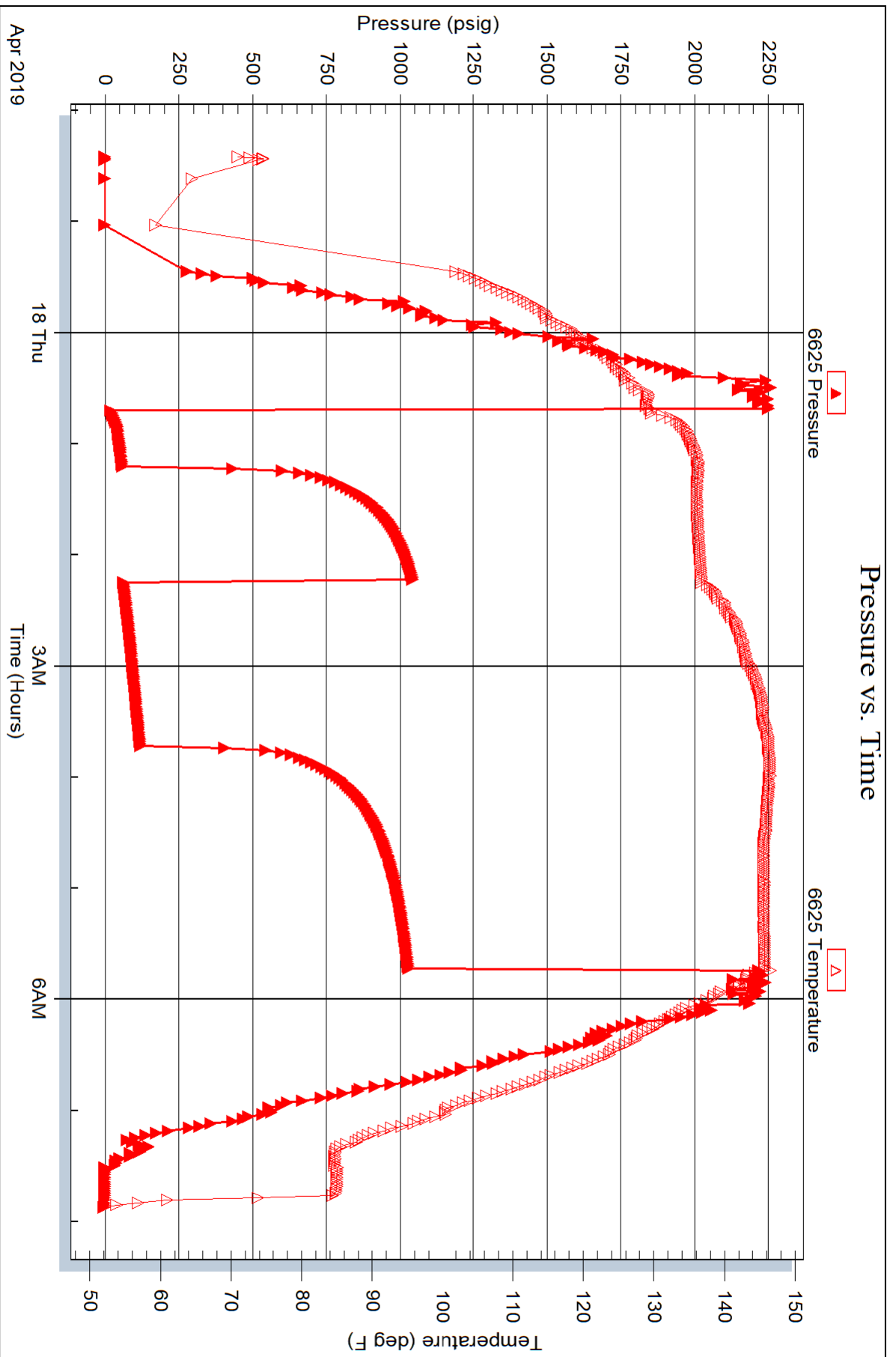
Serial #: 6625

Inside

Berexco LLC

Bud #1-12

DST Test Number: 4





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita KS 67206
 ATTN: Bryan Bynog

12/25/37W Cheyenne KS
Bud #1-12
 Job Ticket: 65362 **DST#: 5**
 Test Start: 2019.04.18 @ 19:52:00

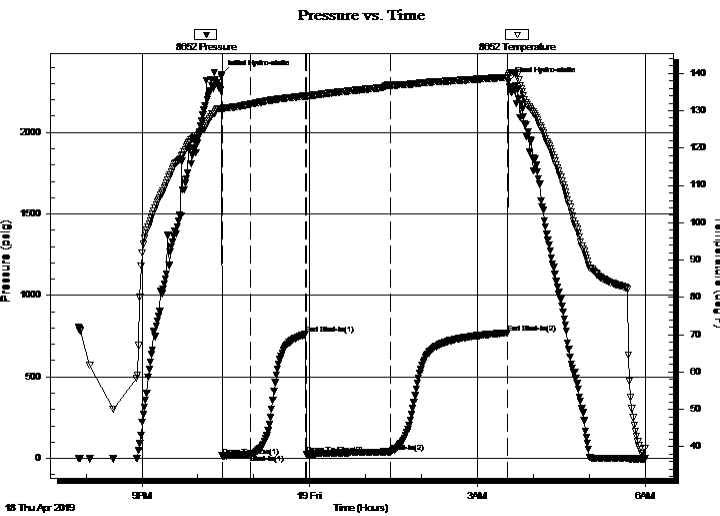
GENERAL INFORMATION:

Formation: **LKC "E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:25:45
 Time Test Ended: 05:59:15
 Interval: **4496.00 ft (KB) To 4550.00 ft (KB) (TVD)**
 Total Depth: 4550.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder/Shaw n W
 Unit No: 83
 Reference Elevations: 3397.00 ft (KB)
 3389.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8652 Outside

Press@RunDepth: 39.37 psig @ 4497.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.18 End Date: 2019.04.19 Last Calib.: 2019.04.19
 Start Time: 19:52:05 End Time: 05:59:15 Time On Btm: 2019.04.18 @ 22:25:30
 Time Off Btm: 2019.04.19 @ 03:32:45

TEST COMMENT: 30 - IF: Blow built to 1"
 60 - IS: No blow back
 90 - FF: Blow built to 2"
 120 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2353.04	130.68	Initial Hydro-static
1	15.66	130.00	Open To Flow (1)
32	23.21	131.77	Shut-In(1)
90	760.45	133.94	End Shut-In(1)
91	25.92	133.81	Open To Flow (2)
181	39.37	136.86	Shut-In(2)
307	770.32	138.93	End Shut-In(2)
308	2310.64	139.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	HOCM 62% _m , 36% _o , 2% _g	0.30
5.00	CGO 88% _o , 12% _g	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65362

DST#: 5

ATTN: Bryan Bynog

Test Start: 2019.04.18 @ 19:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	HOCM 62% <i>m</i> , 36% <i>o</i> , 2% <i>g</i>	0.305
5.00	CGO 88% <i>o</i> , 12% <i>g</i>	0.070

Total Length: 67.00 ft Total Volume: 0.375 bbl

Num Fluid Samples: 0

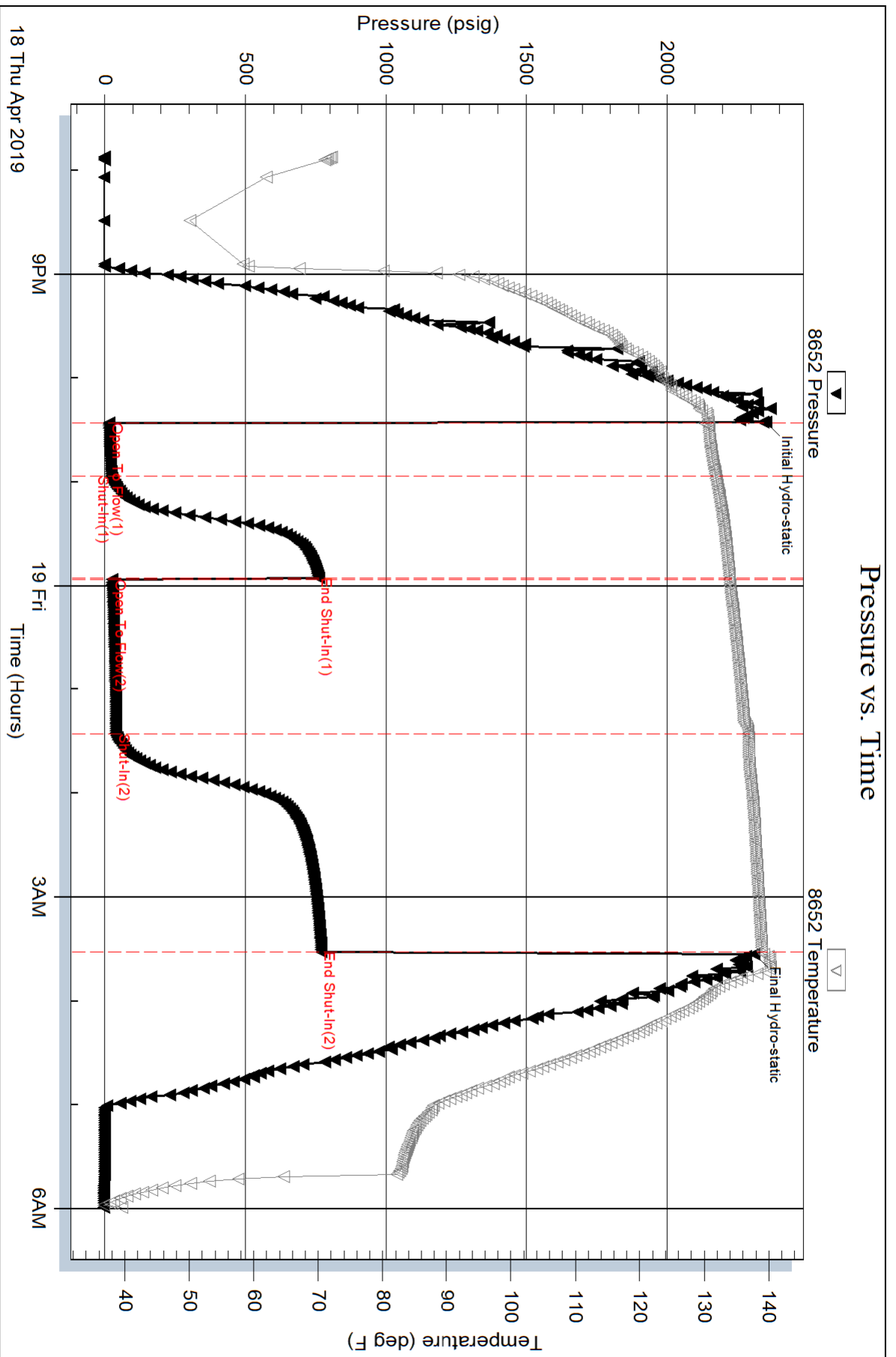
Num Gas Bombs: 0

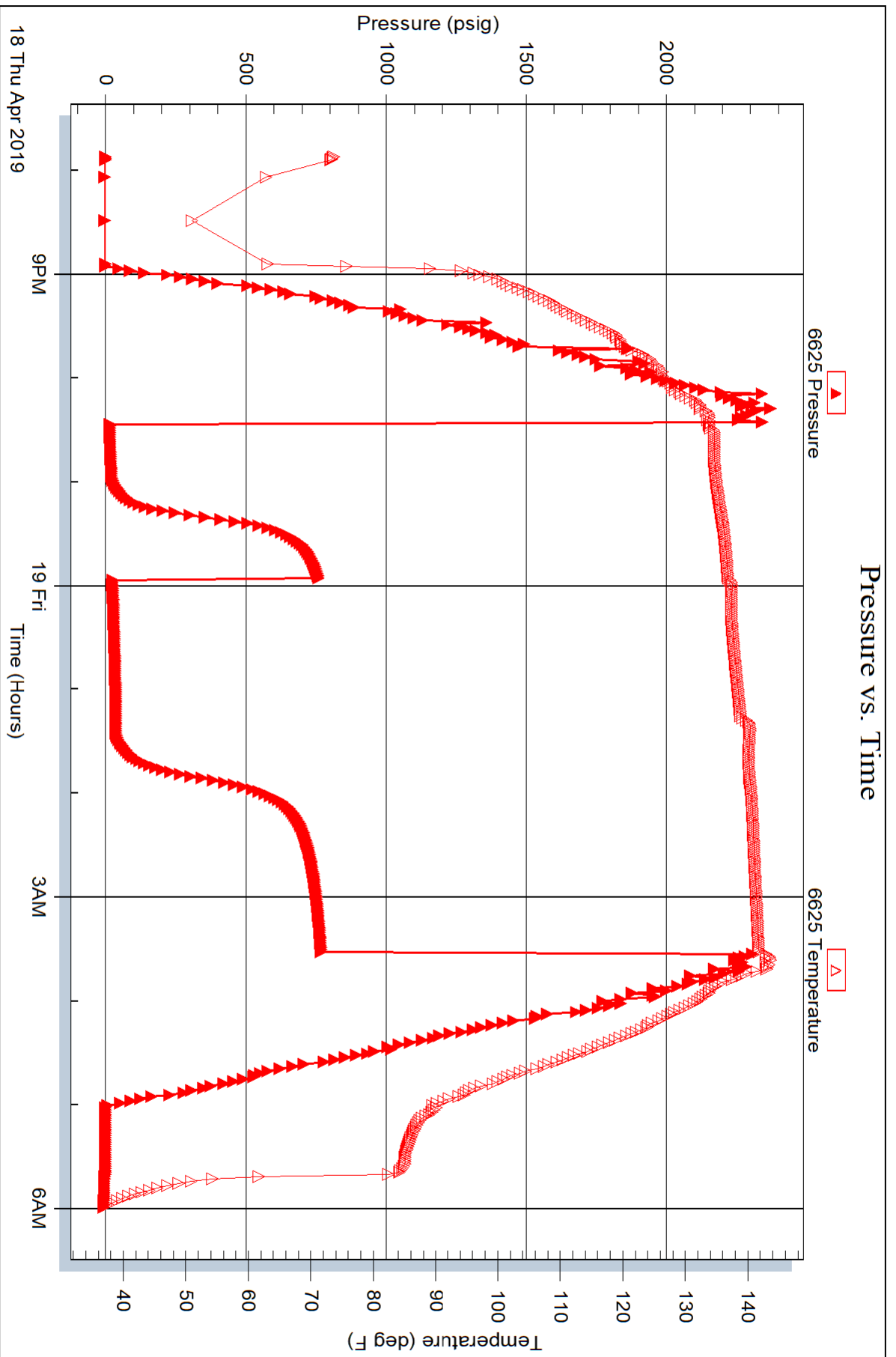
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 36 api @ 36 deg F Corrected Gravity = 38.4 api







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65363

DST#: 6

ATTN: Bryan Bynog

Test Start: 2019.04.20 @ 10:33:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:04:30

Time Test Ended: 20:42:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4685.00 ft (KB) To 4750.00 ft (KB) (TVD)

Reference Elevations: 3397.00 ft (KB)

Total Depth: 4750.00 ft (KB) (TVD)

3389.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8652 Outside

Press@RunDepth: 18.63 psig @ 4686.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.20 End Date: 2019.04.20

Last Calib.: 2019.04.20

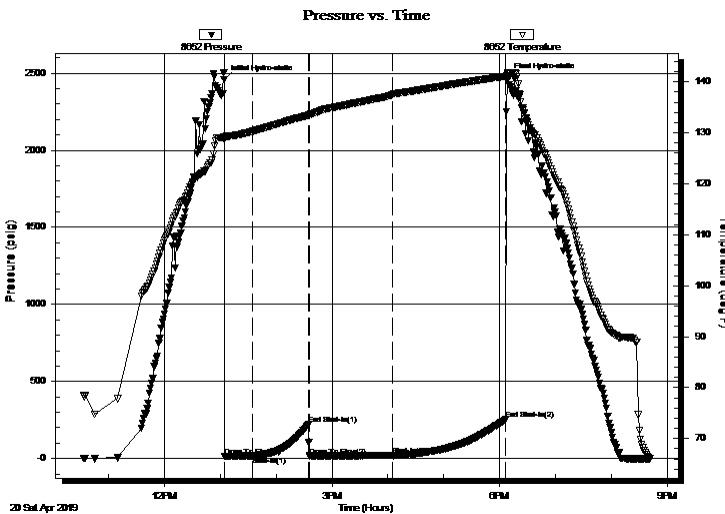
Start Time: 10:33:05 End Time: 20:42:15

Time On Btm: 2019.04.20 @ 13:04:00

Time Off Btm: 2019.04.20 @ 18:08:15

TEST COMMENT: 30 - IF: Blow built to just over 1/2"
60 - IS: No blow back
90 - FF: No blow
120 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2460.10	129.23	Initial Hydro-static
1	15.34	128.69	Open To Flow (1)
30	16.52	130.28	Shut-In(1)
91	219.42	133.47	End Shut-In(1)
92	14.90	133.48	Open To Flow (2)
181	18.63	137.52	Shut-In(2)
303	251.80	141.09	End Shut-In(2)
305	2468.84	141.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w /trace oil 100%m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

12/25/37W Cheyenne KS

2020 N Bramblewood
Wichita KS 67206

Bud #1-12

Job Ticket: 65363

DST#: 6

ATTN: Bryan Bynog

Test Start: 2019.04.20 @ 10:33:00

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud w /trace oil 100% m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

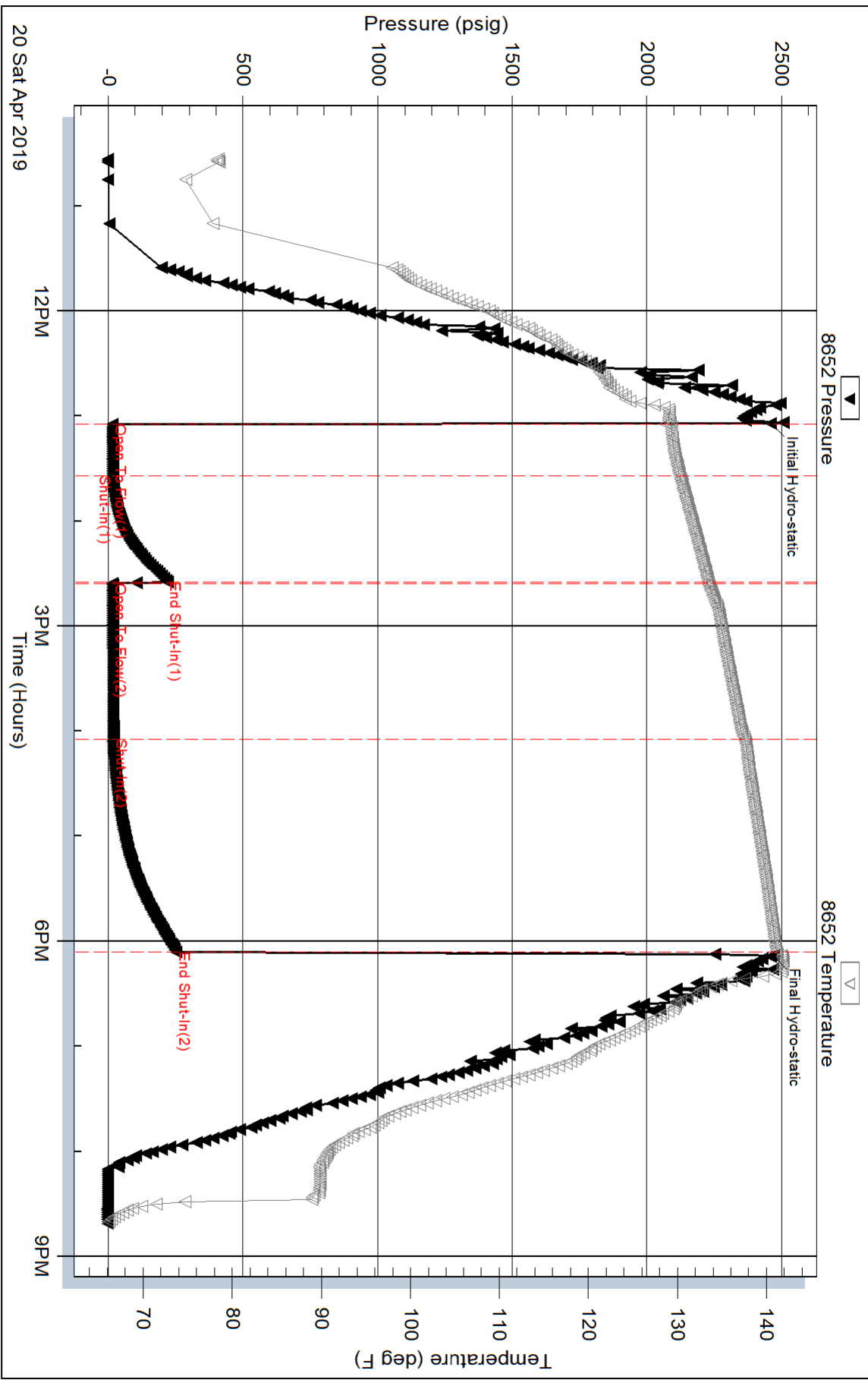
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



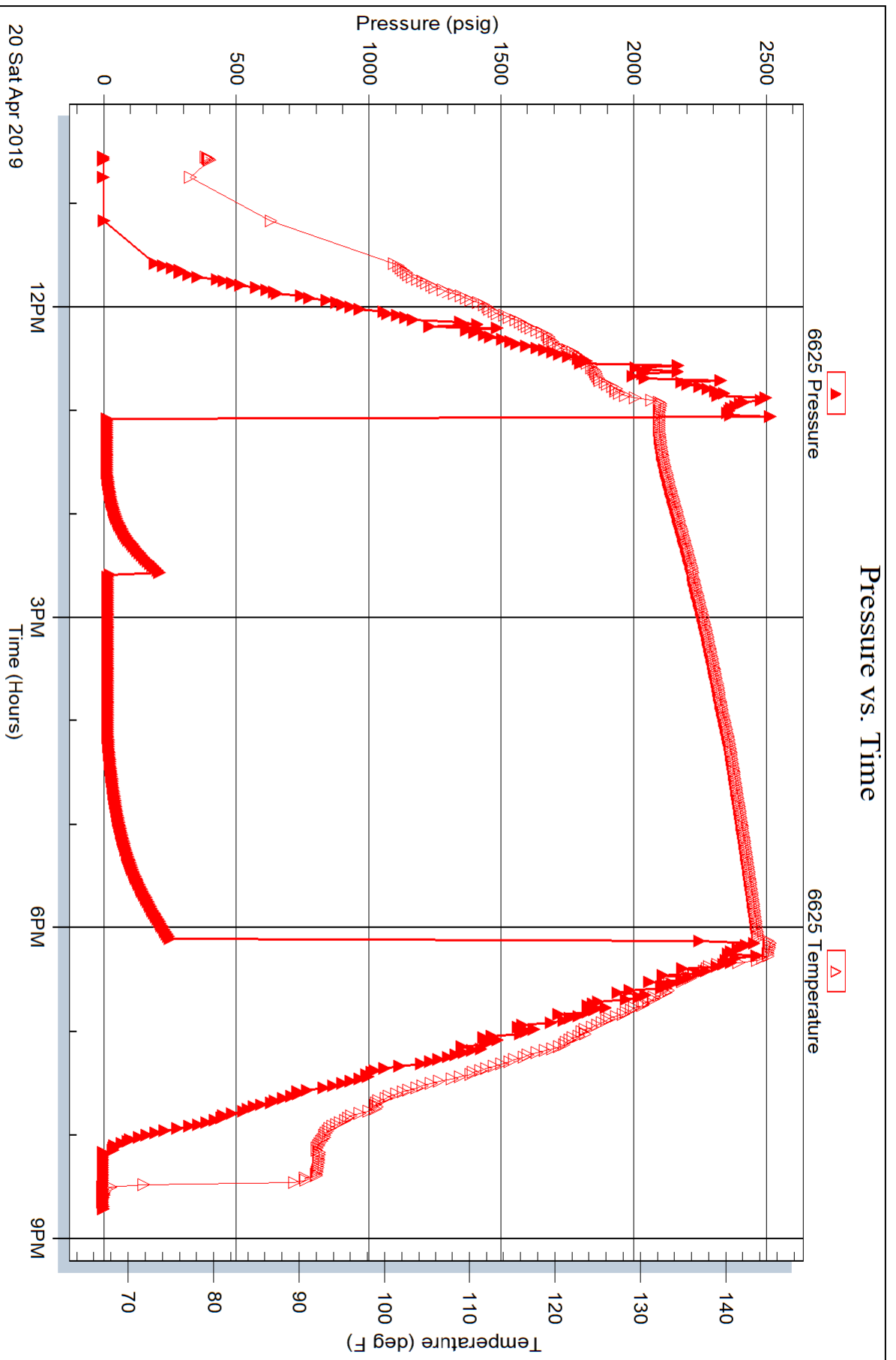
Serial #: 6625

Inside

Berexco LLC

Bud #1-12

DST Test Number: 6



LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: BUD #1-12
Well Id:
Location: E2NENWNW SECTION 12 2S-37 CHEYENNE COUNTY, KANSAS
License Number: 15-023-21507
Spud Date: 4-10-2019
Surface Coordinates: 340' FNL & 1200'FWL
Region: Midcontinent
Drilling Completed: 4-22-2019

Bottom Hole
Coordinates:
Ground Elevation (ft): 3389
Logged Interval (ft): 3600
Formation: LKC, PAWNEE, FORT SCOTT, & CHEROKEE
Type of Drilling Fluid: WBM
K.B. Elevation (ft): 3397
To: 4945
Total Depth (ft): 4945

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

OPERATOR

Company: BEREXCO, LLC.
Address: 2020 N. Bramblewood
Wichita, Kansas 67206

GEOLOGIST

Name: William B. Bynog
Company:
Address: P.O.Box 687
Pinecliffe, Co. 80471

Surveys

DEPTH ANGLE

4258 .5

DSTs


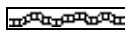
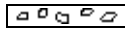
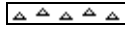
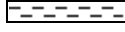
DST#1 4188-4258, DST#2 4360-4366, DST#3 4398-4460, DST#4 4454-4515, DST#5 4496-4550, DST#6 4685-4750

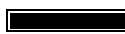




Remarks



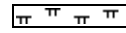

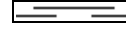
DRY HOLE

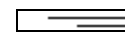
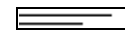



LOGS RECORDED 5 FEET DEEPER THAN RIG T.D.

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst

 Coal
 Congl
 Dol
 Gyp
 Igne

 Lmst
 Meta
 Mrlst
 Salt
 Shale

 Shcol
 Shgy
 Slstst
 Ss
 Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymn
- 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
- Wackst

OTHER SYMBOLS

POROSITY

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOW

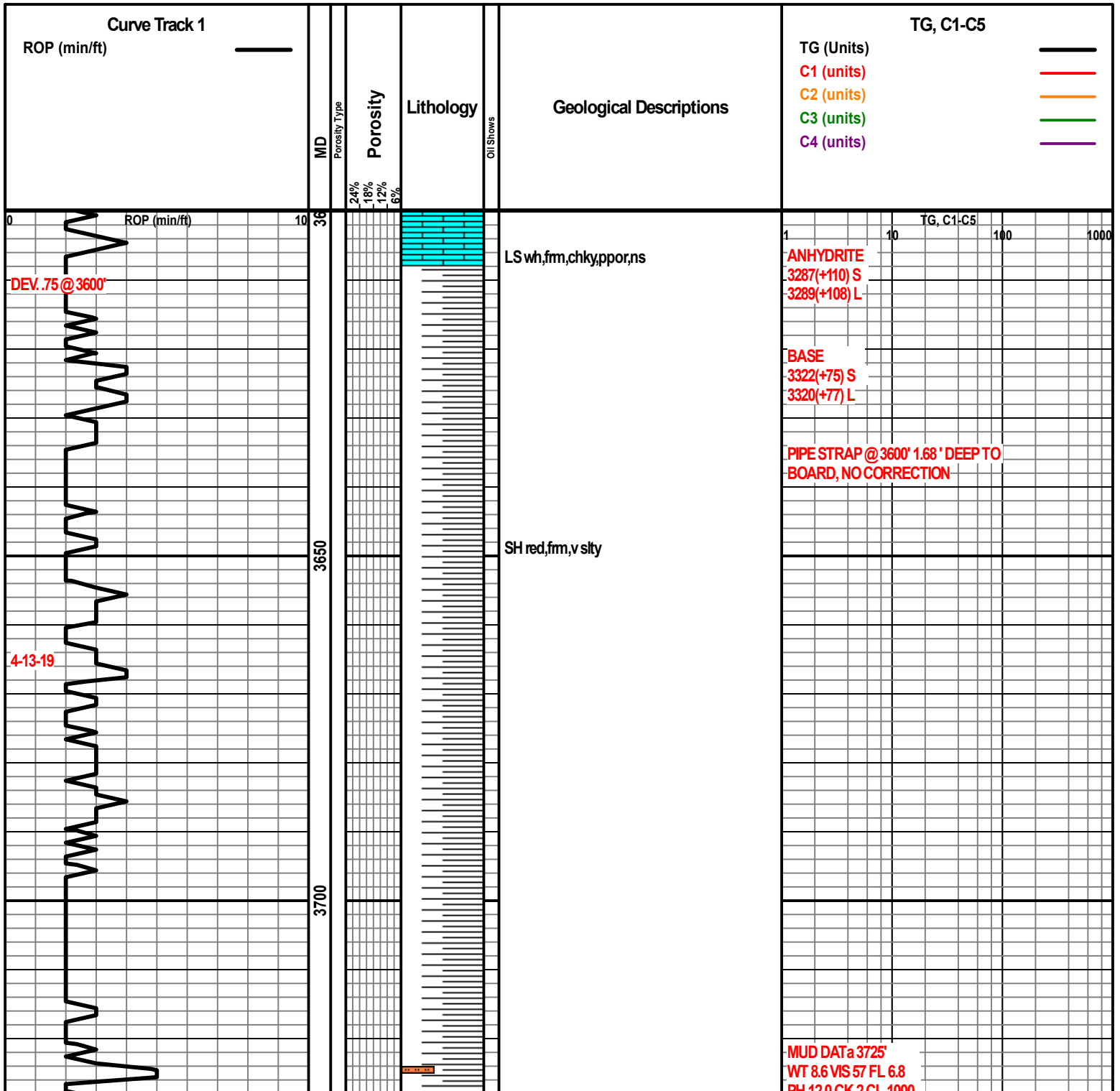
- Even
- Spotted
- Ques
- Dead

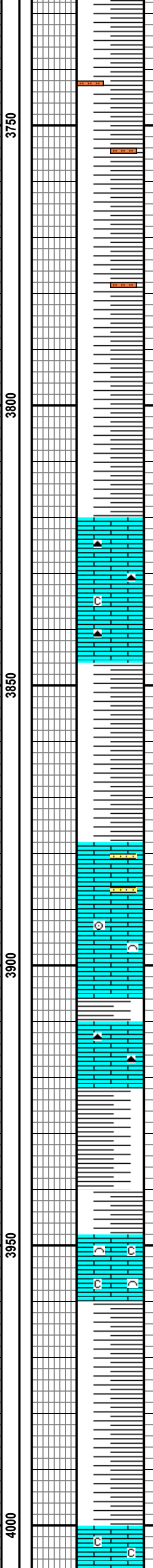
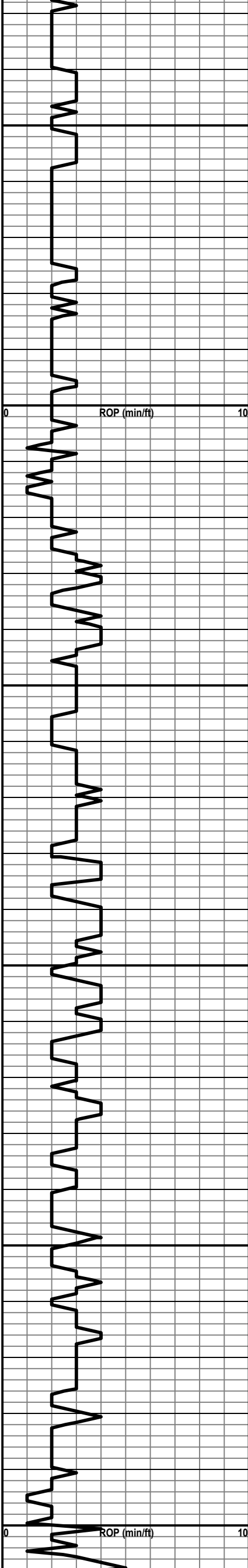
INTERVAL

- Dst
- Dst

EVENT

- Rft
- Sidewall





SH red,sft,bcmg v arg some v slty

LS cm-pale gy,hd,sl foss,dns,abnt chky ip,abnt CHT omg with thin SH strgs aa

SH red,sft,arg

LS pale gy,fm,v sdy,fg,p vis por,ns

LS gy,hd,foss,dns,p por,arg,ns with thin SH gy,gy gn,hd

LS pale gy,hd,blky,dns,chky ip,abnt CHT omg

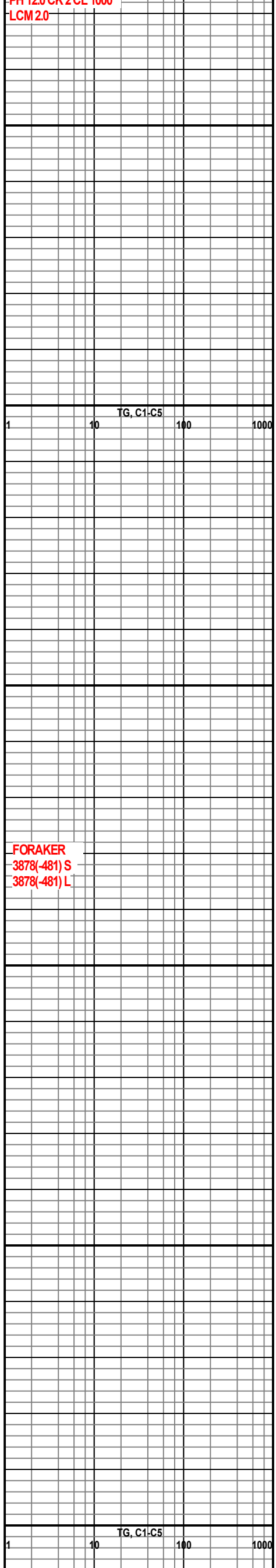
SH gy,hd,blky,calc.foss ip

Sh red,sft,v arg

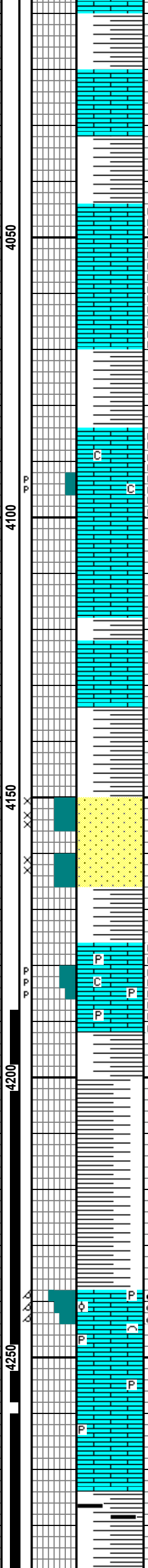
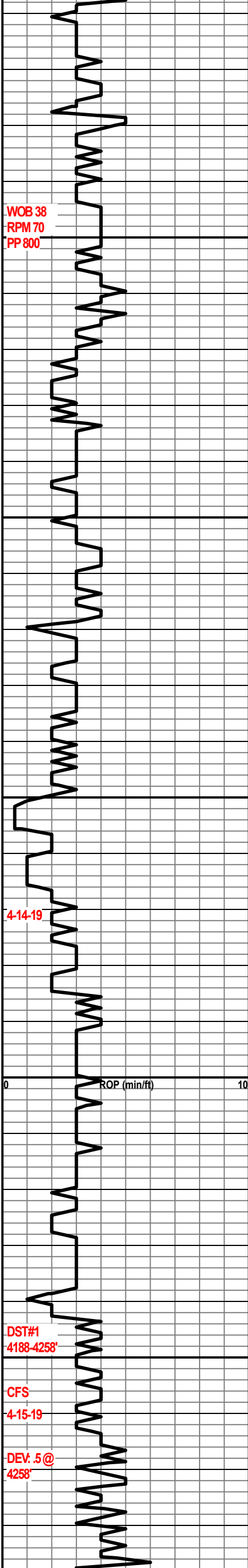
LS off wh,fm,v foss,sub chky-chky,p por,ns

SH red,sft,v arg

LS pale gy,fm,sl foss,chky ip,p por,ns



FORAKER
3878(-481) S
3878(-481) L



SH aa

LS aa, sl foss,p por, tr blk dd stn, no free oil

SH aa

LS off wh,hd,foss ip,p por, spty blk dd stn, no free oil

SH aa

LS off wh,fm,foss,chky,p pp por, spty blk dd stn, no free oil

LS wh-cm,hd,blky,dns,v fnly microxn,chky ip,p por,ns with thin SH aa

SH red,fm,arg

SS pale gn,fr,vfg,wsrtd,fr intg por,ns

SH aa

LS off wh,foss,chky,abnt pyr,p pp vuggy por,spty dd blk stn, no free oil

SH aa

SH gn,gy,blk,fm,carb ip

GRAINSTONE cm,v foss,gd omoldic por,abnt pyr,spty-even live bm stn,v g cut,gd show free oil

LS pale gy-gy bm,v hd,dns,crptoxln,abnt pyr,ns

SH blk,fm,fiss,carb

SH gn,gysft,v arg

TOPEKA
4084(-687) S
4098(-701) L

TG, C1-C5

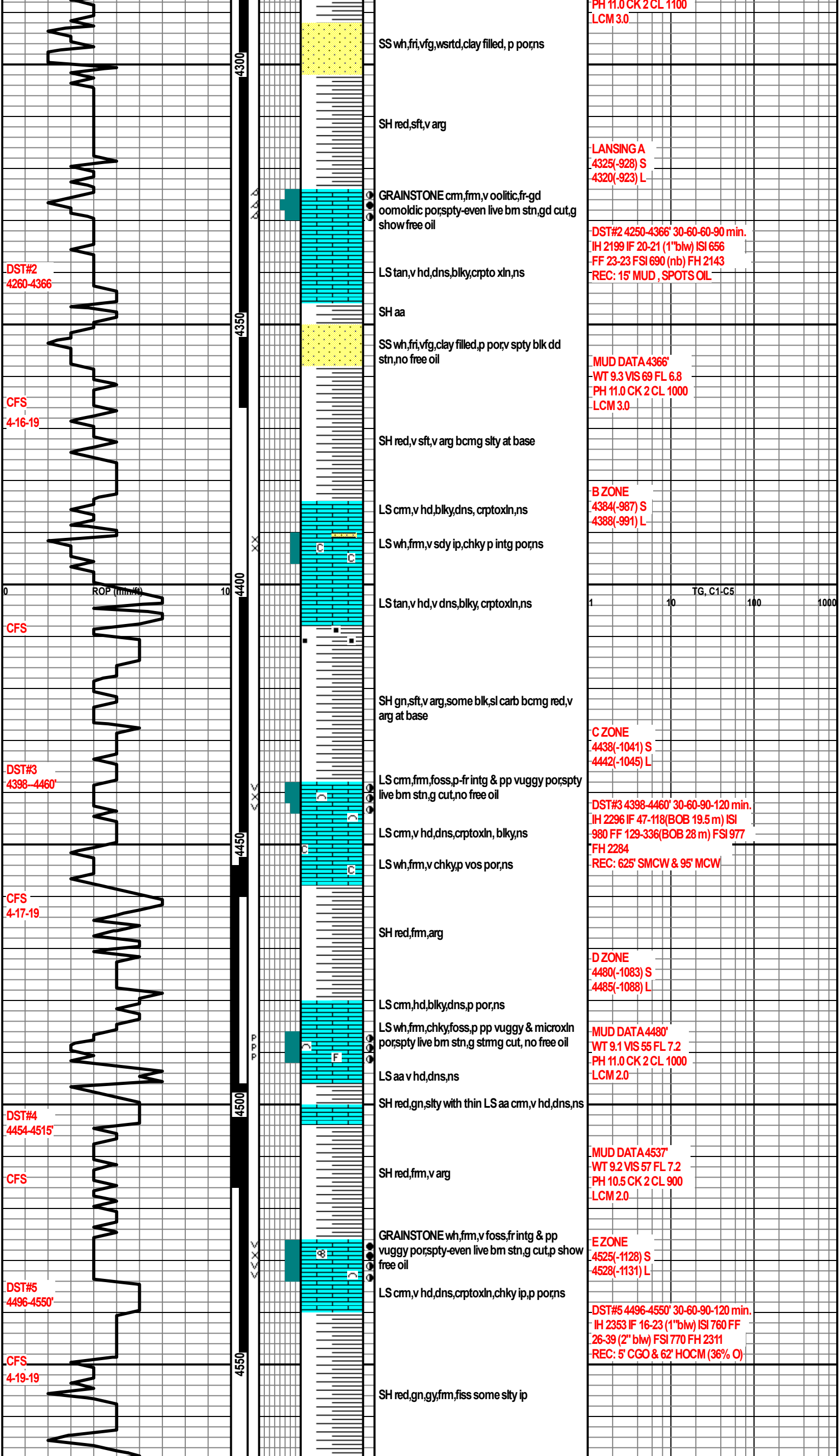
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WT 8.9 VIS 61 FL 7.2
PH 11.5 CK 2 CL 1000
LCM 3.0

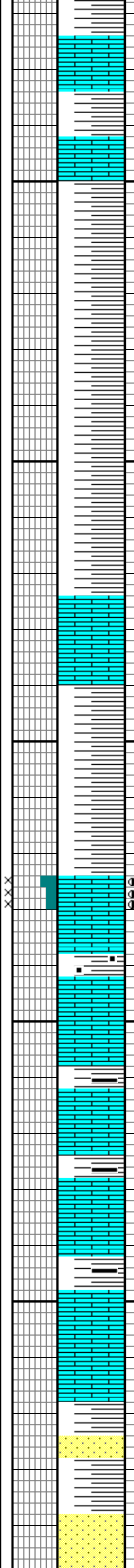
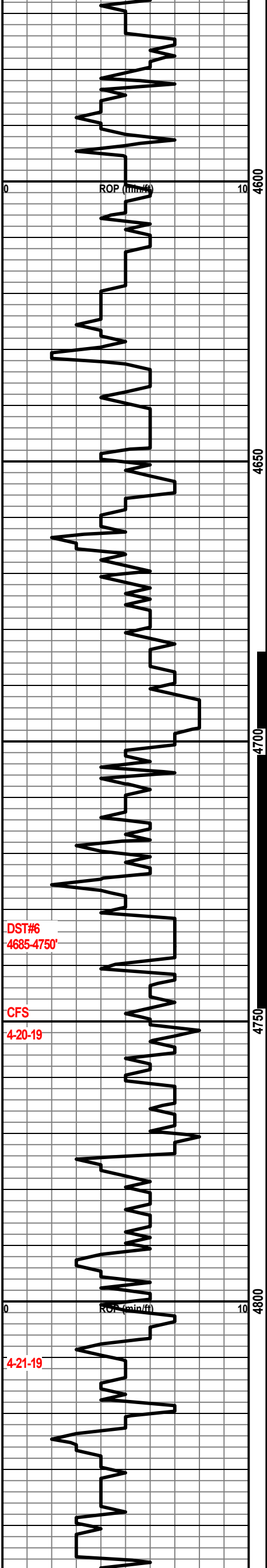
OREAD
4238(-841) S
4238(-841) L

DST#1 4188-4258' 30-60-90-120 min.
IH 2133 IF 22-20 (1" blw) ISI 684
FF 24-35 (.5" blw) FSI 669 FH 2099
REC: 5' HMCO & 40' HOCM (30% O)

PIPE STRAP @ 4258' 1.89' LONG TO BOARD, NO CORRECTION

MUD DATA 4281'
WT 9.1 VIS 66 FL 6.8





LS cm,v hd,dns,sl foss, crptoxln,chky ip,ns

SH aa

LS aa dns,blk,ns

SH red,some gn,sft,v arg

LS cm-pale gy,hd,dns, blk,crptoxln,ns some chky ip

SH red,gn,gy,frm,bcmg britt

LS wh,frm,foss,p-fr intg & microxln por,spty live bm stn,g cut,g show free oil

LS cm,hd,dns,crptoxln,ns

SH aa some blk,carb

LS cm-pale gy,v hd,dns,blk, sl foss,p por,ns with thin SH aa

LS pale gy,v hd,v dns, crptoxln,ns

SH blk,frm,carb

LS cm-pale gy,v hd,dns, p por,ns

SH aa v carb

LS cm,v hd,blk,dns, crptoxln,ns

SH red,frm,arg

SS tmsl,frm,f-m gr,wrtd, fr intg por,ns

SH aa

SS pale gn,fr,fn gr,fr por,ns

F ZONE
4564(-1167) S
4564(-1167) L

TG, C1-C5

MUD DATA 4603'
WT 9.5 VIS 52 FL 8.8
PH 10.0 CK 2 CL 1000
LCM 2.0

DST#6 4685-4750' 30-60-90-120 min.
IH 2460 IF 15-17 (.5" blw) ISI 219
FF 15-19 FSI 252 FH 2469
REC: 2' MUD, TRACE OIL

PAWNEE
4724(-1327) S
4722(-1325) L

FT. SCOTT
4742(-1345) S
4750(-1353) L

MUD DATA 4750'
WT 9.2 VIS 63 FL 8.0
PH 11.0 CK 2 CL 800
LCM 1.0

CHEROKEE
4798(-1401) S
4800(-1403) L

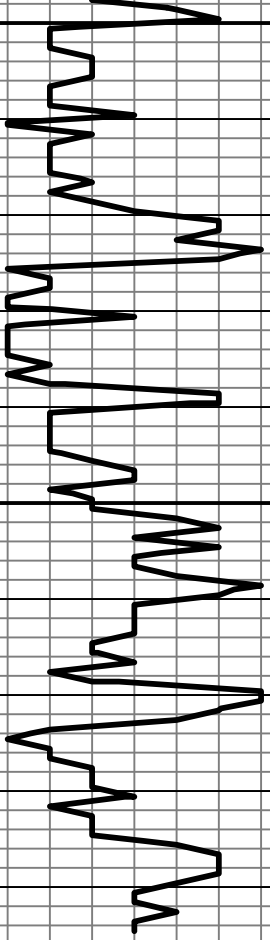
TG, C1-C5

DST#6
4685-4750'

CFS
4-20-19

4-21-19

4850
4900
4950
00



SH red, fm, britt

SS wh-tmsl, fm, f-c grp srted, ang, fr intg por, ns

SH aa with thin SS aa

SH margn, yell, fm, fiss some sdy ip

SS pale gn, fm, f-c grp srted, some micaceous, dirty, p-fr intg por, ns

SH aa

RTD 4945'
LTD 4950'

MUD DATA 4922'
WT 9.3 VIS 68 FL 8.4
PH 10.5 CK 2 CL 1000
LCM 2.0