

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](mailto: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
--	---

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	MCFEE 1-4
Doc ID	1412376

All Electric Logs Run

Radiation Guard Log
Microresistivity Log
Dual Induction Log
Dual Compensated Porosity
Sonic Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	MCFEE 1-4
Doc ID	1412376

Tops

Name	Top	Datum
Anhydrite	3190	83
Foraker	3234	39
Topeka	3995	-722
Oread	4138	-865
LKC A	4215	-942
LKC B	4280	-1007
LKC C	4333	-1060
LKC D	4379	-1106
LKC E	4423	-1150
Pawnee	4616	-1343
Ft Scott	4647	-1374
Cherokee	4672	-1399
RTD	4800	-1527
LTD	4796	-1523





Jan. 5. 2018 2:24PM  
 PRESSURE PUMPING LLC  
 PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

9820  
 9715

No. 0499 P. 2

TICKET NUMBER 54991  
 LOCATION Oakley Ks  
 FOREMAN Jerry Y

FIELD TICKET & TREATMENT REPORT  
 CEMENT

Invoice # 812177 Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-3-18	1707	McFee 1-4	4	25	37W	Cheyenne
CUSTOMER <u>Berexco</u>			MCDONALD			
MAILING ADDRESS <u>2020 N. Blomblewood Street</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Wichita</u> STATE <u>KS</u> ZIP CODE <u>67206</u>			<u>731</u>	<u>Con D</u>		
			<u>772-T-127</u>	<u>PDW</u>		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 306 CASING SIZE & WEIGHT 5 5/8 23 #  
 CASING DEPTH 306 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL 124 WATER gal/sk \_\_\_\_\_ CEMENT LEFT In CASING 20'  
 DISPLACEMENT 18661 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting & rig up on Berexco Rig 2 circulate casing mix  
300 sks com 3% CC 20 gal wash up & displace with 18 bbl fresh water & shot in  
circulated approx 466' to pit

cement did  
circulate

Thank you  
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	75	MILEAGE	7.15	536.25
CE0710	14.1	ton mileage delivery	1.75	1830.63
CE5871	300 gals	Sanblex II	24.00	7200.00
CC5326	100 #	Salt	NC	NC
			Subtotal	10736.88
			-35% disc	3757.91
			Subtotal	6978.97
			SALES TAX	397.80
			ESTIMATED TOTAL	7376.77

AUTHORIZATION Pat Wagon TITLE Toolpusher DATE 1-4-18



PRESSURE PUMPING LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

9884  
9776

TICKET NUMBER 54997  
LOCATION Cakley Ks  
FOREMAN Jerry

### FIELD TICKET & TREATMENT REPORT CEMENT

Invoice # 812296

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
1-16-18	1707	M <sup>o</sup> Fee 1-4	4	25	37W	Cheyenne	
CUSTOMER <u>Berexco</u>			McDonald				
MAILING ADDRESS <u>2020 N. Bramblewood Street</u>			E-733				
CITY <u>Wichita</u>			N → X				
STATE <u>Ks</u>			1 1/2 Wagon				
ZIP CODE <u>67206</u>			into				
TRUCK #		DRIVER		TRUCK #		DRIVER	
731		Cory D					
772-T-127		Neil W					
assist		PDW					

JOB TYPE <u>Plug</u>	HOLE SIZE <u>7 7/8</u>	HOLE DEPTH <u>4800'</u>	CASING SIZE & WEIGHT
CASING DEPTH	DRILL PIPE <u>4 1/2</u>	TUBING	OTHER
SLURRY WEIGHT <u>13.8</u>	SLURRY VOL <u>1.42</u>	WATER gal/sk	CEMENT LEFT in CASING
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Safety meeting + rig up on Berexco Rig 2 plug as ordered with 255  
SKS 60/40 48 gal / 4" closed on location @ 7:00 pm 1-16-18  
50 SKS @ 3226' @ 1:00 am 1-17-18  
100 SKS @ 249.3'  
50 SKS @ 350'  
10 SKS @ 40' w / 8 5/8 wooden plug  
15 SKS MH  
30 SKS RH  
plug down @ 9:00 AM 1-17-18

Thank you  
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	75	MILEAGE	7.15	536.25
CE0710	10.97	ton mileage delivery	1.75	1439.81
CC5829	255 SKS	lite blend I	16.00	4080.00
CC6075	64 #	fl seal	3.00	192.00
CC5326	100 #	salt	NC	NC
CP6075	1	8 5/8 wooden plug	165.00	165.00
			Subtotal	8313.06
			-358	2909.57
			Subtotal	5403.49
			SALES TAX	245.14
			ESTIMATED TOTAL	5648.63

AUTHORIZATION Matt Brown TITLE Tool Pusher DATE 1-17-18

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**4/2s/37w Cheyenne KS**

**McFee #1-4**

Job Ticket: 63444

**DST#: 1**

Test Start: 2018.01.10 @ 07:45:00

## GENERAL INFORMATION:

Formation: **LKC "B"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:27:00  
 Time Test Ended: 20:03:00  
 Interval: **4230.00 ft (KB) To 4310.00 ft (KB) (TVD)**  
 Total Depth: 4310.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Winder  
 Unit No: 83  
 Reference Elevations: 3273.00 ft (KB)  
 3266.00 ft (CF)  
 KB to GR/CF: 7.00 ft

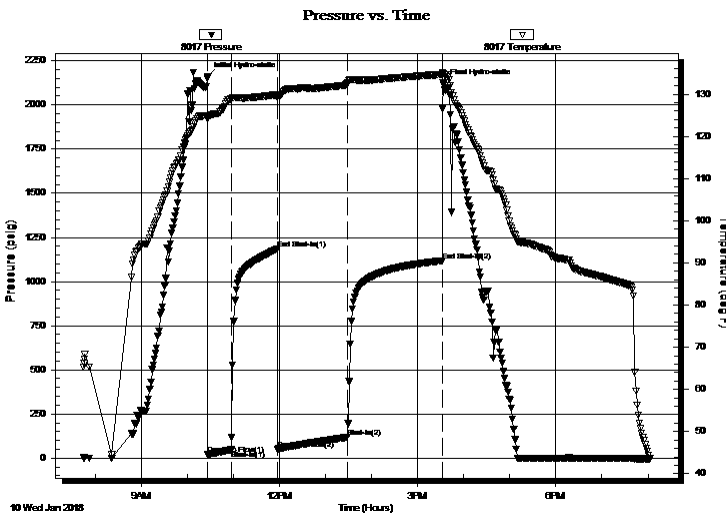
## Serial #: 8017

**Outside**

Press@RunDepth: 119.74 psig @ 4231.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.01.10 End Date: 2018.01.10 Last Calib.: 2018.01.10  
 Start Time: 07:45:05 End Time: 20:03:00 Time On Btm: 2018.01.10 @ 10:26:45  
 Time Off Btm: 2018.01.10 @ 15:33:15

TEST COMMENT: 30 - IF: Blow built to 2 1/2"  
 60 - IS: No blow back  
 90 - FF: Blow built to 4"  
 120 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.84	124.94	Initial Hydro-static
1	20.41	124.15	Open To Flow (1)
31	46.74	128.88	Shut-In(1)
91	1185.74	129.83	End Shut-In(1)
91	51.00	129.21	Open To Flow (2)
182	119.74	132.48	Shut-In(2)
305	1117.52	134.64	End Shut-In(2)
307	2122.95	134.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
116.00	WM w/trace oil 57% <sub>m</sub> , 43% <sub>w</sub>	0.57
87.00	Mud w/oil spots 99% <sub>m</sub> , 1% <sub>o</sub>	0.43

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco, LLC

**4/2s/37w Cheyenne KS**

2020 N. Bramblewood  
Wichita, KS 67206

**McFee #1-4**

Job Ticket: 63444

**DST#: 1**

ATTN: Bryan Bynog

Test Start: 2018.01.10 @ 07:45:00

## 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:

24000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in<sup>3</sup>

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 bbbl
116.00	WM w /trace oil 57% <sub>m</sub> , 43% <sub>w</sub>	0.570
87.00	Mud w /oil spots 99% <sub>m</sub> , 1% <sub>o</sub>	0.428

Total Length: 203.00 ft      Total Volume: 0.998 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

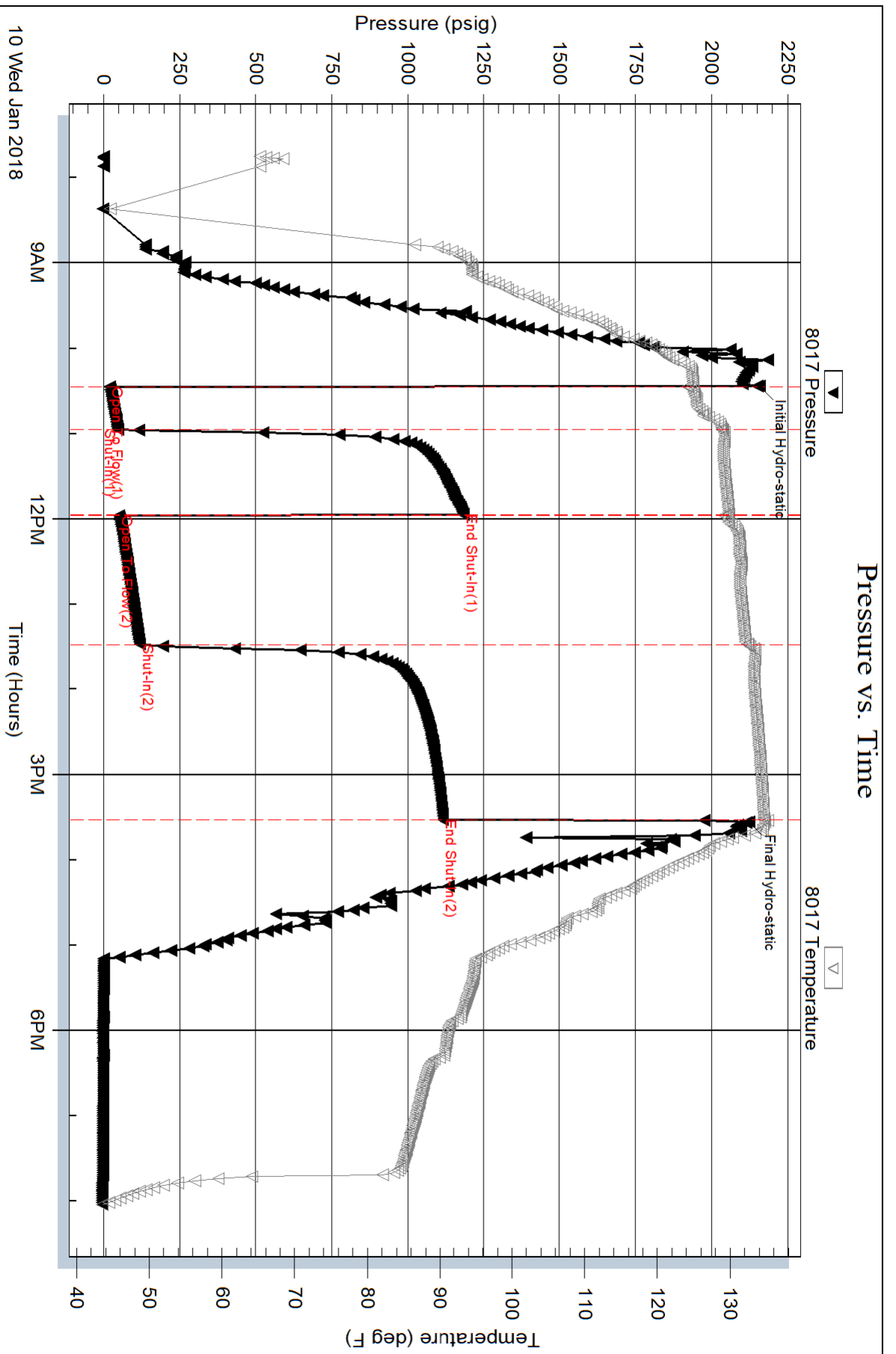
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .365 ohms @ 55.5 deg F

Chlorides = 24,000 ppm



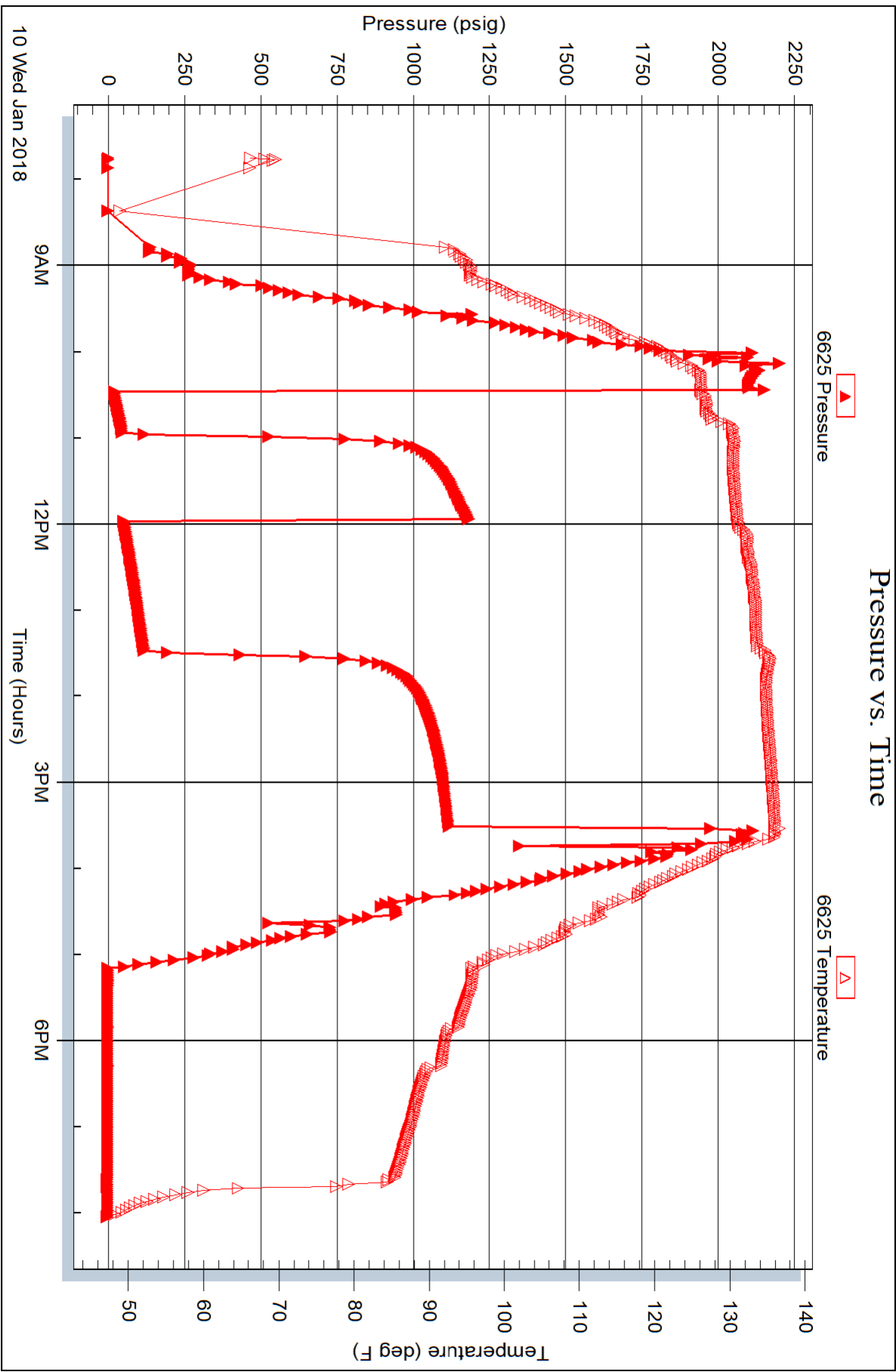
Serial #: 6625

Inside

Berexco, LLC

McFee #1-4

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**4/2s/37w Cheyenne KS**

**McFee #1-4**

Job Ticket: 63445

**DST#: 2**

Test Start: 2018.01.11 @ 22:42:00

## GENERAL INFORMATION:

Formation: **LKC "E"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 04:52:45  
 Tester: James Winder  
 Time Test Ended: 13:57:00  
 Unit No: 83  
 Interval: **4404.00 ft (KB) To 4440.00 ft (KB) (TVD)**  
 Reference Elevations: 3273.00 ft (KB)  
 Total Depth: 4440.00 ft (KB) (TVD)  
 3266.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 7.00 ft

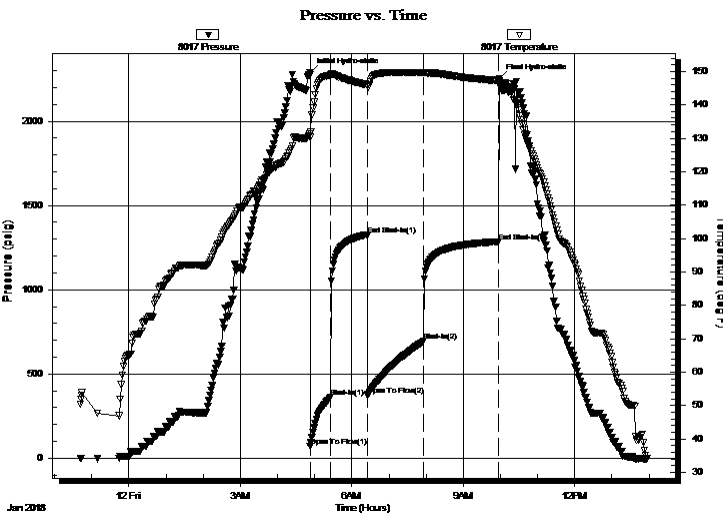
## Serial #: 8017

**Outside**

Press@RunDepth: 694.88 psig @ 4405.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.01.11 End Date: 2018.01.12 Last Calib.: 2018.01.12  
 Start Time: 22:42:05 End Time: 13:57:00 Time On Btm: 2018.01.12 @ 04:52:30  
 Time Off Btm: 2018.01.12 @ 09:58:00

**TEST COMMENT:** 30 - IF: Blow built to BOB (11") at 4 1/2 min. (Diesel in bucket)  
 60 - IS: Blow back built to 1 3/4"  
 90 - FF: Blow built to BOB at 7 min.  
 120 - FS: Blow back built to 1"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2289.80	131.29	Initial Hydro-static
1	71.49	130.30	Open To Flow (1)
33	363.93	148.93	Shut-In(1)
92	1325.89	145.95	End Shut-In(1)
93	373.35	145.59	Open To Flow (2)
184	694.88	149.61	Shut-In(2)
304	1285.07	147.22	End Shut-In(2)
306	2252.10	145.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
835.00	Water w/trace oil 97%w, 3%m	6.96
375.00	SMCW w/oil spots 87%w, 7%m, 4%g	25.26
265.00	SO/MCW 64%w, 26%m, 6%o, 4%g	3.72
45.00	CO 96%o, 4%m	0.63
0.00	GIP = 65'	0.00

\* 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

**4/2s/37w Cheyenne KS**

2020 N. Bramblewood  
Wichita, KS 67206

**McFee #1-4**

Job Ticket: 63445

**DST#: 2**

ATTN: Bryan Bynog

Test Start: 2018.01.11 @ 22:42:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

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
835.00	Water w/trace oil 97%w, 3%m	6.958
375.00	SMCW w/oil spots 87%w, 7%m, 4%g, 2%o	5.260
265.00	SO/MCW 64%w, 26%m, 6%o, 4%g	3.717
45.00	CO 96%o, 4%m	0.631
0.00	GIP = 65'	0.000

Total Length: 1520.00 ft      Total Volume: 16.566 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

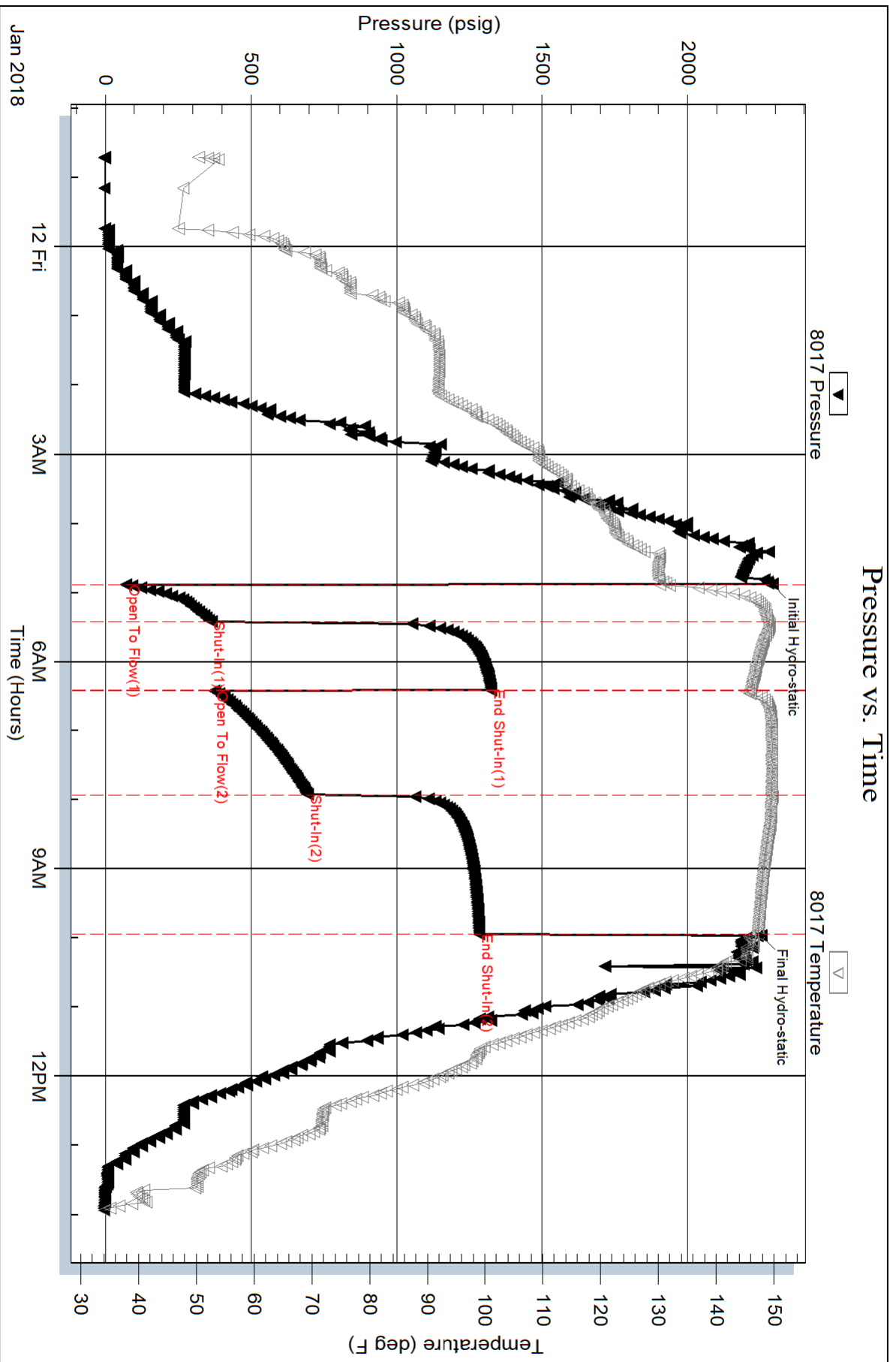
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 33.6 api @ 32 deg F Corrected Gravity = 36.4 api  
RW = .220 ohms @ 49 deg F Chlorides = 50,000 ppm

### Pressure vs. Time





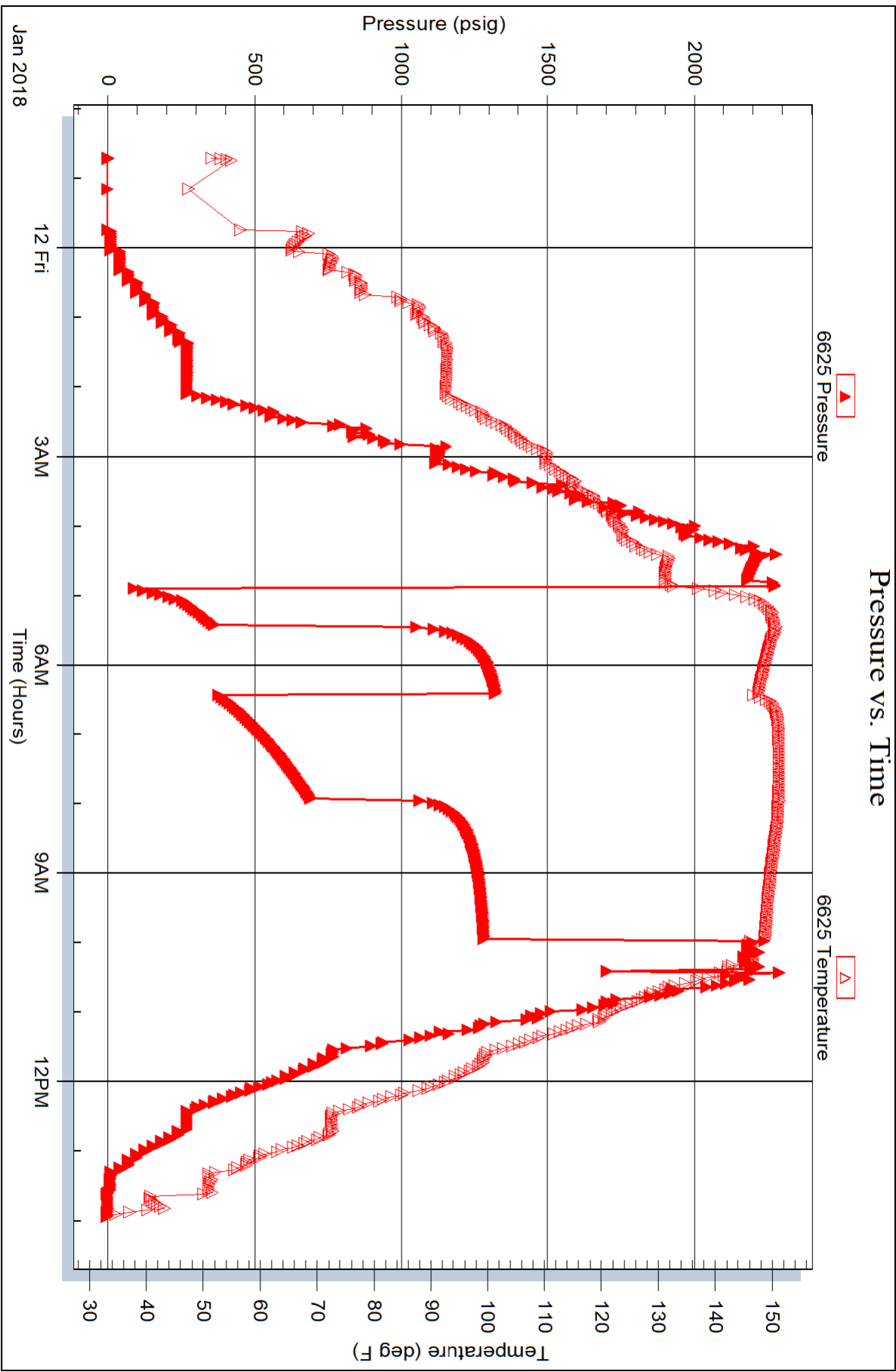
Serial #: 6625

Inside

Berexco, LLC

McFee #1-4

DST Test Number: 2





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**4/2s/37w Cheyenne KS**

**McFee #1-4**

Job Ticket: 63446

**DST#: 3**

Test Start: 2018.01.14 @ 16:20:00

## GENERAL INFORMATION:

Formation: **Ft. Scott - Upper Ch**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:46:15

Time Test Ended: 05:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: **4640.00 ft (KB) To 4780.00 ft (KB) (TVD)**

Reference Elevations: 3273.00 ft (KB)

Total Depth: 4780.00 ft (KB) (TVD)

3266.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8017 Outside**

Press@RunDepth: 230.63 psig @ 4641.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.14

End Date:

2018.01.15

Last Calib.:

2018.01.15

Start Time: 16:20:05

End Time:

05:08:00

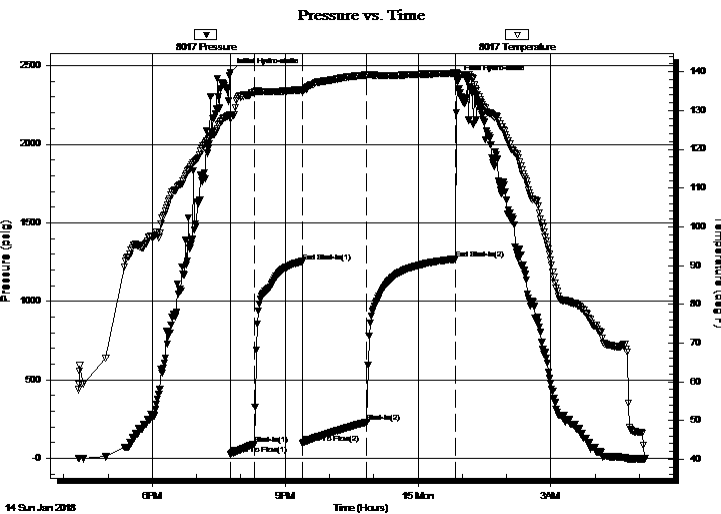
Time On Btm:

2018.01.14 @ 19:46:00

Time Off Btm:

2018.01.15 @ 00:53:30

TEST COMMENT: 30 - IF: Blow built to 5 1/2" (Diesel in bucket)  
 60 - IS: No blow back  
 90 - FF: Blow started at 14 min., built to 7"  
 120 - FSI: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2456.80	128.81	Initial Hydro-static
1	26.69	127.87	Open To Flow (1)
33	91.25	134.64	Shut-In(1)
97	1253.89	135.37	End Shut-In(1)
98	94.70	134.76	Open To Flow (2)
185	230.63	139.19	Shut-In(2)
305	1268.77	139.65	End Shut-In(2)
308	2409.15	139.36	Final Hydro-static

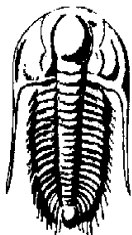
## Recovery

Length (ft)	Description	Volume (bbl)
230.00	WCM 63% <sub>m</sub> , 37% <sub>w</sub>	1.13
190.00	Mud 100%	0.93

## Gas Rates

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

\* Recovery from multiple tests



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

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

**4/2s/37w Cheyenne KS**

**McFee #1-4**

Job Ticket: 63446

**DST#: 3**

Test Start: 2018.01.14 @ 16:20:00

### GENERAL INFORMATION:

Formation: **Ft. Scott - Upper Ch**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:46:15

Time Test Ended: 05:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 4640.00 ft (KB) To 4780.00 ft (KB) (TVD)**

Total Depth: 4780.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3273.00 ft (KB)

3266.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 6625**      **Inside**

Press@RunDepth: psig @ 4641.00 ft (KB)

Start Date: 2018.01.14

End Date: 2018.01.15

Capacity: 8000.00 psig

Last Calib.: 2018.01.15

Start Time: 16:20:05

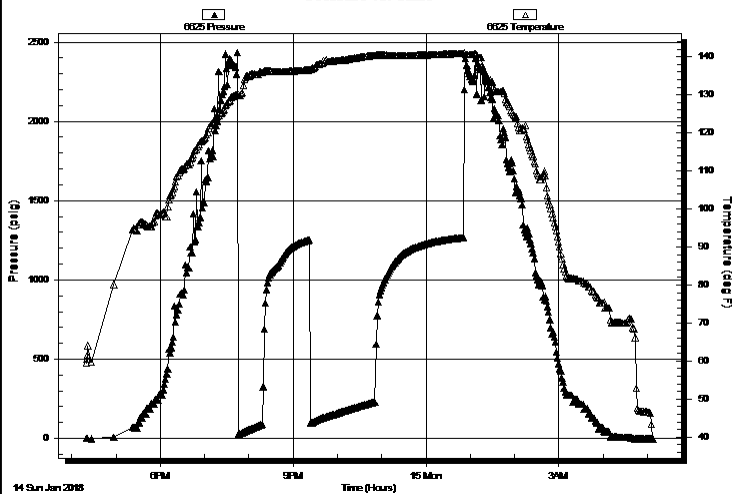
End Time: 05:08:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 5 1/2" (Diesel in bucket)  
60 - ISI: No blow back  
90 - FF: Blow started at 14 min., built to 7"  
120 - FSI: No blow back

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
230.00	WCM 63%m, 37%w	1.13
190.00	Mud 100%	0.93

### 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

**4/2s/37w Cheyenne KS**

2020 N. Bramblewood  
Wichita, KS 67206

**McFee #1-4**

Job Ticket: 63446

**DST#: 3**

ATTN: Bryan Bynog

Test Start: 2018.01.14 @ 16:20:00

## 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:

19000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

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 bbbl
230.00	WCM 63% <sub>m</sub> , 37% <sub>w</sub>	1.131
190.00	Mud 100%	0.934

Total Length: 420.00 ft      Total Volume: 2.065 bbl

Num Fluid Samples: 0

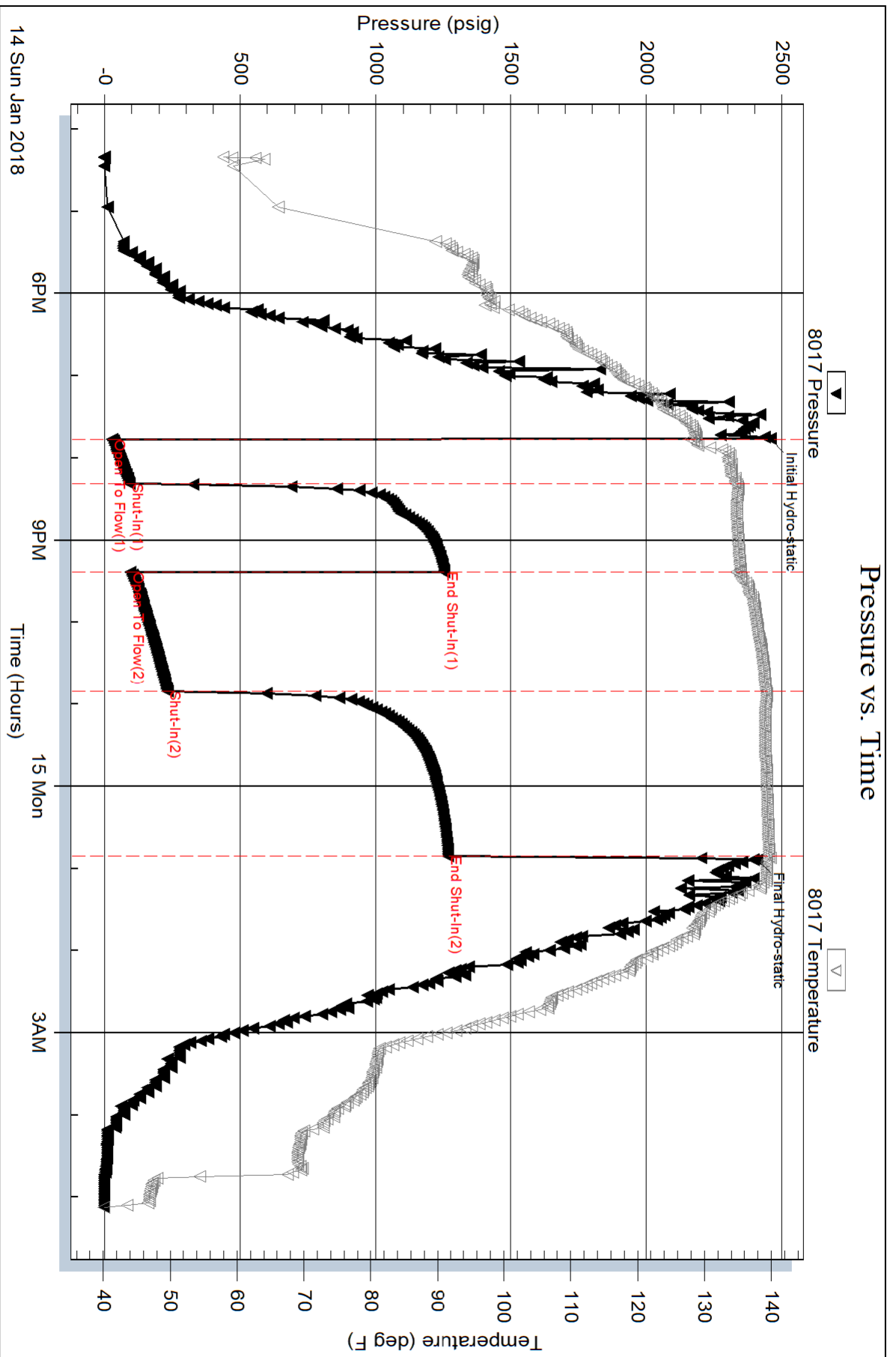
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .425 ohms @ 58 deg F Chlorides = 19,000 ppm



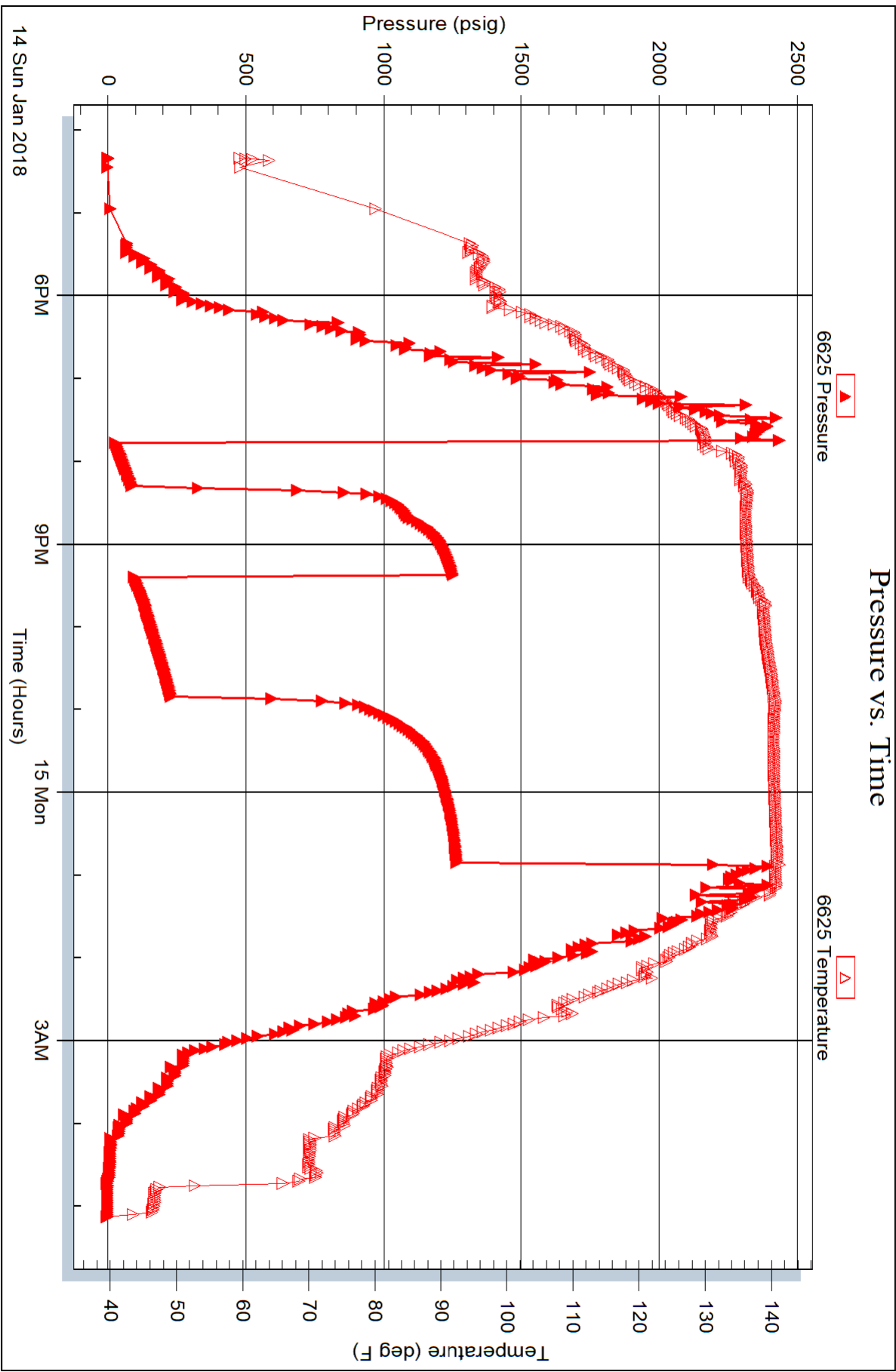
Serial #: 6625

Inside

Berexco, LLC

McFee #1-4

DST Test Number: 3





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco, LLC

**4/2s/37w Cheyenne KS**

2020 N. Bramblewood  
Wichita, KS 67206

**McFee #1-4**

Job Ticket: 63447

**DST#: 4**

ATTN: Bryan Bynog

Test Start: 2018.01.15 @ 22:47:00

## GENERAL INFORMATION:

Formation: **LKC "C - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:52:30

Time Test Ended: 14:48:45

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 83

**Interval: 4306.00 ft (KB) To 4396.00 ft (KB) (TVD)**

Reference Elevations: 3273.00 ft (KB)

Total Depth: 4796.00 ft (KB) (TVD)

3266.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8017 Outside**

Press@RunDepth: 151.84 psig @ 4307.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.15 End Date: 2018.01.16

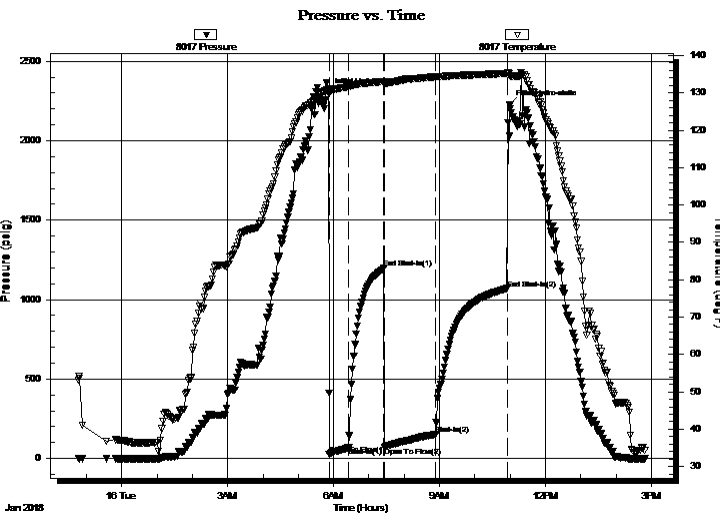
Last Calib.: 2018.01.16

Start Time: 22:47:05 End Time: 14:48:45

Time On Btm: 2018.01.16 @ 05:52:00

Time Off Btm: 2018.01.16 @ 10:59:00

**TEST COMMENT:** 30 - IF: 1" Blow at open, built to 5"  
60 - IS: No blow back  
90 - FF: Blow started at 6 min., built to 3 3/4"  
120 - FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.89	130.99	Initial Hydro-static
1	27.85	130.22	Open To Flow (1)
34	67.29	131.66	Shut-In(1)
94	1197.37	133.01	End Shut-In(1)
94	70.66	132.60	Open To Flow (2)
182	151.84	134.24	Shut-In(2)
303	1068.93	135.14	End Shut-In(2)
307	2227.52	134.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
235.00	Mud 100%	1.16

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**4/2s/37w Cheyenne KS**

**McFee #1-4**

Job Ticket: 63447

**DST#: 4**

Test Start: 2018.01.15 @ 22:47:00

## GENERAL INFORMATION:

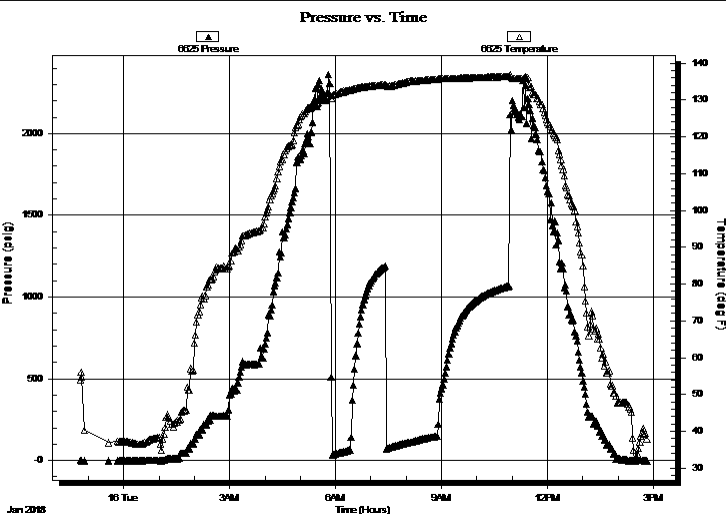
Formation: **LKC "C - D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:52:30  
 Time Test Ended: 14:48:45  
 Interval: **4306.00 ft (KB) To 4396.00 ft (KB) (TVD)**  
 Total Depth: 4796.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: James Winder  
 Unit No: 83  
 Reference Elevations: 3273.00 ft (KB)  
 3266.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 6625

Inside

Press@RunDepth: psig @ 4307.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.01.15 End Date: 2018.01.16 Last Calib.: 2018.01.16  
 Start Time: 22:47:05 End Time: 14:49:15 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30 - IF: 1" Blow at open, built to 5"  
 60 - IS: No blow back  
 90 - FF: Blow started at 6 min., built to 3 3/4"  
 120 - FS: No blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
235.00	Mud 100%	1.16

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Berexco, LLC

2020 N. Bramblewood  
Wichita, KS 67206

ATTN: Bryan Bynog

**4/2s/37w Cheyenne KS**

**McFee #1-4**

Job Ticket: 63447

**DST#: 4**

Test Start: 2018.01.15 @ 22:47:00

### GENERAL INFORMATION:

Formation: **LKC "C - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:52:30

Time Test Ended: 14:48:45

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 83

**Interval: 4306.00 ft (KB) To 4396.00 ft (KB) (TVD)**

Total Depth: 4796.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3273.00 ft (KB)

3266.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8652 Below (Straddle)**

Press@RunDepth: psig @ 4397.00 ft (KB)

Start Date: 2018.01.15 End Date: 2018.01.16

Start Time: 22:47:05 End Time: 14:48:00

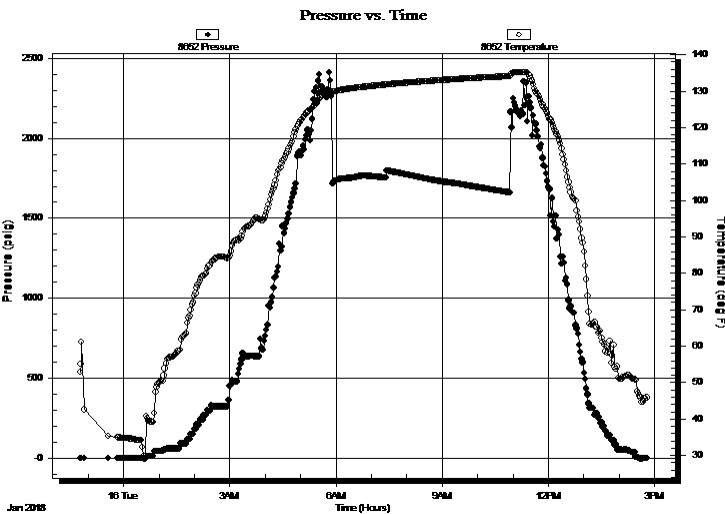
Capacity: 8000.00 psig

Last Calib.: 2018.01.16

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 - IF: 1" Blow at open, built to 5"  
60 - IS: No blow back  
90 - FF: Blow started at 6 min., built to 3 3/4"  
120 - FS: No blow back



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
235.00	Mud 100%	1.16

\* 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

**4/2s/37w Cheyenne KS**

2020 N. Bramblewood  
Wichita, KS 67206

**McFee #1-4**

Job Ticket: 63447

**DST#: 4**

ATTN: Bryan Bynog

Test Start: 2018.01.15 @ 22:47:00

## 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

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
235.00	Mud 100%	1.156

Total Length: 235.00 ft      Total Volume: 1.156 bbl

Num Fluid Samples: 0

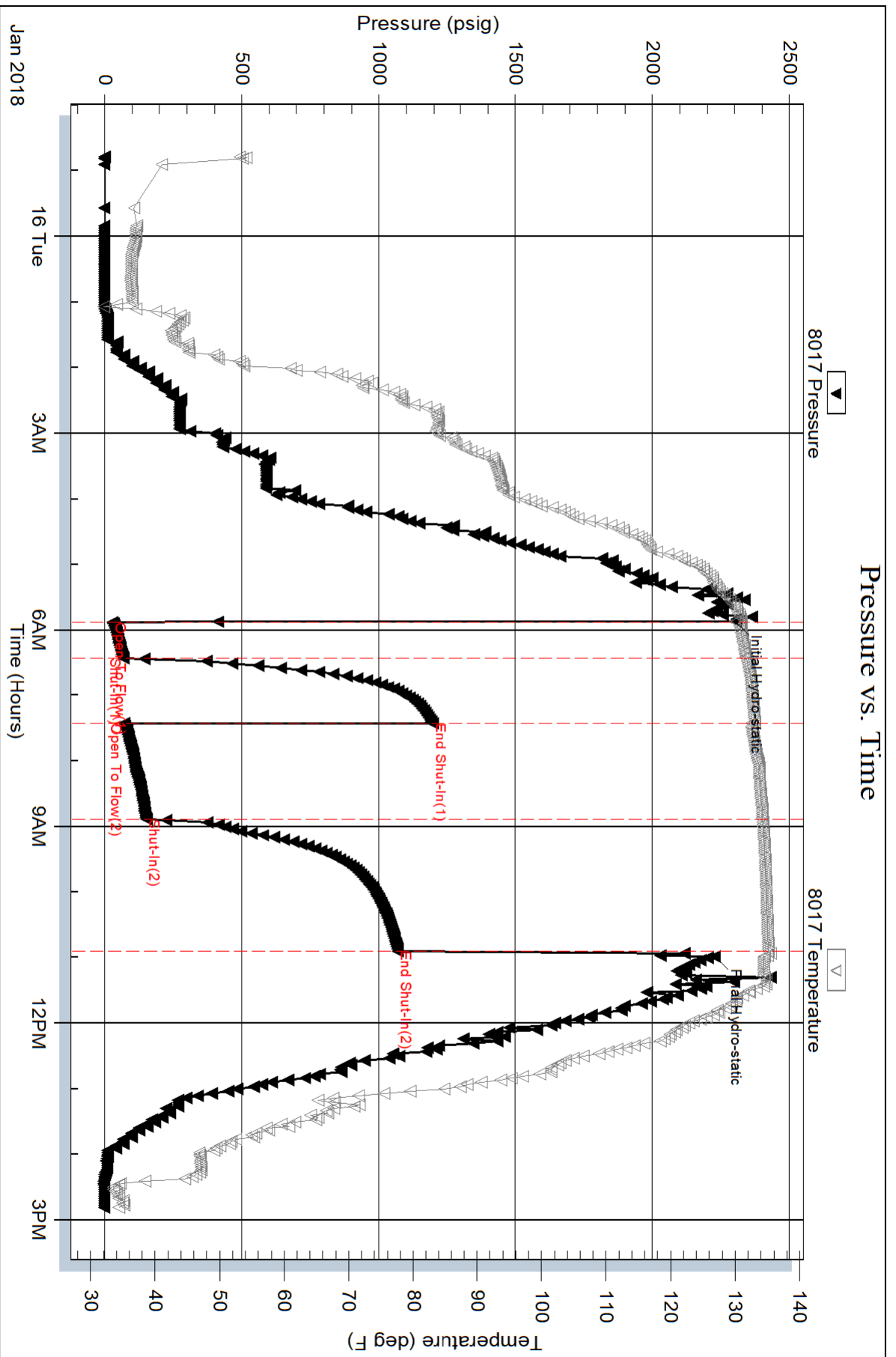
Num Gas Bombs: 0

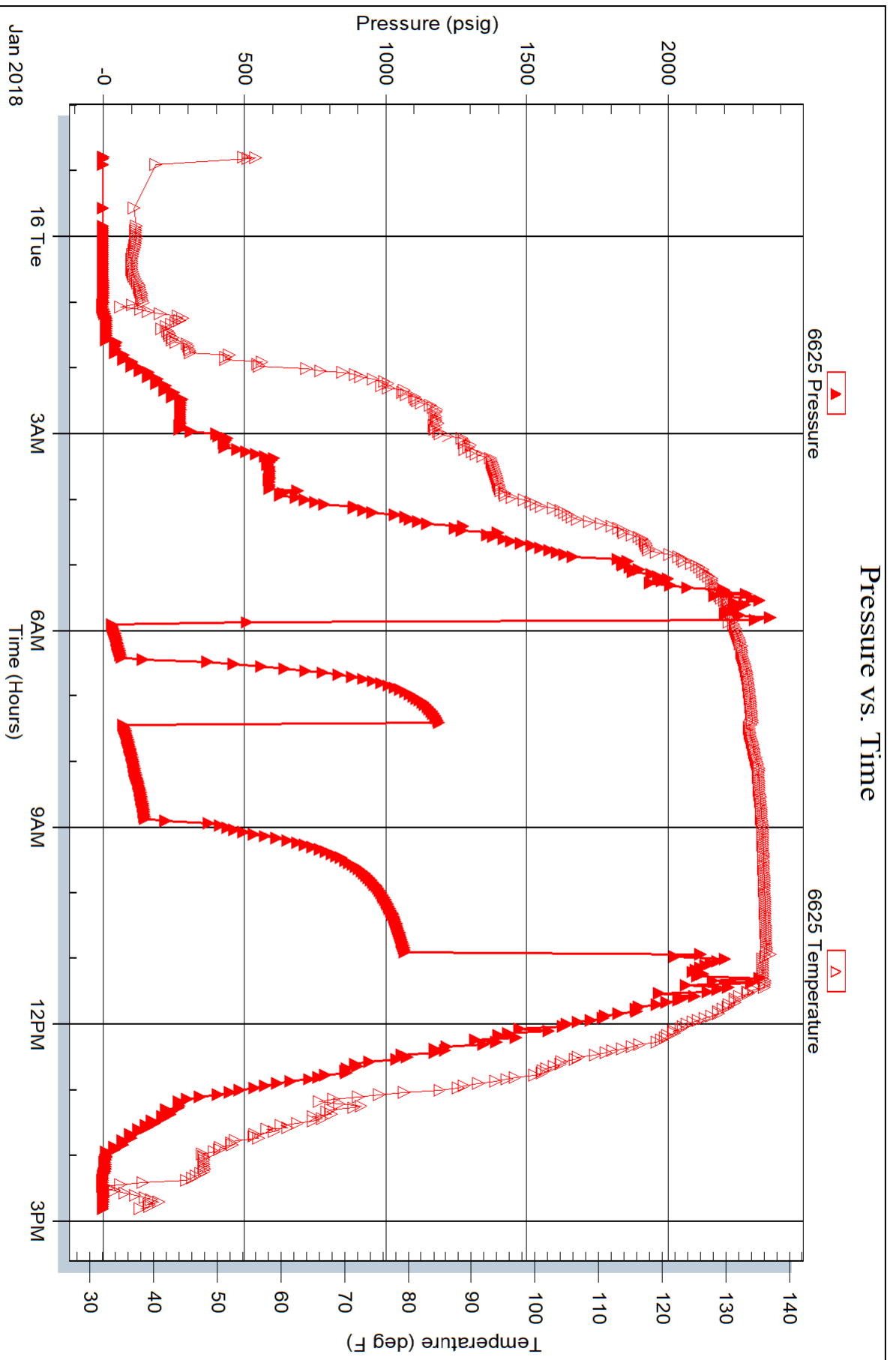
Serial #:

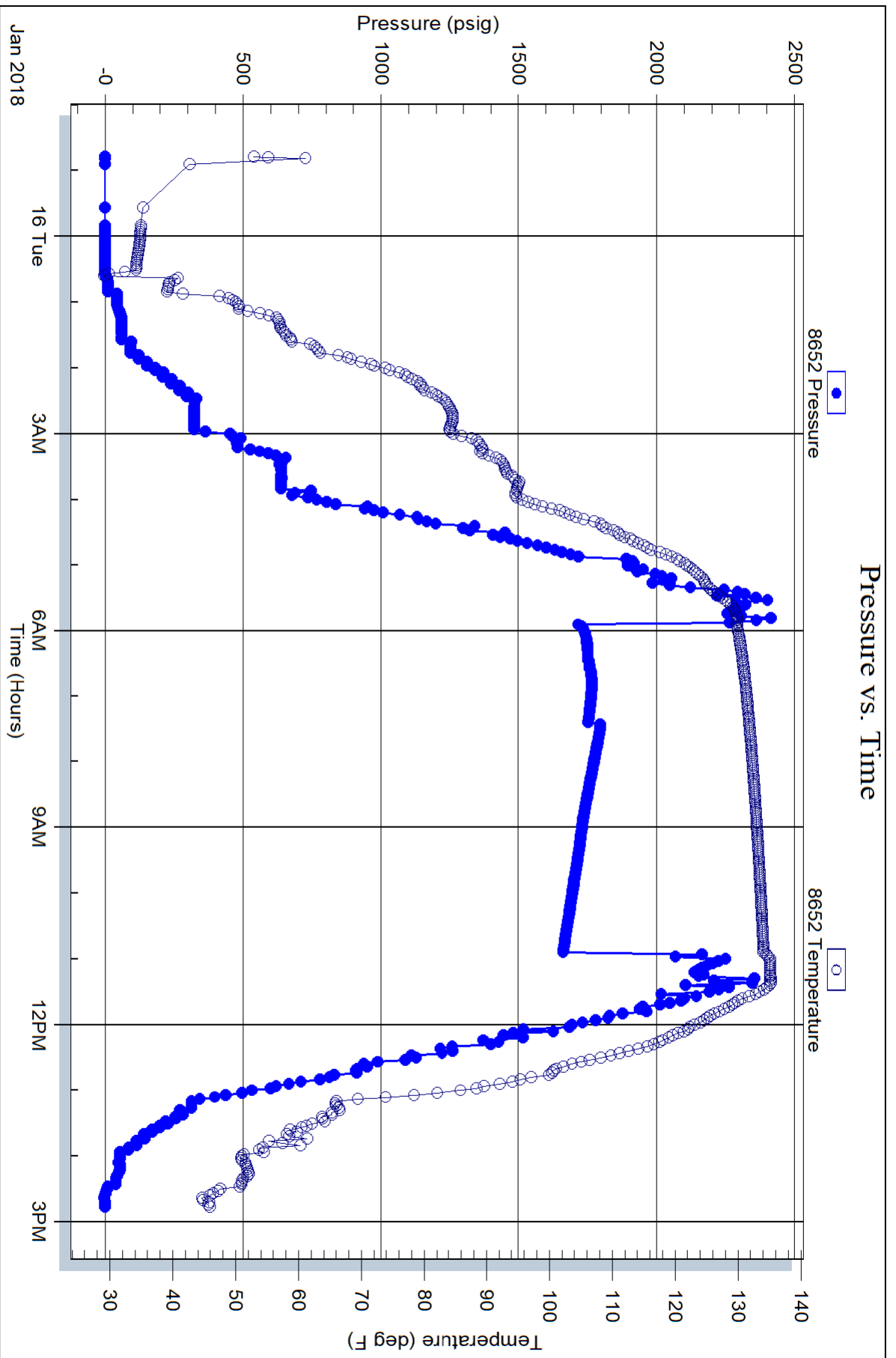
Laboratory Name:

Laboratory Location:

Recovery Comments:







# LITHOLOGY STRIP LOG

## WellSight Systems

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

Measured Depth Log

Well Name: McFee #1-4

Well Id:

Location: W2E2 NW Section 4 2S-37W Cheyenne County, Kansas

License Number: 15-023-21470

Region: Midcontinent

Spud Date: 1-3-2018

Drilling Completed: 1-16-2018

Surface Coordinates: 1320' FNL & 1650' FWL

Bottom Hole

Coordinates:

Ground Elevation (ft): 3265

K.B. Elevation (ft): 3273

Logged Interval (ft): 3400

To: 4800

Total Depth (ft): 4800

Formation: LKC, Pawnee, Fort Scott & Cherokee

Type of Drilling Fluid: WBM

Printed by WellSight Log Viewer 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

### Survey's


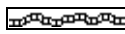
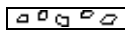


### DSTs






DST#1 4230-4310', DST#2 4404-4440', DST#3 4640-4780', DST#4 4306-4396'



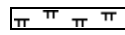
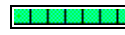
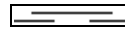
### Comments

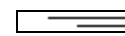
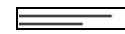



DRY HOLE

### ROCK TYPES

 Anhy  
 Bent  
 Brec  
 Cht  
 Clyst

 Coal  
 Congl  
 Dol  
 Gyp  
 Igne

 Lmst  
 Meta  
 Mrlst  
 Salt  
 Shale

 Shcol  
 Shgy  
 Sltst  
 Ss  
 Till

### ACCESSORIES

#### MINERAL

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

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

#### FOSSIL

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

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

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Slststrg
- Ssstrg

#### TEXTURE

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

### OTHER SYMBOLS

#### POROSITY

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

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

#### OIL SHOW

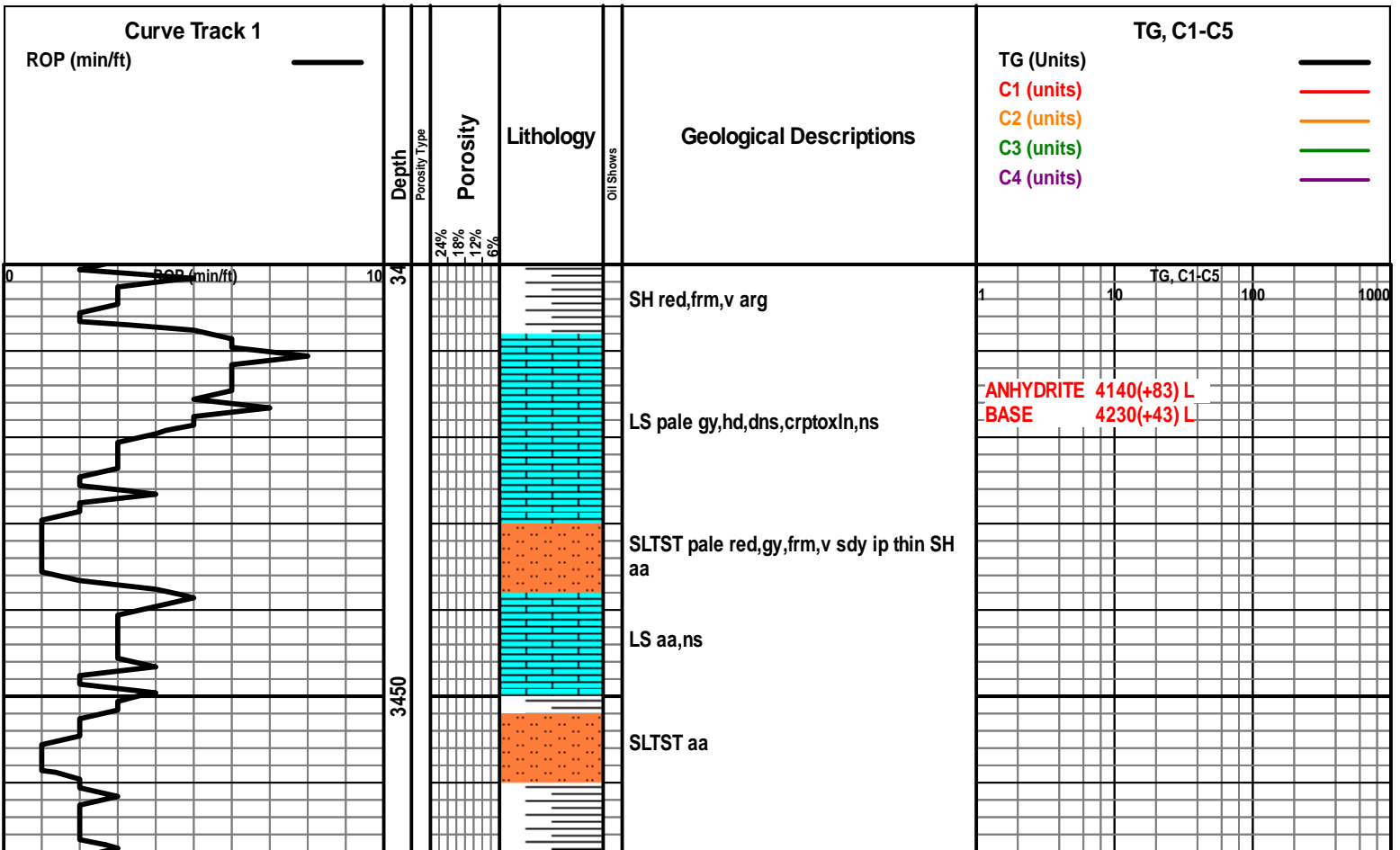
- Even
- Spotted
- Ques
- Dead

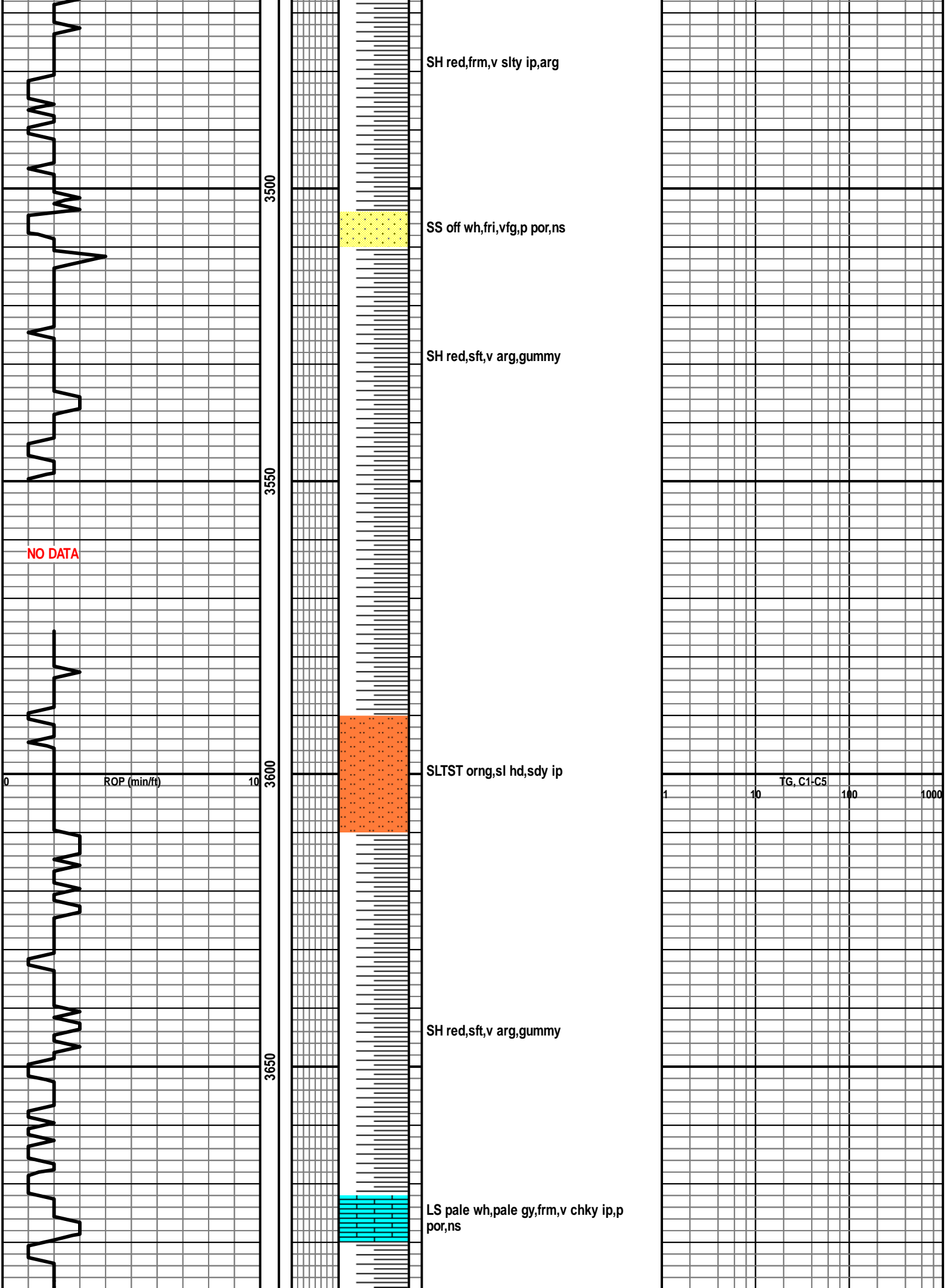
#### INTERVAL

- Dst
- Dst

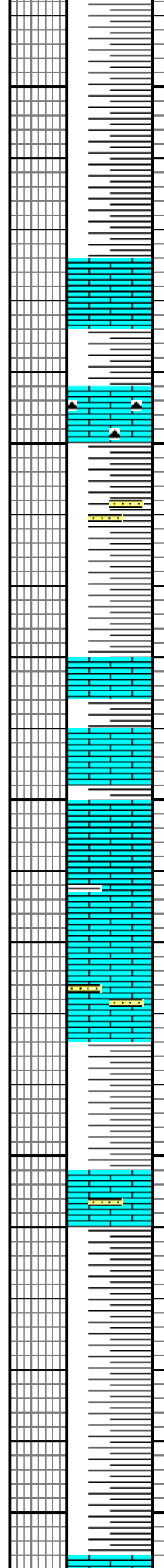
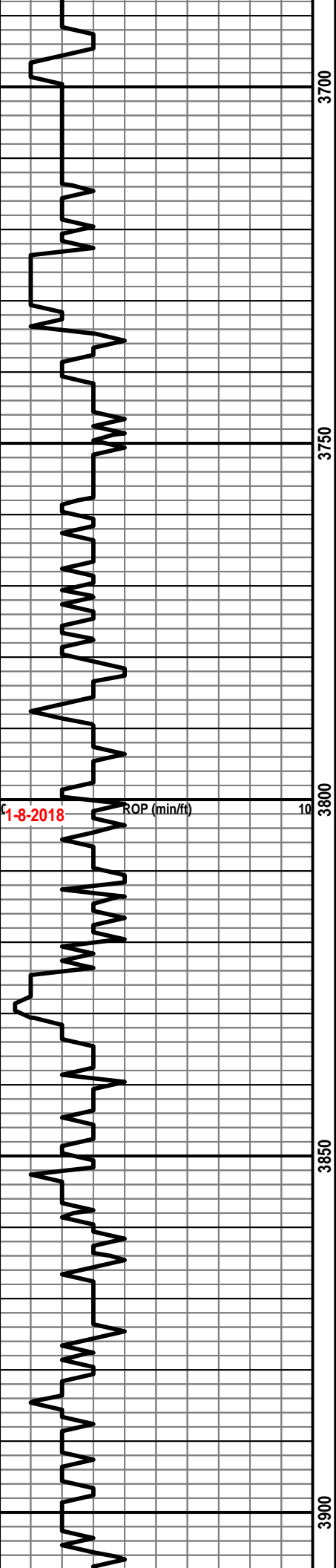
#### EVENT

- Rft
- Sidewall









SH aa sft,v arg

LS off wh,frm,foss,chky ip,p por,ns

SH red,sft,arg

LS wh,pale gy,frm,v chky ip,v abnt Cht  
orng

SH red,gy,sft,v arg some sdy ip

LS pale gy,hd,blky,vf microIn,ns with  
thin SH aa

LS wh,crm,frm,chky ip,p por,ns with thin  
SH aa

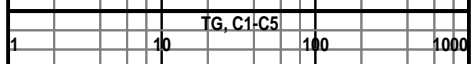
LS wh,crm,frm,v sdy ip,p por,ns

SH red,gn,sft,v arg

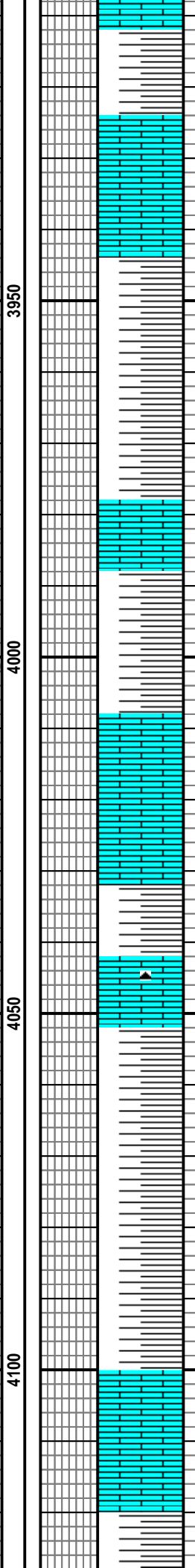
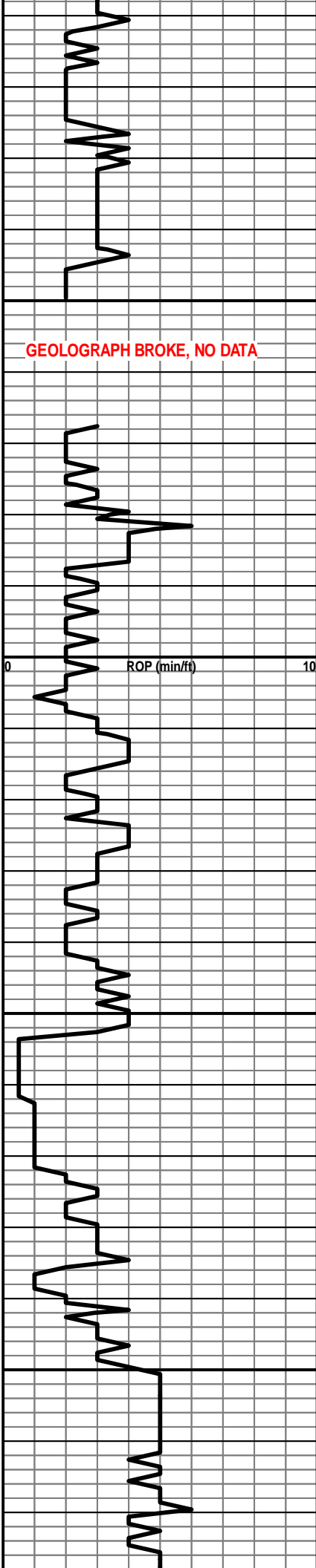
LS crm,frm,v sdy,vfg,p por,ns

SH red,v sft,v arg with thin LS pale  
gy,hd,blky

FORAKER  
3780(-507) S  
3776(-503) L



MUD DATA 3855'  
WT 8.9 VIS 51 FL 7.6  
PH 11.0 CK 2 CL 800  
LCM .5



LS pale gy,frm,v foss,p intrgr por,ns

SH red,sft,v arg

LS crm,hd,blky,crptoxln, some chky ip,ns

SH aa

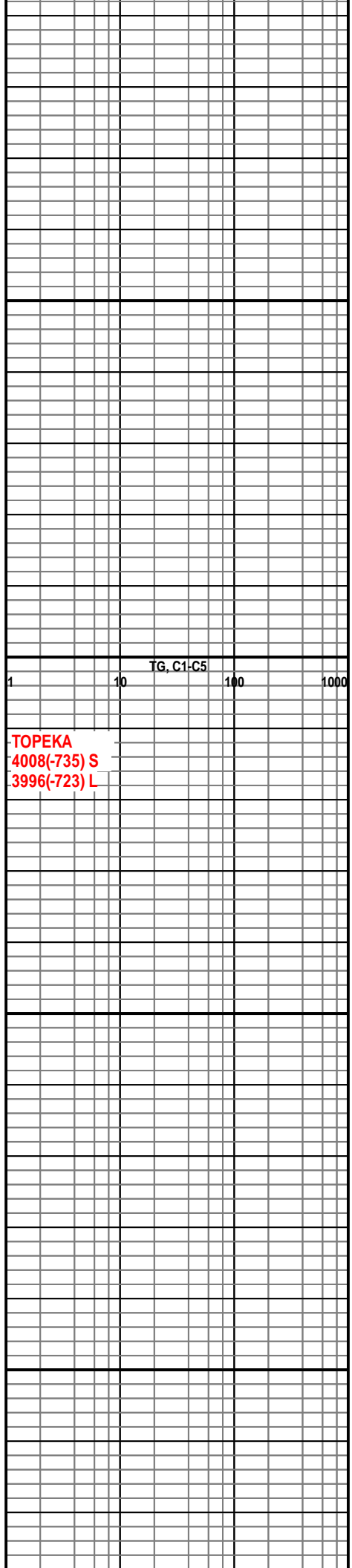
LS wh,crm some buff,v hd,dns,blky,crptoxln-vfny xln,chky ip,p por,ns

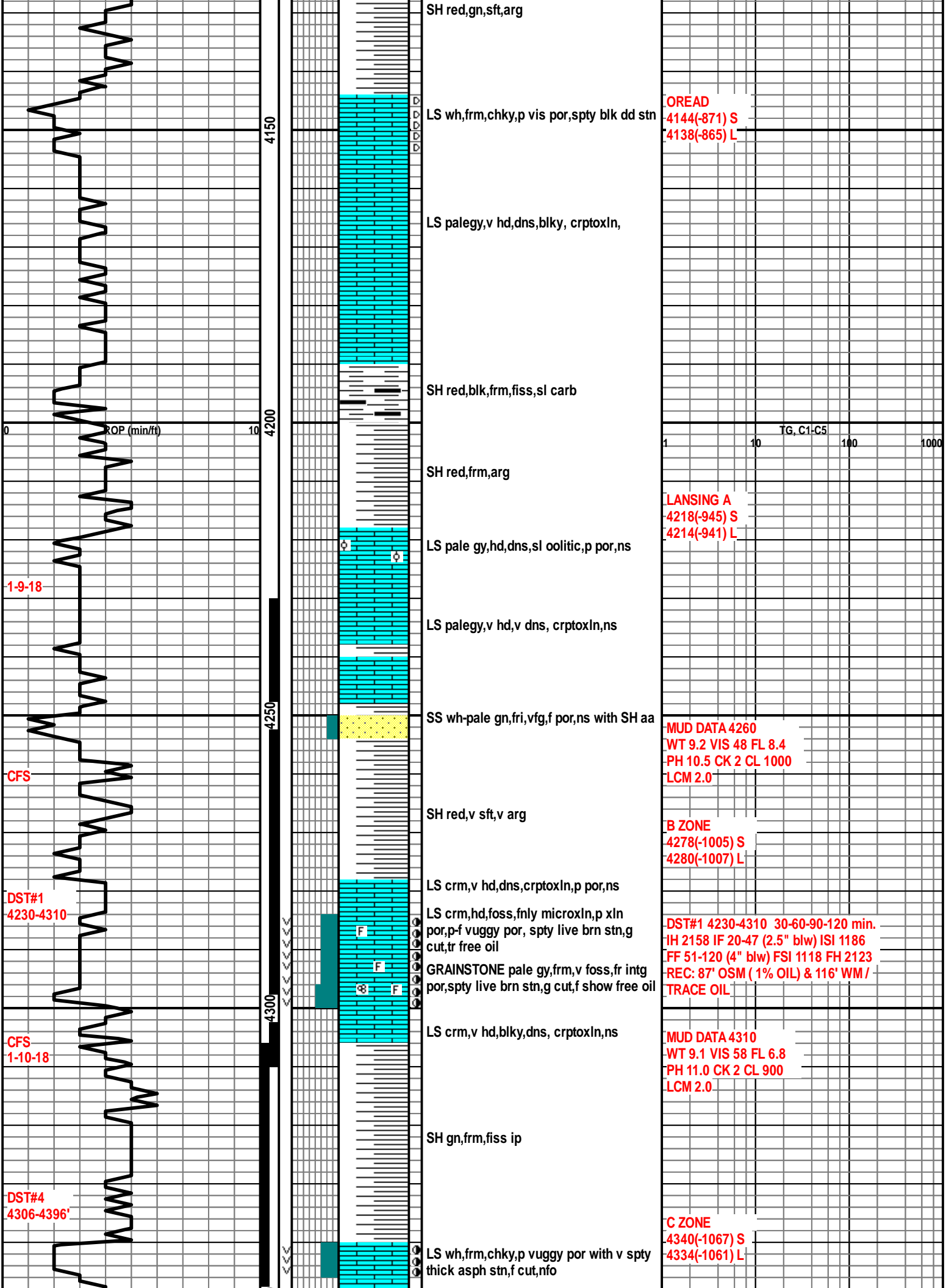
SH aa

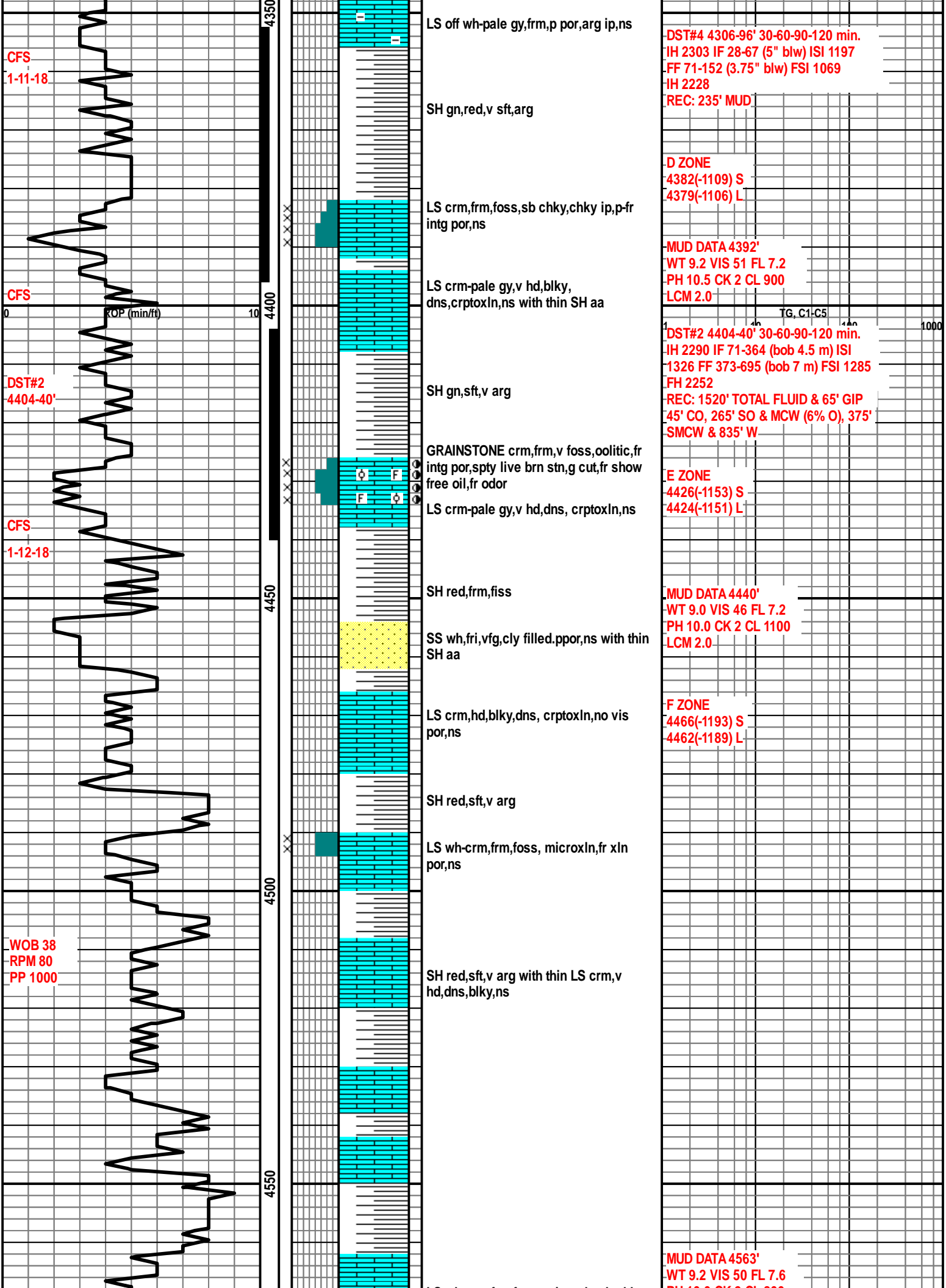
LS aa bcmg Cherty orng

SH red,v sft,v arg

LS crm,buff,v hd,dns,blky,chky ip,tr Cht orng







CFS  
1-11-18

CFS

DST#2  
4404-40'

CFS  
1-12-18

WOB 38  
RPM 80  
PP 1000

LS off wh-pale gy, frm, p por, arg ip, ns

SH gn, red, v sft, arg

LS crm, frm, foss, sb chky, chky ip, p-fr intg por, ns

LS crm-pale gy, v hd, blk, dns, crptoxln, ns with thin SH aa

SH gn, sft, v arg

GRAINSTONE crm, frm, v foss, oolitic, fr intg por, spty live brn stn, g cut, fr show free oil, fr odor

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

SH red, frm, fiss

SS wh, fri, vfg, cly filled, ppor, ns with thin SH aa

LS crm, hd, blk, dns, crptoxln, no vis por, ns

SH red, sft, v arg

LS wh-crm, frm, foss, microxln, fr xln por, ns

SH red, sft, v arg with thin LS crm, v hd, dns, blk, ns

DST#4 4306-96' 30-60-90-120 min.  
IH 2303 IF 28-67 (5" blw) ISI 1197  
FF 71-152 (3.75" blw) FSI 1069  
IH 2228  
REC: 235' MUD

D ZONE  
4382(-1109) S  
4379(-1106) L

MUD DATA 4392'  
WT 9.2 VIS 51 FL 7.2  
PH 10.5 CK 2 CL 900  
LCM 2.0

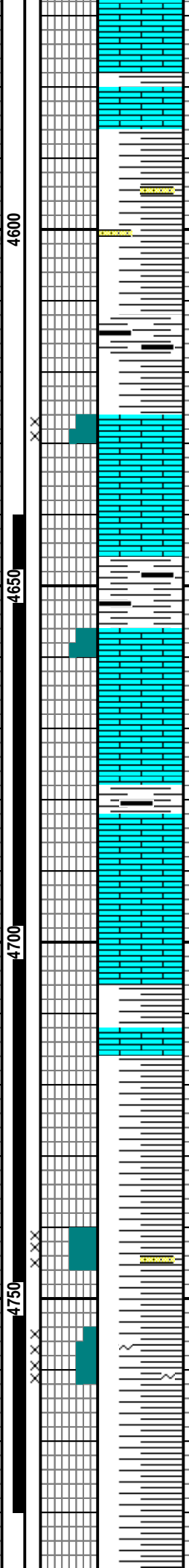
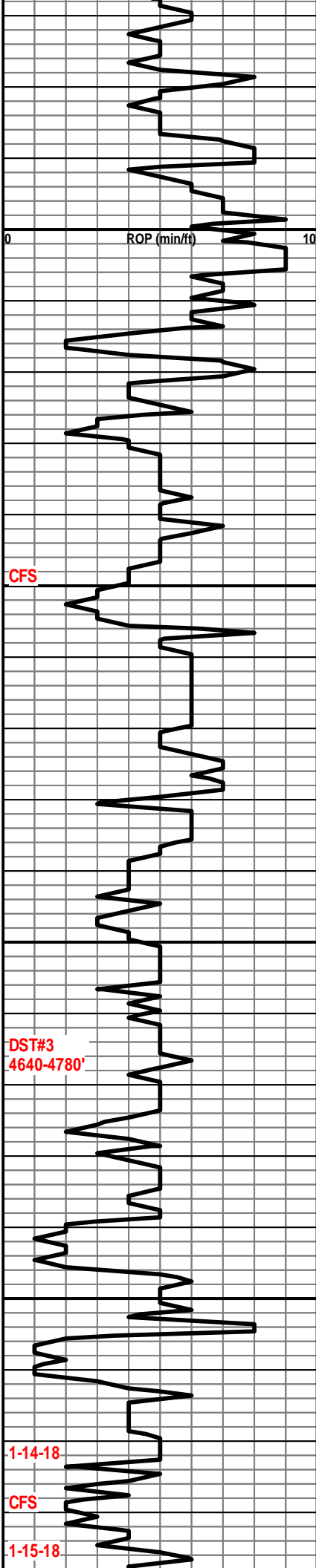
DST#2 4404-40' 30-60-90-120 min.  
IH 2290 IF 71-364 (bob 4.5 m) ISI 1326 FF 373-695 (bob 7 m) FSI 1285  
FH 2252  
REC: 1520' TOTAL FLUID & 65' GIP  
45' CO, 265' SO & MCW (6% O), 375' SMCW & 835' W

E ZONE  
4426(-1153) S  
4424(-1151) L

MUD DATA 4440'  
WT 9.0 VIS 46 FL 7.2  
PH 10.0 CK 2 CL 1100  
LCM 2.0

F ZONE  
4466(-1193) S  
4462(-1189) L

MUD DATA 4563'  
WT 9.2 VIS 50 FL 7.6  
PH 10.2 CK 2 CL 900



LS wh,crm,frm,foss, microIn-sb chky,p por,ns with thin SH aa

SH gn,frm,fiss,some v arg, sdy ip

SH blk,gn,frm,fiss,carb with SH aa

LS wh,crm,frm,v foss,sb chky-chky ip,p-fr intg por,ns

LS crm-pale gy,v hd,dns, crptoxIn,ns

Sh aa gn,blk,frm,fiss,carb

LS wh,frm,foss,microIn,p por,ns

LS crm-pale gy,v hd,dns, crptoxIn,ns

SH blk,frm,fiss,carb

LS aa dns,chky ip,p vis por,ns

SH gn,red,sft,v arg with thin LS aa v hd,dns

LS wh-crm,frm,v foss,p-fr intg por,sdy ip,ns

SH aa

SS trnsl,frm-hd,vfg,sileous cmt,sl glau,p vis por,ns

SH red,gn,yell,marn,frm, fiss

PH 10.0 CK 2 CL 800  
LCM 2.0

TG, C1-C5

PAWNEE  
4626(-1353) S  
4616(-1343) L

FT SCOTT  
4656(-1383) S  
4646(-1373) L

CHEROKEE  
4678(-1405) S  
4672(-1399) L

DST#3 4640-4780' 30-60-90-120 min.  
IH 2457 IF 27-91 (5.5" blw) ISI 1254  
FF 95-231 (7" blw) FSI 1269 FH 2409  
REC: 190' MUD & 230' WCM

MUD DATA 4780'  
WT 9.1 VIS 63 FL 8.0  
PH 10.5 CK 2 CL 900

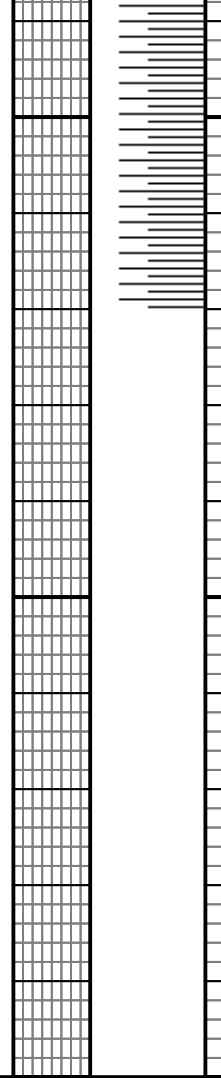
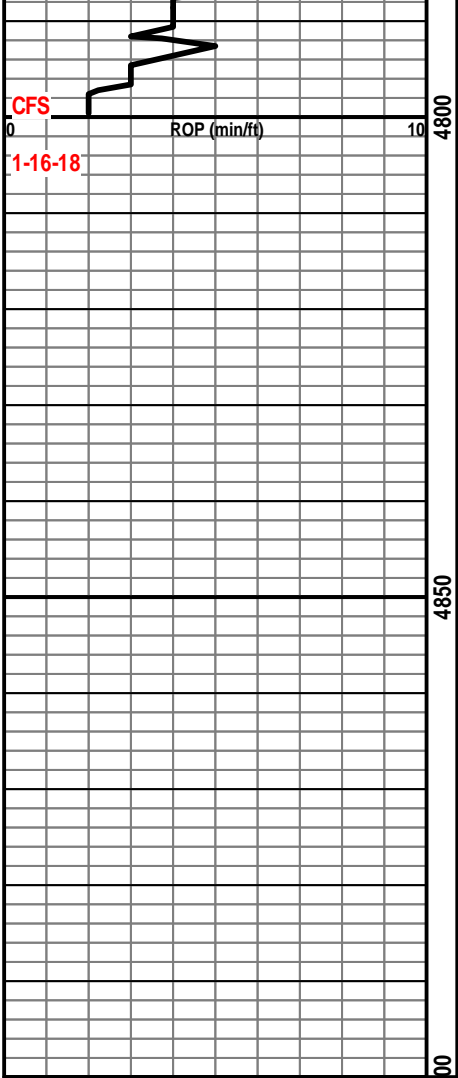
CFS

DST#3  
4640-4780'

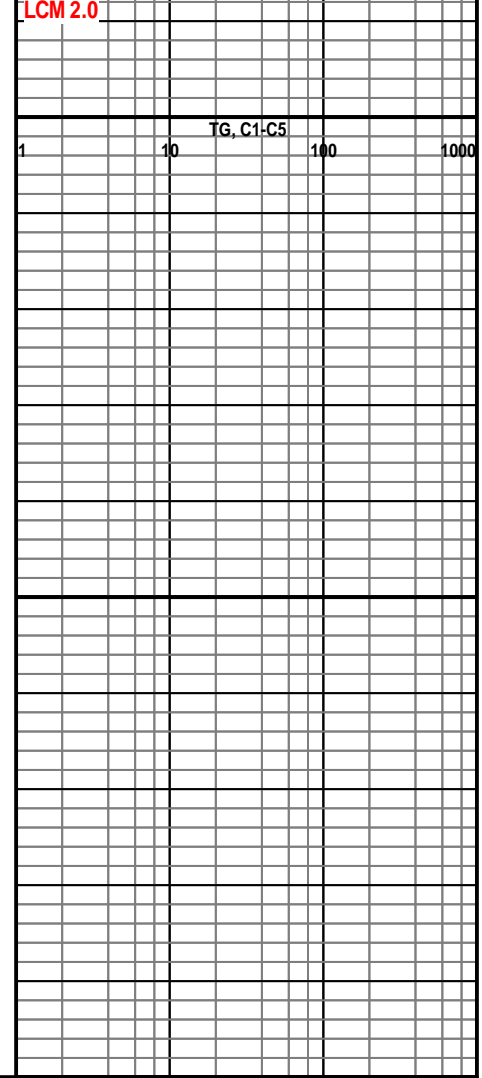
1-14-18

CFS

1-15-18



RTD 4800'  
LTD 4796'



# STATE OF KANSAS

CORPORATION COMMISSION  
CONSERVATION DIVISION  
266 N. MAIN ST., STE. 220  
WICHITA, KS 67202-1513



PHONE: 316-337-6200  
FAX: 316-337-6211  
<http://kcc.ks.gov/>

GOVERNOR JEFF COLYER, M.D.

SHARI FEIST ALBRECHT, CHAIR | JAY SCOTT EMLER, COMMISSIONER | DWIGHT D. KEEN, COMMISSIONER

June 13, 2018

Rodney Reynolds  
BEREXCO LLC  
2020 N. BRAMBLEWOOD  
WICHITA, KS 67206-1094

Re: ACO-1  
API 15-023-21470-00-00  
MCFEE 1-4  
NW/4 Sec.04-02S-37W  
Cheyenne County, Kansas

Dear Rodney Reynolds:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 1/3/2018 and the ACO-1 was received on June 13, 2018 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department