

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	LOOP 1-5
Doc ID	1412879

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	LOOP 1-5
Doc ID	1412879

Tops

Name	Top	Datum
Anhydrite (Top)	3190	79
Anhydrite (Base)	3224	45
Foraker	3776	-507
Topeka	3987	-718
Oread	4138	-869
LKC A	4215	-946
LKC B	4276	-1007
LKC C	4334	-1065
LKC D	4375	-1106
LKC E	4423	-1154
LKC F	4464	-1195
Pawnee	4580	-1311
Ft. Scott	4621	-1352
Cherokee	4698	-1429
LTD	4800	-1531
RTD	4800	-1531



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

5-2S.-37W Cheyenne, Co.

Loop #1-5

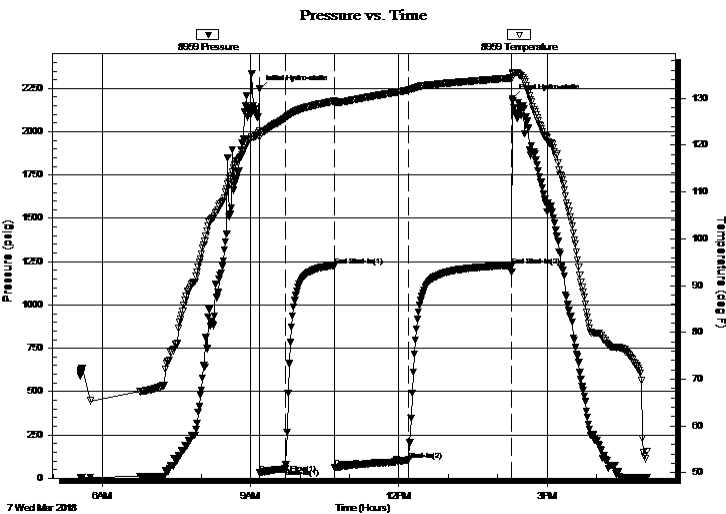
Job Ticket: 63158 **DST#: 1**
 Test Start: 2018.03.07 @ 05:33:00

GENERAL INFORMATION:

Formation: **Lansing A & B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:10:50
 Time Test Ended: 17:01:40
 Interval: **4170.00 ft (KB) To 4322.00 ft (KB) (TVD)**
 Total Depth: 4322.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: 3269.00 ft (KB)
 3260.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8959 Inside
 Press@RunDepth: 104.02 psig @ 4173.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.07 End Date: 2018.03.07 Last Calib.: 2018.03.07
 Start Time: 05:33:01 End Time: 17:01:40 Time On Btm: 2018.03.07 @ 09:10:40
 Time Off Btm: 2018.03.07 @ 14:18:19

TEST COMMENT: 30-IF-S.blow built to 2 1/4"
 60-ISI-No blow
 90-FF-Weak S.blow @ 7 1/2 mins built to 2 1/4"
 120-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2245.06	123.07	Initial Hydro-static
1	30.36	121.85	Open To Flow (1)
32	53.77	125.76	Shut-In(1)
91	1228.10	129.40	End Shut-In(1)
91	61.65	129.09	Open To Flow (2)
182	104.02	131.75	Shut-In(2)
307	1228.40	134.35	End Shut-In(2)
308	2192.88	135.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
175.00	GOCM 5%G, 12%O, 83%M	0.86
1.00	CO 100%O	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

5-2S.-37W Cheyenne, Co.

2020 N Bramblewood
Wichita, Ks 67206

Loop #1-5

Job Ticket: 63158

DST#: 1

ATTN: Bryan Bynog

Test Start: 2018.03.07 @ 05:33:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 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 bbbl
175.00	GOCM 5%G, 12%O, 83%M	0.861
1.00	CO 100%O	0.005

Total Length: 176.00 ft Total Volume: 0.866 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Not enough oil to catch a gravity

Serial #: 8959

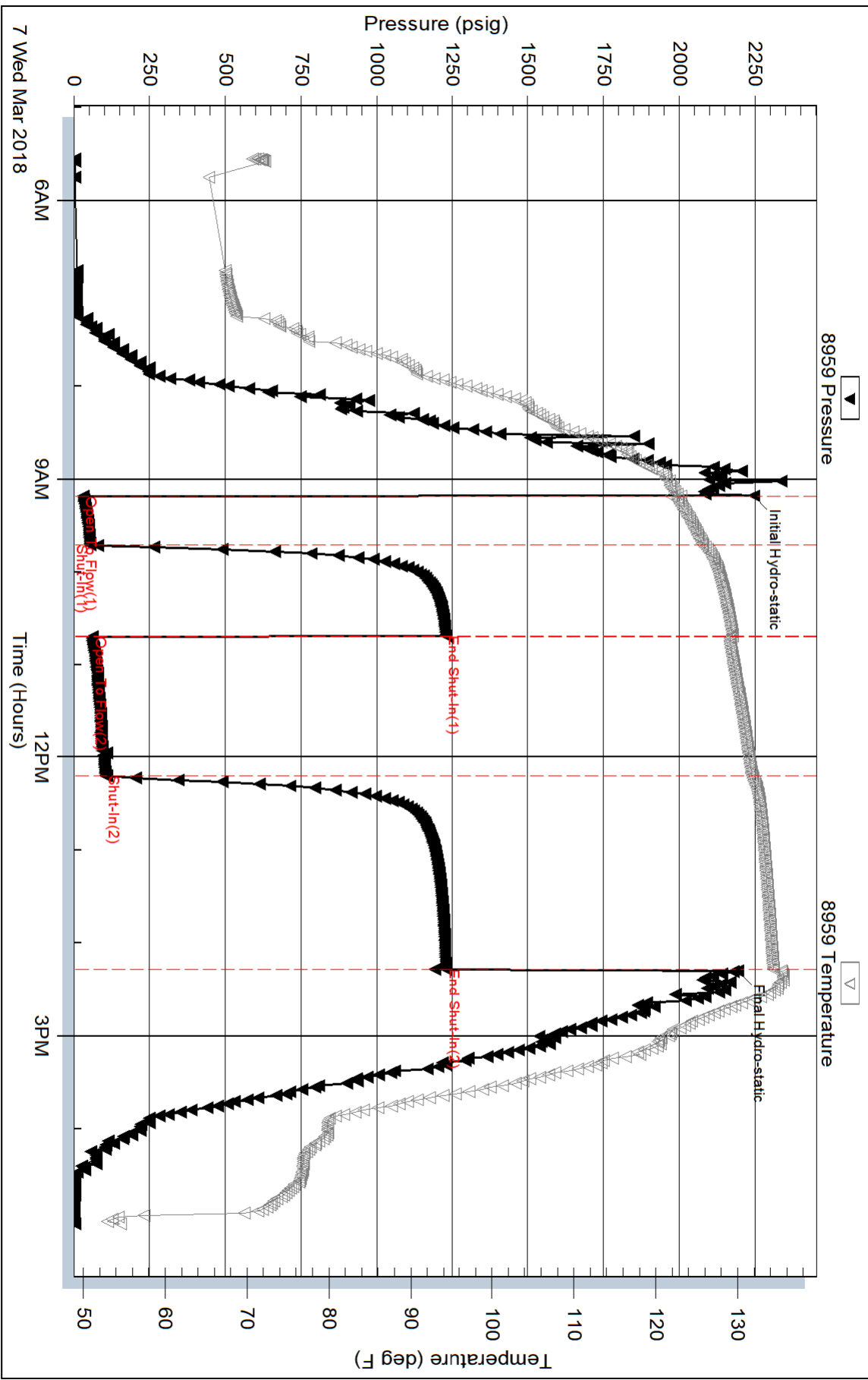
Inside

Berexco LLC

Loop #1-5

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63158

Printed: 2018.03.07 @ 21:25:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC

5-2S.-37W Cheyenne, Co.

2020 N Bramblewood
Wichita, Ks 67206

Loop #1-5

Job Ticket: 63159

DST#: 2

ATTN: Bryan Bynog

Test Start: 2018.03.08 @ 07:25:00

GENERAL INFORMATION:

Formation: **LKC C & D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:50:20

Time Test Ended: 19:07:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4295.00 ft (KB) To 4400.00 ft (KB) (TVD)

Reference Elevations: 3269.00 ft (KB)

Total Depth: 4400.00 ft (KB) (TVD)

3260.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8959

Inside

Press@RunDepth: 336.84 psig @ 4296.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.08

End Date:

2018.03.08

Last Calib.: 2018.03.08

Start Time: 07:25:01

End Time:

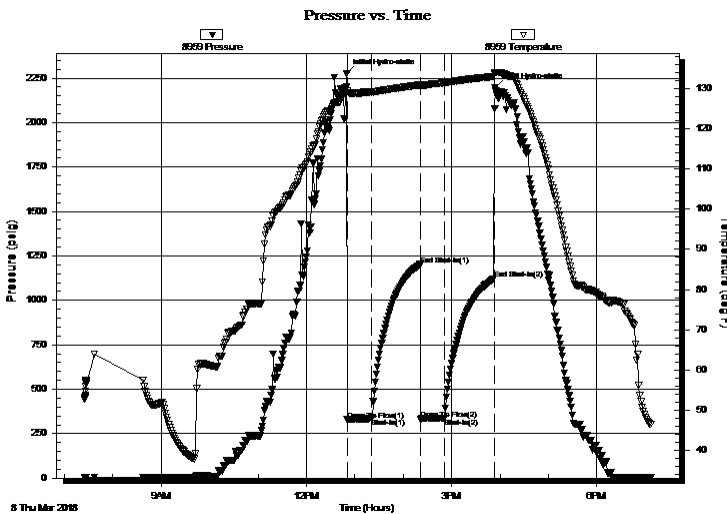
19:07:40

Time On Btm: 2018.03.08 @ 12:50:00

Time Off Btm: 2018.03.08 @ 15:53:50

TEST COMMENT: 30-IF-No blow
60-ISI-No blow
30-FF-No blow
60-FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2277.10	130.23	Initial Hydro-static
1	328.57	129.33	Open To Flow (1)
31	336.82	129.07	Shut-In(1)
91	1201.47	130.88	End Shut-In(1)
92	331.07	130.54	Open To Flow (2)
121	336.84	131.45	Shut-In(2)
183	1122.22	132.98	End Shut-In(2)
184	2195.82	133.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
589.00	100% Mud	4.04

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

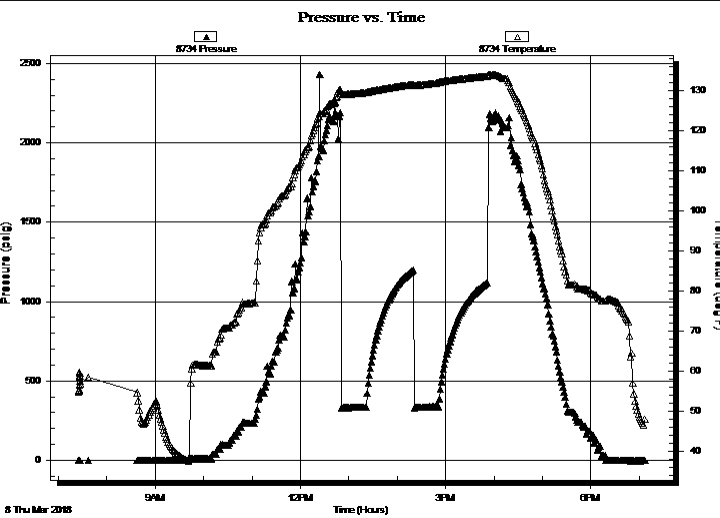
5-2S-.37W Cheyenne, Co.
Loop #1-5
 Job Ticket: 63159 **DST#: 2**
 Test Start: 2018.03.08 @ 07:25:00

GENERAL INFORMATION:

Formation: **LKC C & D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:50:20
 Time Test Ended: 19:07:40
 Interval: **4295.00 ft (KB) To 4400.00 ft (KB) (TVD)**
 Total Depth: 4400.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: 3269.00 ft (KB)
 3260.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8734 Outside
 Press@RunDepth: psig @ 4296.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.08 End Date: 2018.03.08 Last Calib.: 2018.03.08
 Start Time: 07:25:01 End Time: 19:07:40 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-No blow
 60-ISI-No blow
 30-FF-No blow
 60-FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
589.00	100% Mud	4.04

* 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

5-2S.-37W **Cheyenne, Co.**

2020 N Bramblewood
Wichita, Ks 67206

Loop #1-5

Job Ticket: 63159

DST#: 2

ATTN: Bryan Bynog

Test Start: 2018.03.08 @ 07:25:00

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:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 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
589.00	100% Mud	4.035

Total Length: 589.00 ft Total Volume: 4.035 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

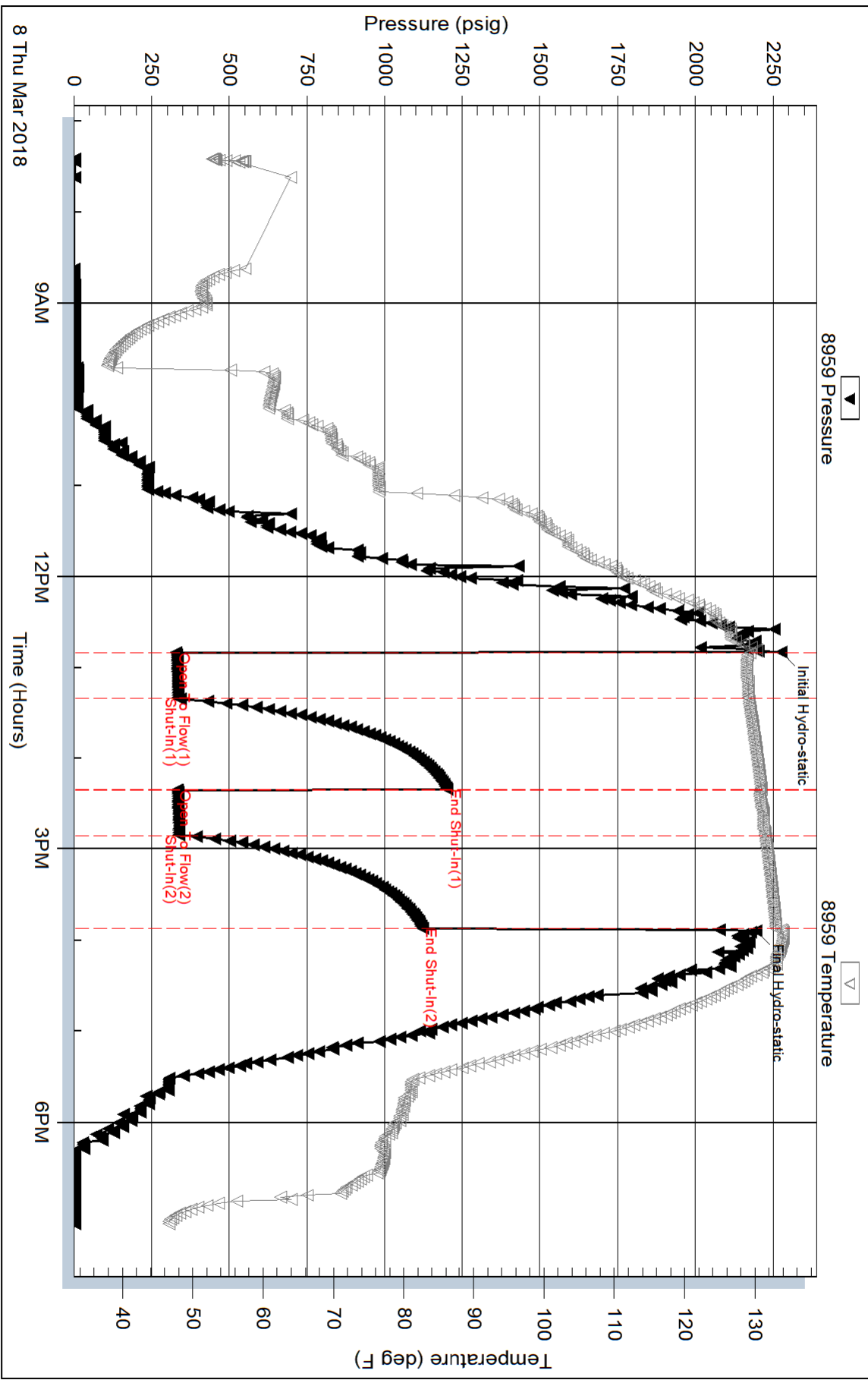
Serial #:

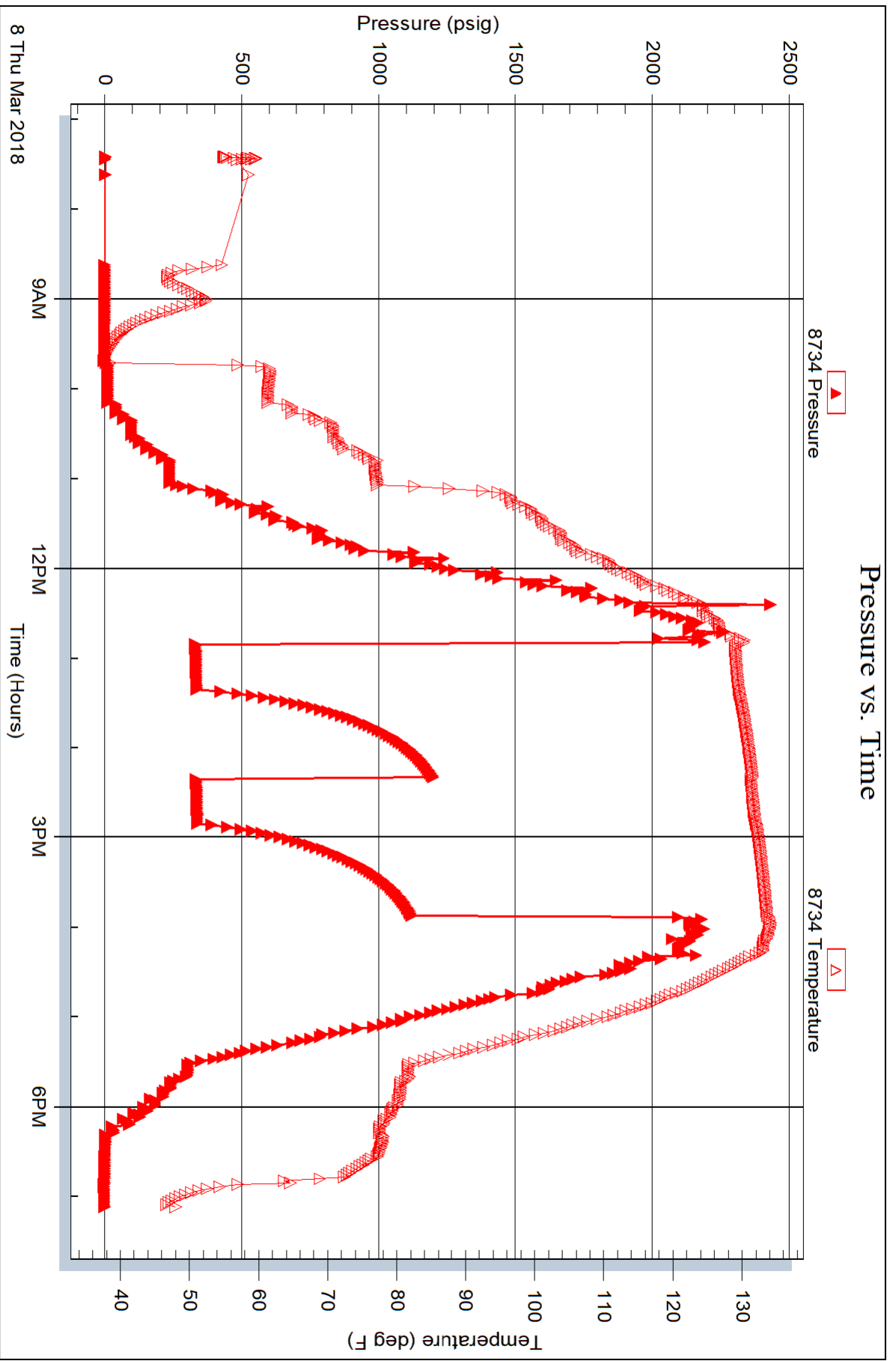
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

5-2S-.37W Cheyenne, Co.

Loop #1-5

Job Ticket: 63160

DST#: 3

Test Start: 2018.03.09 @ 10:19:00

GENERAL INFORMATION:

Formation: **LKC "E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:09:10
 Time Test Ended: 18:56:19
 Interval: **4394.00 ft (KB) To 4440.00 ft (KB) (TVD)**
 Total Depth: 4440.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: 3269.00 ft (KB)
 3260.00 ft (CF)
 KB to GR/CF: 9.00 ft

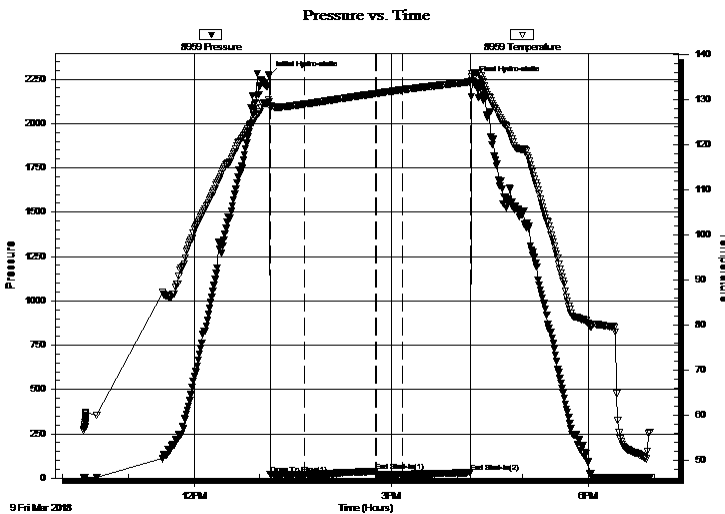
Serial #: 8959

Inside

Press@RunDepth: 21.05 psig @ 4395.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.09 End Date: 2018.03.09 Last Calib.: 2018.03.09
 Start Time: 10:19:01 End Time: 18:56:19 Time On Btm: 2018.03.09 @ 13:09:00
 Time Off Btm: 2018.03.09 @ 16:13:50

TEST COMMENT: 30-IF-S.blow built to 1/4" & died back to S. blow
 60-ISI-No blow
 30-FF-No blow
 60-FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2269.01	129.53	Initial Hydro-static
1	20.72	128.29	Open To Flow (1)
32	20.84	129.03	Shut-In(1)
97	38.15	131.37	End Shut-In(1)
97	21.43	131.37	Open To Flow (2)
122	21.05	132.21	Shut-In(2)
184	30.91	133.97	End Shut-In(2)
185	2243.48	135.84	Final Hydro-static

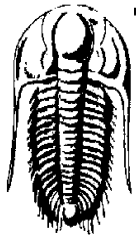
Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% Mud	0.00

* 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

5-2S-.37W **Cheyenne, Co.**
Loop #1-5
Job Ticket: 63160 **DST#: 3**
Test Start: 2018.03.09 @ 10:19:00

GENERAL INFORMATION:

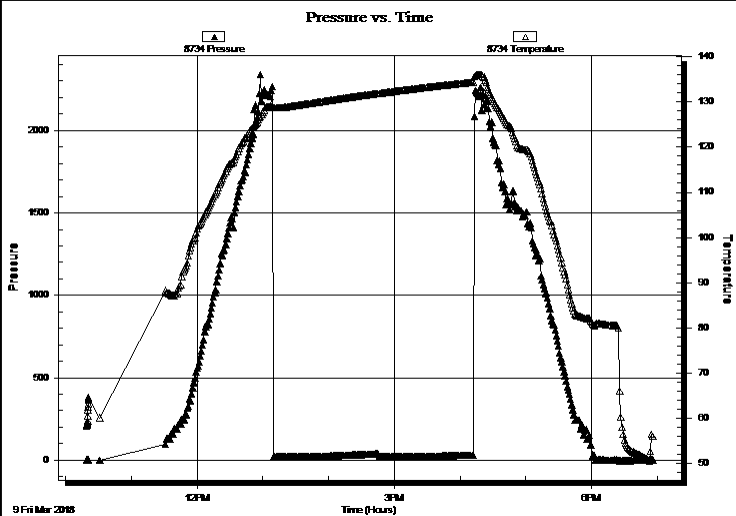
Formation: **LKC "E"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 13:09:10 Tester: Martine Salinas
Time Test Ended: 18:56:19 Unit No: 82
Interval: 4394.00 ft (KB) To 4440.00 ft (KB) (TVD) Reference Elevations: 3269.00 ft (KB)
Total Depth: 4440.00 ft (KB) (TVD) 3260.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: 8734

Outside

Press@RunDepth: psig @ 4395.00 ft (KB)	Capacity: 8000.00 psig	
Start Date: 2018.03.09	End Date: 2018.03.09	Last Calib.: 2018.03.09
Start Time: 10:19:01	End Time: 18:56:19	Time On Btm:
		Time Off Btm:

TEST COMMENT: 30-IF-S.blow built to 1/4" & died back to S. blow
60-ISI-No blow
30-FF-No blow
60-FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% Mud	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

5-2S.-37W **Cheyenne, Co.**

2020 N Bramblewood
Wichita, Ks 67206

Loop #1-5

Job Ticket: 63160

DST#: 3

ATTN: Bryan Bynog

Test Start: 2018.03.09 @ 10:19:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100% Mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

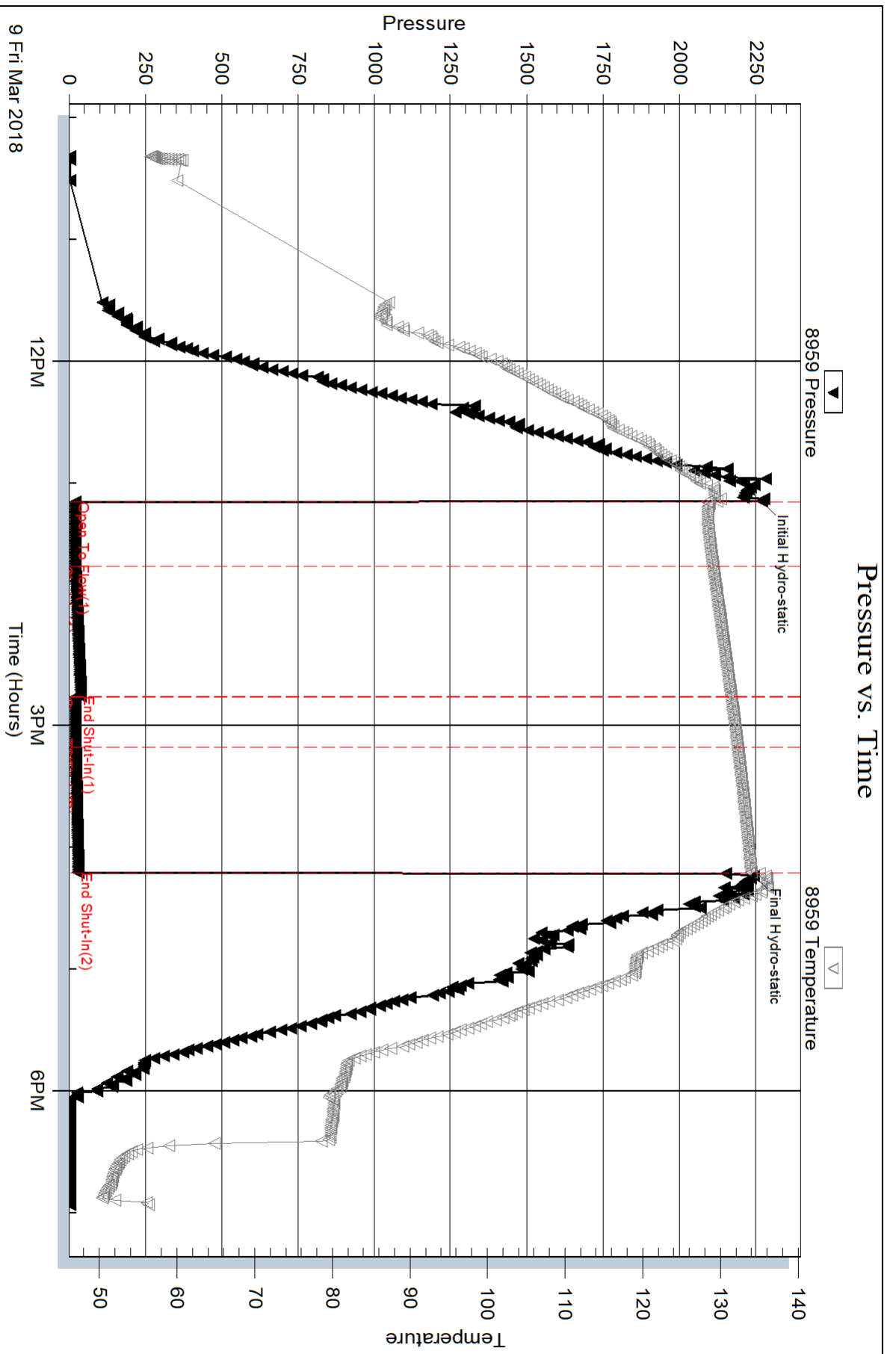
Num Gas Bombs: 0

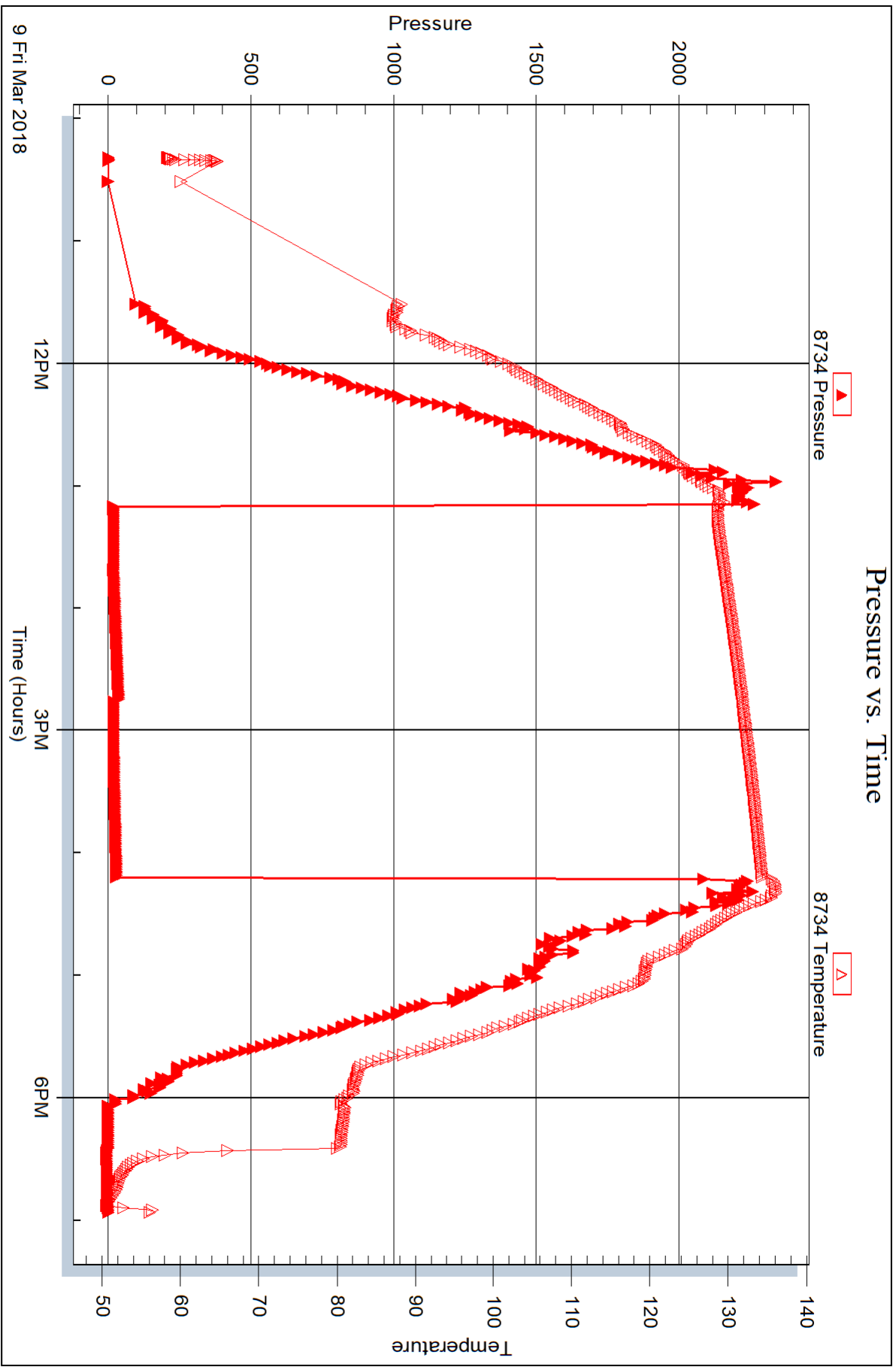
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

5-2S-.37W Cheyenne, Co.

Loop #1-5

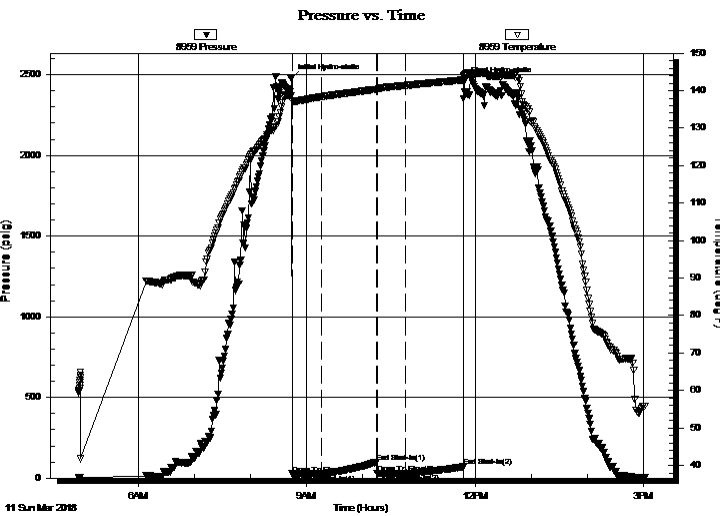
Job Ticket: 63161 **DST#: 4**
Test Start: 2018.03.11 @ 04:56:00

GENERAL INFORMATION:

Formation: **Upper Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:44:10
Time Test Ended: 15:01:49
Interval: **4690.00 ft (KB) To 4741.00 ft (KB) (TVD)**
Total Depth: 4741.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 3269.00 ft (KB)
3260.00 ft (CF)
KB to GR/CF: 9.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Serial #: 8959 Inside
Press@RunDepth: 26.99 psig @ 4691.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.03.11 End Date: 2018.03.11 Last Calib.: 2018.03.11
Start Time: 04:56:01 End Time: 15:01:49 Time On Btm: 2018.03.11 @ 08:43:20
Time Off Btm: 2018.03.11 @ 11:48:00

TEST COMMENT: 30-IF- S.blow built to 1"
60-ISI-No blow
30-FF-No blow
60-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2477.28	138.59	Initial Hydro-static
1	25.55	137.38	Open To Flow (1)
33	26.32	138.37	Shut-In(1)
92	99.76	140.37	End Shut-In(1)
92	28.19	140.35	Open To Flow (2)
123	26.99	141.37	Shut-In(2)
184	70.56	142.84	End Shut-In(2)
185	2460.75	144.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.02

* 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

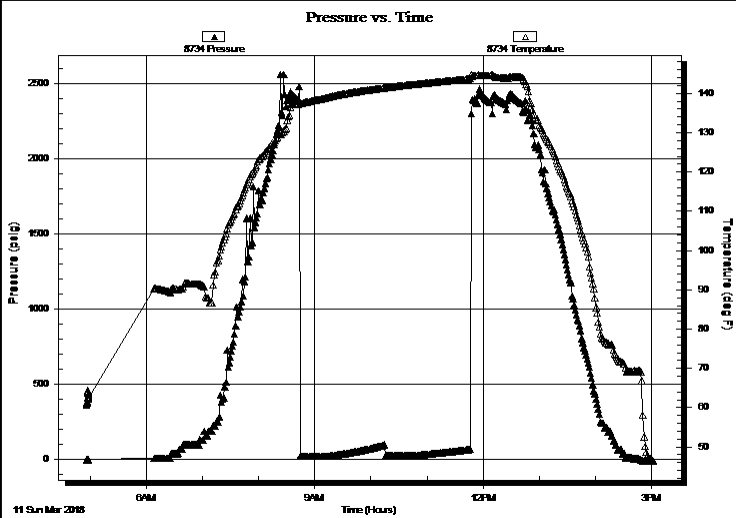
5-2S-.37W Cheyenne, Co.
Loop #1-5
 Job Ticket: 63161 **DST#: 4**
 Test Start: 2018.03.11 @ 04:56:00

GENERAL INFORMATION:

Formation: **Upper Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:44:10
 Time Test Ended: 15:01:49
 Interval: **4690.00 ft (KB) To 4741.00 ft (KB) (TVD)**
 Total Depth: 4741.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: 3269.00 ft (KB)
 3260.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8734 Outside
 Press@RunDepth: psig @ 4691.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.11 End Date: 2018.03.11 Last Calib.: 2018.03.11
 Start Time: 04:56:01 End Time: 15:02:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF- S.blow built to 1"
 60-ISI-No blow
 30-FF-No blow
 60-FSI-No blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.02

* 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

5-2S.-37W **Cheyenne, Co.**

2020 N Bramblewood
Wichita, Ks 67206

Loop #1-5

Job Ticket: 63161

DST#: 4

ATTN: Bryan Bynog

Test Start: 2018.03.11 @ 04:56:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.56 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
5.00	100% Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

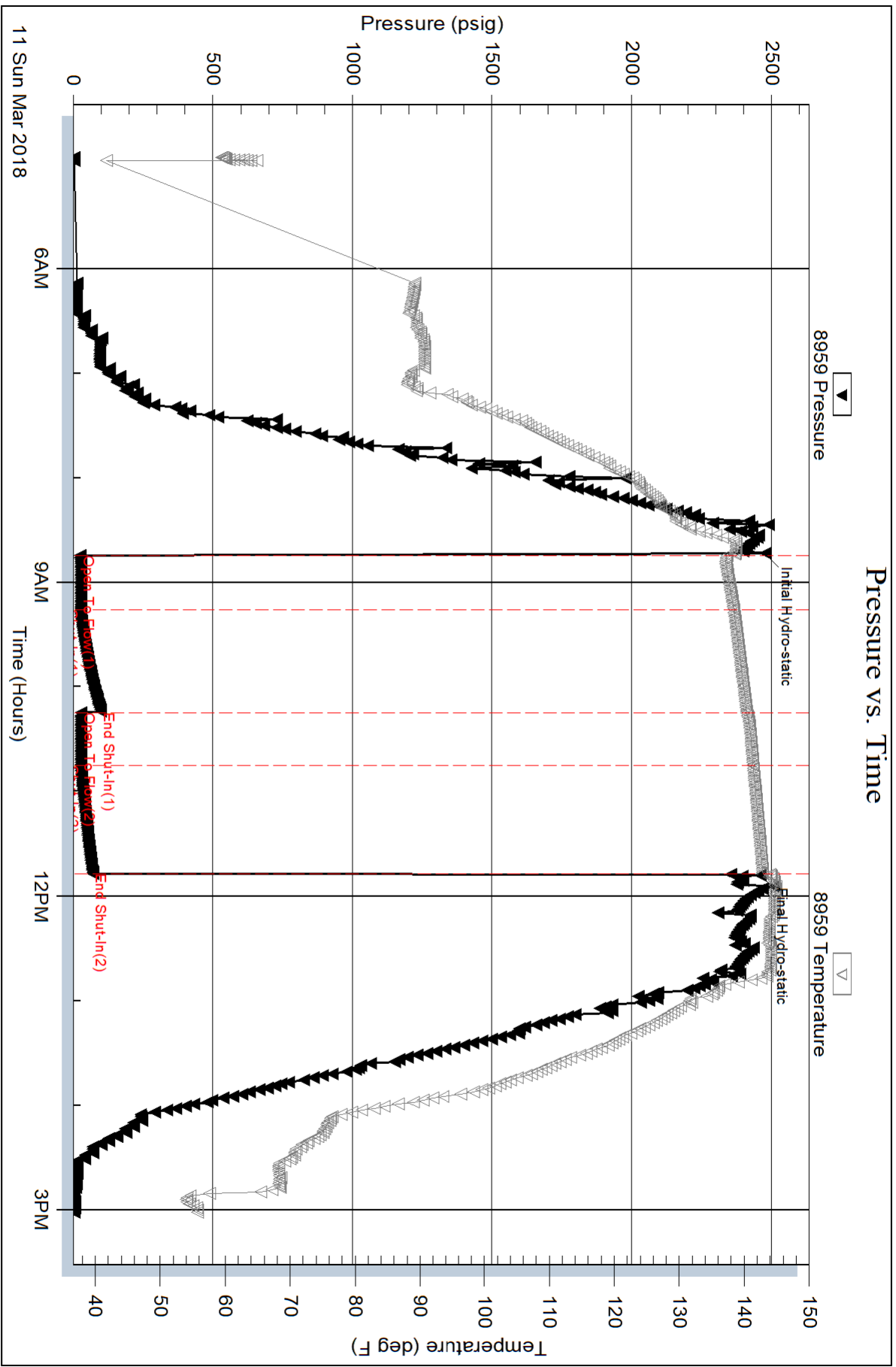
Serial #: 8959

Inside

Berexco LLC

Loop #1-5

DST Test Number: 4

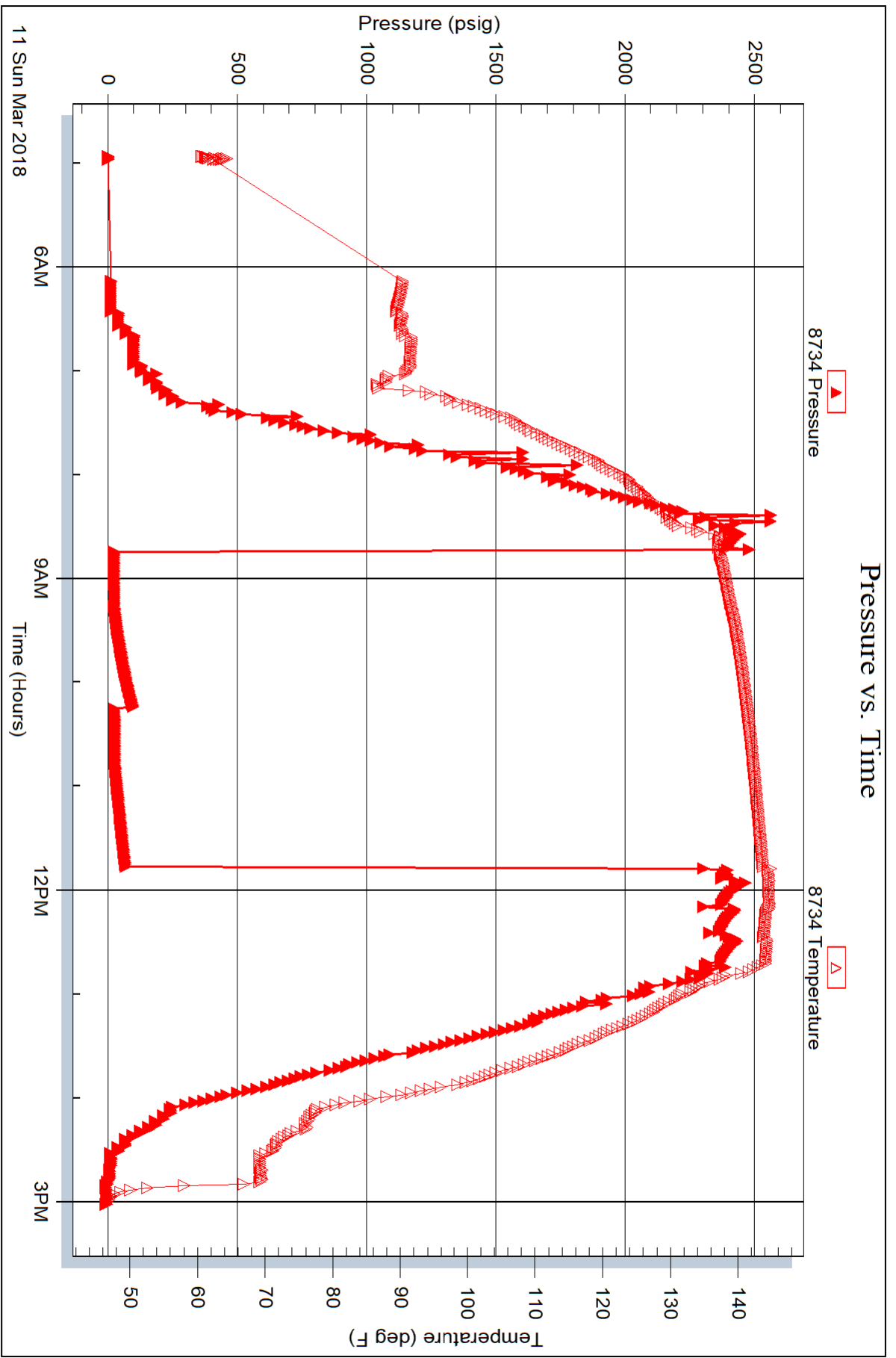


Serial #: 8734

Outside Berexco LLC

Loop #1-5

DST Test Number: 4





REMIT TO
 QES Pressure Pumping LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAR 19 2018 MAIN OFFICE

P.O.Box884
 Chanute,KS 66720
 620/431-9210,1-800/467-8676
 Fax 620/431-0012

Invoice

Invoice# 812648

Invoice Date: 03/14/18

Terms: Net 30

Page 1

BEREXCO, LLC

2020 N. Bramblewood Street
 Wichita KS 67206
 USA
 3162653311

LOOP 1-5

RECEIVED MAR 22 2018

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	35.000	747.50
CE0002	Equipment Mileage Charge - Heavy Equipment	75.000	7.1500	35.000	348.56
CE0710	Cement Delivery Charge	969.750	1.7500	35.000	1,103.09
CC5871	Surface Blend II, 2% Gel/3% CaCl	275.000	24.0000	35.000	4,290.00
CC5326	Sodium Chloride, Salt	100.000	0.0000	0.000	0.00

CORP: 333 GL DATE: 1803
 GLMAJR: 2090 GLMINR: 1000
 A/C: _____ ENTITY: 1388401
 VIP #: 13005 C BY: JK R BY: _____
 DESC: _____

Subtotal 9,983.31
 Discounted Amount 3,494.16
 SubTotal After Discount 6,489.15
 Amount Due 10,544.31 If paid after 04/13/18

ENTERED

Tax: 364.65
 Total: 6,853.80

*cmt 8 5/8" surf csq
 BCP*

RRR



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

10217
 10104

TICKET NUMBER 55010
 LOCATION Da. Riley KS
 FOREMAN Jerry

FIELD TICKET & TREATMENT REPORT
 CEMENT

INVOICE # 812648 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
3-1-18	1707	Loop 1-5	5	25	37W	Cherokee	
CUSTOMER Berecoco		Bird City N to Y E to curve S to E into		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 2020 N. Bramblewood Street				731	Cory D		
CITY Wichita		STATE KS	ZIP CODE 67206	566	Neil W		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 353 CASING SIZE & WEIGHT 8 5/8 20 #
 CASING DEPTH 348 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL 1.24 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 21 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on Berecoco #2 circulate casing mix 275 sks
com 3% cc, 2% galv. 90% disp with 21 bbl water & start in circulated
approx 4661 to pit

Cement
circulated

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	12.93	ton mileage delivery	117.5	1697.00
CC5871	275 sks	Surface blend II	24.00	6600.00
CC5326	100 #	Salt	NC	NC
			Subtotal	9985.31
			-358	3494.16
			Subtotal	6489.15

RECEIVED MAR 13 2018

SALES TAX 364.65
 ESTIMATED TOTAL 6853.80
 DATE 3-01-18

ENTERED MAR 13 2018
 AUTHORIZATION Walter Brown TITLE Tool Pusher

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.



REMIT TO
QES Pressure Pumping LLC
Dept:970
P.O.Box 4346
Houston, TX 77210-4346

MAR 19 2018

MAIN OFFICE

P.O.Box884
Chanute,KS 66720
620/431-9210,1-800/467-8676
Fax 620/431-0012

Invoice

Invoice#

812655

Invoice Date: 03/14/18

Terms: Net 30

Page 1

BEREXCO, LLC

2020 N. Bramblewood Street
Wichita KS 67206
USA
3162653311

Loop #1-5

RECEIVED MAR 22 '18

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0451	Cement Pump Charge 1501' - 3000'	1.000	1,900.0000	35.000	1,235.00
CE0002	Equipment Mileage Charge - Heavy Equipment	75.000	7.1500	35.000	348.56
CE0710	Cement Delivery Charge	774.000	1.7500	35.000	880.43
CC5829	Lite-Weight Blend V (60:40:4)	240.000	16.0000	35.000	2,496.00
CC6075	Celloflake	60.000	3.0000	35.000	117.00
CP8228	8 5/8" Wooden Plug	1.000	168.0000	35.000	109.20

CORP 333 GL DATE: 1803

GLMAJR: 2134 GLMINR: 1000

A/C: _____ ENTITY: 1388401

V/P # 13005 C BY XC R BY _____

DESC: _____

Subtotal 7,978.75

Discounted Amount 2,792.56

SubTotal After Discount 5,186.19

Amount Due 8,334.73 If paid after 04/13/18



Tax: 231.38

Total: 5,417.57

*PEA amt
BCP*

RRR



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

10222
 10110

TICKET NUMBER 55063
 LOCATION Oakley Ks
 FOREMAN Walt Dunkel

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice # 812655 Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-12-18	1707	Loop #1-5	5	25	37W	Cheyenne
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Borexco Inc			753	Miles Skewl		
Mailing Address 200 N. Bamberwood St.			772-T027	Paul Williams		
CITY	STATE	ZIP CODE	Bird City North to YPO-1E 1 1/2 S+E			
Wichita	KS	67206				

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4800' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 X 12 TUBING _____ OTHER _____
 SLURRY WEIGHT 13.0 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, Rig up on Borexco #2, Plug as ordered

50 SKS @ 3210' 240 SKS 60/40 per 4% led, 1/4" Flo Seal
 100 SKS @ 2400'
 50 SKS @ 400' ~~with plug~~
 10 SKS @ 40' w/ wiper Plug
~~15 SKS @ 40'~~
 30 SKS in R.H.

Thank You
 Walt Dunkel

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
Co0451	1	PUMP CHARGE	1,900.00	1,900.00
Co0002	75	MILEAGE	7.15	536.25
Co0710	10.92	Ton Mileage Delivery	1.25	1,365.00
CC5829	240 SKS	Lite weight - Blend V	16.00	3,840.00
CC6075	60 #	Flo Seal	3.00	180.00
CP8228	1	8 5/8 Wiper Plug	168.00	168.00
				7,978.25
		Less 35% Disc		2,792.56
				5,186.19
				8,500.00
		Less 30% Disc		2,950.00
				5,550.00
		SALES TAX		231.39
		ESTIMATED TOTAL		5,781.39

Revin 3737

AUTHORIZATION Walt Dunkel TITLE Tool Pusher DATE 3/12/2018

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.

LITHOLOGY STRIP LOG

WellSight Systems

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

Measured Depth Log

Well Name: LOOP #1-5

Well Id:

Location: SENESW 5- 2S-37W Cheyenne County, Kansas

License Number: 15-023-21477

Region: Midcontinent

Spud Date: 2-27-2018

Drilling Completed: 3-12-2018

Surface Coordinates: 1865' FSL & 2220' FWL

Bottom Hole

Coordinates:

Ground Elevation (ft): 3261

K.B. Elevation (ft): 3269

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

DEPTH	ANGLE
348'	3/4
3410'	1
4322'	1
4440	3/4

DSTs

DST#1 4170-4322, DST#2 4295-4400, DST#3 4395-4440, DST#4 4690-4741

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
- 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
- Wackest

OTHER SYMBOLS

POROSITY

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOW

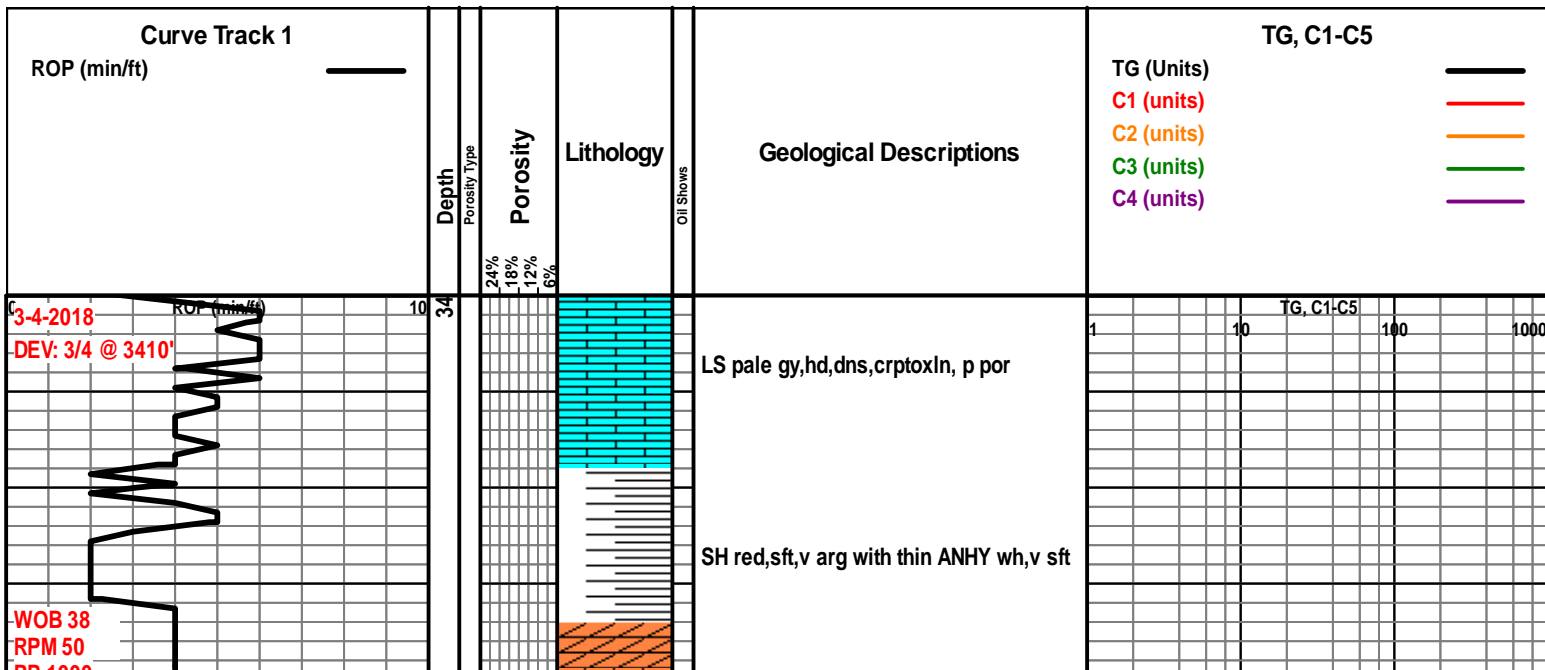
- Even
- Spotted
- Ques
- Dead

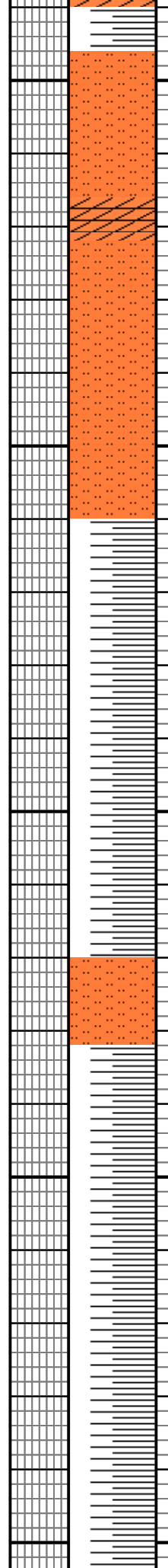
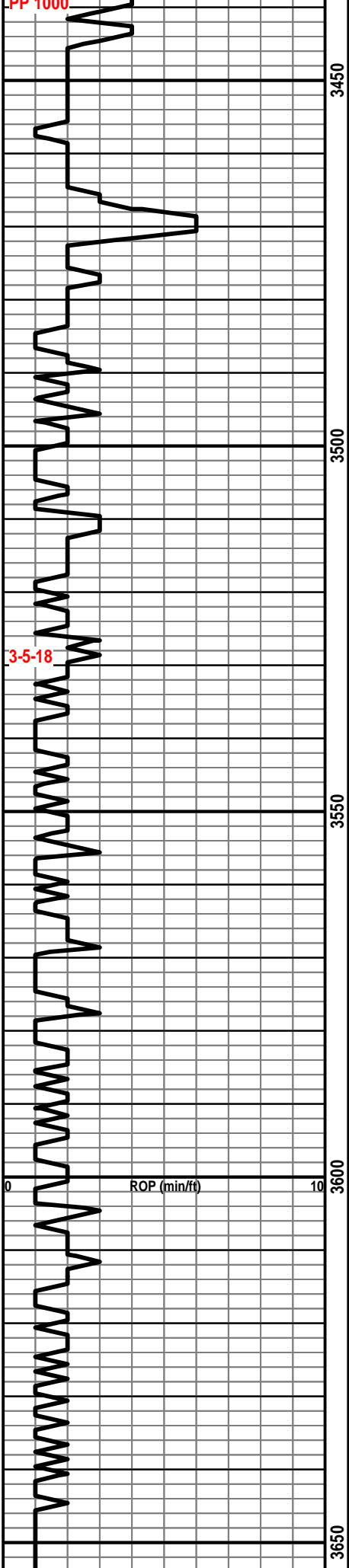
INTERVAL

- Dst
- Dst

EVENT

- Rft
- Sidewall



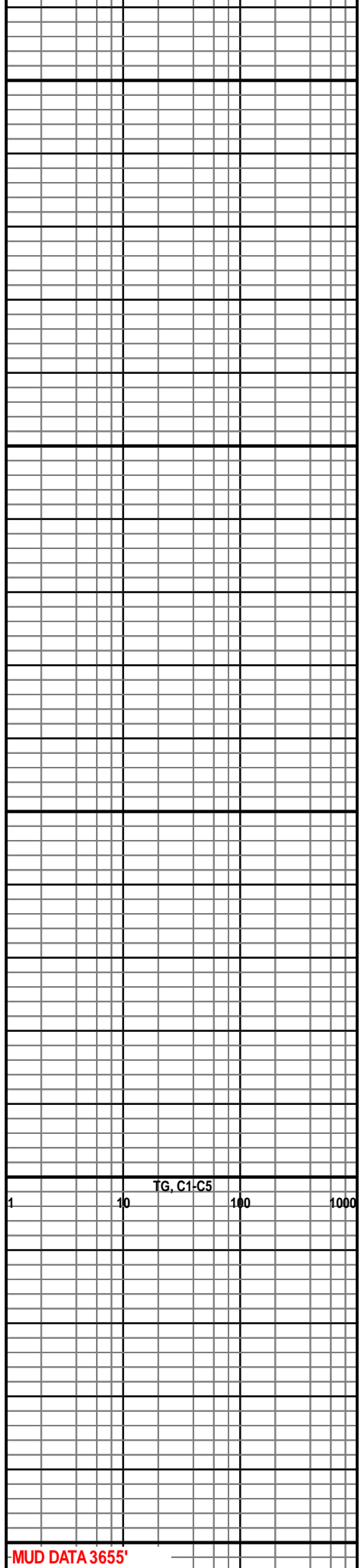


SLTST red,pale orng,frm with thn ANHY aa

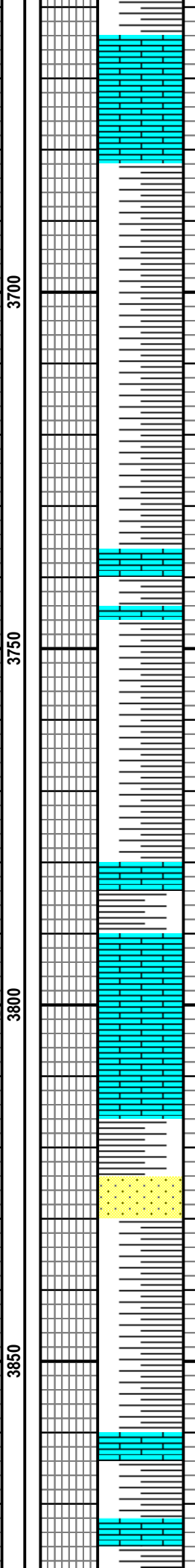
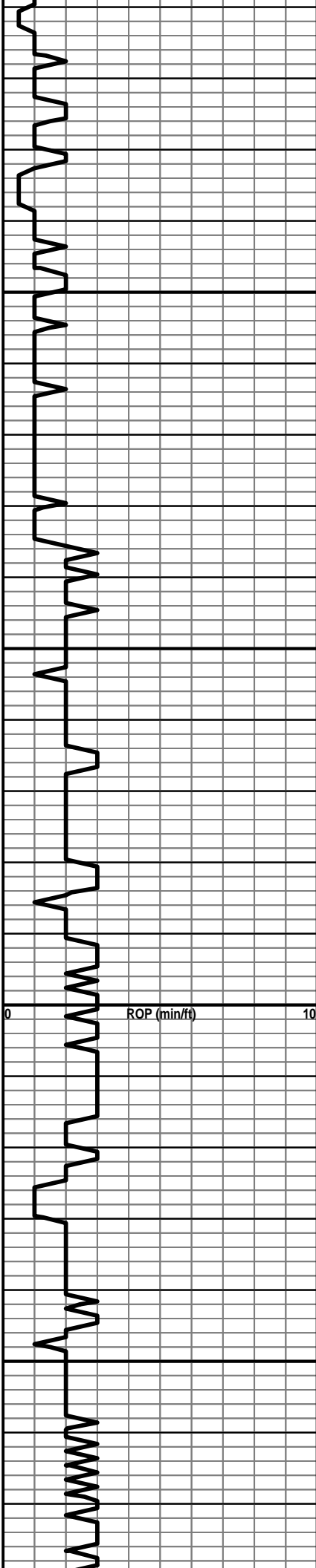
SH red,sft,v arg,slty ip

SLTST aa

SH aa red,arg,slty ip



MUD DATA 3655'
 WT 8.8 VIS 60 FL6.4
 PH 12.0 CK 2 CL 700



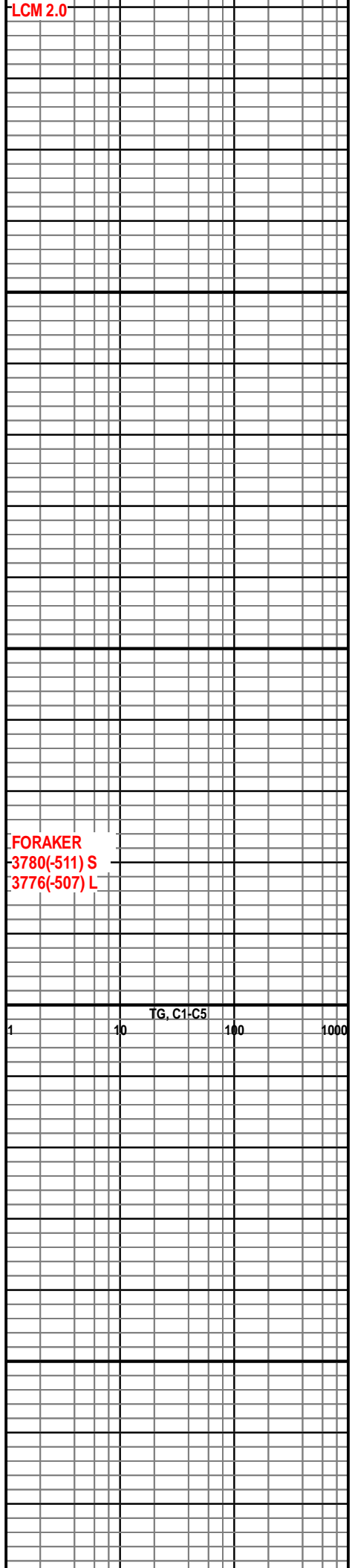
LS off wh,frm,foss,gran, chky ip,p por,ns

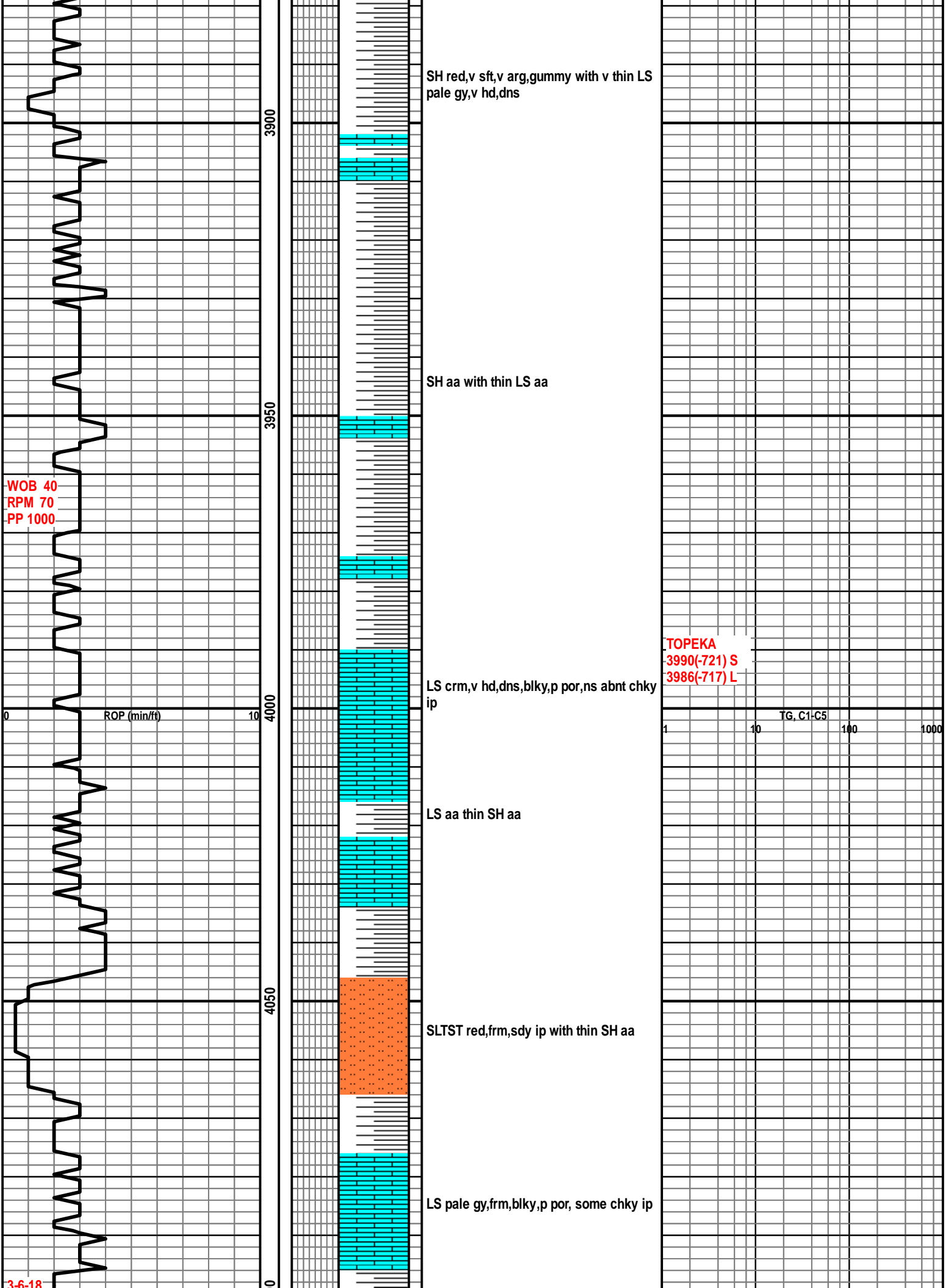
SH red,sft,v arg with some v thin LS
aa,dns,ns

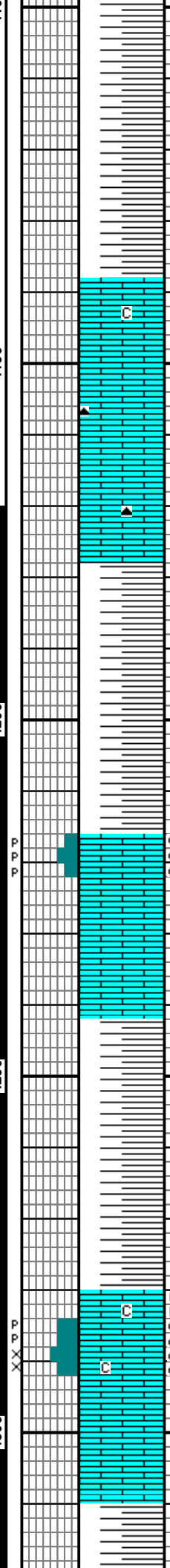
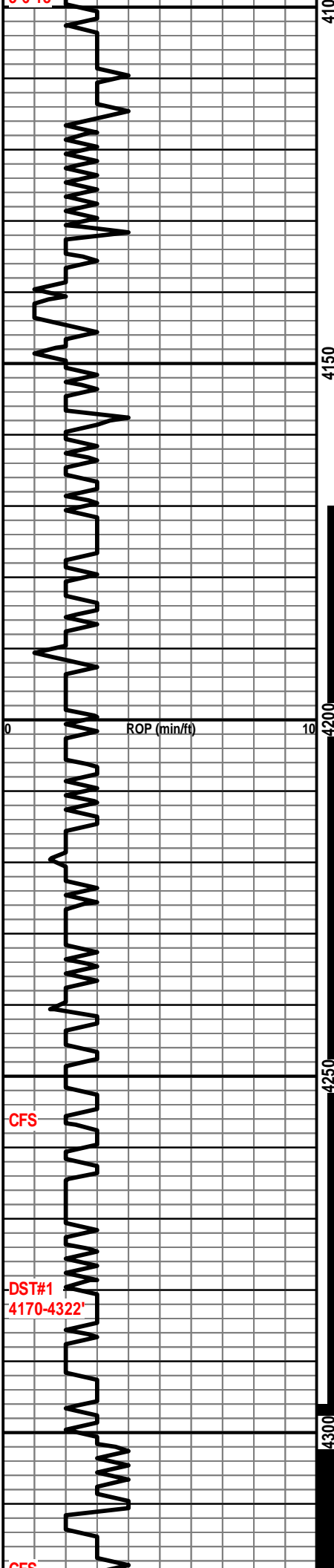
pale gy,gy blk,hd,foss,arg,p por,ns with
thin SH gy blk,frm,blky, sl carb

SS pale gy,frm,vfg,calc cmt,p vis por,ns

SH red,sft,v arg with thin LS aa pale
gy,hd,dns,ns







SH red,gn,gy,sft,v arg

LS crm,hd,blky,some chky ip,p por,ns

LS pale gy,v hd,dns,crptoxln, blky,ns,tr
Cht orng

SH gn,red,gy,frm,fiss ip

LS off wh-pale gy,frm,sl chky ip,p pp
vuggy por,v spty live brn stn,fr cut,nfo

LS crm,v hd,dns,blky, crptoxln,no vis
por,ns bcmg chky @ base

SH red,sft,arg,slty ip

LS off wh-crm,sl hd,blky,chky ip,p pp
vuggy por,v spty dd stn

LS off wh,frm,sl foss,chky ip,p-fr intg
foss por,spty live brn stn,g cut,p show
free oil

LS pale gy,v hd,dns,blky, crptoxln,chky
ip,p por,ns

OREAD
4138(-869) S
4138(-869) L

MUD DATA 4158'
WT 9.2 VIS 62 FL 7.6
PH 10.5 CK 2 CL 800
LCM 2.0

LANSING A
4215(-946) S
4215(-946) L

DST#1 4170-4322' 30-60-90-120 min.
IH 2245 IF 30-54 (2.25" BLW) ISI 1228
FF 62-104 (2.25"BLW) FSI 1228
FH 2193
REC: 1' CO & 175' OCM (12% OIL)

B ZONE
4280(-1011) S
4276(-1007) L

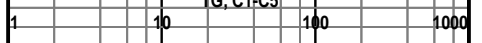
MUD DATA 4322'
WT 9.3 VIS 58 FL 8.0
PH 10.0 CK 2 CL 800
LCM 1.0

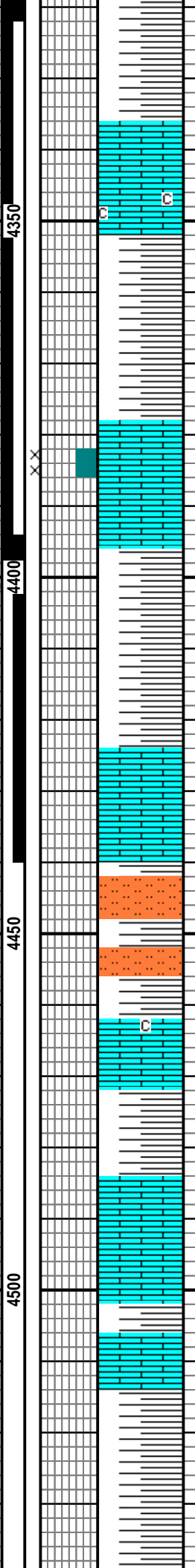
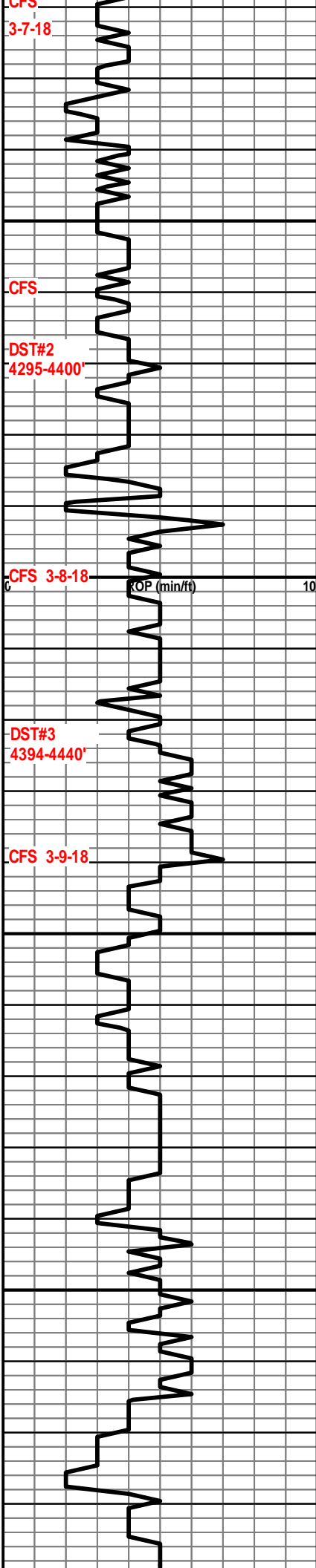
CFS

DST#1
4170-4322'

CFS

TG, C1-C5





SH gn,red,sft,arg

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

LS wh,frm,v chky,p vis por,ns

SH gn,sft-frm,arg,fiss ip

LS crm,frm,sl foss,v fnly xln,p-fr intxn & foss por,ns

SH red,gn,gy,sft,arg,gummy

LS crm-off wh,hd,blky,dns,v fnly xln,chky ip p vis por,ns

SH dark red,frm,fiss,arg with thin SLTST orng,frm

LS crm,v hd,dns,crptoxln, v blky,ns

SH aa

LS wh,frm,v fnly xln,chky ip p vis por,ns with thin SH aa

COM 1.0

C ZONE
4336(-1067) S
4334(-1065) L

DST#2 4295-4400' 30-60-30-60 min.
IH 2277 IF 329-337 (NB, Tool opened 6' off bottom) ISI 1201 FF 331-337 FSI 1122 FH 2196 REC: 598' MUD

D ZONE
4378(-1109) S
4376(-1107) L

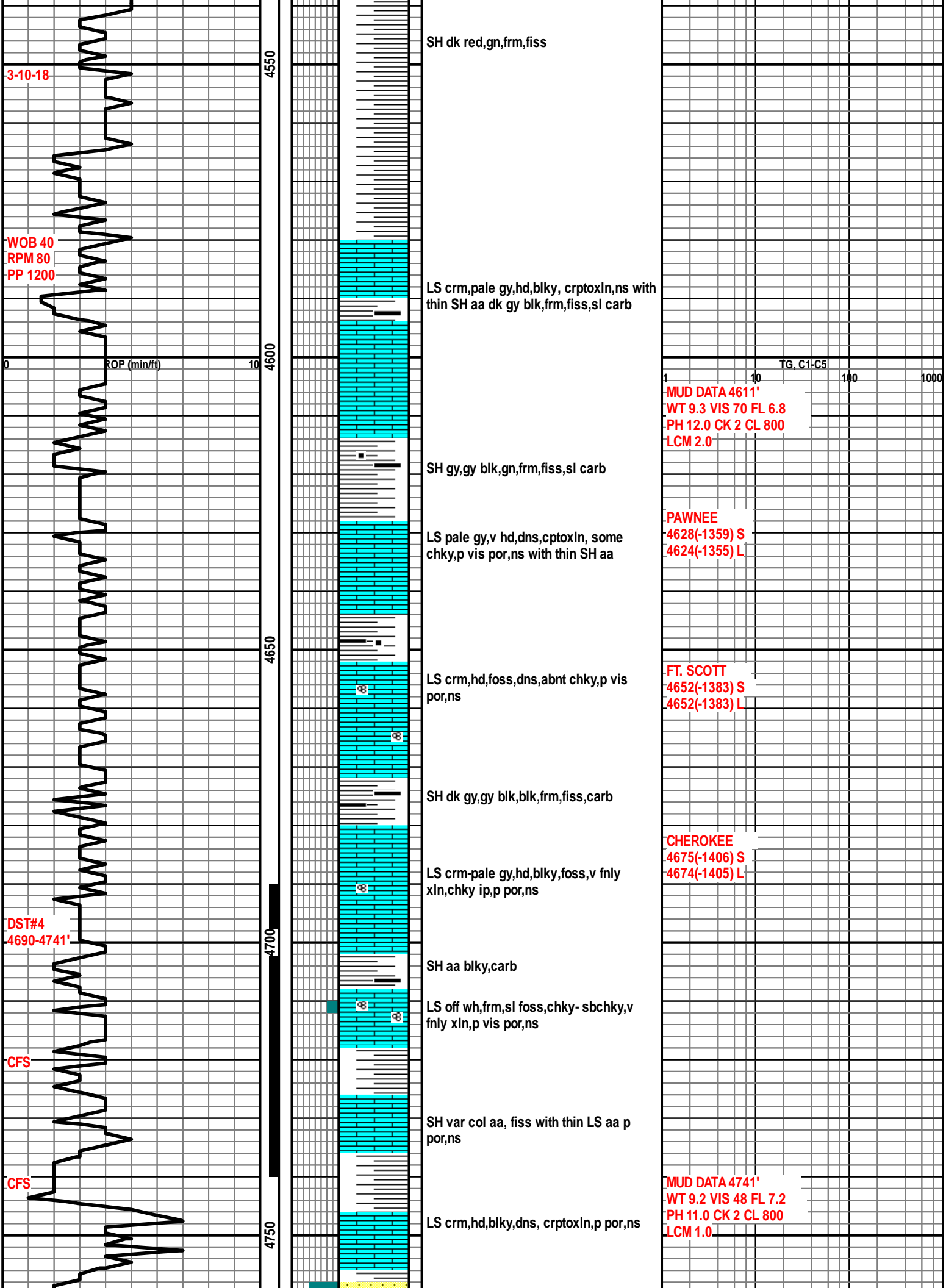
MUD DATA 4400'
WT 9.1 VIS 62 FL 6.8
PH 11.5 CK 2 CL 1000 LCM 1.0

E ZONE
4424(-1155) S
4424(-1155) L

DST#3 4395-4440' 30-60-30-60 min.
IH 2269 IF 21-21 (NB) ISI 38 FF 21-21 FSI 31 FH 2243 REC: 1' MUD

MUD DATA 4440'
WT 9.3 VIS 54 FL 6.8
PH 11.0 CK 2 CL 700 LCM 1.0

F ZONE
4462(-1193) S
4464(-1195) L



3-10-18

WOB 40
RPM 80
PP 1200

ROP (min/ft)

DST#4
4690-4741'

CFS

CFS

4550
4600
4650
4700
4750

SH dk red,gn,frm,fiss

LS crm,pale gy,hd,blky, crptoxln,ns with thin SH aa dk gy blk,frm,fiss,sl carb

SH gy,gy blk,gn,frm,fiss,sl carb

LS pale gy,v hd,dns,cptoxln, some chky,p vis por,ns with thin SH aa

LS crm,hd,foss,dns,abnt chky,p vis por,ns

SH dk gy,gy blk,blk,frm,fiss,carb

LS crm-pale gy,hd,blky,foss,v fnly xln,chky ip,p por,ns

SH aa blky,carb

LS off wh,frm,sl foss,chky- sbchky,v fnly xln,p vis por,ns

SH var col aa, fiss with thin LS aa p por,ns

LS crm,hd,blky,dns, crptoxln,p por,ns

TG. C1-C5
1 10 100 1000

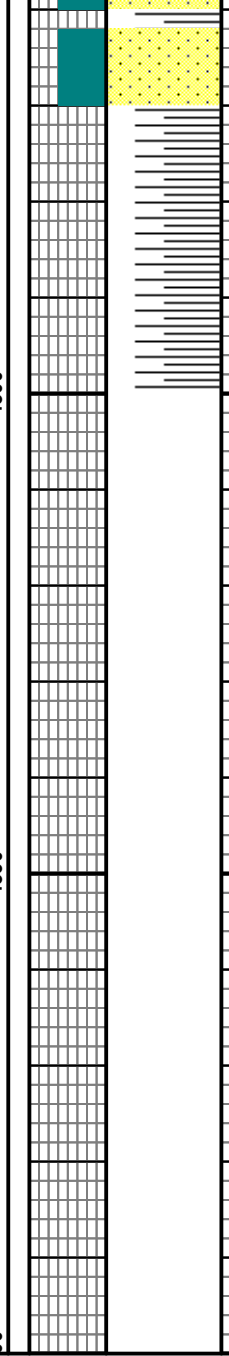
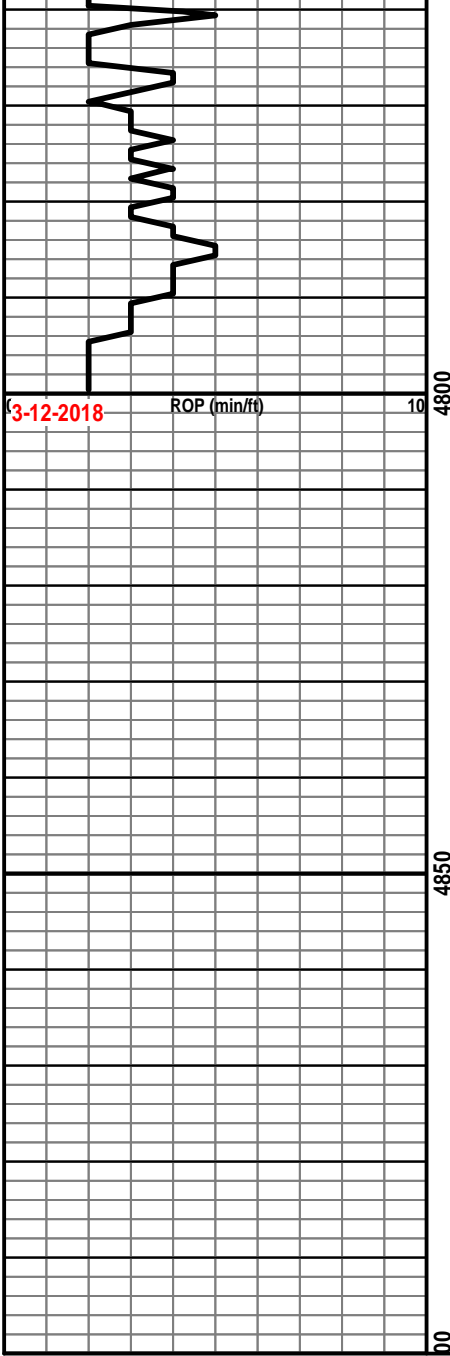
MUD DATA 4611'
WT 9.3 VIS 70 FL 6.8
PH 12.0 CK 2 CL 800
LCM 2.0

PAWNEE
4628(-1359) S
4624(-1355) L

FT. SCOTT
4652(-1383) S
4652(-1383) L

CHEROKEE
4675(-1406) S
4674(-1405) L

MUD DATA 4741'
WT 9.2 VIS 48 FL 7.2
PH 11.0 CK 2 CL 800
LCM 1.0



SS wh,frm,f-mg,p srted,g intg por,ns
bcmg m-cg at base

SH red,gn,gy,frm fiss

RTD 4800'
LTD 4800'

