KOLAR Document ID: 1509889

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 # 34318
Name: BEREXCO LLC
Address 1: 2020 N. BRAMBLEWOOD
Address 2:
City: WICHITA State: KS Zip: 67206 + 1094
Contact Person: Rodney Reynolds
Phone: (316) 265-3311
CONTRACTOR: License # 34317
Name: BEREDCO LLC
Wellsite Geologist: Bryan Bynog
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 #:

2/17/2020	2/29/2020	3/1/2020
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-023-21537-00-00
Spot Description:
_ - _ - NW - SW Sec. 10 Twp. 3 S. R. 38 ☐ East ☑ West
1980 Feet from ☐ North / ☑ South Line of Section
660 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Cheyenne
Lease Name: HICKERT Well #: 1-10
Field Name:
Producing Formation: NA
Elevation: Ground: 3402 Kelly Bushing: 3410
Total Vertical Depth: 5055 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 362 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: 800 ppm Fluid volume: 500 bbls
Dewatering method used: Evaporated
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: 03/13/2020
☐ **Confidential Release Date:** 03/13/2022
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 03/13/2020

Operator Name: BEREXCO LLC Lease Name: HICKERT Well #: 1-10

Sec. 10 Twp. 3 S. R. 38 ☐ East ☑ West County: Cheyenne

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Anhydrite	3260	150
Lansing	4310	-900
Pawnee	4686	-1276
Cherokee	4802	-1392

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	20	362	Class A	300	2% gel, 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	HICKERT 1-10
Doc ID	1509889

All Electric Logs Run

Microlog
Porosity
Radiation Guard
Induction

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	HICKERT 1-10
Doc ID	1509889

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	362	Class A	300	2% gel, 3% CC

CEMENT TREATMENT REPORT

Customer:	Berexco	Well:	Hickert 1-10	Ticket:	ICT 3279
City, State:	Oakley KS	County:	Cheyenne	Date:	2/18/2020
Field Rep:		S-T-R:	10-3S-38W	Service:	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	369 ft
Casing Size:	8 5/8 in
Casing Depth:	369.18 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	22.0 bbls

Calculated Slurry	
Weight:	14.8 # / sx
Water / Sx:	6.00 gal / sx
Yield:	1.41 ft^3 / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	75.3 bbls
Total Sacks:	300 sx

Product	% / #	#
Class H	100.00	28200
Poz		
Gel	2.00	564
CaCl	3.00	846
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		
Total		29,610

TIME	RATE	PSI	BBLs	REMARKS
100A				ON LOCATION
105A				SAFETY MEETING
115A				RIG UP GET THE FOLLOWING 369 FT TD, 369.18 FT 8 5/8 23# CASING, 15 FT LANDING JOINT
325A				CASING ON BOTTOM
335A				CIRCULATE
350A	3.6	20.0	5.0	H2O AHEAD
352A	5.3	160.0	75.3	CEMENT 300 SKS H-325
410A	4.0	120.0	12.0	DISPLACE H2O
413A	4.0	60.0	10.0	DISPLACE H2O
415A				SHUT IN
420A				WASH UP
430A				RIG DOWN
450A				LEFT LOCATION
				CIRCULATE CEMENT TO SURFACE 10 BBLS TO PIT

	CREW	UNIT
Cementer:	Jimmie Cottrell	73
Pump Operator:	Jeff Jackson	271
Bulk #1:	John Polley	205
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.225 bpm	90 psi	102 bbls

Hurricane Services, Inc.
250 N. Water
Wichita, KS 67202

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66011 **DST#: 1**

Test Start: 2020.02.23 @ 13:20:00

GENERAL INFORMATION:

Formation: **Lansing A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:52:40
Time Test Ended: 21:22:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shaw n Wheelbarger
Unit No: 76

Interval: 4260.00 ft (KB) To 4355.00 ft (KB) (TVD)
Total Depth: 4355.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

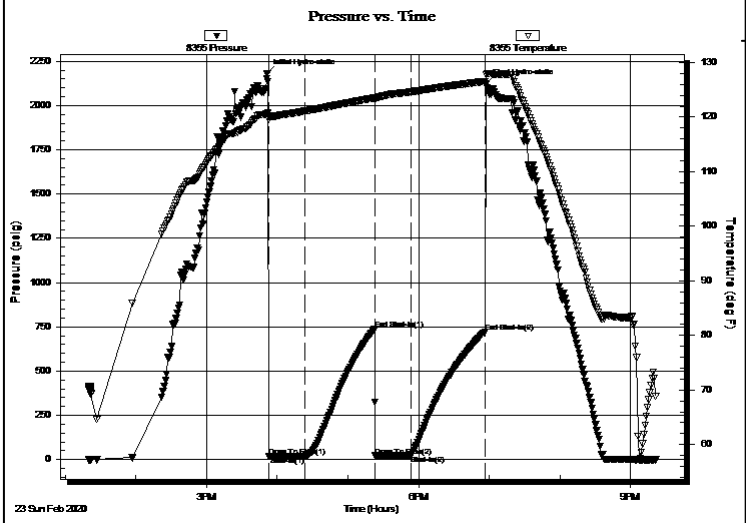
Reference Elevations: 3410.00 ft (KB)
3402.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8355

Press@RunDepth: 21.35 psig @ ft (KB)
Start Date: 2020.02.23 End Date: 2020.02.23
Start Time: 13:20:01 End Time: 21:22:00

Capacity: 8000.00 psig
Last Calib.: 2020.02.23
Time On Btm: 2020.02.23 @ 15:51:30
Time Off Btm: 2020.02.23 @ 18:57:09

TEST COMMENT: 30-IF-Surface blow @ open built to 1/4" in 9 min declined to surface blow
60-ISI-No blow back
30-FF-No blow
60-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2181.22	120.61	Initial Hydro-static
2	18.10	119.53	Open To Flow (1)
32	18.13	121.07	Shut-In(1)
92	738.47	123.51	End Shut-In(1)
92	20.91	123.35	Open To Flow (2)
122	21.35	124.59	Shut-In(2)
185	721.96	126.53	End Shut-In(2)
186	2121.49	127.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100% W/ oil spots	0.21

Gas Rates

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

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66011 **DST#: 1**

Test Start: 2020.02.23 @ 13:20:00

GENERAL INFORMATION:

Formation: **Lansing A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:52:40
Time Test Ended: 21:22:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shaw n Wheelbarger
Unit No: 76

Interval: 4260.00 ft (KB) To 4355.00 ft (KB) (TVD)
Total Depth: 4355.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

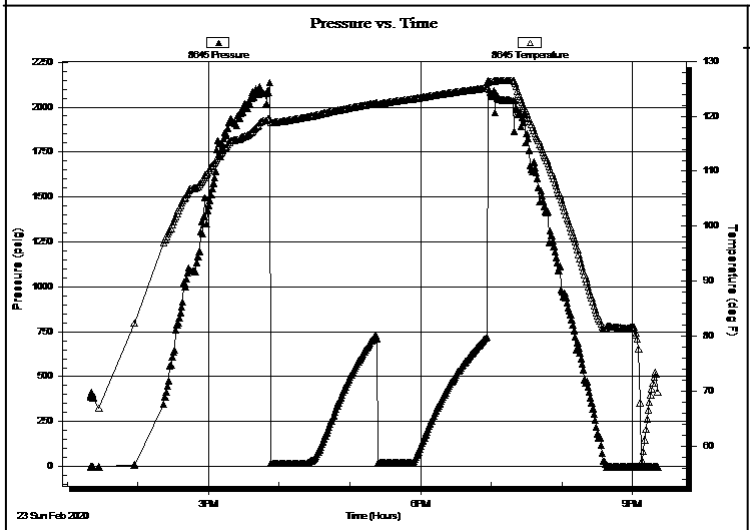
Reference Elevations: 3410.00 ft (KB)
3402.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8645

Press@RunDepth: psig @ ft (KB)
Start Date: 2020.02.23 End Date: 2020.02.23
Start Time: 13:20:01 End Time: 21:21:50

Capacity: 8000.00 psig
Last Calib.: 2020.02.23
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Surface blow @ open built to 1/4" in 9 min declined to surface blow
60-ISI-No blow back
30-FF-No blow
60-FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100% W/ oil spots	0.21

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66011 **DST#: 1**

Test Start: 2020.02.23 @ 13:20:00

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:	ppm
Viscosity:	65.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100% W/ oil spots	0.210

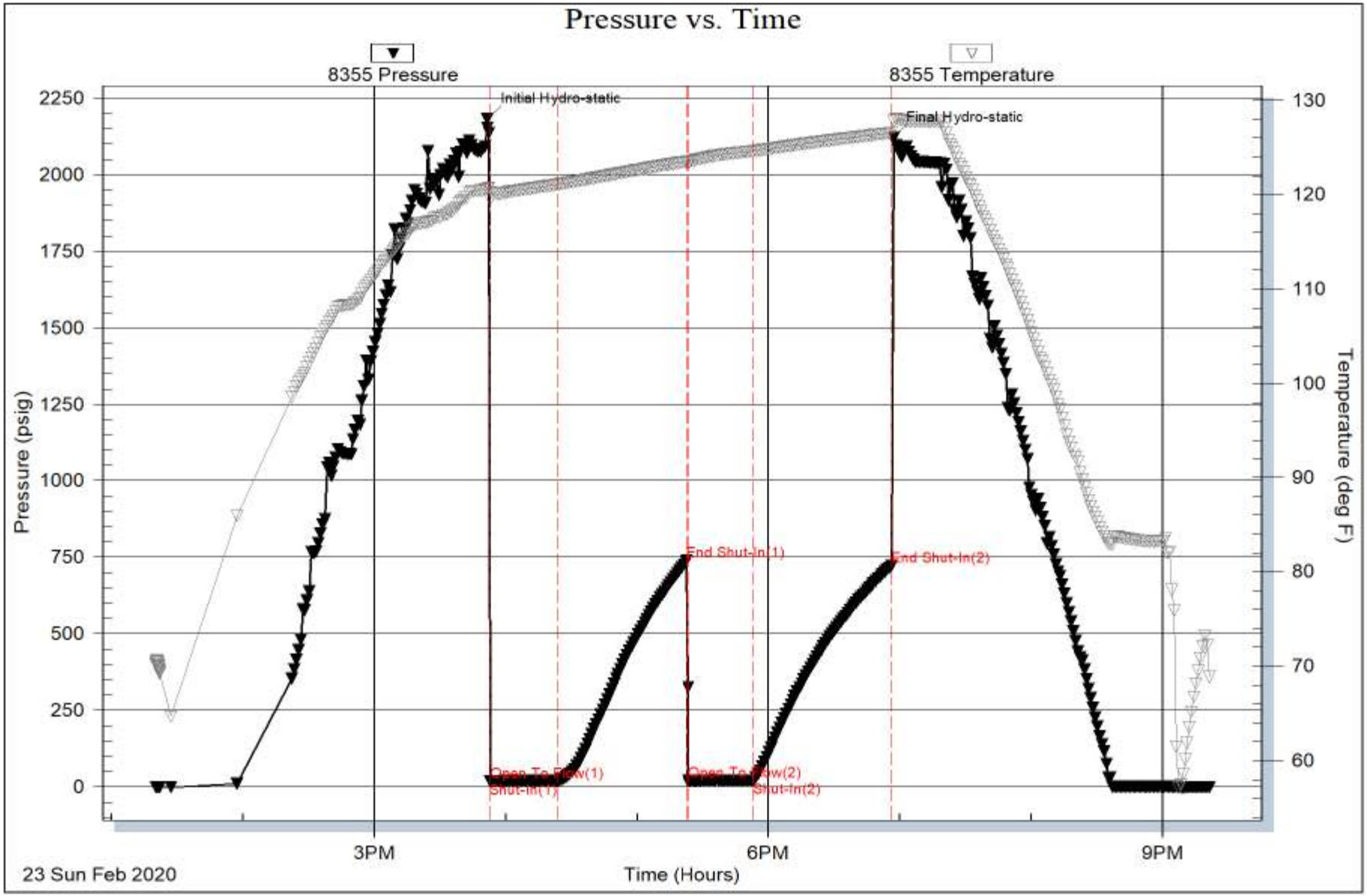
Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

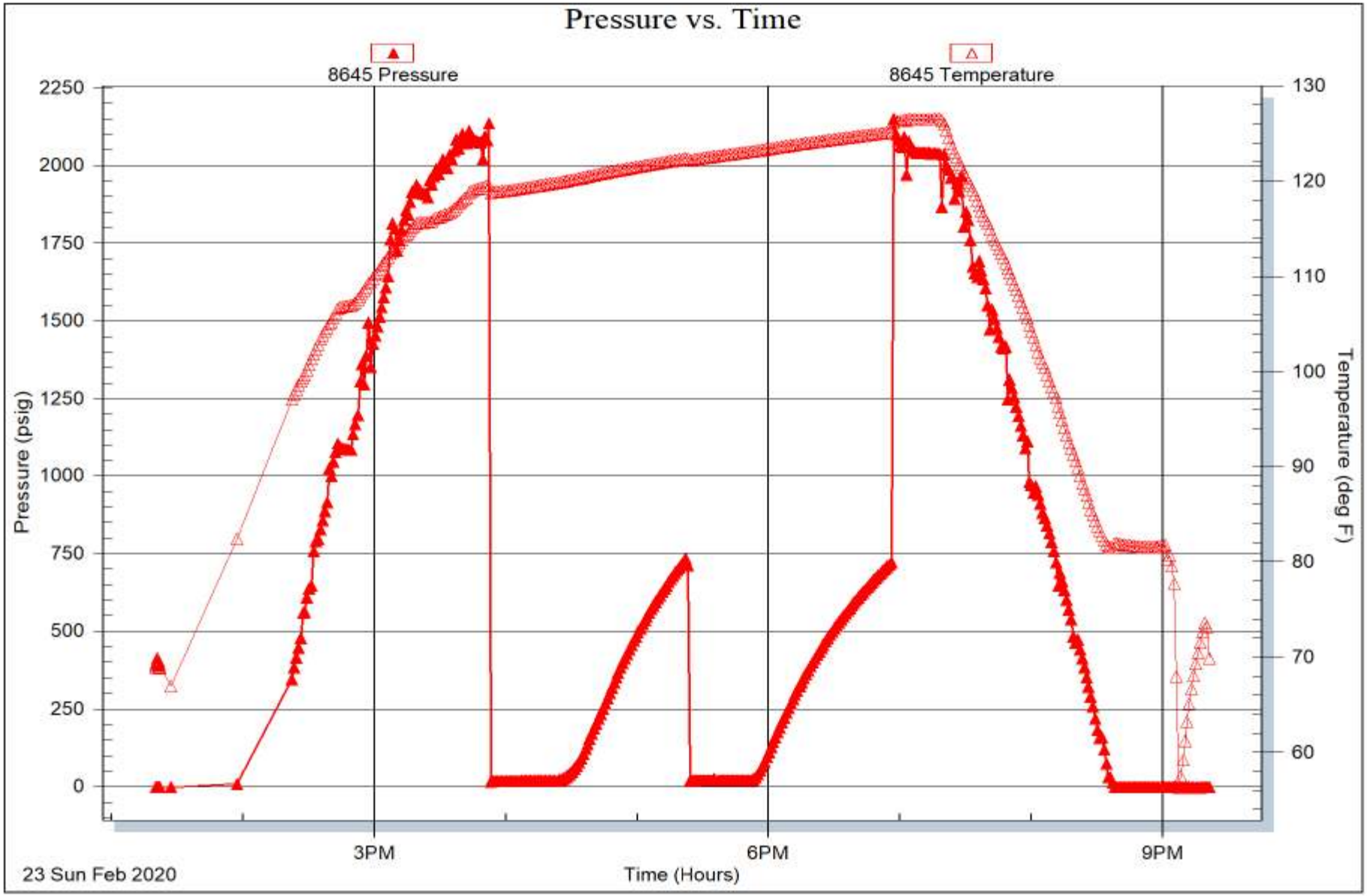
Recovery Comments:

Serial #: 8355 Berexco LLC Hickert #1-10 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66011 Printed: 2020.02.23 @ 22:04:59

Serial #: 8645 Berexco LLC Hickert #1-10 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66011 Printed: 2020.02.23 @ 22:04:59

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66012 **DST#: 2**

Test Start: 2020.02.24 @ 13:26:00

GENERAL INFORMATION:

Formation: **Lansing B&C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:50:10
Time Test Ended: 22:48:40

Test Type: Conventional Bottom Hole (Reset)
Tester: Shaw n Wheelbarger
Unit No: 76

Interval: 4330.00 ft (KB) To 4450.00 ft (KB) (TVD)
Total Depth: 4450.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

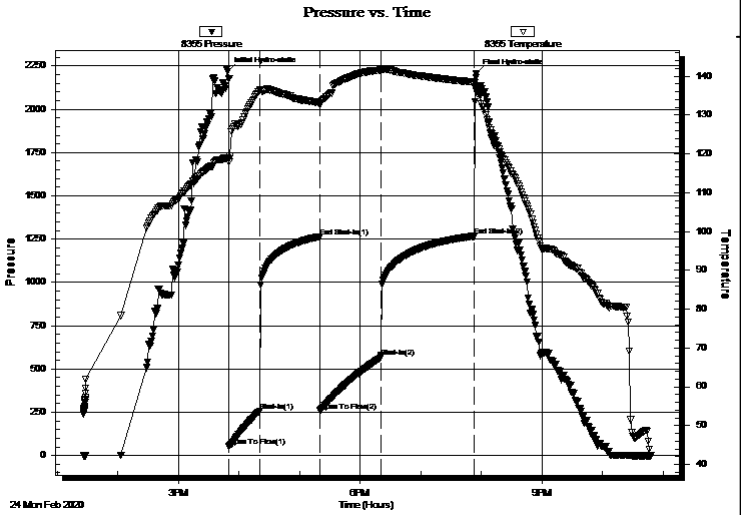
Reference Elevations: 3410.00 ft (KB)
3402.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8355

Press@RunDepth: 567.45 psig @ ft (KB)
Start Date: 2020.02.24 End Date: 2020.02.24
Start Time: 13:26:01 End Time: 22:48:40

Capacity: 8000.00 psig
Last Calib.: 2020.02.24
Time On Btm: 2020.02.24 @ 15:48:50
Time Off Btm: 2020.02.24 @ 19:54:50

TEST COMMENT: 30-IF-1" Blow @ open BOB in 6 min 30 sec built to 38"
60-ISI-No blow back
60-FF-BOB in 9 min 30 sec blow built to 44 3/4"
90-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2216.34	118.93	Initial Hydro-static
2	53.78	117.99	Open To Flow (1)
32	257.01	136.49	Shut-In(1)
91	1264.27	133.22	End Shut-In(1)
92	258.77	132.61	Open To Flow (2)
152	567.45	141.60	Shut-In(2)
245	1266.54	138.48	End Shut-In(2)
247	2204.36	136.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
376.00	SMW 94%W, 6%M	5.27
626.00	MW 53%W, 47%M	8.78
219.00	OSM 5%O, 95%M	3.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66012 **DST#: 2**

Test Start: 2020.02.24 @ 13:26:00

GENERAL INFORMATION:

Formation: **Lansing B&C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:50:10
Time Test Ended: 22:48:40

Test Type: Conventional Bottom Hole (Reset)
Tester: Shaw n Wheelbarger
Unit No: 76

Interval: 4330.00 ft (KB) To 4450.00 ft (KB) (TVD)
Total Depth: 4450.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

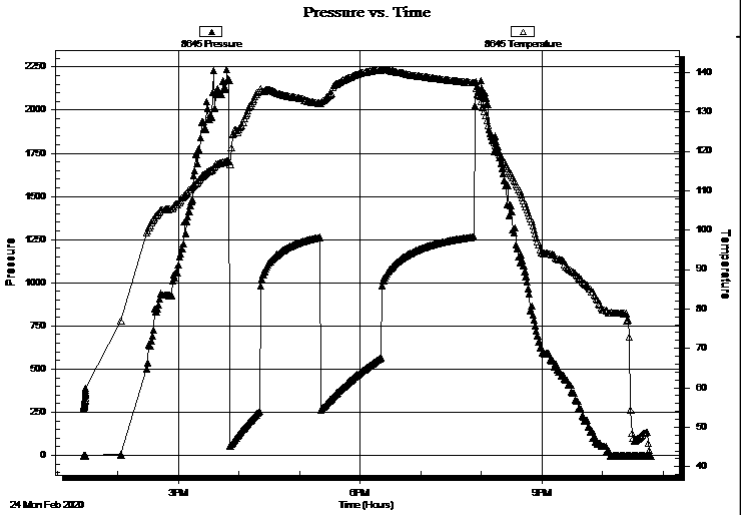
Reference Elevations: 3410.00 ft (KB)
3402.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8645

Press@RunDepth: psig @ ft (KB)
Start Date: 2020.02.24 End Date: 2020.02.24
Start Time: 13:26:01 End Time: 22:48:30

Capacity: 8000.00 psig
Last Calib.: 2020.02.24
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-1" Blow @ open BOB in 6 min 30 sec built to 38"
60-ISI-No blow back
60-FF-BOB in 9 min 30 sec blow built to 44 3/4"
90-FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
376.00	SMW 94%W, 6%M	5.27
626.00	MW 53%W, 47%M	8.78
219.00	OSM 5%O, 95%M	3.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66012 **DST#: 2**

Test Start: 2020.02.24 @ 13:26:00

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:	30000 ppm
Viscosity:	73.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.40 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
376.00	SMW 94%W, 6%M	5.274
626.00	MW 53%W, 47%M	8.781
219.00	OSM 5%O, 95%M	3.072

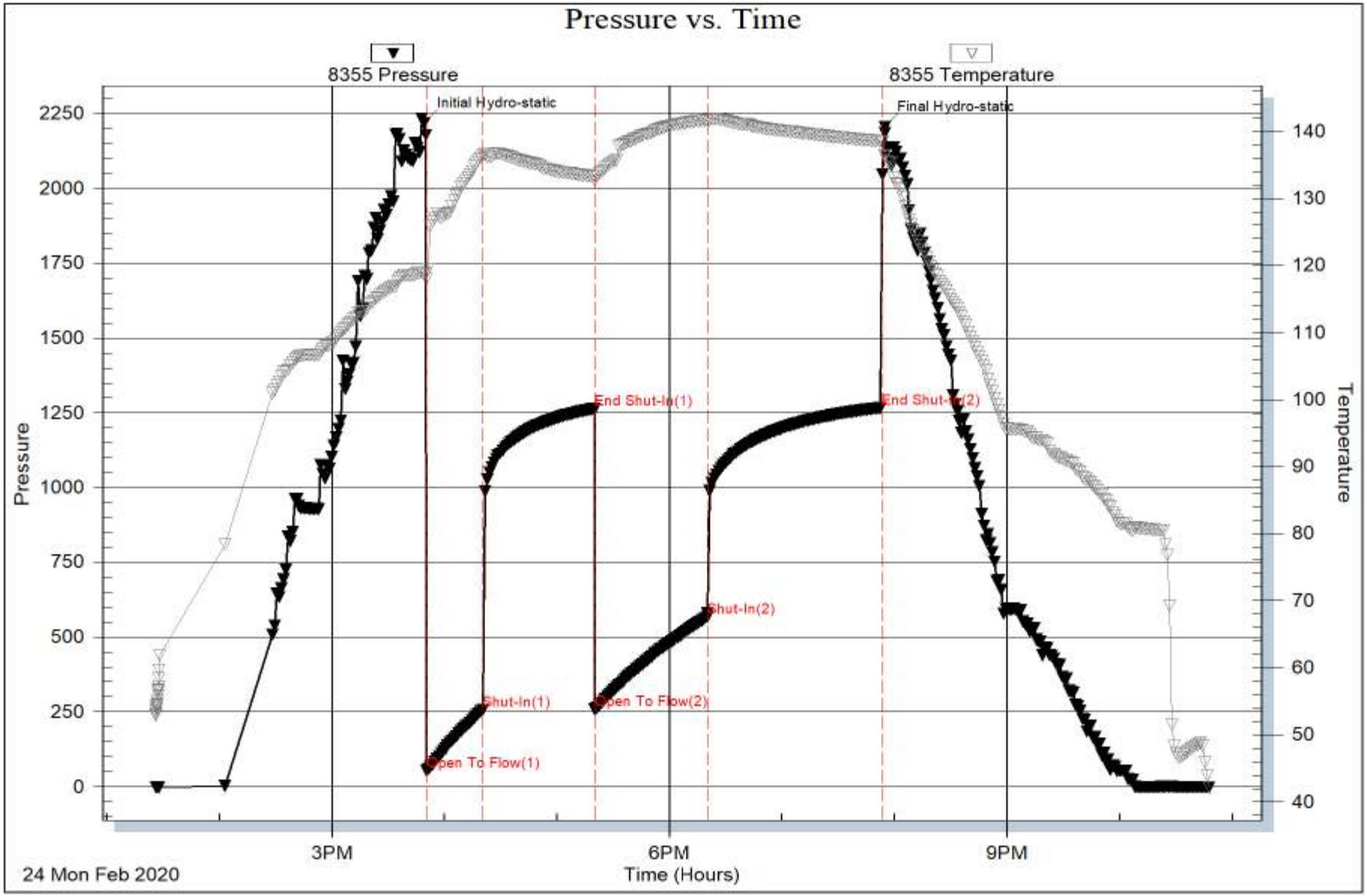
Total Length: 1221.00 ft Total Volume: 17.127 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

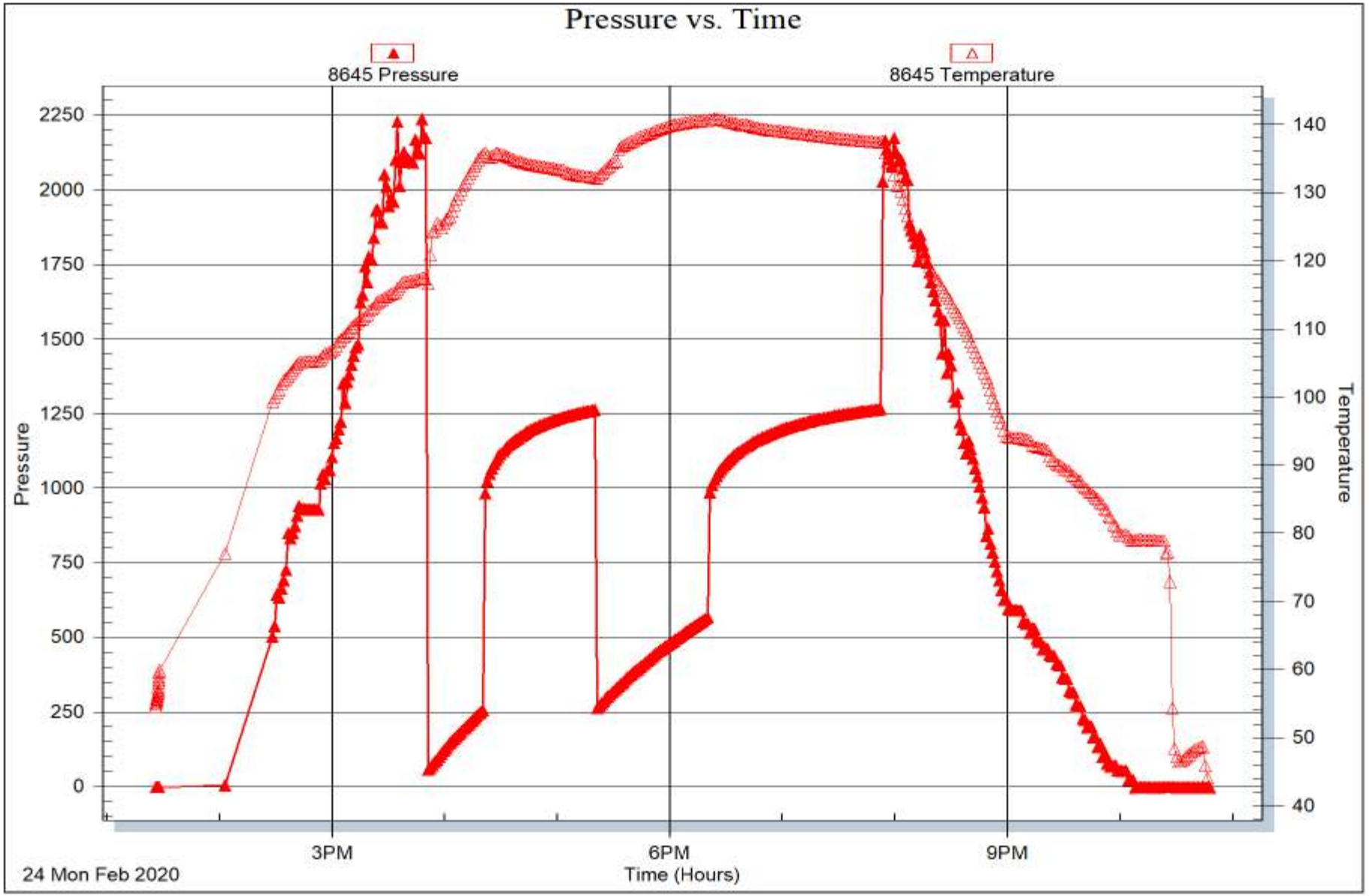
Recovery Comments: RW .576 @ 32.8 Deg F Chlorides 30000 PPM

Serial #: 8355 Berexco LLC Hickert #1-10 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 66012 Printed: 2020.02.25 @ 07:32:06

Serial #: 8645 Berexco LLC Hickert #1-10 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 66012 Printed: 2020.02.25 @ 07:32:06

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66013 **DST#: 3**

Test Start: 2020.02.25 @ 15:01:00

GENERAL INFORMATION:

Formation: **Lansing D&E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:30:40
Time Test Ended: 23:39:49

Test Type: Conventional Bottom Hole (Reset)
Tester: Shaw n Wheelbarger
Unit No: 76

Interval: 4448.00 ft (KB) To 4545.00 ft (KB) (TVD)
Total Depth: 4545.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

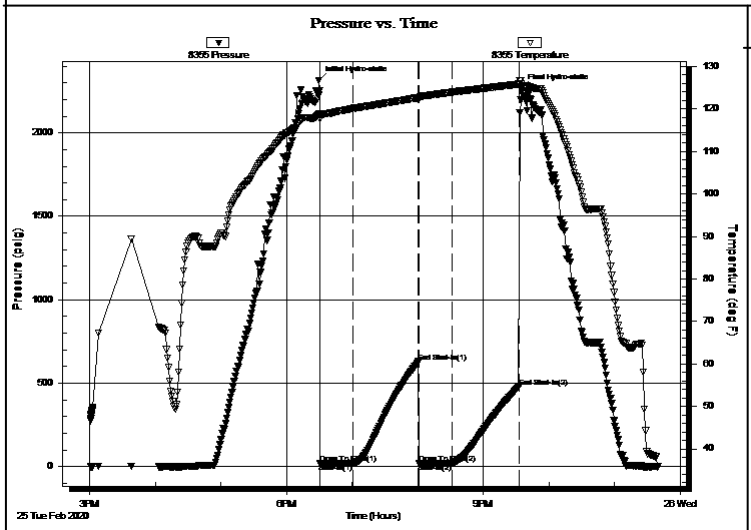
Reference Elevations: 3410.00 ft (KB)
3402.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8355

Press@RunDepth: 19.57 psig @ ft (KB)
Start Date: 2020.02.25 End Date: 2020.02.25
Start Time: 15:01:01 End Time: 23:39:49

Capacity: 8000.00 psig
Last Calib.: 2020.02.25
Time On Btm: 2020.02.25 @ 18:29:20
Time Off Btm: 2020.02.25 @ 21:34:30

TEST COMMENT: 30-IF-1/4" Blow @ open built to 1" in 12 min 30 sec declined to 1/2"
60-ISI-No blow back
30-FF-No blow
60-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2314.79	118.68	Initial Hydro-static
2	18.25	117.69	Open To Flow (1)
32	17.53	120.13	Shut-In(1)
92	627.95	122.68	End Shut-In(1)
92	20.57	122.52	Open To Flow (2)
122	19.57	123.98	Shut-In(2)
184	477.07	125.87	End Shut-In(2)
186	2264.97	125.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100% W/ oil spots in tool	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66013 **DST#: 3**

Test Start: 2020.02.25 @ 15:01:00

GENERAL INFORMATION:

Formation: **Lansing D&E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:30:40
Time Test Ended: 23:39:49

Test Type: Conventional Bottom Hole (Reset)
Tester: Shaw n Wheelbarger
Unit No: 76

Interval: 4448.00 ft (KB) To 4545.00 ft (KB) (TVD)
Total Depth: 4545.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

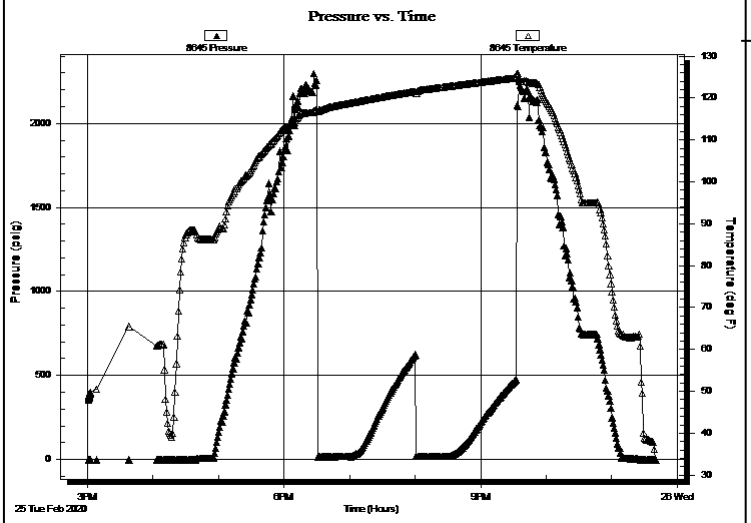
Reference Elevations: 3410.00 ft (KB)
3402.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8645

Press@RunDepth: psig @ ft (KB)
Start Date: 2020.02.25 End Date: 2020.02.25
Start Time: 15:01:01 End Time: 23:40:10

Capacity: 8000.00 psig
Last Calib.: 2020.02.25
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-1/4" Blow @ open built to 1" in 12 min 30 sec declined to 1/2"
60-ISI-No blow back
30-FF-No blow
60-FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100% W/ oil spots in tool	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66013 **DST#: 3**

Test Start: 2020.02.25 @ 15:01:00

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:	64.00 sec/qt	Cushion Volume:	bbl		
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 100% W/ oil spots in tool	0.210

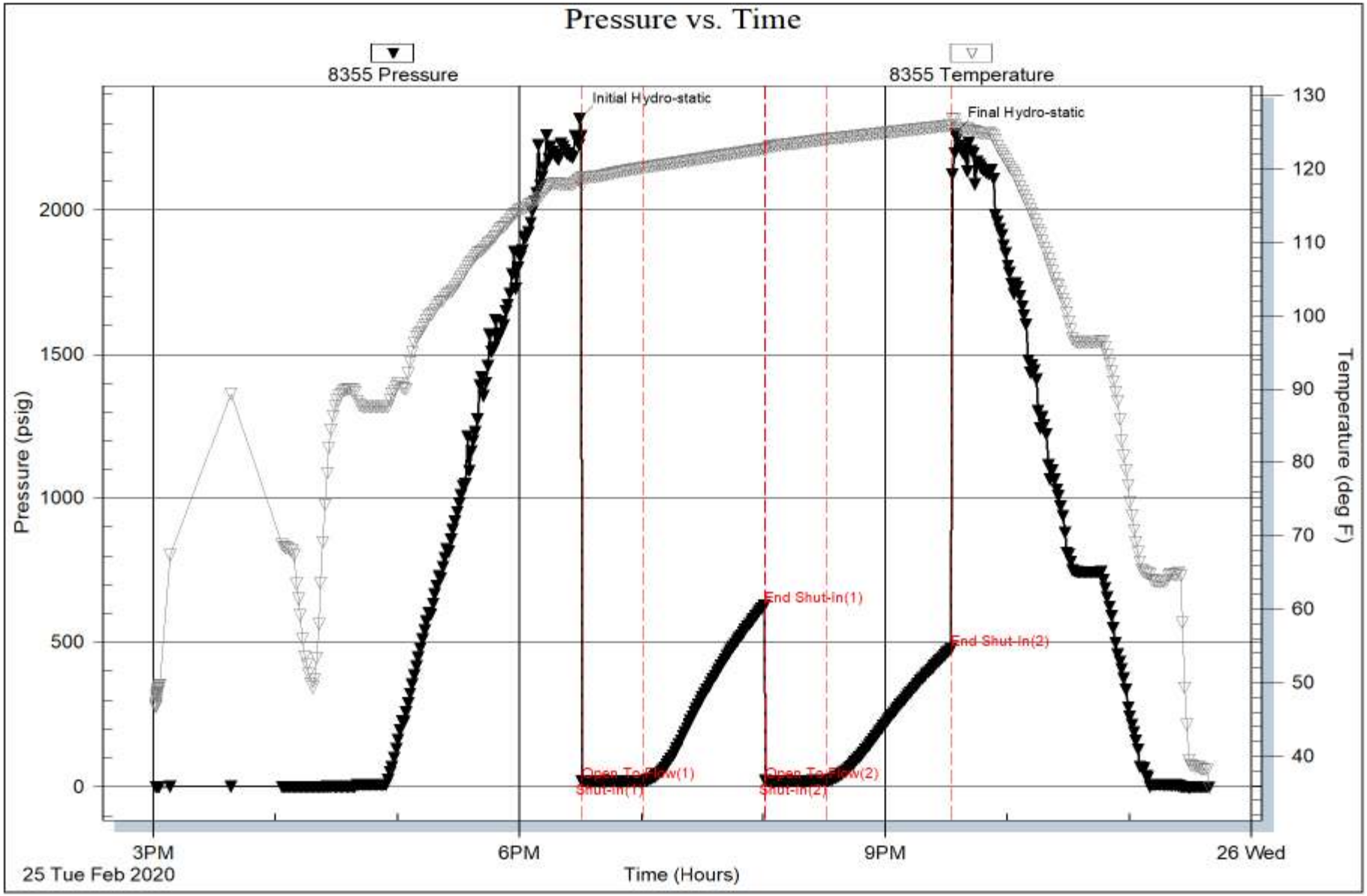
Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

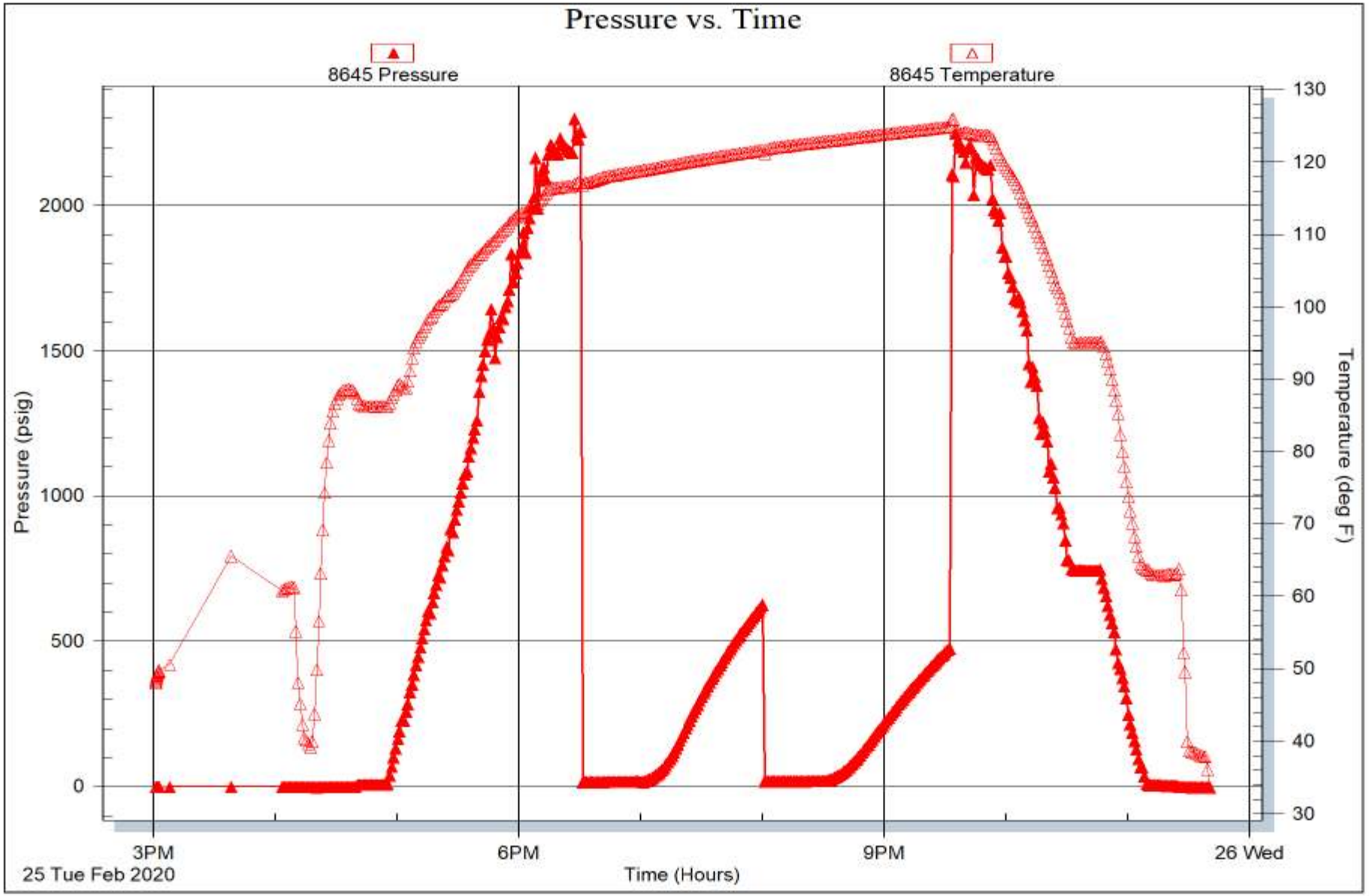
Recovery Comments:

Serial #: 8355 Berexco LLC Hickert #1-10 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 66013 Printed: 2020.02.26 @ 07:30:22

Serial #: 8645 Berexco LLC Hickert #1-10 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 66013 Printed: 2020.02.26 @ 07:30:22

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66014 **DST#: 4**

Test Start: 2020.02.27 @ 13:44:00

GENERAL INFORMATION:

Formation: **Pawnee Ft Scott Cher**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:13:30
Time Test Ended: 22:53:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Shaw n Wheelbarger
Unit No: 76

Interval: 4645.00 ft (KB) To 4820.00 ft (KB) (TVD)
Total Depth: 4820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

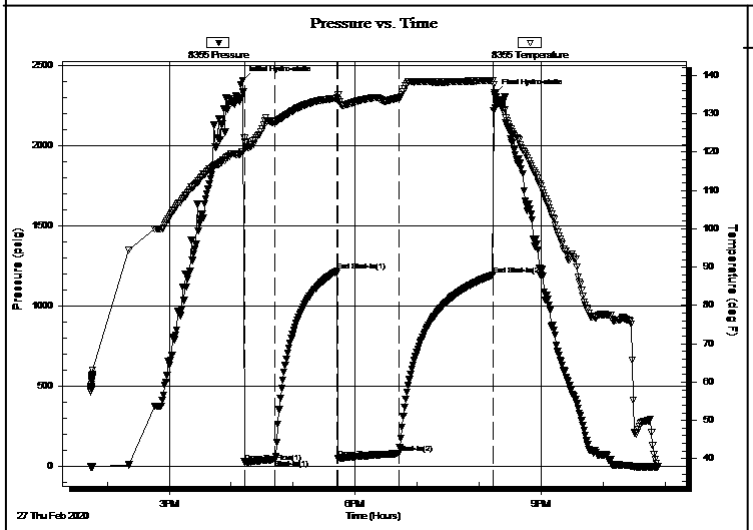
Reference Elevations: 3410.00 ft (KB)
3402.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8355

Press@RunDepth: 81.51 psig @ ft (KB)
Start Date: 2020.02.27 End Date: 2020.02.27
Start Time: 13:44:01 End Time: 22:53:00

Capacity: 8000.00 psig
Last Calib.: 2020.02.27
Time On Btm: 2020.02.27 @ 16:11:00
Time Off Btm: 2020.02.27 @ 20:15:09

TEST COMMENT: 30-IF-1" Blow @ open built to 4 1/2"
60-ISI-No blow back
60-FF-Blow built to 3"
90-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2409.13	120.16	Initial Hydro-static
3	26.69	122.57	Open To Flow (1)
32	44.51	127.82	Shut-In(1)
92	1218.86	134.04	End Shut-In(1)
92	49.02	133.56	Open To Flow (2)
152	81.51	134.19	Shut-In(2)
243	1194.57	138.70	End Shut-In(2)
245	2329.93	135.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
147.00	WSOSM 2%O, 34%W, 64%M	2.06
10.00	Muddy Oil 95%O, 5%M	0.14

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66014 **DST#: 4**

Test Start: 2020.02.27 @ 13:44:00

GENERAL INFORMATION:

Formation: **Pawnee Ft Scott Cher**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:13:30
Time Test Ended: 22:53:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Shaw n Wheelbarger
Unit No: 76

Interval: 4645.00 ft (KB) To 4820.00 ft (KB) (TVD)
Total Depth: 4820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

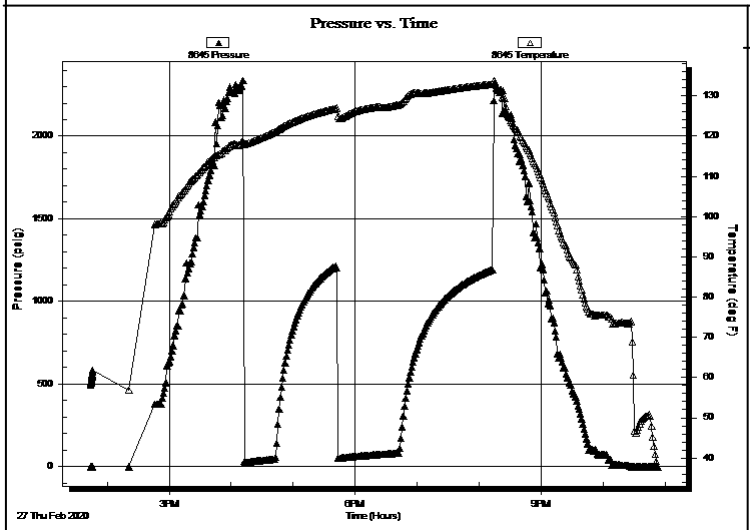
Reference Elevations: 3410.00 ft (KB)
3402.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8645

Press@RunDepth: psig @ ft (KB)
Start Date: 2020.02.27 End Date: 2020.02.27
Start Time: 13:44:01 End Time: 22:52:49

Capacity: 8000.00 psig
Last Calib.: 2020.02.27
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-1" Blow @ open built to 4 1/2"
60-ISI-No blow back
60-FF-Blow built to 3"
90-FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
147.00	WSOSM 2%O, 34%W, 64%M	2.06
10.00	Muddy Oil 95%O, 5%M	0.14

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

2020 N Bramblew ood Wichita KS 67202

ATTN: Bryan Bynog

10/3s/38w Cheyenne KS

Hickert #1-10

Job Ticket: 66014 **DST#: 4**

Test Start: 2020.02.27 @ 13:44:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	40 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	17000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1100.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

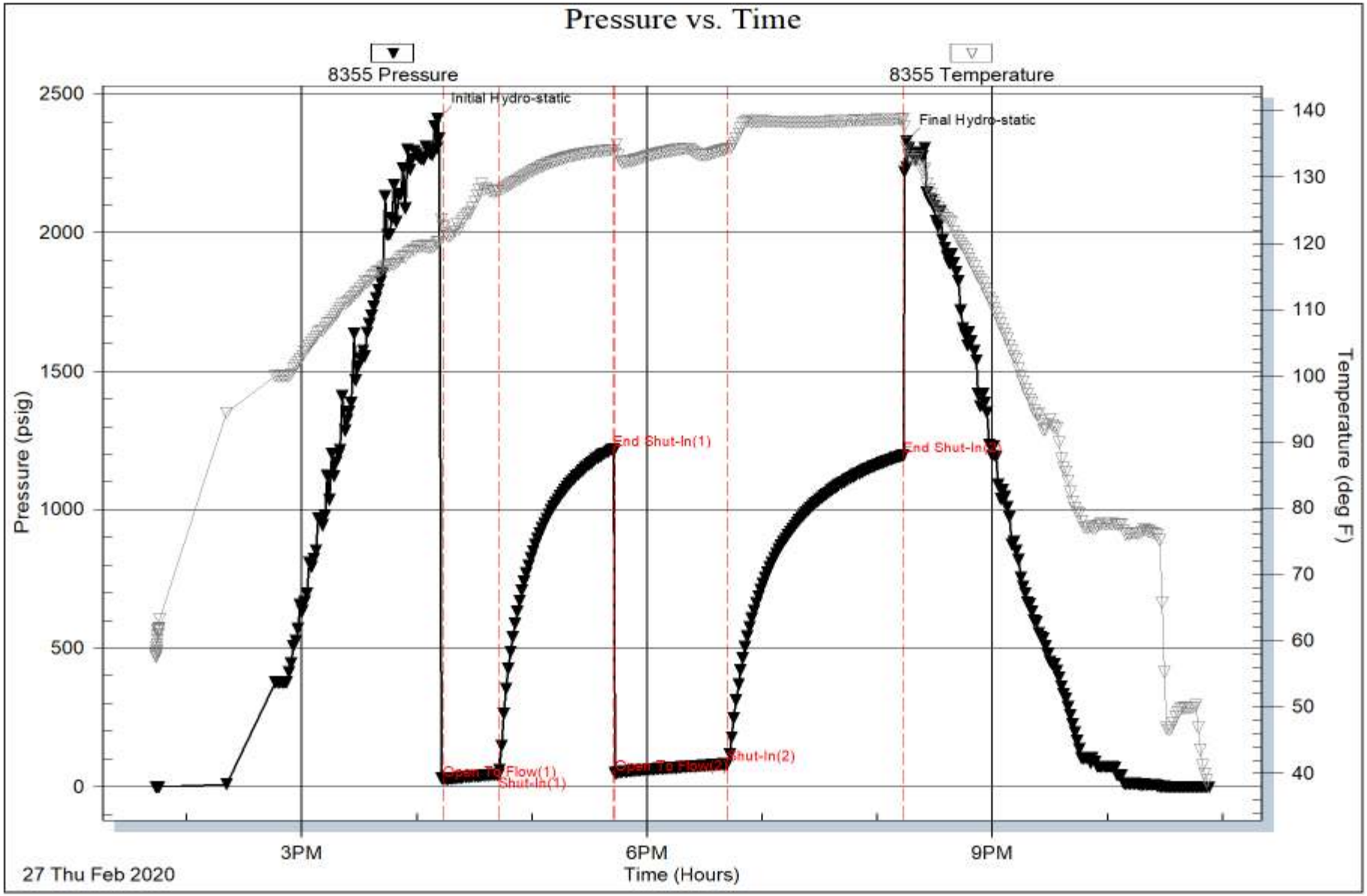
Length ft	Description	Volume bbl
147.00	WSOSM 2%O, 34%W, 64%M	2.062
10.00	Muddy Oil 95%O, 5%M	0.140

Total Length: 157.00 ft Total Volume: 2.202 bbl

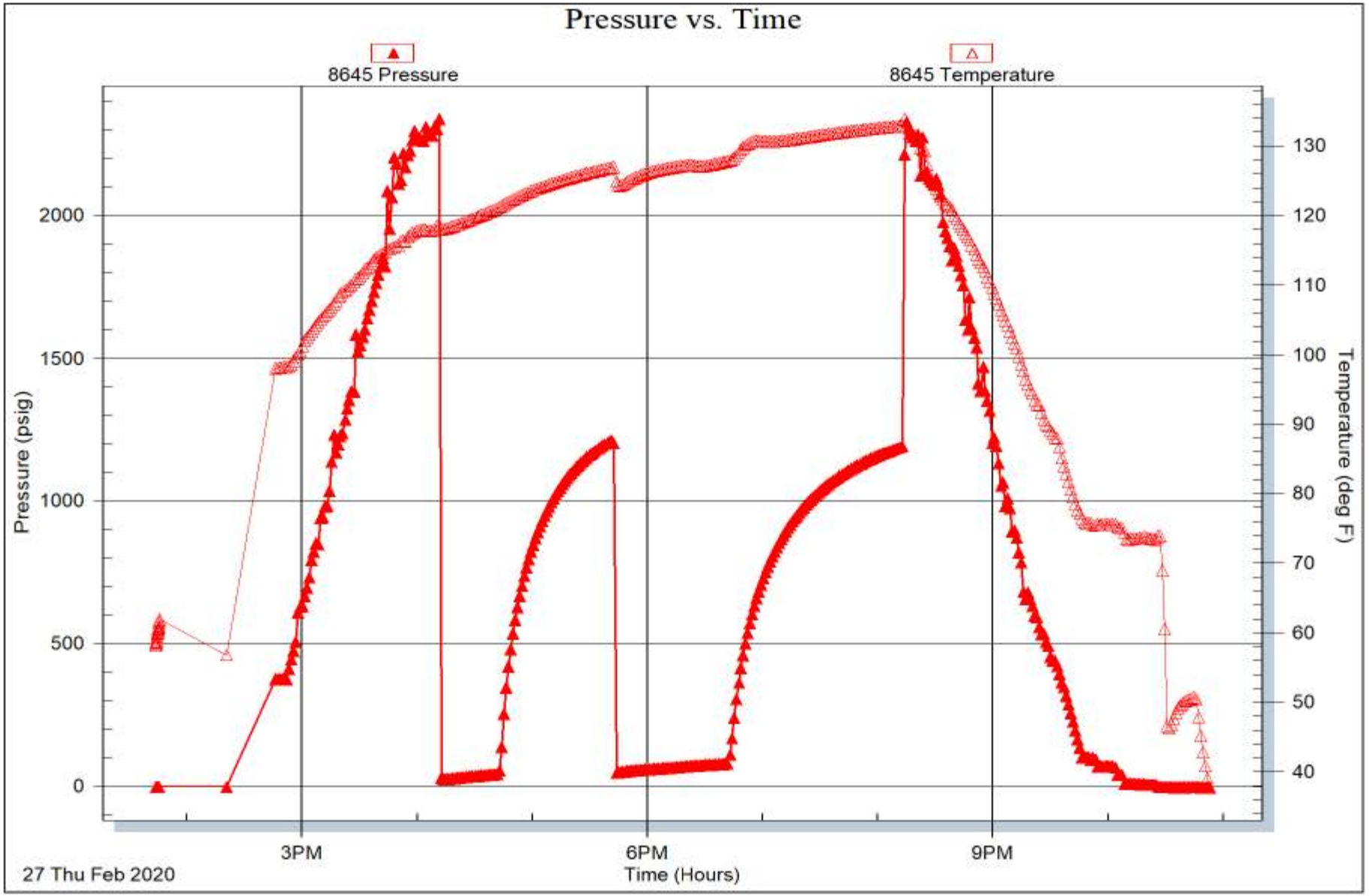
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Oil API 38 @ 32 Deg F adjusted to 40 @ 60 Deg F
RW .922 @ 27 Deg F Chlorides 17000 PPM


Pressure vs. Time
8355 Pressure
8355 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Shut-In(1)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2500
2000
1500
1000
500
0
140
130
120
110
100
90
80
70
60
50
40
3PM
6PM
9PM
27 Thu Feb 2020
Time (Hours)

Serial #: 8645 Berexco LLC Hickert #1-10 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 66014 Printed: 2020.02.28 @ 07:21:49

LITHOLOGY STRIP LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	HICKERT #1-10
Well Id:	
Location:	NWSW SECTION 10-3S-38W CHEYENNE COUNTY, KANSAS
License Number:	15-023-21537
Region:	MID-CONTINENT
Spud Date:	2-15-2020
Drilling Completed:	2-29-2020
Surface Coordinates:	1980' FSL & 660' FWL
Bottom Hole Coordinates:	
Ground Elevation (ft):	3402
K.B. Elevation (ft):	3410
Logged Interval (ft):	3600 To: 5055
Total Depth (ft):	5055
Formation:	LKC, PAWNEE, FT SCOTT
Type of Drilling Fluid:	WBM

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

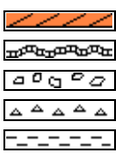
DEPTH	ANGLE
369	.25
3584	.50
4355	1

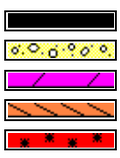
DSTs

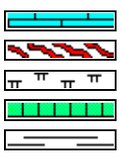
DST#1 4260-4355, DST#2 4330-4450, DST#3 4448-4545, DST#4 4645-4820

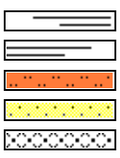
Remarks

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
- 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
- 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

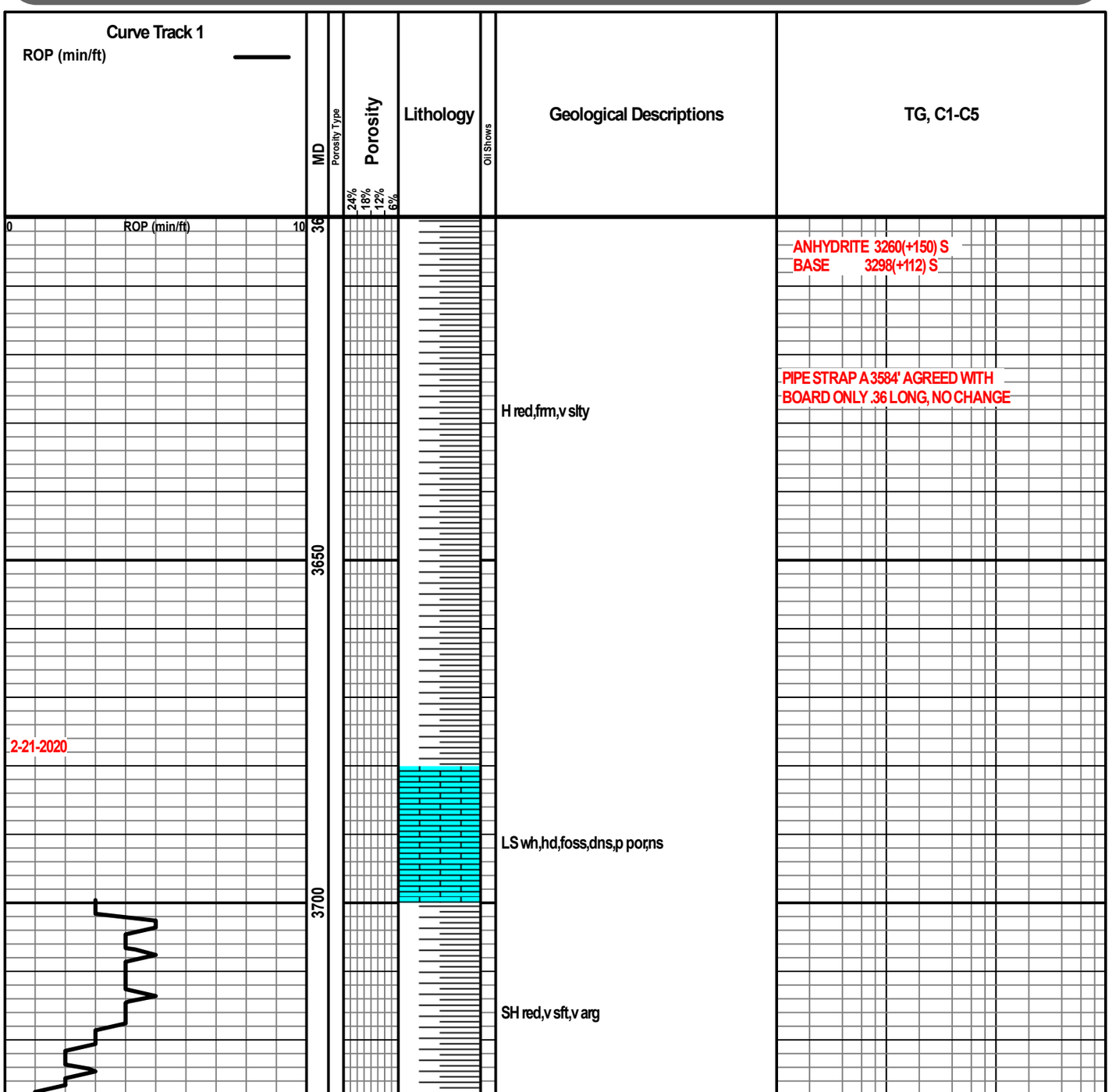
SORTING
- Well
- Moderate
- Poor

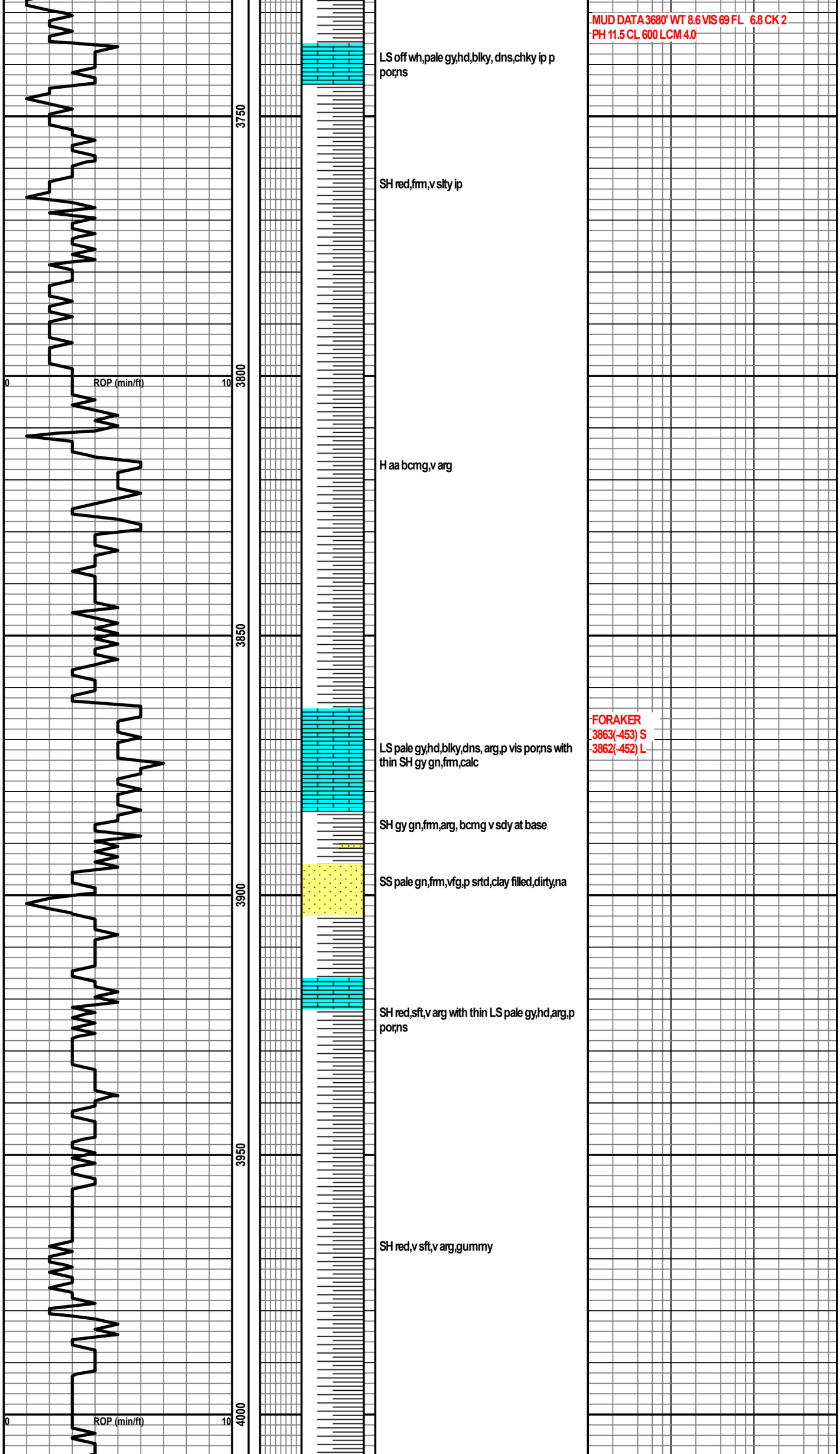
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

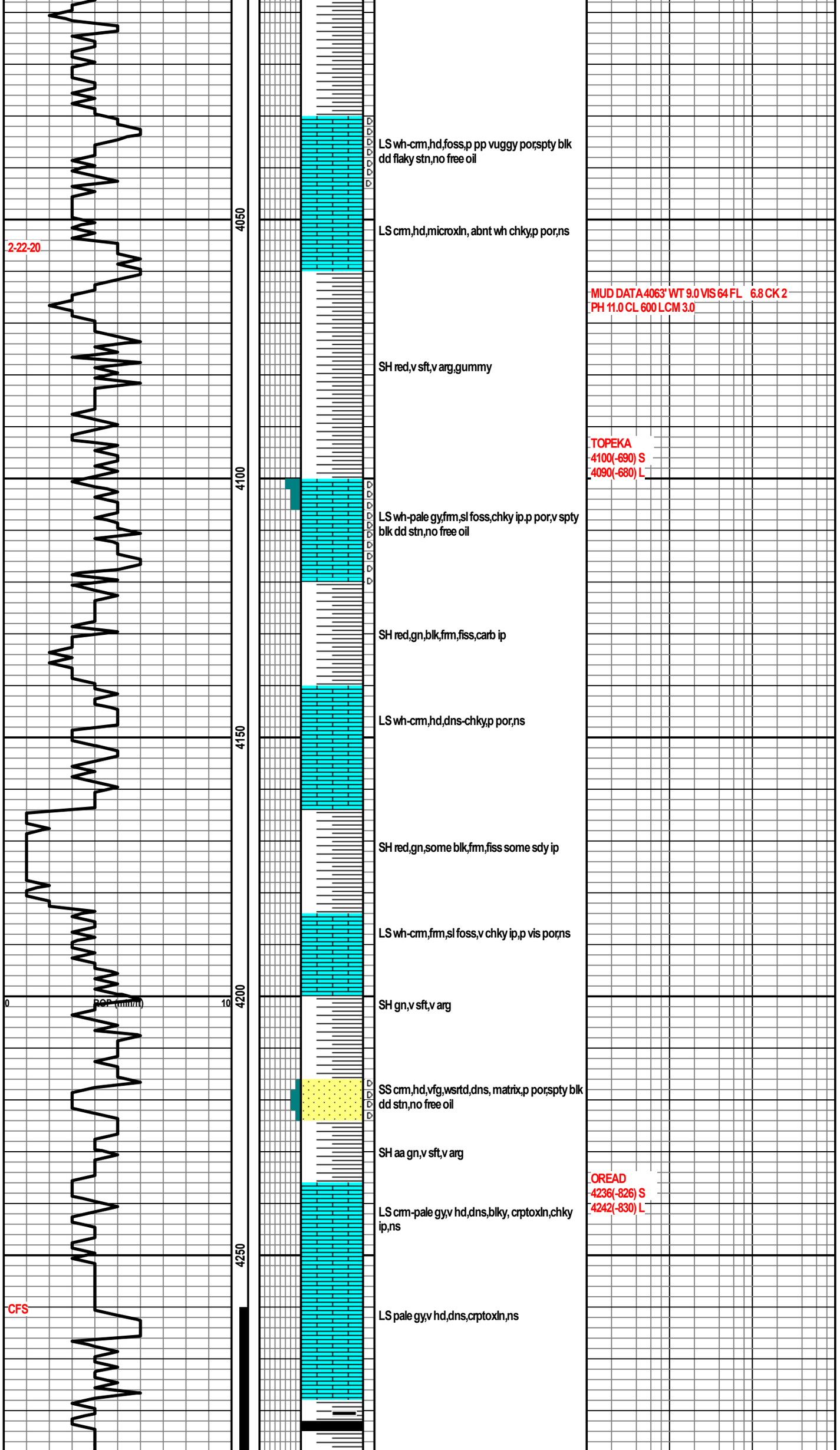
OIL SHOW
- Even
- Spotted
- Ques
- Dead

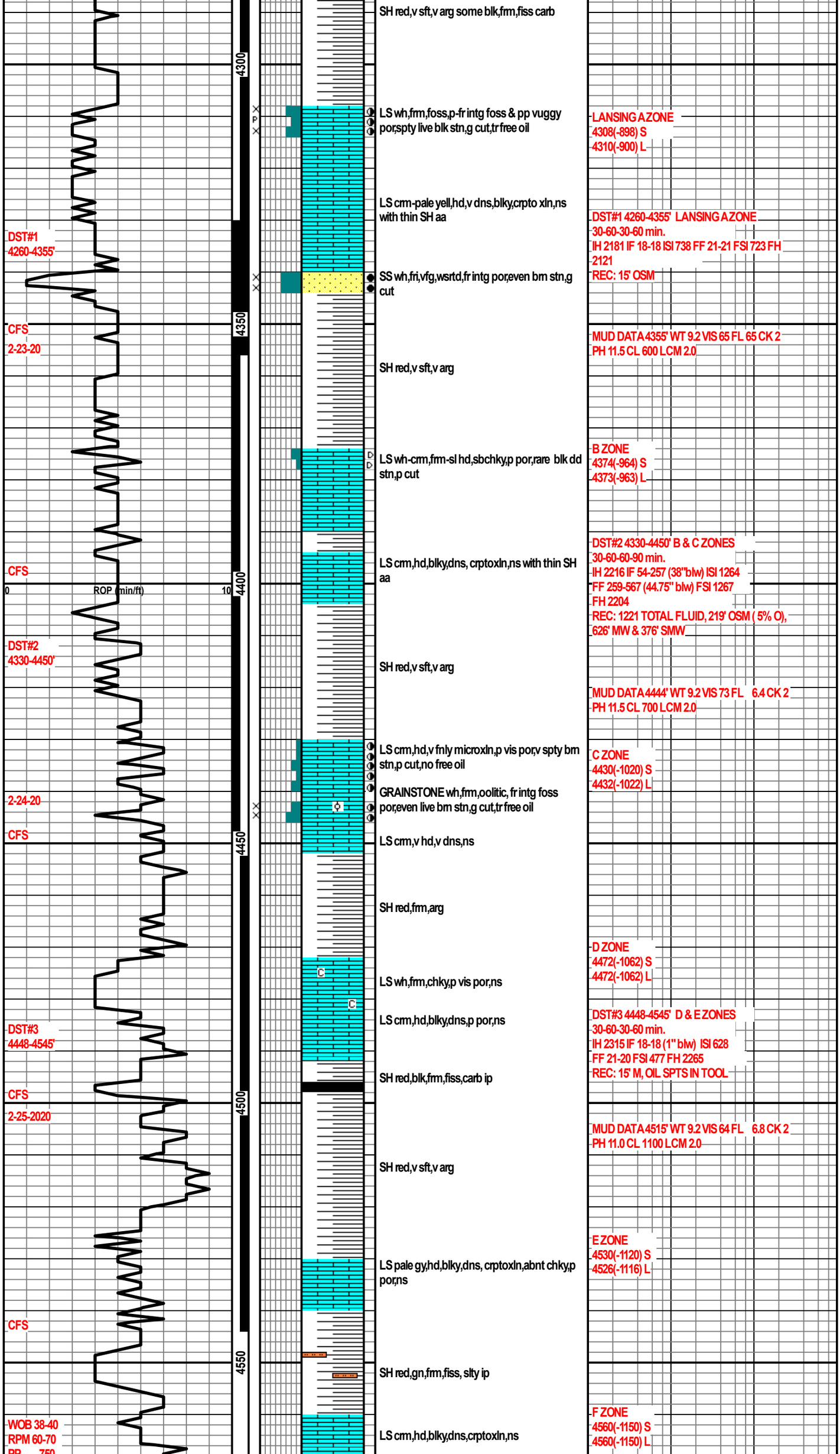
INTERVAL
- Dst
- Dst mis-run

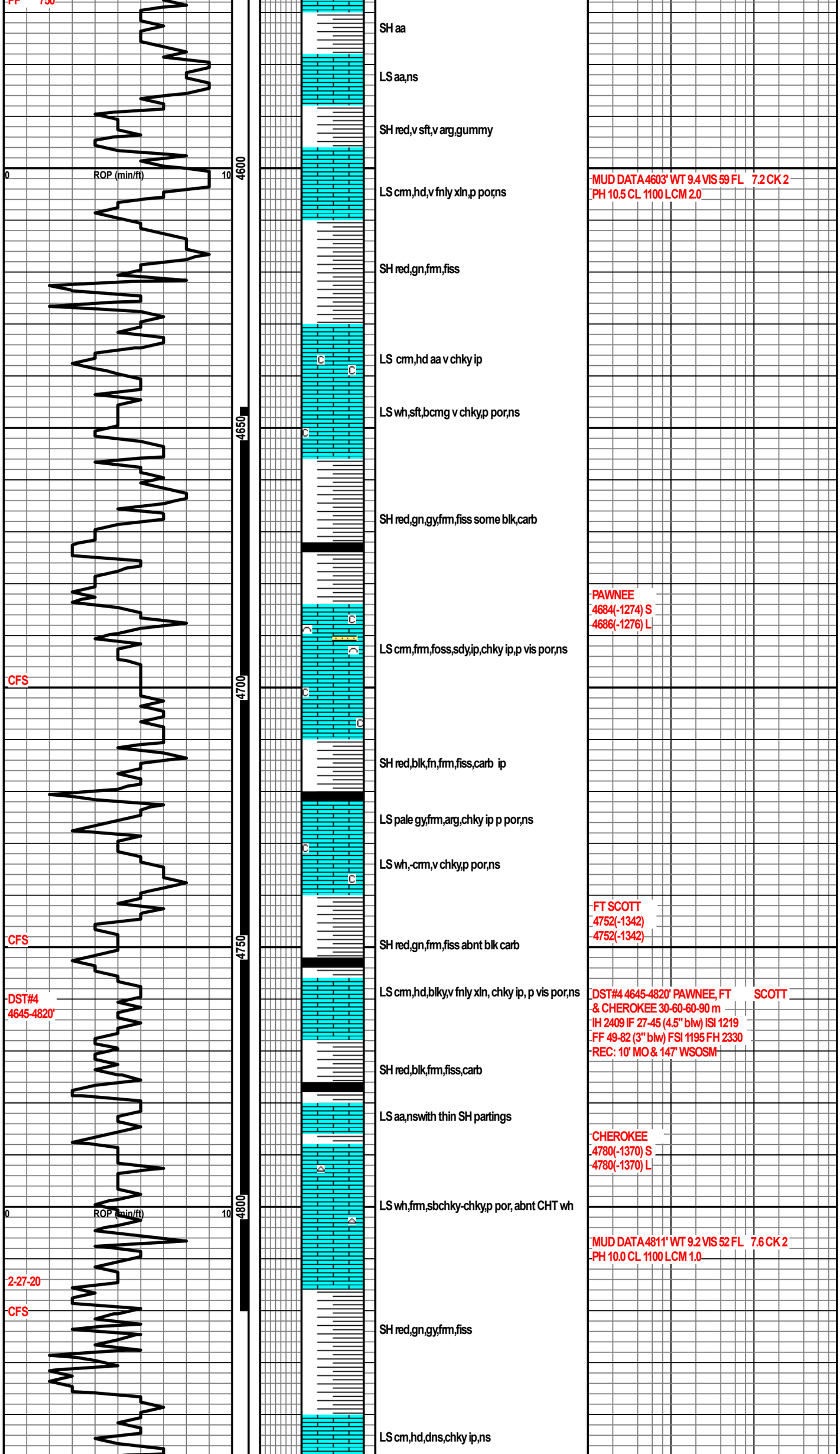
EVENT
- Rft
- Sidewall

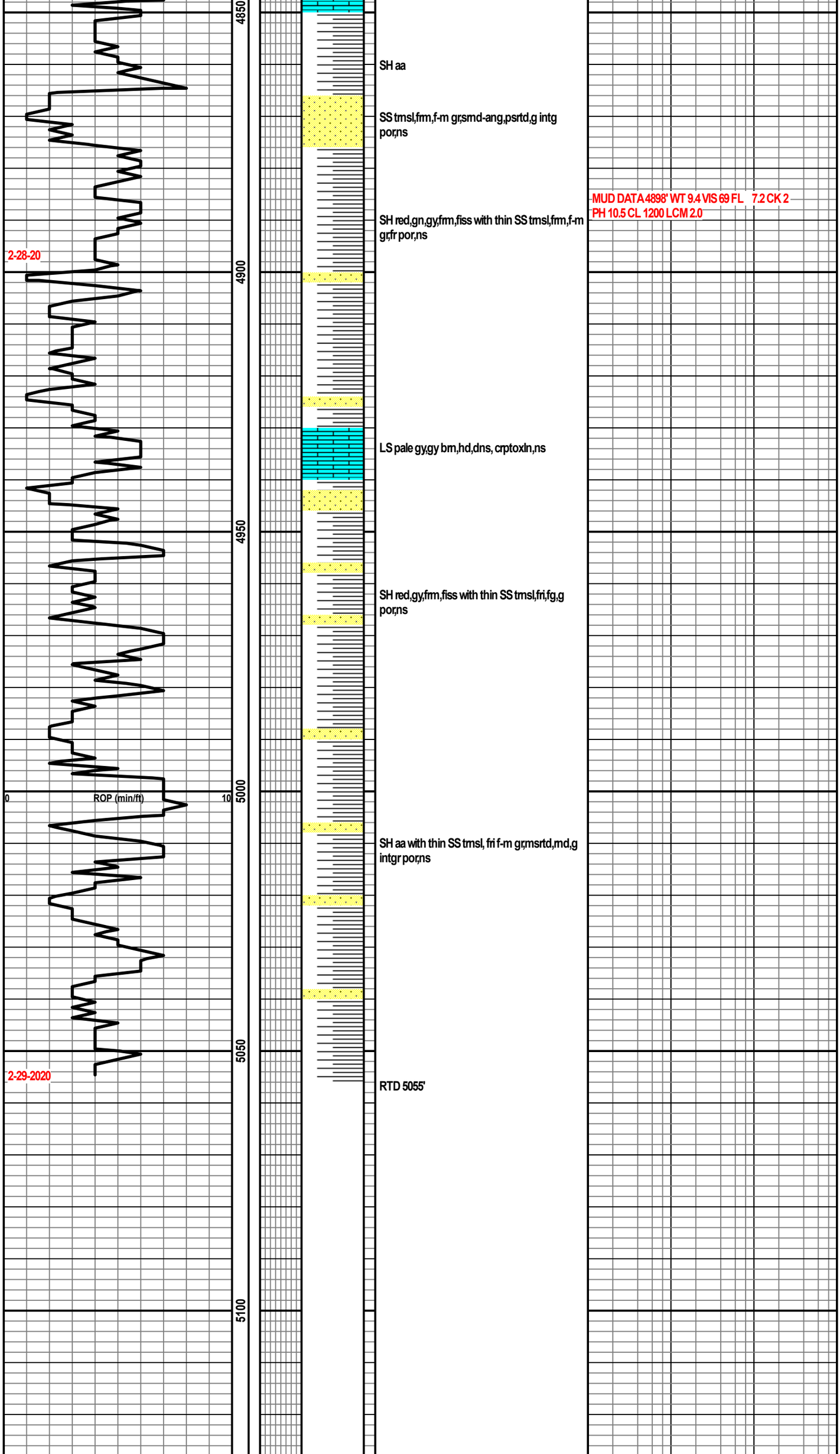



MUD DATA 3680' WT 8.6 VIS 69 FL 6.8 CK 2
PH 11.5 CL 600 LCM 4.0
LS off wh,pale gy,hd,blky, dns,chky ip p por,ns
SH red,frm,v slty ip
H aa bcmg,v arg
FORAKER
3863(-453) S
3862(-452) L
LS pale gy,hd,blky,dns, arg,p vis por,ns with thin SH gy gn,frm,calc
SH gy gn,frm,arg, bcmg v sdy at base
SS pale gn,frm,vfg,p srtd,clay filled,dirty,na
SH red,sft,v arg with thin LS pale gy,hd,arg,p por,ns
SH red,v sft,v arg,gummy
0
ROP (min/ft)
10
0
ROP (min/ft)
10
3750
3800
3850
3900
3950
4000


2-22-20
4050
4100
4150
4200
4250
0
ROP (min/ft)
10
CFS
LS wh-crm,hd,foss,p pp vuggy por,spty blk dd flaky stn,no free oil
LS crm,hd,microxln, abnt wh chky,p por,ns
MUD DATA 4063' WT 9.0 VIS 64 FL 6.8 CK 2 PH 11.0 CL 600 LCM 3.0
SH red,v sft,v arg,gummy
TOPEKA
4100(-690) S
4090(-680) L
LS wh-pale gy,frm,sl foss,chky ip,p por,v spty blk dd stn,no free oil
SH red,gn,blk,frm,fiss,carb ip
LS wh-crm,hd,dns-chky,p por,ns
SH red,gn,some blk,frm,fiss some sdy ip
LS wh-crm,frm,sl foss,v chky ip,p vis por,ns
SH gn,v sft,v arg
SS crm,hd,vfg,wsrtd,dns, matrix,p por,spty blk dd stn,no free oil
SH aa gn,v sft,v arg
OREAD
4236(-826) S
4242(-830) L
LS crm-pale gy,v hd,dns,blky, crptoxln,chky ip,ns
LS pale gy,v hd,dns,crptoxln,ns


4300
4350
4400
4450
4500
4550
DST#1
4260-4355'
CFS
2-23-20
CFS
0
ROP (min/ft)
10
DST#2
4330-4450'
2-24-20
CFS
DST#3
4448-4545'
CFS
2-25-2020
CFS
WOB 38-40
RPM 60-70
SH red,v sft,v arg some blk,frm,fiss carb
LS wh,frm,foss,p-fr intg foss & pp vuggy por,spty live blk stn,g cut,tr free oil
LANSING A ZONE
4308(-898) S
4310(-900) L
LS crm-pale yell,hd,v dns,blky,crpto xln,ns with thin SH aa
DST#1 4260-4355' LANSING A ZONE
30-60-30-60 min.
IH 2181 IF 18-18 ISI 738 FF 21-21 FSI 723 FH 2121
REC: 15' OSM
SS wh,fri,vfg,wsrtd,fr intg por,even brn stn,g cut
MUD DATA 4355' WT 9.2 VIS 65 FL 65 CK 2
PH 11.5 CL 600 LCM 2.0
SH red,v sft,v arg
B ZONE
4374(-964) S
4373(-963) L
LS wh-crm,frm-sl hd,sbchky,p por,rare blk dd stn,p cut
DST#2 4330-4450' B & C ZONES
30-60-60-90 min.
IH 2216 IF 54-257 (38"blw) ISI 1264
FF 259-567 (44.75" blw) FSI 1267
FH 2204
REC: 1221 TOTAL FLUID, 219' OSM (5% O), 626' MW & 376' SMW
LS crm,hd,blky,dns, crptoxln,ns with thin SH aa
SH red,v sft,v arg
MUD DATA 4444' WT 9.2 VIS 73 FL 6.4 CK 2
PH 11.5 CL 700 LCM 2.0
LS crm,hd,v fnly microxln,p vis por,v spty brn stn,p cut,no free oil
C ZONE
4430(-1020) S
4432(-1022) L
GRAINSTONE wh,frm,oolitic, fr intg foss por,even live brn stn,g cut,tr free oil
LS crm,v hd,v dns,ns
SH red,frm,arg
D ZONE
4472(-1062) S
4472(-1062) L
LS wh,frm,chky,p vis por,ns
LS crm,hd,blky,dns,p por,ns
DST#3 4448-4545' D & E ZONES
30-60-30-60 min.
IH 2315 IF 18-18 (1" blw) ISI 628
FF 21-20 FSI 477 FH 2265
REC: 15' M, OIL SPTS IN TOOL
SH red,blk,frm,fiss,carb ip
MUD DATA 4515' WT 9.2 VIS 64 FL 6.8 CK 2
PH 11.0 CL 1100 LCM 2.0
SH red,v sft,v arg
E ZONE
4530(-1120) S
4526(-1116) L
LS pale gy,hd,blky,dns, crptoxln,abnt chky,p por,ns
SH red,gn,frm,fiss, slty ip
F ZONE
4560(-1150) S
4560(-1150) L
LS crm,hd,blky,dns,crptoxln,ns


FF 750
0
ROP (min/ft)
10
4600
4650
4700
4750
4800
CFS
CFS
DST#4
4645-4820'
0
ROP (min/ft)
10
2-27-20
CFS
SH aa
LS aa,ns
SH red,v sft,v arg,gummy
LS crm,hd,v fnly xln,p por,ns
SH red,gn,frm,fiss
LS crm,hd aa v chky ip
LS wh,sft,bcmg v chky,p por,ns
SH red,gn,gy,frm,fiss some blk,carb
LS crm,frm,foss,sdy,ip,chky ip,p vis por,ns
SH red,blk,fn,frm,fiss,carb ip
LS pale gy,frm,arg,chky ip p por,ns
LS wh,-crm,v chky,p por,ns
SH red,gn,frm,fiss abnt blk carb
LS crm,hd,blky,v fnly xln, chky ip, p vis por,ns
SH red,blk,frm,fiss,carb
LS aa,nswith thin SH partings
LS wh,frm,sbchky-chky,p por, abnt CHT wh
SH red,gn,gy,frm,fiss
LS crm,hd,dns,chky ip,ns
MUD DATA 4603' WT 9.4 VIS 59 FL 7.2 CK 2
PH 10.5 CL 1100 LCM 2.0
PAWNEE
4684(-1274) S
4686(-1276) L
FT SCOTT
4752(-1342)
4752(-1342)
DST#4 4645-4820' PAWNEE, FT SCOTT
& CHEROKEE 30-60-60-90 m
IH 2409 IF 27-45 (4.5" blw) ISI 1219
FF 49-82 (3" blw) FSI 1195 FH 2330
REC: 10' MO & 147' WSOSM
CHEROKEE
4780(-1370) S
4780(-1370) L
MUD DATA 4811' WT 9.2 VIS 52 FL 7.6 CK 2
PH 10.0 CL 1100 LCM 1.0


4850
4900
4950
5000
5050
5100
0
ROP (min/ft)
10
2-28-20
2-29-2020
SH aa
SS tmsl,frm,f-m gr,smd-ang,psrtd,g intg por,ns
SH red,gn,gy,frm,fiss with thin SS tmsl,frm,f-m gr,fr por,ns
LS pale gy,gy bm,hd,dns, crptoxln,ns
SH red,gy,frm,fiss with thin SS tmsl,fri,fg,g por,ns
SH aa with thin SS tmsl, fri f-m gr,msrtd,md,g intgr por,ns
RTD 5055'
MUD DATA 4898' WT 9.4 VIS 69 FL 7.2 CK 2
PH 10.5 CL 1200 LCM 2.0

5150

00