

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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	MRM 3
Doc ID	1505847

All Electric Logs Run

Sonic
CBL
Radiation Guard
Porosity
Resistivity
Microlog

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	MRM 3
Doc ID	1505847

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	4274	4278			Acidized w/ 1000 gal 15% NEFE
4	4238	4242			Acidized w/ 1000 gal 15% NEFE
4	4118	4124			Acidized w/ 500 gal 15% NEFE
4	4134	4138			Acidized w/ 500 gal 15% NEFE
4	4065	4069			Acidized w/ 1000 gal 15% NEFE
4	4086	4089			



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

Customer:	Berexco LLC	Cement Pump No.:	38750, 19919 8Hrs.	Operator TRK No.:	96816
Address:	2020 N. Bramblewood	Ticket #:	1718 19821 L	Bulk TRK No.:	27808, 19578 Oscar Corey
City, State, Zip:	Wichita, Kansas 67206-1094	Job Type:	Z-42 Cement Two-Stage		
Service District:	1718 - Liberal, Ks.	Well Type:			
Well Name and No.:	MRM #3	Well Location:	15 - 10S - 33W	County:	Thomas
				State:	Kansas

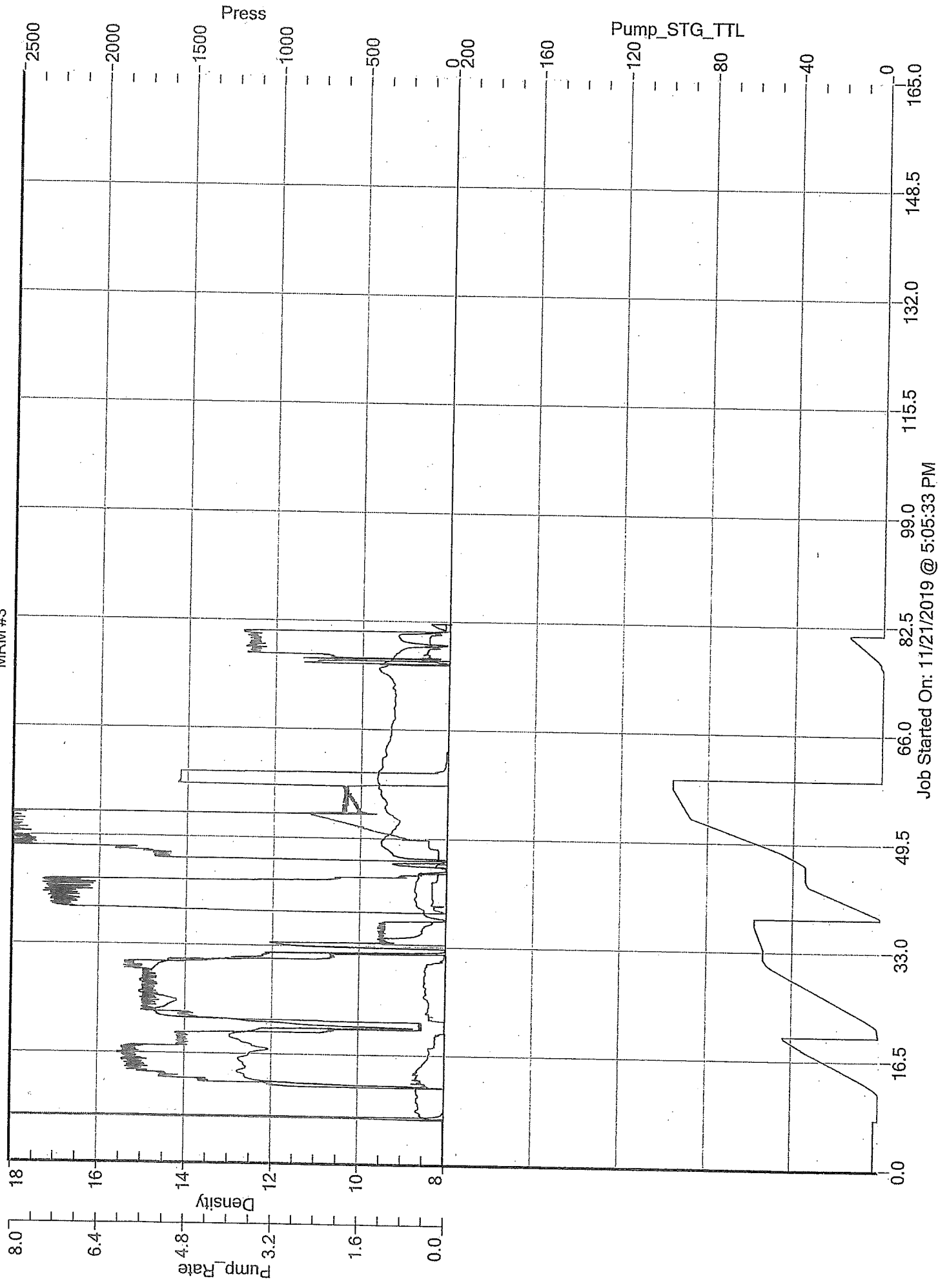
Type of Cmt	Sacks	Additives	Truck Loaded On		
A-Serv Lite	125	1/4# Polyflake	27808, 19578 Oscar	Front	Back
AA2 Cement	200	10% Gypsum, 10% SALT, 6pps Gilsonite, .5% C-17, 1/2# Defoamer	27808, 19578 Corey	Front	Back
A-Serv Lite	525	1/4# Polyflake	38116, 83042 Dustyn	Front	Back
Rat & Mouse	50		38116, 93042	Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	13	1.73	9.08	216.25	TT Man Hours:	100
Tail 1:	15	1.46	6.16	292		
Tail 2:	13	1.73	9.08	908.25		
					# of Men on Job:	5

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
7:00							ON LOCATION & SAFETY MEETING
3:00 PM							RIG TO CIRCULATE
16:55							RIG TO PT
17:00							PRESSURE TEST TO 2800PSI
5:04 PM	4.5	38.5 slurry				140	PUMP 125SX LEAD @ 13#
17:12	4.8	52.0 slurry				90	PUMP 200SX TAIL 1 @ 15#
17:25							SHUTDOWN / DROP PLUG / WP
17:38	7	10				70	DISPLACE W/ 42.8BBLH20
	7	20				80	
	7.3	30				80	
17:46		40					DISPLACE W/ 63.3BBL MUD
	6.1	50				50	
	7.7	60				100	
	8.3	70				320	
	8.1	80				510	
	8.2	90				690	
17:46	8	96				780	SLOW RATE TO 2.0BPM @ 500PSI
	1.9	100				520	
17:51	1.9	106.1				600	LAND PLUG / PRESSURE UP TO 1550PSI
17:53							RELEASE BACK --- FLOAT HELD

Size Hole	7 7/8"	Depth				TYPE	Plug Container	
Size & Wt. Csg.	5 1/2" 15.5#	Depth	4545'	DV Tool	2660'	Packer	Depth	
Landing Press. 1	827.0psi	Landing Press. 2	644.5psi			Retainer	Depth	
Shoe Jt.	84.14'	Type				Perfs	CIBP	

Customer Signature:	Basic Representative:	Daniel Beck
	Basic Signature:	<i>Daniel Beck</i>
	Date of Service:	11/21/2019



Job Started On: 11/21/2019 @ 5:05:33 PM



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 Bramblewood
 Wichita Kansas
 67206+1094
 ATTN: Bryan Bynog

15/10S/33W/Thomas
MRM #3
 Job Ticket: 66263 **DST#: 1**
 Test Start: 2019.11.16 @ 00:27:00

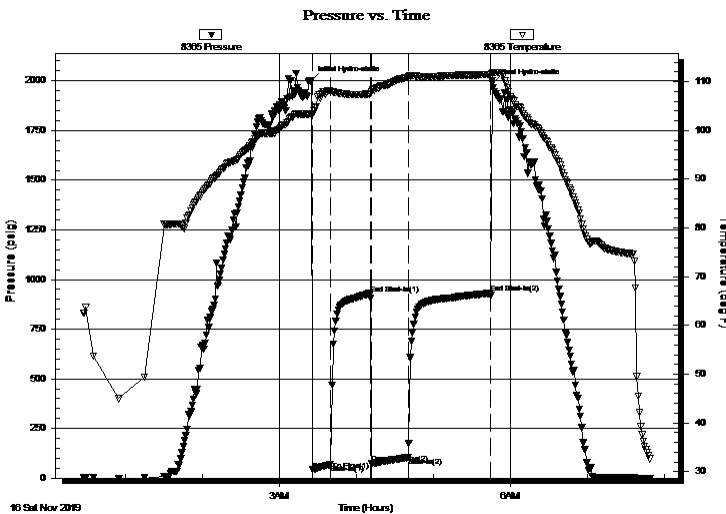
GENERAL INFORMATION:

Formation: **Toronto Lansing A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:25:32
 Time Test Ended: 07:49:02
 Interval: **4040.00 ft (KB) To 4110.00 ft (KB) (TVD)**
 Total Depth: 4110.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Scott City/ 116
 Reference Elevations: 3155.00 ft (KB)
 3147.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8365 Inside
 Press@RunDepth: 104.95 psig @ 4041.00 ft (KB) Capacity: psig
 Start Date: 2019.11.16 End Date: 2019.11.16 Last Calib.: 2019.11.16
 Start Time: 00:27:01 End Time: 07:49:02 Time On Btm: 2019.11.16 @ 03:24:47
 Time Off Btm: 2019.11.16 @ 05:46:17

TEST COMMENT: IF 15 Minutes/ Blow built to 5 3/4 inch
 ISI 30 Minutes/ Light surface blow back
 FF 30 Minutes/ Blow built to 8 1/4 inch
 FSI 60 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.05	103.43	Initial Hydro-static
1	41.31	103.28	Open To Flow (1)
16	69.37	107.82	Shut-In(1)
46	925.88	107.49	End Shut-In(1)
47	72.83	107.89	Open To Flow (2)
76	104.95	110.94	Shut-In(2)
140	931.67	111.46	End Shut-In(2)
142	1985.65	111.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
198.00	OCM / O 20% M 80%	2.23
3.00	Clean Oil 100%	0.04

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 Bramblewood
 Wichita Kansas
 67206+1094
 ATTN: Bryan Bynog

15/10S/33W/Thomas
MRM #3
 Job Ticket: 66263 **DST#: 1**
 Test Start: 2019.11.16 @ 00:27:00

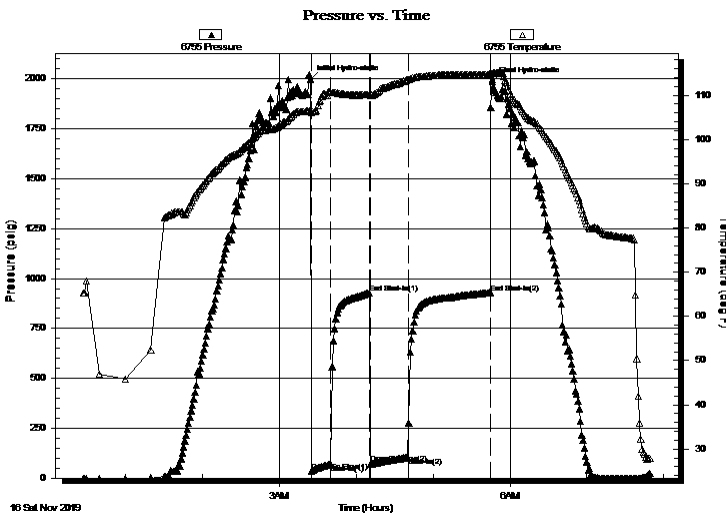
GENERAL INFORMATION:

Formation: **Toronto Lansing A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:25:32
 Time Test Ended: 07:49:02
 Interval: **4040.00 ft (KB) To 4110.00 ft (KB) (TVD)**
 Total Depth: 4110.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Scott City/ 116
 Reference Elevations: 3155.00 ft (KB)
 3147.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6755 Outside
 Press@RunDepth: 929.90 psig @ 4042.00 ft (KB) Capacity: psig
 Start Date: 2019.11.16 End Date: 2019.11.16 Last Calib.: 2019.11.16
 Start Time: 00:27:01 End Time: 07:49:02 Time On Btm: 2019.11.16 @ 03:24:17
 Time Off Btm: 2019.11.16 @ 05:46:17

TEST COMMENT: IF 15 Minutes/ Blow built to 5 3/4 inch
 ISI 30 Minutes/ Light surface blow back
 FF 30 Minutes/ Blow built to 8 1/4 inch
 FSI 60 Minutes/ No blow back

PRESSURE SUMMARY



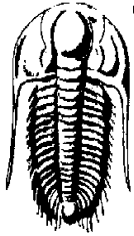
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1997.35	106.55	Initial Hydro-static
1	36.73	106.15	Open To Flow (1)
16	69.68	110.65	Shut-In(1)
46	928.60	110.16	End Shut-In(1)
47	72.56	109.97	Open To Flow (2)
76	104.40	113.50	Shut-In(2)
141	929.90	114.77	End Shut-In(2)
142	1987.34	114.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
198.00	OCM / O 20% M 80%	2.23
3.00	Clean Oil 100%	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

15/10S/33W/Thomas

2020 Bramblewood
Wichita Kansas
67206+1094

MRM #3

Job Ticket: 66263

DST#: 1

ATTN: Bryan Bynog

Test Start: 2019.11.16 @ 00:27:00

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: 86.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
198.00	OCM / O 20% M 80%	2.231
3.00	Clean Oil 100%	0.042

Total Length: 201.00 ft Total Volume: 2.273 bbl

Num Fluid Samples: 0

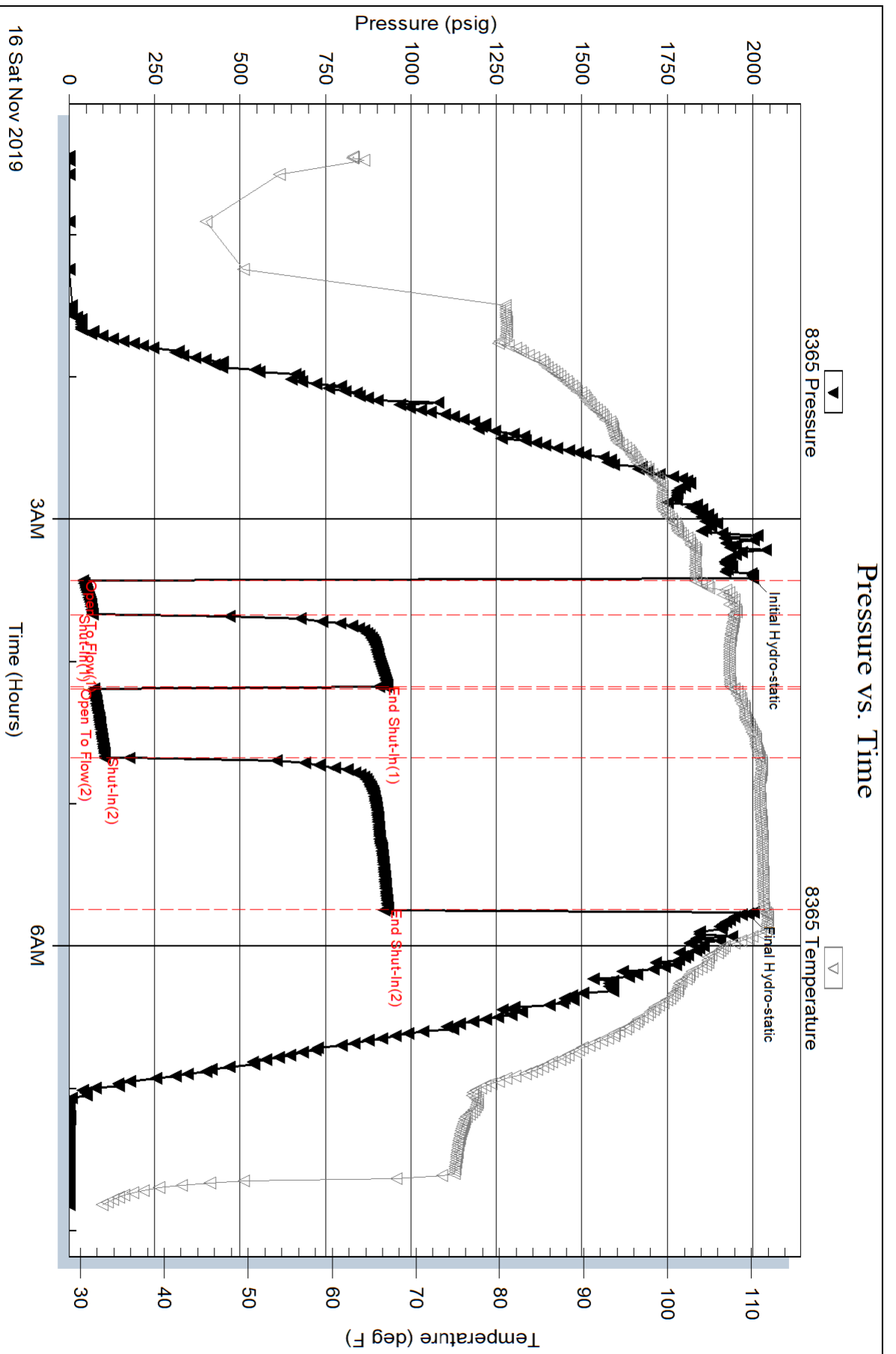
Num Gas Bombs: 0

Serial #:

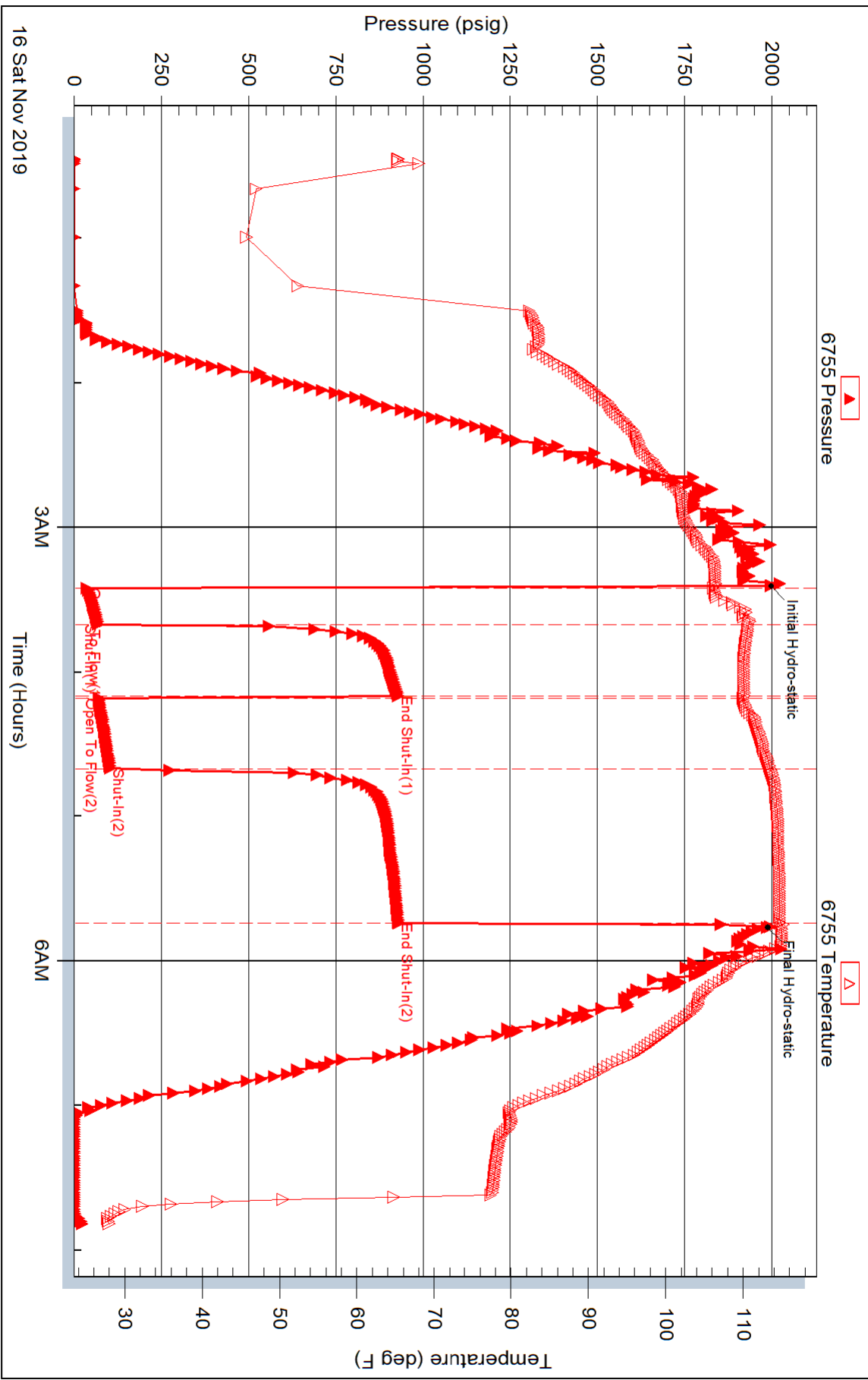
Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 Bramblewood
 Wichita Kansas
 67206+1094
 ATTN: Bryan Bynog

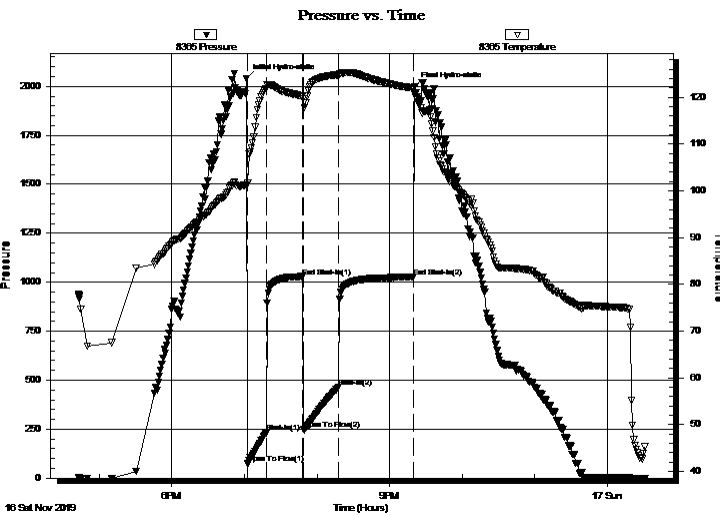
15/10S/33W/Thomas
MRM #3
 Job Ticket: 66264 **DST#: 2**
 Test Start: 2019.11.16 @ 16:43:00

GENERAL INFORMATION:

Formation: **Lansing B&C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:02:47
 Time Test Ended: 00:31:02
 Interval: **4105.00 ft (KB) To 4145.00 ft (KB) (TVD)**
 Total Depth: 4145.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Scott City/ 116
 Reference Elevations: 3155.00 ft (KB)
 3147.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8365 **Inside**
 Press@RunDepth: 465.25 psig @ 4106.00 ft (KB) Capacity: psig
 Start Date: 2019.11.16 End Date: 2019.11.17 Last Calib.: 2019.11.17
 Start Time: 16:43:01 End Time: 00:31:02 Time On Btm: 2019.11.16 @ 19:02:02
 Time Off Btm: 2019.11.16 @ 21:20:47

TEST COMMENT: IF 15 Minutes/ Blow to BOB in 2 minutes 45 seconds/ Total build 60 inches
 ISI 30 Minutes/ 8 1/2 inch blow back
 FF 30 Minutes/ Blow to BOB in 4 minutes/ Total build 69 inches
 FSI 60 Minutes/ 3 1/2 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2038.71	101.37	Initial Hydro-static
1	73.62	101.61	Open To Flow (1)
16	232.52	121.90	Shut-In(1)
46	1029.23	120.20	End Shut-In(1)
47	248.07	119.70	Open To Flow (2)
76	465.25	124.84	Shut-In(2)
138	1025.84	121.92	End Shut-In(2)
139	1999.45	120.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOM / G 25% O 25% M 50%	1.19
1074.00	GO / G 20% O 80%	15.07
0.00	350 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

15/10S/33W/Thomas

2020 Bramblewood
Wichita Kansas
67206+1094

MRM #3

Job Ticket: 66264

DST#: 2

ATTN: Bryan Bynog

Test Start: 2019.11.16 @ 16:43:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 79.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOM / G 25% O 25% M 50%	1.193
1074.00	GO / G 20% O 80%	15.065
0.00	350 feet GIP	0.000

Total Length: 1198.00 ft Total Volume: 16.258 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

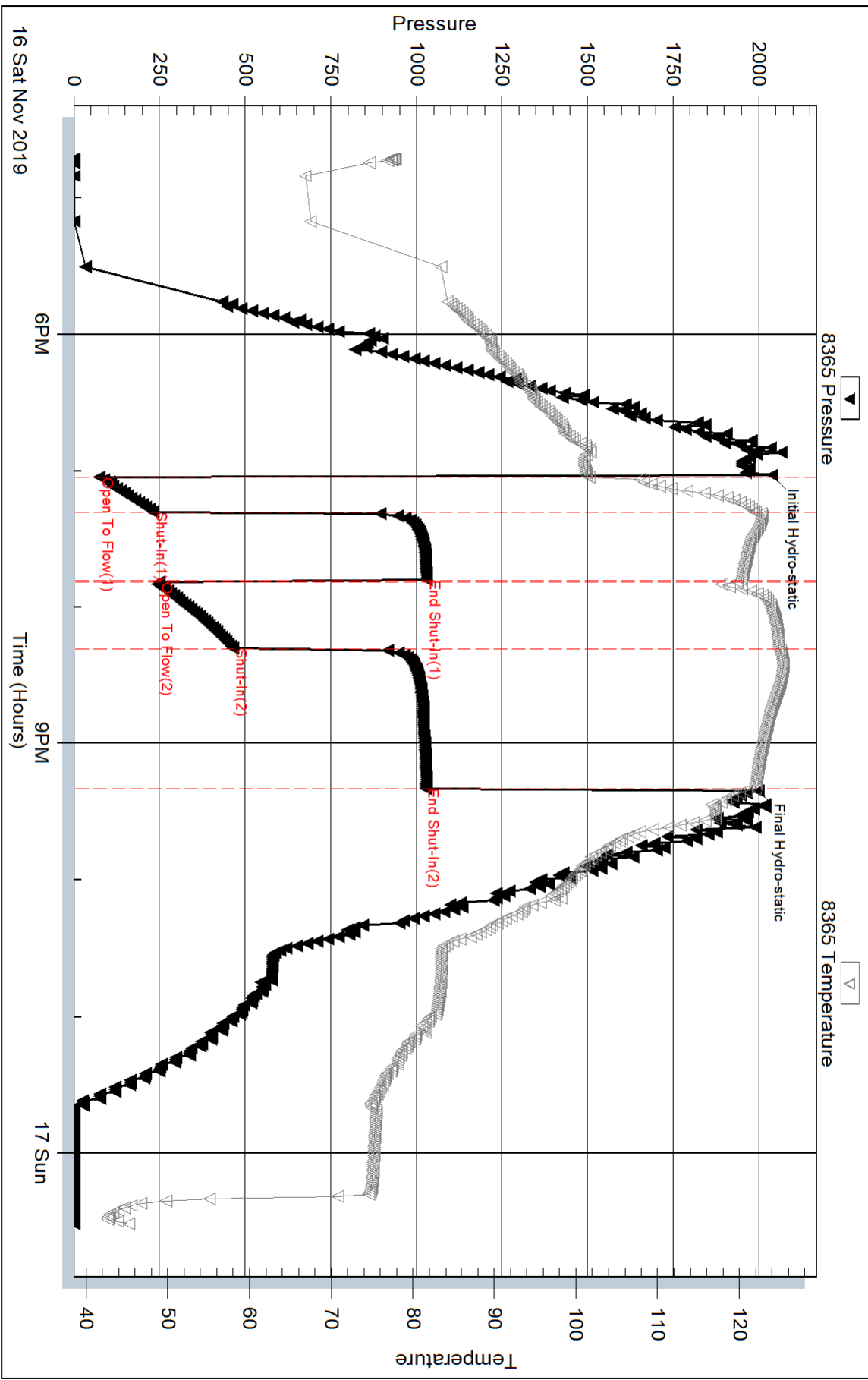
Serial #:

Laboratory Name:

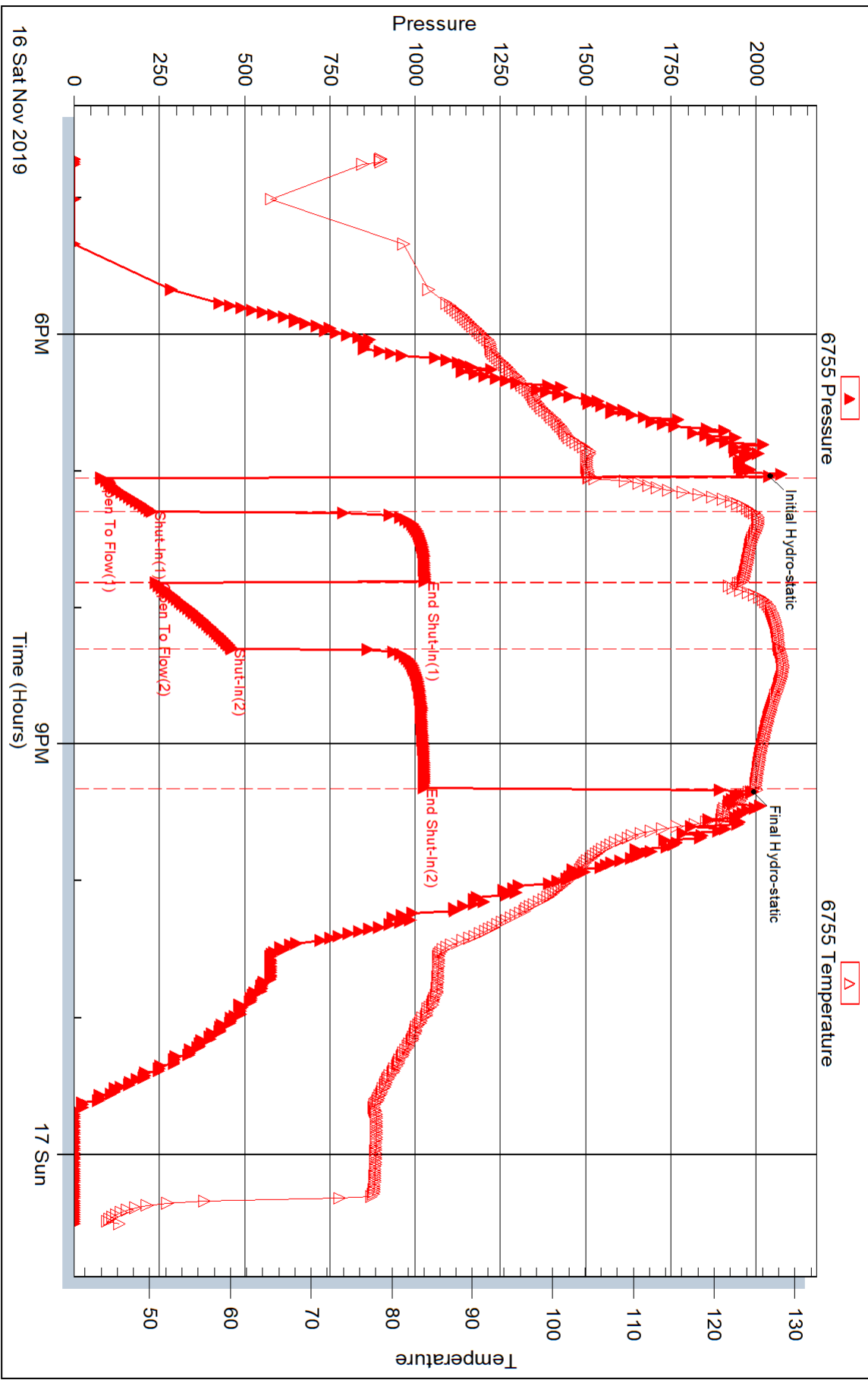
Laboratory Location:

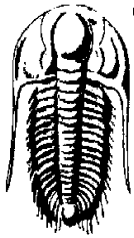
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 Bramblewood
Wichita Kansas
67206+1094
ATTN: Bryan Bynog

15/10S/33W/Thomas

MRM #3

Job Ticket: 66265

DST#: 3

Test Start: 2019.11.17 @ 08:20:00

GENERAL INFORMATION:

Formation: **Lansing E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:25:02

Time Test Ended: 14:52:02

Interval: 4145.00 ft (KB) To 4170.00 ft (KB) (TVD)

Total Depth: 4170.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Scott City/ 116

Reference Elevations: 3155.00 ft (KB)

3147.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6755 Outside

Press@RunDepth: 1060.52 psig @ 4147.00 ft (KB)

Start Date: 2019.11.17

End Date: 2019.11.17

Start Time: 08:20:01

End Time: 14:52:02

Capacity: psig

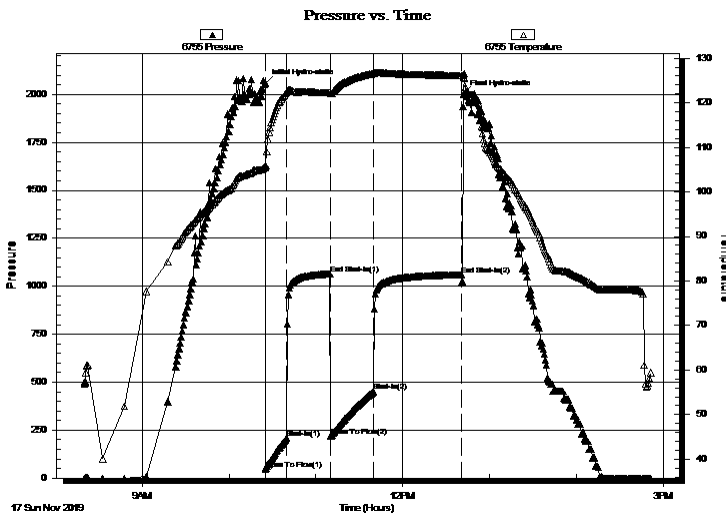
Last Calib.: 2019.11.17

Time On Btm: 2019.11.17 @ 10:24:47

Time Off Btm: 2019.11.17 @ 12:42:17

TEST COMMENT: IF 15 Minutes/ Blow to BOB in 4 min/ Total build 40 inches
 ISI 30 Minutes/ 1/2 inch blow back
 FF 30 Minutes/ Blow to BOB in 5 min/ Total build 59 inches
 FSI 60 Minutes/ 1/2 inch blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2057.74	105.72	Initial Hydro-static
1	46.62	105.37	Open To Flow (1)
15	209.94	122.30	Shut-In(1)
45	1064.23	122.30	End Shut-In(1)
46	220.16	122.12	Open To Flow (2)
75	451.75	126.53	Shut-In(2)
136	1060.52	126.09	End Shut-In(2)
138	2000.88	125.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	M&OCW M 5% O 5% W 90%	3.80
558.00	HOCMW/ M 10% O 25% W 65%	7.83
30.00	GO / G 10% O 90%	0.42
0.00	90 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

15/10S/33W/Thomas

2020 Bramblewood
Wichita Kansas
67206+1094

MRM #3

Job Ticket: 66265

DST#: 3

ATTN: Bryan Bynog

Test Start: 2019.11.17 @ 08:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

39000 ppm

Viscosity: 79.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
310.00	M&OCW M 5% O 5% W 90%	3.802
558.00	HOCMM/ M 10% O 25% W 65%	7.827
30.00	GO / G 10% O 90%	0.421
0.00	90 feet GIP	0.000

Total Length: 898.00 ft Total Volume: 12.050 bbl

Num Fluid Samples: 0

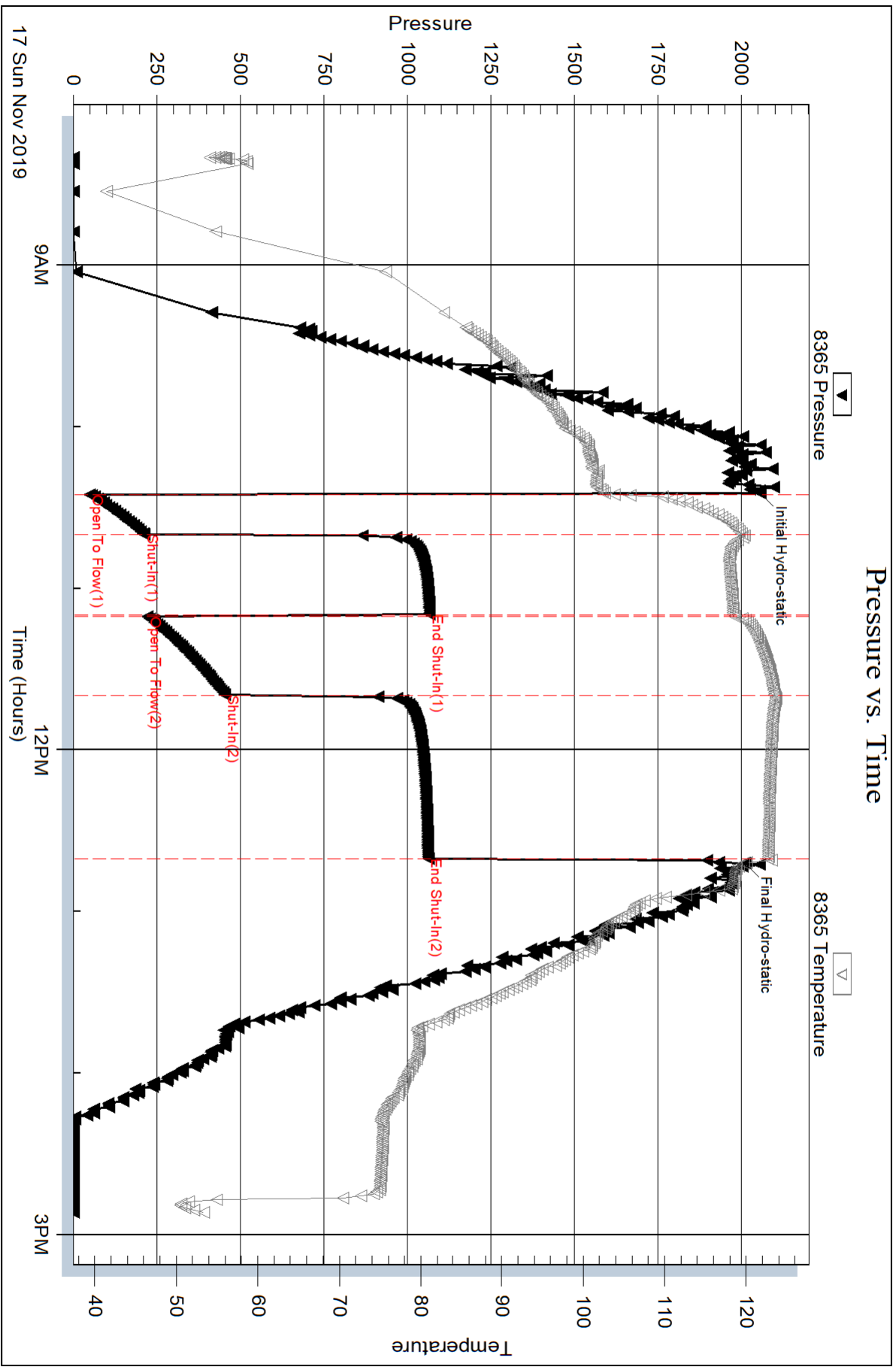
Num Gas Bombs: 0

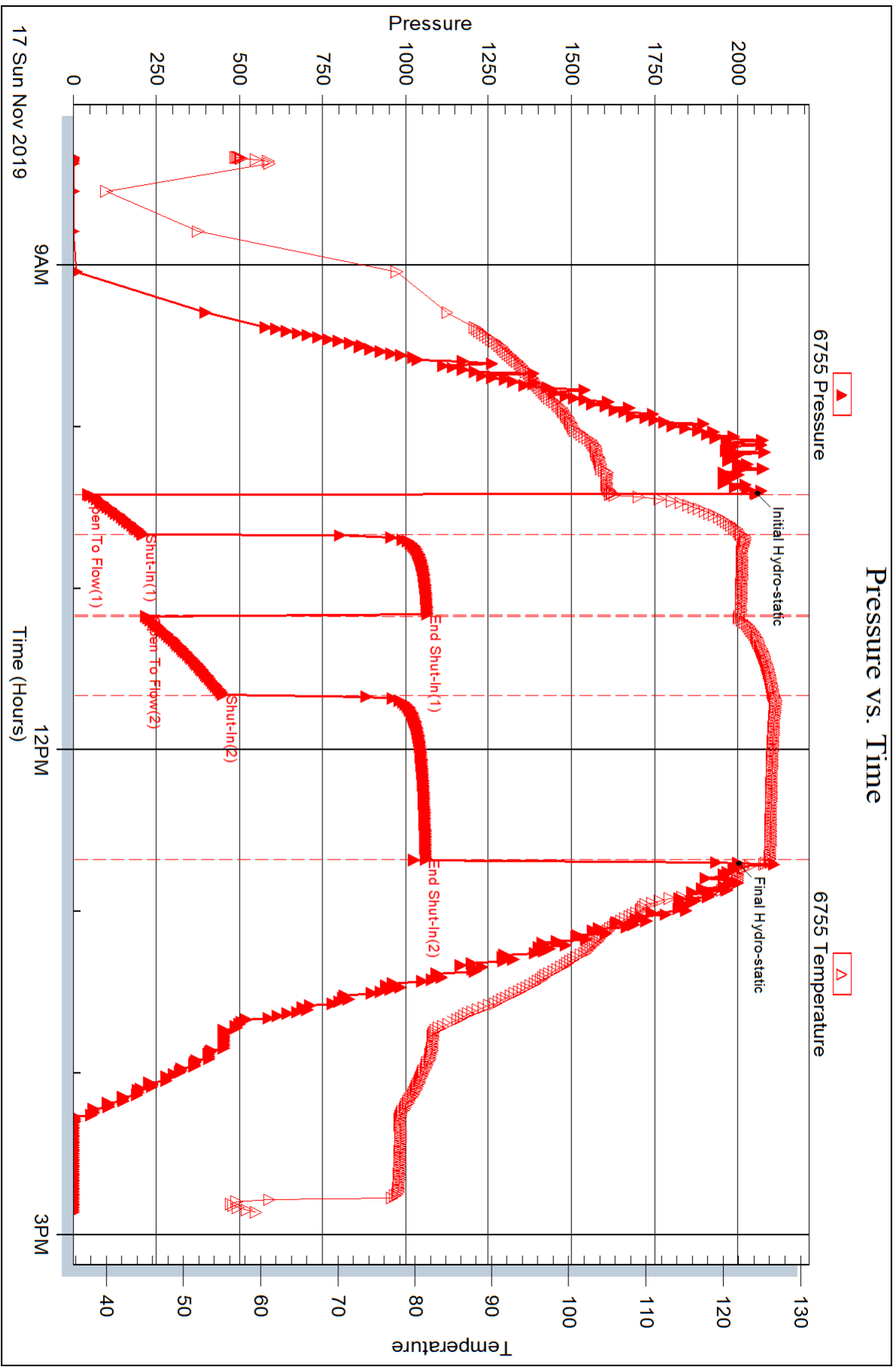
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .215 ohms @ 61 deg.







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 Bramblewood
Wichita Kansas
67206+1094
ATTN: Bryan Bynog

15/10S/33W/Thomas

MRM #3

Job Ticket: 66266

DST#: 4

Test Start: 2019.11.18 @ 06:47:00

GENERAL INFORMATION:

Formation: **Lansing/KC Lower G &**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:48:32

Time Test Ended: 13:27:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Scott City/ 116

Interval: 4205.00 ft (KB) To 4250.00 ft (KB) (TVD)

Reference Elevations: 3155.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

3147.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8365

Inside

Press@RunDepth: 219.37 psig @ 4206.00 ft (KB)

Capacity: psig

Start Date: 2019.11.18

End Date: 2019.11.18

Last Calib.: 2019.11.18

Start Time: 06:47:01

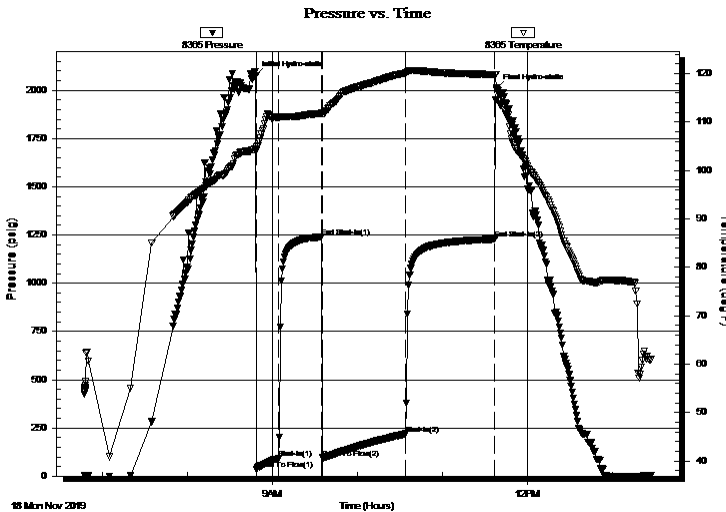
End Time: 13:27:02

Time On Btm: 2019.11.18 @ 08:48:02

Time Off Btm: 2019.11.18 @ 11:38:17

TEST COMMENT: IF 15 Minutes/ Blow to BOB 13 minutes/ Total build 13 inches
 ISI 30 Minutes/ 1 inch blow back
 FF 30 Minutes/ Blow to BOB in 17 minutes/ Total build 40 inches
 FSI 60 Minutes/ 3 inch blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.38	104.51	Initial Hydro-static
1	33.05	104.20	Open To Flow (1)
16	90.80	110.95	Shut-In(1)
47	1239.52	111.82	End Shut-In(1)
47	94.63	111.68	Open To Flow (2)
106	219.37	120.16	Shut-In(2)
169	1228.73	119.81	End Shut-In(2)
171	2011.18	116.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	OCMW / O 10% M 20% W 70%	2.06
139.00	OCWM / O 10% W 30% M 60%	1.95
139.00	GO / G 5% O 95%	1.95
0.00	155 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 Bramblewood
Wichita Kansas
67206+1094
ATTN: Bryan Bynog

15/10S/33W/Thomas
MRM #3
Job Ticket: 66266 **DST#: 4**
Test Start: 2019.11.18 @ 06:47:00

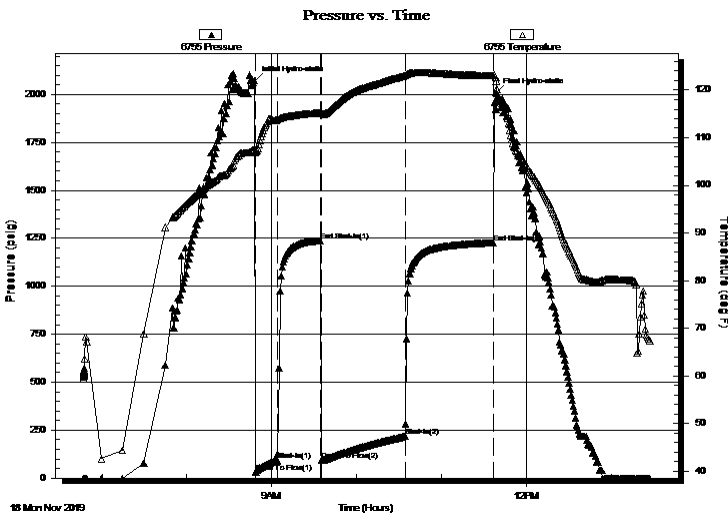
GENERAL INFORMATION:

Formation: **Lansing/KC Lower G &**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:48:32
 Time Test Ended: 13:27:02
 Interval: **4205.00 ft (KB) To 4250.00 ft (KB) (TVD)**
 Total Depth: 4250.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Scott City/ 116
 Reference Elevations: 3155.00 ft (KB)
 3147.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6755 Outside
 Press@RunDepth: 1227.53 psig @ 4207.00 ft (KB) Capacity: psig
 Start Date: 2019.11.18 End Date: 2019.11.18 Last Calib.: 2019.11.18
 Start Time: 06:47:01 End Time: 13:27:02 Time On Btm: 2019.11.18 @ 08:48:02
 Time Off Btm: 2019.11.18 @ 11:38:17

TEST COMMENT: IF 15 Minutes/ Blow to BOB 13 minutes/ Total build 13 inches
 ISI 30 Minutes/ 1 inch blow back
 FF 30 Minutes/ Blow to BOB in 17 minutes/ Total build 40 inches
 FSI 60 Minutes/ 3 inch blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2073.96	107.48	Initial Hydro-static
1	31.32	106.90	Open To Flow (1)
16	90.70	113.78	Shut-In(1)
47	1238.22	115.19	End Shut-In(1)
47	94.03	115.00	Open To Flow (2)
106	218.24	123.05	Shut-In(2)
169	1227.53	123.04	End Shut-In(2)
171	2009.62	121.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	OCMW / O 10% M 20% W 70%	2.06
139.00	OCWM / O 10% W 30% M 60%	1.95
139.00	GO / G 5% O 95%	1.95
0.00	155 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

15/10S/33W/Thomas

2020 Bramblewood
Wichita Kansas
67206+1094

MRM #3

Job Ticket: 66266

DST#: 4

ATTN: Bryan Bynog

Test Start: 2019.11.18 @ 06:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

31000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	OCMW / O 10% M 20% W 70%	2.063
139.00	OCWM / O 10% W 30% M 60%	1.950
139.00	GO / G 5% O 95%	1.950
0.00	155 feet GIP	0.000

Total Length: 464.00 ft Total Volume: 5.963 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

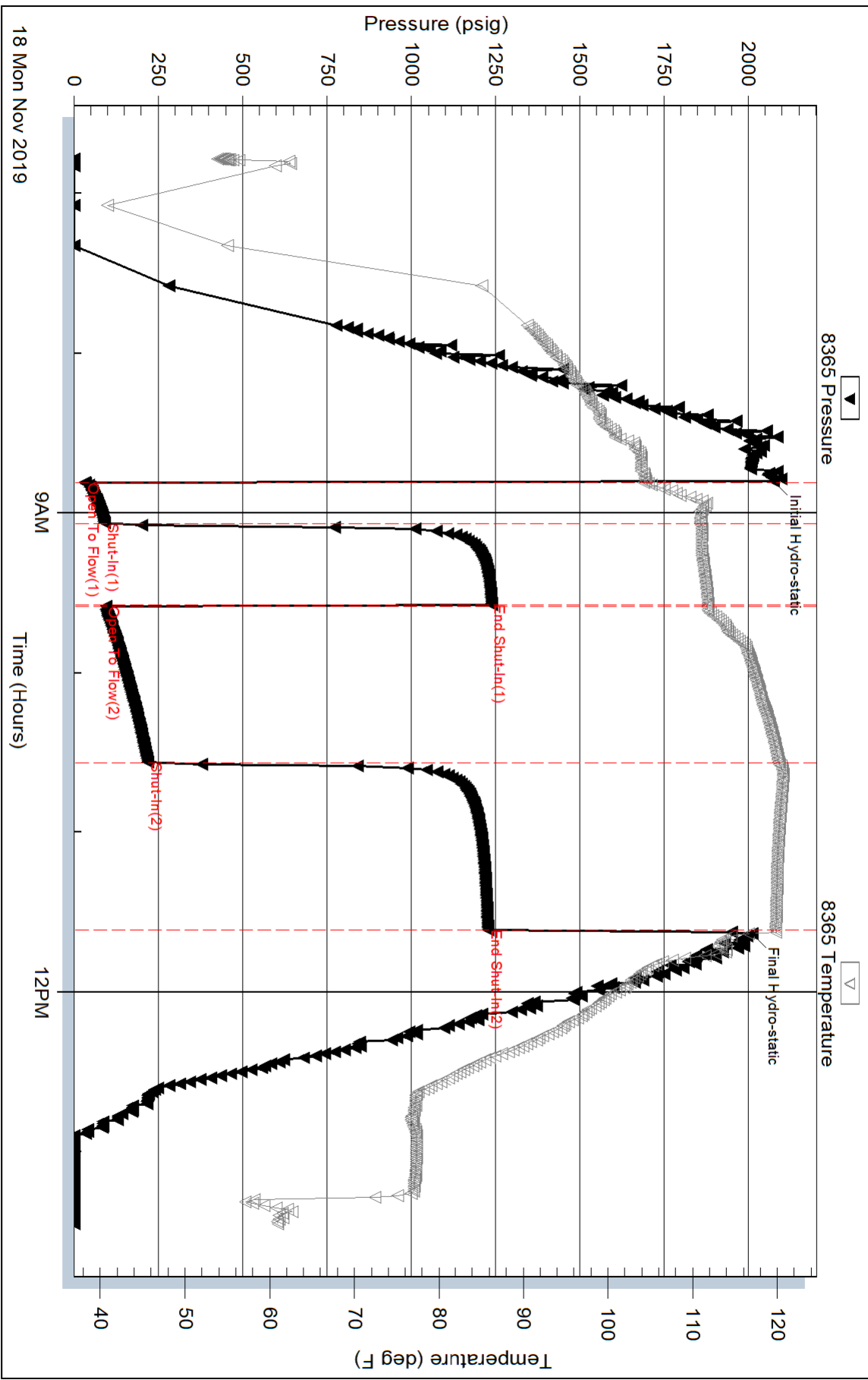
Serial #:

Laboratory Name:

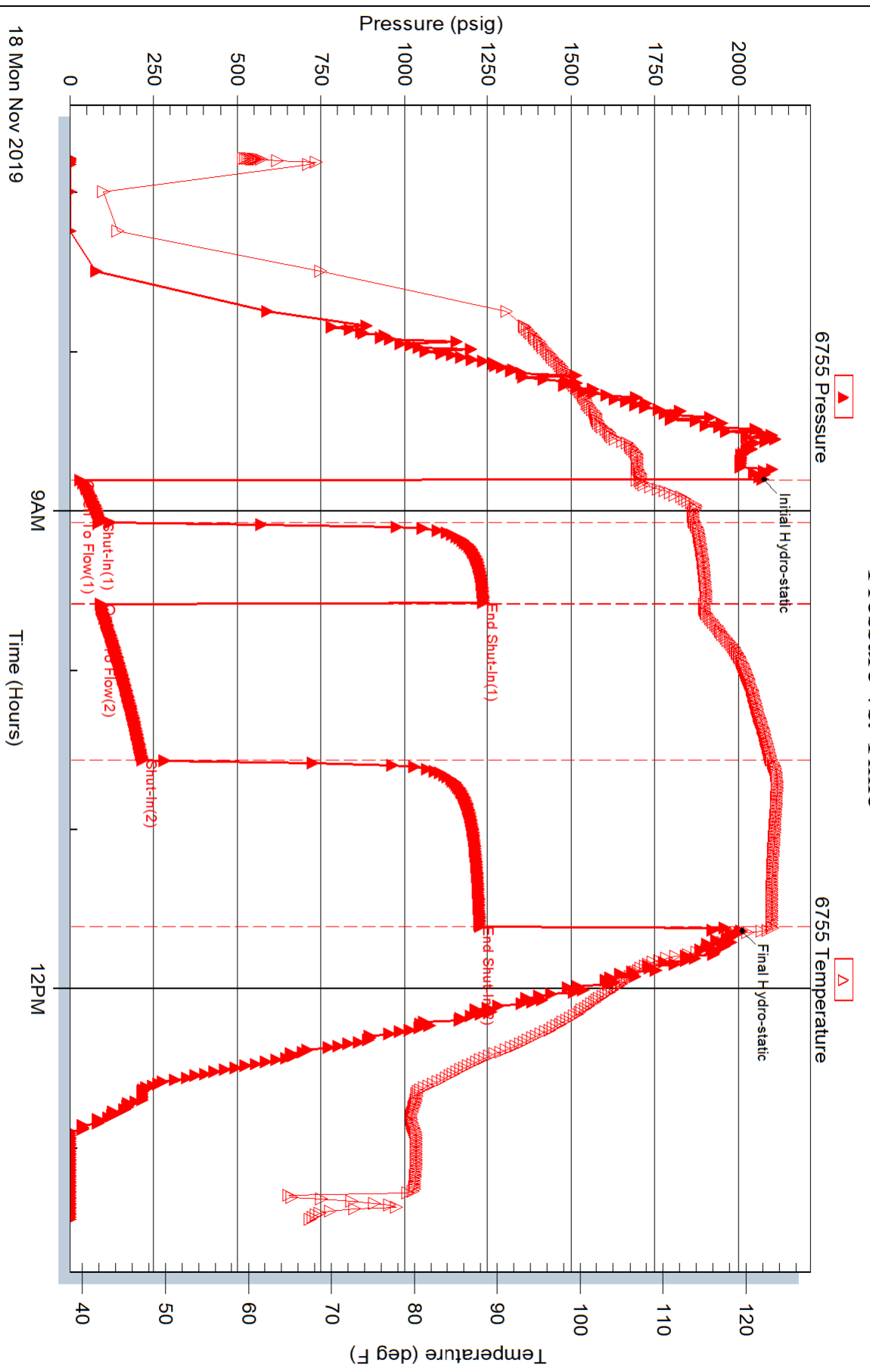
Laboratory Location:

Recovery Comments: Recovery Resistivity .205 ohms @ 69 deg.

Pressure vs. Time



Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 Bramblewood
 Wichita KS 67206+1094
 ATTN: Bryan Bynog

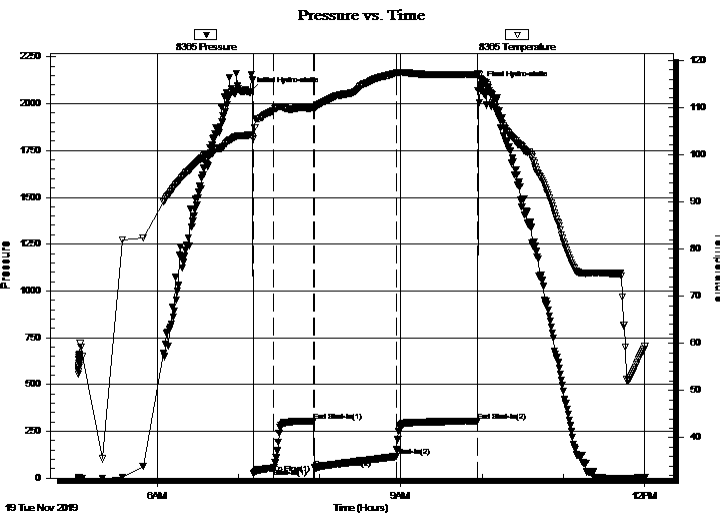
15-10S-33W Thomas,KS
MRM #3
 Job Ticket: 66267 **DST#: 5**
 Test Start: 2019.11.19 @ 05:02:00

GENERAL INFORMATION:

Formation: **KC I - K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:11:02
 Time Test Ended: 12:00:02
 Interval: **4250.00 ft (KB) To 4340.00 ft (KB) (TVD)**
 Total Depth: 4340.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Scott City/ 116
 Reference Elevations: 3155.00 ft (KB)
 3147.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8365 Inside
 Press@RunDepth: 114.79 psig @ 4251.00 ft (KB) Capacity: psig
 Start Date: 2019.11.19 End Date: 2019.11.19 Last Calib.: 2019.11.19
 Start Time: 05:02:01 End Time: 12:00:02 Time On Btm: 2019.11.19 @ 07:09:02
 Time Off Btm: 2019.11.19 @ 09:58:32

TEST COMMENT: IF 15 Minutes/ Blow to BOB in 15 minutes
 ISI 30 Minutes/ 1 inch blow back
 FF 60 Minutes/ Blow to BOB in 11 minutes/ Total build 59 inches
 FSI 60 Minutes/ 10 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.11	104.19	Initial Hydro-static
2	24.90	103.32	Open To Flow (1)
17	54.28	109.35	Shut-In(1)
47	305.24	109.88	End Shut-In(1)
48	55.09	109.86	Open To Flow (2)
108	114.79	117.23	Shut-In(2)
168	304.49	116.95	End Shut-In(2)
170	2099.27	116.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOM/ G 20% O 20% M 60%	1.19
155.00	GO / G 40% O 60%	2.17
0.00	713 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 Bramblewood
Wichita KS 67206+1094
ATTN: Bryan Bynog

15-10S-33W Thomas,KS
MRM #3
Job Ticket: 66267 **DST#: 5**
Test Start: 2019.11.19 @ 05:02:00

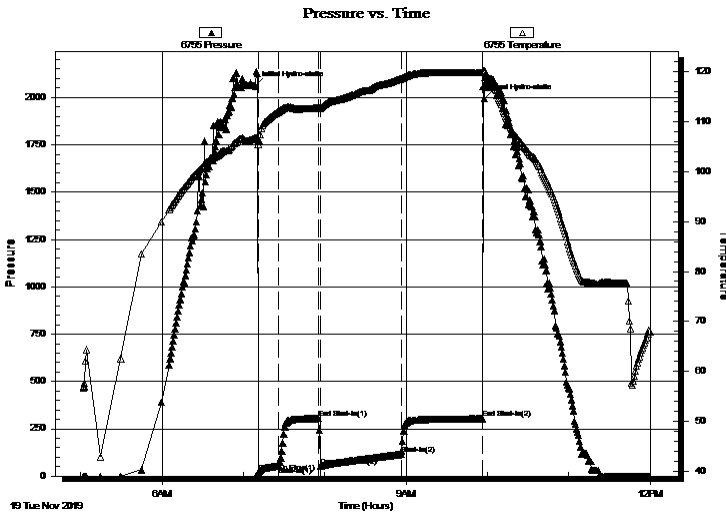
GENERAL INFORMATION:

Formation: **KC I - K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:11:02
Time Test Ended: 12:00:02
Interval: **4250.00 ft (KB) To 4340.00 ft (KB) (TVD)**
Total Depth: 4340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72 Scott City/ 116
Reference Elevations: 3155.00 ft (KB)
3147.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6755 Outside
Press@RunDepth: 303.72 psig @ 4252.00 ft (KB) Capacity: psig
Start Date: 2019.11.19 End Date: 2019.11.19 Last Calib.: 2019.11.19
Start Time: 05:02:01 End Time: 12:00:02 Time On Btm: 2019.11.19 @ 07:09:02
Time Off Btm: 2019.11.19 @ 09:57:47

TEST COMMENT: IF 15 Minutes/ Blow to BOB in 15 minutes
ISI 30 Minutes/ 1 inch blow back
FF 60 Minutes/ Blow to BOB in 11 minutes/ Total build 59 inches
FSI 60 Minutes/ 10 inch blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.45	106.78	Initial Hydro-static
2	20.54	105.45	Open To Flow (1)
17	53.75	112.07	Shut-In(1)
47	304.25	112.69	End Shut-In(1)
48	50.40	112.72	Open To Flow (2)
108	115.06	118.62	Shut-In(2)
168	303.72	119.92	End Shut-In(2)
169	1995.21	120.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOM / G 20% O 20% M 60%	1.19
155.00	GO / G 40% O 60%	2.17
0.00	713 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC
2020 Bramblewood
Wichita KS 67206+1094
ATTN: Bryan Bynog

15-10S-33W Thomas,KS
MRM #3
Job Ticket: 66267 **DST#: 5**
Test Start: 2019.11.19 @ 05:02:00

Mud and Cushion Information

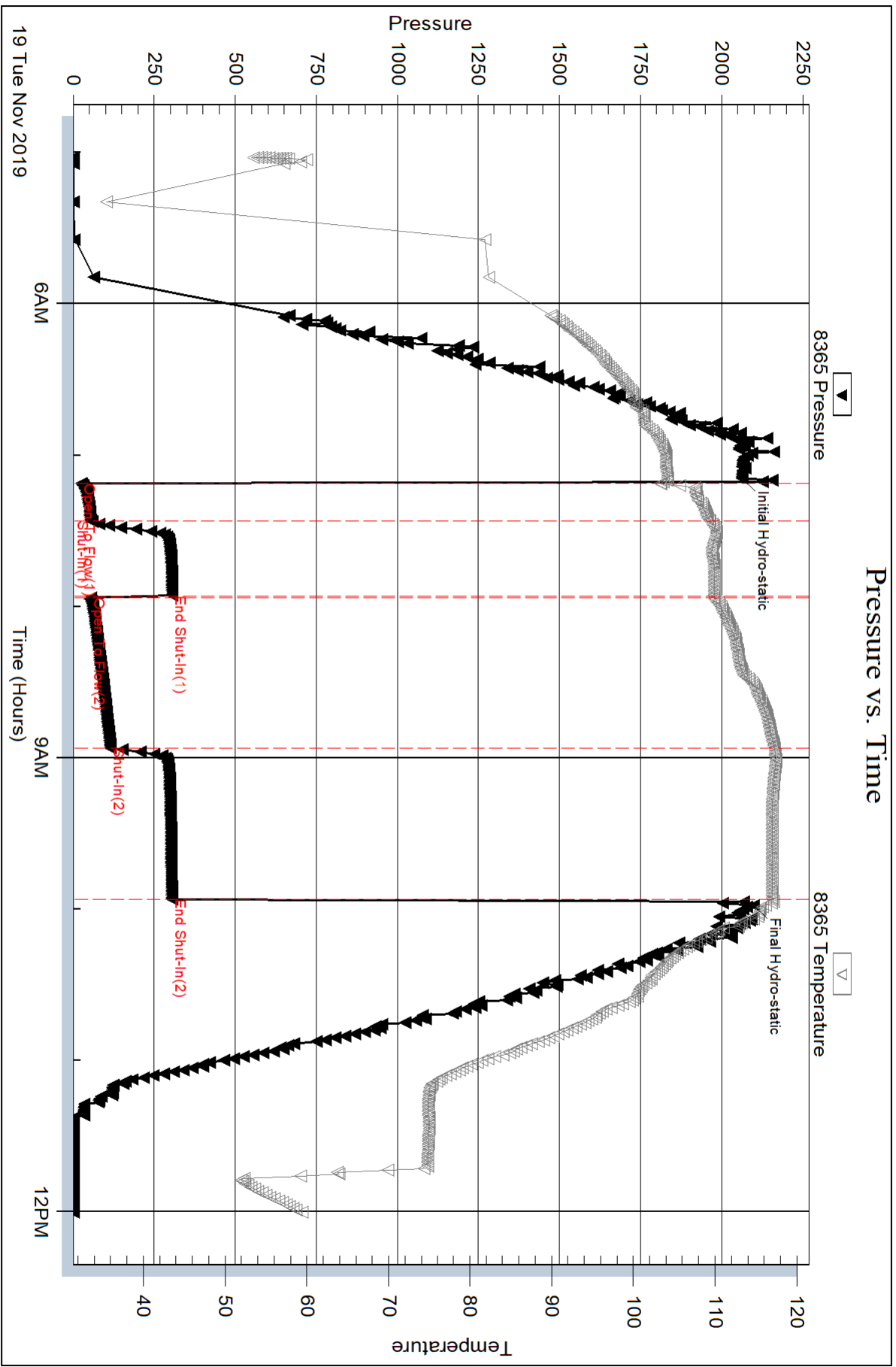
Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.80 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: 1.00 inches		

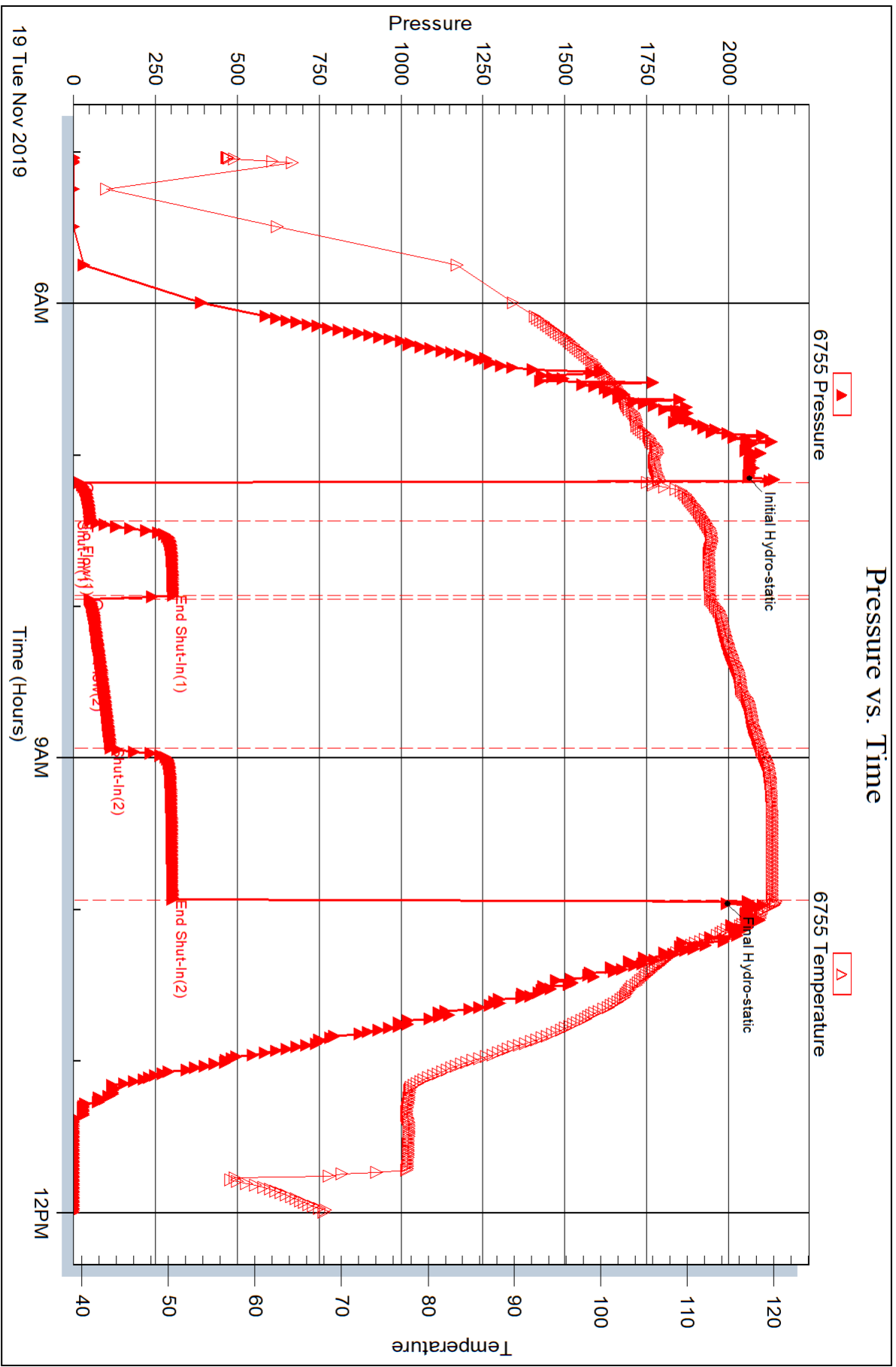
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOM / G 20% O 20% M 60%	1.193
155.00	GO / G 40% O 60%	2.174
0.00	713 feet GIP	0.000

Total Length: 279.00 ft Total Volume: 3.367 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: MRM #3

Location: SENENE SECTION 15 10S-33W THOMAS COUNTY, KANSAS

License Number: 15-193-21061

Region: Midcontinent

Spud Date: 11-9-2019

Drilling Completed:

Surface Coordinates: 1320' FNL & 330' FEL

Bottom Hole

Coordinates:

Ground Elevation (ft): 3147

K.B. Elevation (ft): 3155

Logged Interval (ft): 3500

To:

Total Depth (ft):

Formation: LKC, FT. SCOTT, JOHNSON & MISSISSIPPI

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

Surveys

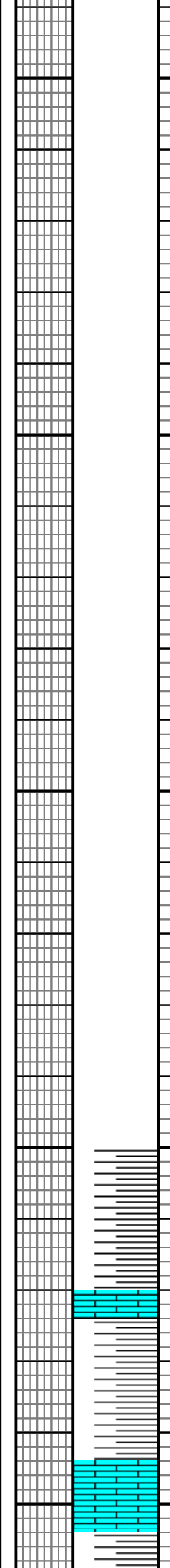
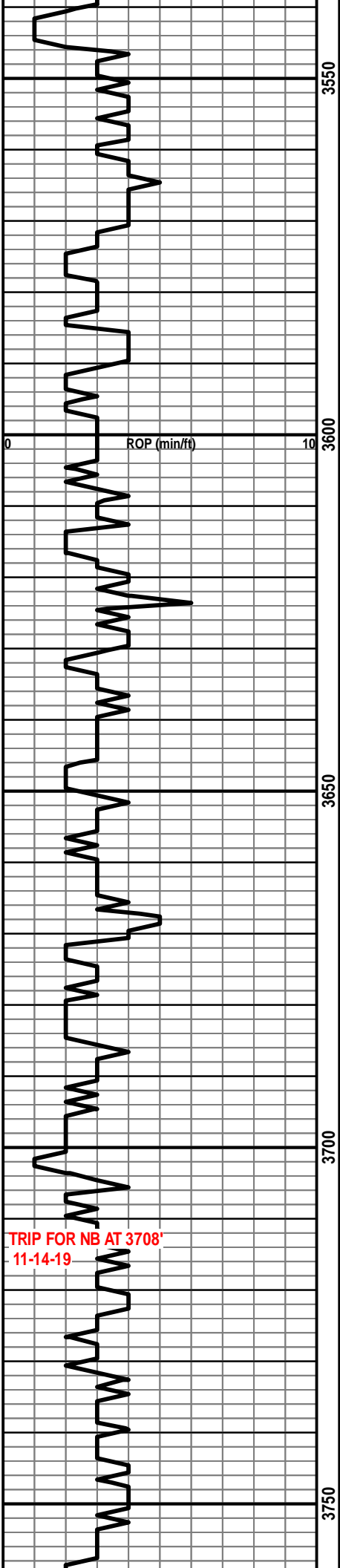
DEPTH	ANGLE
394'	.5
3708'	1.75
4145'	1

DSTs

DST#1 4040-4110, DST#2 4105-4145, DST#3 4145-4170, DST#4 4205-4250, DST#5 4250-4340

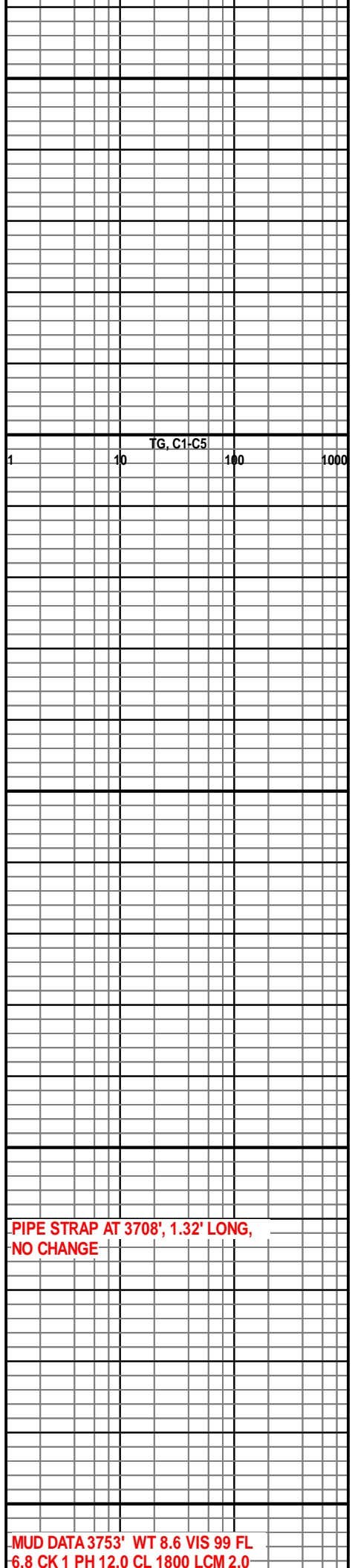
Remarks

PRODUCTIVE WELL



SH red,gn,blk,sl carb with thin LS crm,v
hd,dns,ns

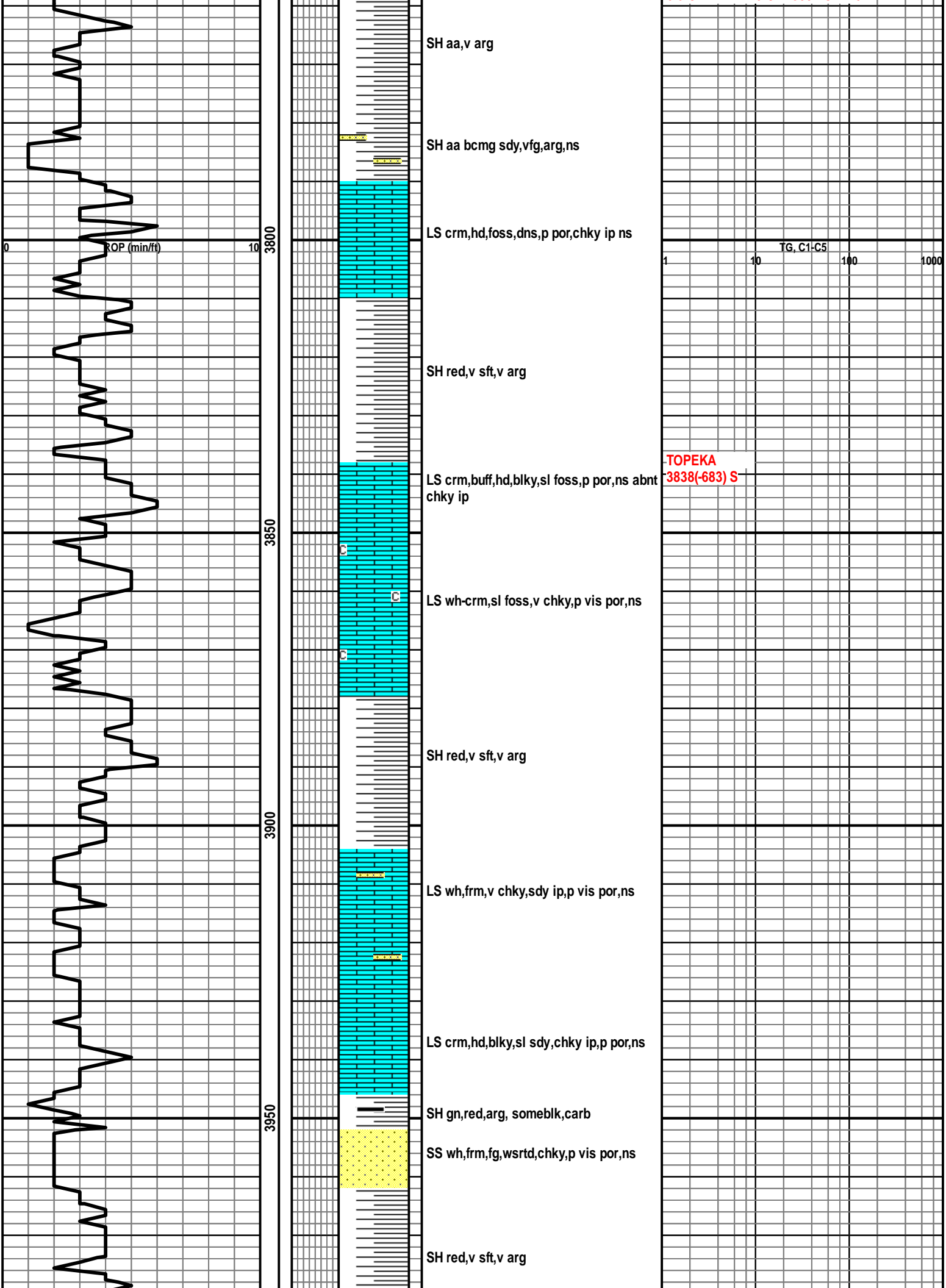
LS crm,hd,p por,ns

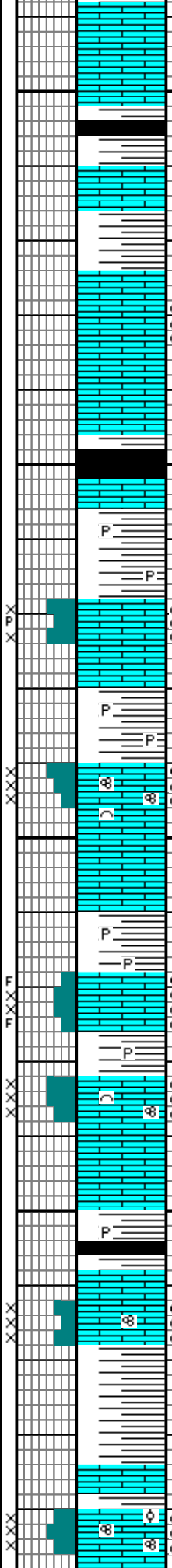
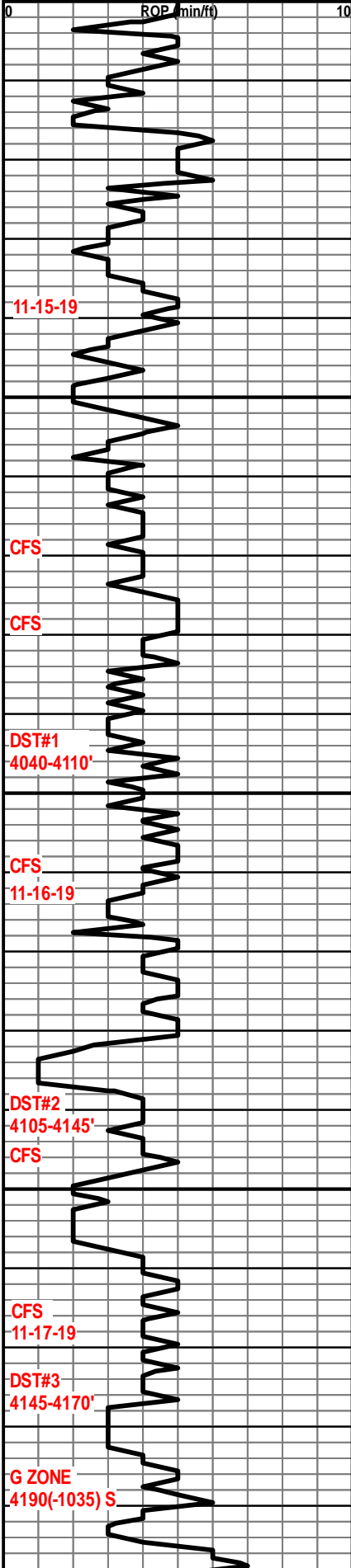
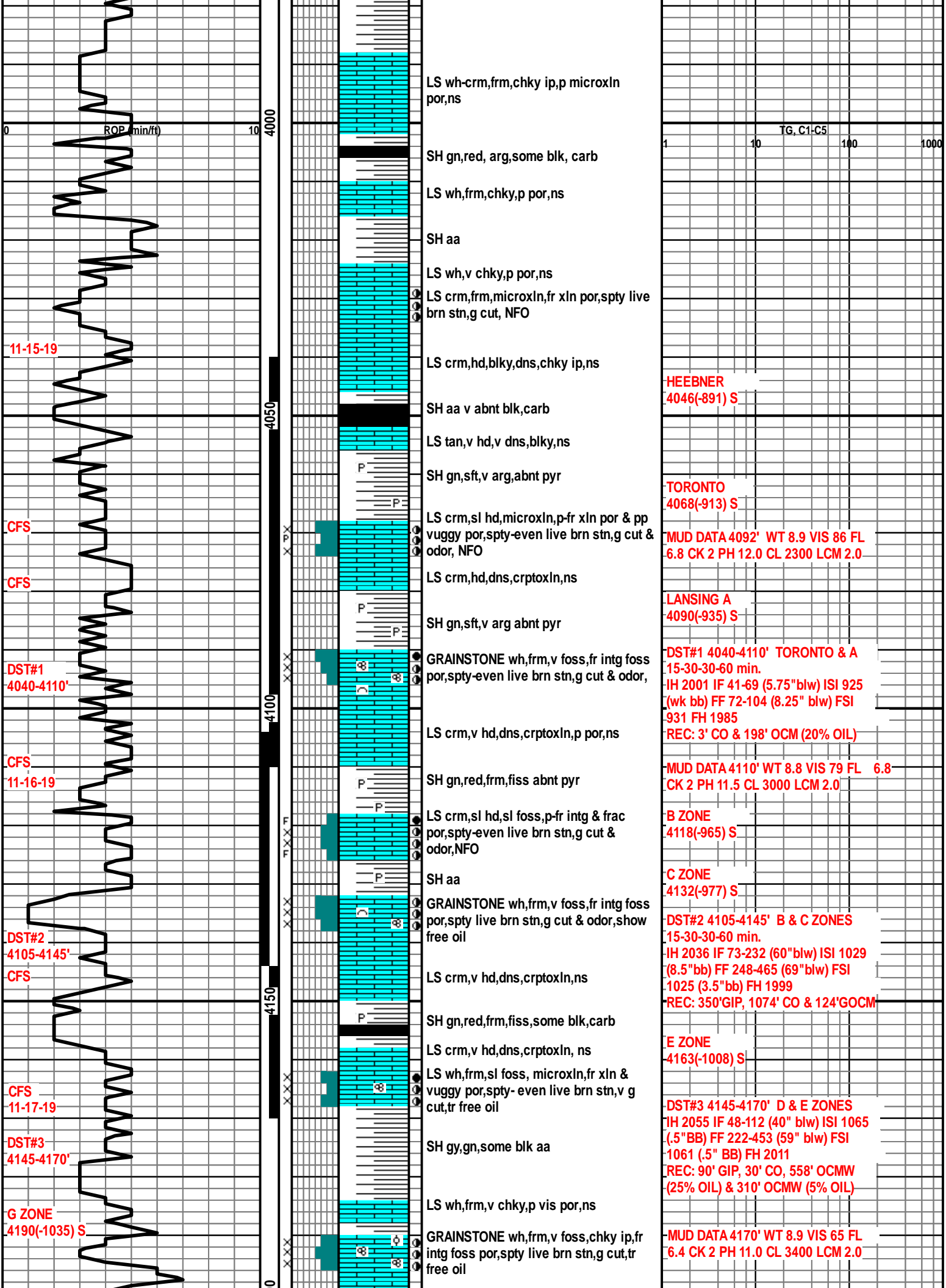


TRIP FOR NB AT 3708'
11-14-19

PIPE STRAP AT 3708', 1.32' LONG,
NO CHANGE

MUD DATA 3753' WT 8.6 VIS 99 FL
6.8 CK 1 PH 12.0 CL 1800 LCM 2.0





LS wh-crm,frm,chky ip,p microxn por,ns

SH gn,red, arg,some blk, carb

LS wh,frm,chky,p por,ns

SH aa

LS wh,v chky,p por,ns

LS crm,frm,microxn,fr xln por,spty live brn stn,g cut, NFO

LS crm,hd,blky,dns,chky ip,ns

SH aa v abnt blk,carb

LS tan,v hd,v dns,blky,ns

SH gn,sft,v arg,abnt pyr

LS crm,sl hd,microxn,p-fr xln por & pp vuggy por,spty-even live brn stn,g cut & odor, NFO

LS crm,hd,dns,crptoxln,ns

SH gn,sft,v arg abnt pyr

GRAINSTONE wh,frm,v foss,fr intg foss por,spty-even live brn stn,g cut & odor,

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

SH gn,red,frm,fiss abnt pyr

LS crm,sl hd,sl foss,p-fr intg & frac por,spty-even live brn stn,g cut & odor,NFO

SH aa

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

LS crm,v hd,dns,crptoxln,ns

SH gn,red,frm,fiss,some blk,carb

LS crm,v hd,dns,crptoxln, ns

LS wh,frm,sl foss, microxn,fr xln & vuggy por,spty- even live brn stn,v g cut,tr free oil

SH gy,gn,some blk aa

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

GRAINSTONE wh,frm,v foss,chky ip,fr intg foss por,spty live brn stn,g cut,tr free oil

TG, C1-C5

1 10 100 1000

HEEBNER
4046(-891) S

TORONTO
4068(-913) S

MUD DATA 4092' WT 8.9 VIS 86 FL 6.8 CK 2 PH 12.0 CL 2300 LCM 2.0

LANSING A
4090(-935) S

DST#1 4040-4110' TORONTO & A
15-30-30-60 min.
-IH 2001 IF 41-69 (5.75"blw) ISI 925 (wk bb) FF 72-104 (8.25" blw) FSI 931 FH 1985
REC: 3' CO & 198' OCM (20% OIL)

MUD DATA 4110' WT 8.8 VIS 79 FL 6.8 CK 2 PH 11.5 CL 3000 LCM 2.0

B ZONE
4118(-965) S

C ZONE
4132(-977) S

DST#2 4105-4145' B & C ZONES
15-30-30-60 min.
-IH 2036 IF 73-232 (60"blw) ISI 1029 (8.5"bb) FF 248-465 (69"blw) FSI 1025 (3.5"bb) FH 1999
REC: 350'GIP, 1074' CO & 124'GOCM

E ZONE
4163(-1008) S

DST#3 4145-4170' D & E ZONES
-IH 2055 IF 48-112 (40" blw) ISI 1065 (.5"BB) FF 222-453 (59" blw) FSI 1061 (.5" BB) FH 2011
REC: 90' GIP, 30' CO, 558' OCMW (25% OIL) & 310' OCMW (5% OIL)

MUD DATA 4170' WT 8.9 VIS 65 FL 6.4 CK 2 PH 11.0 CL 3400 LCM 2.0

11-15-19

CFS

CFS

DST#1
4040-4110'

CFS

11-16-19

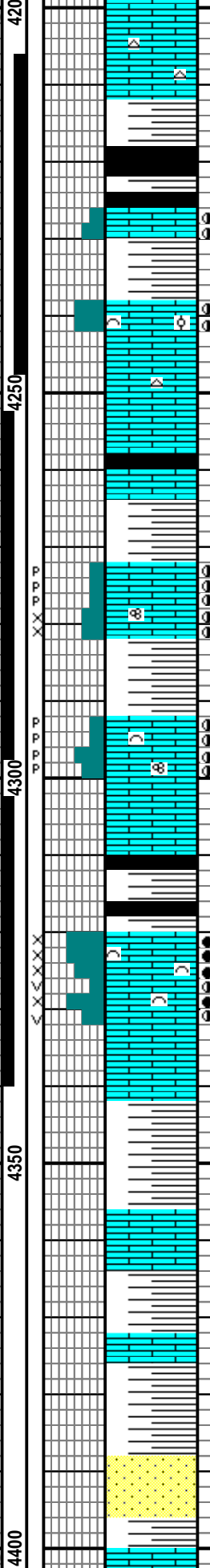
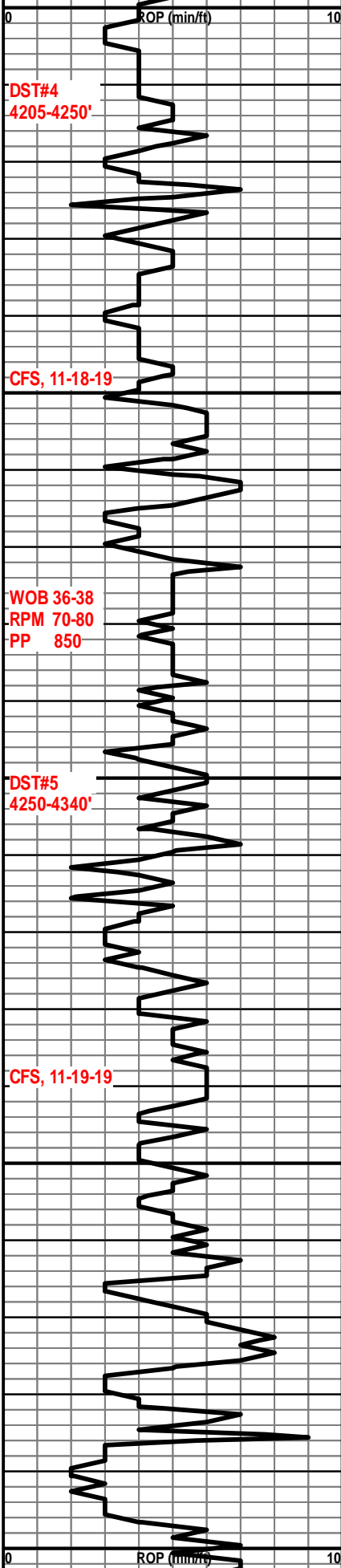
DST#2
4105-4145'

CFS

CFS
11-17-19

DST#3
4145-4170'

G ZONE
4190(-1035) S



LS crm,hd,blky,crptoxln,p por,ns abnt CHT wh

SH gn,sft,arg,abnt blk,frm,carb

LS tan,v hd,v dns,blky,ns some chky p vis por,v spty live brn stn,g cut & odor,tr free oil

SH gn,sft,v arg,blk aa

GRAINSTONE crm,frm,foss, fr intg foss por,spty live brns tn,g cut & odor,tr free oil

LS crn,hd,dns,chky ip,ns abnt CHT wh with thin SH ,dk gy blk

SH gn,red,gy,arg,some blk carb

LS crm,hd,dns,chky ip,sl foss,p pp vuggy intg foss por,spty live brn stn,g cut

SH gn,red,arg

LS crm,v hd,dns,some p pp vuggy foss por,spty live brn stn,g cut & odor,fr show free oil

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

Sh gn,sft,v arg some blk carb

GRAINSTONE crm,frm,v foss, fr-g intg & xln por,even-spty live brn stn,g odor,v g flash cutg show free oil

LS crm,v hd,dns,p por,ns

SH red,gn,some blk,frm,fiss

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

SH red,gn,frm,fiss with thin LS aa

SS pale gn,frm,vfg,clay filled,p vis por,ns

- SH aa

LS aa dns,ns

1 10 TG, C1-C5 100 1000

DST#4 4205-4250' LOWER G, G' & H -15-30-60-60 min.
IH 2075 IF 33-90 (BOB 13 min) ISI 1239 (1" BB) FF 94-219 (40" blw) FSI 1228 (3" BB) FH 2011
REC: 155' GIP & 464' TOTAL FLUID, 139' CO, 139' OCWM (10% OIL) & 186' OCMW (10% OIL)

H ZONE 4238(-1083) S

MUD DATA 4250' WT 9.0 VIS 63 FL 6.8 CK 2 PH 11.0 CL 3500 LCM 2.0

I ZONE 4272(-1117) S

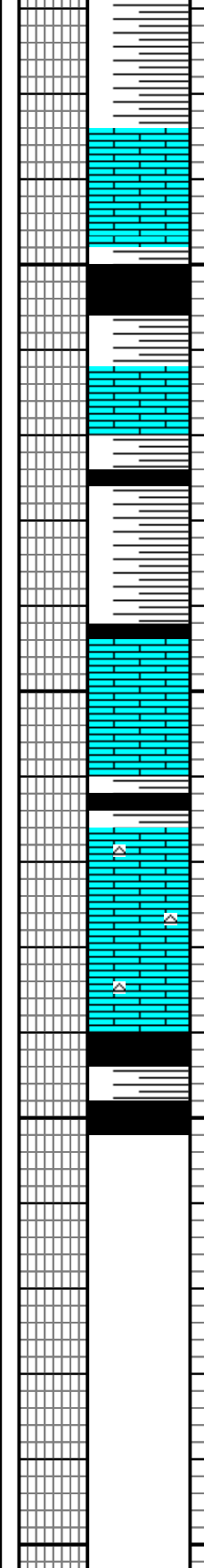
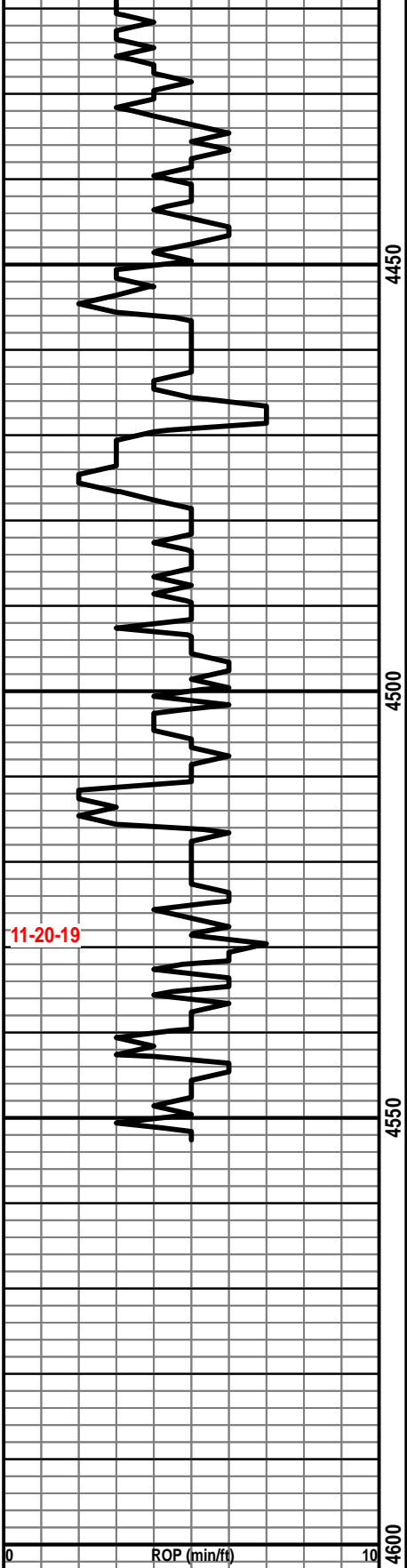
J ZONE 4292(-1137) S

DST#5 4250-4340' I, J & K ZONES -15-30-60-60 min.
IH 2064 IF 24-54 (BOB 15 M) ISI 305 (1"BB) FF 55-114 (59" blw) FSI 304 (10"BB) FH 2099
REC: 713' GIP, 155' GO & 124' GOCM

K ZONE 4319(-1164) S

MUD DATA 4340' WT 9.0 VIS 60 FL 6.8 CK 2 PH 10.5 CL 3600 LCM 2.0

1 10 TG, C1-C5 100 1000



SH red,sft,v arg some mottled with LS
aa

LS crm,hd,dns,ns

SH gn,v sft,v arg,some blk,carb

LS aa

SH aa abnt blk,carb

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

SH gn,blk,carb

LS crm-tan,v hd,dns,blky,chky ip,v abnt
CHT wh

4540-SH gn,sft,arg,abnt blk,frm,carb

