

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
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Brito Oil Company, Inc.
Well Name	WAILES FARMS 1-16
Doc ID	1487954

Tops

Name	Top	Datum
B/Anhydrite	3154	244
Stotler	3970	-572
Heebner	4224	-826
Lansing	4274	-876
Muncie Crk	4400	-1002
Stark	4481	-1083
BKC	4559	-1161
Marmaton	4570	-1172
Pawnee	4660	-1262
Ft. Scott	4720	-1322
Cherokee	4748	-1350
Mississippi	4954	-1556



DRILL STEM TEST REPORT

Prepared For: **Brito Oil Co Inc**

8100 E 22nd ST N STE 600-R
Wichita KS 67226

ATTN: Brad Rine

Wailes Farms #1-16

16-5s-37w Cheyenne,KS

Start Date: 2019.11.27 @ 23:18:00

End Date: 2019.11.28 @ 07:00:09

Job Ticket #: 65638 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.12.02 @ 11:24:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brito Oil Co Inc
8100 E 22nd ST N STE 600-R
Wichita KS 67226
ATTN: Brad Rine

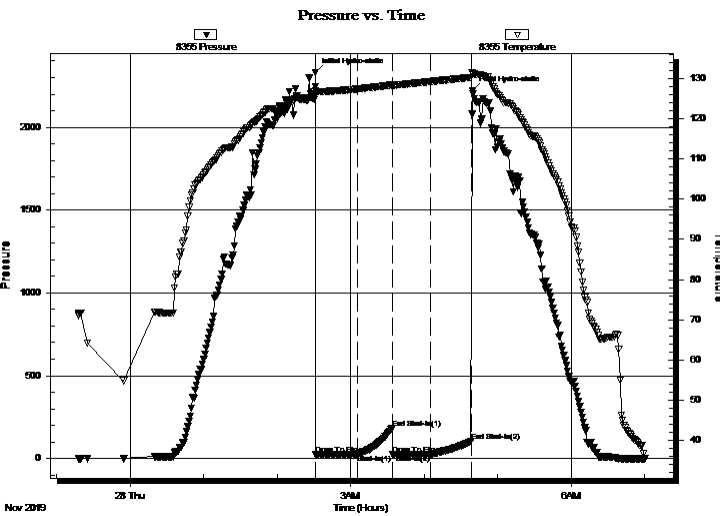
16-5s-37w Cheyenne,KS
Wailes Farms #1-16
Job Ticket: 65638 **DST#: 1**
Test Start: 2019.11.27 @ 23:18:00

GENERAL INFORMATION:

Formation: **LKC H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:31:40
Time Test Ended: 07:00:09
Interval: **4396.00 ft (KB) To 4485.00 ft (KB) (TVD)**
Total Depth: 4485.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Shawn Wheelbarger
Unit No: 76
Reference Elevations: 3398.00 ft (KB)
3393.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8355 Outside
Press@RunDepth: 26.76 psig @ 4397.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.11.27 End Date: 2019.11.28 Last Calib.: 2019.11.28
Start Time: 23:18:01 End Time: 07:00:10 Time On Btm: 2019.11.28 @ 02:31:20
Time Off Btm: 2019.11.28 @ 04:39:39

TEST COMMENT: 30-IF-1/2" Blow @ open built to 1 1/4" in 14 min remained 1 1/4"
30-ISI-No blow back
30-FF-No blow
30-FSI-No blow



PRESSURE SUMMARY

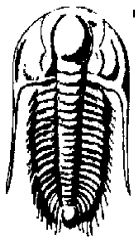
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2331.45	127.04	Initial Hydro-static
1	23.02	126.07	Open To Flow (1)
34	25.18	127.39	Shut-In(1)
63	183.51	128.40	End Shut-In(1)
64	26.78	128.35	Open To Flow (2)
94	26.76	129.25	Shut-In(2)
128	103.89	130.30	End Shut-In(2)
129	2219.34	131.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brito Oil Co Inc
 8100 E 22nd ST N STE 600-R
 Wichita KS 67226
 ATTN: Brad Rine

16-5s-37w Cheyenne,KS

Wailes Farms #1-16

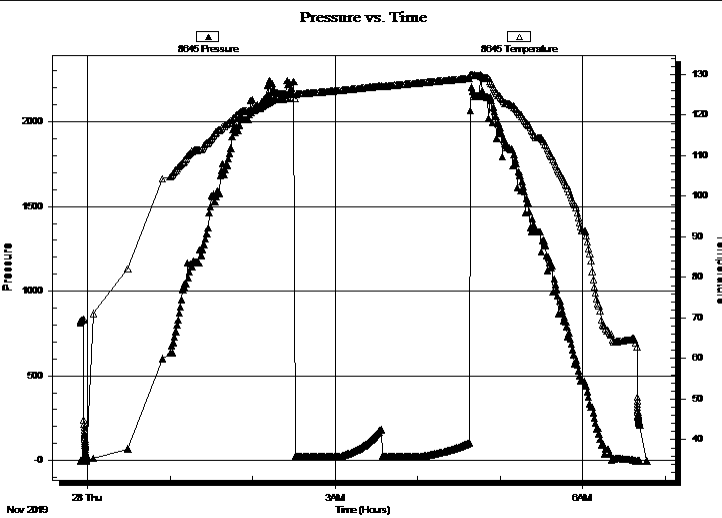
Job Ticket: 65638 **DST#: 1**
 Test Start: 2019.11.27 @ 23:18:00

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:31:40 Tester: Shawn Wheelbarger
 Time Test Ended: 07:00:09 Unit No: 76
 Interval: **4396.00 ft (KB) To 4485.00 ft (KB) (TVD)**
 Reference Elevations: 3398.00 ft (KB)
 Total Depth: 4485.00 ft (KB) (TVD) 3393.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8645 Inside
 Press@RunDepth: psig @ 4397.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.27 End Date: 2019.11.28 Last Calib.: 2019.11.28
 Start Time: 23:55:01 End Time: 06:46:24 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-1/2" Blow @ open built to 1 1/4" in 14 min remained 1 1/4"
 30-ISI-No blow back
 30-FF-No blow
 30-FSI-No blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brito Oil Co Inc
8100 E 22nd ST N STE 600-R
Wichita KS 67226
ATTN: Brad Rine

16-5s-37w Cheyenne,KS
Wailes Farms #1-16
Job Ticket: 65638 **DST#: 1**
Test Start: 2019.11.27 @ 23:18:00

Tool Information

Drill Pipe:	Length: 4203.00 ft	Diameter: 3.80 inches	Volume: 58.96 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 68000.00 lb
			Total Volume: 59.83 bbl	Tool Chased 20.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4396.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4369.00	
Shut In Tool	5.00			4374.00	
Hydraulic tool	5.00		Inside	4379.00	
Jars	5.00			4384.00	
Safety Joint	2.00			4386.00	
Packer	5.00			4391.00	28.00 Bottom Of Top Packer
Packer	5.00			4396.00	
Stubb	1.00			4397.00	
Recorder	0.00	8355	Outside	4397.00	
Recorder	0.00	8645	Inside	4397.00	
Perforations	20.00			4417.00	
Change Over Sub	1.00			4418.00	
Drill Pipe	63.00			4481.00	
Change Over Sub	1.00			4482.00	
Bullnose	3.00			4485.00	89.00 Bottom Packers & Anchor

Total Tool Length: 117.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brito Oil Co Inc
8100 E 22nd ST N STE 600-R
Wichita KS 67226
ATTN: Brad Rine

16-5s-37w Cheyenne,KS
Wailes Farms #1-16
Job Ticket: 65638 **DST#: 1**
Test Start: 2019.11.27 @ 23:18:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

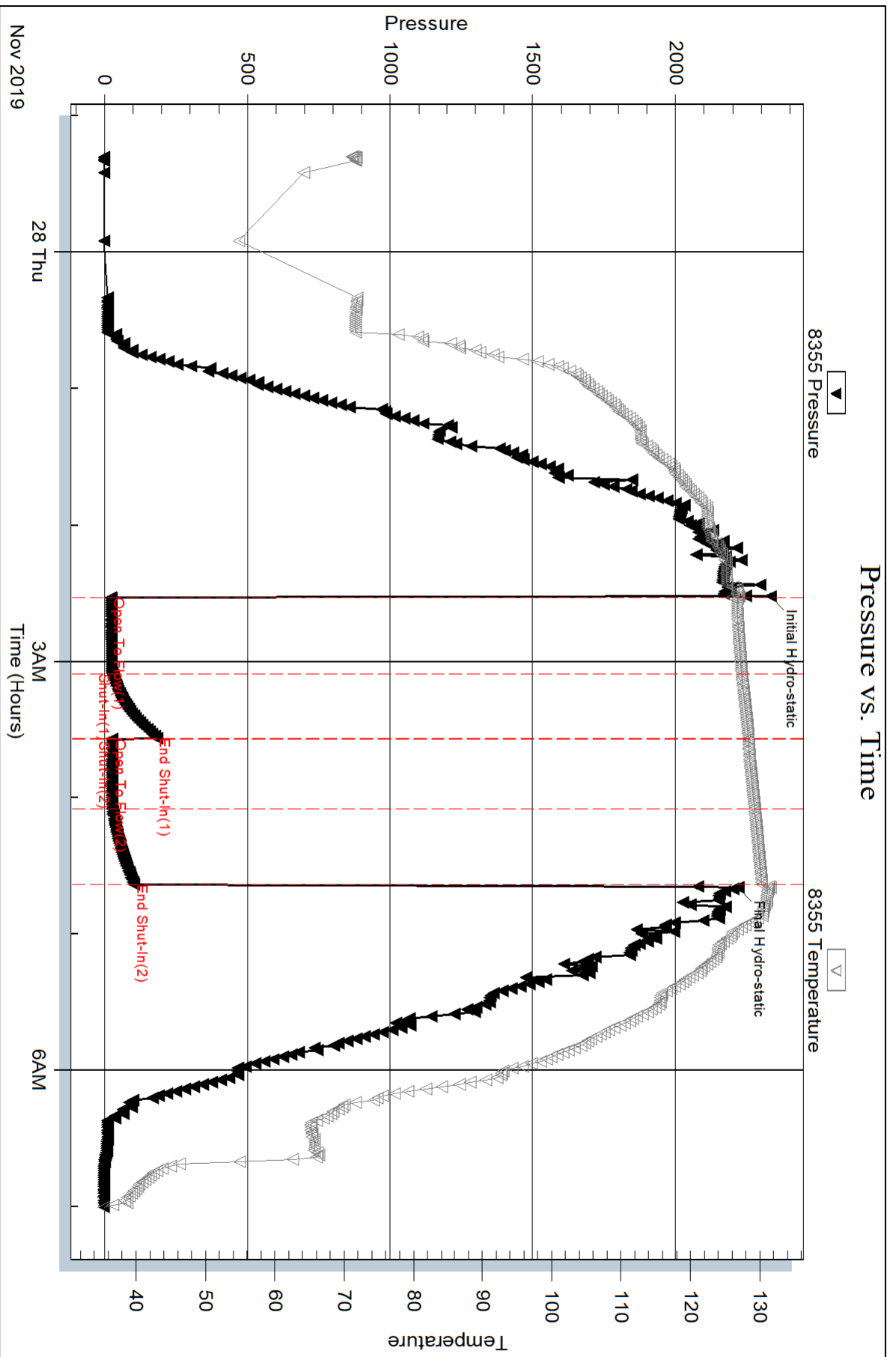
Length ft	Description	Volume bbl
10.00	Mud 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



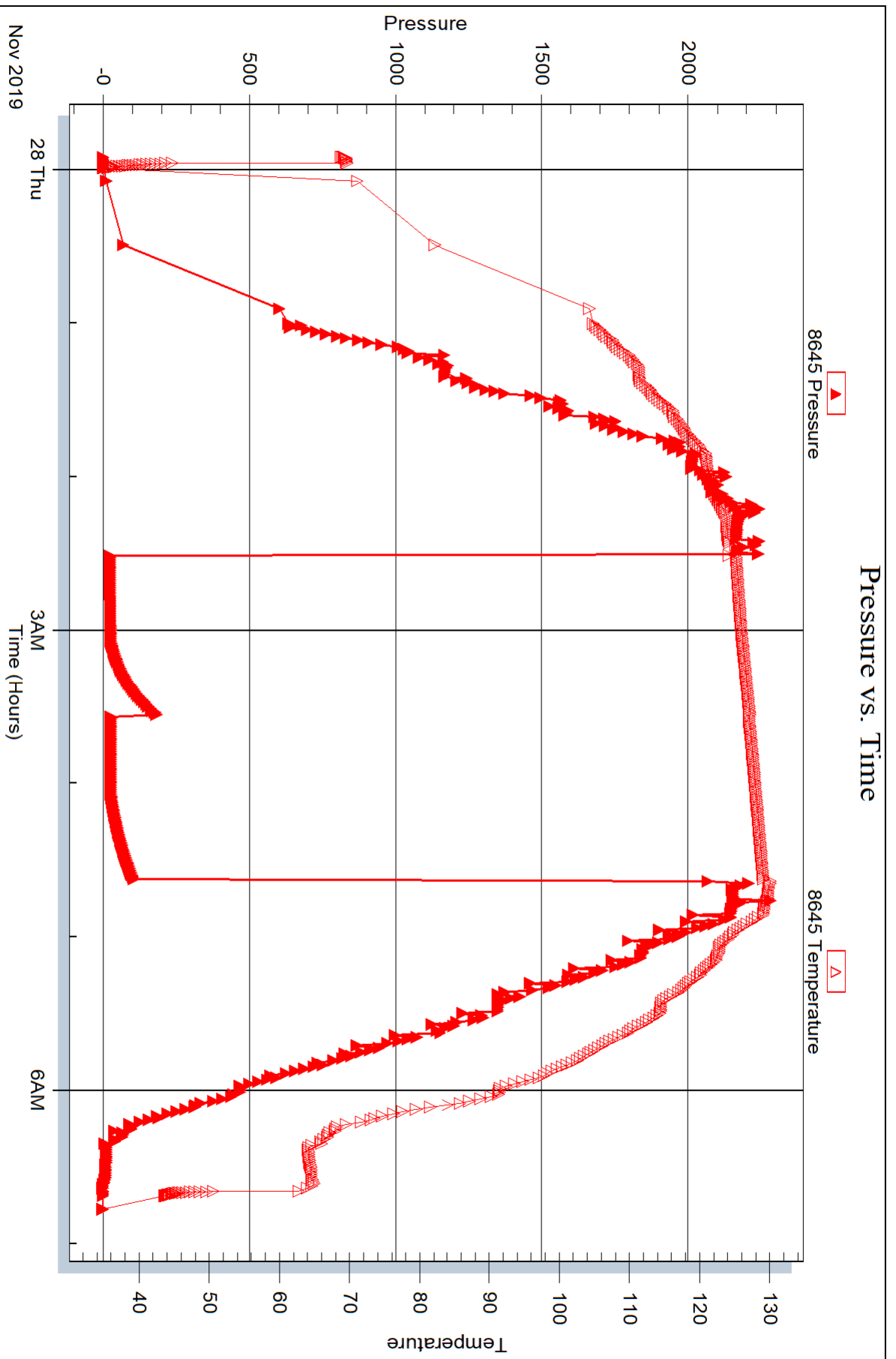
Serial #: 8645

Inside

Brito Oil Co Inc

Wales Farms #1-16

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Brito Oil Co Inc**

8100 E 22nd ST N STE 600-R Wichita KS
67226

ATTN: Brad Rine

Wailes Farms #1-16

16-5s-37w Cheyenne KS

Start Date: 2019.11.29 @ 02:18:00

End Date: 2019.11.29 @ 11:24:00

Job Ticket #: 65639 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.12.02 @ 11:14:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brito Oil Co Inc
 8100 E 22nd ST N STE 600-R Wichita KS 67226
 ATTN: Brad Rine

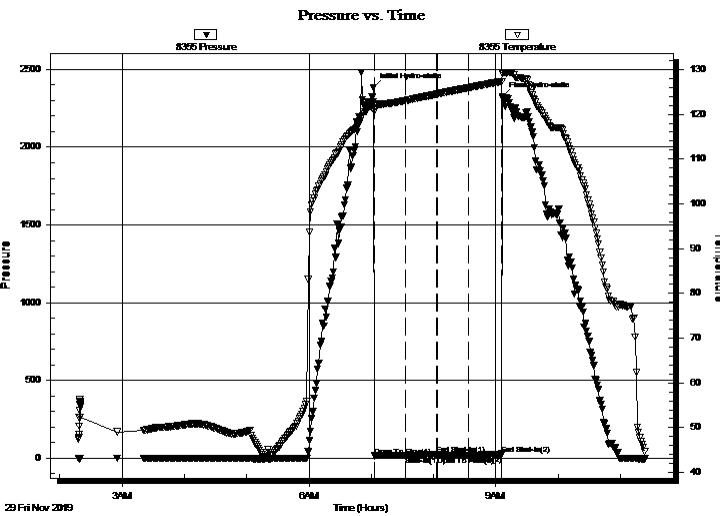
16-5s-37w Cheyenne KS
Wailes Farms #1-16
 Job Ticket: 65639 **DST#: 2**
 Test Start: 2019.11.29 @ 02:18:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:03:00
 Time Test Ended: 11:24:00
 Interval: **4643.00 ft (KB) To 4680.00 ft (KB) (TVD)**
 Total Depth: 4680.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shawn Wheelbarger
 Unit No: 76
 Reference Elevations: 3398.00 ft (KB)
 3393.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8355 Outside
 Press@RunDepth: 17.55 psig @ 4644.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.29 End Date: 2019.11.29 Last Calib.: 2019.11.29
 Start Time: 02:18:01 End Time: 11:24:00 Time On Btm: 2019.11.29 @ 07:02:09
 Time Off Btm: 2019.11.29 @ 09:06:30

TEST COMMENT: 30-IF-Surface blow @ open built to 1 1/2"
 30-ISI-Weak surface blow @ 11 min declined @ 15 min
 30-FF-Weak surface blow @ 5 minutes declined @ 10 minutes
 30-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2385.02	122.38	Initial Hydro-static
1	15.20	120.63	Open To Flow (1)
31	16.03	123.07	Shut-In(1)
61	28.07	124.50	End Shut-In(1)
62	16.21	124.51	Open To Flow (2)
91	17.55	125.92	Shut-In(2)
124	28.28	127.35	End Shut-In(2)
125	2326.69	129.15	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brito Oil Co Inc
 8100 E 22nd ST N STE 600-R Wichita KS 67226
 ATTN: Brad Rine

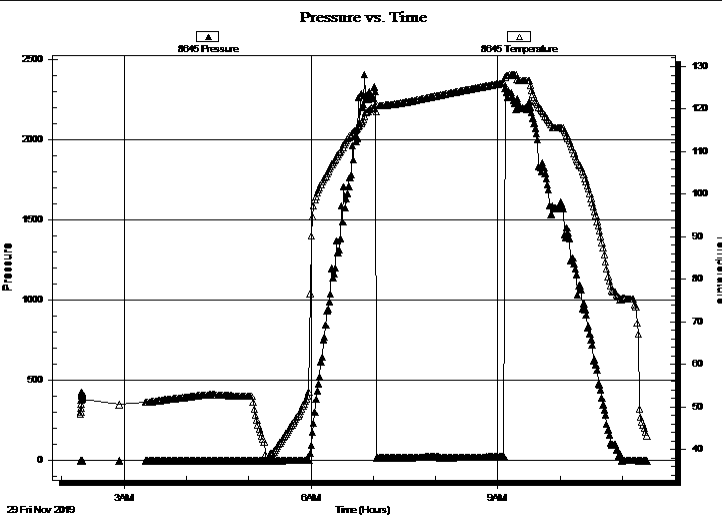
16-5s-37w Cheyenne KS
Wailes Farms #1-16
 Job Ticket: 65639 **DST#: 2**
 Test Start: 2019.11.29 @ 02:18:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:03:00
 Time Test Ended: 11:24:00
 Interval: **4643.00 ft (KB) To 4680.00 ft (KB) (TVD)**
 Total Depth: 4680.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shawn Wheelbarger
 Unit No: 76
 Reference Elevations: 3398.00 ft (KB)
 3393.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8645 Inside
 Press@RunDepth: psig @ 4644.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.29 End Date: 2019.11.29 Last Calib.: 2019.11.29
 Start Time: 02:18:01 End Time: 11:23:49 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Surface blow @ open built to 1 1/2"
 30-ISI-Weak surface blow @ 11 min declined @ 15 min
 30-FF-Weak surface blow @ 5 minutes declined @ 10 minutes
 30-FSI-No blow back



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

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

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brito Oil Co Inc

16-5s-37w Cheyenne KS

8100 E 22nd ST N STE 600-R Wichita KS 67226

Wailes Farms #1-16

Job Ticket: 65639

DST#: 2

ATTN: Brad Rine

Test Start: 2019.11.29 @ 02:18:00

Tool Information

Drill Pipe:	Length: 4453.00 ft	Diameter: 3.80 inches	Volume: 62.46 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 63.33 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4643.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	37.00 ft				
Tool Length:	65.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Was told start pulling @ 12:30 am pulled tight they had to run a short trip

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4616.00	
Shut In Tool	5.00			4621.00	
Hydraulic tool	5.00		Inside	4626.00	
Jars	5.00			4631.00	
Safety Joint	2.00			4633.00	
Packer	5.00			4638.00	28.00 Bottom Of Top Packer
Packer	5.00			4643.00	
Stubb	1.00			4644.00	
Recorder	0.00	8355	Outside	4644.00	
Recorder	0.00	8645	Inside	4644.00	
Perforations	33.00			4677.00	
Bullnose	3.00			4680.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brito Oil Co Inc

16-5s-37w Cheyenne KS

8100 E 22nd ST N STE 600-R Wichita KS 67226

Wailes Farms #1-16

Job Ticket: 65639

DST#: 2

ATTN: Brad Rine

Test Start: 2019.11.29 @ 02:18:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 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 bbl
1.00	Mud 100%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

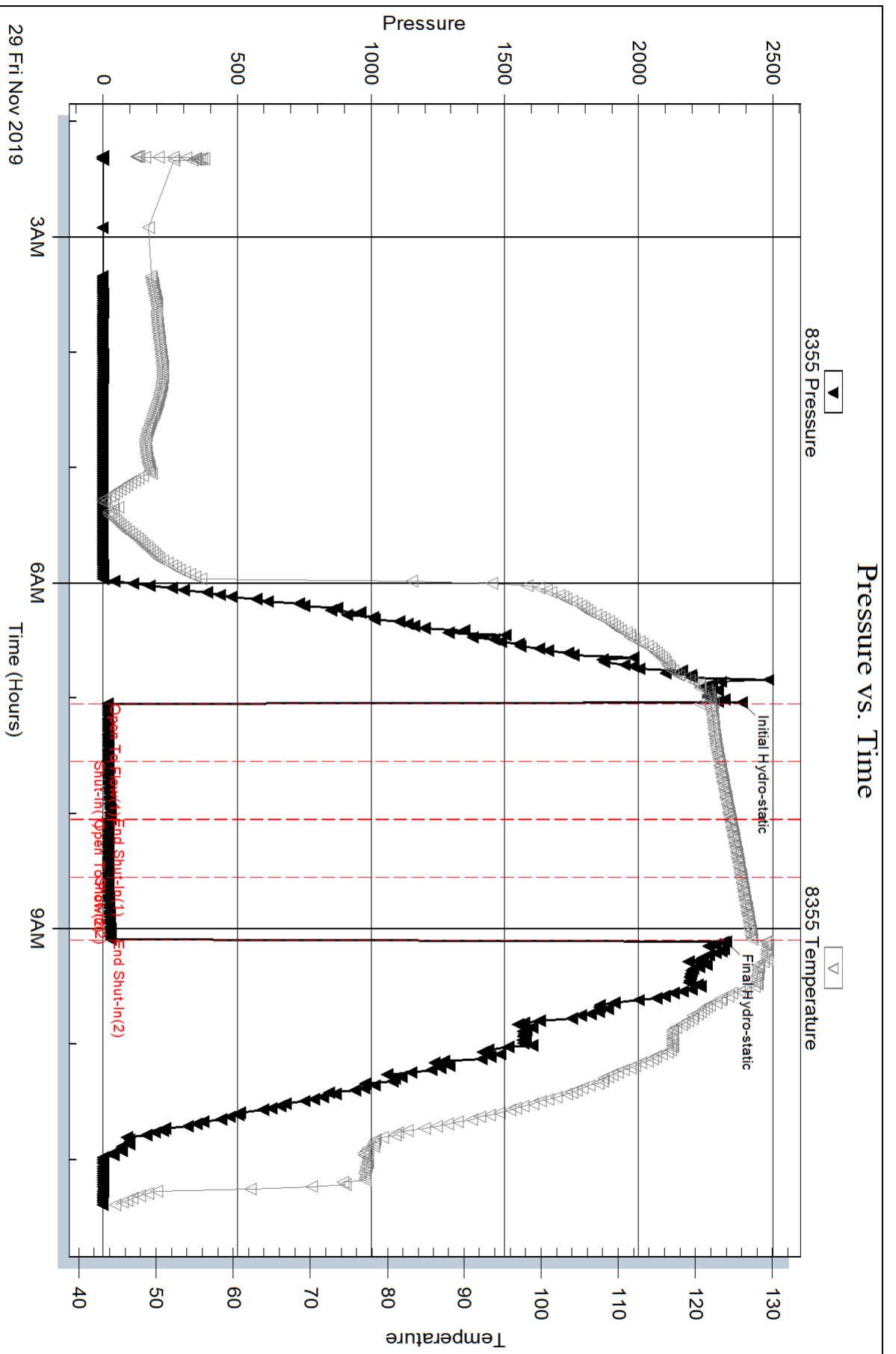
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



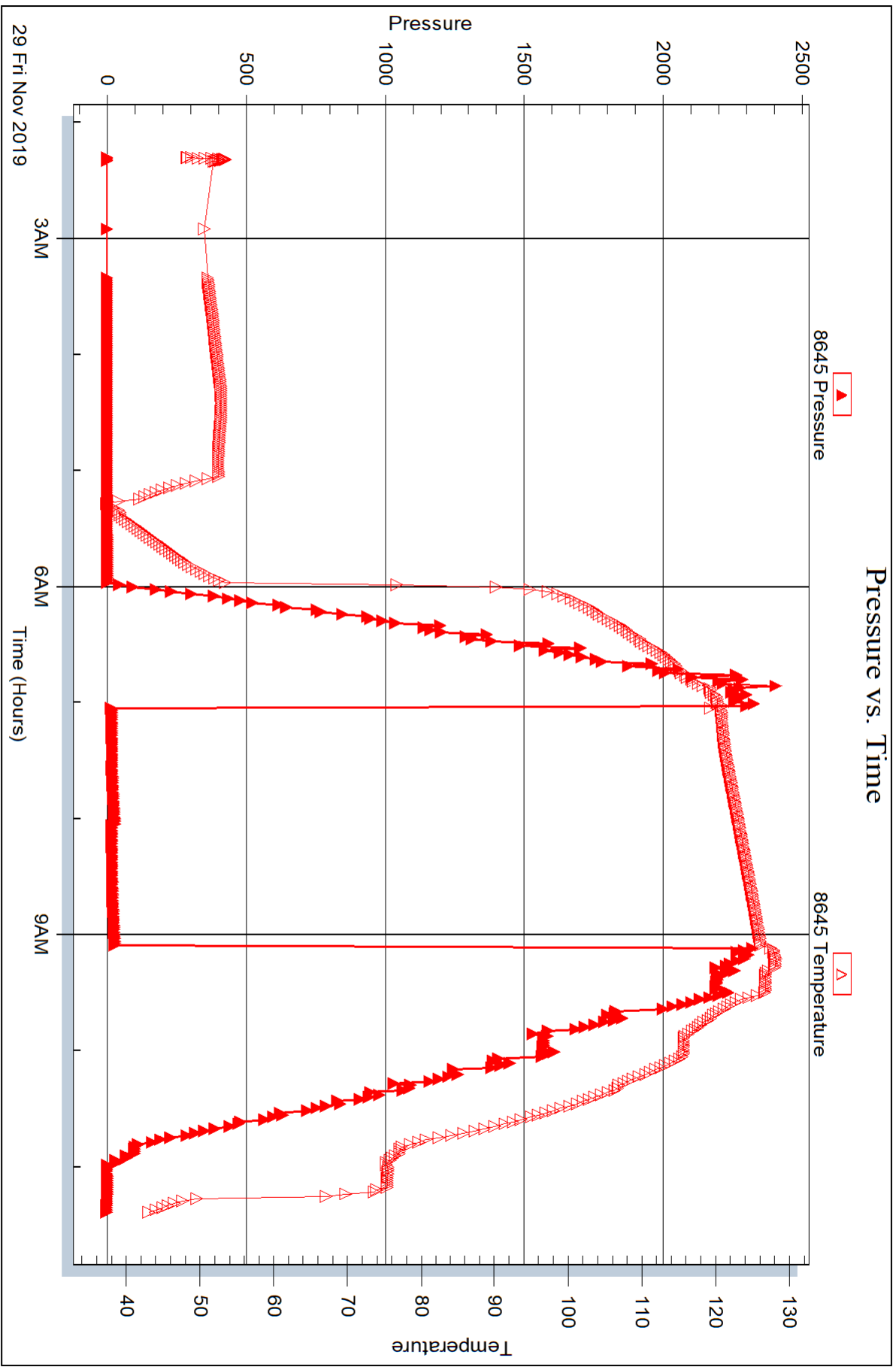
Serial #: 8645

Inside

Brito Oil Co Inc

Wales Farms #1-16

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Brito Oil Co Inc**

8100 E 22nd ST N STE 600-R Wichita KS
67226

ATTN: Brad Rine

Wailes Farms #1-16

16-5s-37w Cheyenne KS

Start Date: 2019.11.30 @ 23:23:00

End Date: 2019.12.01 @ 08:09:30

Job Ticket #: 65640 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.12.02 @ 11:11:52

Brito Oil Co Inc
16-5s-37w Cheyenne KS
Wailes Farms #1-16
DST # 3
Myrick Station
2019.11.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brito Oil Co Inc
 8100 E 22nd ST N STE 600-R Wichita KS 67226
 ATTN: Brad Rine

16-5s-37w Cheyenne KS
Wailes Farms #1-16
 Job Ticket: 65640 **DST#: 3**
 Test Start: 2019.11.30 @ 23:23:00

GENERAL INFORMATION:

Formation: **Myrick Station**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:48:40
 Time Test Ended: 08:09:30
 Interval: **4680.00 ft (KB) To 4736.00 ft (KB) (TVD)**
 Total Depth: 5000.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Shawn Wheelbarger
 Unit No: #76
 Reference Elevations: 3398.00 ft (KB)
 3393.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8355

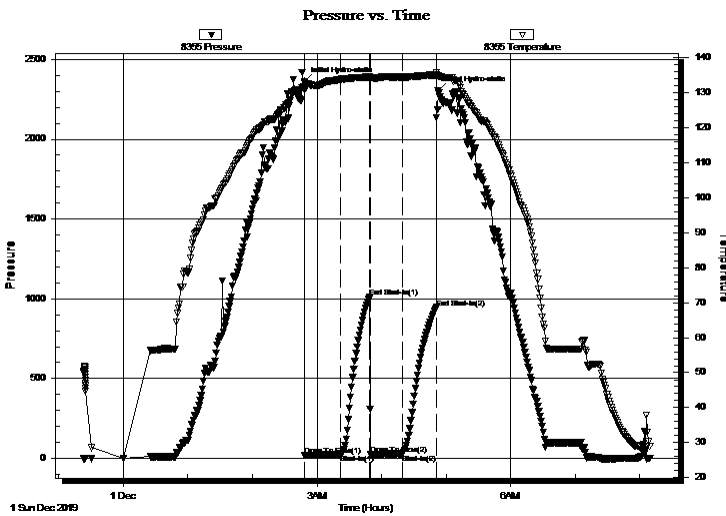
Outside

Press@RunDepth: 28.29 psig @ 4681.00 ft (KB)
 Start Date: 2019.11.30 End Date: 2019.12.01
 Start Time: 23:23:01 End Time: 08:09:30
 Capacity: 8000.00 psig
 Last Calib.: 2019.12.01
 Time On Btm: 2019.12.01 @ 02:48:30
 Time Off Btm: 2019.12.01 @ 04:52:30

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

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2361.28	131.50	Initial Hydro-static
1	18.44	130.82	Open To Flow (1)
34	23.09	133.78	Shut-In(1)
61	1008.94	134.47	End Shut-In(1)
61	25.76	134.33	Open To Flow (2)
91	28.29	134.46	Shut-In(2)
123	945.43	135.08	End Shut-In(2)
124	2306.14	134.87	Final Hydro-static



Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brito Oil Co Inc

16-5s-37w Cheyenne KS

8100 E 22nd ST N STE 600-R Wichita KS 67226

Wailes Farms #1-16

Job Ticket: 65640

DST#: 3

ATTN: Brad Rine

Test Start: 2019.11.30 @ 23:23:00

Tool Information

Drill Pipe:	Length: 4482.00 ft	Diameter: 3.80 inches	Volume: 62.87 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 63.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4680.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	4734.00 ft			
Interval between Packers:	54.00 ft			
Tool Length:	350.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4653.00	
Shut In Tool	5.00			4658.00	
Hydraulic tool	5.00		Inside	4663.00	
Jars	5.00			4668.00	
Safety Joint	2.00			4670.00	
Packer	5.00			4675.00	28.00 Bottom Of Top Packer
Packer	5.00			4680.00	
Stubb	1.00			4681.00	
Recorder	0.00	8355	Outside	4681.00	
Recorder	0.00	8645	Inside	4681.00	
Perforations	3.00			4684.00	
Change Over Sub	1.00			4685.00	
Drill Pipe	31.00			4716.00	
Change Over Sub	1.00			4717.00	
Perforations	16.00			4733.00	
Blank Off Sub	1.00			4734.00	54.00 Tool Interval
Packer	4.00			4738.00	
Packer - Shale	0.00			4738.00	
Stubb	1.00			4739.00	
Recorder	0.00	8791	Below	4739.00	
Perforations	8.00			4747.00	
Change Over Sub	1.00			4748.00	
Drill Pipe	250.00			4998.00	
Change Over Sub	1.00			4999.00	
Bullnose	3.00			5002.00	268.00 Bottom Packers & Anchor

Total Tool Length: 350.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brito Oil Co Inc

16-5s-37w Cheyenne KS

8100 E 22nd ST N STE 600-R Wichita KS 67226

Wailes Farms #1-16

Job Ticket: 65640

DST#: 3

ATTN: Brad Rine

Test Start: 2019.11.30 @ 23:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	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:

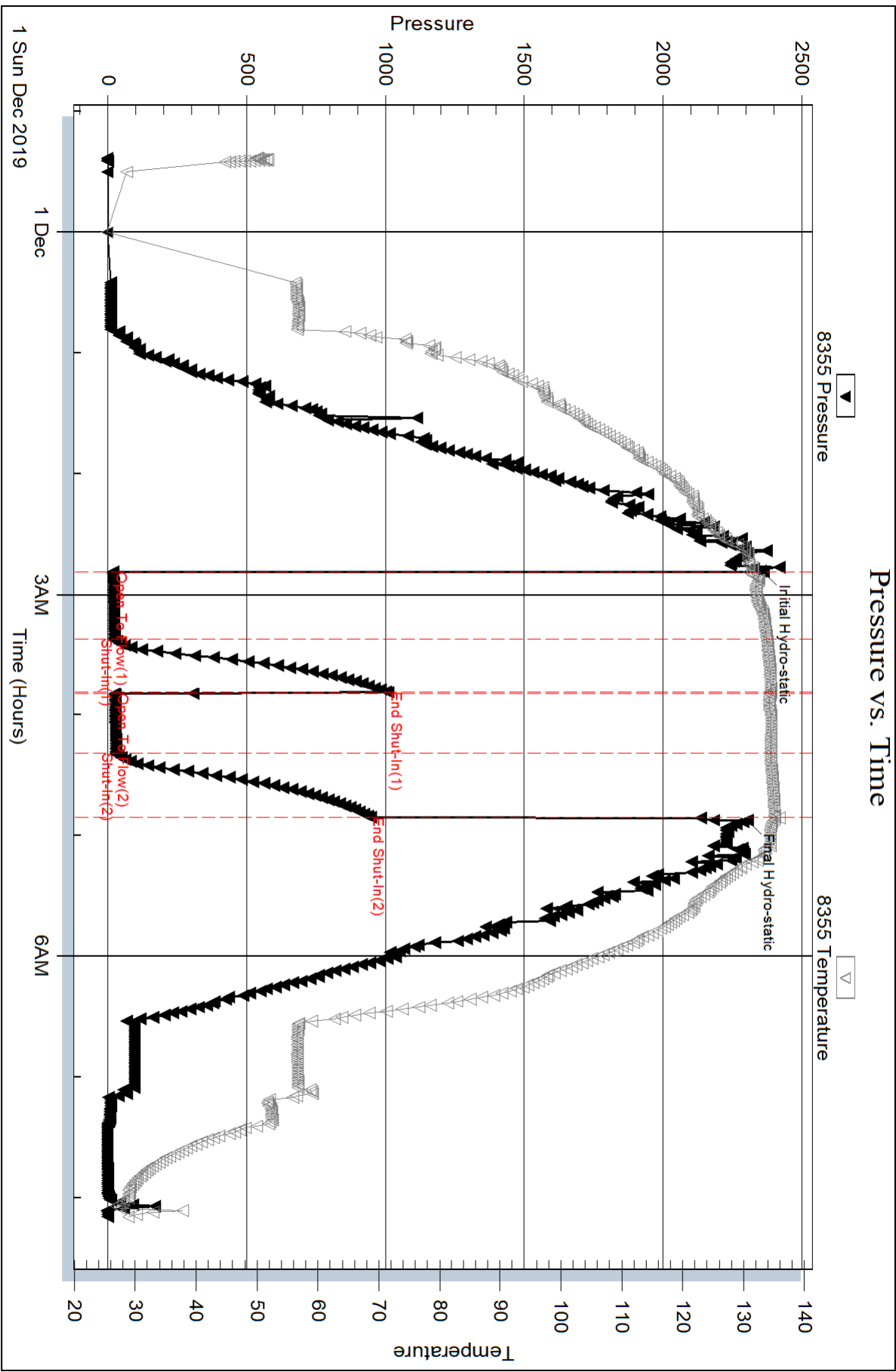
Serial #: 8355

Outside

Brito Oil Co Inc

Wales Farms #1-16

DST Test Number: 3



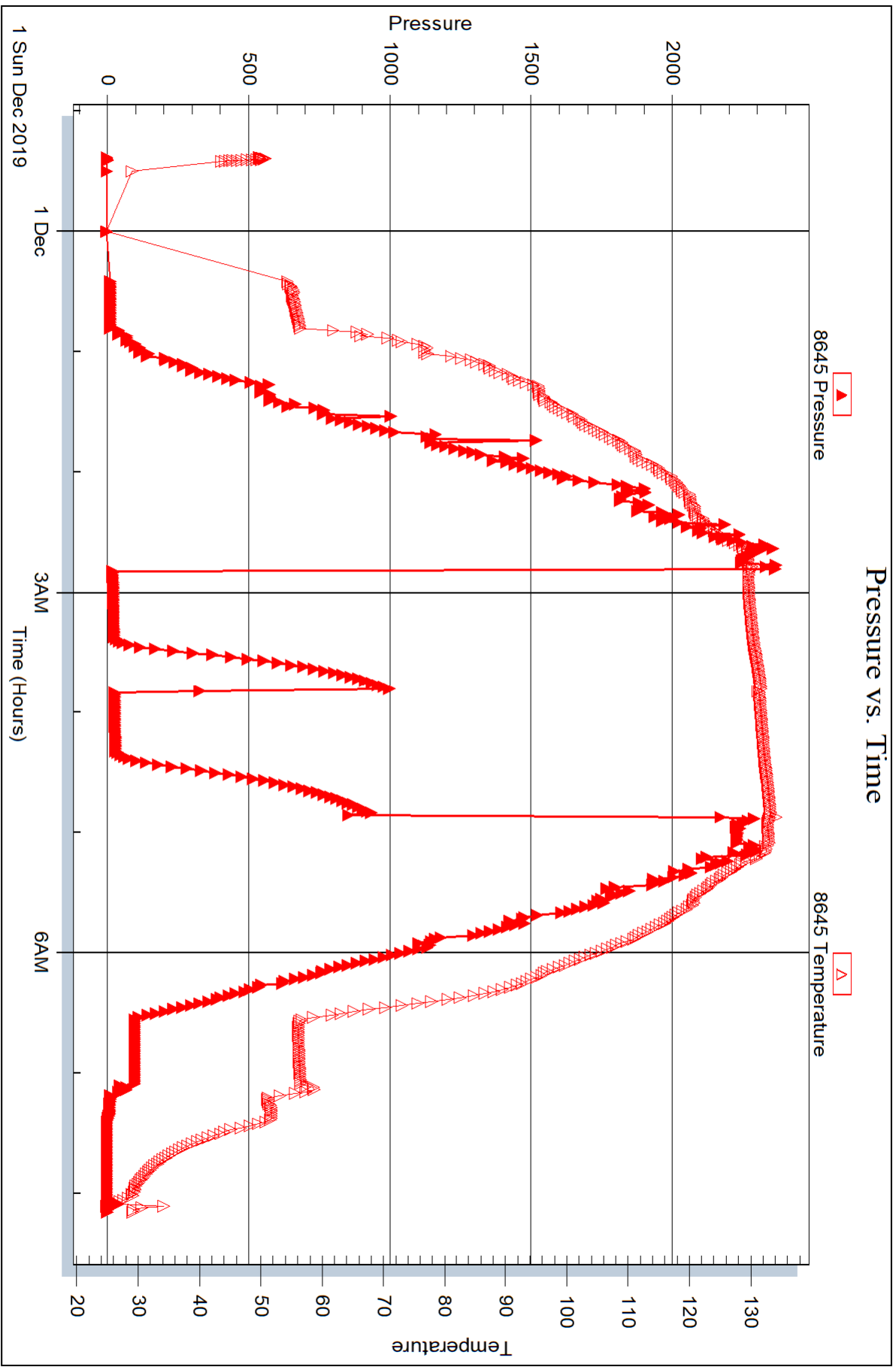
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Inside

Brito Oil Co Inc

Walls Farms #1-16

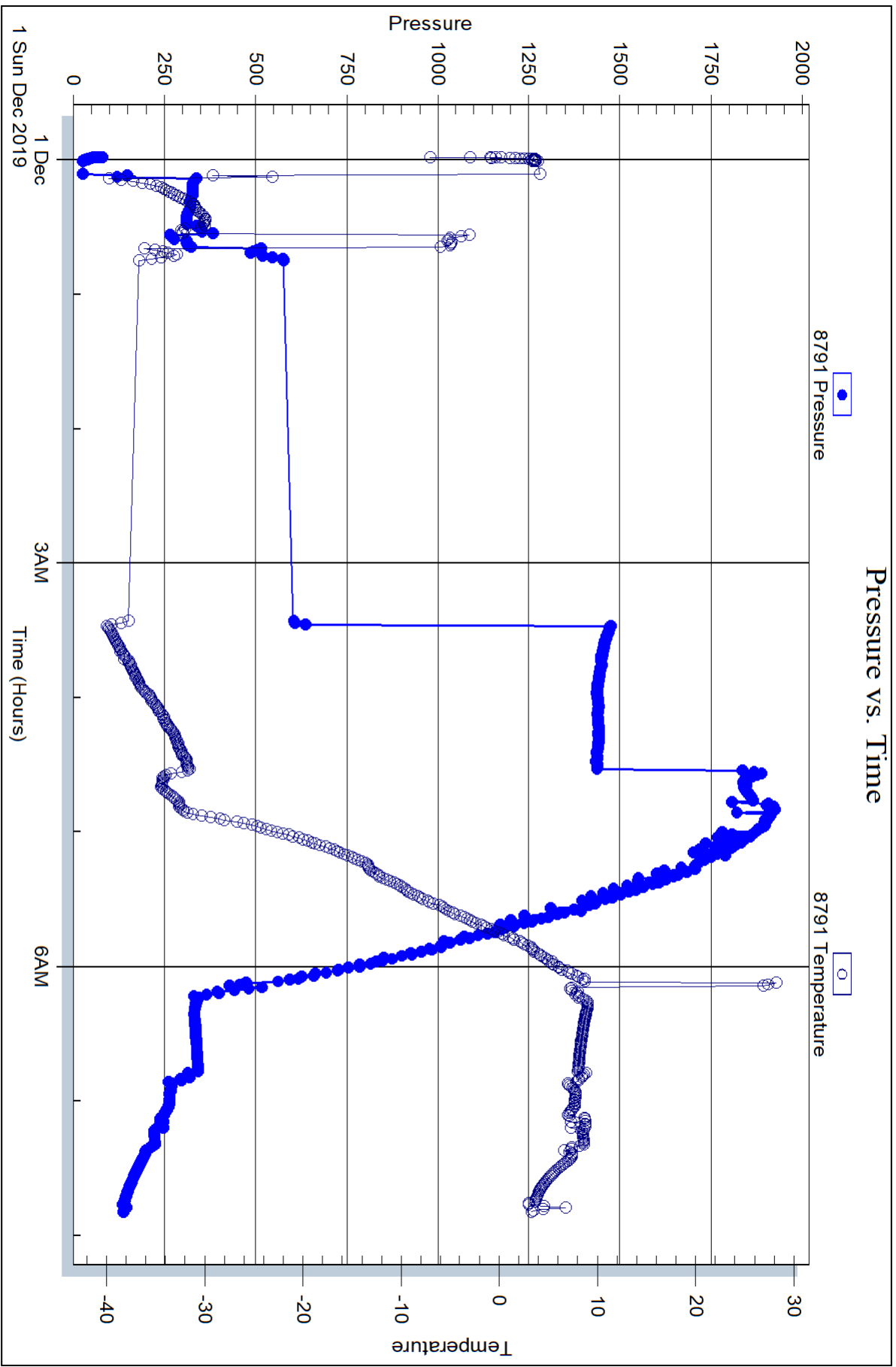
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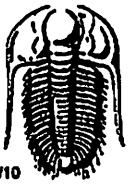


Triobite Testing, Inc

Ref. No: 65640

Printed: 2019.12.02 @ 11:11:54





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65638

Well Name & No. Wailes Farms #1-16 Test No. 1 Date 11-27-19
 Company Brito Oil Co Inc Elevation 3398 KB 3393 GL
 Address 8100 E 22nd ST N STE 600-R Wichita KS 67226
 Co. Rep / Geo. Brad Rine Rig Martin #3
 Location: Sec. 16 Twp 5S Rge. 37W Co. Cheyenne State KS

Interval Tested 4396 - 4485 Zone Tested LKC H-5
 Anchor Length 89 Drill Pipe Run 4203 Mud Wt. 9
 Top Packer Depth 4391 Drill Collars Run 177 Vis 54
 Bottom Packer Depth 4396 Wt. Pipe Run - WL 8.8
 Total Depth 4485 Chlorides 2000 ppm System LCM 1
 Blow Description IF 1/2" Blow @ open built to 1/4" in 14mhs remained 1/4"
ISI No blow back
FF No blow
FSI No blow

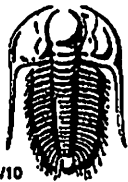
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 132 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2331</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>21:32 11-27</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:18 11-27</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:35</u>
(D) Initial Shut-In <u>184</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:35</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:58</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>126 RT</u> ¹²⁶	Comments <u>Tool Chased</u>
(G) Final Shut-In <u>104</u>	<input type="checkbox"/> Sampler	<u>20ft to bottom</u>
(H) Final Hydrostatic <u>2219</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1751</u>
	Sub Total <u>1751</u>	MP/DST Disc't

Approved By Brad Rine Our Representative Shawn Wheelburger
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65639

Well Name & No. Wales Farms #1-16 Test No. 2 Date 11-29-19
 Company Brito Oil Co. Inc Elevation 3398 KB 3393 GL
 Address 8100 E 22nd ST N STE 600-R Wichita KS 67226
 Co. Rep / Geo. Brad Rine Rig Murfin #3
 Location: Sec. 16 Twp 53 Rge. 37W Co. Cheyenne State KS

Interval Tested 4643-4680 Zone Tested Pawnee
 Anchor Length 37 Drill Pipe Run 4453 Mud Wt. 9.2
 Top Packer Depth 4638 Drill Collars Run 177 Vis 57
 Bottom Packer Depth 4643 Wt. Pipe Run - WL 10
 Total Depth 4680 Chlorides 3000 ppm System LCM .5

Blow Description IF Surface blow @ open built to 1 1/2"
ISI Weak surface blow @ 11 min declined @ 15 min
FF Weak surface blow @ 5 min declined @ 10 min
F-SI No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>			<u>100</u>	

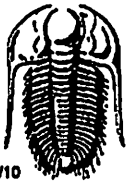
Rec Total 1 BHT 129 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>238.5</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>00:50</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2:18</u>
(C) First Final Flow <u>16</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:53</u>
(D) Initial Shut-In <u>28</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>8:53</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby <u>1/2h 50</u>	T-Out <u>11:10</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>126 RT</u> 126	Comments <u>Was told start pulling @ 12:30 pulled tight had to run short trip</u>
(G) Final Shut-In <u>28</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> EM Tool
(H) Final Hydrostatic <u>2327</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1801</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1801</u>	

Approved By Brad Rine Our Representative Shawn Wheelbarger

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65640

Well Name & No. Wales Farms #1-16 Test No. 3 Date 11-30-19
 Company Brito Oil Co Inc Elevation 3398 KB 3393 GL
 Address 8100 E 22nd St N STE 600-R Wichita KS 67226
 Co. Rep / Geo. Brad Rine Rig Murfin #3
 Location: Sec. 16 Twp 53 Rge. 37w Co. Cherokee State KS

Interval Tested 4680-4736 Zone Tested Myrich Station
 Anchor Length 56 264 Tail Drill Pipe Run 4482 Mud Wt. 9.4
 Top Packer Depth 4675 4680 Drill Collars Run 177 Vis 63
 Bottom Packer Depth 4736 Wt. Pipe Run - WL 7.2
 Total Depth 5000 Chlorides 2500 ppm System LCM 2
 Blow Description IF 1/4" Blow @ open built to 1 1/2"
ESI No blow back
FF No blow
FSE No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 135 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2361</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>21:45 11-30</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:23 11-30</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:49</u>
(D) Initial Shut-In <u>1009</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:49</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>7:55</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>126 RT</u> 126	Comments
(G) Final Shut-In <u>945</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2306</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> EM Tool
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2601</u>
	Sub Total <u>2601</u>	MP/DST Disc't

Approved By Brad Rine

Our Representative Shawn Wedbarger

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

Well Name: Wailes Farms #1-16 - Brito Oil Company, Inc.
API: 15-023-21526-00-00
Location: W2-E2-NE-NW, Section 16-T05W-R37W
License Number: KCC #4629
Spud Date: November 21, 2019
Surface Coordinates: 660' FNL & 2290' FWL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 3393 Ft. K.B. Elevation (ft): 3398 Ft.
Logged Interval (ft): 3800 Ft. To: 5000 Ft. Total Depth (ft): RTD 5000 Ft. LTD 5000 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical

Region: Cheyenne Co., Ks
Drilling Completed: December 01, 2019
Results: D & A
Field: Wildcat

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

Operator

Company: Brito Oil Company, Inc.
Address: 8100 E 22nd St. North, STE 600-R
Wichita, Kansas 67226-2324

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #320A
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator to plug and abandon the "Wailes Farms #1-16", on December 01, 2019.

Respectfully submitted,
M. Bradford Rine, geologist

Drilling Information

Rig: Murfin, #3
Pump: Emsco D-375
Drawworks: Ideco H35
Collars: 536' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Jay Ruzicka

Mud: Mudco (Reid Atkins)
Gas Detector: None
Drill Stem Tests: Trilobite (Shawn Wheelbarger)
Logs: Pioneer (D. Schmidt)
Water: Water Well on Location
Company Representatives:
Office: Raul Brito
Field: None

Daily Drilling Status

Date:	Operations/Depth/Comments
11-19-19	MIRT, Begin RU @ 0'
11-20-19	Finish Location and Drill Water Well @ 0'
11-21-19	Finish RU, Spud @ 0'
11-22-19	Waiting on Cement @ 344'
11-23-19	Drilling @ 1800'
11-24-19	Drilling @ 2995'
11-25-19	Drilling @ 3795'
11-26-19	Drilling @ 4210'
11-27-19	Circuating, Due to Winter Storm @ 4373'
11-28-19	Trip Out of Hole with DST #1 @ 4485'
11-29-19	On Bottom with DST #2 @ 4680'
11-30-19	Drilling @ 4935'
12-01-19	Trip Out of Hole with DST #3 @ 5000' Finish plugging at 4:00 PM

	Results: D & A			(Well A) D & A		Well A
	Brito Oil Company			L.D. Drilling , Inc.		
	Wailes Farms #1-16			#1-16 Wailes Farms, Inc.		
	660' FNL & 2290' FWL			663' FNL & 2121' FEL		
	Sec. 16-05S-37W			Sec. 16-05S-37W		
	KB 3398			KB 3420		Well A
Formations	Sample	E-Log	Datum	E-Log	Datum	Comp
Anhydrite	3118	3117	281	3136	284	-3
B/Anhydrite	3154	3155	243	3175	245	-2
Stotler	3970	3968	-570	3991	-571	1
Heebner Sh.	4224	4223	-825	4250	-830	5
Toronto	4239	4238	-840	4265	-845	5
Lansing	4274	4274	-876	4300	-880	4
Muncie Creek Sh.	4400	4400	-1002	4425	-1005	3
Stark Sh.	4478	4477	-1079	4504	-1084	5
B/Kansas City	4559	4558	-1160	4584	-1164	4
Marmaton	4570	4574	-1176	4598	-1178	2
Pawnee	4662	4663	-1265	4684	-1264	-1
Myrick Station	4699	4698	-1300	4726	-1306	6
Ft. Scott	4720	4719	-1321	4744	-1324	3
Cherokee Sh.	4748	4746	-1348	4771	-1351	3
B/Penn Lime	4891	4884	-1486	4916	-1496	10
Mississippian	4953	4950	-1552	4976	-1556	4
Total Depth	5000	5000	-1602	5042	-1622	20

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 8 jts 8-5/8" 23# new casing, set @ 344'. () Cement with 255 sx Class A, 3%CC, 2% gel. Cement did circulate. Plug down at 12:30 AM, November 22, 2019.

Production: Plugged w/ 245 sxs 60/40 poz 4% gel. 1st plug @ 3140' w/ 20 sxs, 2nd plug @ 2200' w/ 100 sxs, 3rd plug @ 400' w/ 50 sxs, 4th plug @ 10' w/ 10 sxs, RH 30 sxs, MH 15'sxs. Plug dwn at 4:00 PM, December 01, 2019.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	HTC	B37DX	0	344	5.25
2	7-7/8	Smith	MDI516	344	3715	54.00
3	7-7/8	Smith	F12Y	3715	5000	67.25

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	344'	0.25*	3715'
1.00*	826'	0.50*	4485'
3.00*	1359'	0.25*	5000'
1.25*	1453'		
1.00*	1950'		

PIPE STRAPS:

Difference:	depth:
0.83 ft.	3715 ft.

Mudup:

Displace @ 3500'

Completed @ 3520'

DST #1: 4396-4485 (LKC H,I,J)

Times: 30-30-30-30

***(slid tool 20 ft!)**

Initial Open: Wk Blow, Built to 1.25" i.b.

Final Open: No Blow

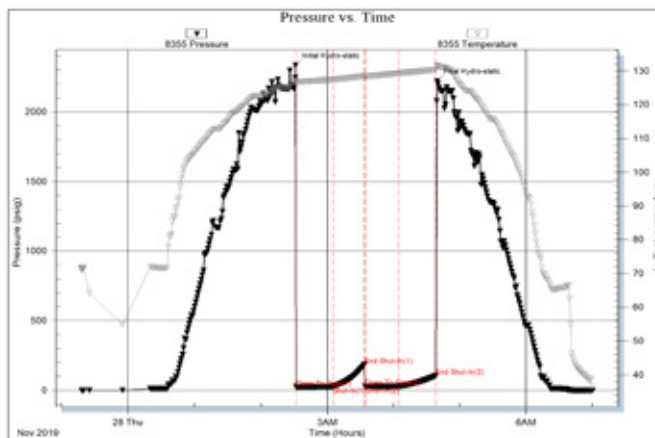
Rec: 10' mud

IHP: 2331 FHP: 2219

IFP: 23-25 FFP: 27-27

ISIP: 184 FSIP: 104

BHT: 132°F



DST #2: 4643-4680 (Pawnee)

Times: 30-30-30-30

Initial Open: Wk Blow, built to 1.50" i.b.

Final Open: Wk Surf Blow, died 5 min.

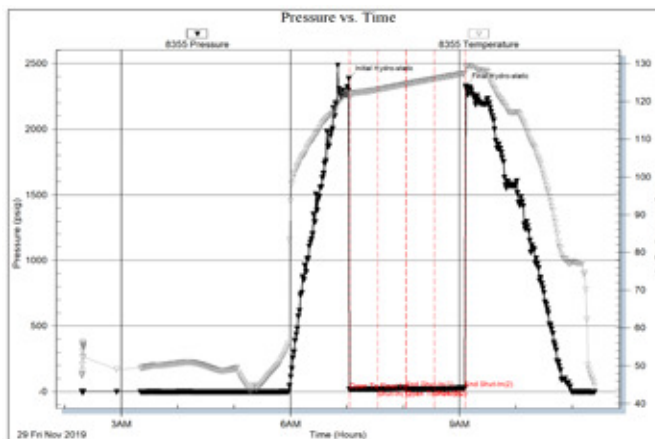
Rec: 1' mud

IHP: 2385 FHP: 2327

IFP: 15-16 FFP: 16-18

ISIP: 28 FSIP: 28

BHT: 129°F



DST #3: 4680-4736 (Myrick Station)

***Stradde Test after logs!**

Times: 30-30-30-30

Initial Open: Wk Blow, built to 1-1/2" i.b.

Final Open: No Blow

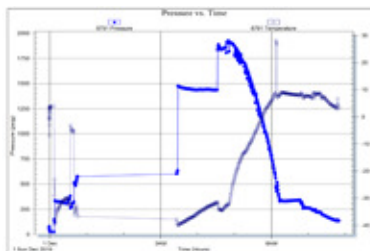
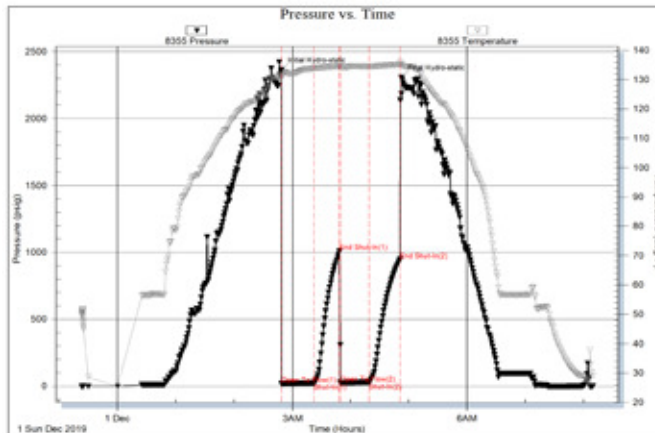
Rec: 5' mud

IHP: 2361 FHP: 2306

IFP: 18-23 FFP: 26-28

ISIP: 1009 FSIP: 945

BHT: 135°F



Rock Types

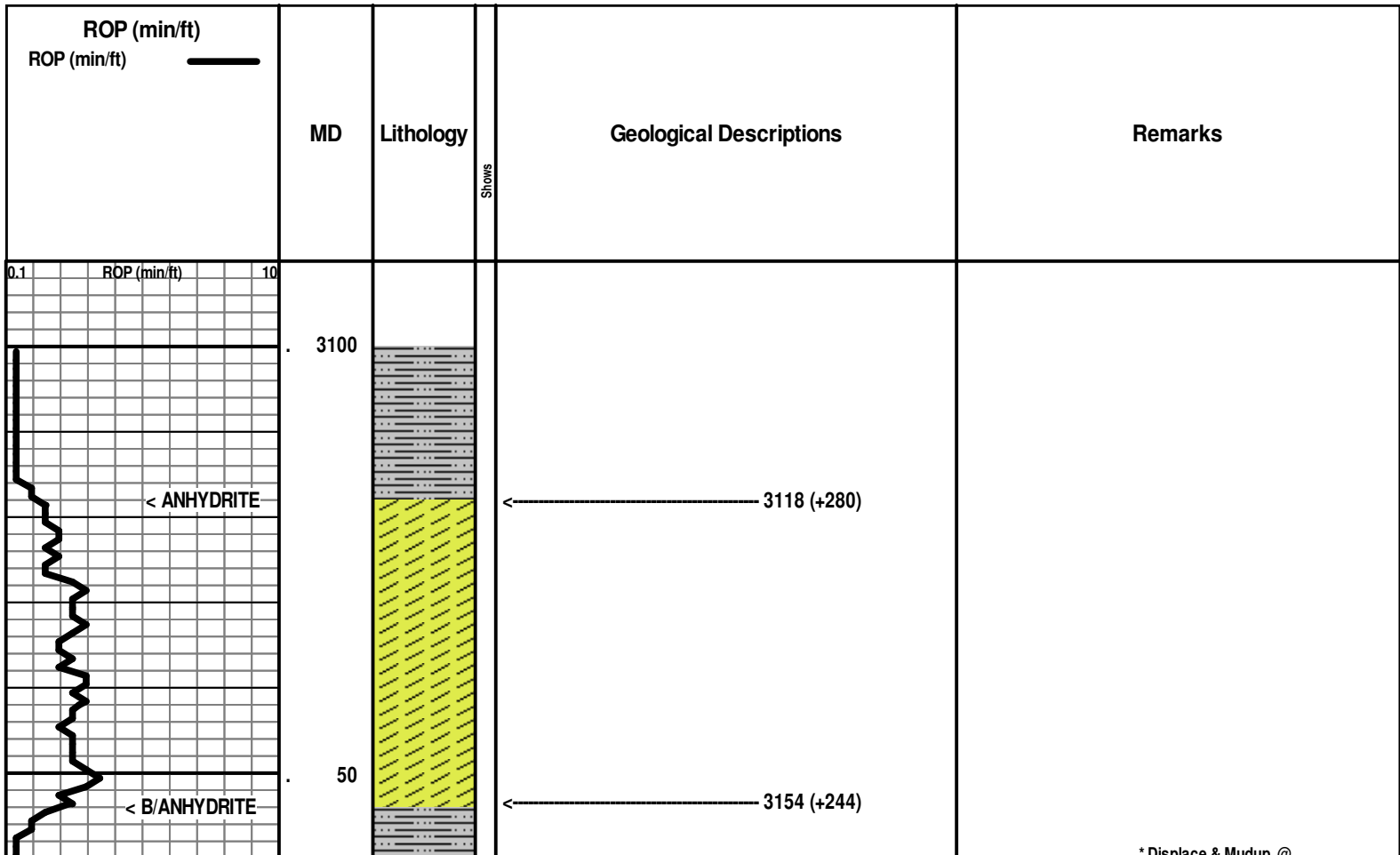
	Cgl/gran wash		Bent		Dol		Salt		Till
	Dol ls/lmy dol		Brec		Gyp		Shale		Siltysh
	New symbol		Cht		Igne		Shcol		Shlysiltst
	Dol ls/lmy dol		Clyst		Lmst		Shgy		Siltst
	New symbol		Blk sh/coal		Meta		Ss		Sandyls
	Anhy		Congl		Mrlst				

Accessories

MINERAL		Gyp	FOSSIL		Ostra		Siltstrg
	Anhy		Hvymin		Pelec		Ssstrg
	Arggrn		Kaol		Pellet	TEXTURE	
	Arg		Marl		Pisolite		Boundst
	Bent		Minxl		Plant		Chalky
	Bit		Nodule		Strom		Cryxln
	Brecfrag		Phos	STRINGER			Earthy
	Calc		Pyr		Anhy		Finexln
	Carb		Salt		Shale		Grainst
	Chtdk		Sandy		Bent		Lithogr
	Chtlt		Silt		Coal		Microxln
	Dol		Sil		Dol		Mudst
	Feldspar		Sulphur		Gyp		Packst
	Ferrpel		Tuff		Ls		Wackest
	Ferr				Mrst		
	Glau						

Other Symbols

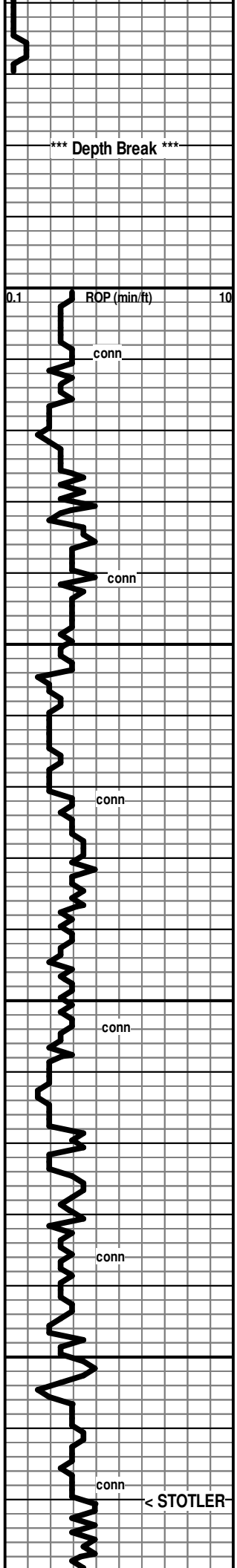
OIL SHOW		Even		Dead	INTERVAL		
	Oil & gas show		Spotted		Gas		Core
	Gas show		Trace or questionable				Dst



Bit Trip @ 3715 ft!

* Pipe Strap @ 3715': Short .83ft!

7:00 AM, November 25, 2019



3800

3850

3900

3950

< STOTLER

<3800-3870: 80% Shales, red-gy-grn, earthy to submushy to silty, 20% siltst and Ls, wh-gy, fn xln, mostly dns to pr xln por

Mud Check: Drlg @ 3841':

Vis	Wt	WL	LCM	PV	YP
52	8.5	6.4	4	18	15
Chl	Hd	pH	Solids		
1500	20	11.5	1.6		

3880' spl: 80% Ls wh-cr-gy, dolom in pt with mostly pr vis xln por-some fr xln por; 20% Shales as above

80% Ls wh-cr-gy, dolom in pt with mostly pr vis xln por-some fr xln por; 20% shales red, gy, gm

50% Shales, lt brn-red-grn-gy, silty in pt, some wh siltstone; 50% Ls, Wh-cr-tan, fn xln, pr-fr xln por subsucr in pt, silty in pt

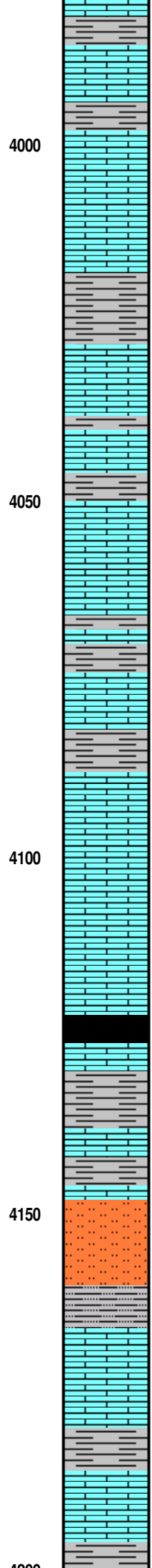
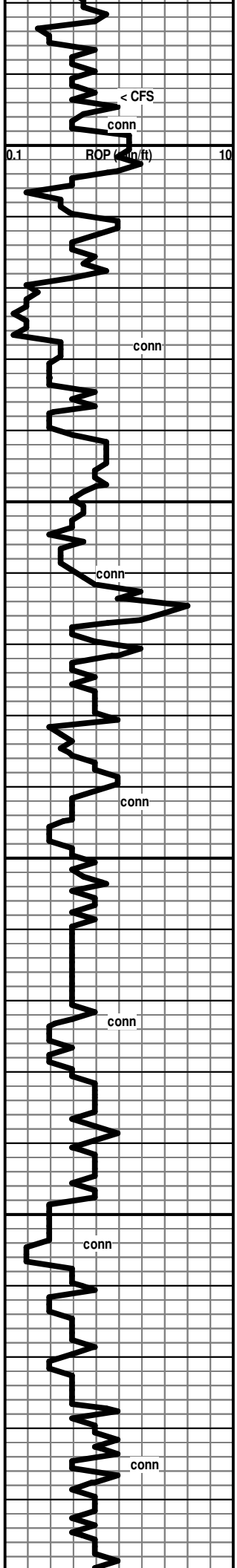
60% Shales, mostly gy-dky gy, some reddish to grn, silty in pt to shaley siltstone; Ls wh-cr, fn xln, pr xln por

60% Shales gy-red, earthy-silty, mushy-soft-subfirm; 40% Ls wh-cr, fn xln, pr xln por, foss-abund foss

<----- 3970 (-572)
Ls wh-cr, fn xln, chalky in pt, pr xln por in pt, dns in pt, foss

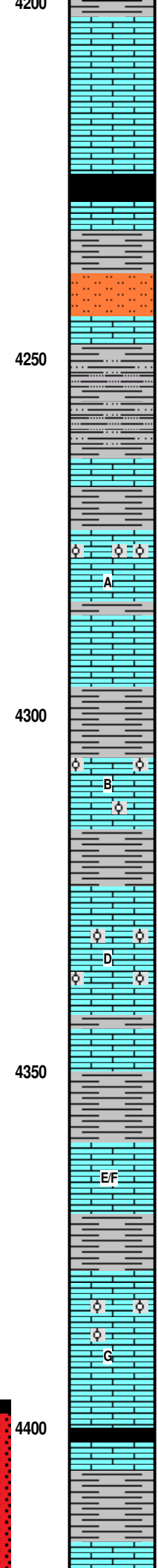
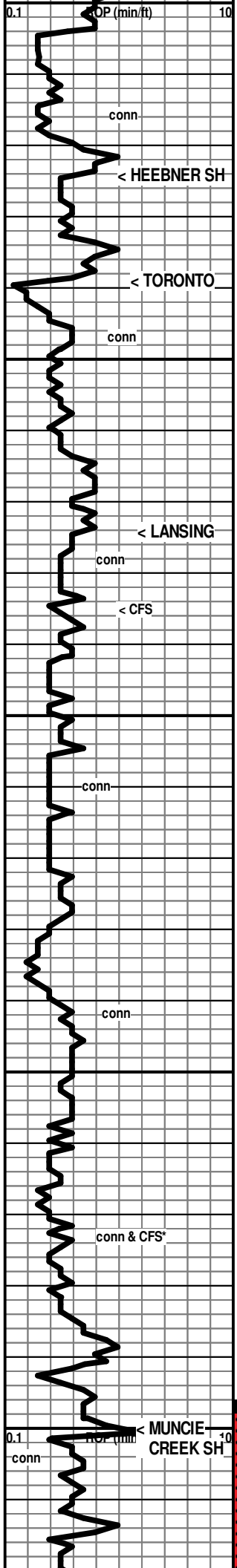
Show Descr. ----->

[3990' spl: No Odor, mod am't of dk brn-blk spotty & patchy stn, Low % pcs with v sli shows of brn FO, mod am't of pcs with si shows of NVL/deadish oil, No fluor]



shale
Sh gy-red
Ls wh-cr, fn xln, pr xln por to dns, foss & ool
4000' spl, 80% shales and silty shale: red-gr-gm; 20% Ls wh-cr, fn xln, mostly dns, some pr xln por, foss
Ls wh-cr, fn xln, gritty text & subsucr text in pt, pr-fr xln por in pt, dns in pt,
Ls wh-cr-pl gy, fn xln, subchalky in pt, dns in pt, pr-fr xln por in pt, sli foss in pt; Low % of spls of shale red-gy
Sh red-gy-gm, silty to earthy text
Ls wh-cr, fn xln, pr xln por to dns, foss
Sh red, soft to mushy
4050
Ls wh, fn xln, pr xln por, scatt pp pores, foss
D [4070' spl: No Odor, no fluor, mod am't of pcs with black spotty stn of Dead Resid/Gilson, NSFO]
Sh red
Ls wh-cr, fn xln, dns to prxln por, foss to abund foss in pt
Sh red-gy-gm
4100
Ls wh-cr-pl gy,fn xln, dns in pt, pr xln por in pt, foss
Sh dk gy-black, carb to subcarb
Ls wh-cr-tan-brn, fn xln, dns, foss
Sh red, mushy to soft
Sh gy, silty
4150
Siltstone & mostly shaley siltstone, red
Ls wh, fn xln, dns, foss
Sh gy-red
Ls wh=gy, vfn-fn xln, dns
Sh red, silty

No fluor



4200 Ls wh-cr, fn xln, pr xln por, foss
 [4210' spl: No Odor, No Fluor, scatt black resid/gilson stn, NSFO]

Ls wh-cr, fn xln, abund chalky and soft, some with pr-fr xln por, grainy in pt, foss

← 4224 (-826)
 Sh black, carb (trace in 4230' spl, abund in 4240' spl)

Sh gy-red

← 4239 (-841)
 Siltstone, pl red-wh, some calc cem, shaley in pt

Ls wh, fn xln, dns with Rr patches of v pr xln por
 [No Odor, No Fluor, Rr small patches of dk brn-blk spotty stn, NSFO]

Shale & shaley Shaley Siltstone, mostly red, some gy-grn

Ls wh,fn xln, dns with scatt pp pores, foss
 [No Odor, No Fluor, Rr small patches of dk brn-blk spotty stn, some spots tarry, NSFO]

Sh red, mushy to soft

← 4274 (-876)

Ls wh-cr, fn xln, abund chalky & soft, abund dns, scatt pr xln por, scatt transl calcite fully filled pores, foss, some oolitic & pelletoidal pcs
 No Odor, No fluor, Rr pcs with spots of resid/gilson/tarry blk stn, NSFO]

Sh gy-grn, argill to subsilty

Sh red-grn, silty in pt

Ls wh, fn xln, pr-fr xln por,scatt pp pores, foss, fnly ool in pt

Sh gy-grn

Sh red, mushy-soft, earthy to silty text

Ls wh-cr, fn xln, pr-fr xln por in pt, chalky in pt, foss, ool in pt
 [No Odor, No fluor, V Rr pcs with spots of blk tarry/resid stn]

Ls wh-cr, fn xln, mostly dns, foss

Sh red-gr-grn, earthy to silty, soft to subfirm

Ls wh fn xln, pr-fr xln por in pt, chalky in pt, some pcs with red clay marbling, foss

Sh red-gy-grn

Ls wh, fn xln, pr vis xn por, abund ool (fn) mostly well-cem, Rr vis interool pores

Ls wh-cr-pl gy, fn xln, dns to pr xln por, chalky in pt, foss

← 4400 (-1002)
 Sh black, carb
 Ls cr, fn xln, dns, foss

Sh gy-grn-red-lav, subsilty & sdy to subargil to subwaxy

4430' spl: 95% shales as above; 05% Wh Ls

7:00 AM, November 26, 2019

* Nozzled plugged at connection!

Mud Check: Drlg @ 4252':

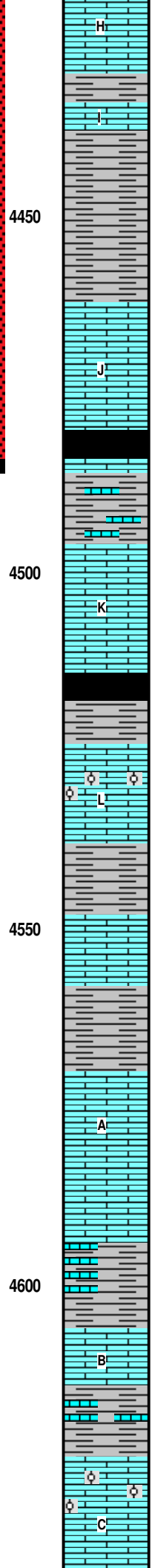
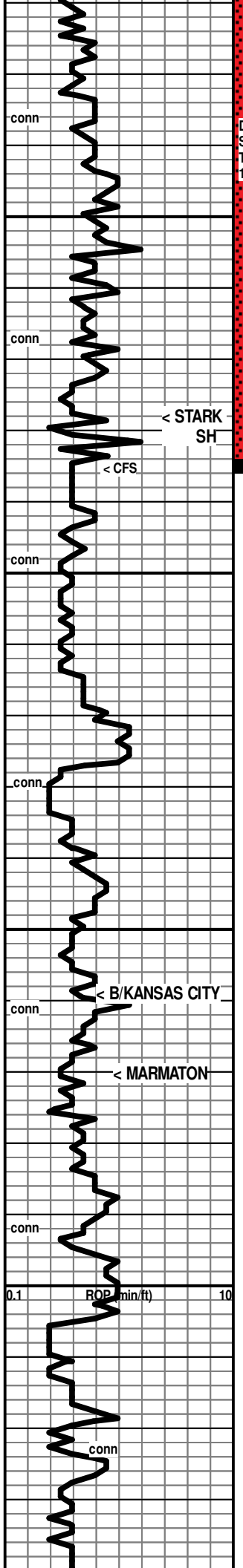
Vis	Wt	WL	LCM	PV	YP
62	9.4	10.0	1	15	20
Chl	Hd	pH	Solids		
2500	40	10.0	7.7		

* 4373': Shut Down, due to weather and road closures. Circulated approx 18 hours!

7:00 AM, November 27, 2019

Mud Check: Drlg @ 4290':

Vis	Wt	WL	LCM	PV	YP
54	9.0	8.8	1	16	16
Chl	Hd	pH	Solids		
2000	20	10.5	4.9		



4440' spl: 98% Shales as above (poss uphole?); 02% Ls wh, fn xln, dns to pr xln por, sli foss in pt
[No Odor, No fluor, Rr pcs with patches of blk spotty stn of resid/gilson, NSFO]

4450' spl: 98% Shales, red-gy-grn-lav, silty, sdy, subwaxy, subarg; 02% Ls wh-pl gy, fn xln, dns

4460' spl: 98% Shales, red-gy-grn-lav, silty, sdy, subwaxy, subarg; 02% Ls wh-pl gy, fn xln, dns

4470' spl: 95% Shales, red-gy-grn-lav, silty, sdy, subwaxy, subarg; 05% Ls wh-pl gy, fn xln, dns to pr xln por, foss in pt

10% Ls wh-cr, fn xln, mostly dns & pr xln por, some fr xln por, some subchalky pcs, foss; 90% Shales as above
[No Odor, Scatt dull fluor, few pcs with spotty to patchy brn stn, some with sli show of brn FO and v. sli gassy, some porous pcs barren]

4478 (-1080)

4500' spl: 99% Shales mostly gy-dk gy-blk, some red-grn & lav, silty to sdy in pt; Tr of Ls wh, dns

4510' spl: 90% Shales as above; 10% Ls wh-cr, fn xln, dns, foss

4520' spl: 90% Ls wh-cr-tan, fn xln, dns to pr xln por, foss to abund foss; 10% Shales

Ls wh-cr-pl gy, fn xln, mostly dns, some pr xln por, foss

Sh gy-grnish, some red

Ls wh-cr, fn xln, abund dns to pr xln por, some chalky, foss in pt, ool in pt

Sh gy-grn-red

4550' spl: Ls wh-cr-pl gy, fn xln, pr xln por to dns with scatt pp pores, foss to abund foss

4559 (-1161)

Sh red-gy-grn

Sh mostly red, mushy-soft, some gy-grn

4570 (-1172)

Ls cr-tan-pl gy, fn xln, pr xln por to dns, scatt sm transl calcite rhombs, foss

Ls gy, fn xln, abund silty to grainy text, dns

Sh gy

Ls, shaley Ls, Limey shale, gy-pl gy, some silty text to sdy, dns

4600' spl: Ls wh-gy, fn xln, dns, sdy in pt

Sh gy-grn, calc in pt to shaley limestone

Ls wh-cr, fn xln, pr xln por, foss in pt

4630' spl: No Odor, No fluor, Rr pcs with scatt blk spots of resid/gilson stn, NSFO]

Ls cr-tan-gy, vfn-fn xln, pr xln por to dns, ool in pt, mostly well-cem with scatt interool pores

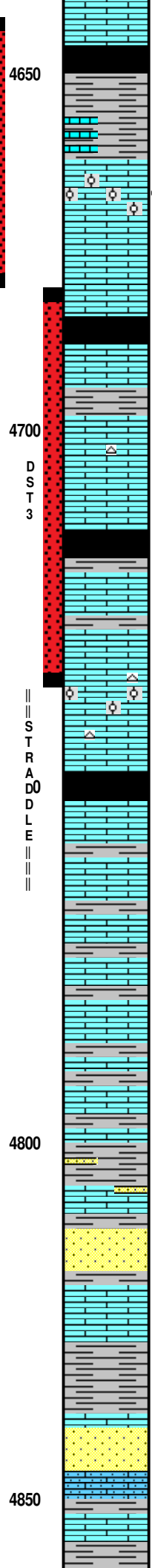
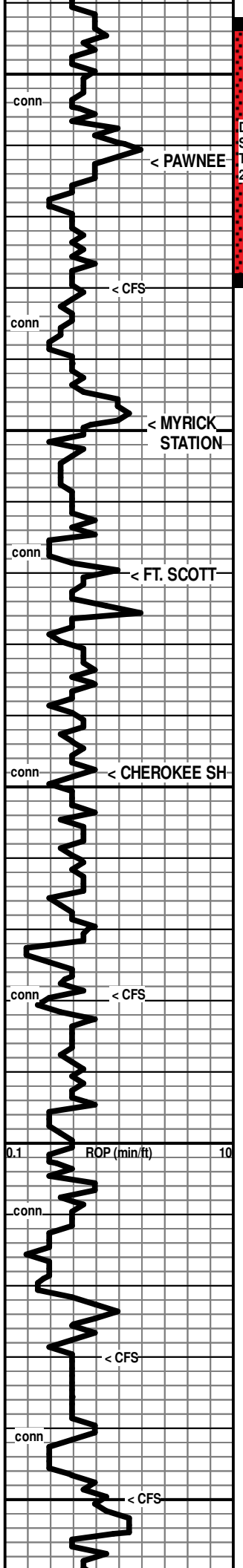
DST #1: 4396-4485 (LKC H,I,J)
 Times: 30-30-30-30
 *(slid tool 20 ft)
 Initial Open: Wk Blow, Built to 1.25" i.b.
 Final Open: No Blow
 Rec: 10' mud
 IHP: 2331 FHP: 2219
 IFP: 23-25 FFP: 27-27
 ISIP: 184 FSIP: 104
 BHT: 132°F

7:00 AM, November 28, 2019
 * 15 ft of fill, back on bottom with bit after DST1 @ 4485'!

Mud Check: Drlg @ 4521':

Vis	Wt	WL	LCM	PV	YP
57	9.2	10.0	.5	15	18
Chl	Hd	pH	Solids		
3000	40	9.5	6.3		

DST #2: 4643-4680 (Pawnee)
 Times: 30-30-30-30
 Initial Open: Wk Blow, built to 1.50" i.b.
 Final Open: Wk Surf Blow, died 5 min.
 Rec: 1' mud



Sh gy-black

Sh gy-dk gy
Ls wh-cr-tan-brn-gy, vfn-fn xln, mostly dns & hard, some softer & chalky, foss in pt

← 4662 (-1264)
Ls wh-cr, fn xln, pr vis xln por, chalky in pt, foss, ool in pt, Rr scatt interfoss & interool pores
Show Descr. →

Ls wh-cr-tan, fn xln, dns to pr vis xln por, chalky in pt, foss

Sh black, carb (abund in 4700' spl)

Ls cr-tan-brn-gy, fn xln, dns, foss

Sh gy-dk gy
← 4699 (-1301)

Ls wh-cr, fn xln, pr xln por to dns in pt, chalky to subchalky in pt, foss, chert: fresh, tan, subtransl, foss

Sh black, carb, (abund in 4730' spl)

← 4720 (-1322)
Ls wh-cr-tan, fn xln, mostly dns, Rr patches of pr xln por, V Rr pp pores, foss, chalky in pt
Show Descr. →

Ls cr-tan-gy, vfn-fn xln, mostly dns, some subchalky to chalky, foss

Ls cr-tan-gy, vfn-fn xln, mostly dns, some subchalky to chalky, foss, ool in pt, chert: fresh, tan, transl, spiculitic

← 4748 (-1350)
Sh black, carb (abund in 4760' spl)

Ls wh-cr-tan-brn-gy, fn xln, mostly dns, some pr xln por, some chalky, foss to abund foss
Show Descr. →

Ls wh-cr-tan-brn-gy, fn xln, mostly dns, some pr xln por, some chalky, foss to abund foss

Sh gy-dk gy-grn

65% Sh red-gy-grn; 35% Ls wh-cr-tan, fn xln, dns, foss in pt

85% Sh red-gr-grn-brt gm, silty to sdy in pt (slough? from uphole); 15% Ls wh-cr-tan, fn xln, dns, foss

85% Sh red-gr-grn-brt gm, silty to sdy in pt (slough? from uphole); 10% Ls wh-cr-tan, fn xln, dns, foss; 05% Sd brnsh, fn gm, gd sort, subrd, fr-gd fri

Sh glassy-wh, fn-md gm, mix of pr-fr-gd sort, rd-subrd-subang, pr-fr-gd fri, scatt glauc, some qrtz frags, calc/limey in pt, cem in pt

Ls wh-cr-tan, fn xln, mostly dns & hard, some softer & chalky, foss in pt

Sh gy-grn-dk red, some yellow, silty to sdy in pt with some shaley sd

Sh glassy-wh, fn-md gm, mix of pr-fr-gd sort, rd-subrd-subang, pr-fr-gd fri, scatt glauc, some qrtz frags, calc/limey in pt, cem in pt, some sdy limestone

70% Shale, red gy gm, silty to sdy in pt; 20% Ls wh gy vfn-fn

IHP: 2385 FHP: 2327
IFP: 15-16 FFP: 16-18
ISIP: 28 FSIP: 28
BHT: 129°F

[4680' spls: V Fnt Odor, Low % pcs with mod-brt spotty to patchy fluor, Low % pcs with spotty to patchy lt brn stn with trace to v.sli shows of FO on brk, few pcs with Fr show of FO, some v.sli gassy]

7:00 AM, November 29, 2019

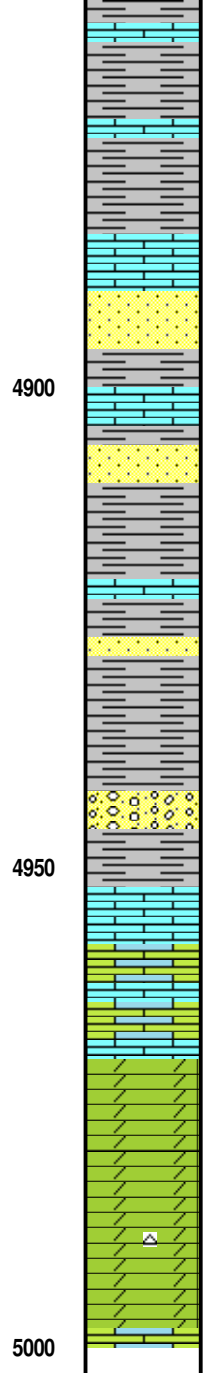
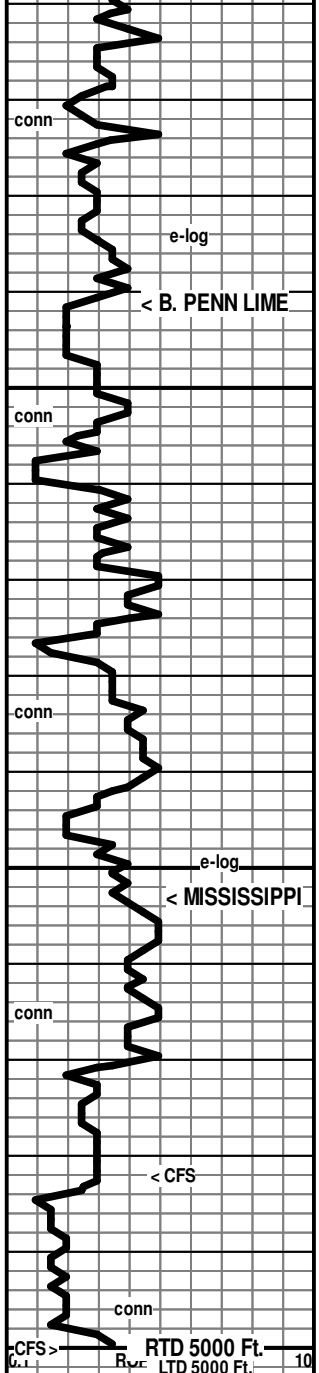
Mud Check: TIH/bit after DST2 @ 4680':
Vis Wt WL LCM PV YP
50 9.4 9.6 2 13 14
Chl Hd pH Solids
2000 20 10.0 7.7

* After review of e-logs, it is possible the show in 4730' spl may have originated from the Myrick Station, above?

* [4730' spl: No Odor, 2-3 pcs per tray with dull fluor and scant spots of brn stn, NSFO]

DST #3: 4680-4736 (Myrick Station)
*Stradde Test after logs!
Times: 30-30-30-30
Initial Open: Wk Blow, built to 1-1/2" i.b.
Final Open: No Blow
Rec: 5' mud
IHP: 2361 FHP: 2306
IFP: 18-23 FFP: 26-28
ISIP: 1009 FSIP: 945
BHT: 135°F

[No Odor, No fluor, found a few pcs total with trace of brn spots, NSFO]



70% Shales, red-gy-grn, silty to sdy in pt, 20% Ls wh-gy, v fn-fn xln, dns, sdy in pt; 10% Sd, wh-glassy-gy, fn gm, cem to fr intergrnlr por

75% Shales mostly gy-grn, some red; 25% Ls wh-gy-brn, v fn-fn xln, dns; Tr of sd

← 4891 (-1493)

Sd gy, fn gm, gd sort, subrd, fr-gd fri, some glauc, cem in pt; Spls mostly shales as above

4920' sp: 35% Sd wh-gy, fn gm, gd sort, subrd, fr-gd fri, cem in pt; 15% Ls wh-gy, dns; 50% Sh red-gm-gy-yell, subwaxy to earthy to silty

4930' spl: 98% Sh mostly gy-dk gy-black, soft (washes black), some red-gm

4940' spl: 45% Sh mostly gy, some red-gm, silty to sdy in pt; 45% Sd wh-gy, fn gm, gd sort, subrd, fr-gd fri, cem in pt; 10% Ls wh-cr, fn xln, dns

4950' & 4960' spl: 90% Sh as above; 10% Ls cr-tan-gy, fn xln, dns; some Sd as above, trace of chert

← 4953 (-1555)

4970' spl: 50% Ls wh-cr-tan, fn-md xln, dns to pr xln por, foss in pt, sdy in pt, subsucr/dolom in pt; 50% Shales as above

Dol cr-tan, fnxln, sucrosic, pr-fr xln por, scatt pp pores in pt, scattsm vugs, foss in pt, scatt glauc stn

Dol cr-tan, fnxln, sucrosic, pr-fr xln por, abund pp pores in pt, abund sm vugs in pt, foss in pt, scatt glauc specks, some weathered trip chert, spiculitic in pt

7:00 AM, November 30, 2019

Mud Check: Drlg @ 4944':

Vis	Wt	WL	LCM	PV	YP
63	9.4	7.2	2	16	19
Chl	Hd	pH	Solids		
2500	20	11.0	7.3		

RTD Reached at 11:42 PM, November 30, 2019!

4900

4950

5000

5050

