

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) (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	BIX-HUEL UNIT 1-2
Doc ID	1419284

All Electric Logs Run

Dual Induction
Compensated Density Neutron
Microlaterlog
Sonic

Form	ACO1 - Well Completion
Operator	Brito Oil Company, Inc.
Well Name	BIX-HUEL UNIT 1-2
Doc ID	1419284

Tops

Name	Top	Datum
Anhydrite	2558	441440
B/Anhydrite	2590	409
Heebner	3990	-991
Lansing	4030	-1031
Muncie Crk	4158	-1159
Stark	4245	-1346
BKC	4300	-1301
Marmaton	4330	-1331
Ft Scott	4492	-1493
Cherokee	4526	-1527
Johnson	4573	-1574
Mississippi	4614	-1615



DRILL STEM TEST REPORT

Prepared For: **Brito Oil Co, Inc.**

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206

ATTN: Logan Walker

Bix-Huel Unit #1-2

2-10s-31w Thomas,KS

Start Date: 2018.07.10 @ 19:06:00

End Date: 2018.07.11 @ 01:33:15

Job Ticket #: 63698 DST #: 1

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

Printed: 2018.07.16 @ 14:09:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 63698

DST#: 1

Test Start: 2018.07.10 @ 19:06:00

GENERAL INFORMATION:

Formation: **LKC I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:25:30

Time Test Ended: 01:33:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4186.00 ft (KB) To 4217.00 ft (KB) (TVD)

Reference Elevations: 2999.00 ft (KB)

Total Depth: 4217.00 ft (KB) (TVD)

2994.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 14.09 psig @ 4187.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.10

End Date:

2018.07.11

Last Calib.: 2018.07.11

Start Time: 19:06:05

End Time:

01:33:14

Time On Btm: 2018.07.10 @ 21:25:15

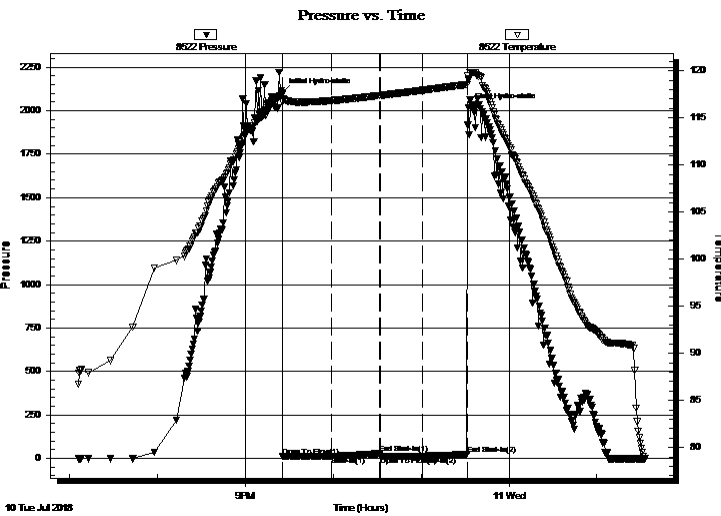
Time Off Btm: 2018.07.10 @ 23:32:30

TEST COMMENT: IF: Surface blow, Died @ 15 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.35	117.52	Initial Hydro-static
1	12.99	116.72	Open To Flow (1)
34	13.37	116.83	Shut-In(1)
67	28.43	117.39	End Shut-In(1)
67	13.88	117.37	Open To Flow (2)
96	14.09	117.93	Shut-In(2)
127	23.15	118.55	End Shut-In(2)
128	2018.99	119.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100m (oil spots)	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brito Oil Co, Inc.
 1223 N Rock Rd
 Bldg 1 Ste 100
 Wichita, KS 67206
 ATTN: Logan Walker

2-10s-31w Thomas,KS

Bix-Huel Unit #1-2

Job Ticket: 63698 **DST#: 1**
 Test Start: 2018.07.10 @ 19:06:00

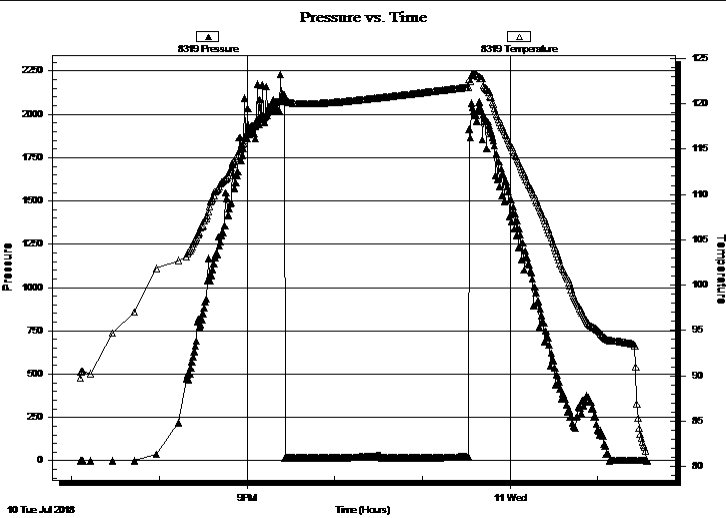
GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:25:30 Tester: Bradley Walter
 Time Test Ended: 01:33:15 Unit No: 78

Interval: 4186.00 ft (KB) To 4217.00 ft (KB) (TVD)
 Reference Elevations: 2999.00 ft (KB)
 Total Depth: 4217.00 ft (KB) (TVD) 2994.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8319 Outside
 Press@RunDepth: psig @ 4187.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.10 End Date: 2018.07.11 Last Calib.: 2018.07.11
 Start Time: 19:06:05 End Time: 01:33:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Surface blow , Died @ 15 min.
 IS: No return.
 FF: No blow .
 FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
3.00	Mud 100m (oil spots)	0.01

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 63698

DST#: 1

Test Start: 2018.07.10 @ 19:06:00

Tool Information

Drill Pipe:	Length: 3959.00 ft	Diameter: 3.80 inches	Volume: 55.53 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.60 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4186.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 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			4167.00	
Shut In Tool	5.00			4172.00	
Hydraulic tool	5.00			4177.00	
Packer	5.00			4182.00	20.00 Bottom Of Top Packer
Packer	4.00			4186.00	
Stubb	1.00			4187.00	
Recorder	0.00	8522	Inside	4187.00	
Recorder	0.00	8319	Outside	4187.00	
Perforations	27.00			4214.00	
Bullnose	3.00			4217.00	31.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 63698

DST#: 1

Test Start: 2018.07.10 @ 19:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
3.00	Mud 100m (oil spots)	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

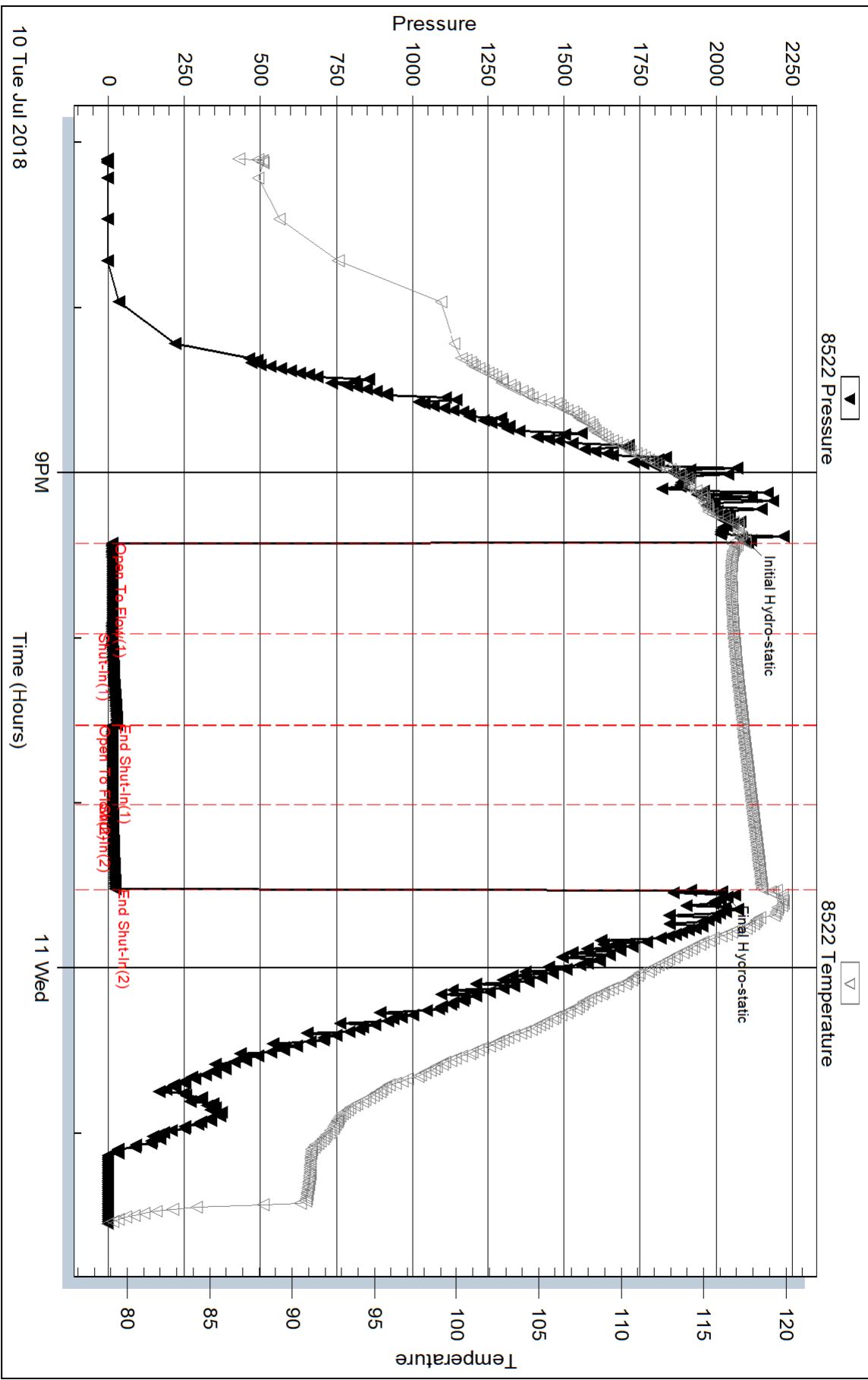
Inside

Brito Oil Co. Inc.

Bix-Huel Unit #1-2

DST Test Number: 1

Pressure vs. Time

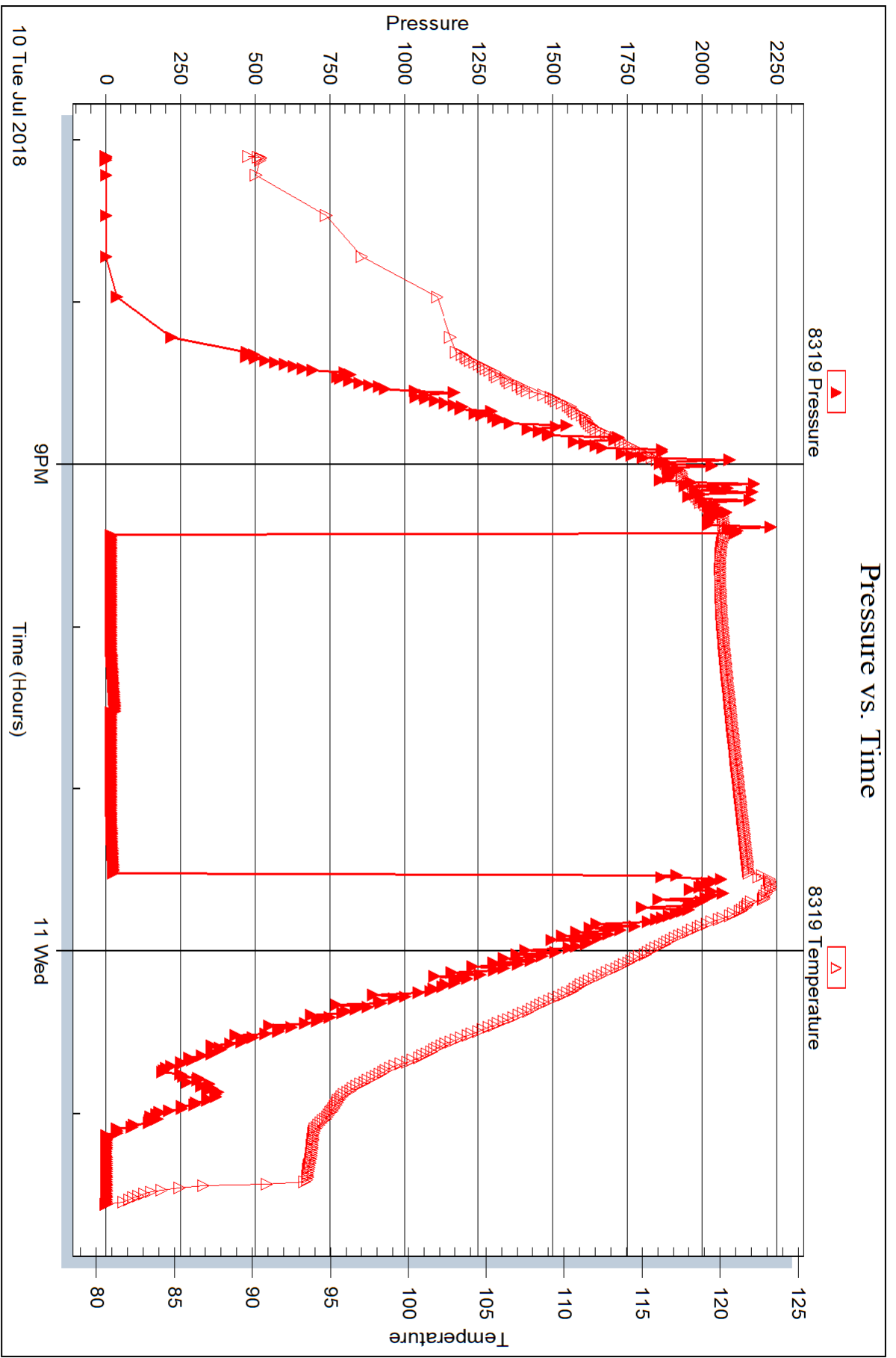


Serial #: 8319

Outside Brito Oil Co. Inc.

Bix-Huel Unit #1-2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Brito Oil Co, Inc.**

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206

ATTN: Logan Walker

Bix-Huel Unit #1-2

2-10s-31w Thomas,KS

Start Date: 2018.07.11 @ 10:37:05

End Date: 2018.07.11 @ 16:45:59

Job Ticket #: 63699 DST #: 2

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

Printed: 2018.07.16 @ 14:09:31

Brito Oil Co, Inc. 2-10s-31w Thomas,KS Bix-Huel Unit #1-2 DST # 2 LKC K (upper) 2018.07.11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 63699

DST#: 2

Test Start: 2018.07.11 @ 10:37:05

GENERAL INFORMATION:

Formation: **LKC K(upper)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:28:45

Time Test Ended: 16:45:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4230.00 ft (KB) To 4262.00 ft (KB) (TVD)

Reference Elevations: 2999.00 ft (KB)

Total Depth: 4262.00 ft (KB) (TVD)

2994.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 14.68 psig @ 4231.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.11

End Date:

2018.07.11

Last Calib.:

2018.07.11

Start Time:

10:37:05

End Time:

16:45:59

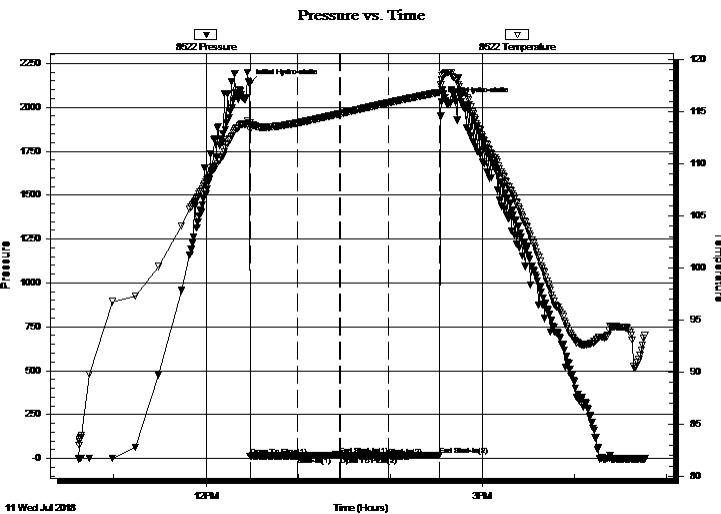
Time On Btm:

2018.07.11 @ 12:28:30

Time Off Btm:

2018.07.11 @ 14:33:15

TEST COMMENT: IF: Surface blow , died @ 20 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2133.50	113.93	Initial Hydro-static
1	13.40	113.25	Open To Flow (1)
31	14.66	113.91	Shut-In(1)
59	19.98	114.80	End Shut-In(1)
59	13.45	114.80	Open To Flow (2)
91	14.68	115.86	Shut-In(2)
124	18.62	116.86	End Shut-In(2)
125	2029.95	118.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100m (oil spots)	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brito Oil Co, Inc.

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

2-10s-31w Thomas,KS

Bix-Huel Unit #1-2

Job Ticket: 63699

DST#: 2

Test Start: 2018.07.11 @ 10:37:05

GENERAL INFORMATION:

Formation: **LKC K(upper)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:28:45

Time Test Ended: 16:45:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4230.00 ft (KB) To 4262.00 ft (KB) (TVD)

Total Depth: 4262.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2999.00 ft (KB)

2994.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319 Outside

Press@RunDepth: psig @ 4231.00 ft (KB)

Start Date: 2018.07.11

End Date:

2018.07.11

Start Time: 10:35:05

End Time:

16:46:14

Capacity: 8000.00 psig

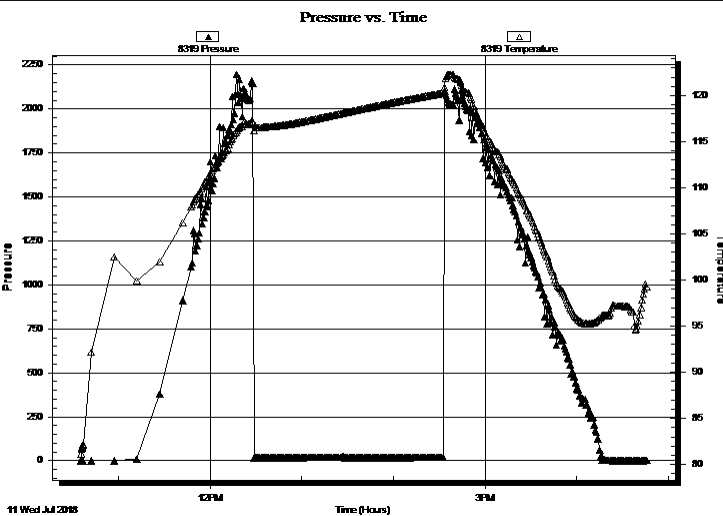
Last Calib.:

2018.07.11

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Surface blow , died @ 20 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100m (oil spots)	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 63699

DST#: 2

Test Start: 2018.07.11 @ 10:37:05

Tool Information

Drill Pipe:	Length: 4021.00 ft	Diameter: 3.80 inches	Volume: 56.40 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4230.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 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			4211.00	
Shut In Tool	5.00			4216.00	
Hydraulic tool	5.00			4221.00	
Packer	5.00			4226.00	20.00 Bottom Of Top Packer
Packer	4.00			4230.00	
Stubb	1.00			4231.00	
Recorder	0.00	8522	Inside	4231.00	
Recorder	0.00	8319	Outside	4231.00	
Perforations	28.00			4259.00	
Bullnose	3.00			4262.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 63699

DST#: 2

Test Start: 2018.07.11 @ 10:37:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100m (oil spots)	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

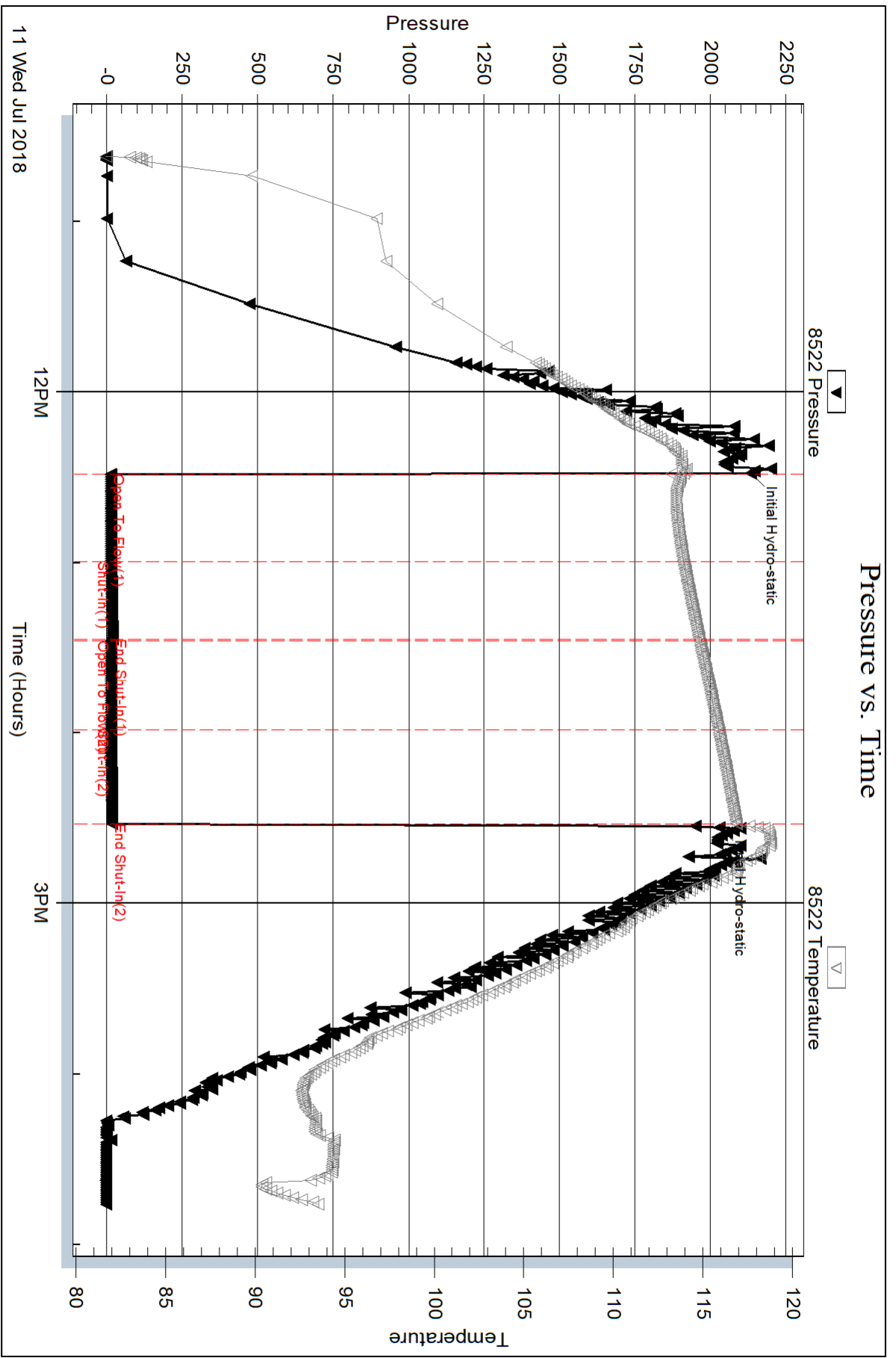
Serial #: 8522

Inside

Brito Oil Co., Inc.

Bix-Huel Unit #1-2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63699

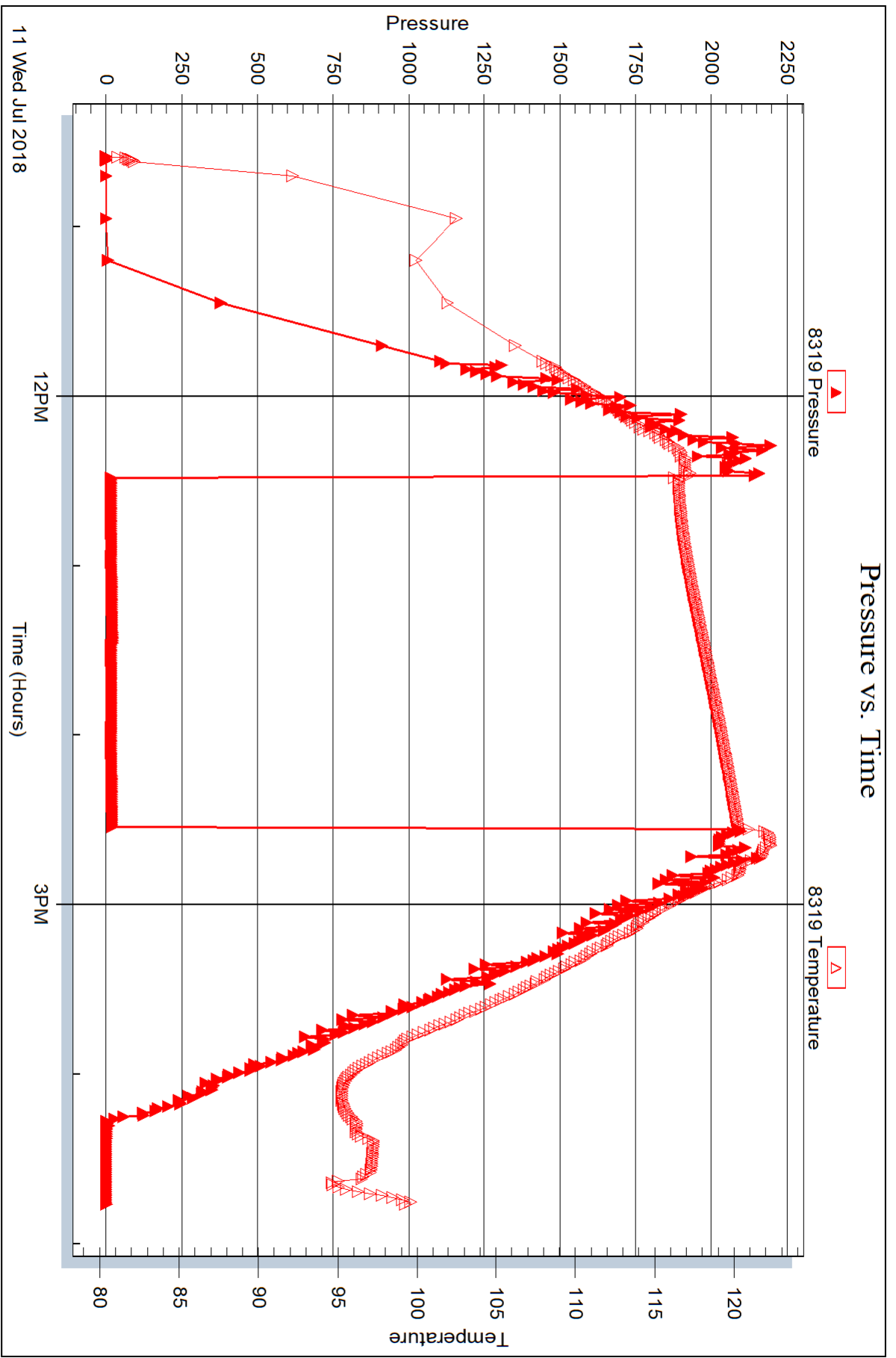
Printed: 2018.07.16 @ 14:09:32

Serial #: 8319

Outside Brito Oil Co., Inc.

Bix-Huel Unit #1-2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63699

Printed: 2018.07.16 @ 14:09:33



DRILL STEM TEST REPORT

Prepared For: **Brito Oil Co, Inc.**

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206

ATTN: Logan Walker

Bix-Huel Unit #1-2

2-10s-31w Thomas,KS

Start Date: 2018.07.12 @ 12:37:00

End Date: 2018.07.12 @ 19:50:45

Job Ticket #: 63700 DST #: 3

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

Printed: 2018.07.16 @ 14:04:55



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 63700

DST#: 3

Test Start: 2018.07.12 @ 12:37:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:27:00

Time Test Ended: 19:50:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4370.00 ft (KB) To 4436.00 ft (KB) (TVD)

Reference Elevations: 2999.00 ft (KB)

Total Depth: 4436.00 ft (KB) (TVD)

2994.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 55.46 psig @ 4371.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.12 End Date: 2018.07.12

Last Calib.: 2018.07.12

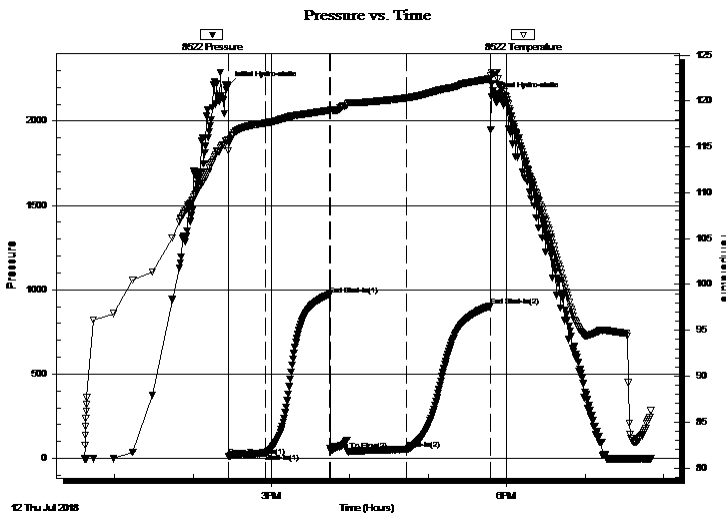
Start Time: 12:37:05 End Time: 19:50:44

Time On Btm: 2018.07.12 @ 14:26:45

Time Off Btm: 2018.07.12 @ 17:48:30

TEST COMMENT: IF: 4 1/2" blow .
IS: No return.
FF: 7 1/2" blow
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.83	115.76	Initial Hydro-static
1	12.02	114.57	Open To Flow (1)
29	32.26	117.60	Shut-In(1)
78	971.95	118.98	End Shut-In(1)
79	45.77	119.02	Open To Flow (2)
137	55.46	120.34	Shut-In(2)
201	902.31	122.43	End Shut-In(2)
202	2145.51	123.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
77.00	gocm 5g 15o 80m	0.38
3.00	oil 100o	0.01
0.00	160' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 63700 **DST#: 3**
Test Start: 2018.07.12 @ 12:37:00

GENERAL INFORMATION:

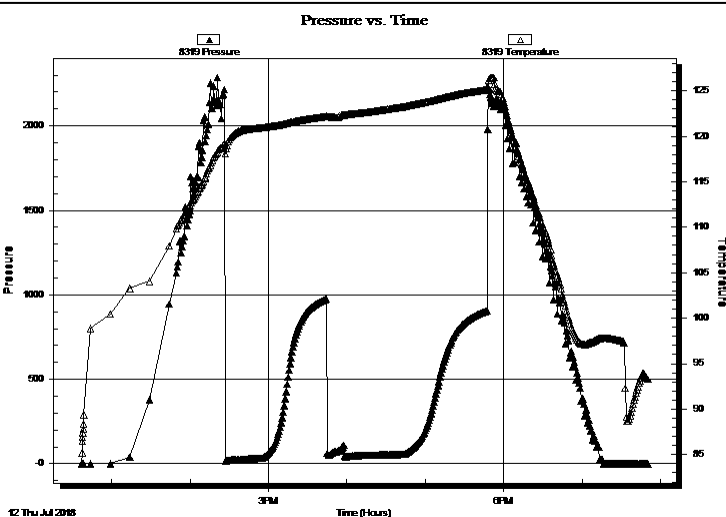
Formation: **Upper Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:27:00
 Time Test Ended: 19:50:45
 Interval: **4370.00 ft (KB) To 4436.00 ft (KB) (TVD)**
 Total Depth: 4436.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2999.00 ft (KB)
 2994.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8319

Outside

Press@RunDepth: psig @ 4371.00 ft (KB)
 Start Date: 2018.07.12 End Date: 2018.07.12
 Start Time: 12:37:05 End Time: 19:50:44
 Capacity: 8000.00 psig
 Last Calib.: 2018.07.12
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 4 1/2" blow .
 IS: No return.
 FF: 7 1/2" blow
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
77.00	gocm 5g 15o 80m	0.38
3.00	oil 100o	0.01
0.00	160' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 63700

DST#: 3

Test Start: 2018.07.12 @ 12:37:00

Tool Information

Drill Pipe:	Length: 4150.00 ft	Diameter: 3.80 inches	Volume: 58.21 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4370.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	86.00 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			4351.00	
Shut In Tool	5.00			4356.00	
Hydraulic tool	5.00			4361.00	
Packer	5.00			4366.00	20.00 Bottom Of Top Packer
Packer	4.00			4370.00	
Stubb	1.00			4371.00	
Recorder	0.00	8522	Inside	4371.00	
Recorder	0.00	8319	Outside	4371.00	
Perforations	29.00			4400.00	
Change Over Sub	1.00			4401.00	
Drill Pipe	31.00			4432.00	
Change Over Sub	1.00			4433.00	
Bullnose	3.00			4436.00	66.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 63700

DST#: 3

Test Start: 2018.07.12 @ 12:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

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
77.00	gocm 5g 15o 80m	0.379
3.00	oil 100o	0.015
0.00	160' GIP	0.000

Total Length: 80.00 ft Total Volume: 0.394 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

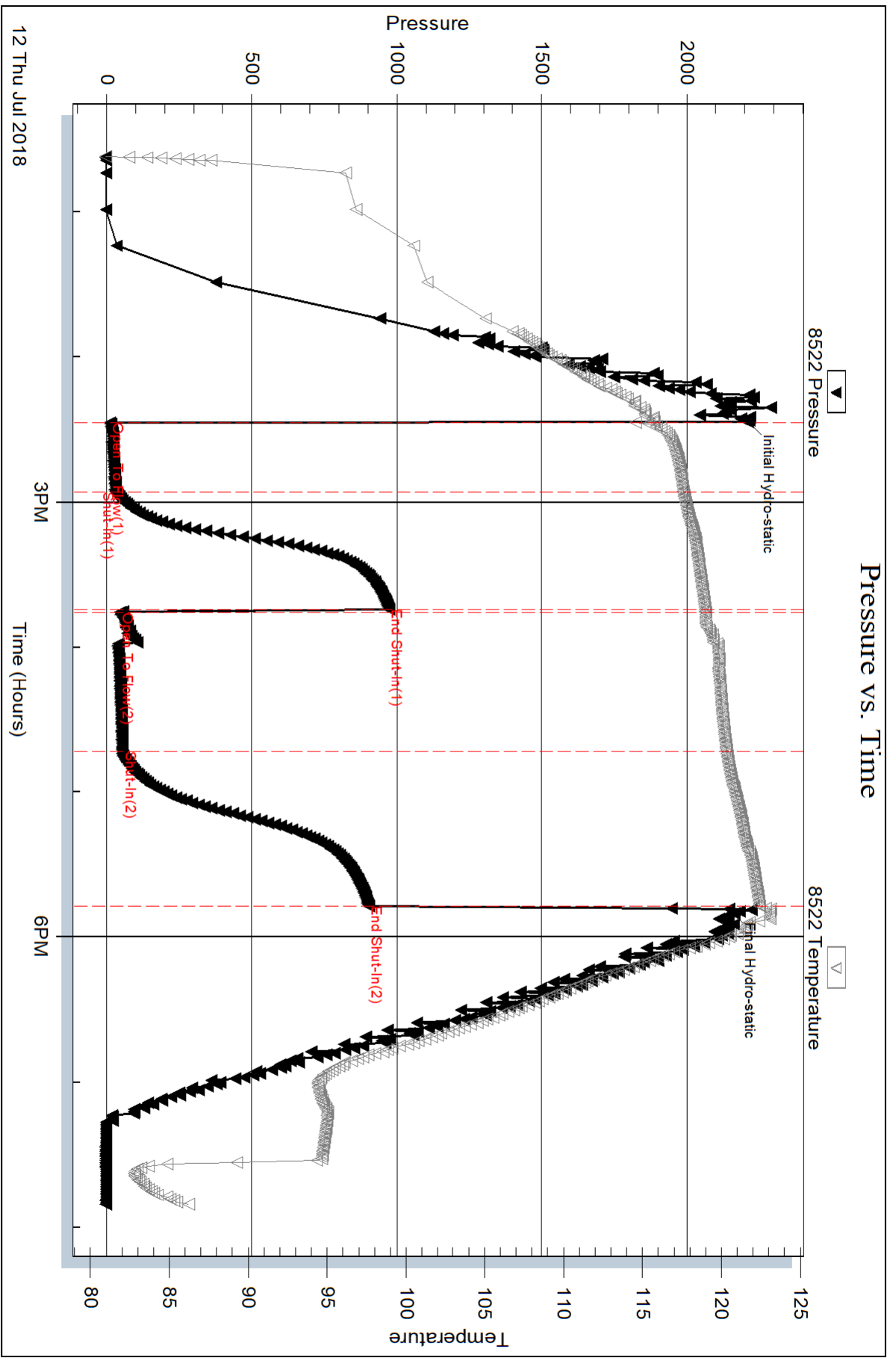
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Inside

Brito Oil Co. Inc.

Bix-Huel Unit #1-2

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 63700

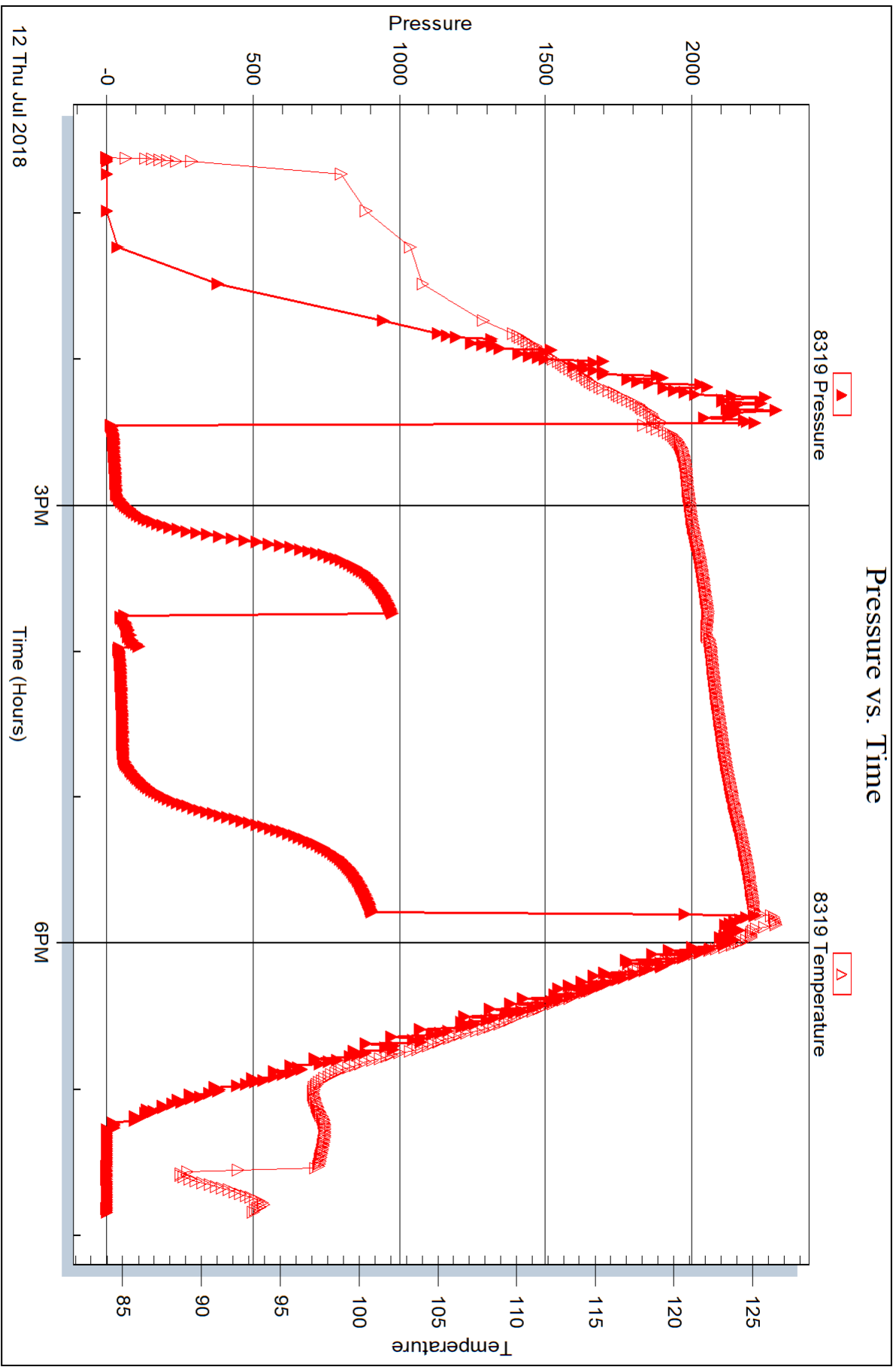
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Serial #: 8319

Outside Brito Oil Co. Inc.

Bix-Huel Unit #1-2

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Brito Oil Co, Inc.**

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206

ATTN: Logan Walker

Bix-Huel Unit #1-2

2-10s-31w Thomas,KS

Start Date: 2018.07.13 @ 04:27:00

End Date: 2018.07.13 @ 11:22:00

Job Ticket #: 64401 DST #: 4

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

Printed: 2018.07.16 @ 14:04:28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 64401

DST#: 4

Test Start: 2018.07.13 @ 04:27:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:12:15

Time Test Ended: 11:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4430.00 ft (KB) To 4474.00 ft (KB) (TVD)

Reference Elevations: 2999.00 ft (KB)

Total Depth: 4474.00 ft (KB) (TVD)

2994.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 18.53 psig @ 4431.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.13

End Date: 2018.07.13

Last Calib.: 2018.07.13

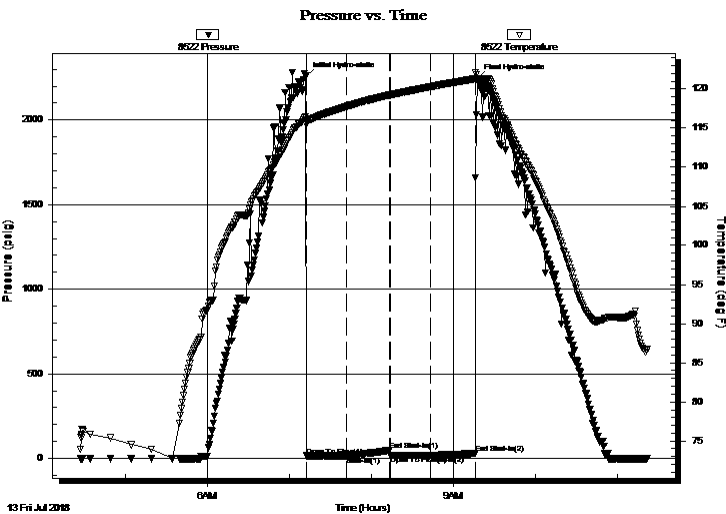
Start Time: 04:27:05

End Time: 11:21:59

Time On Btm: 2018.07.13 @ 07:12:00

Time Off Btm: 2018.07.13 @ 09:17:45

TEST COMMENT: IF: 1/2" blow.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2259.12	116.45	Initial Hydro-static
1	15.20	115.42	Open To Flow (1)
30	15.91	117.77	Shut-In(1)
62	48.42	119.25	End Shut-In(1)
62	17.46	119.22	Open To Flow (2)
92	18.53	120.29	Shut-In(2)
124	30.17	121.31	End Shut-In(2)
126	2244.82	121.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 3o 97m	0.05

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brito Oil Co, Inc.
 1223 N Rock Rd
 Bldg 1 Ste 100
 Wichita, KS 67206
 ATTN: Logan Walker

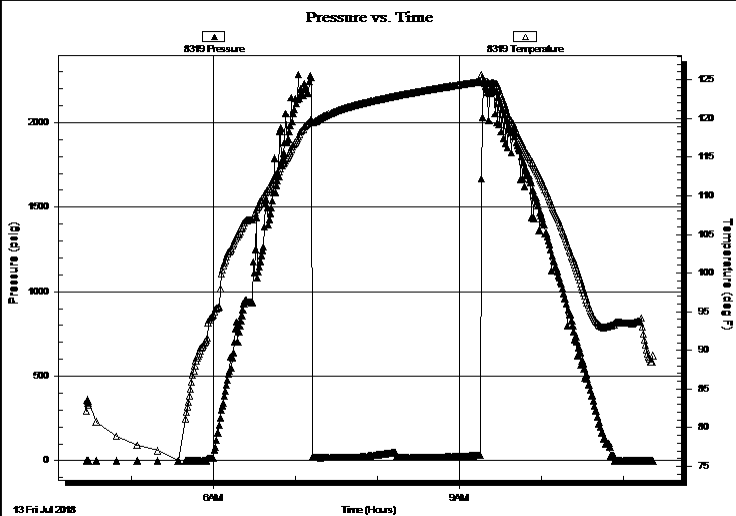
2-10s-31w Thomas,KS
Bix-Huel Unit #1-2
 Job Ticket: 64401 **DST#: 4**
 Test Start: 2018.07.13 @ 04:27:00

GENERAL INFORMATION:

Formation: **Myric Station**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:12:15 Tester: Bradley Walter
 Time Test Ended: 11:22:00 Unit No: 78
Interval: 4430.00 ft (KB) To 4474.00 ft (KB) (TVD) Reference Elevations: 2999.00 ft (KB)
 Total Depth: 4474.00 ft (KB) (TVD) 2994.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8319 Outside
 Press@RunDepth: psig @ 4431.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.13 End Date: 2018.07.13 Last Calib.: 2018.07.13
 Start Time: 04:27:05 End Time: 11:21:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/2" blow .
 IS: No return.
 FF: No blow .
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 3o 97m	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 64401

DST#: 4

Test Start: 2018.07.13 @ 04:27:00

Tool Information

Drill Pipe:	Length: 4212.00 ft	Diameter: 3.80 inches	Volume: 59.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4430.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 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			4411.00	
Shut In Tool	5.00			4416.00	
Hydraulic tool	5.00			4421.00	
Packer	5.00			4426.00	20.00 Bottom Of Top Packer
Packer	4.00			4430.00	
Stubb	1.00			4431.00	
Recorder	0.00	8522	Inside	4431.00	
Recorder	0.00	8319	Outside	4431.00	
Perforations	7.00			4438.00	
Change Over Sub	1.00			4439.00	
Drill Pipe	31.00			4470.00	
Change Over Sub	1.00			4471.00	
Bullnose	3.00			4474.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brito Oil Co, Inc.

2-10s-31w Thomas,KS

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, KS 67206
ATTN: Logan Walker

Bix-Huel Unit #1-2

Job Ticket: 64401

DST#: 4

Test Start: 2018.07.13 @ 04:27:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
10.00	ocm 3o 97m	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 #: 8522

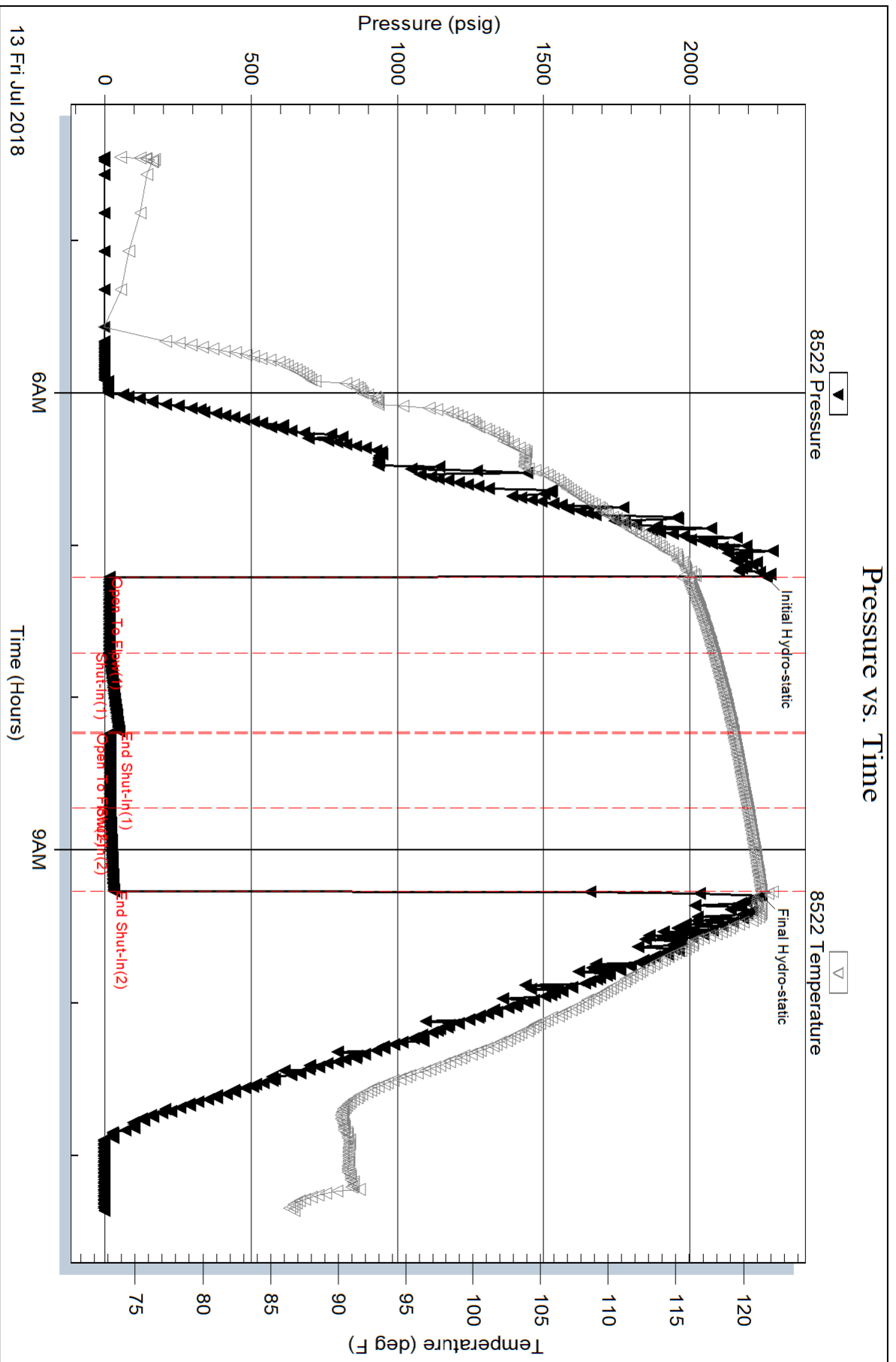
Inside

Brito Oil Co., Inc.

Bix-Huel Unit #1-2

DST Test Number: 4

Pressure vs. Time

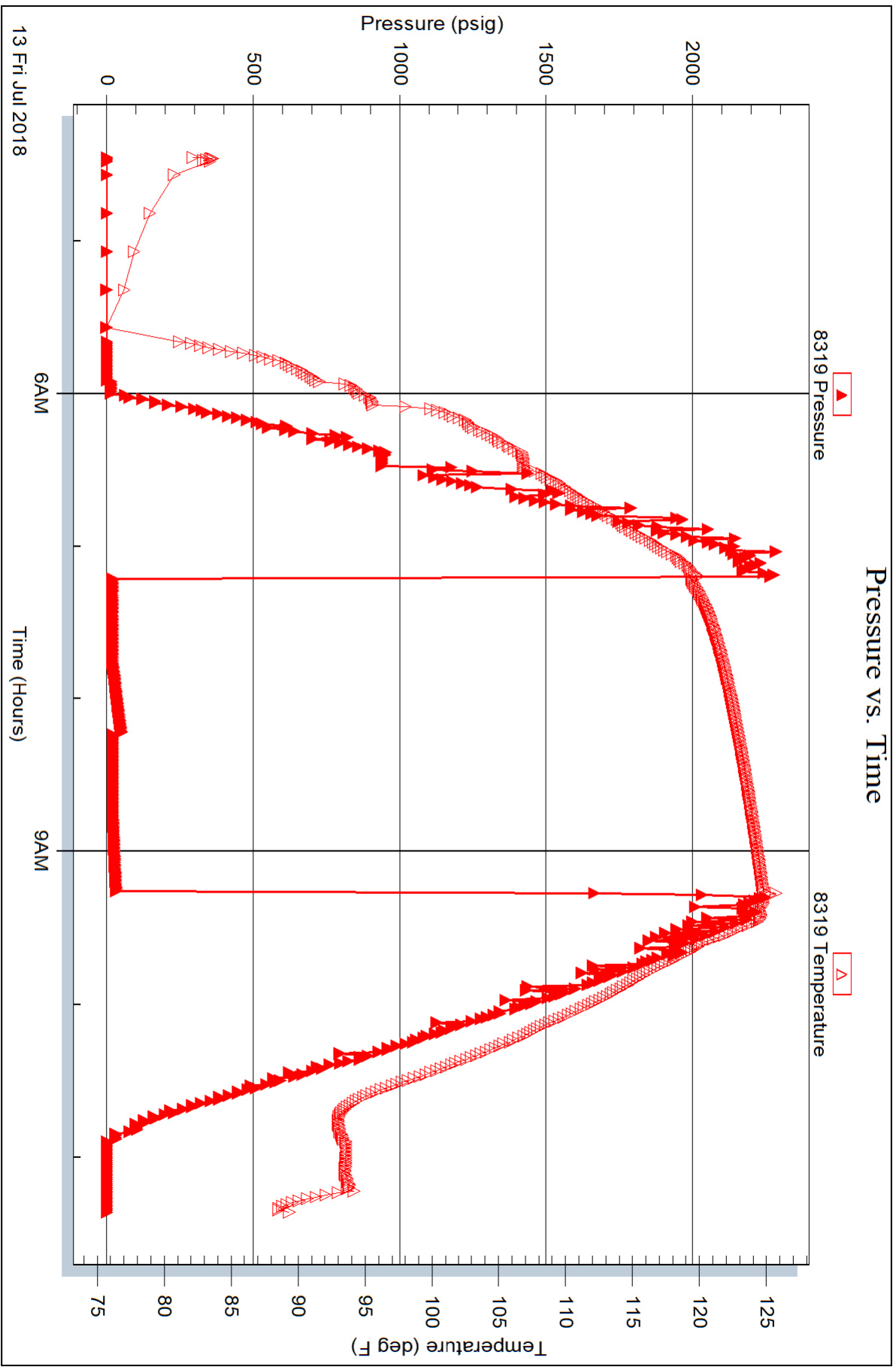


Serial #: 8319

Outside Brito Oil Co. Inc.

Bix-Huel Unit #1-2

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63698

Well Name & No. Biv-Hovel Unit #1-2 Test No. 1 Date 7/11/2018
 Company Brito Oil Co, Inc Elevation 2999 KB 2994 GL
 Address 1223 N Rock Rd Bldg 1 Ste 100 67206
 Co. Rep / Geo. Logan Walker Rig Martin #7
 Location: Sec. 2 Twp 10s Rge. 31W Co. Thomas State Ks

Interval Tested 4186-4217 Zone Tested LKC - I
 Anchor Length 31' Drill Pipe Run 3959 Mud Wt. 9.2
 Top Packer Depth 4181 Drill Collars Run 217 Vis 70'
 Bottom Packer Depth 4186 Wt. Pipe Run Ø WL 8.0
 Total Depth 4217 Chlorides 2100 ppm System LCM 6#

Blow Description IF Surface blow
ISI No return.
FF No blow
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>mud</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 3 BHT 118 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2104 Test 1150 T-On Location 185
 (B) First Initial Flow 13 Jars _____ T-Started 1906
 (C) First Final Flow 13 Safety Joint _____ T-Open 2126
 (D) Initial Shut-In 28 Circ Sub 1/2 T-Pulled 2330
 (E) Second Initial Flow 14 Hourly Standby _____ T-Out 0134
 (F) Second Final Flow 14 Mileage 121 RT 121 Comments _____
 (G) Final Shut-In 23 Sampler _____
 (H) Final Hydrostatic 2019 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1271
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1271

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63699**

Well Name & No. Bix-Herel Unit # 1-2 Test No. 2 Date 7/11/2018
 Company Brito O.I. Co, Inc Elevation 2999 KB 2994 GL
 Address 1223 N Rock Rd Bldg 1 Ste 100 Wichita, KS 67206
 Co. Rep / Geo. Logan Walker Rig Martin #7
 Location: Sec. 2 Twp 10s Rge. 31W Co. Thomas State KS

Interval Tested 4230 - 4262 Zone Tested Upper K zone
 Anchor Length 32' Drill Pipe Run 4021 Mud Wt. 9.1
 Top Packer Depth 4225 Drill Collars Run 217 Vis 60
 Bottom Packer Depth 4230 Wt. Pipe Run Ø WL 8.8
 Total Depth 4262 Chlorides 2800 ppm System LCM 5#

Blow Description IF Surface blow, died @ 20 min.
ISI No return.
FF No blow
FBI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>MUD</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 3 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2134 Test 1150 T-On Location 1000
 (B) First Initial Flow 13 Jars _____ T-Started 1057
 (C) First Final Flow 15 Safety Joint _____ T-Open 1250
 (D) Initial Shut-In 20 Circ Sub 1 1/2 T-Pulled 1450
 (E) Second Initial Flow 13 Hourly Standby _____ T-Out 1646
 (F) Second Final Flow 15 Mileage 121 RT 121 Comments _____
 (G) Final Shut-In 19 Sampler _____
 (H) Final Hydrostatic 2030 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1271
 Final Shut-In 30 Accessibility _____ MP/DST Disc't _____
 Sub Total 1271

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63700**

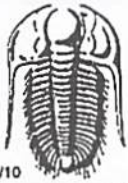
Well Name & No. Brito Oil Co, Inc Bix-Huel Unit #1-2 Test No. 3 Date 7/12/2018
 Company Brito Oil Co, Inc Elevation 2999 KB 2994 GL
 Address 1223 N Rock Rd Bldg 1 Ste 100 Wichita, Ks 67206
 Co. Rep / Geo. Logan Walker Rig Martin #7
 Location: Sec. 2 Twp 10s Rge. 31w Co. Thomas State Ks

Interval Tested 4370-4436 Zone Tested Upper Pawnee
 Anchor Length 66' Drill Pipe Run 4150 Mud Wt. 9.1
 Top Packer Depth 4365 Drill Collars Run 217 Vis 23
 Bottom Packer Depth 4370 Wt. Pipe Run Ø WL 9.6
 Total Depth 4436 Chlorides 3500 ppm System LCM 4#
 Blow Description IF 4 1/2" blow
ISI No return
FF 7 1/2" blow
IFI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>0.1</u>	<u>100</u>			
<u>77</u>	<u>80CM</u>	<u>5</u>	<u>15</u>	<u>80</u>	
	<u>160' BIP</u>				

Rec Total 80 BHT 123 Gravity 36 API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 2210 Test 1150 T-On Location 1210
 (B) First Initial Flow 12 Jars _____ T-Started 1237
 (C) First Final Flow 32 Safety Joint _____ T-Open 1427
 (D) Initial Shut-In 972 Circ Sub 1/2 T-Pulled 1742
 (E) Second Initial Flow 46 Hourly Standby _____ T-Out 1951
 (F) Second Final Flow 55 Mileage 121 RT 121 Comments _____
 (G) Final Shut-In 902 Sampler _____
 (H) Final Hydrostatic 2146 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1271
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1271

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64401

Well Name & No. Biv Hvel Unit #1-2 Test No. 4 Date 7/13/2018
 Company Brito Oil Co, Inc Elevation 2999 KB 2994 GL
 Address 1223 N Rock Rd Bldg 1 Ste 100 Wichita, KS 67206
 Co. Rep / Geo. Logan Walker Rig Martin #7
 Location: Sec. 2 Twp 10s Rge. 31W Co. Thomas State KS

Interval Tested 4430-4474 Zone Tested Myric Station
 Anchor Length 44' Drill Pipe Run 4212 Mud Wt. 9.7
 Top Packer Depth 4425 Drill Collars Run 217 Vis 65
 Bottom Packer Depth 4430 Wt. Pipe Run 0 WL 9.6
 Total Depth 4474 Chlorides 3500 ppm System LCM 4#
 Blow Description IF 1/2" blow
ISI No return.
FF No blow
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OCM</u>		<u>3</u>	<u>94</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

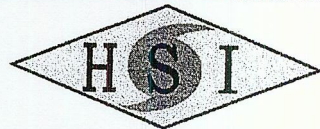
Rec Total 10 BHT 121 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2259</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0400</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars	T-Started <u>0427</u>
(C) First Final Flow <u>16</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0712</u>
(D) Initial Shut-In <u>48</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/2</u>	T-Pulled <u>0912</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1122</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>121 RT x2</u> 242	Comments <u>PV TOOL @ 1800</u>
(G) Final Shut-In <u>30</u>	<input type="checkbox"/> Sampler	<u>7/14</u>
(H) Final Hydrostatic <u>2245</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>20</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>1392</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1392</u>	

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

TREATMENT REPORT



HURRICANE SERVICES INC

RECEIVED
JUL 10 2018

Customer:	Brito Oil company INC.	Date:	7/6/2018	Ticket #:	ICT1168
Field Rep:	Arturo Cabezas				
Address:	1223 N.Rock RD. BLDG 1 STE 100				
City, State:	Wichita, KS				
County, Zip:	Sedgwick, 67202				

Field Order No.:		Open Hole:	
Well Name:		Casing Depth:	262
Location:	Thomas	Casing Size:	8 5/8
Formation:		Tubing Depth:	
Type of Service:	Cement	Tubing Size:	
Well Type:	Oil	Liner Depth:	
Age of Well:	New	Liner Size:	
Packer Type:		Liner Top:	
Packer Depth:		Liner Bottom:	
Treatment Via:		Total Depth:	264

Perf Depths (ft)	Perfs
Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbbls)
	FLUID	N2/CO2	STP	ANNULUS				
6:00 PM					Depart Oakley service center			
6:20 PM					Arrive on location			
6:25 PM					safety meeting			
6:30 PM					Rig up equipment			
8:35 PM					Rig starts running 6 jts of casing			
9:15 PM					Casing on bottom			
9:20 PM					Rig circulates			
9:25 PM	3.0		120.0		Pump water ahead			15.00
9:30 PM	6.5		100.0		Pump 190 sacks at 14.8 ppg(1.41 cf/sk yield)			47.70
9:41 AM	6.0		100.0		Start Displacement			
9:46 PM					End Displacement shut in well			15.50
9:50 PM					bbbls of cement was returned to surface			10.00
9:53 PM					Wash up equipment			
9:56 PM					Rig down equipment			
10:10 PM					Depart Location for Oakley service center			
					TOTAL:			88.20

SUMMARY			
Max FI. Rate	Avg FI. Rate	Max PSI	Avg PSI
6.5	5.2	120.0	106.7

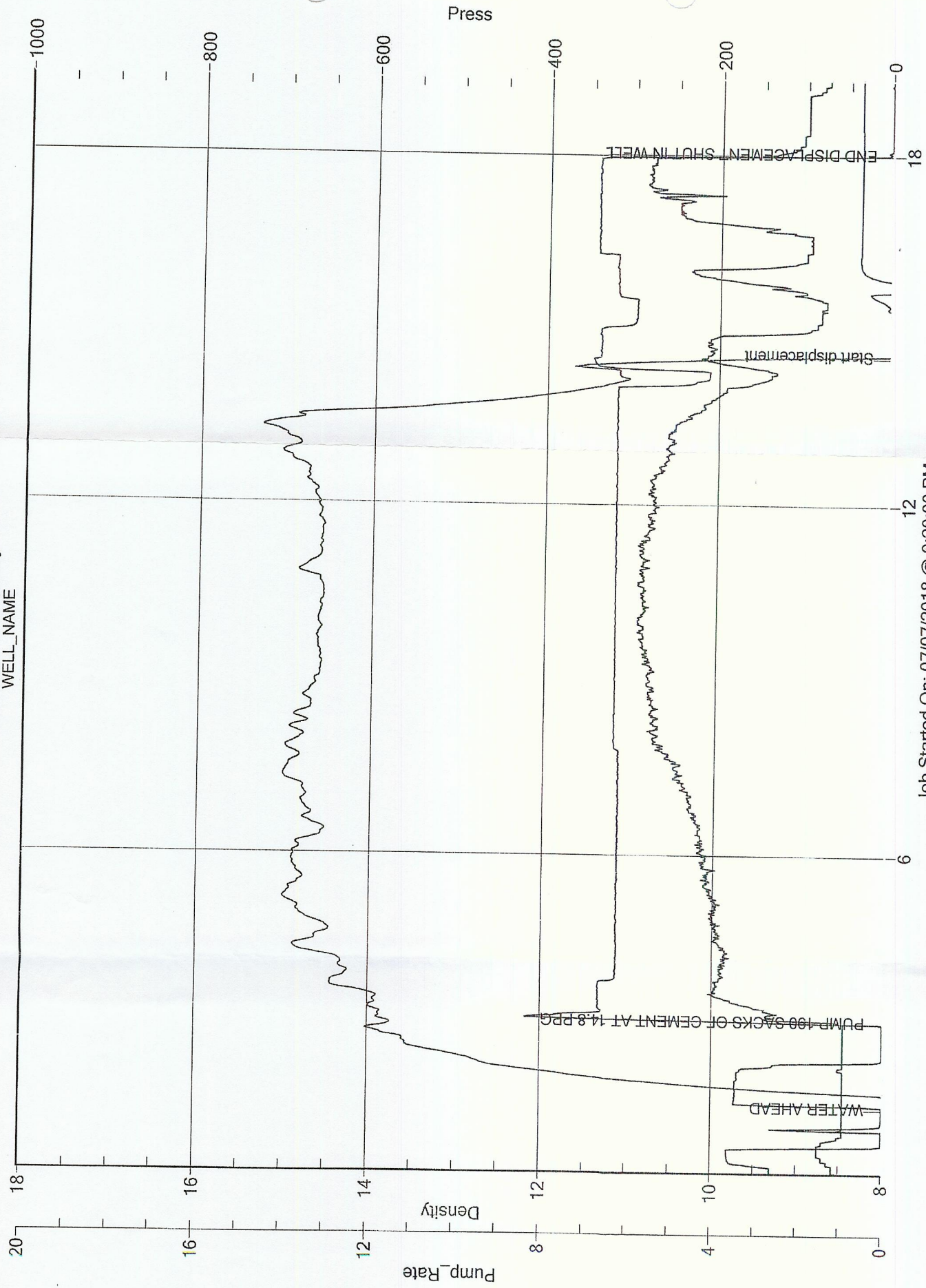
PRODUCTS USED

Pumped 190 sacks class A, 3% CC, 2% gel, 0.25% flo seal

Treater: Dave Retzlaff

Customer: Arturo Cabezas

Brito oil company
WELL_NAME



Job Started On: 07/07/2018 @ 9:20:00 PM

TREATMENT REPORT



HURRICANE SERVICES INC

Customer: Brito oil Company inc.	Date: 7/14/2018	Ticket #: ICT1201
Field Rep: Jason Gully		
Address: 1223 N. Rock Road		
City, State: Wichita, KS		
County, Zip: 67206		

Field Order No.:	Open Hole:
Well Name:	Casing Depth:
Location: Thomas KS	Casing Size:
Formation:	Tubing Depth:
Type of Service: cement	Tubing Size:
Well Type: Oil	Liner Depth:
Age of Well: New	Liner Size:
Packer Type:	Liner Top:
Packer Depth:	Liner Bottom:
Treatment Via: cement	Total Depth:

Perf Depths (ft)	Perfs
Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
11:00 PM					Arrive on location			
11:10 PM					Safety Meeting			
11:15 PM					Rig Up			
11:20 PM	4.5		220.0		Mix 50 sks of 60/40 poz 4% gel .25 flo 1.42 yield			8.00
11:24 PM	4.5		180.0		Displace to 2575			36.00
11:26 PM					rig pulls pipe			
11:48 PM	4.0		120.0		Mix 100 sks			16.50
12:01 AM	4.0		100.0		Displace to 1395			20.00
12:30 AM	4.0		80.0		Mix 50 sks of 60/40 poz 4% gel .25 flo 1.42 yield			8.00
12:33 AM	2.0		80.0		Displace to 315			4.00
12:35 AM					Rig come out of hole			
1:00 AM	2.0		80.0		Drop plug mix 10 sks			2.00
1:06 AM	2.0		80.0		Mix 30 sks in Rat hole			5.00
1:11 AM	2.0		80.0		Mix 15 sks in mouse hole			2.50
1:30 AM					wash up			
1:45 AM					rig down			
2:10 AM					Depart			
TOTAL:						-	-	102.00

SUMMARY			
Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
4.5	3.2	220.0	113.3

PRODUCTS USED
 225 sks of 60/40 poz 4 %gel .25 flo

Treater: Dave Retzlloff

Customer: _____

OPERATOR

Company: Brito Oil Company Inc.
 Address: 1700 N Waterfront PKWY BLDG 1200
 Wichita, KS 67206

Contact Geologist: Raul Brito
 Contact Phone Nbr: 316-263-8787
 Well Name: Bix-Huel Unit #1-2
 Location: Sec.2 - T10S - R31W
 API: 15-193-21022
 Pool:
 State: Kansas

Field:
 Country: USA

Scale 1:240 Imperial

Well Name: Bix-Huel Unit #1-2
 Surface Location: Sec.2 - T10S - R31W
 Bottom Location:
 API: 15-193-21022
 License Number:
 Spud Date: 7/6/2018 Time: 5:00 PM
 Region: Thomas County
 Drilling Completed: 7/14/2018 Time: 10:03 AM
 Surface Coordinates: 2640' FNL & 1610' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2994.00ft
 K.B. Elevation: 2999.00ft
 Logged Interval: 3800.00ft To: 4700.00ft
 Total Depth: 4700.00ft
 Formation:
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 2640' FNL
 E/W Co-ord: 1610' FWL

LOGGED BY

WALKER

GEO CONSULTING

Company: Walker Geo Consulting
 Address: 209 Lioba Dr.
 Andover Ks, 67002

Phone Nbr: 316-317-0249
 Logged By: Geologist

Name: Logan Walker

CONTRACTOR

Contractor: Murfin Drilling
 Rig #: 7
 Rig Type: mud rotary
 Spud Date: 7/6/2018 Time: 5:00 PM
 TD Date: 7/14/2018 Time: 10:03 AM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2999.00ft Ground Elevation: 2994.00ft
 K.B. to Ground: 5.00ft

NOTES

Brito Oil Company, Inc.

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
07/09/2018	3755'	Geologist Logan Walker on location @ 0215 hrs, 3700 ft, TIH w/bit, drilling ahead Heebner, Lansing.
07/10/2018	4159'	drilling ahead Lansing, Munchie Creek, shows in I warrants test, TOH w/bit, TIH with tool, conduct and complete DST #1, successful test, TOH w/tool
07/11/2018	4240'	TOH w/tool, TIH w/bit, resume drilling, drilling ahead Stark, shows in the Upper K warrants test, TOH w/bit, TIH w/tool conduct and complete DST #2, successful test, TOH w/tool, TIH w/bit, resume drilling
07/12/2018	4394'	Drilling ahead Base KC, Marmaton, Pawnee, shows in the upper Pawnee warrants test, TOH w/ bit, TIH w/tool, conduct and complete DST #3, successful test, TOH w/tool, TIH w/bit, resume drilling
07/13/2018	4474	Drilling ahead Myric Station, shows in the upper Pawnee warrants test, TOH w/ bit, TIH w/tool, conduct and complete DST #4, successful test, TOH w/tool, TIH w/bit, resume drilling, drilling ahead Fort Scott, Cherokee, Johnson
07/14/2018	4640	Drilling ahead Johnson, Mississippian, TD @4700' 1003 hrs, TOH w/bit, Loggers onsite 1330 hrs, TIH w/tool, TOH w/tool, Loggers offsite 1902hrs, Geologist offsite 1945 hrs

Brito Oil Company, Inc. well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Bix-Huel Unit #1-2 2640' FNL & 1610' FWL Sec 2-T10S-R31W 2999 KB					Huelsman #1-3 NW - SE Sec 3-T10S-R31W 3000 KB				Huelsmann #1-1 SE SW NW Sec 1-T10S-R31W 2994 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3992	-993	3990	-991	4003	-1003	10	12	4005	-1011	18	20
Lansing	4034	-1035	4030	-1031	4043	-1043	8	12	4045	-1051	8	20
Muncie Creak	4160	-1161	4158	-1159	4174	-1174	13	15	4176	-1182	8	23
Stark	4242	-1243	4245	-1246	4258	-1258	15	12	4258	-1264	6	18
Base KC	4300	-1301	4300	-1301	4320	-1320	19	19	4318	-1324	4	23
Marmaton	4333	-1334	4330	-1331	4349	-1349	15	18	4350	-1356	7	25
Pawnee	4421	-1422	4424	-1425	4438	-1438	16	13	4443	-1449	11	24
Fort Scott	4487	-1488	4492	-1493	4503	-1503	15	10	4511	-1517	14	24
Cherokee	4516	-1517	4526	-1527	4532	-1532	15	5	4540	-1546	14	19
Johnson Zn	4562	-1563	4573	-1574	4576	-1576	13	2	4581	-1587	11	13
Mississippian	4616	-1617	4614	-1615	4630	-1630	13	15	4600	-1606	-24	-9
Total Depth	4700	-1701	4701	-1702	4674	-1674	-27	-28	4642	-1648	-26	-54



DRILL STEM TEST REPORT

Brito Oil Co, Inc.

2 10s 31w Thomas, Ks

1223 N Rock Rd
Bldg 1 Ste 100
Wichita, Ks. 67206

Bix-Huel Unit #1-2

Job Ticket: 63698

DST# 1

GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:25:30
 Time Test Ended: 01:33:15

Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78

Interval: **4186.00 ft (KB) To 4217.00 ft (KB) (TVD)**
 Total Depth: 4217.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

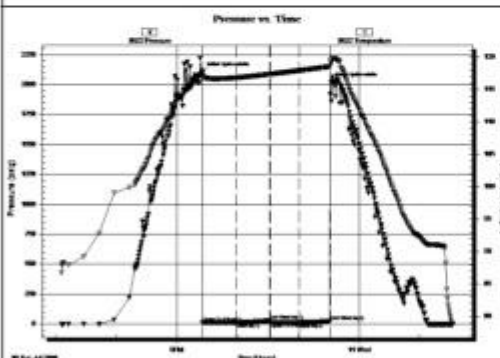
Reference Elevations: 2999.00 ft (KB)
 2994.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 14.09 psig @ 4187.00 ft (KB)
 Start Date: 2018.07.10 End Date: 2018.07.11
 Start Time: 19:06:05 End Time: 01:33:14

Capacity: 8000.00 psig
 Last Calib.: 2018.07.11
 Time On Btm: 2018.07.10 @ 21:25:15
 Time Off Btm: 2018.07.10 @ 23:32:30

TEST COMMENT: F: Surface blow, Died @ 15 min.
 IS: No return.
 FF: No blow.
 FSt: No return.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.35	117.52	Initial Hydro-static
1	12.99	116.72	Open To Flow (1)
34	13.37	116.83	Shut-In(1)
67	26.43	117.39	End Shut-In(1)
67	13.88	117.37	Open To Flow (2)
96	14.09	117.93	Shut-In(2)
127	23.15	118.55	End Shut-In(2)
128	2018.99	119.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100m (oil spots)	0.01

Gas Rates

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

Triblote Testing, Inc

Ref. No: 63698

Printed: 2018.07.11 @ 07:57:57



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Brito Oil Co, Inc.
 1223 N Rock Rd
 Bldg 1 Ste 100
 Wichita, Ks 67206
 ATTN: Logan Walker

2 10s 31w Thomas, Ks

Bix-Huel Unit #1-2

Job Ticket: 63699

DST#: 2

Test Start: 2018.07.10 @ 19:06:00

GENERAL INFORMATION:

Formation: **LKC K (upper)**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:

Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78

Interval: **4230.00 ft (KB) To 4262.00 ft (KB) (TVD)**
 Total Depth: 4262.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

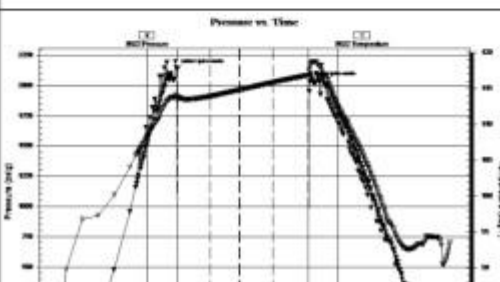
Reference Elevations: 2999.00 ft (KB)
 2994.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 18.62 psig @ 4231.00 ft (KB)
 Start Date: 2018.07.11 End Date: 2018.07.11
 Start Time: 10:37:05 End Time: 16:45:59

Capacity: 8000.00 psig
 Last Calib.: 2018.07.11
 Time On Btm: 2018.07.11 @ 12:28:30
 Time Off Btm: 2018.07.11 @ 14:33:15

TEST COMMENT: F: Surface blow, died @ 20 min.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2133.50	113.93	Initial Hydro-static
1	13.40	113.25	Open To Flow (1)
31	14.66	113.91	Shut-In(1)
59	19.98	114.80	End Shut-In(1)
59	13.45	114.80	Open To Flow (2)
91	14.68	115.86	Shut-In(2)
124	18.62	116.86	End Shut-In(2)
125	2029.95	118.01	Final Hydro-static




Recovery		
Length (ft)	Description	Volume (bbl)
3.00	Mud 100m(oil spots)	0.01

Gas Rates		
Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

Trilobite Testing, Inc

Ref. No: 63699

Printed: 2018.07.11 @ 21:25:08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Brito Oil Co, Inc. **2 10s 31w Thomas, Ks**
 1223 N Rock Rd **Bix-Huel Unit #1-2**
 Bldg 1 Ste 100 Job Ticket: 63700 **DST#: 3**
 Wichita, Ks 67206 Test Start: 2018.07.12 @ 12:37:00
 ATTN: Logan Walker

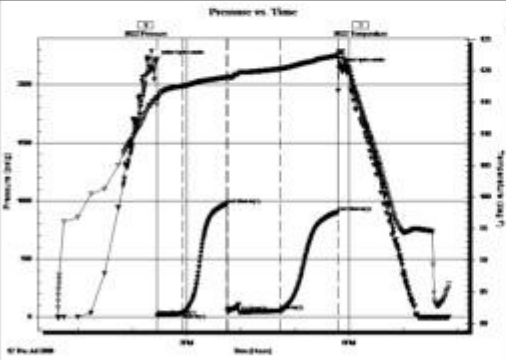
GENERAL INFORMATION:

Formation: **Upper Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:27:00 Test Type: Conventional Bottom Hole (Reset)
 Time Test Ended: 19:50:45 Tester: Bradley Walter
 Unit No: 78
 Interval: 4370.00 ft (KB) To 4436.00 ft (KB) (TVD) Reference Elevations: 2999.00 ft (KB)
 Total Depth: 4436.00 ft (KB) (TVD) 2994.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 55.46 psig @ 4371.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.12 End Date: 2018.07.12 Last Calib.: 2018.07.12
 Start Time: 12:37:05 End Time: 19:50:44 Time On Btm: 2018.07.12 @ 14:26:45
 Time Off Btm: 2018.07.12 @ 17:48:30

TEST COMMENT: F: 4 1/2" blow.
 IS: No return.
 FF: 7 1/2" blow
 FS: No return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.83	115.76	Initial Hydro-static
1	12.02	114.57	Open To Flow (1)
29	32.26	117.60	Shut-In(1)
78	971.95	118.98	End Shut-In(1)
79	45.77	119.02	Open To Flow (2)
137	55.46	120.34	Shut-In(2)
201	902.31	122.43	End Shut-In(2)
202	2145.51	123.12	Final Hydro-static


Recovery		
Length (ft)	Description	Volume (bbl)
77.00	gocm 5g 15o 80m	0.38
3.00	oil 100o	0.01
0.00	160' GP	0.00

Gas Rates		
Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

Trilobite Testing, Inc

Ref. No: 63700

Printed: 2018.07.12 @ 21:58:44



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Brito Oil Co, Inc. **2 10s 31w Thomas, Ks**
 1223 N Rock Rd **Bix-Huel Unit #1-2**
 Bldg 1 Ste 100 Job Ticket: 64401 **DST#: 4**
 Wichita, Ks 67206 Test Start: 2018.07.13 @ 04:27:00
 ATTN: Logan Walker

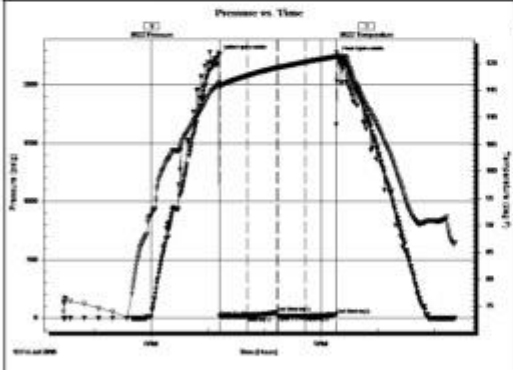
GENERAL INFORMATION:

Formation: **Myric Station**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:12:15 Test Type: Conventional Bottom Hole (Reset)
 Time Test Ended: 11:22:00 Tester: Bradley Walter
 Unit No: 78
 Interval: 4430.00 ft (KB) To 4474.00 ft (KB) (TVD) Reference Elevations: 2999.00 ft (KB)

Total Depth: 4474.00 ft (KB) (TVD) 2994.00 ft (CF)
 Hole Diameter: 7.88 inches/Hole Condition: Good KB to GRVCF: 5.00 ft

Serial #: 8522 Inside
 Press@RunDepth: 18.53 psig @ 4431.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.13 End Date: 2018.07.13 Last Calib.: 2018.07.13
 Start Time: 04:27:05 End Time: 11:21:59 Time On Btm: 2018.07.13 @ 07:12:00
 Time Off Btm: 2018.07.13 @ 09:17:45

TEST COMMENT: IF: 1/2" blow.
 IS: No return.
 FF: No blow.
 FS: No return.



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2259.12	116.45	Initial Hydro-static
1	15.20	115.42	Open To Flow (1)
30	15.91	117.77	Shut-in(1)
62	48.42	119.25	End Shut-in(1)
62	17.46	119.22	Open To Flow (2)
92	18.53	120.29	Shut-in(2)
124	30.17	121.31	End Shut-in(2)
128	2244.82	121.18	Final Hydro-static

Length (ft)	Description	Volume (bbl)
10.00	ocm 3o 97m	0.05

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

Triobite Testing, Inc Ref. No: 64401 Printed: 2018.07.13 @ 14:53:13

ROCK TYPES

Cht vari
 Dolprim
 Lmst fw<7
 Lmst fw>7
 shale, grn
 shale, gry
 Carbon Sh
 shale, red
 Ss

ACCESSORIES

MINERAL
 ▲ Chert, dark
 / Dolomitic
 ∩ Glauconite
 P Pyrite
 ▨ Varicolored chert
 △ Chert White

FOSSIL
 ⊙ Crinoids
 ○ Oolite

STRINGER
 ■ Sandstone

TEXTURE
 C Chalky

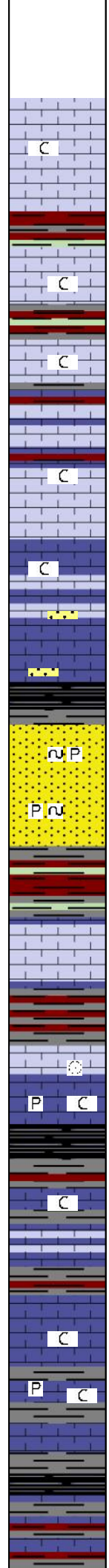
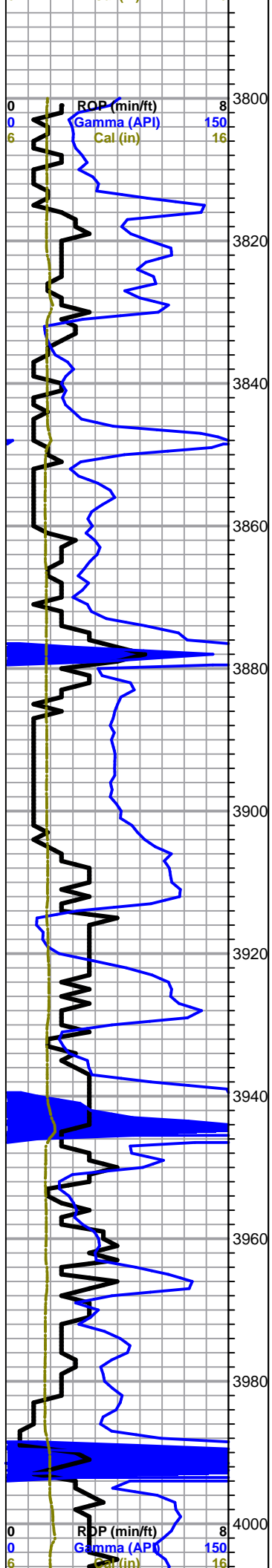
OTHER SYMBOLS

Oil Show
 ● Good Show
 ● Fair Show
 ● Poor Show
 ○ Spotted or Trace
 ○ Questionable Stn
 D Dead Oil Stn
 ■ Fluorescence
 * Gas

DST
 ■ DST Int
 ■ DST alt
 ■ Core
 ■ tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #1				Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5				
ROP (min/ft)	Gamma (API)	Cal (in)	Total Gas (units)						C1 (units)	C2 (units)	C3 (units)	C4 (units)	
0	150	16	8						0	100	100	100	100
6									0				



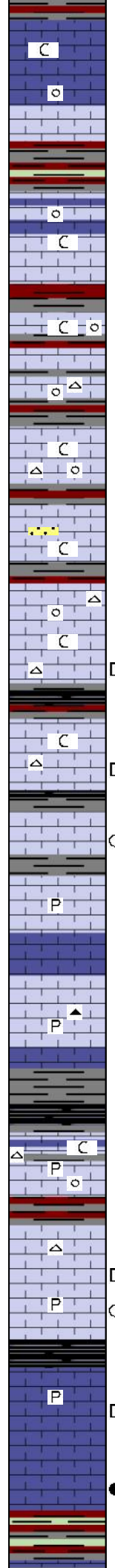
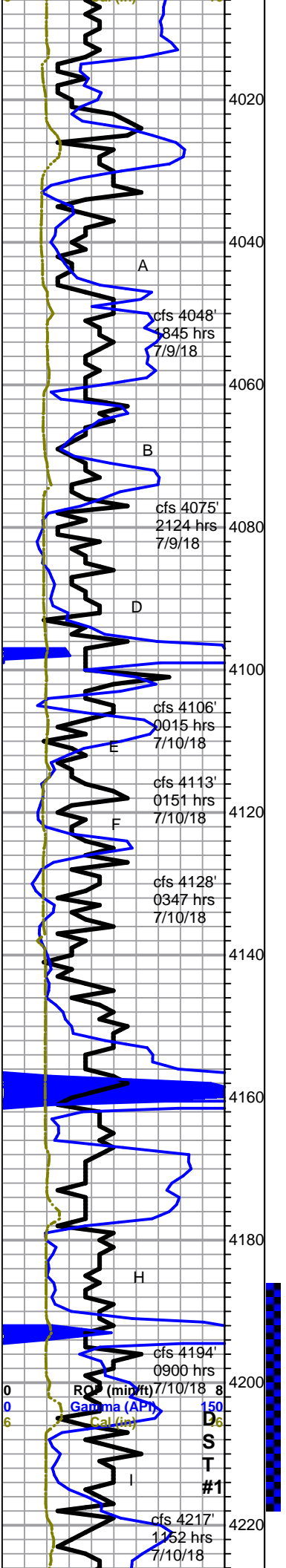
10ft Samples

- 3800-3810 Limestone, white to cream, microcrystalline, fossiliferous, bioclastic, soft to dense, sub pyritic, no shows
- 3810-3820 Limestone, white to cream, microcrystalline, fossiliferous, bioclastic, soft to dense, pyritic, sub chalky, no shows
- 3820-3830 Shale, red to pale green to red/orange to gray, firm to dense
- 3830-3840 Limestone, white, microcrystalline, fossiliferous, bioclastic, soft to dense, white chert, sharp, angular, sub chalky, no shows
- 3840-3850 Shale, red to pale green to gray, firm to dense
- 3850-3860 Limestone, white to cream, microcrystalline, fossiliferous, bioclastic, soft to dense, weathered, sub chalky, no shows
- 3860-3870 Limestone, cream, microcrystalline, fossiliferous, bioclastic, soft to dense, weathered, chalky, no shows
- 3870-3880 Limestone, cream, microcrystalline, fossiliferous, sub bioclastic, soft to dense, sub chalky, no shows
- 3880-3890 Limestone, cream to light gray, micro crystalline, fossiliferous, sandy, soft to dense, pyritic, dead staining,
- 3890-3900 Shale, black carbonaceous
- 3900-3910 Sandstone, gray to clear, fine grain, sub raounded to sub angular, well cemented, pyritic, glauconite, no shows
- 3910-3920 Shale, red to gray to pale grean, soft to dense, sandy
- 3920-3930 Limestone, white t cream, microcrystalline, fossiliferous, bioclastic, soft to dense, no shows
- 3930-3940 Shale, red to gray to pale grean, soft to dense, sandy
- 3940-3950 Limestone, white, microcrystalline, fosiliferous, sub bioclastic, soft to dense, white to orange chert, pyritic, crinoid sub chalky, no shows
- 3950-3960 Shale, black carbonaceous
- 3960-3970 limestone, cream to light brown, microcrystalline, fossilifersous, sub bioclastic, firm to dense, sub chalky, surface etching, no shows
- 3970-3980 Shale, gray to spotty red, soft to dense, pyritic, sandy
- 3980-3990 limestone, cream to light tan, microcrystalline, fossilifersous, firm to dense, chalky, no shows
- 3990-4000 Limestone, cream to light tan, microcrystalline, fossiliferous, soft to dense, pyritic, sub chalky, no shows

Heebner 3992' -993 Log Top 3990' -991

- 3990-3991 Shale, black carbonaceous
- 3991-3992 Limestone, cream to tan, microcrystalline, fossiliferous, soft to dense, pyritic, chert white, sharp, no shows

0	C3 (units)	100
0	C4 (units)	100
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
Mud-Co Mud chk @ 3900 ft. 1210 hrs: 7/09/18 Vis. 69 Wt. 8.7 PV 21 YP 17 WL 7.2 Cake 1/32, pH 11.5 CHL 1500 ppm Ca 10 ppm Sol 2.4 LCM 4# DMC \$2,766.70 CMC \$11,558.37		
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100



Shale, gray to red to pale green, soft to dense, sandy

limestone microcrystalline, fossiliferous, soft to dense, sharp, white chert, sub oolitic sub chalky, no shows

Limestone, white, microcrystalline, fossiliferous, soft to dense, sub pyritic, pin hule vugs. oolitic, ooliticlastic, no shows

Shale, red to gray to pale green, soft to dense, sandy

Lansing 4034' -1035 Log Top 4030' -1031

4048' 30-Min: Limestone, white, microcrystalline, fossiliferous, soft to dense, sub pyritic, pin hule vugs. oolitic, weathered, sub chalky, no shows

60-Min: Limestone, white, microcrystalline, fossiliferous, bioclastic, soft to dense, pin hule vugs. oolitic, weathered, no shows

Limestone, white, microcrystalline, fossiliferous, bioclastic, soft to dense, sub pyritic, glauconite, oolitic, weathered, sub chalky, no shows

30-Min: Limestone, white, microcrystalline, fossiliferous, bioclastic, soft to dense, crinoids, oolitic, weathered sub chalky, no shows

60-Min: Limestone, white, microcrystalline, fossiliferous, bioclastic, soft to dense, oolitic, weathered, white chert, sharp, sub chalky, no shows

limestone, cream, microcrystalline, fossiliferous, bioclastic, soft to dense, yellow opac chert, rounded, standstone stringer, fine grain, well sorted, well cemented, no show.

Limestone, white, microcrystalline, fossiliferous, bioclastic, soft to dense, white chert, sharp, sub chalky, no shows

4106' 30-Min: Limestone, white, microcrystalline, fossiliferous, bioclastic, soft to dense, oolitic, white chert sharp, weathered sub chalky, no shows

60-Min: Limestone, cream, microcrystalline, fossiliferous, bioclastic, soft to dense, weathered, white chert, sharp, sub chalky, spoty dead stain, no shows

4113' 30-Min: Limestone, cream to tan, microcrystalline, fossiliferous, sub bioclastic, soft to dense, surface etching, pin hole vugs, visible porosity, dead stain, no shows

60-Min: Limestone, cream, microcrystalline, fossiliferous, bioclastic, soft to dense, sharp, surface etching, pin hole vugs, visible porosity, dead stain, no shows

4128' 30-Min: Limestone, cream to tan, microcrystalline, fossiliferous, sub bioclastic, soft to dense, pyritic, surface etching, pin hole vugs, visible porosity, faint spotty free oil on break, spotty black staining, no odor, no cut, no fluorescence

60-Min: Limestone, cream, microcrystalline, fossiliferous, bioclastic, soft to dense, white chert, sharp, surface etching, pin hole vugs, visible porosity, , no shows

Limestone, white to cream, microcrystalline, fossiliferous, soft to dense, gray opac chert, sharp, pyritic, sub chalky, no shows

Munchie Creek 4160' -1161 Log Top 4158' -1159

Shale, black carbonaceous

Limestone, white to cream, microcrystalline, fossiliferous, bio clastic, ooliticlastic, oolitic, pyritic, white chert, sharp, sub chalky, no shows

Limestone, white to cream, microcrystalline, fossiliferous, bio clastic, soft to dense, pyritic, white chert, sharp, no shows,

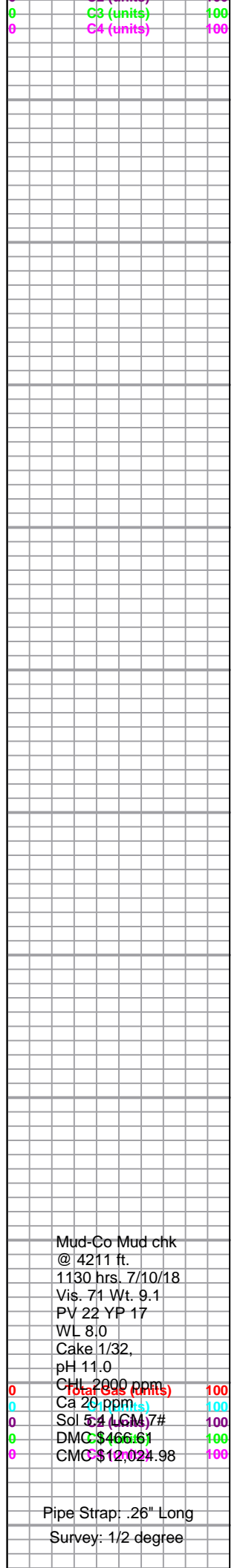
4194' 30-Min: Limestone, cream to light tan, microcrystalline, fossiliferous, bioclastic, soft to dense, pyritic, trace to spotted dead stains, questionable staining, no shows,

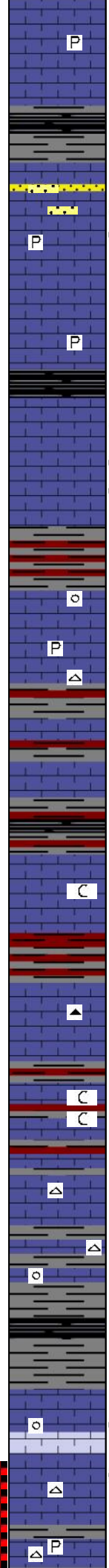
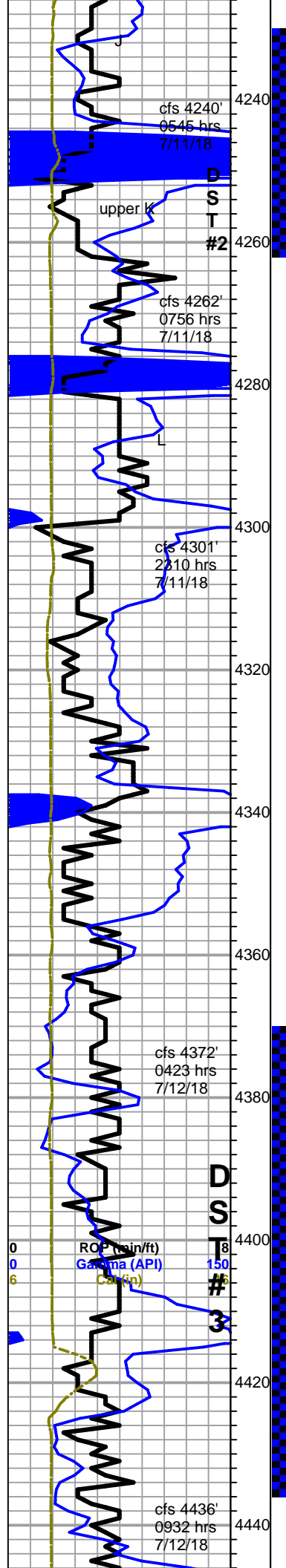
60-Min: Limestone, cream to light tan, microcrystalline, fossiliferous, bioclastic, soft to dense, pyritic, trace to spotted dead stains, questionable staining, no shows,

Limestone, tan to light brown, microcrystalline, fossiliferous, firm to dense, pyritic, surface etching, trace to spotty staining to dead stain, no shows

4217' 30-Min: Limestone, white to cream microcrystalline, fossiliferous, sub bioclastic, surface etching, spotty free oil in tray, free oil on break, good odor, good cut, gas bubble bleed, good fluorescence

60-Min: Limestone, cream microcrystalline, fossiliferous, sub bioclastic, oolitic, surface etching, spotty free oil in tray, free oil on break, fleeting odor, fair to good cut, gas bubble bleed, good fluorescence, dark to dead staining,





4240' 30-Min: Limestone, white to cream to light gray, microcrystalline, fossiliferous, soft to dense, pyritic, surface etching, trace to spotty dead staining, no shows
60-Min: same as above

Stark 4242' -1243 Log Top 4245' -1246

Shale, black carbonaceous
4262' 30-Min: Limestone, cream to light gray, microcrystalline, fossiliferous, soft to dense, sandy texture, dead staining through out sample, pyritic, well cemented, well sorted, soft to dense,
60-Min: Limestone, cream to light gray, microcrystalline, fossiliferous, soft to dense, pyritic, sandy texture, fine grain, well cemented, well sorted, soft to dense, faint to fleeting odor, dead stainin through out sample tray, dark staining,

Limestone, cream to light gray, microcrystalline, fossiliferous, soft to dense, pyritic, sub chalky, no shows

Shale, black carbonaceous

Limestone, tan to light gray, microcrystalline, fossiliferous, firm to dense, pyritic, crinoid, trace to spotted dead stain, no shows

Limestone, tan to light gray, microcrystalline, fossiliferous, firm to dense, pyritic, trace to spotted staining in fractures, faint to fleeting odor

Base KC 4300' -1301 Log Top 4300' -1301

4301' 30-Min: Limestone, cream, microcrystalline, fossiliferous, oolitic, soft to dense, surface etching, oolitic, staining in the oolitic factures, dead staining, faint to fleeting odor, no cut, no fluorescence
60-Min: same as above

Limestone, light gray, microcrystalline, fossiliferous, soft to dense, pyritic, weathered, oolitic, trace dead stain, no odor, no cut, no shows

Limestone, cream to light gray, microcrystalline, fossiliferous, sub bioclastic, soft to dense, pyritic, white chert, inbedded sharp, no shows

Marmaton 4333' -1334 Log Top 4330 -1331

Limestone, light gray, microcrystalline, fossiliferous, soft to dense, surface etching, no shows

Shales, gray to red, silty, sub gummy

Limestone, light gray, microcrystalline, fossiliferous, soft to dense, surface etching, chalky, no shows

Shale, red to gray, silty, gummy

4372' 30-Min: Limestone, light gray, microcrystalline, fossiliferous, soft to dense, pyritic, surface etching, opac salmon chert, sharp, sub chalky, trace dead stain, no odor, no cut, no shows
60-Min: Limestone, same as above, pin hole vugs, trace dead stain, faint fleeting odor, no cut, no shows

Limestone, light gray, microcrystalline, fossiliferous, soft to dense, surface etching, chalky, no shows

Limestone, white to cream, microcrystalline, fossiliferous, soft to dense, surface etching, pin hole vugs, white chert, sub chalky, no shows

Limestone, cream to tan, microcrystalline, fossiliferous, soft to dense, oolitic, white chert, pyritic, sub chalky, no shows

Shale, black carbonaceous to gray to dark gray to spotted red, silty

Pawnee 4421' -1422 Log Top 4424' -1425

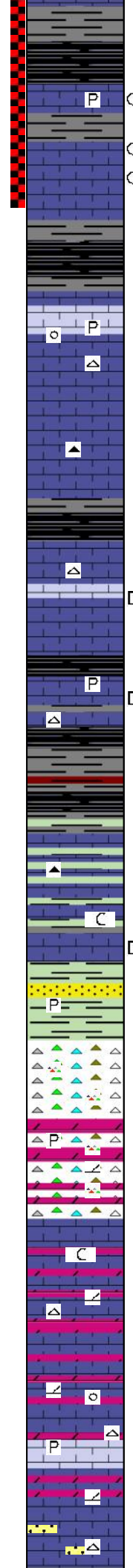
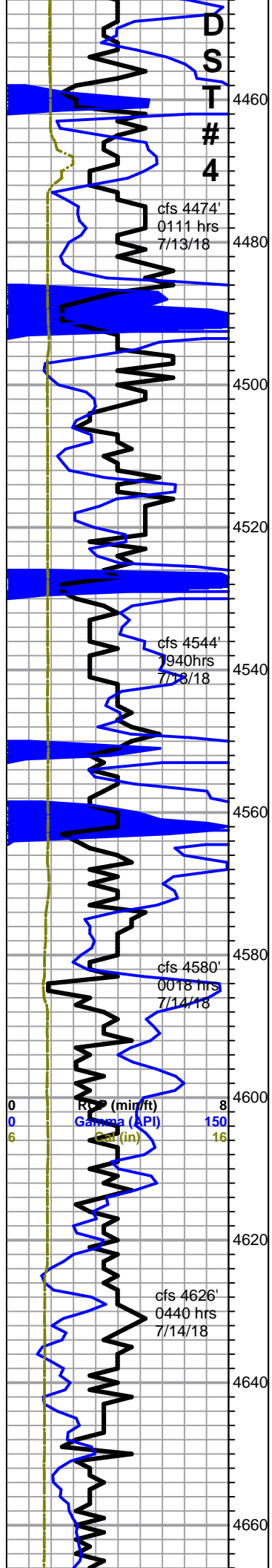
Limestone, cream to tan, microcrystalline, fossiliferous, soft to dense, oolitic, pyritic, trace to spotted free oil in tray, tight porosity, slow to good bleed from sample

4436' 30-Min: Limestone, cream to tan, microcrystalline, fossiliferous, sub bioclastic, soft to dense, pin hole vugs, visible prosity, bleeding oil, free oil in tray, good cut, good fluorescence
60-Min: Limstone same as above no shows

Limestone, tan, microcrystalline, fossiliferous, firm to dense, pyritic,

Mud-Co Mud chk @ 4262 ft. 1130 hrs. 7/11/18 Vis. 60 Wt. 9.1 PV 16 YP 15 WL 8.8 Cake 1/32, pH 10.0 CHL 3,200 ppm Ca 40 ppm Sol 5.3 LCM 5# DMC \$0.00 CMC \$12,024.98

Mud-Co Mud chk @ 4436 ft. 1215 hrs. 7/12/18 Vis. 73 Wt. 9.1 PV 22 YP 15 WL 9.6 Cake 2/32, pH 9.5 CHL 3,500 ppm Ca 120 ppm Sol 5.3 LCM 4# DMC \$0.00 CMC \$12,024.98



white opac chert, sharp, sub chalky, no shows

Shale, black carbonaceous to gray to dark gray

Limestone, tan, microcrystalline, fossiliferous, firm to dense, pyritic, Pin hole vugs, trace to spotted free in tray, oil bleed from vug, fair to good cut, sharp, sub chalky, no shows

4474' 30-Min: Limestone, tan, microcrystalline, fossiliferous, soft to dense, pyritic, crystallized Pin hole vugs, trace to spotted free in tray, oil bleed from vug, fair cut, sharp, surface etching, no shows

60-Min: same as above

Fort Scott 4987' -1488 Log Top 4492' -1493

Shale, black carbonaceous

Limestone, tan to light gray, microcrystalline, fossiliferous, sub bioclastic, soft to dense, oolitic, pyritic, white chert, sharp, no shows

Limestone, light gray, microcrystalline, fossiliferous, soft to dense, white opac to brown opac chert, sharp, no shows

Limestone, light gray to brown, microcrystalline, fossiliferous, pyritic, crinoid, brown opac chert sharp, no shows

Cherokee 4516' -1516 Log Top 4526' -1527

Shale, black carbonaceous

Limestone, light gray, microcrystalline, fossiliferous, opac white chert, sharp, dark black dead staining, no odor, no shows

Shale, black carbonaceous

4544' 30-Min: Limestone, light gray, microcrystalline, fossiliferous, sub oolitic, crinoid, pyritic, brown opac chert, sharp, sub chalky, no shows

60-Min: Limestone, cream to light, microcrystalline, fossiliferous, pyritic, opac chert, dead staining through lime fractures, no odor, chalky, no shows

Shale, black carbonaceous to gray

Johnson Zn 4562' -1563 Log Top 4573' -1574

Shale, gray to green

Limestone, tan, microcrystalline, fossiliferous, pyritic, soft to dense, fractured, brown opac chert, sharp, sub chalky, no shows

4580' 30-Min: Limestone, tan, microcrystalline, fossiliferous, sub bioclastic, pyritic, soft to dense, sub chalky, no shows

60-Min: Same as above, sub surface etching, trace dead stain on fractures, no odor, no shows

Sandstone, clear to cloudy, fine to medium to large grain, poor sorting, well cemented, rounded to angular, pyritic, no shows

Chert, multi colored, sharp, fresh, no shows

Limestone, cream dolomitic, fossiliferous, pyritic, chert, multi colored, sharp, fresh, no shows

Mississippian 4616 -1617 Log Top 4614' -1615

Limestone, Dolomitic, white to cream, microcrystalline, fossiliferous, weathered, chalky, no shows

Limestone, Dolomitic, white to cream, microcrystalline, fossiliferous, weathered, chalky, no shows

Limestone, dolomitic, white to cream, microcrystalline, fossiliferous, soft to dense weathered, oolitic, opac chert, sharp, no shows

Limestone, dolomitic, white to cream, microcrystalline, fossiliferous, soft to dense, weathered, oolitic, gray opac chert, sharp, pyritic, no shows

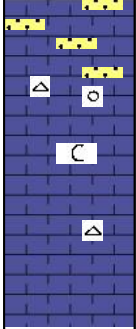
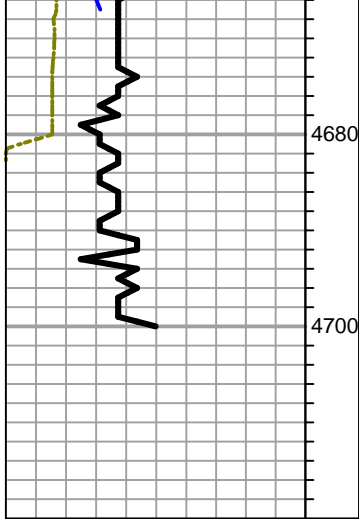
Limestone, light gray, microcrystalline, fossiliferous, sandy texture, pyritic, white opac fossilized chert, sharp, no shows

Survey 3/4 degrees

Mud-Co Mud chk @ 4474 ft. 1100 hrs. 7/13/18
 Vis. 63 Wt. 9.3
 PV 19 YP 17
 WL 10.4
 Cake 1/32, pH 9.5
 CHL 5,000 ppm
 Ca 200 ppm
 Sol 6.6 LCM 4#
 DMC \$62.52
 CMC \$12,087.50

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Mud-Co Mud chk @ 4700 ft.



Limestone, light gray, microcrystalline, fossiliferous, sandy texture, pyritic, white opac fossilized chert, sharp, no shows

Limestone, white, microcrystalline, recrystallized, fossiliferous, bioclastic, soft to dense, weathered, oolitic to oolitic, pyritic, white to cream opac fossilized chert, sharp, sub chalky, no shows

Limestone, white to cream, microcrystalline, recrystallized, fossiliferous, sub bioclastic, weathered, soft to dense, pyritic, white to cream opac fossilized chert, sharp, no shows

RTD @ 4700' 7/14/18 1003hrs

Logged TD @ 4701'

© 1700 ft.
 1130 hrs. 7/14/18
 Vis. 64 Wt. 9.3
 PV 21 YP 18
 WL 8.0
 Cake 8/32,
 pH 10.5
 CHL 5,500 ppm
 Ca 40 ppm
 Sol 6.4 LCM 4#
 DMC \$1,324.02
 CMC \$13,411.52

Survey 3/4 degrees