

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	METZGER 1-18
Doc ID	1393439

Tops

Name	Top	Datum
Anhydrite	2351	781
B/Anhydrite	2368	764
Heebner	3986	-854
Lansing	4024	-892
Muncie Crk	4225	-1093
Stark	4333	-1201
BKC	4436	-1304
Marmaton	4490	-1358
Ft Scott	4634	-1502
Cherokee	4658	-1525
Marrow Sh	4797	-1665
Mississippi	4849	-1717





## DRILL STEM TEST REPORT

Prepared For: **Brito Oil Company**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206

ATTN: Robert Hendrix

### **Metzger #1-18**

### **18-19s-34w Scott,KS**

Start Date: 2018.01.01 @ 02:32:15

End Date: 2018.01.01 @ 10:56:30

Job Ticket #: 64405                      DST #: 1

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

Printed: 2018.01.05 @ 14:52:27



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brito Oil Company

**18-19s-34w Scott,KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64405

**DST#: 1**

Test Start: 2018.01.01 @ 02:32:15

## GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:03:00

Time Test Ended: 10:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

**Interval: 4331.00 ft (KB) To 4390.00 ft (KB) (TVD)**

Reference Elevations: 3132.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

3127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8962 Outside**

Press@RunDepth: 134.67 psig @ 4337.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.01 End Date: 2018.01.01

Last Calib.: 2018.01.01

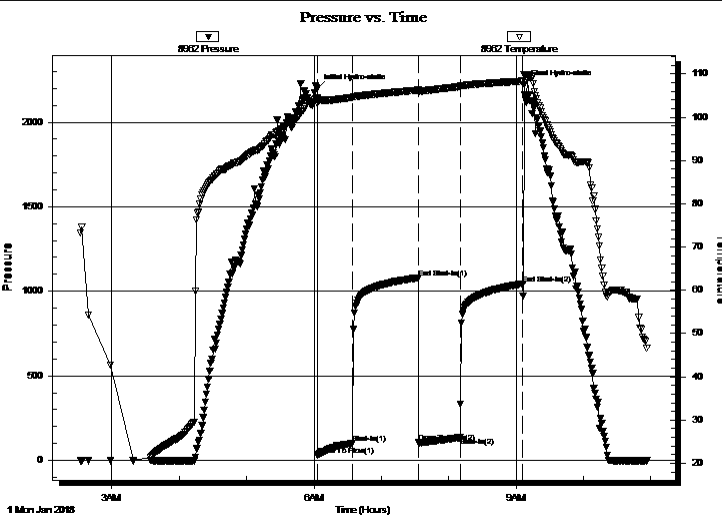
Start Time: 02:32:15 End Time: 10:56:30

Time On Btm: 2018.01.01 @ 06:02:45

Time Off Btm: 2018.01.01 @ 09:07:00

**TEST COMMENT:** IF: Built to 5" blow  
IS: No return blow  
FF: Built to 5" blow  
FS: No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.47	104.44	Initial Hydro-static
1	30.55	103.17	Open To Flow (1)
32	99.46	104.60	Shut-In(1)
90	1078.85	106.28	End Shut-In(1)
91	104.25	105.90	Open To Flow (2)
128	134.67	107.10	Shut-In(2)
184	1044.09	108.37	End Shut-In(2)
185	2221.33	109.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
244.00	mud w ith oil spots	2.33

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brito Oil Company

**18-19s-34w Scott, KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64405

**DST#: 1**

Test Start: 2018.01.01 @ 02:32:15

## Tool Information

Drill Pipe:	Length: 4205.00 ft	Diameter: 3.80 inches	Volume: 58.99 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4331.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	79.00 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			4312.00	
Shut In Tool	5.00			4317.00	
Hydraulic tool	5.00			4322.00	
Packer	5.00			4327.00	20.00 Bottom Of Top Packer
Packer	4.00			4331.00	
Stubb	1.00			4332.00	
Perforations	4.00			4336.00	
Change Over Sub	1.00			4337.00	
Recorder	0.00	8356	Inside	4337.00	
Recorder	0.00	8962	Outside	4337.00	
Drill Pipe	32.00			4369.00	
Change Over Sub	1.00			4370.00	
Perforations	17.00			4387.00	
Bullnose	3.00			4390.00	59.00 Bottom Packers & Anchor

**Total Tool Length: 79.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brito Oil Company

**18-19s-34w Scott, KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64405

**DST#: 1**

Test Start: 2018.01.01 @ 02:32:15

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.71 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
244.00	mud w ith oil spots	2.330

Total Length: 244.00 ft      Total Volume: 2.330 bbl

Num Fluid Samples: 0

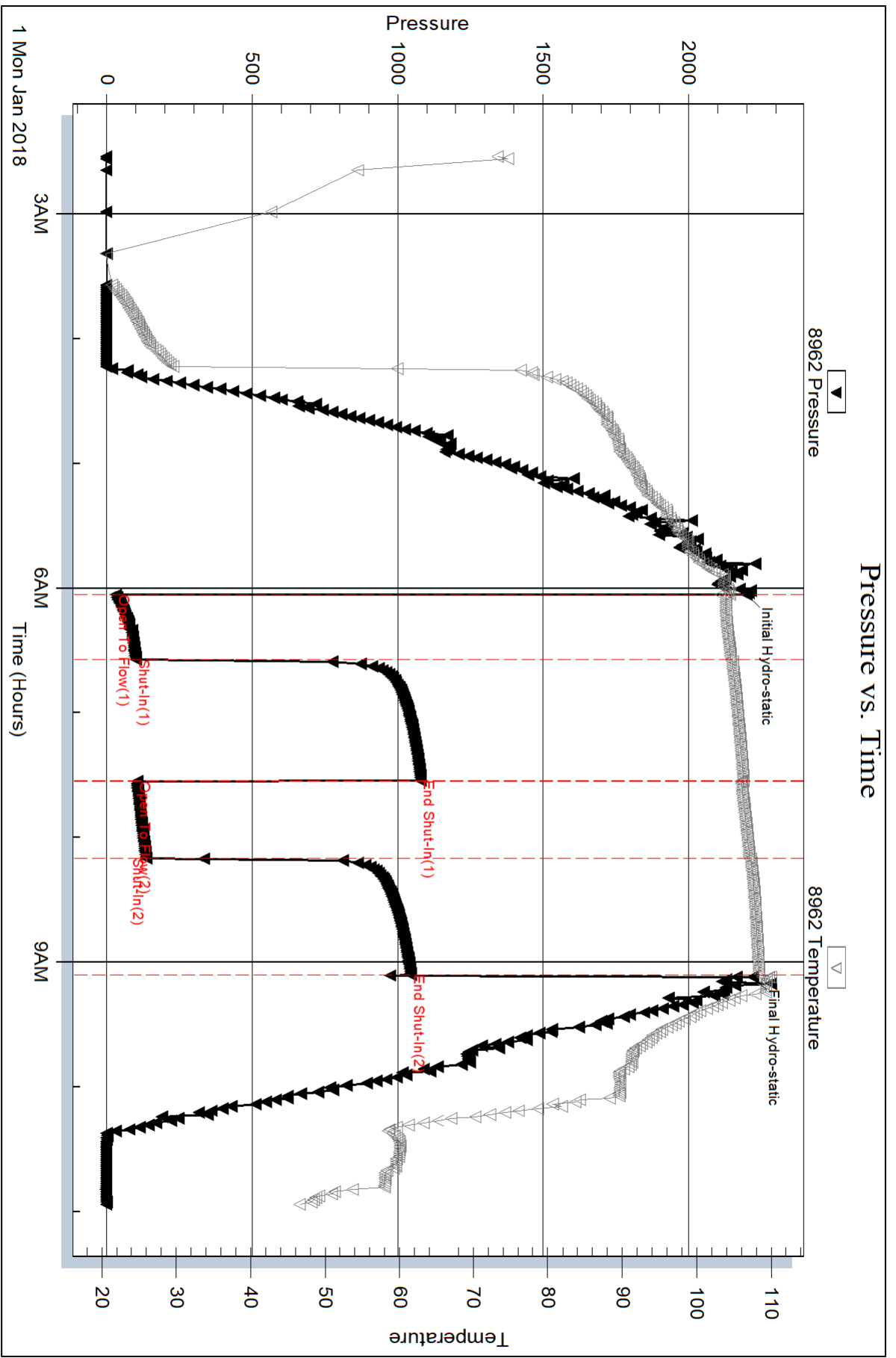
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



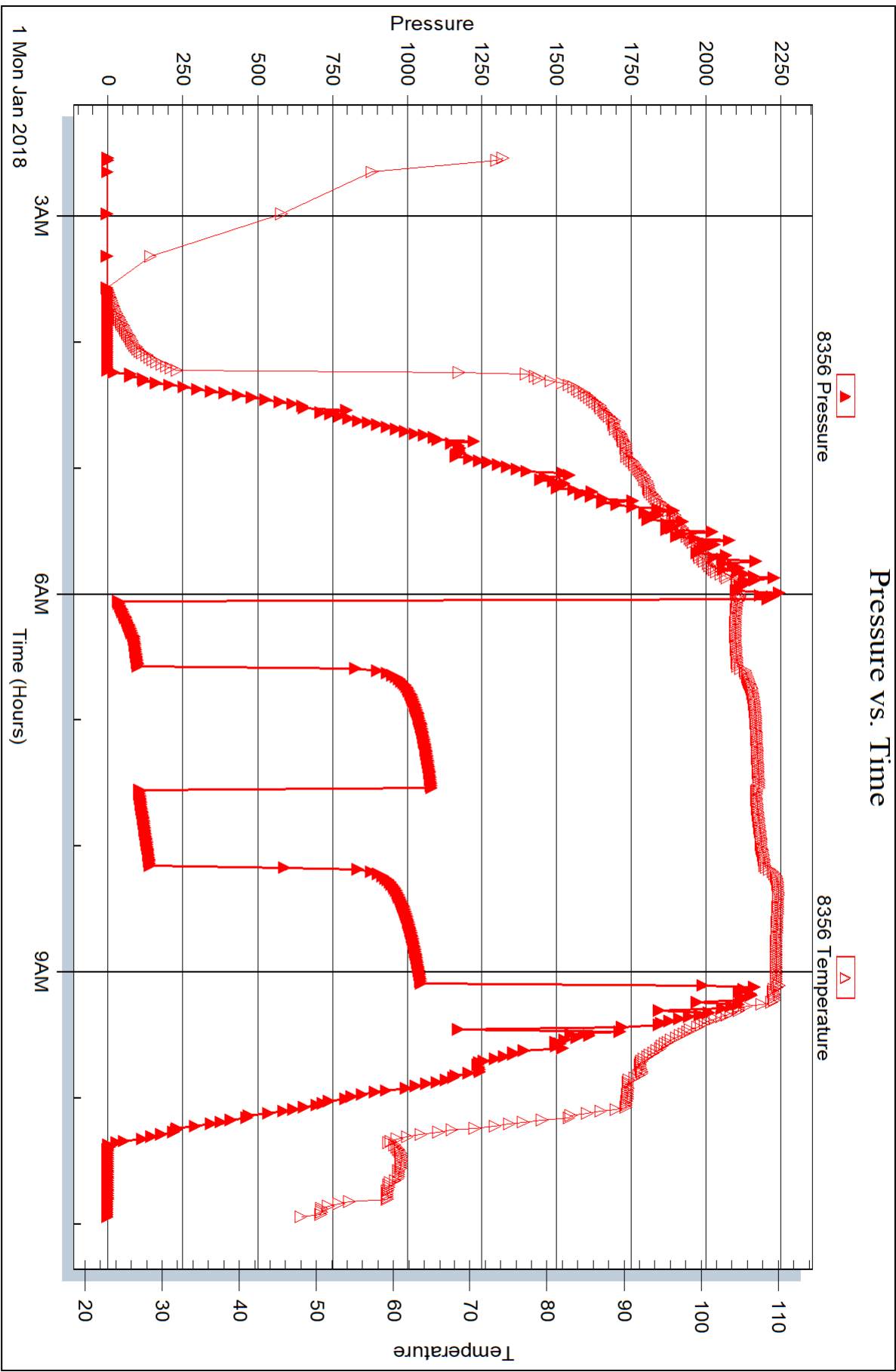
Serial #: 8356

Inside

Brito Oil Company

Metzger #1-18

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Brito Oil Company**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206

ATTN: Robert Hendrix

### **Metzger #1-18**

### **18-19s-34w Scott,KS**

Start Date: 2018.01.02 @ 12:08:15

End Date: 2018.01.02 @ 18:01:45

Job Ticket #: 64406                      DST #: 2

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

Printed: 2018.01.05 @ 14:48:59



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brito Oil Company

**18-19s-34w Scott,KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64406

**DST#: 2**

Test Start: 2018.01.02 @ 12:08:15

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:58:30

Time Test Ended: 18:01:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 4571.00 ft (KB) To 4610.00 ft (KB) (TVD)**

Reference Elevations: 3132.00 ft (KB)

Total Depth: 4610.00 ft (KB) (TVD)

3127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8962 Outside**

Press@RunDepth: 35.85 psig @ 4577.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.02

End Date:

2018.01.02

Last Calib.:

2018.01.02

Start Time: 12:08:15

End Time:

18:01:45

Time On Btm:

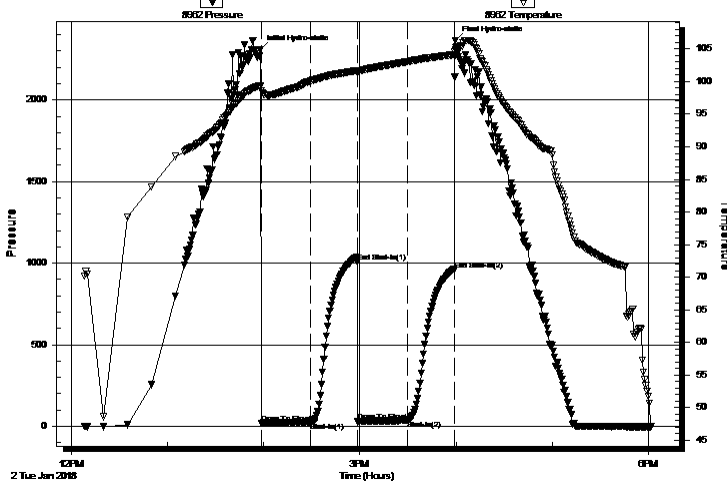
2018.01.02 @ 13:58:00

Time Off Btm:

2018.01.02 @ 15:59:30

TEST COMMENT: IF: Built to 3/4" blow  
IS: No return blow  
FF: Built to 1/8" blow  
FS: No return blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2309.86	99.34	Initial Hydro-static
1	17.71	98.57	Open To Flow (1)
32	26.32	100.14	Shut-In(1)
61	1005.75	101.68	End Shut-In(1)
61	28.74	101.42	Open To Flow (2)
92	35.85	103.06	Shut-In(2)
121	959.41	104.15	End Shut-In(2)
122	2362.24	104.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100% m	0.10

\* 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 Company

**18-19s-34w Scott,KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64406

**DST#: 2**

Test Start: 2018.01.02 @ 12:08:15

## Tool Information

Drill Pipe:	Length: 4461.00 ft	Diameter: 3.80 inches	Volume: 62.58 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4571.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	79.00 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			4552.00	
Shut In Tool	5.00			4557.00	
Hydraulic tool	5.00			4562.00	
Packer	5.00			4567.00	20.00 Bottom Of Top Packer
Packer	4.00			4571.00	
Stubb	1.00			4572.00	
Perforations	4.00			4576.00	
Change Over Sub	1.00			4577.00	
Recorder	0.00	8356	Inside	4577.00	
Recorder	0.00	8962	Outside	4577.00	
Drill Pipe	32.00			4609.00	
Change Over Sub	1.00			4610.00	
Perforations	17.00			4627.00	
Bullnose	3.00			4630.00	59.00 Bottom Packers & Anchor

**Total Tool Length: 79.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brito Oil Company

**18-19s-34w Scott, KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64406

**DST#: 2**

Test Start: 2018.01.02 @ 12:08:15

## 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:

bbf

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	mud 100% m	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

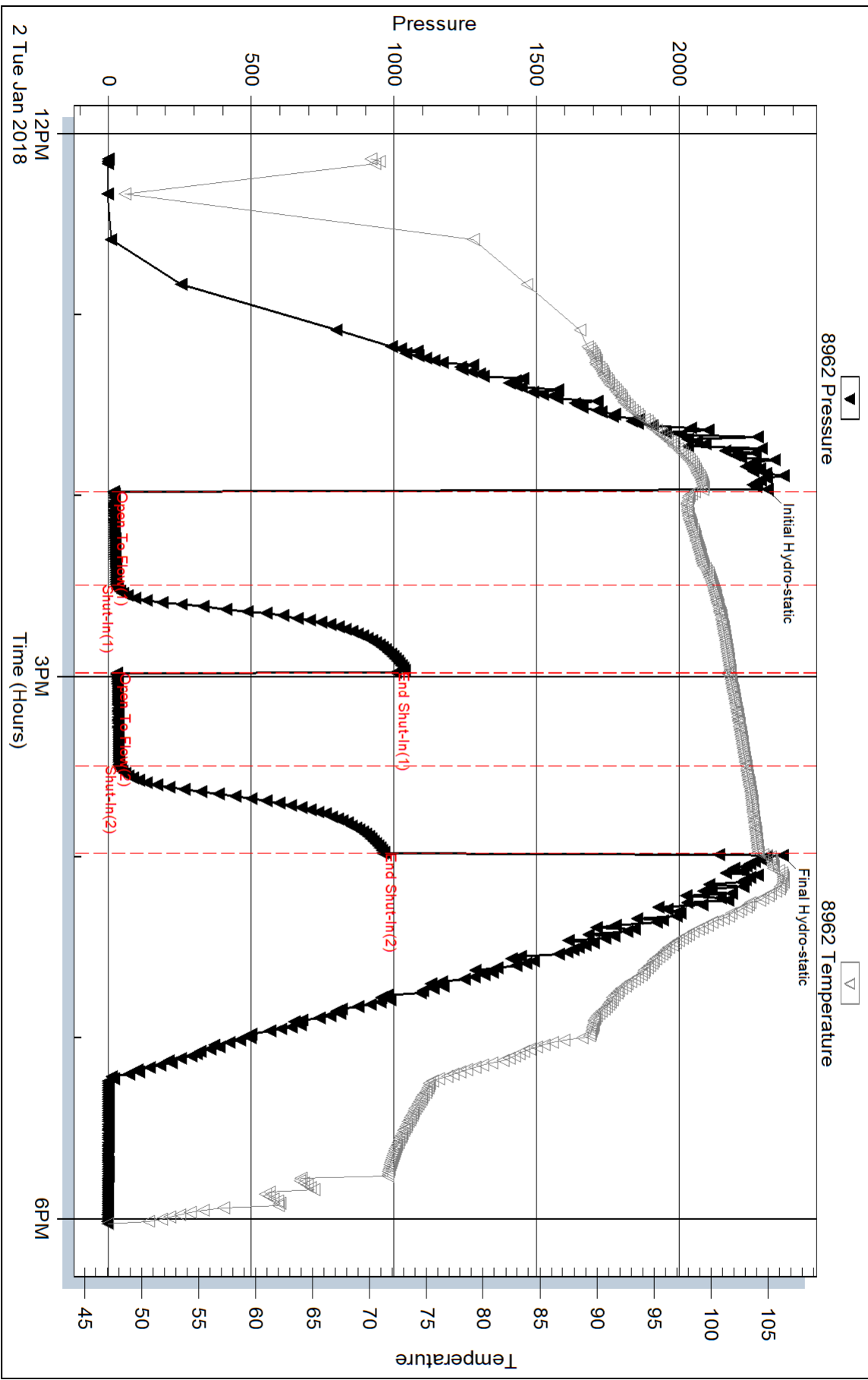
Laboratory Name:

Laboratory Location:

Recovery Comments:



# Pressure vs. Time



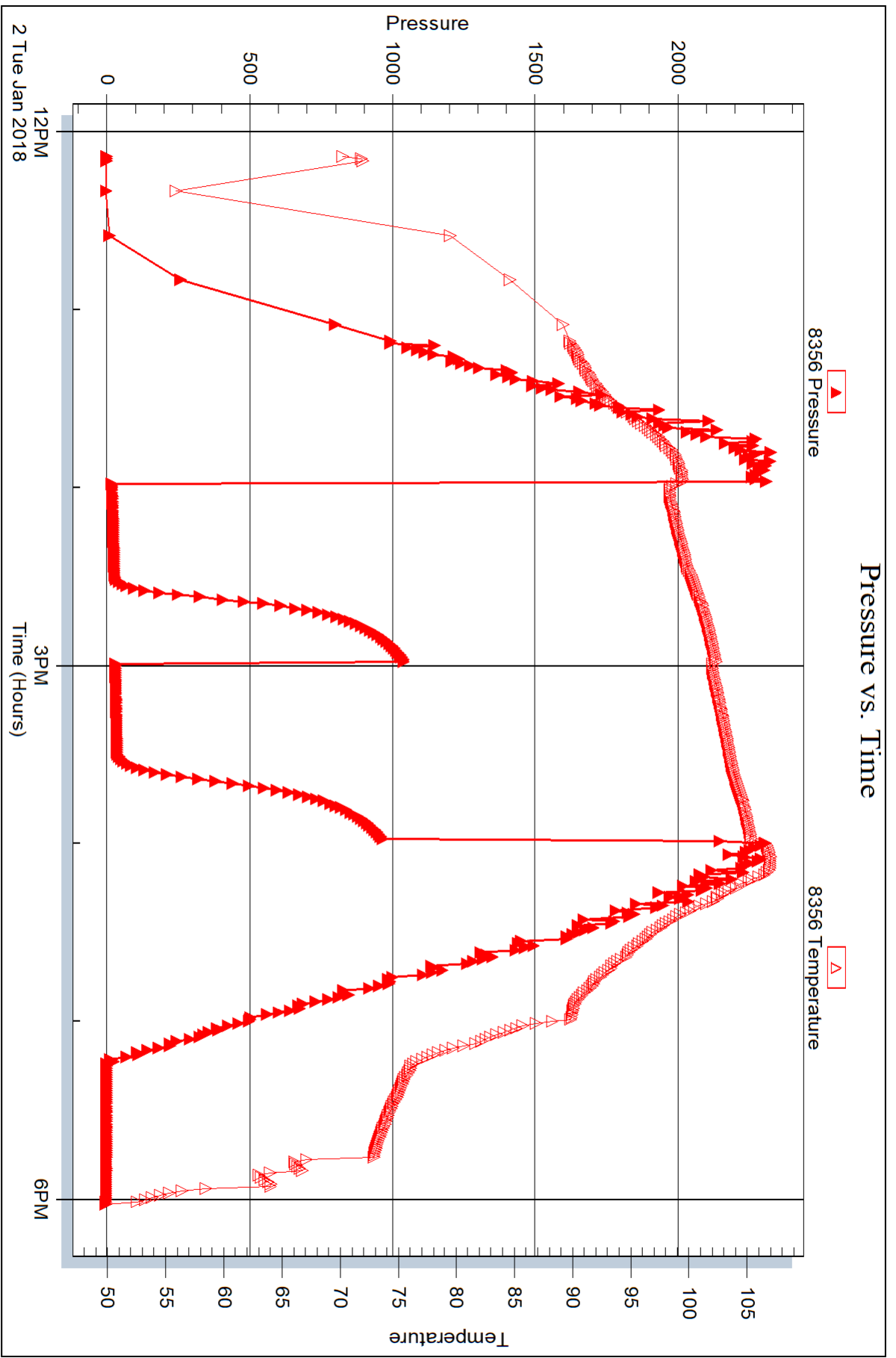
Serial #: 8356

Inside

Brito Oil Company

Metzger #1-18

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 64406

Printed: 2018.01.05 @ 14:49:00



## DRILL STEM TEST REPORT

Prepared For: **Brito Oil Company**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206

ATTN: Robert Hendrix

### **Metzger #1-18**

### **18-19s-34w Scott,KS**

Start Date: 2018.01.04 @ 13:34:15

End Date: 2018.01.04 @ 18:04:00

Job Ticket #: 64407                      DST #: 3

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

Printed: 2018.01.05 @ 14:48:25



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brito Oil Company

**18-19s-34w Scott, KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64407

**DST#: 3**

Test Start: 2018.01.04 @ 13:34:15

## GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 18:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 4496.00 ft (KB) To 4556.00 ft (KB) (TVD)**

Reference Elevations: 3132.00 ft (KB)

Total Depth: 4970.00 ft (KB) (TVD)

3127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8968 Below (Straddle)**

Press@RunDepth: psig @ 4966.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.04

End Date:

2018.01.04

Last Calib.:

2018.01.04

Start Time:

13:34:15

End Time:

18:04:00

Time On Btm:

2018.01.04 @ 15:32:15

Time Off Btm:

2018.01.04 @ 15:37:30

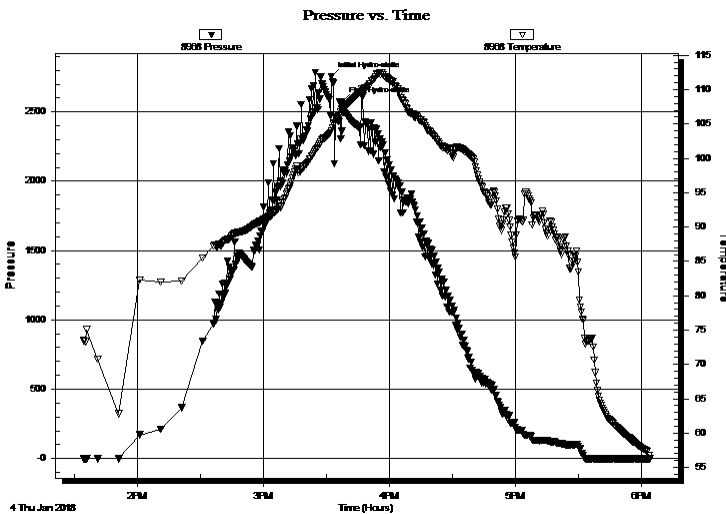
TEST COMMENT: IF:PACKER FAILURE

IS:

FF:

FS:

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2753.56	104.05	Initial Hydro-static
6	2571.36	107.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	mud	2.41

## 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 Company

**18-19s-34w Scott,KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64407

**DST#: 3**

Test Start: 2018.01.04 @ 13:34:15

## Tool Information

Drill Pipe:	Length: 4370.00 ft	Diameter: 3.80 inches	Volume: 61.30 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4496.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	474.00 ft			
Tool Length:	494.00 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			4477.00	
Shut In Tool	5.00			4482.00	
Hydraulic tool	5.00			4487.00	
Packer	5.00			4492.00	20.00 Bottom Of Top Packer
Packer	4.00			4496.00	
Stubb	1.00			4497.00	
Perforations	3.00			4500.00	
Change Over Sub	1.00			4501.00	
Drill Pipe	31.00			4532.00	
Change Over Sub	1.00			4533.00	
Perforations	19.00			4552.00	
Blank Off Sub	1.00			4553.00	474.00 Tool Interval
Packer	3.00			4556.00	
Stubb	1.00			4557.00	
Change Over Sub	1.00			4558.00	
Recorder	0.00	8356	Outside	4558.00	
Recorder	0.00	8962	Inside	4558.00	
Drill Pipe	408.00			4966.00	
Recorder	0.00	8968	Below	4966.00	
Change Over Sub	1.00			4967.00	
Bullnose	3.00			4970.00	1000493.00 Bottom Packers & Anchor

**Total Tool Length: 494.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brito Oil Company

**18-19s-34w Scott, KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64407

**DST#: 3**

Test Start: 2018.01.04 @ 13:34:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	mud	2.414

Total Length: 250.00 ft      Total Volume: 2.414 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

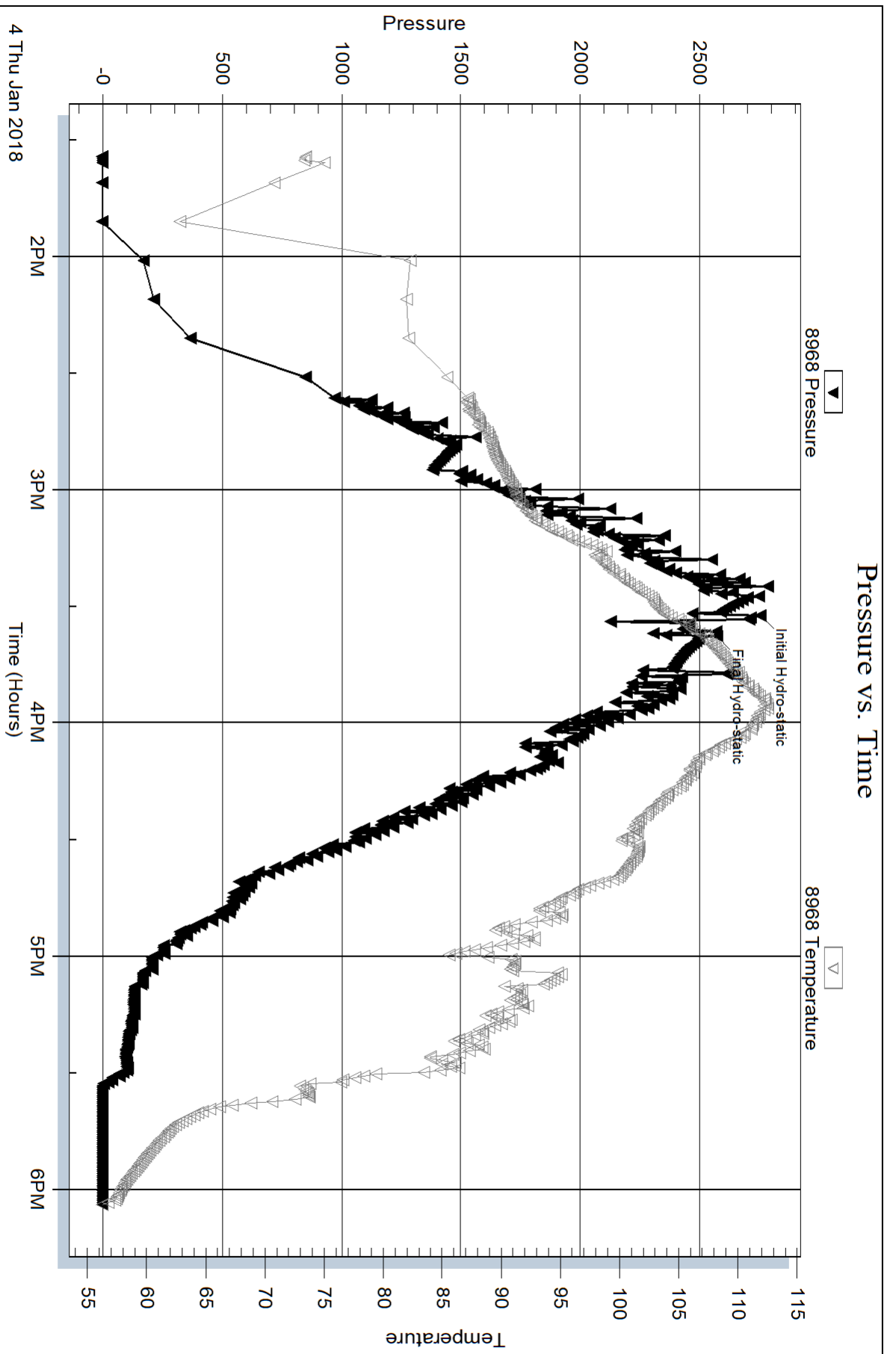
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





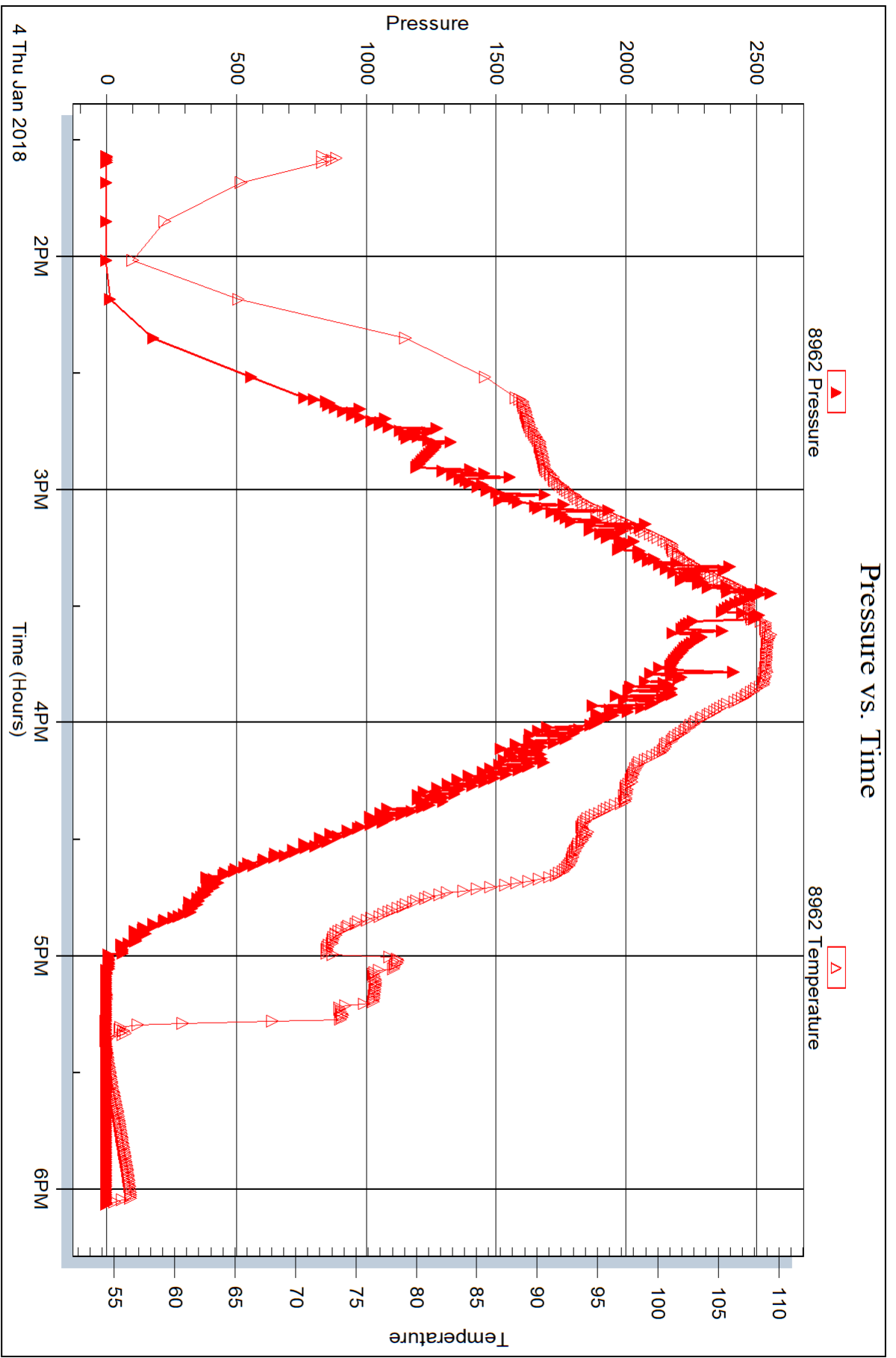
Serial #: 8962

Inside

Brito Oil Company

Metzger #1-18

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64407

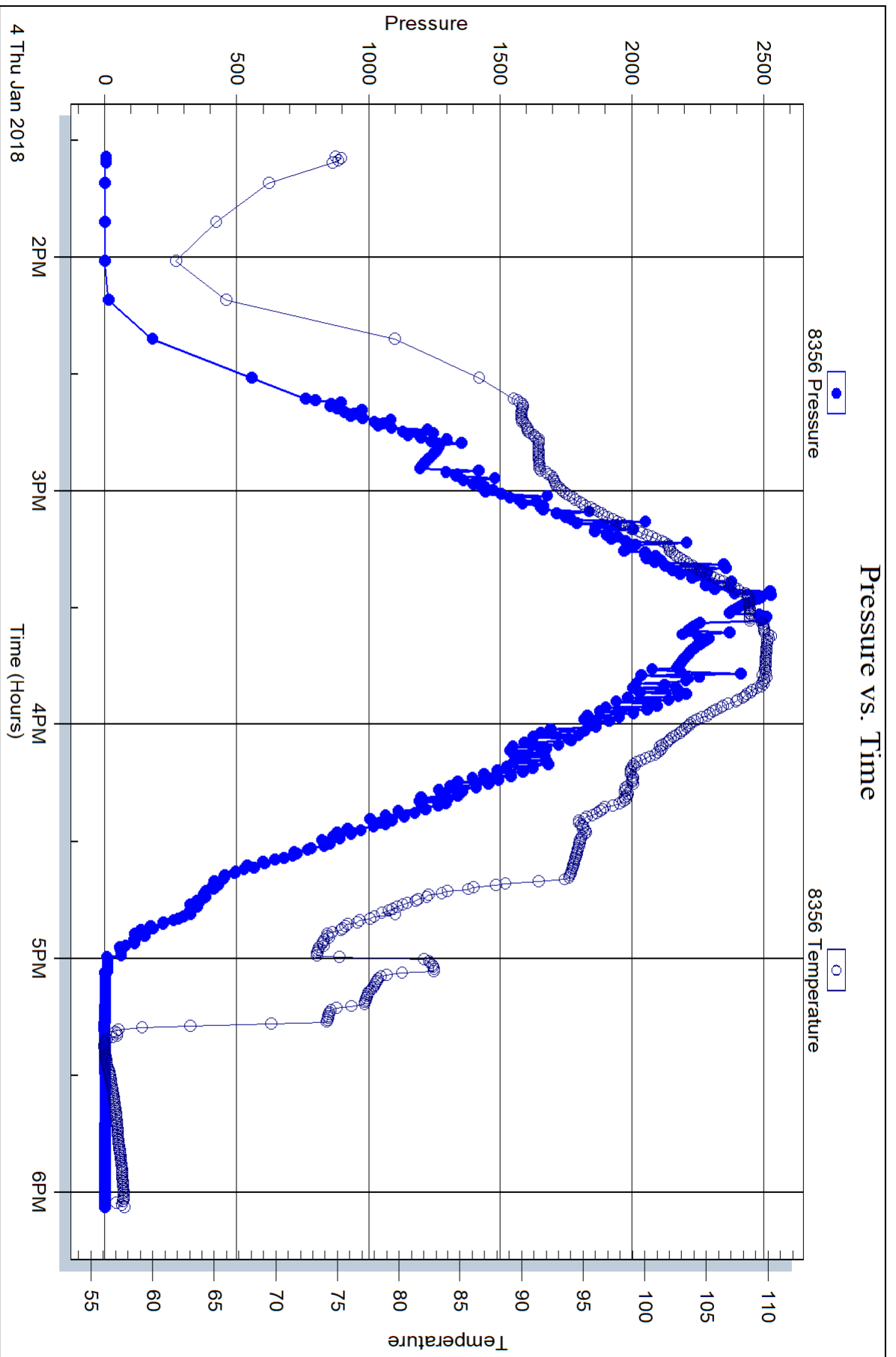
Printed: 2018.01.05 @ 14:48:27

Serial #: 8356

Outside Brito Oil Company

Metzger #1-18

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Brito Oil Company**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206

ATTN: Robert Hendrix

### **Metzger #1-18**

### **18-19s-34w Scott,KS**

Start Date: 2018.01.04 @ 18:28:00

End Date: 2018.01.05 @ 02:03:45

Job Ticket #: 64408                      DST #: 4

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

Printed: 2018.01.05 @ 14:46:01



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brito Oil Company

**18-19s-34w Scott, KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64408

**DST#: 4**

Test Start: 2018.01.04 @ 18:28:00

## GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:11:00

Time Test Ended: 02:03:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 4520.00 ft (KB) To 4560.00 ft (KB) (TVD)**

Reference Elevations: 3132.00 ft (KB)

Total Depth: 4970.00 ft (KB) (TVD)

3127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8962 Inside**

Press@RunDepth: 180.80 psig @ 4556.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.04

End Date:

2018.01.05

Last Calib.: 2018.01.05

Start Time: 18:28:15

End Time:

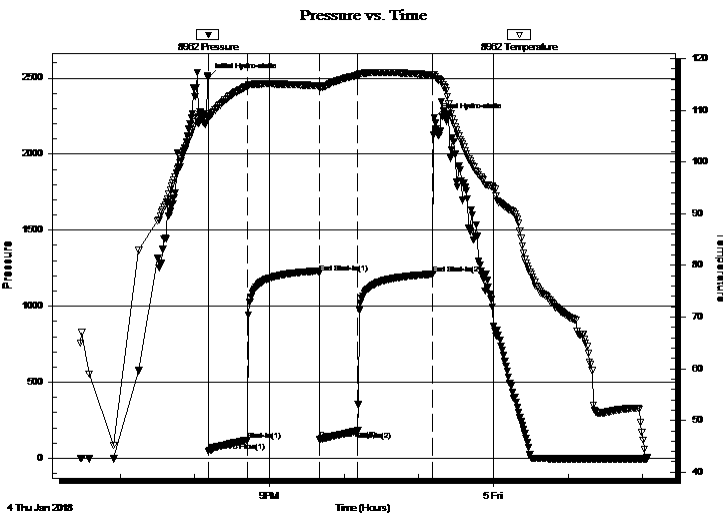
02:03:45

Time On Btm: 2018.01.04 @ 20:10:45

Time Off Btm: 2018.01.04 @ 23:12:30

**TEST COMMENT:** IF:BOB in 25 min.  
IS:No return blow  
FF:BOB in 28 min.  
FS:No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2502.88	109.35	Initial Hydro-static
1	45.04	108.48	Open To Flow (1)
32	119.50	114.65	Shut-In(1)
90	1217.63	114.71	End Shut-In(1)
90	125.93	114.37	Open To Flow (2)
121	180.80	116.77	Shut-In(2)
181	1211.36	116.84	End Shut-In(2)
182	2238.56	116.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw 7% m 93% w	0.59
124.00	w cm 30% w 70% m	1.74
82.00	mud 100% m	1.15

## 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 Company

**18-19s-34w Scott, KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64408

**DST#: 4**

Test Start: 2018.01.04 @ 18:28:00

## Tool Information

Drill Pipe:	Length: 4399.00 ft	Diameter: 3.80 inches	Volume: 61.71 bbl	Tool Weight: 1500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4520.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	450.00 ft			
Tool Length:	470.00 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			4501.00	
Shut In Tool	5.00			4506.00	
Hydraulic tool	5.00			4511.00	
Packer	5.00			4516.00	20.00 Bottom Of Top Packer
Packer	4.00			4520.00	
Stubb	1.00			4521.00	
Perforations	35.00			4556.00	
Recorder	0.00	8356	Outside	4556.00	
Recorder	0.00	8962	Inside	4556.00	
Blank Off Sub	1.00			4557.00	
Top of Straddle Packer	3.00			4560.00	
Stubb	1.00			4561.00	
Change Over Sub	1.00			4562.00	
Recorder	0.00	8968	Below	4562.00	
Drill Pipe	408.00			4970.00	450.00 Bottom Packers & Anchor

**Total Tool Length: 470.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brito Oil Company

**18-19s-34w Scott,KS**

1223 N Rock Rd  
BLDG 1 STE 100  
Wichita KS 67206  
ATTN: Robert Hendrix

**Metzger #1-18**

Job Ticket: 64408

**DST#: 4**

Test Start: 2018.01.04 @ 18:28:00

## 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:

15000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.69 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mcw 7%m 93%w	0.590
124.00	w cm 30%w 70%m	1.739
82.00	mud 100%m	1.150

Total Length: 326.00 ft      Total Volume: 3.479 bbl

Num Fluid Samples: 0

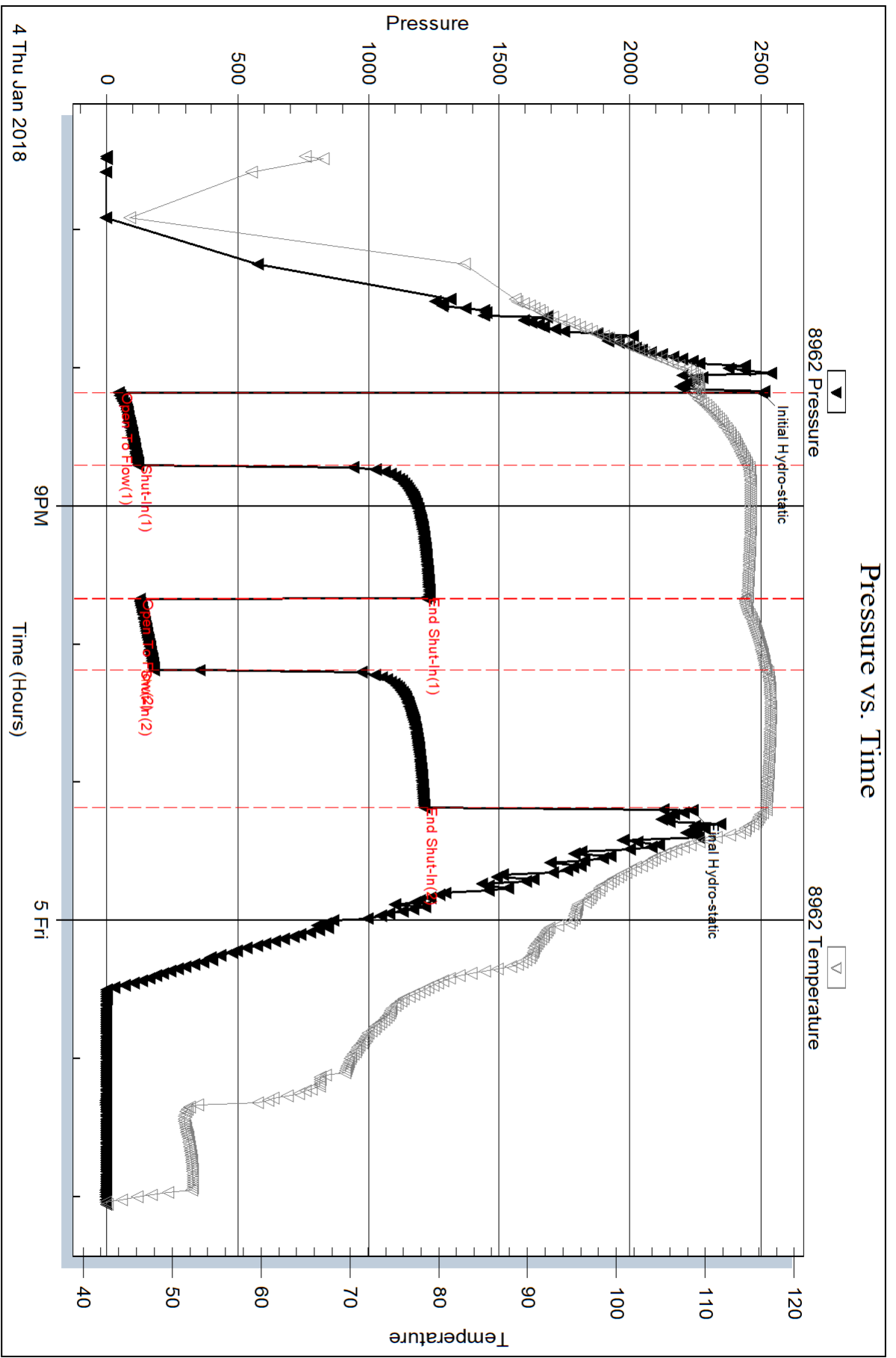
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .406@83.6= 15,000 ppm

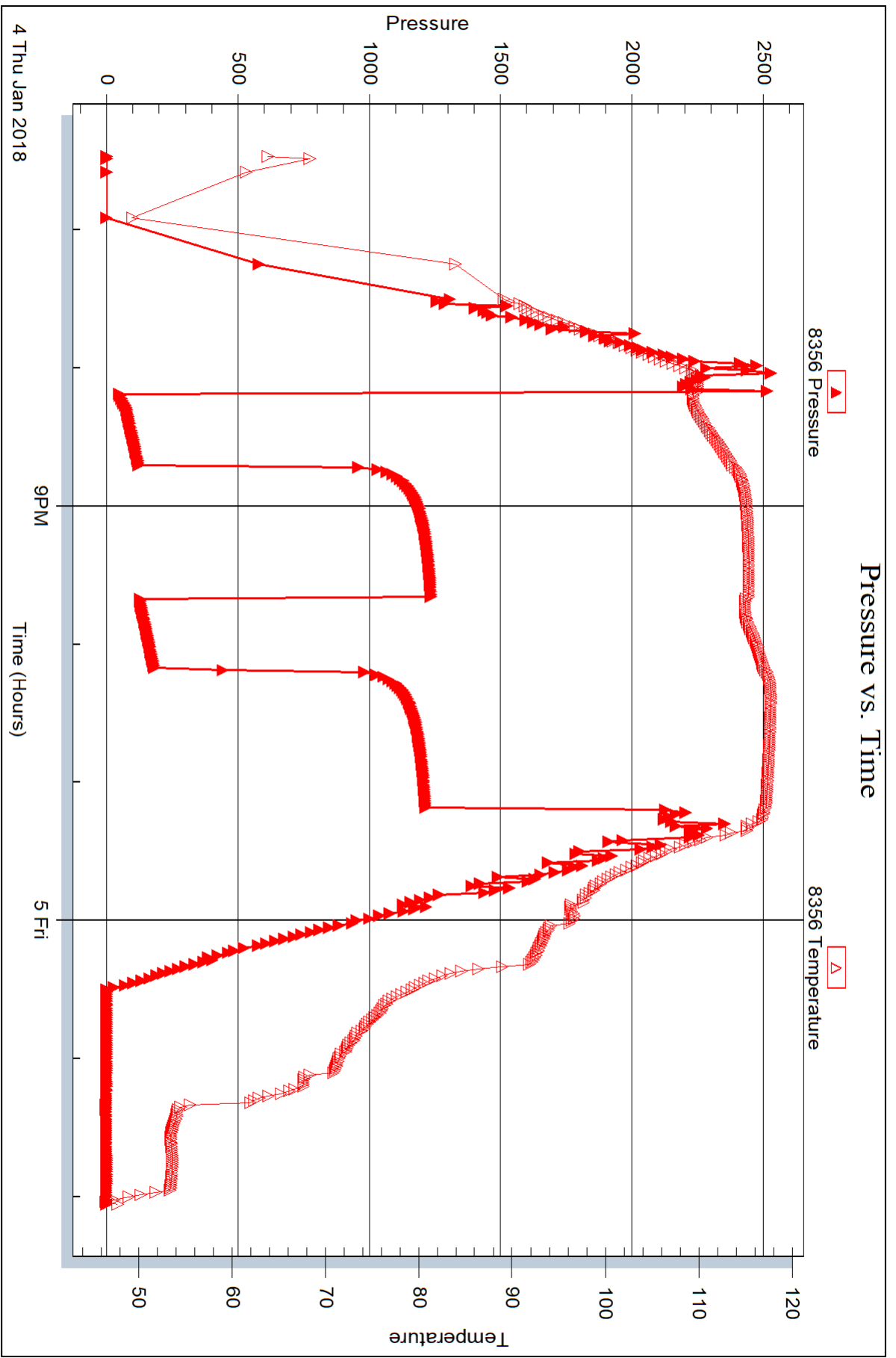


Serial #: 8356

Outside Brito Oil Company

Metzger #1-18

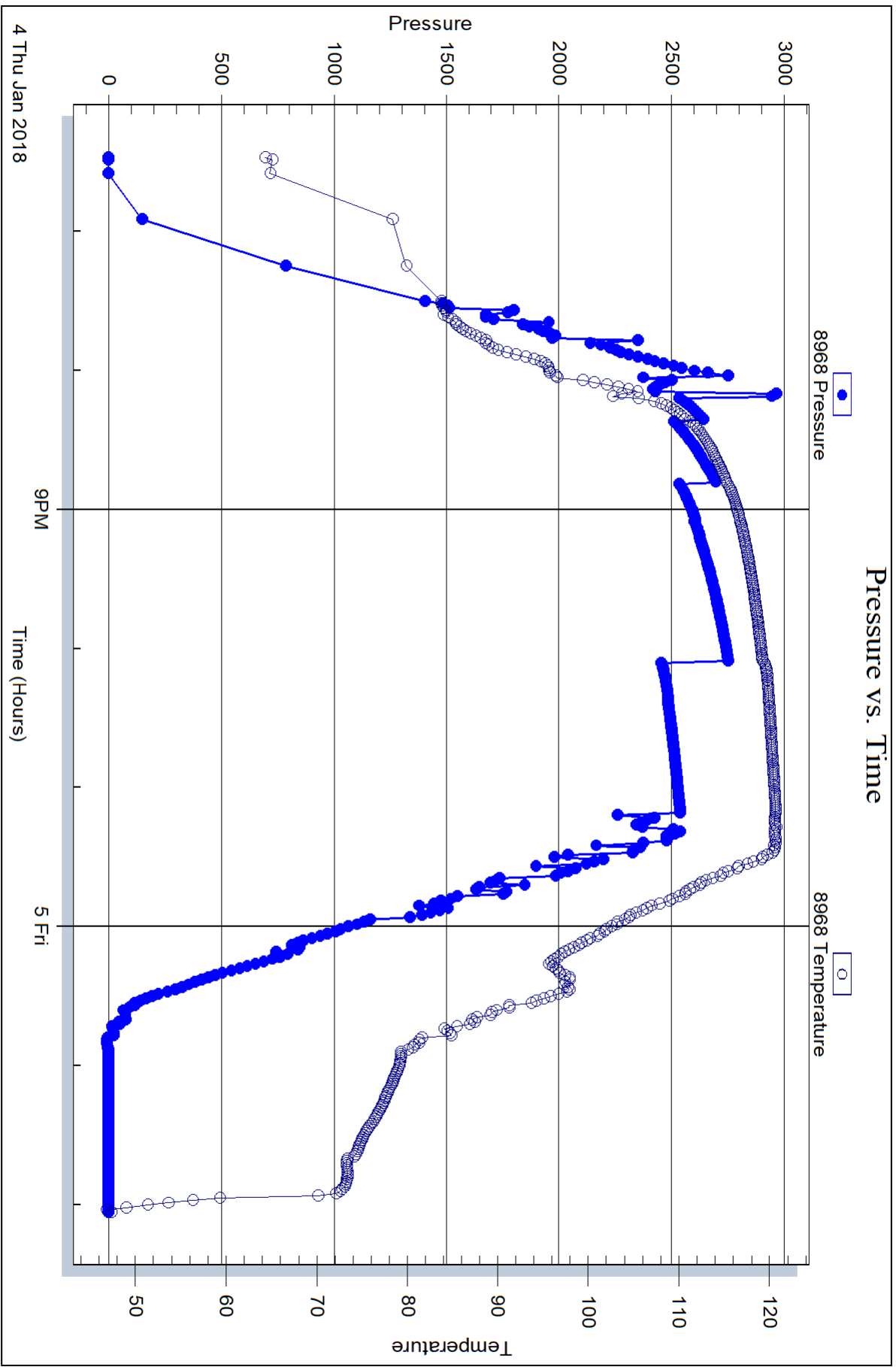
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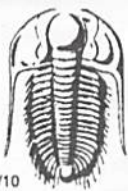


Trilobite Testing, Inc

Ref. No: 64408

Printed: 2018.01.05 @ 14:46:05





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64405**

Well Name & No. Mletzger 1-18 Test No. 1 Date 12-31-17  
 Company Br. To Oil Company Elevation 3132 KB 3127 GL  
 Address 1223 N. Rock Road BLDG 1 STE 100 Wichita KS 67206  
 Co. Rep / Geo. Robert Hendrix Rig WW10  
 Location: Sec. 18 Twp. 19 Rge. 34 Co. SCOTT State KS

Interval Tested 4331-4390 Zone Tested K  
 Anchor Length 59 Drill Pipe Run 4205 Mud Wt. 9.2  
 Top Packer Depth 4326 Drill Collars Run 120 Vis 51  
 Bottom Packer Depth 4331 Wt. Pipe Run 6 WL 8.8  
 Total Depth 4390 Chlorides 3200 ppm System LCM 2  
 Blow Description IF: Built to 5" Blow  
FS: No Return Blow  
FF: Built to 5" Blow  
FS: No Return Blow

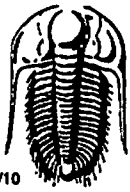
Rec	Feet of	%gas	%oil	%water	%mud
<u>244</u>	<u>Feet of <del>100</del> mud with oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 244 BHT 107 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2198  Test 1150 T-On Location 23:42  
 (B) First Initial Flow 30  Jars — T-Started 02:32  
 (C) First Final Flow 99  Safety Joint — T-Open 06:03  
 (D) Initial Shut-In 1078  Circ Sub NC T-Pulled 09:03  
 (E) Second Initial Flow 104  Hourly Standby — T-Out 10:56  
 (F) Second Final Flow 134  Mileage 38RT = #28.5% Comments —  
 (G) Final Shut-In 1044  Sampler —  
 (H) Final Hydrostatic 2221  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1178.50  
 Accessibility — MP/DST Disc't —  
 Sub Total 1178.50

Approved By R.H.D. [Signature] Our Representative Mike [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

64406

NO.

Well Name & No. Metzger 1-18 Test No. 2 Date 1-2-18  
 Company Brito Oil Company Elevation 3132 KB 3127 GL  
 Address 1223 N. Rock Rd BLDG 1 STE 100 Wichita KS 67206  
 Co. Rep / Geo. Robert Hendrix Rig WW10  
 Location: Sec. 18 Twp. 19 Rge 34 Co. SCOTT State KS

Interval Tested 4571-4610 Zone Tested Pawnee  
 Anchor Length 39 Drill Pipe Run 4461 Mud Wt. 9.1  
 Top Packer Depth 4556 Drill Collars Run 120 Vis 65  
 Bottom Packer Depth ~~4556~~ 4571 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4610 Chlorides 5000 ppm System LCM 2  
 Blow Description IF: Built to 3/4" Blow  
IS: NO Return Blow  
FF: Built to 1/8" Blow  
FS: NO Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Feet of 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	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 105 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2309  Test 1150 T-On Location 11:06  
 (B) First Initial Flow 17  Jars — T-Started 12:08  
 (C) First Final Flow 26  Safety Joint — T-Open 13:59  
 (D) Initial Shut-In 1005  Circ Sub NL T-Pulled 15:59  
 (E) Second Initial Flow 28  Hourly Standby — T-Out 18:01  
 (F) Second Final Flow 35  Mileage 38RT = #28.9% Comments —  
 (G) Final Shut-In 959  Sampler —  
 (H) Final Hydrostatic 2362  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1178.50  
 Accessibility — MP/DST Disc't —  
 Sub Total 1178.50

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

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

64407

NO.

Well Name & No. Metzger 1-18 Test No. 3 Date 1-4-18  
 Company Brato Oil Company Elevation 3132 KB 3127 GL  
 Address 1223 N. Rock Rd. BLDG 1 STE 100 Wichita KS 67206  
 Co. Rep / Geo. Robert Hendrix Rig WW10  
 Location: Sec. 18 Twp. 19 Rge. 34 Co. SCOTT State KS

Interval Tested 4500-4550 <sup>4996-4554</sup> 4970 Zone Tested Altamont  
 Anchor Length 60 Drill Pipe Run 4370 Mud Wt. 9.5  
 Top Packer Depth 4495 Drill Collars Run 120 Vis 67  
 Bottom Packer Depth 4500 Wt. Pipe Run Ø WL 8.8  
 Total Depth 4970 Chlorides 6500 ppm System LCM 2

Blow Description IF:  
IS:  
FF: Packer failure  
FS:

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>MUP</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	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT 105 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2753  Test 950 T-On Location 12:46  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 13:34  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open 15:33  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub NC T-Pulled \_\_\_\_\_  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 18:04  
 (F) Second Final Flow \_\_\_\_\_  Mileage 30LT = \$28.50/- Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2571  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 225  
 Day Standby 1.5d 6.75h Total 1578.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1578.50

Initial Open Packer  
 Initial Shut-In Failure  
 Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative Mike Roberts

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64408**

Well Name & No. Metzger #1-18 Test No. 4 Date 1-4-18  
 Company Brito Oil Company Elevation 3132 KB 3127 GL  
 Address 1223 N. Rock Rd BLD 1 STE 100 Wichita KS 67206  
 Co. Rep / Geo. Robert Hendrix Rig WW10  
 Location: Sec. 18 Twp. 19 Rge. 34 Co. SLOTT State KS

Interval Tested 4520-4560 4970<sup>TD</sup> Zone Tested Pawnee  
 Anchor Length 40 Drill Pipe Run 4399 Mud Wt. 9.1  
 Top Packer Depth 4515 Drill Collars Run 120 Vis 65  
 Bottom Packer Depth 4520 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4970 Chlorides 5000 ppm System LCM 2  
 Blow Description IF: BOB in 25 Min  
IS: No Return Blow  
FF: BOB in 28 Min  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>82</u>	<u>MUD</u>			<u>100</u>	
<u>124</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>120</u>	<u>MCW</u>		<u>93</u>	<u>7</u>	

Rec Total \_\_\_\_\_ BHT 115  
 (A) Initial Hydrostatic 2502  
 (B) First Initial Flow 45  
 (C) First Final Flow 119  
 (D) Initial Shut-In 1217  
 (E) Second Initial Flow 125  
 (F) Second Final Flow 180  
 (G) Final Shut-In 1211  
 (H) Final Hydrostatic 2238

Gravity \_\_\_\_\_ API RW 406 @ 83.4° F Chlorides 15000 ppm  
 Test 1150  
 Jars \_\_\_\_\_  
 Safety Joint \_\_\_\_\_  
 Circ Sub NC  
 Hourly Standby \_\_\_\_\_  
 Mileage Stayed  
 Sampler \_\_\_\_\_  
 Straddle 600  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1750  
 T-On Location Stayed  
 T-Started 18:28  
 T-Open 20:11  
 T-Pulled 23:11  
 T-Out 02:03  
 Comments \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1750  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 60

Approved By Rhd Whj Our Representative Mike Roberts

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# Robert D. Hendrix

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY **Brito Oil Company**

LEASE **Metzger #1-18**

FIELD **Midcat**

LOCATION **14781st & 1304th**

SEC **18** TWP **19S** RGE **34W**

COUNTY **Scott** STATE **Kansas**

CONTRACTOR **RWW Drilling Rig #10**

RTD **12/14/2017** COMP **15/2018**

RWD UP **3500** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3700** TO **TD**

DRILLING TIME KEPT FROM **3700** TO **TD**

SAMPLES EXAMINED FROM **3700** TO **TD**

GEOLOGICAL SUPERVISION FROM **3660**

GEOLOGIST ON WELL **Robert D. Hendrix**

INDUCTION COMPENSATED POROSITY  
MICROTON PREMIER WIRELINE

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Amhydrite 2344 (-788)

Hebner Shale 3980 (-843)

Lansing 4024 (-892)

BKC 4436 (-1304)

Marmaton 4490 (-1358)

Morrow Shale 4797 (-1665)

Mississippian 4849 (-1717)

ELEVATIONS

KB **3132**

DF

GL **3127**

Measurements Are All From **Kelly Bushing**

CASING

CONDUCTOR

DIAMETER **8.625" at 301'**

PRODUCTION

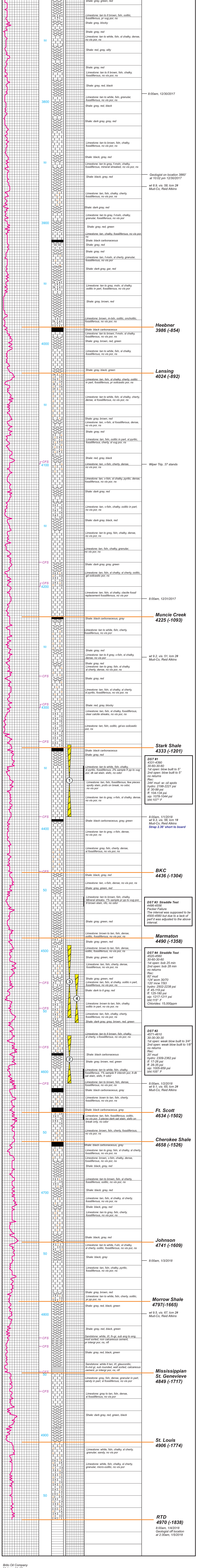
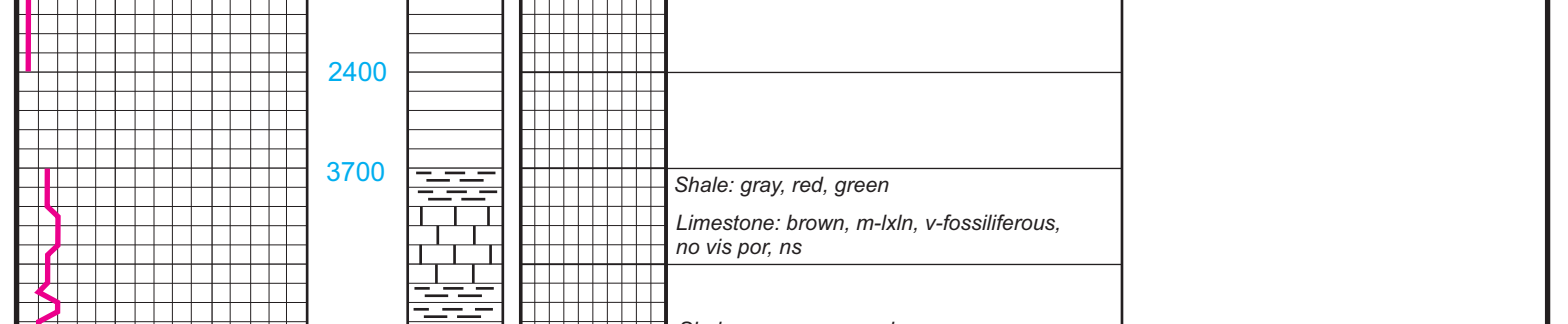
none

ELECTRICAL SURVEYS

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Amhydrite	2344 (-788)	2351 (-781)
Hebner Shale	3980 (-843)	3986 (-854)
Lansing	4024 (-892)	4024 (-892)
BKC	4436 (-1304)	4436 (-1304)
Marmaton	4490 (-1358)	4490 (-1358)
Morrow Shale	4797 (-1665)	4797 (-1665)
Mississippian	4849 (-1717)	4849 (-1717)

REMARKS: The drilling/spudded started 12/14/2017 surface casing was set and then shut down for Christmas. Drilling resumed 12/27/2017. All shows were tested as well as a log indicated one. All Drill Stem Tests yielded negative results. Therefore the decision was made to plug the hole.

### LEGEND





TREATMENT REPORT



HURRICANE SERVICES INC

Customer:	Brito Oil Co., INC	Date:	12/14/2017	Ticket No.:	50186
Field Rep:	Mark				
Address:					
City, State:					
County, Zip:					

Field Order No.:		Open Hole:	301' 12.25"	Perf Depths (ft)	Perfs
Well Name:	Metzger 1-18	Casing Depth:	301'		
Location:	Modoc, Ks	Casing Size:	8.625" 24#		
Formation:		Tubing Depth:			
Type of Service:	Surface	Tubing Size:			
Well Type:	Oil	Liner Depth:			
Age of Well:	New	Liner Size:			
Packer Type:		Liner Top:			
Packer Depth:		Liner Bottom:			
Treatment Via:	Casing	Total Depth:			
				Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
5:30 PM					On location safety meeting			
					Spot in and rig up			
					Wait on rig			
8:30 PM			400.0		Break circulation			4.00
			120.0		Pump freshwater spacer			5.00
			150.0		Mix and pump cement			53.07
			120.0		Displace and wash up			1.00
			120.0		Continue displacement			
					Stop			18.00
			100.0		Shut in well			
					Release pressure			
9:15 PM					Rig down and leave location			
					Thanks---Jake, Kevin, and Josh			
					Circulated 5 bbl cement to the pit			
TOTAL:								81.07

**SUMMARY**

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
-	#DIV/0!	400.0	168.3

**PRODUCTS USED**

160 sacks class a with 2% gel and 3% cc .25 lb sk phenoseal

Treater: Jake Heard

Customer: Mark