

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	BEREXCO LLC
Well Name	TEMPLING 7
Doc ID	1444806

All Electric Logs Run

Microlog
Porosity
Resistivity
Sonic



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone: 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box: 32 Russell, KS 67665

No. **1188**

Date: <b>2-1-19</b>	Sec. <b>11</b>	Twp. <b>16</b>	Range <b>14</b>	County <b>Barton</b>	State <b>KS</b>	On Location <b>WT</b>	Finish <b>WT</b>
Lease: <b>Templin</b>				Well No. <b>17</b>			
Contractor: <b>Royal #2</b>							
Type Job: <b>Surface</b>							
Location: <b>Russell + Barton C.L., 25 to 210 Rd.</b>							
Owner: <b>QIE, 1/4 ON, Wk Inta</b>							

To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To: **Berexco**, LLC.

Hole Size: **12 1/4"** T.D. **855'**

Csg. **8 5/8"** Depth **855'**

Tbg. Size Depth

Tool Depth

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. **25'** Shoe Joint **25'**

Meas Line Displace **52 3/4 Bu**

Cement Amount Ordered **275** **65/35** **3% CC** **1/4 # Flo Seal**

Meas Line **200** **Com** **3% CC** **2% Gel**

**EQUIPMENT**

Pumptrk No. <b>20</b>	Cementer <b>David</b>	#/14 <b>Dave</b>
Bulktrk No. <b>21</b>	Driver <b>Doug</b>	
Bulktrk No. <b>22</b>	Driver <b>Rick</b>	

**JOB SERVICES & REMARKS**

Remarks: **Cement did Circulate**

Rat Hole

Mouse Hole

Centralizers

Baskets

D/Y or Port Collar

Flowseal <b>75#</b>	
Kol-Seal	
Mud CLR <b>48</b>	
CFL-117 or CD110 CAF <b>38</b>	
Sand	
Handling <b>496</b>	
Mileage	
<del>Centralizer</del> <b>Rubber plug</b>	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge <b>Long Service</b>	
Mileage <b>20</b>	

**Signature** *[Signature]*

**Tax**

**Discount**

**Total Charge**



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65089 **DST#: 1**  
 Test Start: 2019.02.05 @ 10:00:00

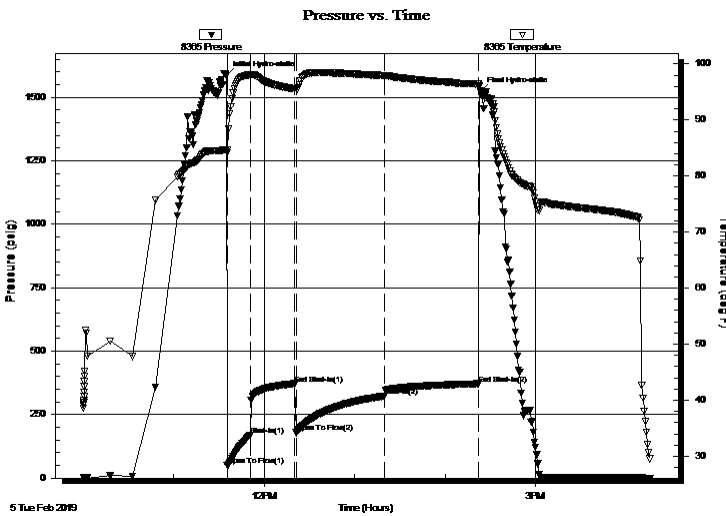
## GENERAL INFORMATION:

Formation: **Lansing zone B & C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:35:17  
 Time Test Ended: 16:16:02  
 Interval: **3154.00 ft (KB) To 3190.00 ft (KB) (TVD)**  
 Total Depth: 3190.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/ 52  
 Reference Elevations: 1941.00 ft (KB)  
 1934.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8365 Inside**  
 Press@RunDepth: 323.93 psig @ 3155.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.05 End Date: 2019.02.05 Last Calib.: 2019.02.05  
 Start Time: 10:00:01 End Time: 16:16:02 Time On Btm: 2019.02.05 @ 11:34:47  
 Time Off Btm: 2019.02.05 @ 14:23:32

**TEST COMMENT:** IF 15 Minutes/ Blow built to BOB in 4 1/2 minutes  
 ISI 30 Minutes/ 1/2 inch blow back  
 FF 60 Minutes/ Blow built to BOB in 5 1/2 minutes  
 FSI 60 Minutes/ 1/2 inch blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.81	84.75	Initial Hydro-static
1	50.55	84.17	Open To Flow (1)
16	169.12	98.09	Shut-In(1)
46	371.85	95.54	End Shut-In(1)
47	178.85	95.57	Open To Flow (2)
105	323.93	97.92	Shut-In(2)
168	372.00	96.38	End Shut-In(2)
169	1524.05	95.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	Muddy Water/ M 25% W 75%	3.48
372.00	Muddy Water/ M 10% W 90%	5.22
0.00	Oil spots in tool	0.00

## Gas Rates

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



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# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65089 **DST#: 1**  
 Test Start: 2019.02.05 @ 10:00:00

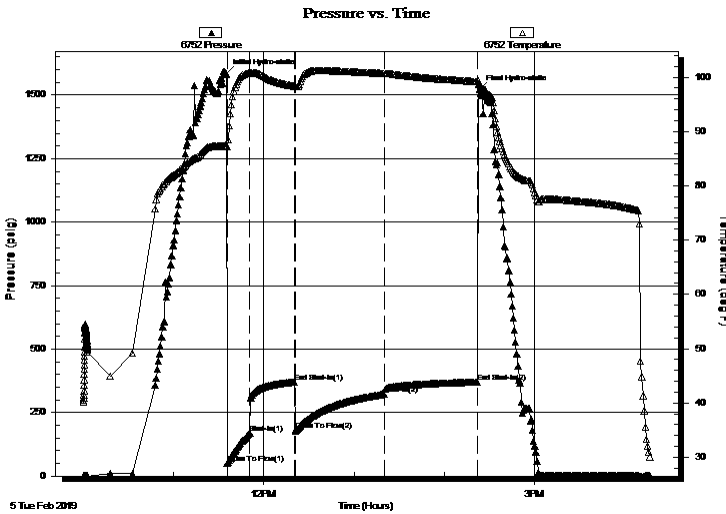
## GENERAL INFORMATION:

Formation: **Lansing zone B & C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:35:17  
 Time Test Ended: 16:16:02  
 Interval: **3154.00 ft (KB) To 3190.00 ft (KB) (TVD)**  
 Total Depth: 3190.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/ 52  
 Reference Elevations: 1941.00 ft (KB)  
 1934.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 6752 Outside**  
 Press@RunDepth: 370.80 psig @ 3156.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.05 End Date: 2019.02.05 Last Calib.: 2019.02.05  
 Start Time: 10:00:01 End Time: 16:17:02 Time On Btm: 2019.02.05 @ 11:34:47  
 Time Off Btm: 2019.02.05 @ 14:23:32

**TEST COMMENT:** IF 15 Minutes/ Blow built to BOB in 4 1/2 minutes  
 ISI 30 Minutes/ 1/2 inch blow back  
 FF 60 Minutes/ Blow built to BOB in 5 1/2 minutes  
 FSI 60 Minutes/ 1/2 inch blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1583.14	87.38	Initial Hydro-static
1	49.62	87.18	Open To Flow (1)
16	168.80	100.81	Shut-In(1)
46	370.42	98.37	End Shut-In(1)
47	178.75	98.34	Open To Flow (2)
106	322.95	100.69	Shut-In(2)
168	370.80	99.24	End Shut-In(2)
169	1521.61	98.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	Muddy Water/ M 25% W 75%	3.48
372.00	Muddy Water/ M 10% W 90%	5.22
0.00	Oil spots in tool	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brexco LLC  
2020 N Bramblewood  
Wichita, Kansas 67206+1094  
ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
Job Ticket: 65089      **DST#: 1**  
Test Start: 2019.02.05 @ 10:00:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	60000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	Muddy Water/ M 25% W 75%	3.479
372.00	Muddy Water/ M 10% W 90%	5.218
0.00	Oil spots in tool	0.000

Total Length: 620.00 ft      Total Volume: 8.697 bbl

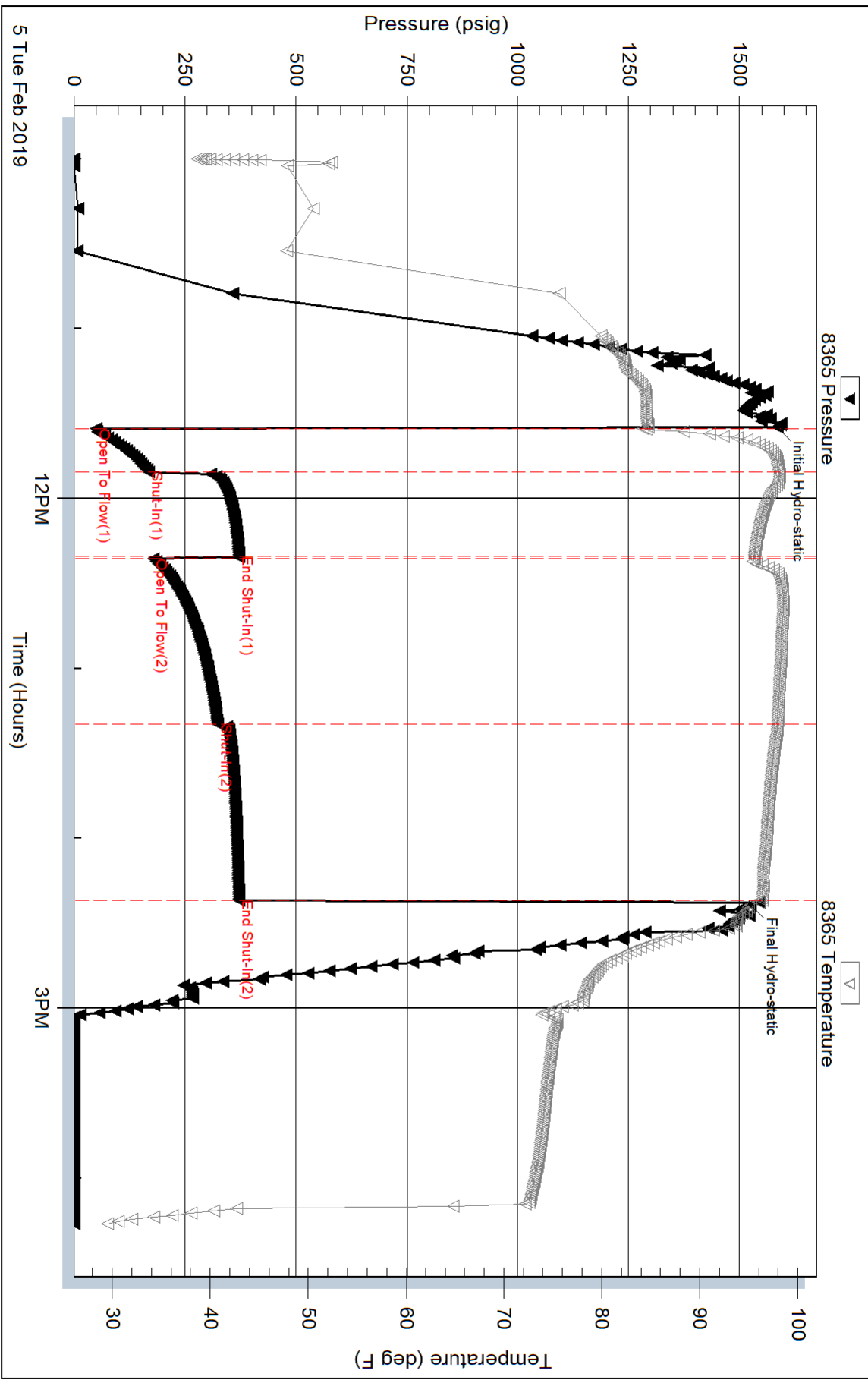
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

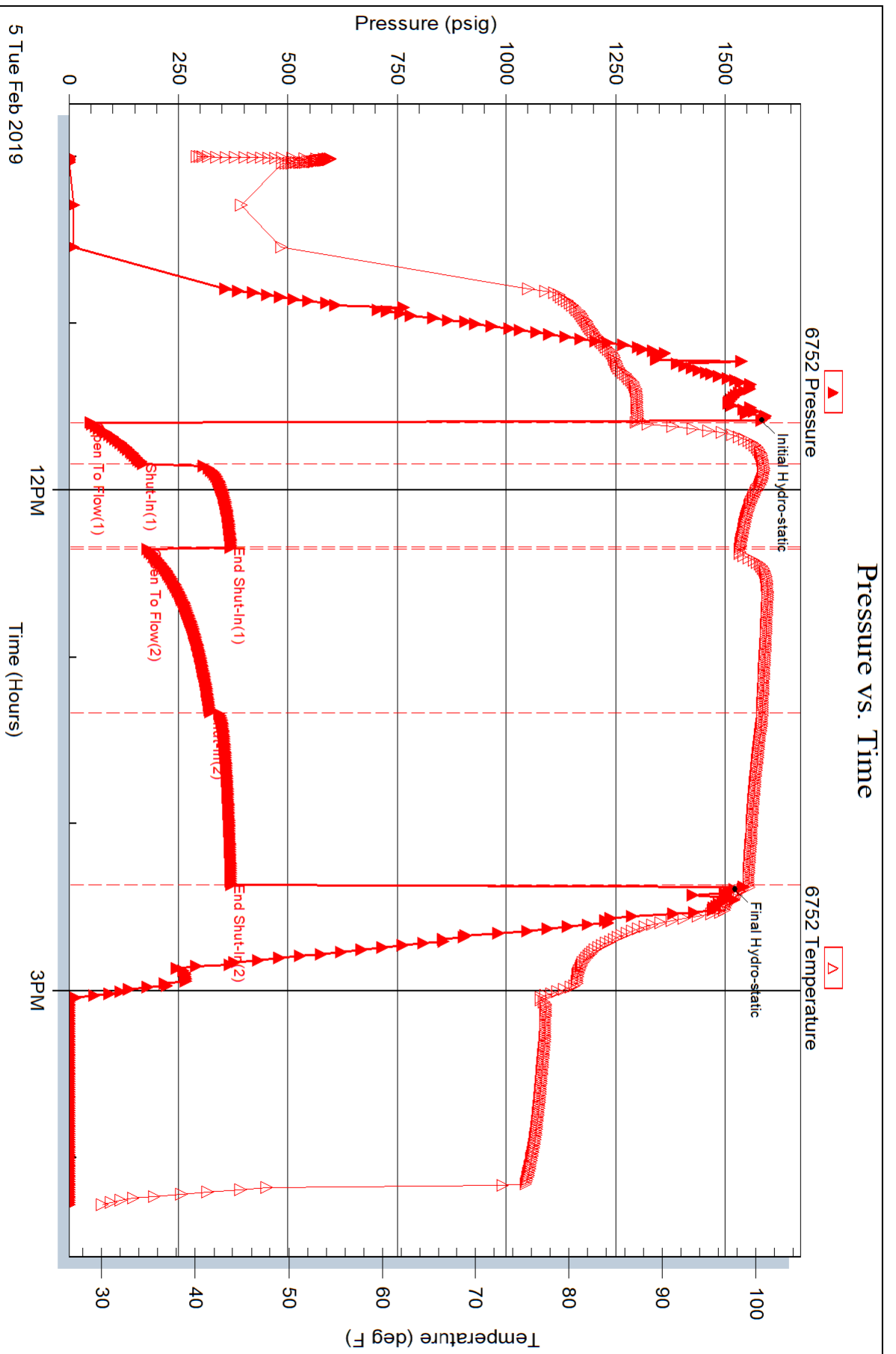
Laboratory Name:      Laboratory Location:

Recovery Comments: Recovery Resistivity .240 ohms @ 36 deg.



# Pressure vs. Time







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

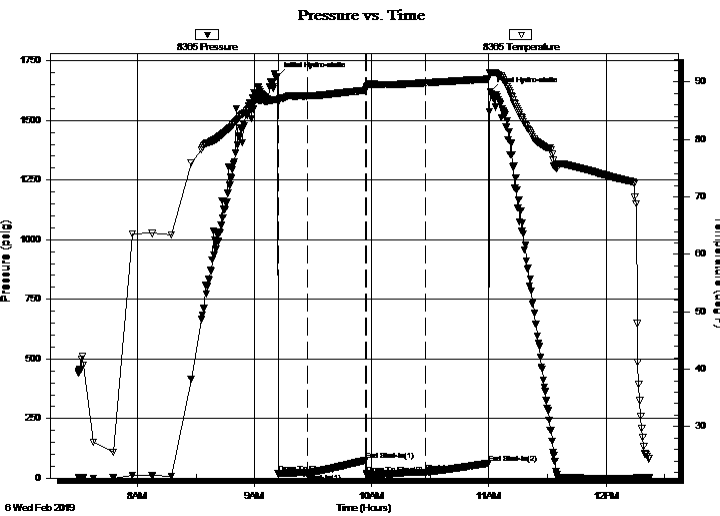
**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65090 **DST#: 2**  
 Test Start: 2019.02.06 @ 07:30:00

## GENERAL INFORMATION:

Formation: **Kansas City zone H &**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:12:02  
 Time Test Ended: 12:22:17  
 Interval: **3285.00 ft (KB) To 3327.00 ft (KB) (TVD)**  
 Total Depth: 3327.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/52  
 Reference Elevations: 1941.00 ft (KB)  
 1934.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8365** **Inside**  
 Press@RunDepth: 23.48 psig @ 3286.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.06 End Date: 2019.02.06 Last Calib.: 2019.02.06  
 Start Time: 07:30:01 End Time: 12:22:17 Time On Btm: 2019.02.06 @ 09:11:47  
 Time Off Btm: 2019.02.06 @ 11:00:47

TEST COMMENT: IF 15 Minutes/ Blow built to 3 1/2 inches  
 ISI 30 Mintues/ No blow back  
 FF 30 Minutes/ Blow built to 5 1/2 inches  
 FSI 30 Minutes/ No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.98	86.99	Initial Hydro-static
1	18.63	86.45	Open To Flow (1)
16	19.90	87.59	Shut-In(1)
45	74.79	88.60	End Shut-In(1)
46	14.70	89.19	Open To Flow (2)
76	23.48	89.87	Shut-In(2)
108	63.12	90.56	End Shut-In(2)
109	1620.39	91.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Oil cut Mud/ O 5% M 95%	0.35

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
2020 N Bramblewood  
Wichita, Kansas 67206+1094  
ATTN: Jerry Smith

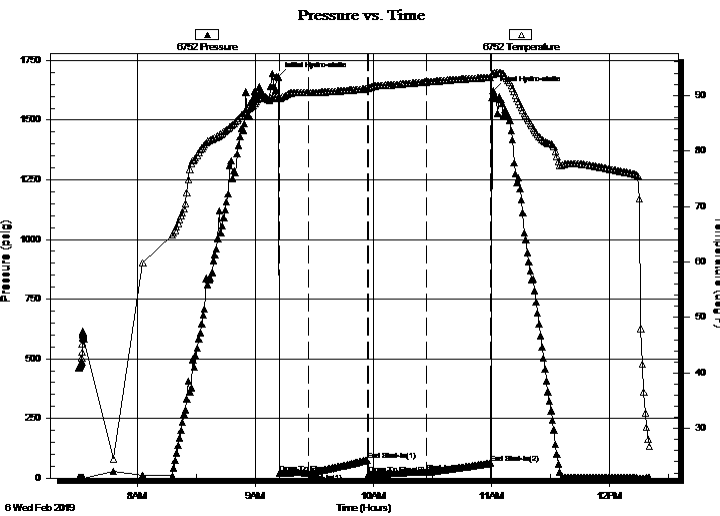
**11/16S/14W/Barton**  
**Templing #7**  
Job Ticket: 65090 **DST#: 2**  
Test Start: 2019.02.06 @ 07:30:00

## GENERAL INFORMATION:

Formation: **Kansas City zone H &**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:12:02  
Time Test Ended: 12:22:17  
Interval: **3285.00 ft (KB) To 3327.00 ft (KB) (TVD)**  
Total Depth: 3327.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ken Swinney  
Unit No: 72 Great Bend/52  
Reference Elevations: 1941.00 ft (KB)  
1934.00 ft (CF)  
KB to GR/CF: 7.00 ft

**Serial #: 6752 Outside**  
Press@RunDepth: 63.87 psig @ 3287.00 ft (KB) Capacity: psig  
Start Date: 2019.02.06 End Date: 2019.02.06 Last Calib.: 2019.02.06  
Start Time: 07:30:01 End Time: 12:21:02 Time On Btm: 2019.02.06 @ 09:11:32  
Time Off Btm: 2019.02.06 @ 11:00:47

TEST COMMENT: IF 15 Minutes/ Blow built to 3 1/2 inches  
ISI 30 Mintues/ No blow back  
FF 30 Minutes/ Blow built to 5 1/2 inches  
FSI 30 Minutes/ No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.12	89.66	Initial Hydro-static
1	19.38	89.46	Open To Flow (1)
16	21.02	90.47	Shut-In(1)
46	75.50	91.19	End Shut-In(1)
46	15.45	91.27	Open To Flow (2)
76	24.09	92.40	Shut-In(2)
109	63.87	93.25	End Shut-In(2)
110	1623.05	93.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Oil cut Mud/ O 5% M 95%	0.35

## Gas Rates

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



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TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brexco LLC  
2020 N Bramblewood  
Wichita, Kansas 67206+1094  
ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
Job Ticket: 65090      **DST#: 2**  
Test Start: 2019.02.06 @ 07:30:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

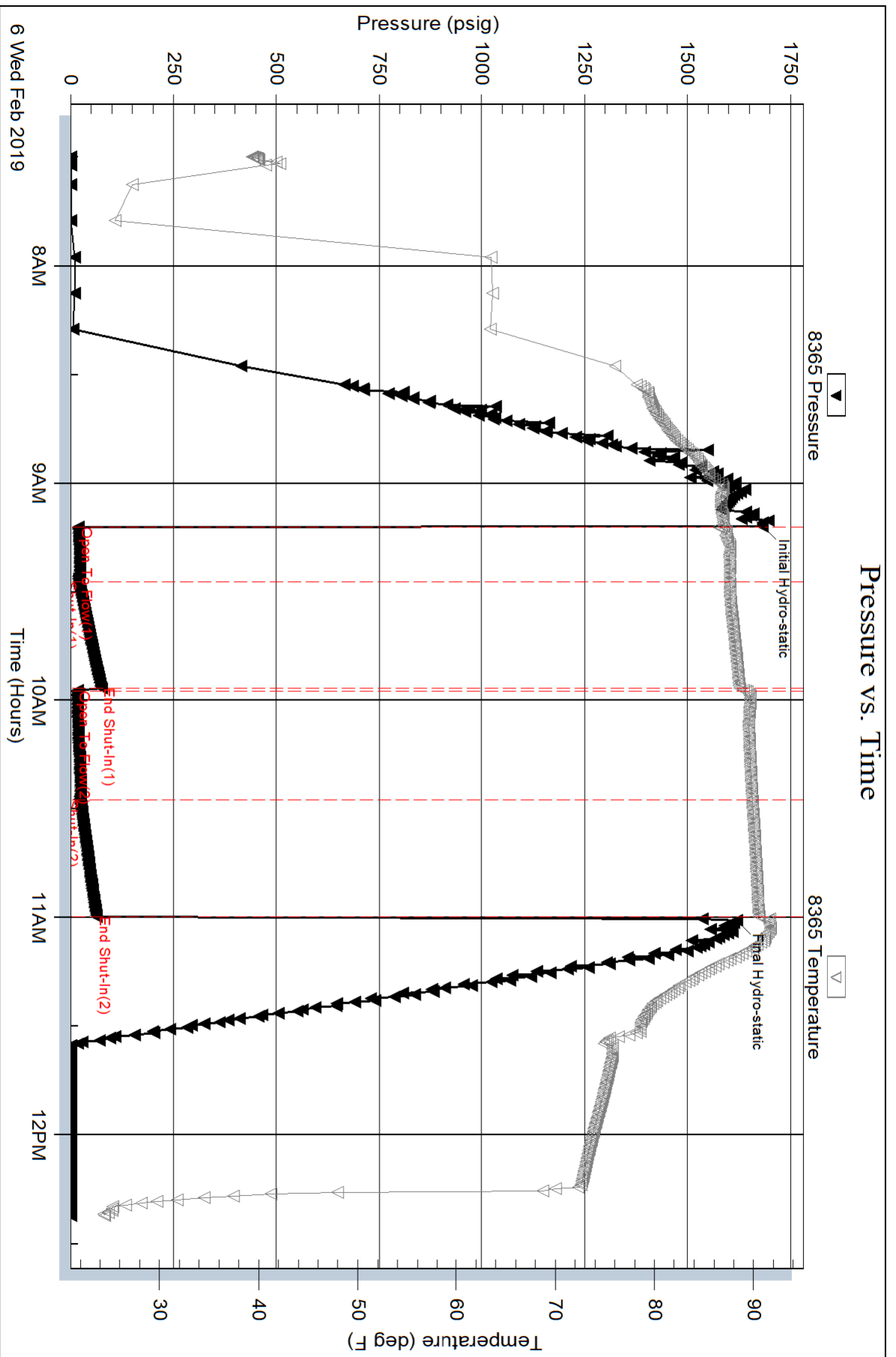
Length ft	Description	Volume bbl
25.00	Oil cut Mud/ O 5% M 95%	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl

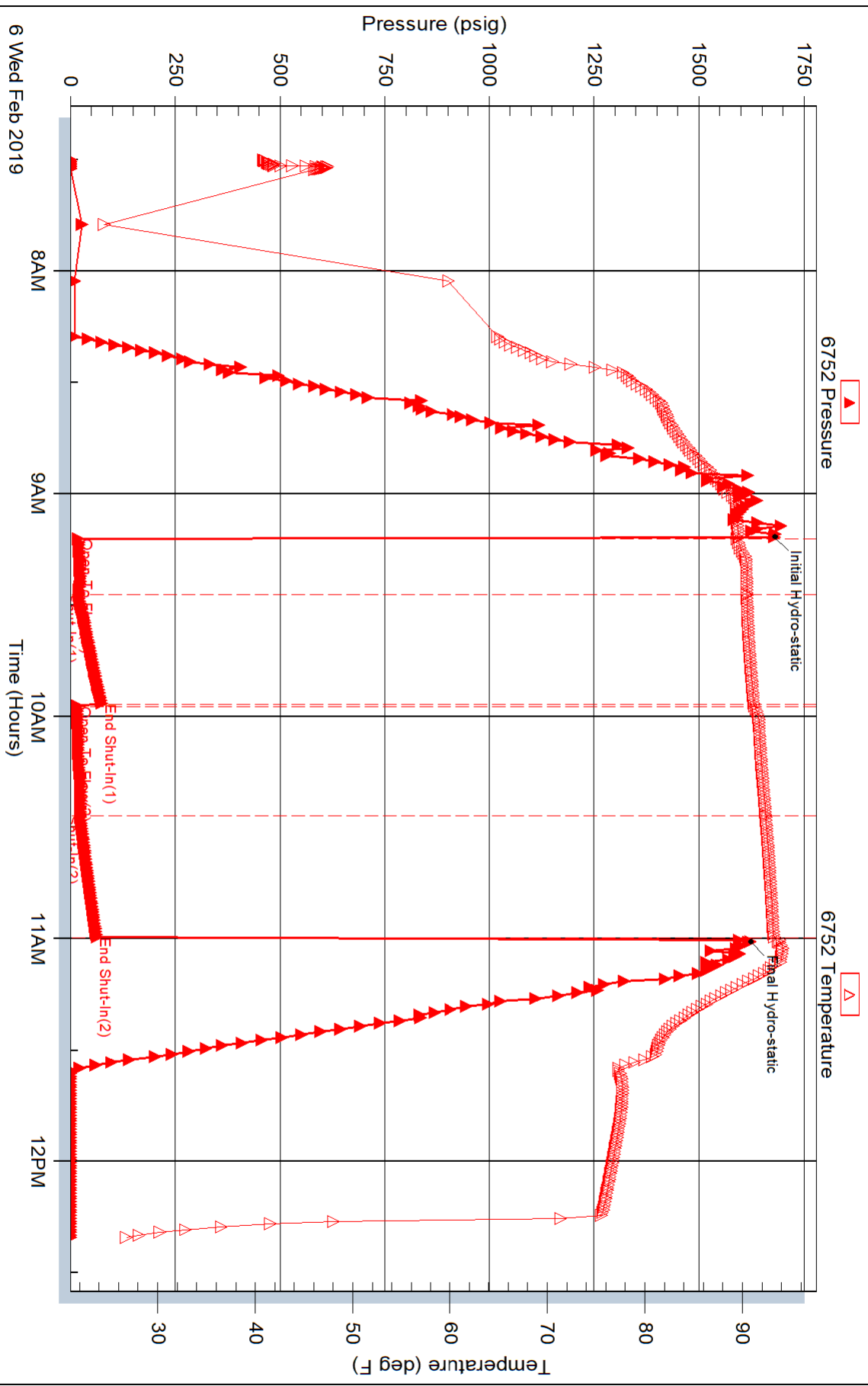
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:



### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65091 **DST#: 3**  
 Test Start: 2019.02.06 @ 17:48:00

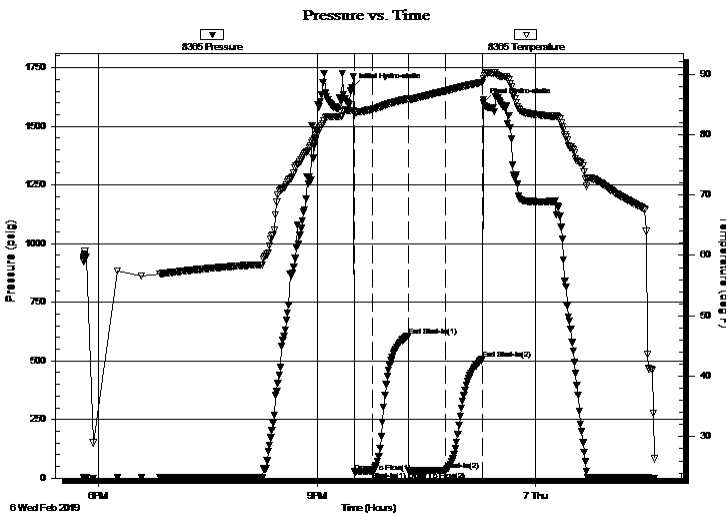
## GENERAL INFORMATION:

Formation: **Kansas City zone J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:30:32  
 Time Test Ended: 01:38:02  
 Interval: **3330.00 ft (KB) To 3340.00 ft (KB) (TVD)**  
 Total Depth: 3340.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/ 52  
 Reference Elevations: 1941.00 ft (KB)  
 1934.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8365** **Inside**  
 Press@RunDepth: 33.20 psig @ 3331.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.06 End Date: 2019.02.07 Last Calib.: 2019.02.07  
 Start Time: 17:48:01 End Time: 01:38:02 Time On Btm: 2019.02.06 @ 21:28:47  
 Time Off Btm: 2019.02.06 @ 23:17:02

**TEST COMMENT:** IF 15 Minutes/ Blow built to 1 1/4 inch  
 ISI 30 Minutes/ No blow back  
 FF 30 Minutes/ Blow built to 1/4 inch  
 FSI 30 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1666.05	83.94	Initial Hydro-static
2	26.61	83.59	Open To Flow (1)
17	29.13	84.18	Shut-In(1)
47	607.12	85.88	End Shut-In(1)
47	30.83	85.77	Open To Flow (2)
77	33.20	87.21	Shut-In(2)
108	507.24	88.65	End Shut-In(2)
109	1600.86	89.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Light oil spot mud/ Mud 100%	0.42

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65091 **DST#: 3**  
 Test Start: 2019.02.06 @ 17:48:00

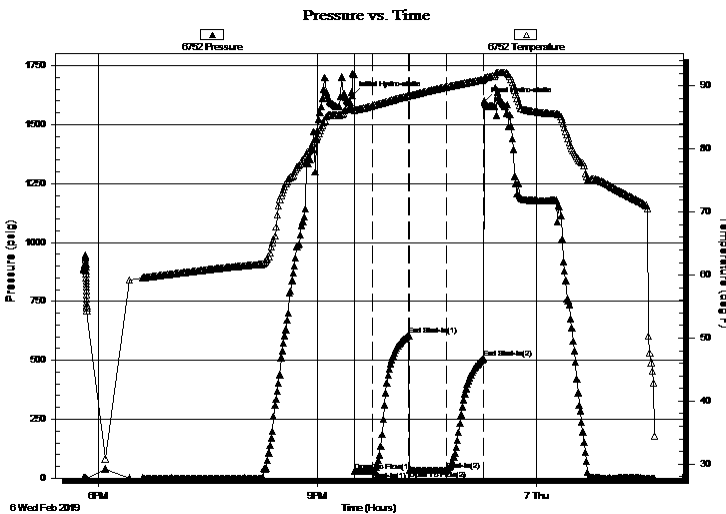
## GENERAL INFORMATION:

Formation: **Kansas City zone J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:30:32  
 Time Test Ended: 01:38:02  
 Interval: **3330.00 ft (KB) To 3340.00 ft (KB) (TVD)**  
 Total Depth: 3340.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/ 52  
 Reference Elevations: 1941.00 ft (KB)  
 1934.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 6752 Outside**  
 Press@RunDepth: 508.20 psig @ 3332.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.06 End Date: 2019.02.07 Last Calib.: 2019.02.07  
 Start Time: 17:48:01 End Time: 01:37:02 Time On Btm: 2019.02.06 @ 21:28:47  
 Time Off Btm: 2019.02.06 @ 23:17:17

TEST COMMENT: IF 15 Minutes/ Blow built to 1 1/4 inch  
 ISI 30 Minutes/ No blow back  
 FF 30 Minutes/ Blow built to 1/4 inch  
 FSI 30 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.90	86.28	Initial Hydro-static
2	27.57	86.15	Open To Flow (1)
17	30.02	86.88	Shut-In(1)
47	605.55	88.45	End Shut-In(1)
47	31.78	88.46	Open To Flow (2)
77	33.57	89.85	Shut-In(2)
108	508.20	91.05	End Shut-In(2)
109	1595.70	91.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Light oil spot mud/ Mud 100%	0.42

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brexco LLC  
2020 N Bramblewood  
Wichita, Kansas 67206+1094  
ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
Job Ticket: 65091      **DST#: 3**  
Test Start: 2019.02.06 @ 17:48:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

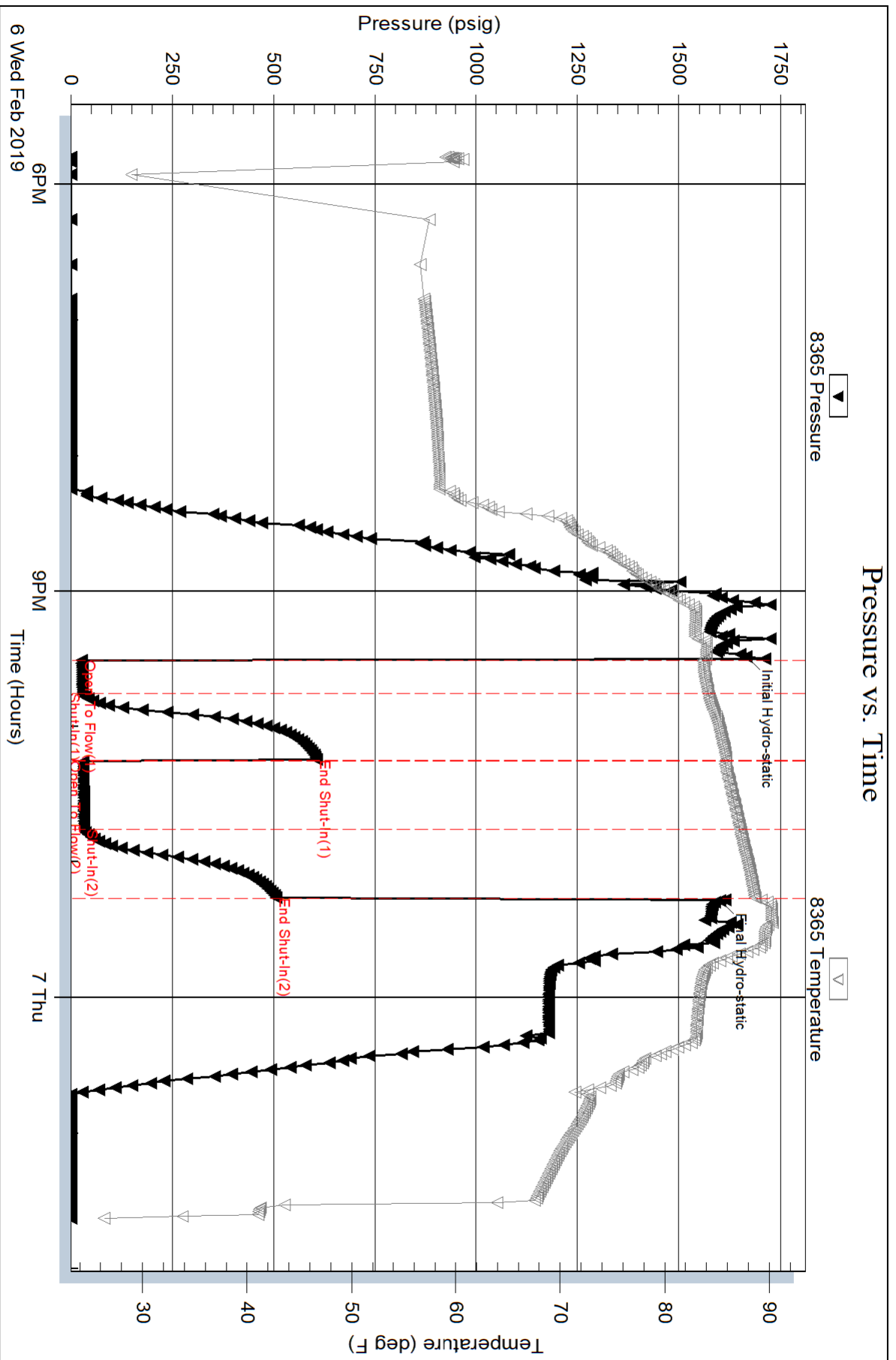
Length ft	Description	Volume bbl
30.00	Light oil spot mud/ Mud 100%	0.421

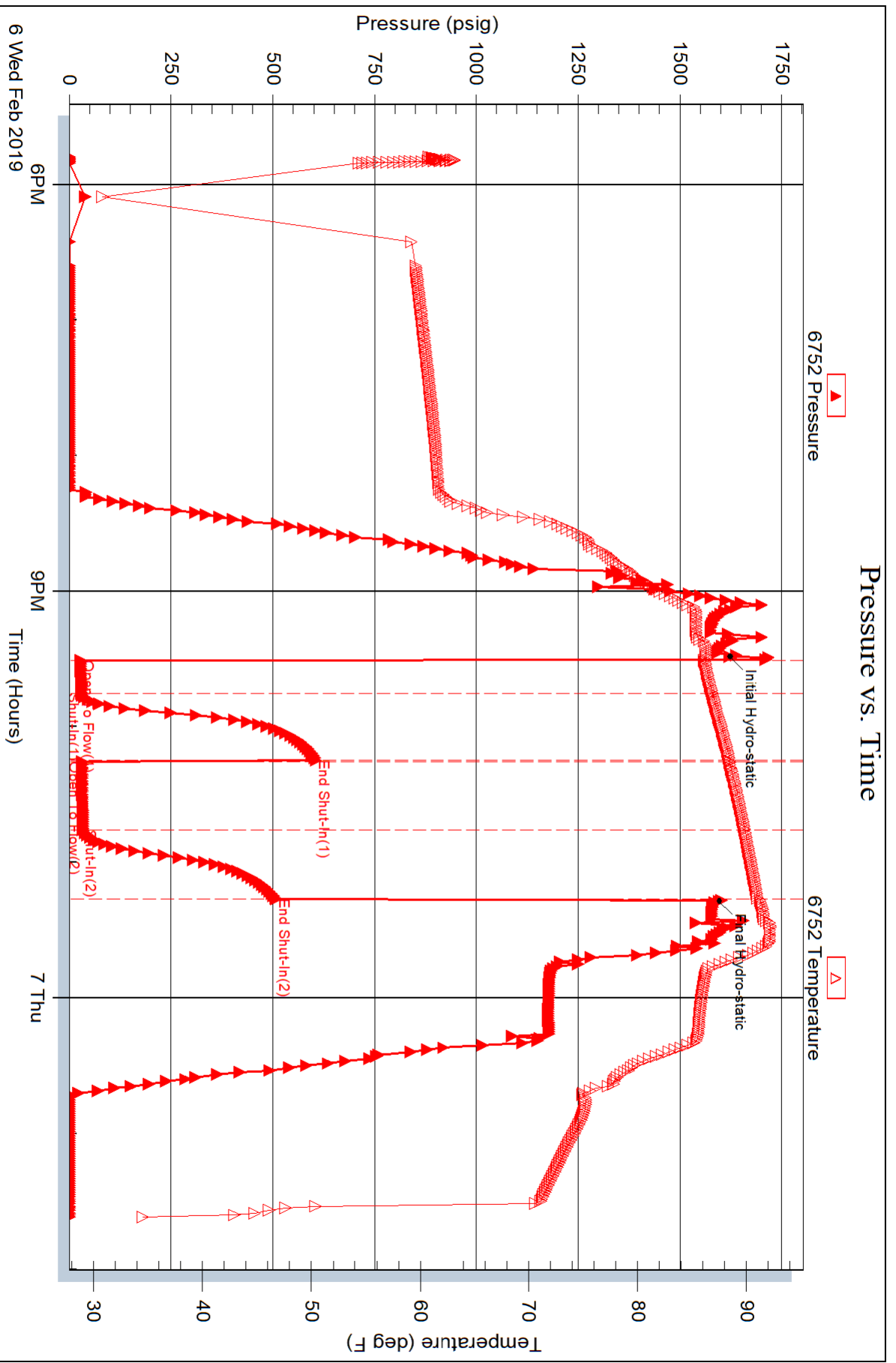
Total Length: 30.00 ft      Total Volume: 0.421 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

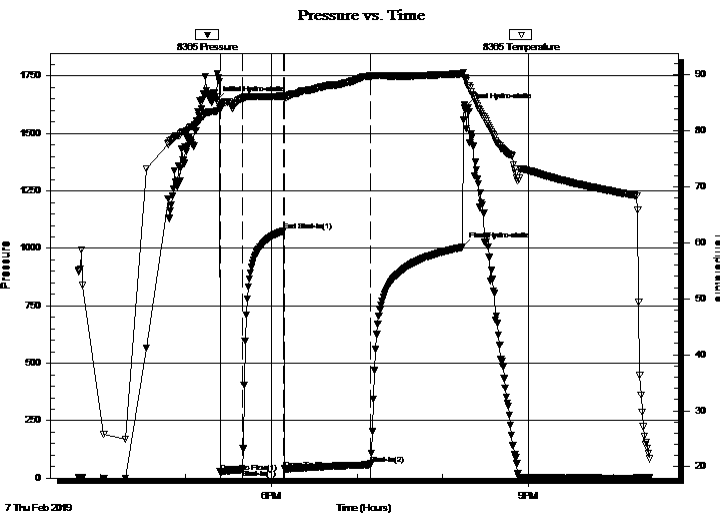
**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65092 **DST#: 4**  
 Test Start: 2019.02.07 @ 15:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:24:02  
 Time Test Ended: 22:25:02  
 Interval: **3359.00 ft (KB) To 3409.00 ft (KB) (TVD)**  
 Total Depth: 3409.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/ 52  
 Reference Elevations: 1941.00 ft (KB)  
 1934.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8365 Inside**  
 Press@RunDepth: 36.07 psig @ 3360.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.07 End Date: 2019.02.07 Last Calib.: 2019.02.07  
 Start Time: 15:45:01 End Time: 22:25:02 Time On Btm: 2019.02.07 @ 17:21:32  
 Time Off Btm: 2019.02.07 @ 20:13:47

TEST COMMENT: IF 15 Minutes/ Blow built to 4 inches  
 ISI 30 Minutes/ No blow back  
 FF 60 Minutes/ Blow built to 8 inches  
 FSI 60 Minutes/ No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.95	83.53	Initial Hydro-static
3	27.03	83.83	Open To Flow (1)
18	36.07	85.75	Shut-In(1)
48	1076.52	86.20	End Shut-In(1)
48	40.34	85.88	Open To Flow (2)
108	58.72	89.76	Shut-In(2)
173	1005.01	90.17	Final Hydro-static
174	1613.33	89.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Clean Oil	0.04
90.00	Oil cut Mud/O 5% M 95%	1.26

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65092 **DST#: 4**  
 Test Start: 2019.02.07 @ 15:45:00

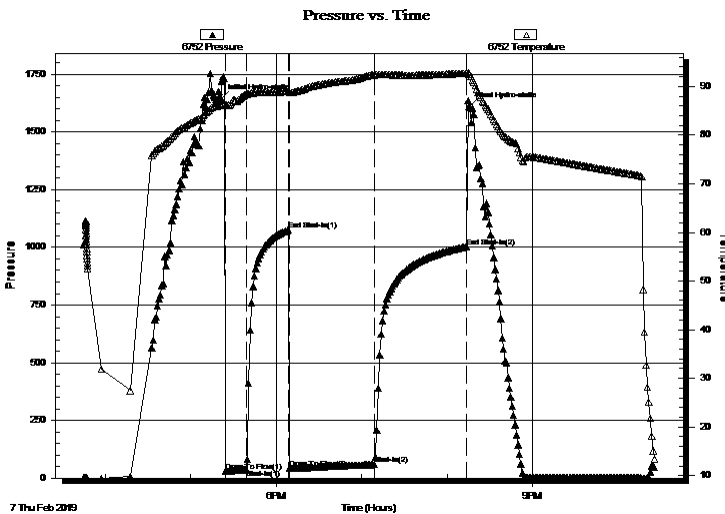
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 17:24:02 Tester: Ken Swinney  
 Time Test Ended: 22:25:02 Unit No: 72 Great Bend/ 52  
 Interval: **3359.00 ft (KB) To 3409.00 ft (KB) (TVD)** Reference Elevations: 1941.00 ft (KB)  
 Total Depth: 3409.00 ft (KB) (TVD) 1934.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

**Serial #: 6752 Outside**  
 Press@RunDepth: 1003.72 psig @ 3361.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.07 End Date: 2019.02.07 Last Calib.: 2019.02.07  
 Start Time: 15:45:01 End Time: 22:26:02 Time On Btm: 2019.02.07 @ 17:21:32  
 Time Off Btm: 2019.02.07 @ 20:15:32

**TEST COMMENT:** IF 15 Minutes/ Blow built to 4 inches  
 ISI 30 Minutes/ No blow back  
 FF 60 Minutes/ Blow built to 8 inches  
 FSI 60 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.65	86.25	Initial Hydro-static
3	27.95	86.16	Open To Flow (1)
18	36.86	88.38	Shut-In(1)
48	1075.28	88.95	End Shut-In(1)
48	41.28	88.85	Open To Flow (2)
108	59.37	92.38	Shut-In(2)
173	1003.72	92.73	End Shut-In(2)
174	1611.56	92.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Clean Oil	0.04
90.00	Oil cut Mud/O 5% M 95%	1.26

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brexco LLC  
2020 N Bramblewood  
Wichita, Kansas 67206+1094  
ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
Job Ticket: 65092      **DST#: 4**  
Test Start: 2019.02.07 @ 15:45:00

## Mud and Cushion Information

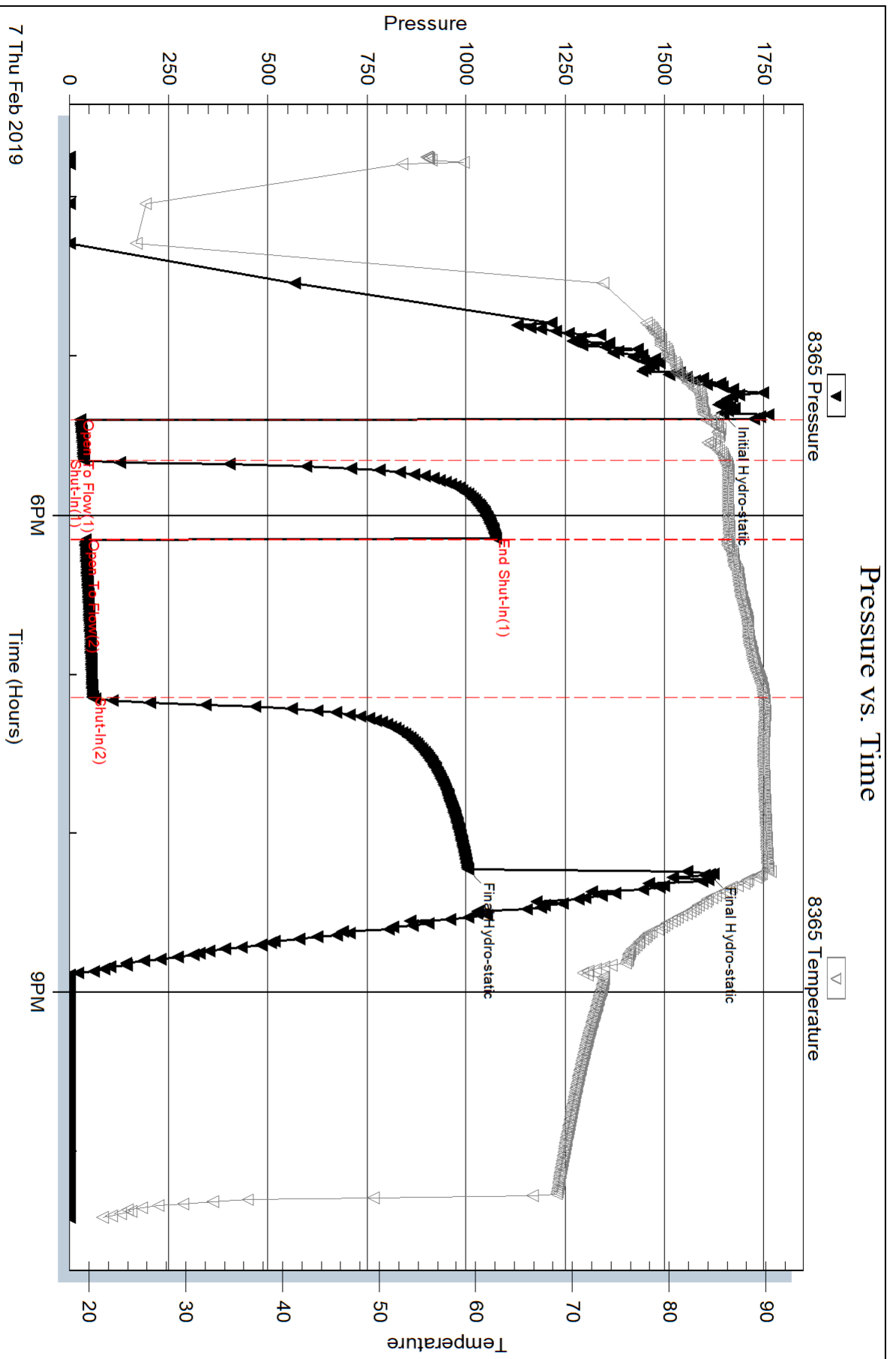
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

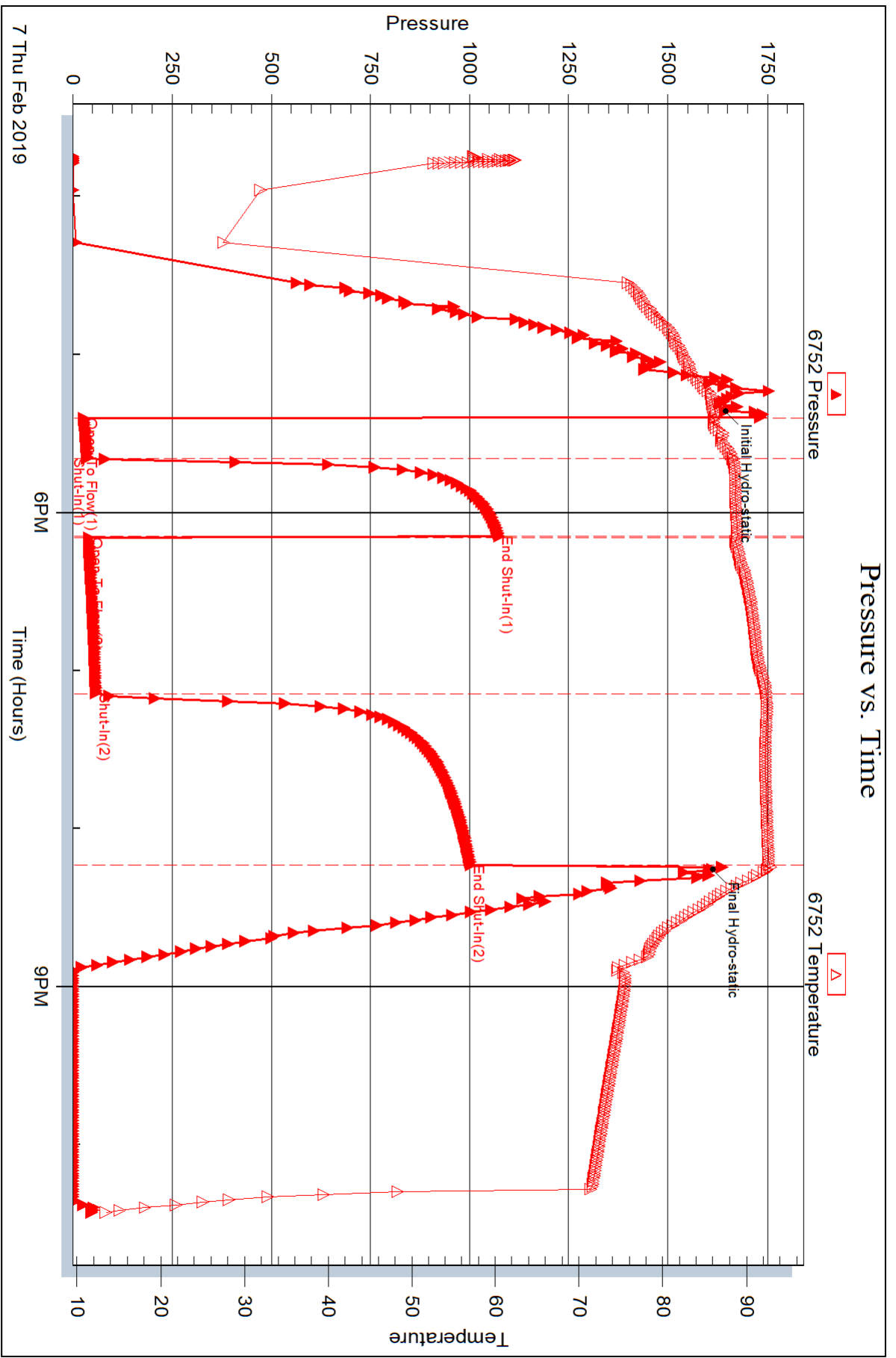
Recovery Table

Length ft	Description	Volume bbl
3.00	Clean Oil	0.042
90.00	Oil cut Mud/O 5% M 95%	1.262

Total Length: 93.00 ft      Total Volume: 1.304 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

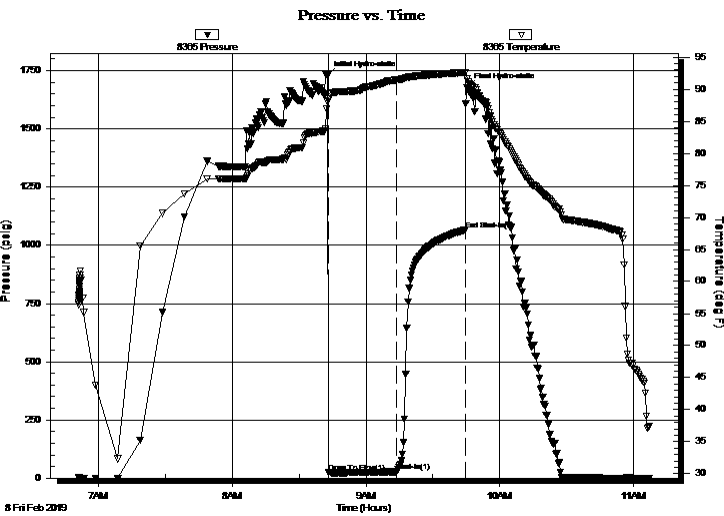
**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65093 **DST#: 5**  
 Test Start: 2019.02.08 @ 06:51:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:43:17  
 Time Test Ended: 11:07:17  
 Interval: **3406.00 ft (KB) To 3414.00 ft (KB) (TVD)**  
 Total Depth: 3414.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/ 52  
 Reference Elevations: 1941.00 ft (KB)  
 1934.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8365 Inside**  
 Press@RunDepth: 27.53 psig @ 3407.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.08 End Date: 2019.02.08 Last Calib.: 2019.02.08  
 Start Time: 06:51:01 End Time: 11:07:17 Time On Btm: 2019.02.08 @ 08:42:32  
 Time Off Btm: 2019.02.08 @ 09:45:17

TEST COMMENT: IF 30 Minutes/ Blow built to 3 inches  
 ISI 30 Minutes/ No blow back  
 Pull test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.00	88.02	Initial Hydro-static
1	24.43	88.47	Open To Flow (1)
31	27.53	91.47	Shut-In(1)
62	1066.57	92.60	End Shut-In(1)
63	1676.85	91.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil cut W W/ O 5% W 25% M 70%	0.42

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

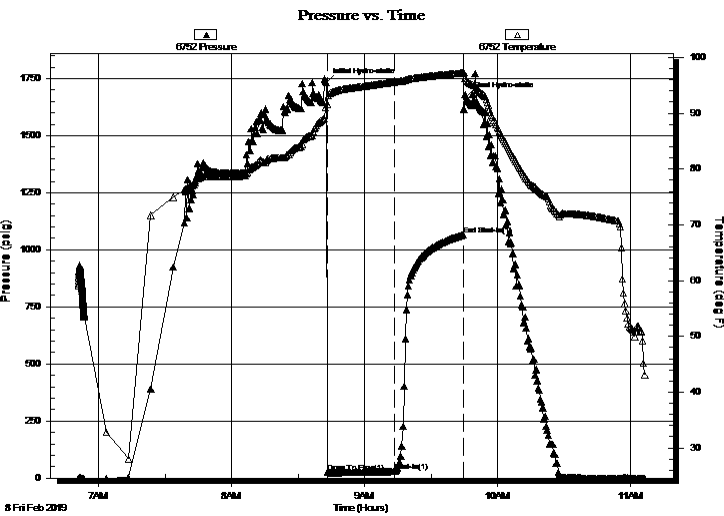
**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65093 **DST#: 5**  
 Test Start: 2019.02.08 @ 06:51:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:43:17  
 Time Test Ended: 11:07:17  
 Interval: **3406.00 ft (KB) To 3414.00 ft (KB) (TVD)**  
 Total Depth: 3414.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/ 52  
 Reference Elevations: 1941.00 ft (KB)  
 1934.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 6752 Outside**  
 Press@RunDepth: 1065.45 psig @ 3408.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.08 End Date: 2019.02.08 Last Calib.: 2019.02.08  
 Start Time: 06:51:01 End Time: 11:06:17 Time On Btm: 2019.02.08 @ 08:42:47  
 Time Off Btm: 2019.02.08 @ 09:45:47

TEST COMMENT: IF 30 Minutes/ Blow built to 3 inches  
 ISI 30 Minutes/ No blow back  
 Pull test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1733.74	92.10	Initial Hydro-static
1	25.62	91.65	Open To Flow (1)
31	28.88	95.62	Shut-In(1)
62	1065.45	97.21	End Shut-In(1)
63	1670.57	95.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil cut W W/ O 5% W 25% M 70%	0.42

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Brexco LLC  
2020 N Bramblewood  
Wichita, Kansas 67206+1094  
ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
Job Ticket: 65093      **DST#: 5**  
Test Start: 2019.02.08 @ 06:51:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	20000 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7500.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

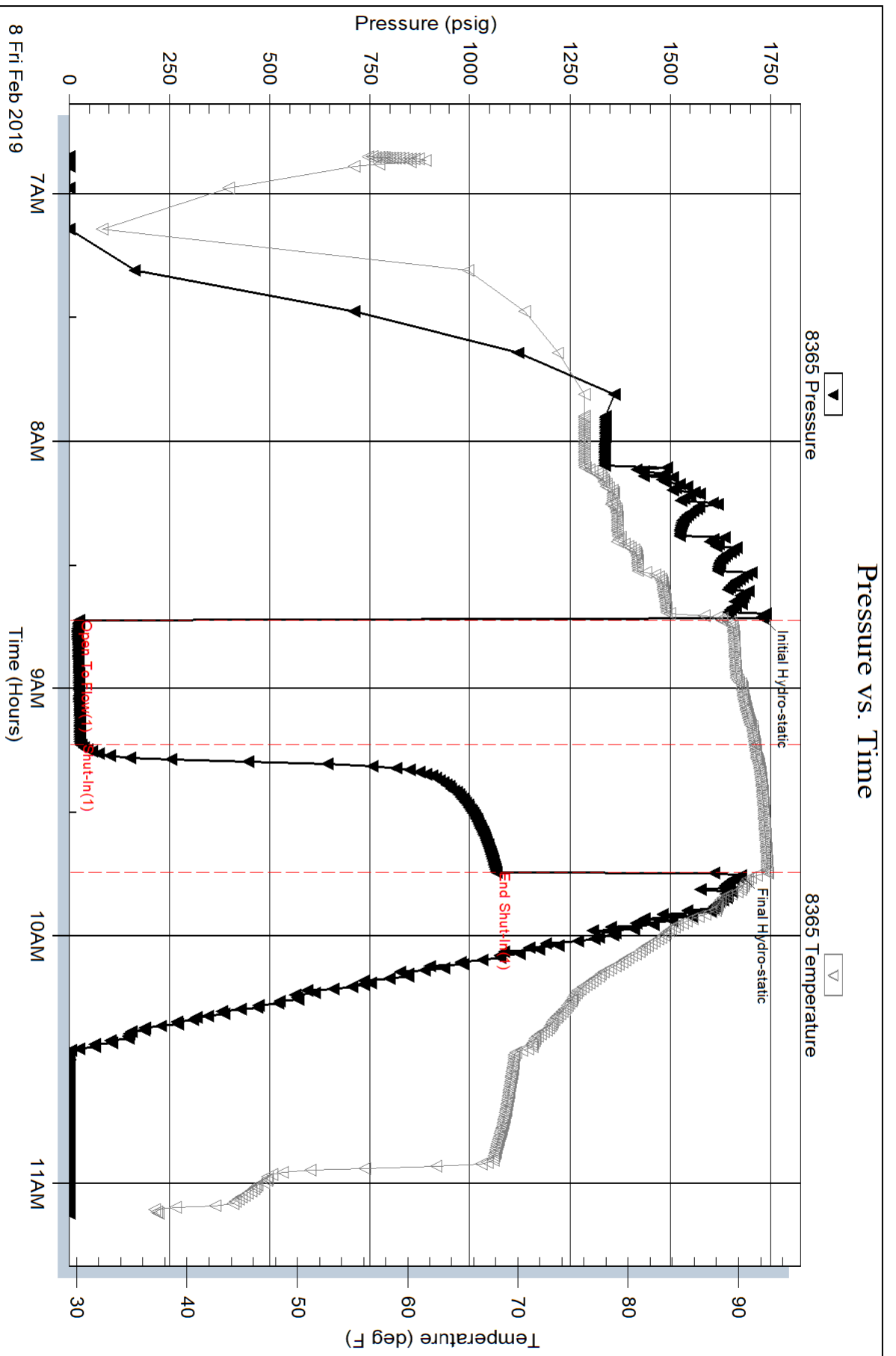
Length ft	Description	Volume bbl
30.00	Oil cut W W O 5% W 25% M 70%	0.421

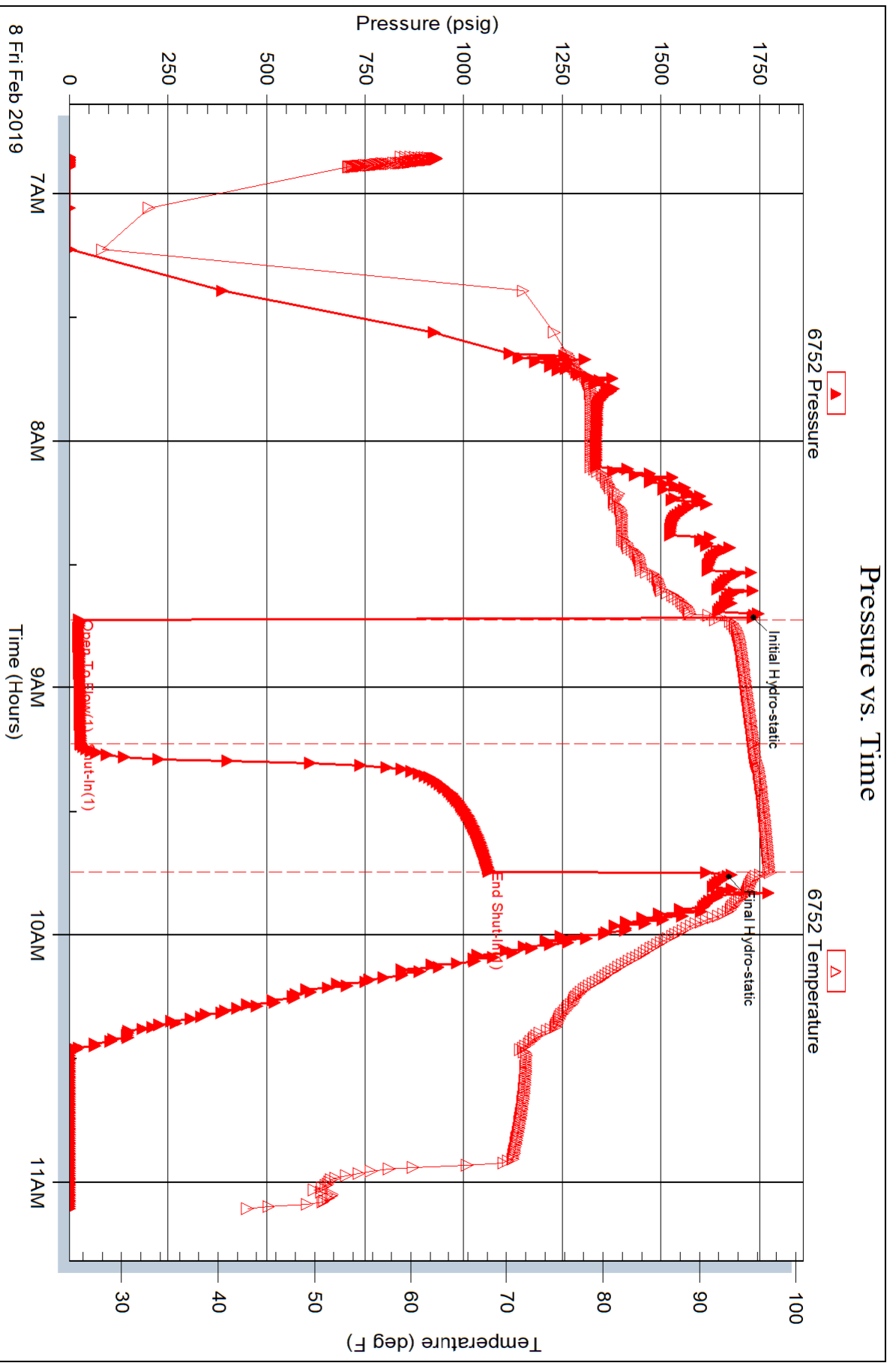
Total Length: 30.00 ft      Total Volume: 0.421 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Recovery Resistivity .637 ohms @ 37 deg.







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

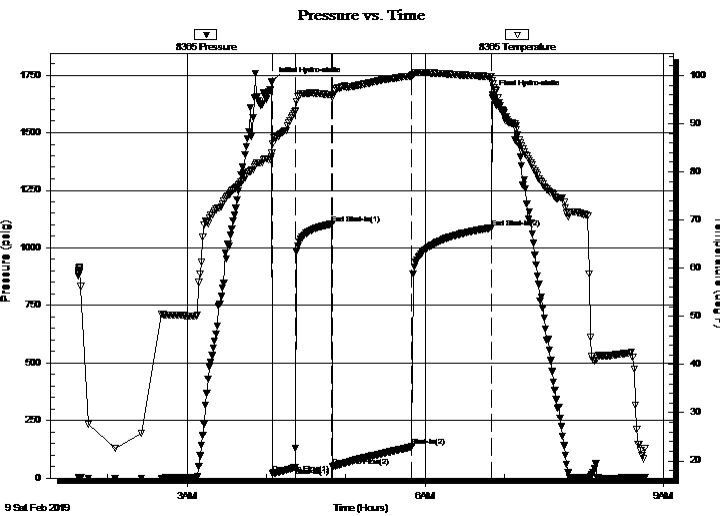
**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65094 **DST#: 6**  
 Test Start: 2019.02.09 @ 01:38:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:04:47  
 Time Test Ended: 08:46:02  
 Interval: **3414.00 ft (KB) To 3424.00 ft (KB) (TVD)**  
 Total Depth: 3424.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/ 52  
 Reference Elevations: 1941.00 ft (KB)  
 1934.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8365** **Inside**  
 Press@RunDepth: 136.79 psig @ 3415.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.09 End Date: 2019.02.09 Last Calib.: 2019.02.09  
 Start Time: 01:38:01 End Time: 08:46:02 Time On Btm: 2019.02.09 @ 04:04:02  
 Time Off Btm: 2019.02.09 @ 06:51:02

**TEST COMMENT:** IF 15 Minutes/ Blow built to 8 1/2 inches  
 ISI 30 Minutes/ No blow back  
 FF 60 Minutes/ Blow to BOB in 28 minutes  
 FSI 60 Minutes/ No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.20	83.91	Initial Hydro-static
1	21.84	85.86	Open To Flow (1)
18	46.76	92.56	Shut-In(1)
46	1102.99	95.97	End Shut-In(1)
46	50.07	95.48	Open To Flow (2)
106	136.79	99.87	Shut-In(2)
166	1086.93	99.79	End Shut-In(2)
167	1663.75	98.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
271.00	Muddy Water skim oil/ M 10% W 90%	3.80

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brexco LLC  
 2020 N Bramblewood  
 Wichita, Kansas 67206+1094  
 ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
 Job Ticket: 65094 **DST#: 6**  
 Test Start: 2019.02.09 @ 01:38:00

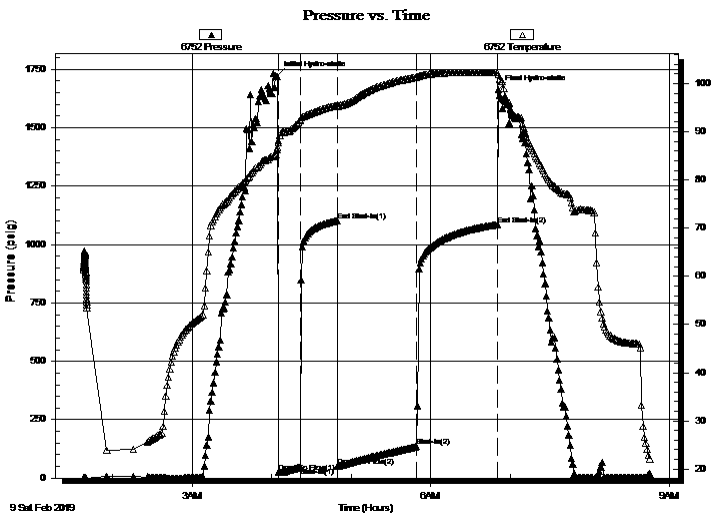
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:04:47  
 Time Test Ended: 08:46:02  
 Interval: **3414.00 ft (KB) To 3424.00 ft (KB) (TVD)**  
 Total Depth: 3424.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Great Bend/ 52  
 Reference Elevations: 1941.00 ft (KB)  
 1934.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 6752 Outside**  
 Press@RunDepth: 1085.74 psig @ 3416.00 ft (KB) Capacity: psig  
 Start Date: 2019.02.09 End Date: 2019.02.09 Last Calib.: 2019.02.09  
 Start Time: 01:38:01 End Time: 08:45:02 Time On Btm: 2019.02.09 @ 04:04:17  
 Time Off Btm: 2019.02.09 @ 06:51:02

**TEST COMMENT:** IF 15 Minutes/ Blow built to 8 1/2 inches  
 ISI 30 Minutes/ No blow back  
 FF 60 Minutes/ Blow to BOB in 28 minutes  
 FSI 60 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.66	86.80	Initial Hydro-static
1	23.53	87.69	Open To Flow (1)
18	48.02	92.54	Shut-In(1)
46	1101.98	95.48	End Shut-In(1)
46	50.80	95.28	Open To Flow (2)
105	136.14	101.35	Shut-In(2)
166	1085.74	102.29	End Shut-In(2)
167	1662.45	101.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
271.00	Muddy Water skim oil/ M 10% W 90%	3.80

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brexco LLC  
2020 N Bramblewood  
Wichita, Kansas 67206+1094  
ATTN: Jerry Smith

**11/16S/14W/Barton**  
**Templing #7**  
Job Ticket: 65094      **DST#: 6**  
Test Start: 2019.02.09 @ 01:38:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	18000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
271.00	Muddy Water skim oil/ M 10% W 90%	3.801

Total Length: 271.00 ft      Total Volume: 3.801 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Recovery Resistivity .768 ohms @ 33 deg.

