

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 Recompletion Date \_\_\_\_\_ 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](mailto: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	BEREXCO LLC
Well Name	LEMKE A #3
Doc ID	1512002

All Electric Logs Run

Sonic
Microlog
Induction
Porosity



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

(C) Tony Vail ✓  
 No. 1957  
 D) WF

Phone 785-483-1071  
 Cell 785-324-1041

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

Date	3-7-20	Sec.	15	Twp.	11	Range	23	County	Trego	State	KS	On Location		Finish	12 Deep
Location								Winkelman SV DR 1/4 E Ninto							

Lease	Lemke	Well No.	A-3	Owner	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.
Contractor	Berexco #10	Charge To Berexco LLC			
Type Job	Surface	Hole Size	12 1/4	T.D.	267
Csg.	8 5/8	Depth	<del>260</del> 262	Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	220 com 3/4 CC 2/4 CC
Meas Line		Displace	16 BC		

**EQUIPMENT**

Pumptrk	17	No.	Cement	Common	220
			Helper	Poz. Mix	
Bulktrk		No.	Driver	Gel.	4
			Driver	Calcium	8
Bulktrk	15	No.	Driver		
			Driver		

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 on bottom. Best Circulation.	Sand
Mix 220 SK & Displace	Handling 231
	Mileage
	<b>FLOAT EQUIPMENT</b> 8 7/8 Surge
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge Surface
	Mileage 41

Cement Circulated  
 Cir app. 30 SKs to pit

Thanks

X Signature *Bryan Paul Baker*

Tax	
Discount	
Total Charge	

MAR 12 2020



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66221

**DST#: 3**

ATTN: Jerry A. Smith

Test Start: 2020.03.13 @ 02:17:54

## GENERAL INFORMATION:

Formation: **LKC "E&F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:57:30

Time Test Ended: 08:59:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3575.00 ft (KB) To 3600.00 ft (KB) (TVD)**

Reference Elevations: 2271.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2264.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6771**

**Inside**

Press@RunDepth: 21.06 psig @ 3576.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.13

End Date:

2020.03.13

Last Calib.:

2020.03.13

Start Time:

02:17:55

End Time:

08:59:00

Time On Btm:

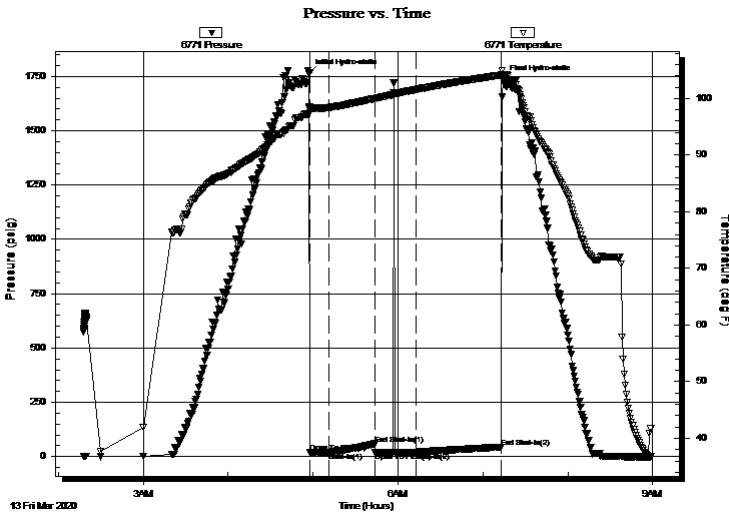
2020.03.13 @ 04:57:15

Time Off Btm:

2020.03.13 @ 07:14:15

**TEST COMMENT:** 15- IF- 1/2" blow  
30- IS- No blow  
30- FF- No blow . Flushed tool. Surface blow  
60- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.39	98.51	Initial Hydro-static
1	17.74	97.47	Open To Flow (1)
14	19.44	98.38	Shut-In(1)
47	58.38	99.99	End Shut-In(1)
47	19.48	100.00	Open To Flow (2)
76	21.06	101.56	Shut-In(2)
136	44.12	104.13	End Shut-In(2)
137	1734.85	104.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	M	0.07

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66221

**DST#: 3**

ATTN: Jerry A. Smith

Test Start: 2020.03.13 @ 02:17:54

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M	0.071

Total Length: 5.00 ft      Total Volume: 0.071 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

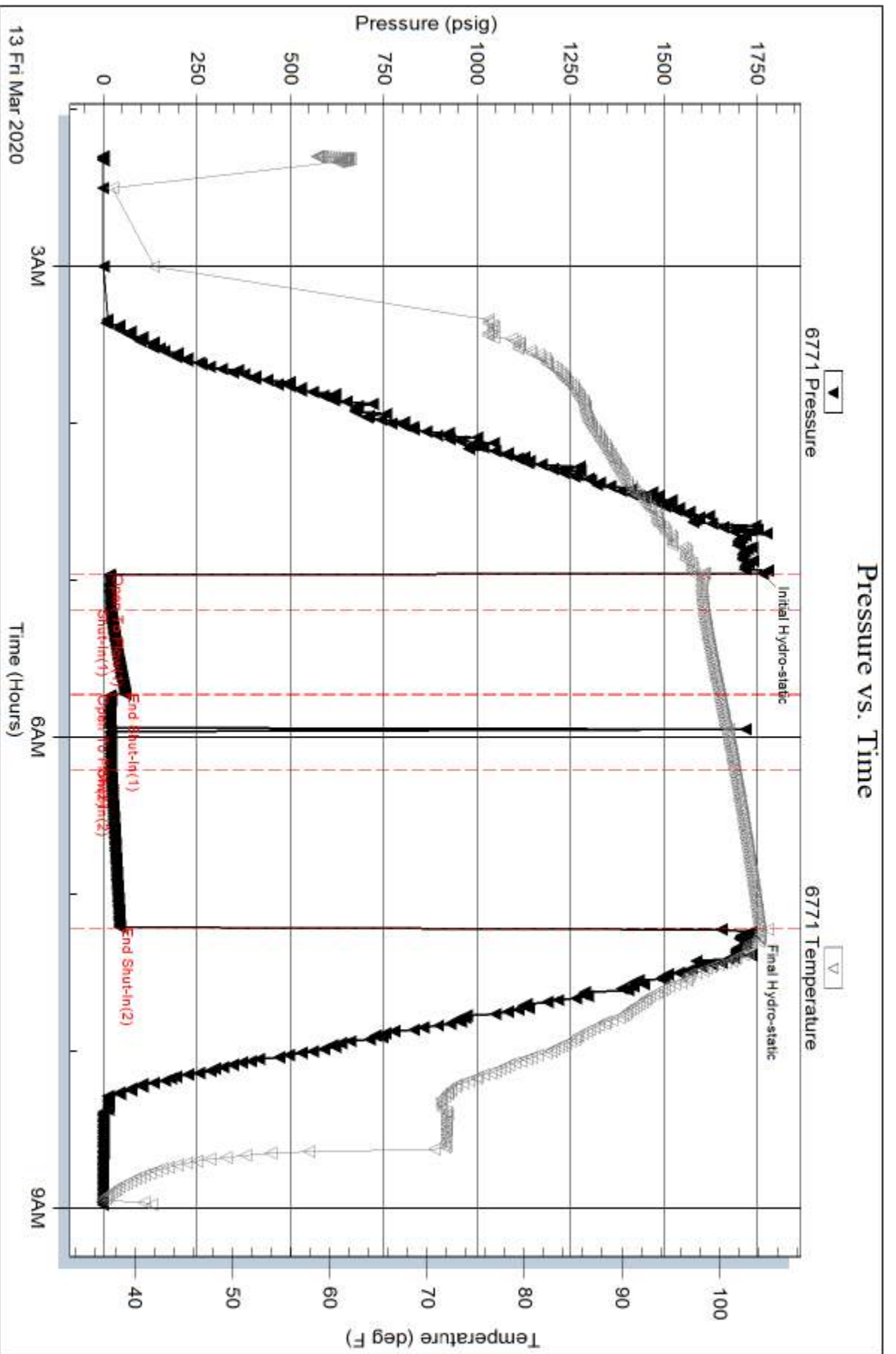
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



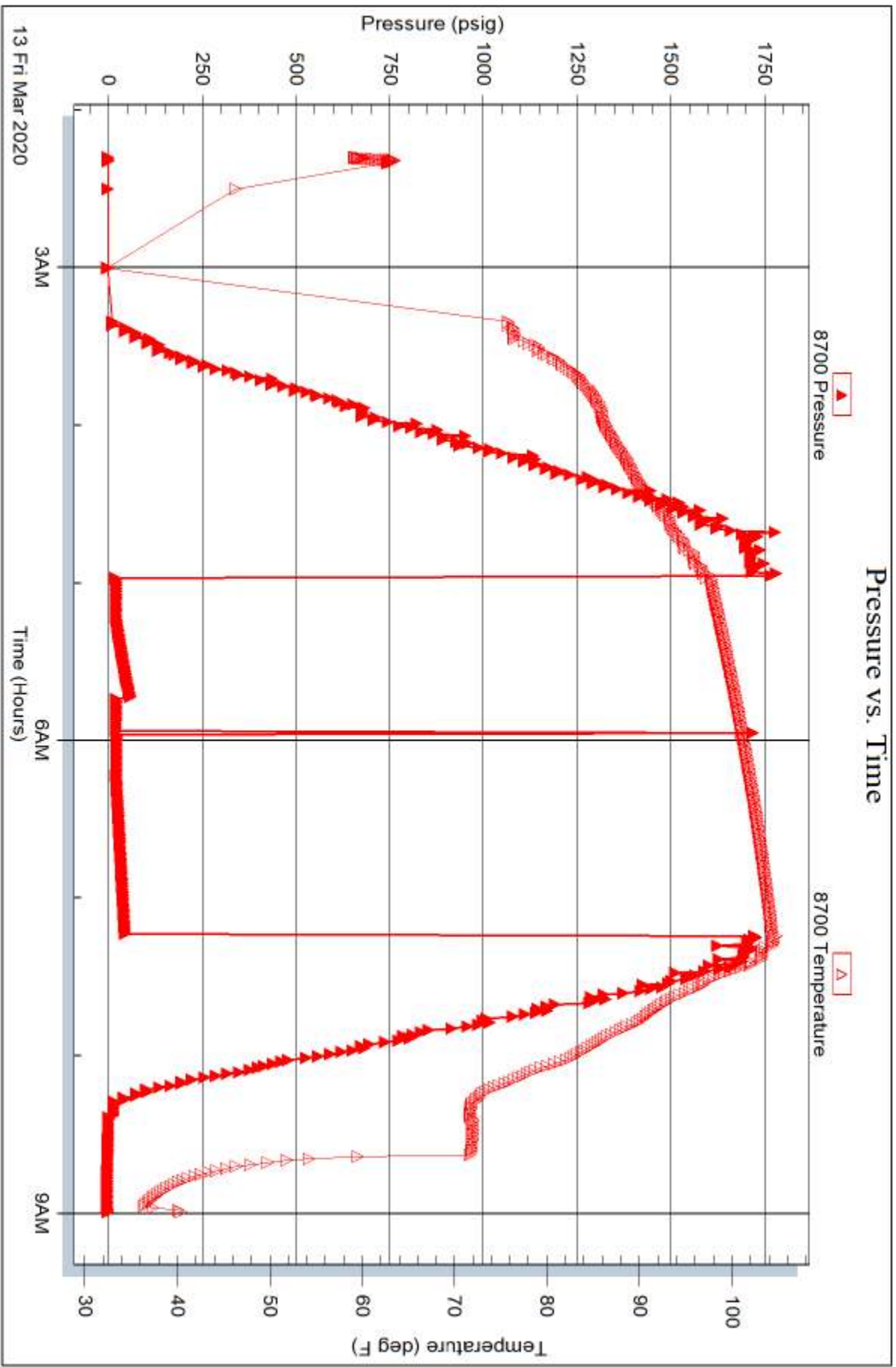


Serial #: 8700

Outside Berexco, LLC

Lenke 'A' #3

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 66221

Printed: 2020.03.13 @ 09:10:25



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66222

**DST#: 4**

ATTN: Jerry A. Smith

Test Start: 2020.03.13 @ 23:15:54

## GENERAL INFORMATION:

Formation: **LKC "I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:45:30

Time Test Ended: 07:52:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3673.00 ft (KB) To 3730.00 ft (KB) (TVD)**

Reference Elevations: 2271.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

2264.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: 24.63 psig @ 3674.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.13

End Date:

2020.03.14

Last Calib.: 2020.03.14

Start Time: 23:15:55

End Time:

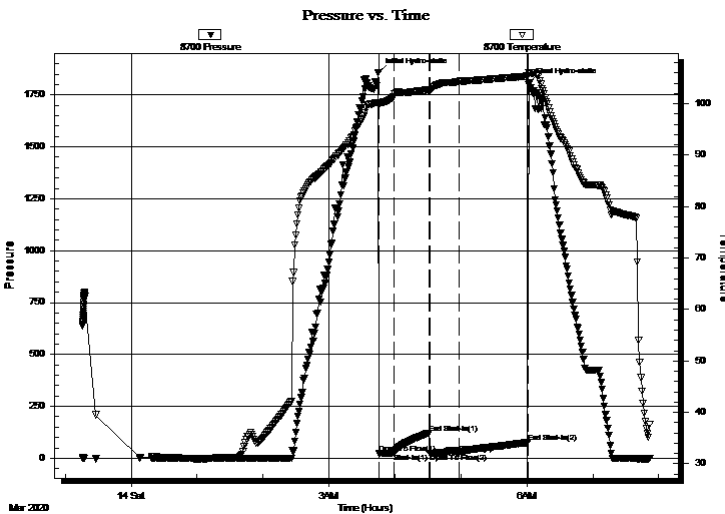
07:52:29

Time On Btm: 2020.03.14 @ 03:45:00

Time Off Btm: 2020.03.14 @ 06:02:30

**TEST COMMENT:** 15- IF- Slowly built to 0.95"  
30- IS- No blow  
30- FF- Slowly built to 0.22"  
60- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1858.29	100.25	Initial Hydro-static
1	21.85	99.89	Open To Flow (1)
14	24.09	101.43	Shut-In(1)
46	121.99	102.72	End Shut-In(1)
47	24.61	102.75	Open To Flow (2)
74	24.63	104.37	Shut-In(2)
136	75.62	105.38	End Shut-In(2)
138	1808.57	105.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.21

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66222

**DST#: 4**

ATTN: Jerry A. Smith

Test Start: 2020.03.13 @ 23:15:54

### 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M	0.213

Total Length: 15.00 ft      Total Volume: 0.213 bbl

Num Fluid Samples: 0

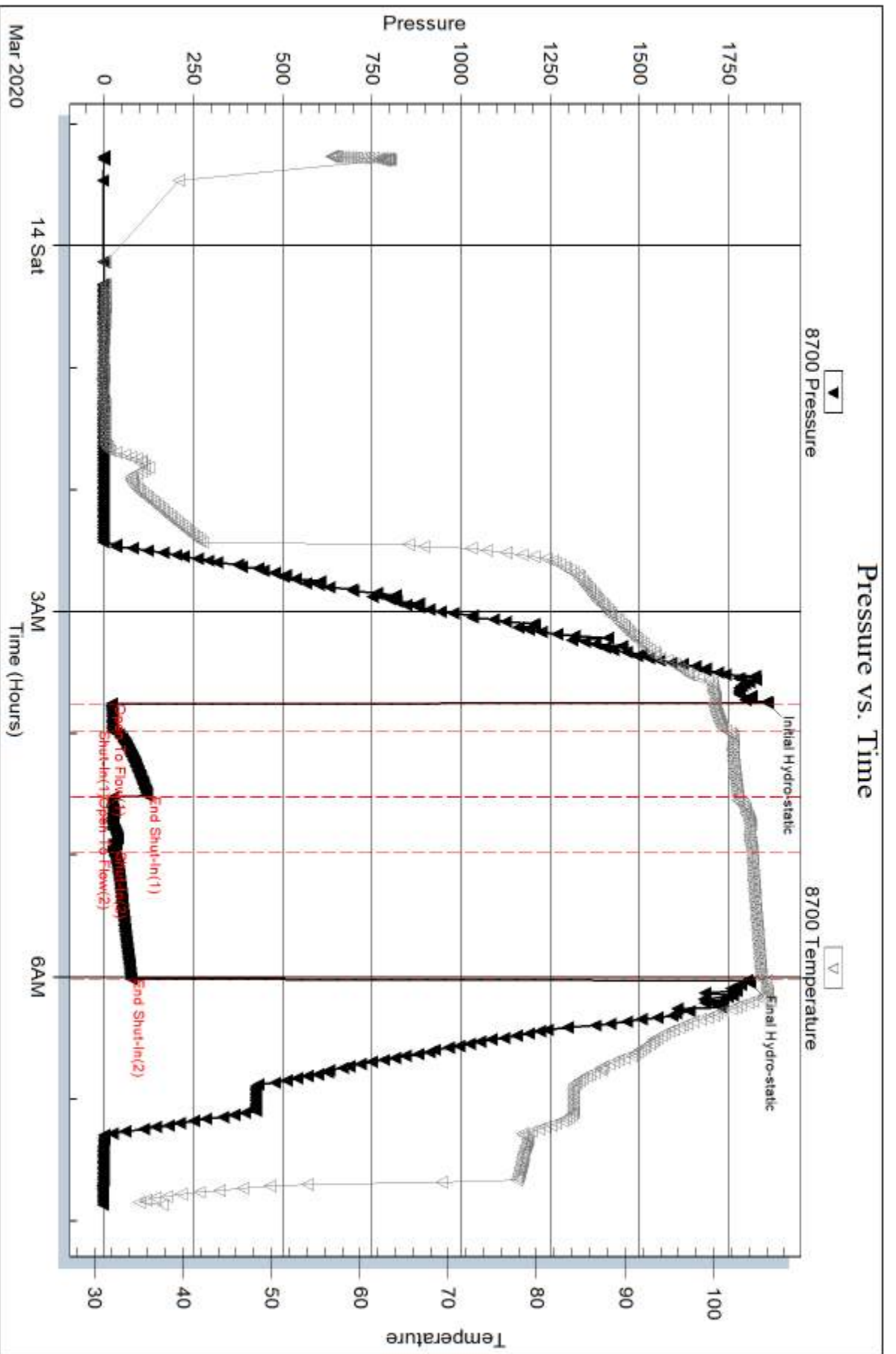
Num Gas Bombs: 0

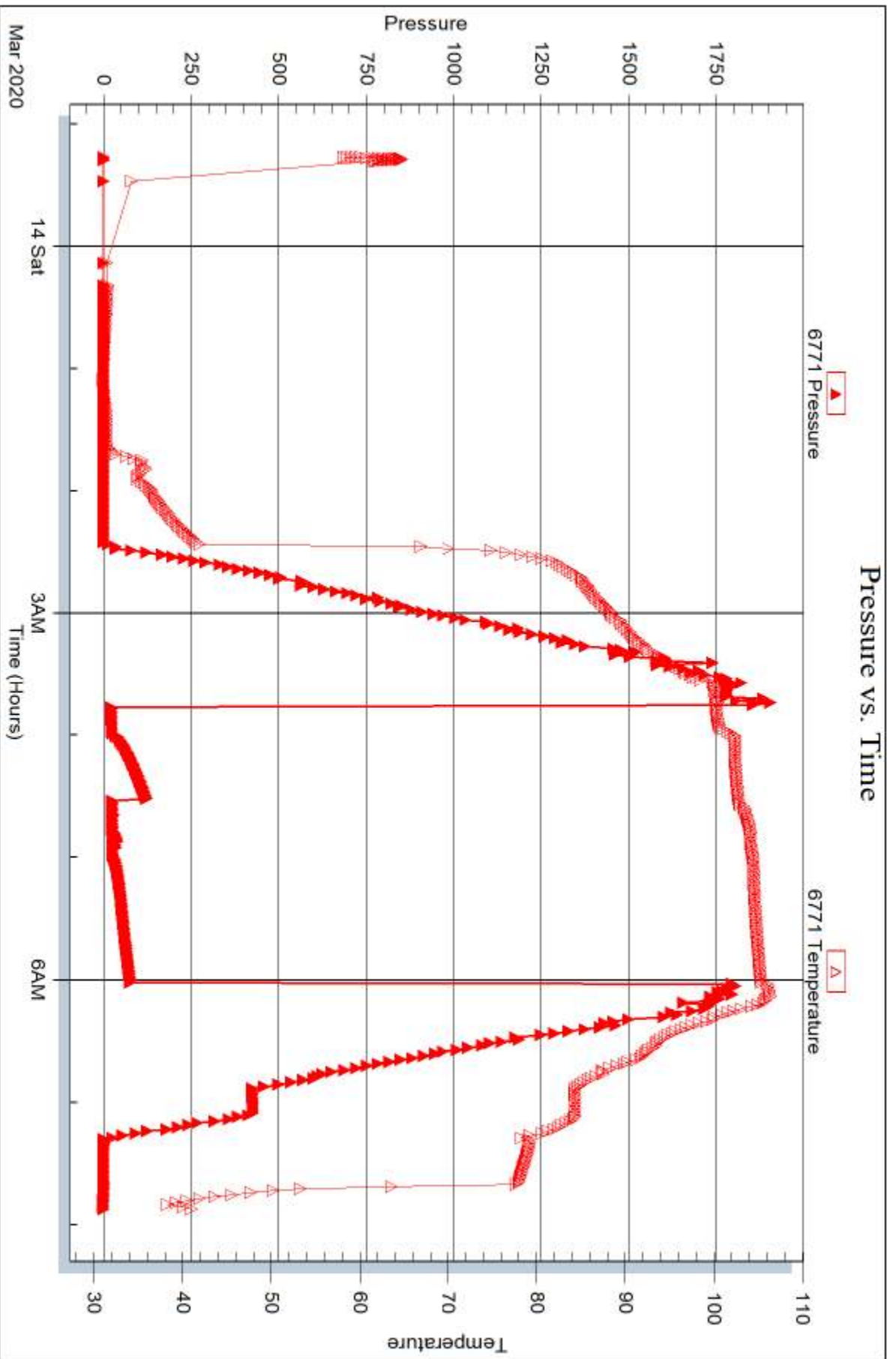
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66223

**DST#: 5**

ATTN: Jerry A. Smith

Test Start: 2020.03.14 @ 23:28:15

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:07:51

Time Test Ended: 07:10:06

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3841.00 ft (KB) To 3870.00 ft (KB) (TVD)**

Reference Elevations: 2271.00 ft (KB)

Total Depth: 3870.00 ft (KB) (TVD)

2264.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: 25.26 psig @ 3842.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.14

End Date:

2020.03.15

Last Calib.: 2020.03.15

Start Time: 23:28:16

End Time:

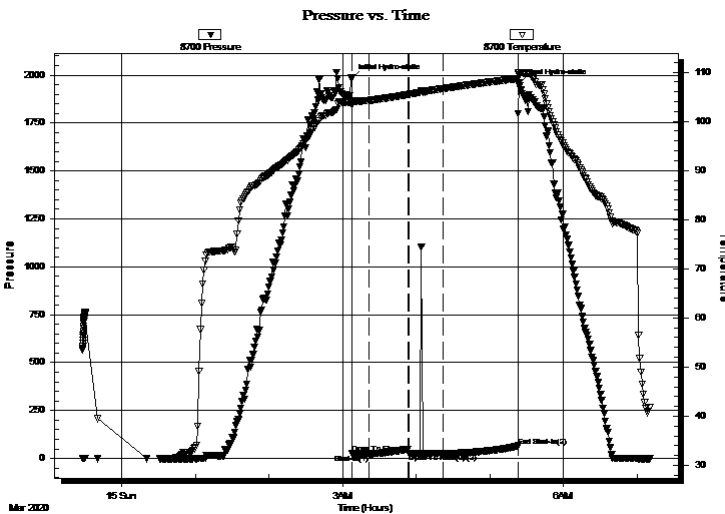
07:10:06

Time On Btm: 2020.03.15 @ 03:07:36

Time Off Btm: 2020.03.15 @ 05:23:36

**TEST COMMENT:** 15- IF- 1/4" blow  
30- IS- No blow  
30- FF- No blow . Flushed tool. No blow  
60- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.32	104.15	Initial Hydro-static
1	24.00	103.36	Open To Flow (1)
14	23.85	104.25	Shut-In(1)
46	49.49	105.44	End Shut-In(1)
47	24.35	105.49	Open To Flow (2)
75	25.26	106.65	Shut-In(2)
136	65.67	108.69	End Shut-In(2)
136	1957.91	109.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	M	0.03

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66223

**DST#: 5**

ATTN: Jerry A. Smith

Test Start: 2020.03.14 @ 23:28:15

## 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:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	M	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

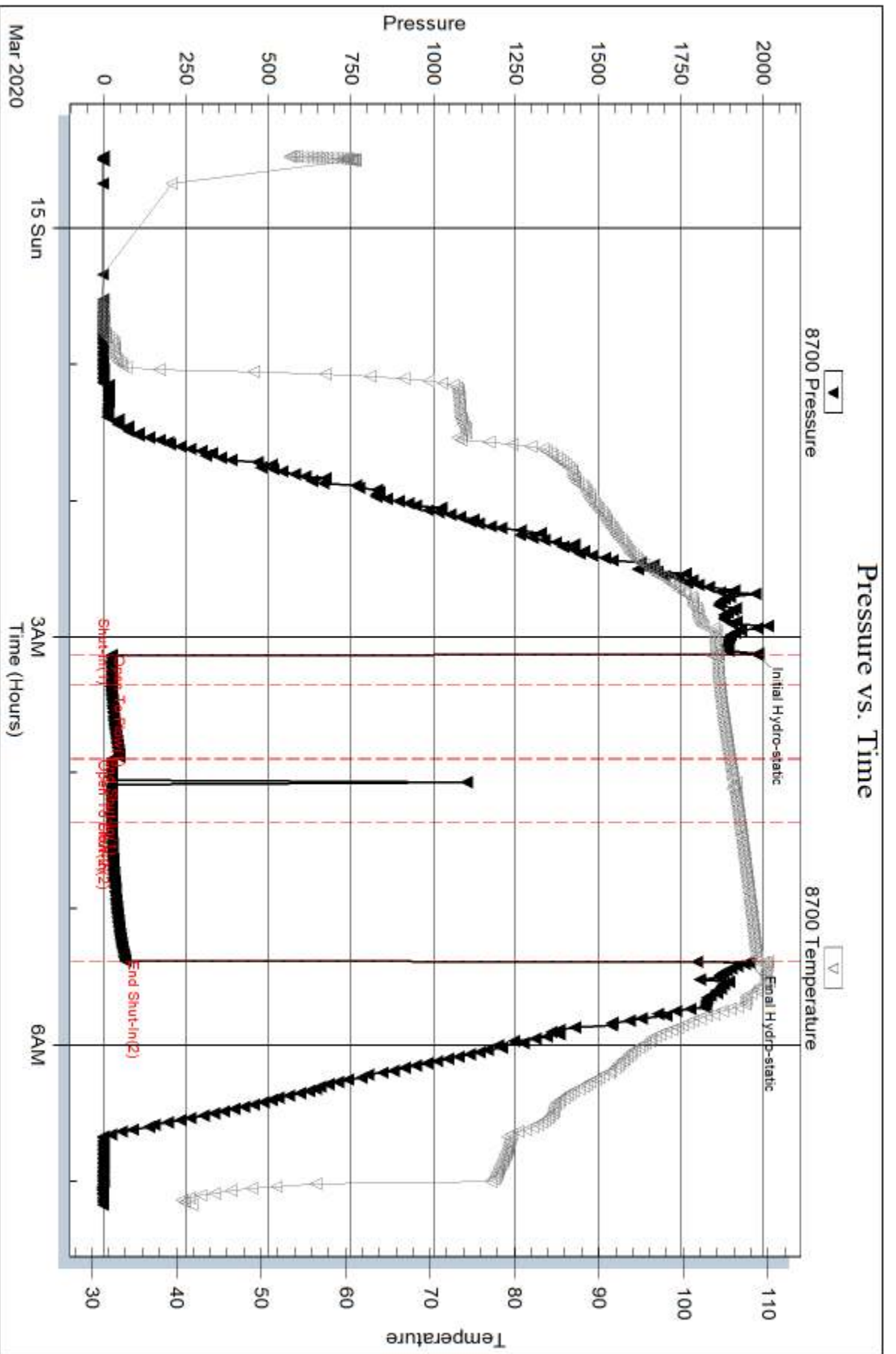
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



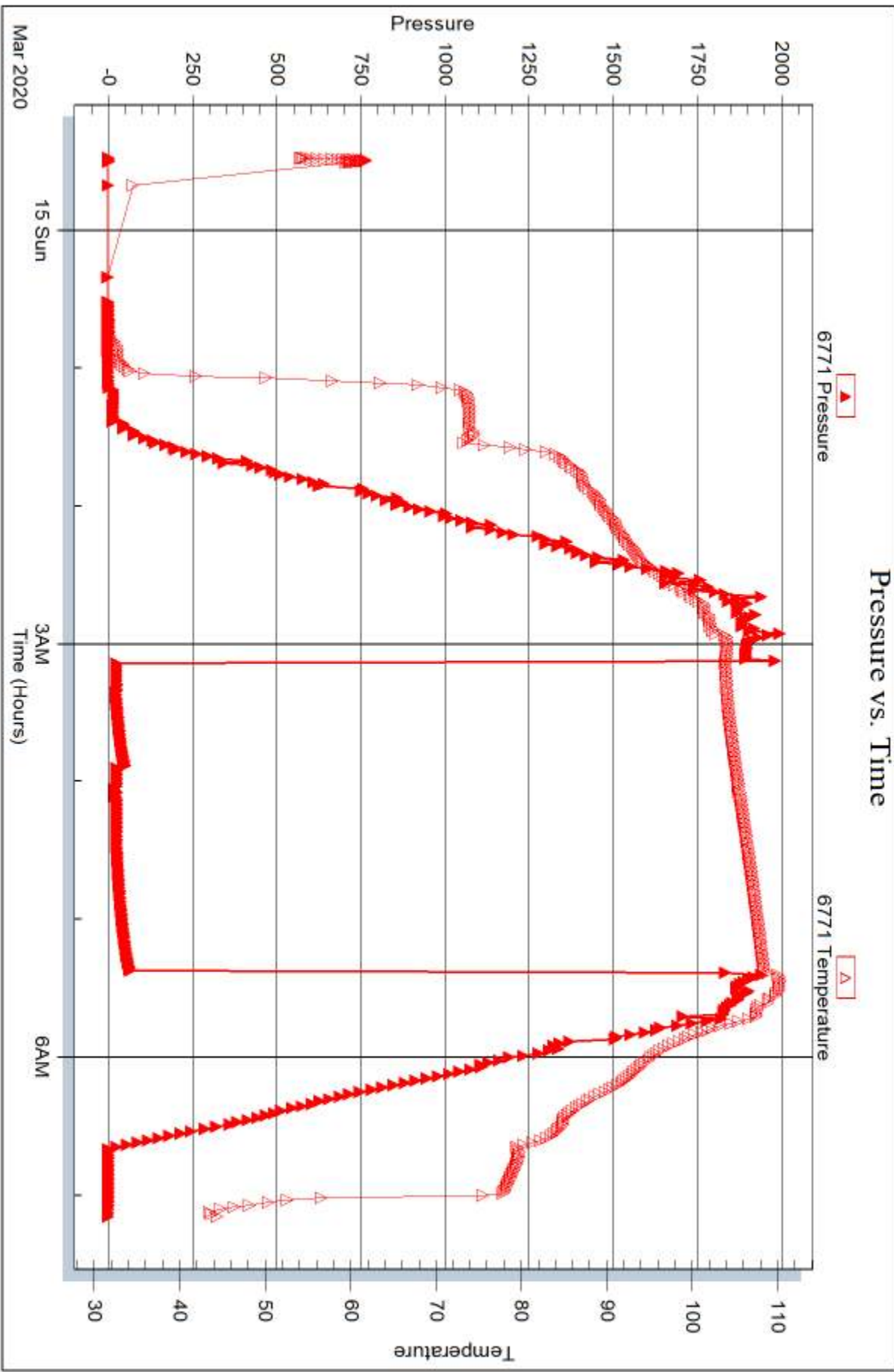
Serial #: 6771

Inside

Berexco, LLC

Lenke 'A' #3

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 66223

Printed: 2020.03.15 @ 08:10:17



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66224

**DST#: 6**

ATTN: Jerry A. Smith

Test Start: 2020.03.15 @ 15:13:27

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:02:33

Time Test Ended: 22:28:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3870.00 ft (KB) To 3890.00 ft (KB) (TVD)**

Reference Elevations: 2271.00 ft (KB)

Total Depth: 3890.00 ft (KB) (TVD)

2264.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: 17.64 psig @ 3871.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.15

End Date: 2020.03.15

Last Calib.: 2020.03.15

Start Time: 15:13:28

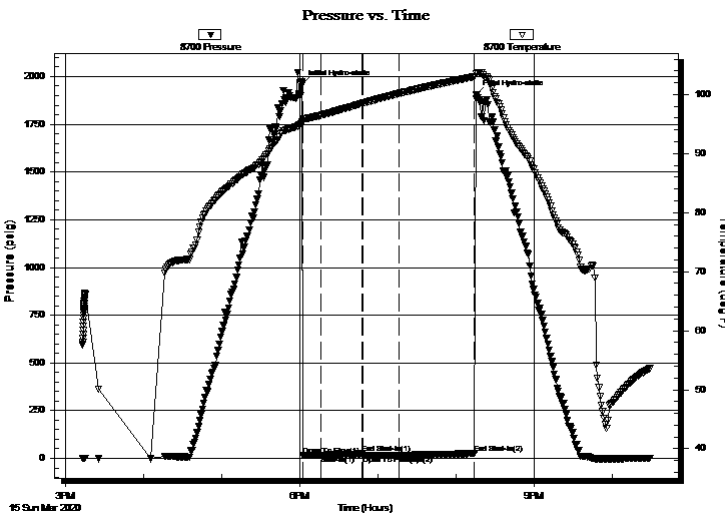
End Time: 22:28:48

Time On Btm: 2020.03.15 @ 18:01:48

Time Off Btm: 2020.03.15 @ 20:15:33

**TEST COMMENT:** 15- IF- 3/4" blow  
30- IS- No blow  
30- FF- Surface blow  
60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.87	95.44	Initial Hydro-static
1	17.03	95.52	Open To Flow (1)
15	17.33	96.45	Shut-In(1)
46	24.28	98.46	End Shut-In(1)
47	16.84	98.53	Open To Flow (2)
75	17.64	100.15	Shut-In(2)
133	25.91	103.02	End Shut-In(2)
134	1905.32	103.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	M	0.01

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66224

**DST#: 6**

ATTN: Jerry A. Smith

Test Start: 2020.03.15 @ 15:13:27

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

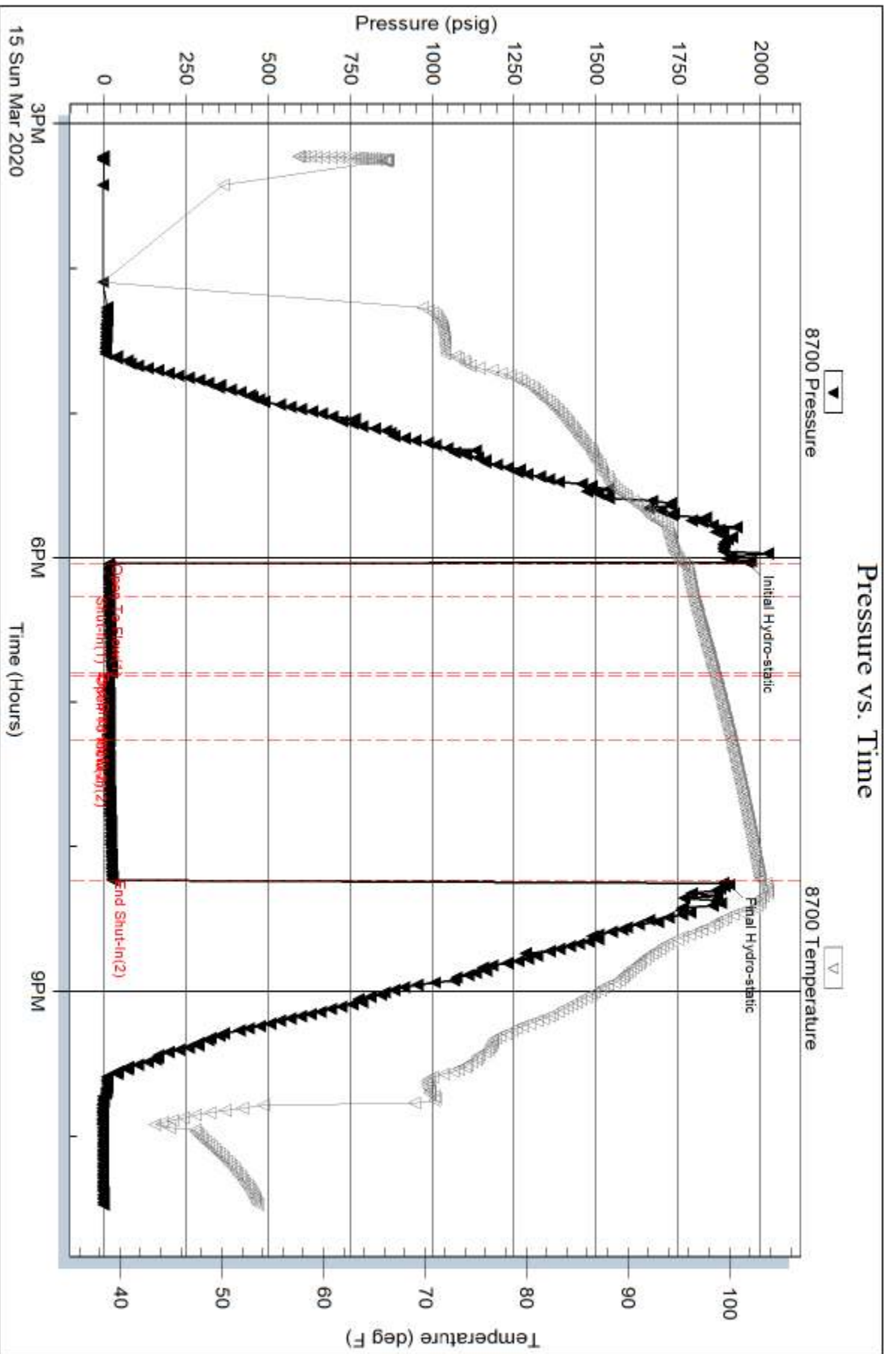
Recovery Comments:

Serial #: 8700

Outside Berexco, LLC

Lenke 'A' #3

DST Test Number: 6





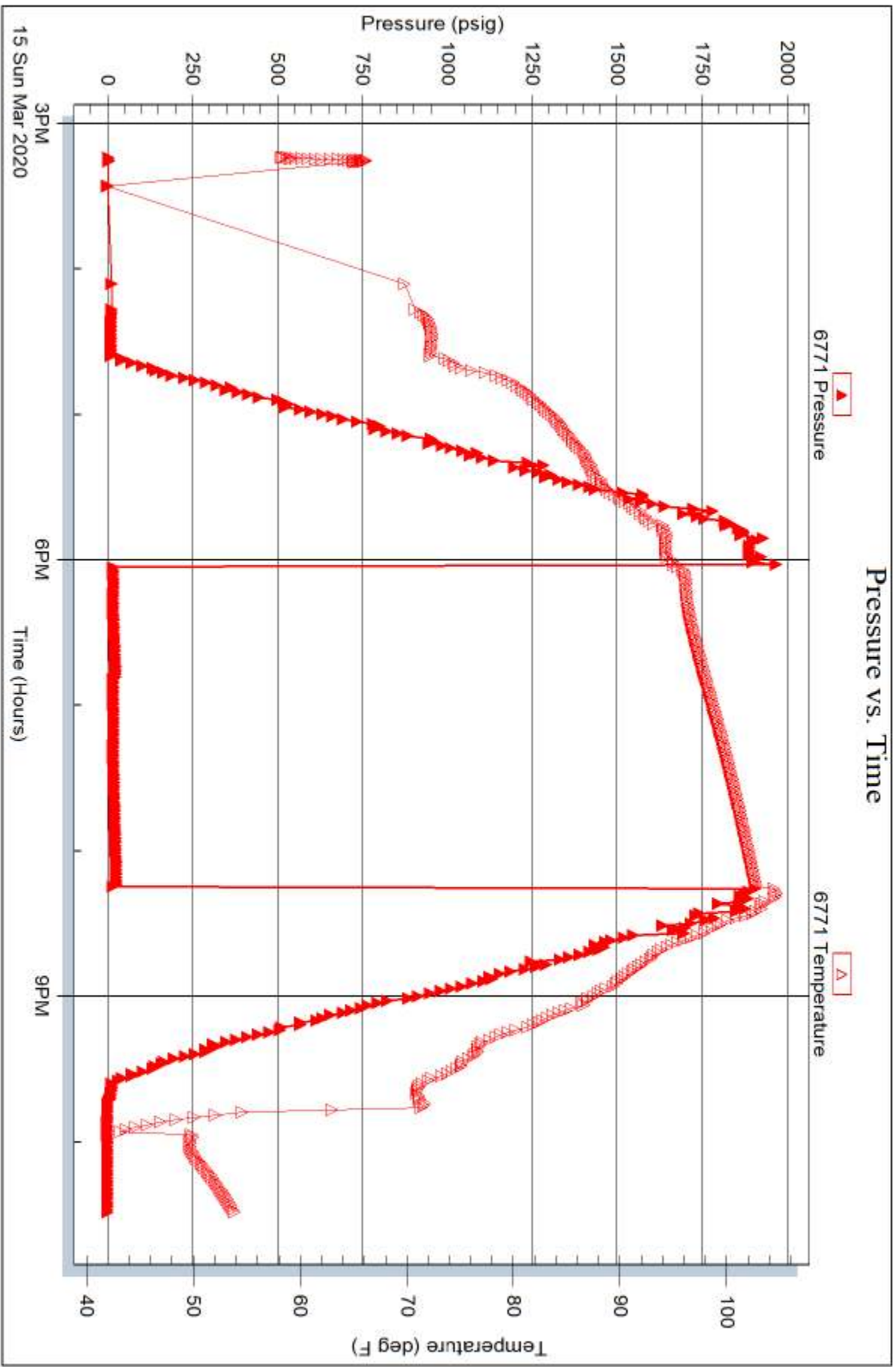
Serial #: 6771

Inside

Berexco, LLC

Lenke 'A' #3

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 66224

Printed: 2020.03.16 @ 07:43:53



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66219

**DST#: 1**

ATTN: Jerry A. Smith

Test Start: 2020.03.11 @ 10:13:56

## GENERAL INFORMATION:

Formation: **Toronto- LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:47:32

Time Test Ended: 18:16:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3464.00 ft (KB) To 3516.00 ft (KB) (TVD)**

Reference Elevations: 2271.00 ft (KB)

Total Depth: 3516.00 ft (KB) (TVD)

2264.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6771**

**Inside**

Press@RunDepth: 44.78 psig @ 3465.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.11

End Date:

2020.03.11

Last Calib.:

2020.03.11

Start Time: 10:13:57

End Time:

18:16:32

Time On Btm:

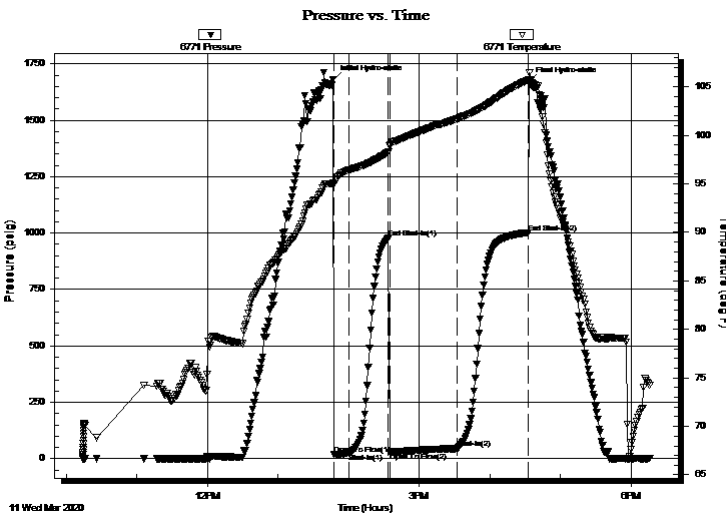
2020.03.11 @ 13:47:02

Time Off Btm:

2020.03.11 @ 16:33:47

**TEST COMMENT:** 15- IF- Slow ly built to 2.10"  
30- IS- No blow  
60- FF- Slow ly built to 2.18"  
60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.32	95.09	Initial Hydro-static
1	18.31	94.97	Open To Flow (1)
14	23.70	96.42	Shut-In(1)
47	977.46	98.31	End Shut-In(1)
48	27.94	99.06	Open To Flow (2)
105	44.78	101.68	Shut-In(2)
166	1002.00	105.72	End Shut-In(2)
167	1673.40	106.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW w / show of oil in tool, 30%M 70%W	0.38

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66219

**DST#: 1**

ATTN: Jerry A. Smith

Test Start: 2020.03.11 @ 10:13:56

## 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:

53000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	MW w / show of oil in tool, 30%M 70%W	0.375

Total Length: 65.00 ft      Total Volume: 0.375 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

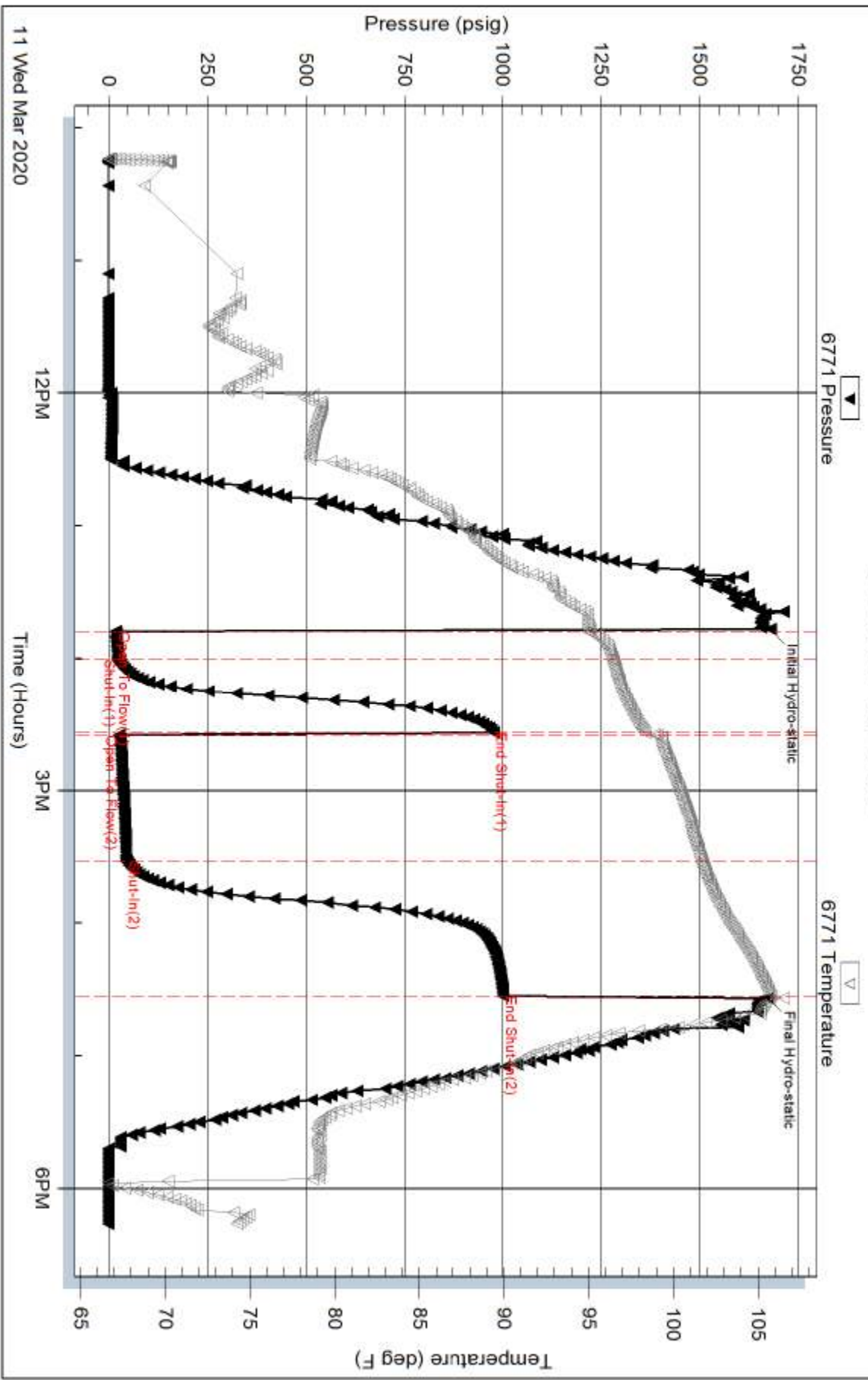
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .17@67deg

### Pressure vs. Time

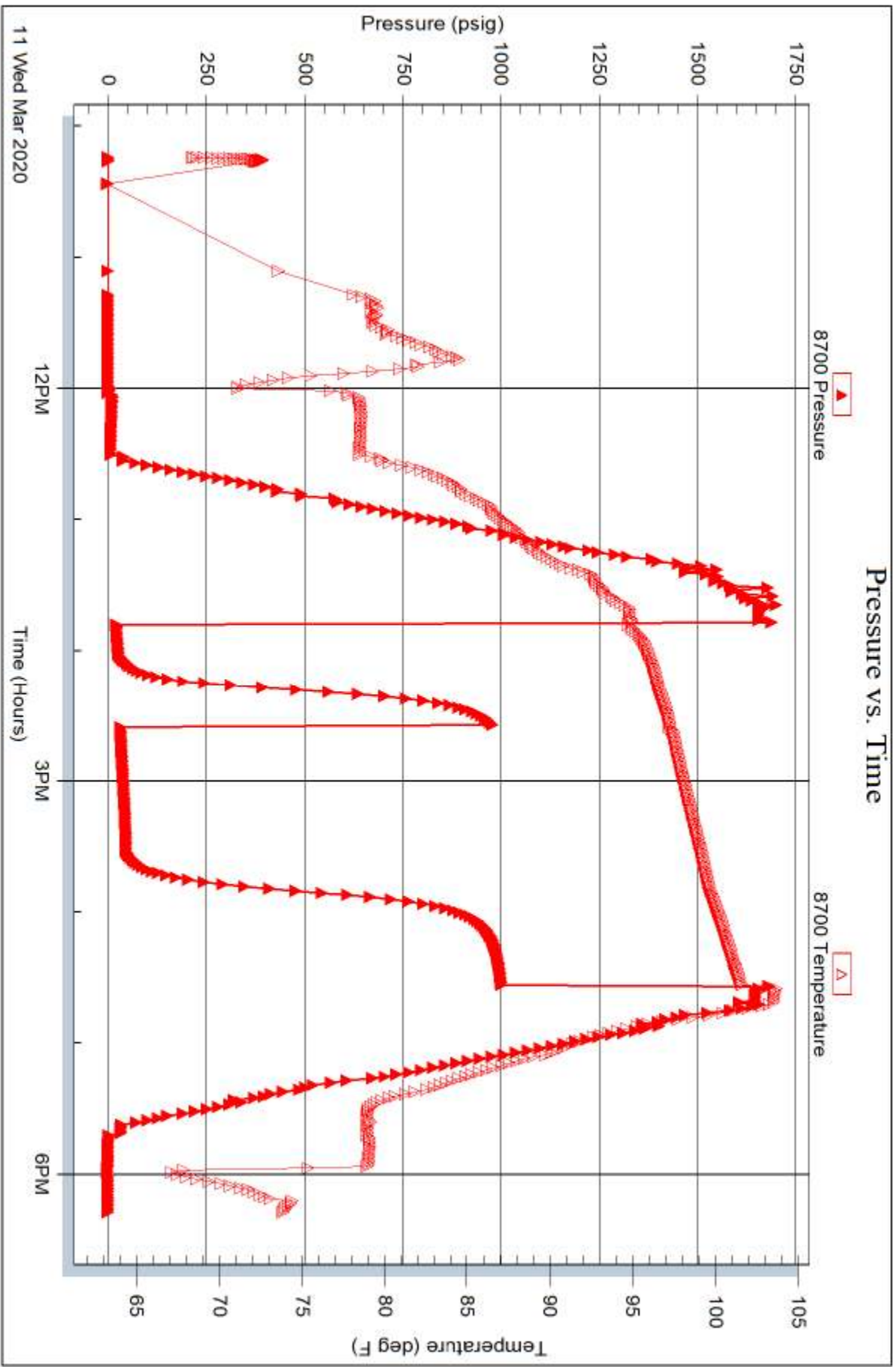


Serial #: 8700

Outside Berexco, LLC

Lenke 'A' #3

DST Test Number: 1





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66220

**DST#: 2**

ATTN: Jerry A. Smith

Test Start: 2020.03.12 @ 09:46:59

## GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:47:50

Time Test Ended: 16:37:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3530.00 ft (KB) To 3550.00 ft (KB) (TVD)**

Reference Elevations: 2271.00 ft (KB)

Total Depth: 3550.00 ft (KB) (TVD)

2264.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: 63.24 psig @ 3531.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.12

End Date:

2020.03.12

Last Calib.:

2020.03.12

Start Time: 09:47:00

End Time:

16:37:35

Time On Btm:

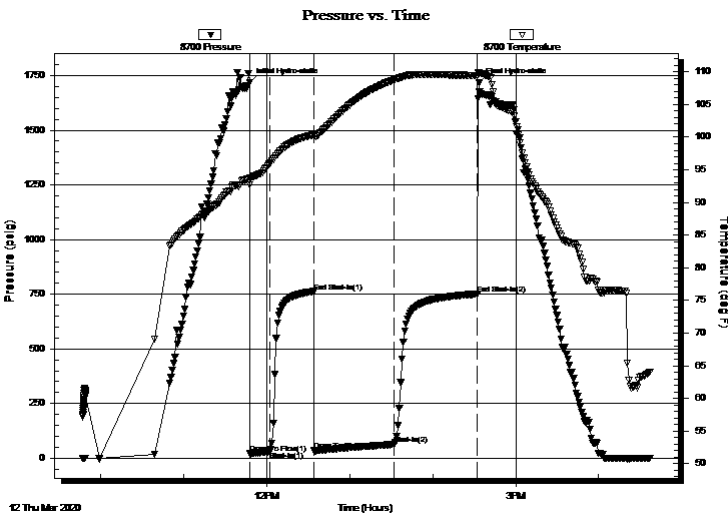
2020.03.12 @ 11:47:35

Time Off Btm:

2020.03.12 @ 14:33:35

**TEST COMMENT:** 15- IF- Slowly built to 3.61"  
30- IS- No blow  
60- FF- Slowly built to 10.09"  
60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.76	93.71	Initial Hydro-static
1	19.86	92.72	Open To Flow (1)
15	30.19	95.99	Shut-In(1)
47	762.24	100.34	End Shut-In(1)
47	34.17	100.23	Open To Flow (2)
105	63.24	108.82	Shut-In(2)
165	750.92	109.45	End Shut-In(2)
166	1716.43	109.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	GOSMW, 15%G 80%W 5%M Trace of oil	0.92
20.00	GWOCM, 5%G 5%O 5%W 85%M	0.28
15.00	CO	0.21
0.00	25' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco, LLC

**15-11S-23W Trego, KS**

2020 Bramblewood  
Wichita, KS

**Lemke 'A' #3**

Job Ticket: 66220

**DST#: 2**

ATTN: Jerry A. Smith

Test Start: 2020.03.12 @ 09:46:59

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

36000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	GOSMW, 15%G 80%W 5%M Trace of oil	0.921
20.00	GWOCM, 5%G 5%O 5%W 85%M	0.284
15.00	CO	0.213
0.00	25' GIP	0.000

Total Length: 100.00 ft      Total Volume: 1.418 bbl

Num Fluid Samples: 0

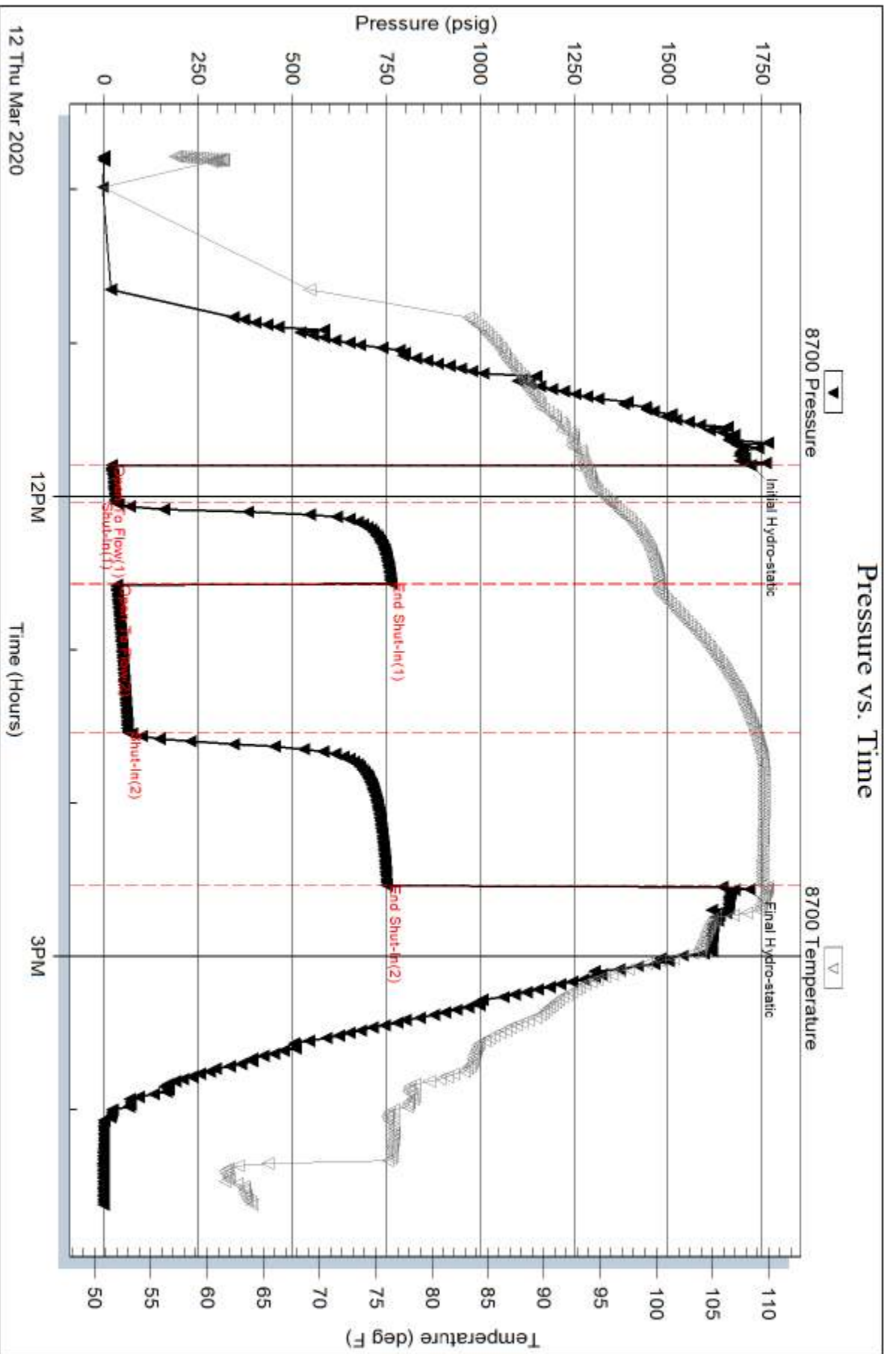
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .22@57deg



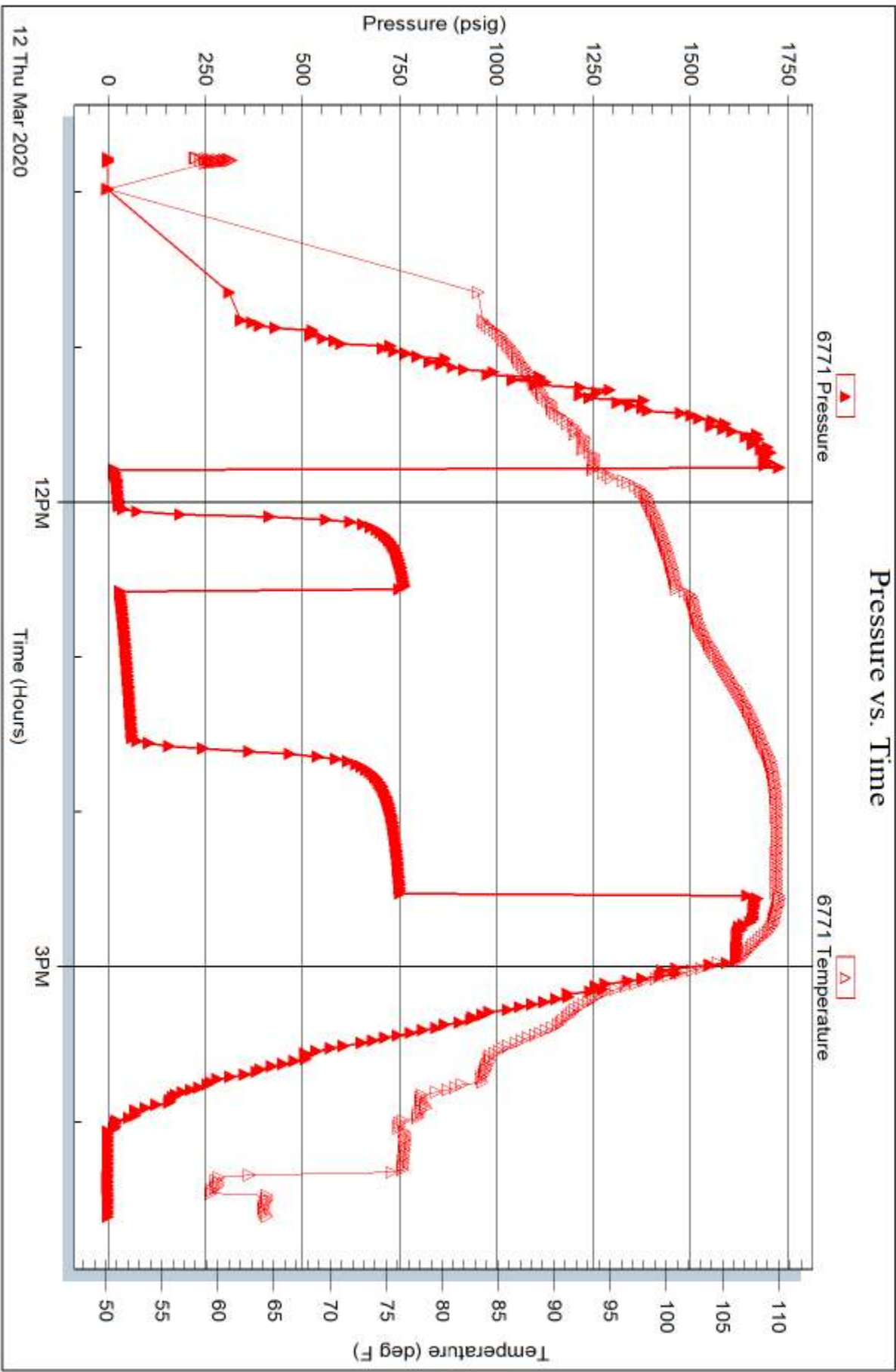
Serial #: 6771

Inside

Berexco, LLC

Lenke 'A' #3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 66220

Printed: 2020.03.12 @ 16:59:19



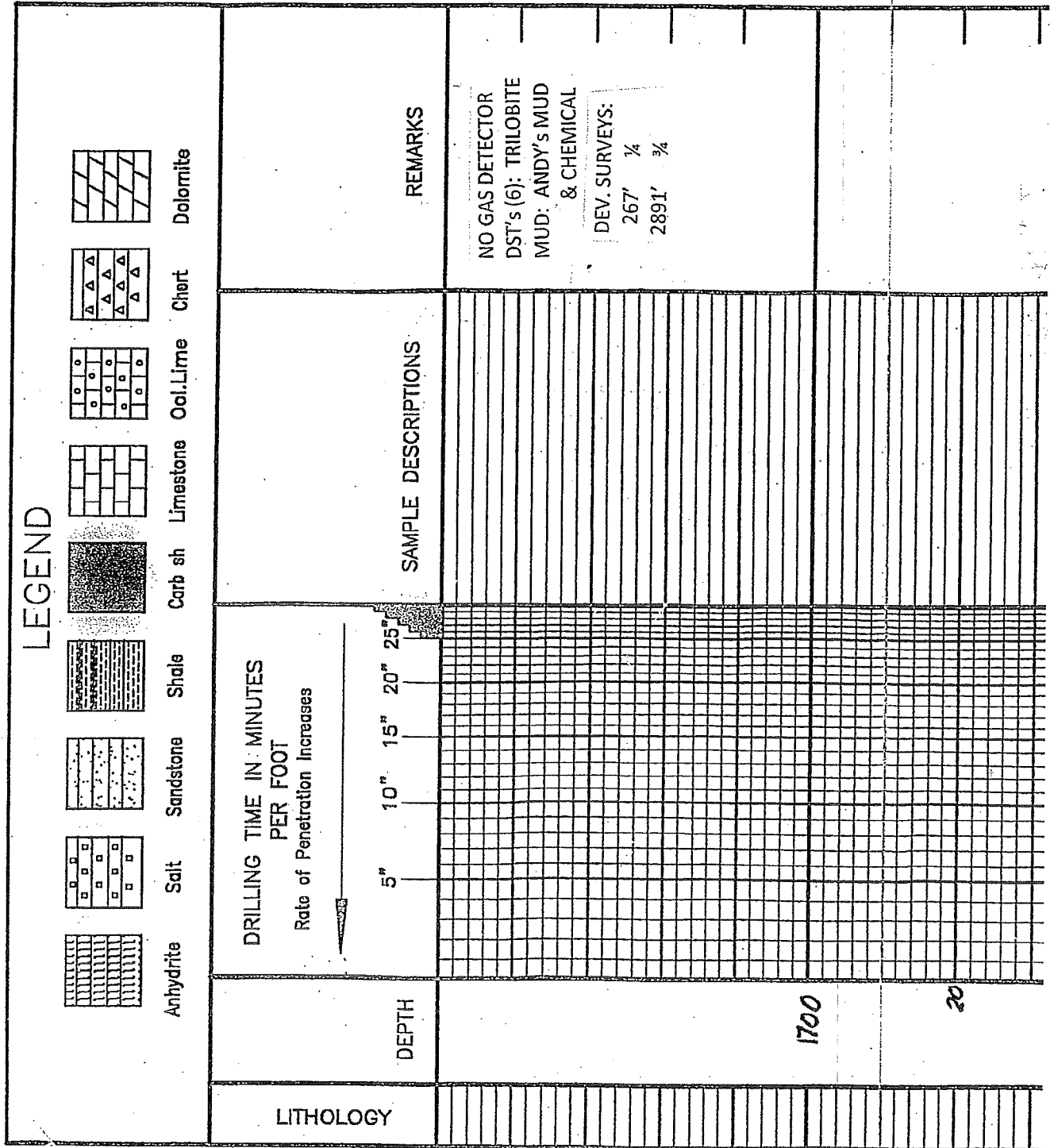
# JERRY A. SMITH

CERTIFIED PETROLEUM GEOLOGIST

## GEOLOGIST'S REPORT DRILLING TIME and SAMPLE LOG

COMPANY: BEREXCO LLC			ELEVATIONS		
LEASE: LEMKE 'A' #3			K.B. 2271		
FIELD: WAKEENEY			D.F.		
LOCATION: 330' FSL & 1320' FWL			G.L. 2264		
SEC. 15	TWSP. 11	RNG.23W	Measurements Are All From:		
COUNTY: TREGO		STATE: KANSAS	KB		
CONTRACTOR: CO. TOOLS RIG #10			CASING		
SPUD: 03/06/2020		COMP. 03/16/2020	SURFACE: 8 5/8" @263'		
RTD. 4075		LTD. 4076	PRODUCTION: P & A		
MUD UP: 3021		TYPE MUD: CHEMICAL	ELECTRICAL SURVEYS		
API No. 15-195-23101			STEP: CNP, LDP, CST, MLT, PIT		
SAMPLES SAVED FROM: 3200			TO: RTD		
DRILLING TIME KEPT FROM: 3000			TO: RTD		
SAMPLES EXAMINED FROM: 3200			TO: RTD		
GEOLOGICAL SUPERVISION FROM: 2695			TO: RTD		
GEOLOGIST ON WELL: JERRY A. SMITH					

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1742 (+529)	1741 (+530)
TOPEKA	3251 (-980)	3251 (-980)
PLATTSMOUTH	3412 (-1141)	3412 (-1141)
HEEBNER	3468 (-1197)	3469 (-1198)
TORONTO	3489 (-1218)	3487 (-1216)
LANSING	3502 (-1231)	3502 (-1231)
B/KANSAS CITY	3734 (-1463)	3733 (-1462)
MARMATON	3840 (-1569)	3837 (-1566)
SOLID ARBUCKLE	3966 (-1695)	3962 (-1691)



ANHYDRITE  
1741 (+530) SMPL  
1742 (+529) LOG

B/ANHYDRITE  
1781 (+490) SMPL  
1782 (+489) LOG

VERT. LOG SCALE: 5" = 100'

BIT TRIP @ 2891'  
PIPE STRAP:  
2917.68 STRAP  
2915.60 BOARD  
2.08 LONG

MUD @ 3042:  
8.6 WT, 58 VIS, 7.6 FILT,  
500 CHLOR, 4# LCM

20 40 60 80 3000 20 40 60 80 3100 20 40 60 80



10' SAMPLES  
START @ 3200'

TOPEKA  
3251 (-980) SMPL & LOG

PLATTSMOUTH  
3412 (-1141) SMPL & LOG

LA-LT GR → CRN EX. DSE  
→ CRN EX. RED SH-LT →  
MISY GR. GRN.

LMF SA → AA w/ TR RED

ARNDY SA-LT → N → DASH  
EX-GRN, TR RED.

SA-AA w/ TR LT GR. LINTY LM.

SA-AA w/ TR BLK CAPR SH TR  
MISY GR. GRN.

SA-AA w/ ARD DREY. SEPT. SAL  
SH.

SH-N → DREY EX-GRN w/ LG  
A CRN → GRN → GRN.

LA-CRM, LT GR. F. X. DSE.

SH-LT → N → DR GR. w/ GRN  
EX. EX. DREY → GRN.

SA-LT → N → DR GR. w/ GRN-LT  
GR. EX. DREY → GRN.

SH SA → AA-AA. TR  
BAR. GRN. SH.

LM & SA → AA.

LMF SA → AA.

LM-CRM SH → NGR. GR. ZAL  
EX. DREY → SUB-GRN. GRN  
TR GR. SH.

LMF SA → AA. ARD MLY  
TR. GR. SH.

LA-CRM. GR. → NGR. GR. TR  
GR. EX. DREY. ARD MLY. SH.  
SH. GR. ARD MLY. SH.

SA-AA. DEC. IN CRN. LINTY LM  
MISY GR. SH.

LA-LT → MLY. GR. → GR. EX. DREY  
No. MLY. ARD MLY. SH. SH.  
CHS. SH. Y.

LA-AA. DR GR. DE RED. SH.

LM-LT → MLY. EX. DREY → GRN  
ARD MLY. SH. GR. SH.

LMF SA → AA.

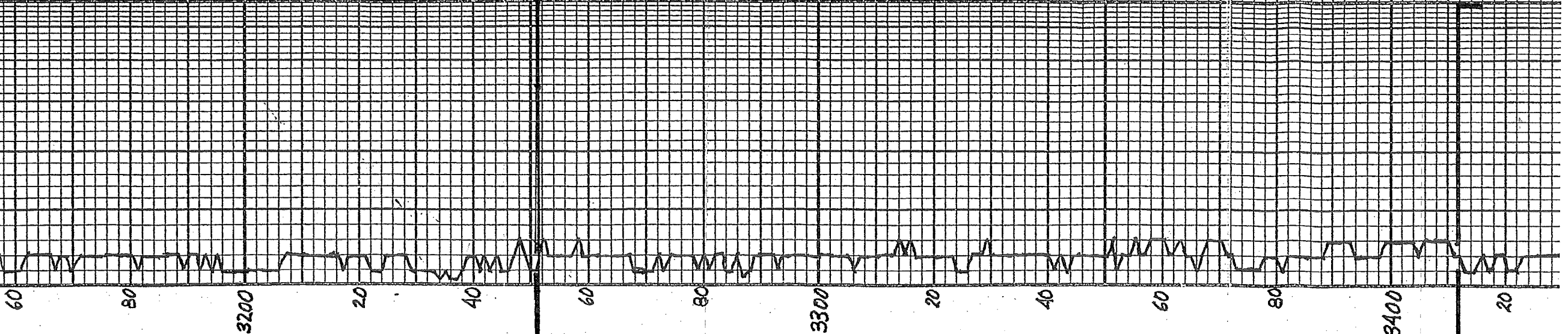
LA-AA. DEC. IN CRN. SH →  
TR. SH → DREY EX-GRN. RED.

LA-LT → MLY. EX. DSE. No  
MISY GR. GRN. SH. SH.  
SH. DSE.

LA-CRM. GR. → NGR. GR. → GRN  
DREY. GR. SH. SH. SH. SH. SH.  
SH. DREY. GR. SH. SH. SH. SH.  
SH. DREY. GR. SH. SH. SH. SH.

LA-LT → MLY. EX. DREY → GRN  
SH. SH. SH. SH. SH. SH. SH.  
SH. SH. SH. SH. SH. SH. SH.

LM. CRN. SH → AA.







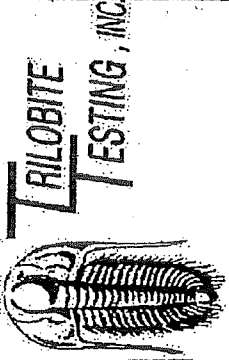






HOLOGY	DEPTH	DRILLING TIME MINUTES/FOOT	SAMPLE DESCRIPTIONS	REMARKS
		Rate of Penetration Increases		

COMPANY: BEREXCO LLC	ELEVATION: 2271 KB		
LEASE: LEMKE 'A' #3			
LOCATION: 330' FSL & 1320' FWL	SEC 15	TWP 11	RGE 23W
COUNTY: TREGO	STATE: KS		



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

15-11S-23W Trego, KS

Lemke 'A' #3

Job Ticket: 66219 DST#:1

ATTN: Jerry A. Smith

Test Start: 2020.03.11 @ 10:13:56

**GENERAL INFORMATION:**

Formation: Toronto- LKC "A"  
 Deviated: No Whipstock  
 Time Tool Opened: 13:47:32  
 Time Test Ended: 18:16:32

Interval: 3464.00 ft (KB) To 3516.00 ft (KB) (TVD)  
 Total Depth: 3516.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

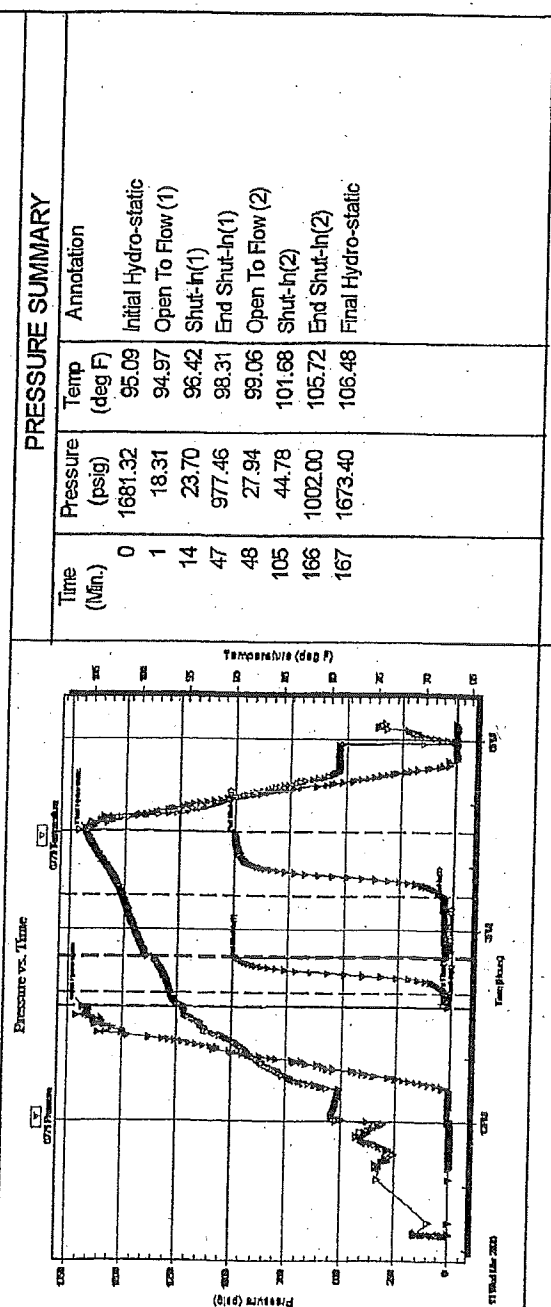
Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brannan Lonsdale  
 Unit No: 73

Reference Elevations: 2271.00 ft (KB)  
 2264.00 ft (CF)  
 KB to GR/CF: 7.00 ft

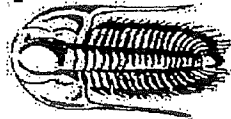
Serial #: 6771 Inside  
 Press@RunDepth: 44.78 psig @ 3465.00 ft (KB)  
 Start Date: 2020.03.11 End Date:  
 Start Time: 10:13:56 End Time:

Capacity: 8000.00 psig  
 Last Calib.: 2020.03.11  
 Time On Bltr: 2020.03.11 @ 13:47:02  
 Time Off Bltr: 2020.03.11 @ 16:33:47

**TEST COMMENT:** 15- IF- Slow ly built to 2.10"  
 30- IS- No blow  
 60- FF- Slowly built to 2.18"  
 60- FS- No blow



Recovery		Gas Rates		
Length (ft)	Description	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
65.00	MMW w/ show of oil in tool, 30%M 70%W			0.38



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Berexco, LLC

15-11S-23W Trego, KS

2020 Bramblewood  
Wichita, KS

Lemke 'A' #3

Job Ticket: 66220 DST#:2

ATTN: Jerry A. Smith

Test Start: 2020.03.12 @ 09:46:59

**GENERAL INFORMATION:**

Formation: LKC "B"  
Deviated: No Whipstock  
Time Tool Opened: 11:47:50  
Time Test Ended: 16:37:35

Test Type: Conventional Bottom Hole (Reset)  
Tester: Brannan Lonsdale  
Unit No: 73

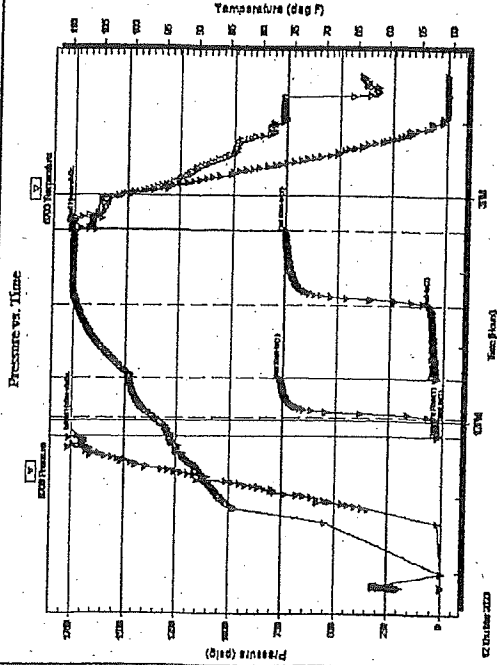
Interval: 3530.00 ft (KB) To 3550.00 ft (KB) (TVD)  
Total Depth: 3550.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches-Hole Condition: Fair

Reference Elevations: 2271.00 ft (KB)  
2264.00 ft (CF)  
7.00 ft  
KB to GR/CF:

Serial #: 8700 Outside  
Press@RunDepth: 63.24 psig @ 3531.00 ft (KB)  
Start Date: 2020.03.12 End Date:  
Start Time: 09:46:59 End Time:

Capacity: 8000.00 psig  
Last Calib.: 2020.03.12  
Time On Btm: 2020.03.12 @ 11:47:35  
Time Off Btm: 2020.03.12 @ 14:33:35

**TEST COMMENT:** 15- IF- Slowly built to 3.61"  
30- IS- No blow  
60- FF- Slowly built to 10.09"  
60- FS- No blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.76	93.71	Initial Hydro-static
1	19.86	92.72	Open To Flow (1)
15	30.19	95.99	Shut-In(1)
47	762.24	100.34	End Shut-In(1)
47	34.17	100.23	Open To Flow (2)
105	63.24	108.82	Shut-In(2)
165	750.92	109.45	End Shut-In(2)
166	1716.43	109.86	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
65.00	GOSMM, 15%G 80%W 5%M Trace of oil	0.92
20.00	GWOCM, 5%G 5%O 5%W 85%M	0.28
15.00	CO	0.21
0.00	25' GIP	0.00

\* Recovery from multiple tests

**Gas Rates**

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

Trilobite Testing, Inc

Ref. No: 66220

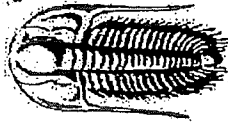
Printed: 2020.03.12 @ 16:49:44



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Berexco, LLC



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Berexco, LLC  
 2020 Bramblewood  
 Wichita, KS  
 ATTN: Jerry A. Smith

15-11S-23W Trego, KS  
 Lemke 'A' #3  
 Job Ticket: 66221 DST#:3  
 Test Start: 2020.03.13 @ 02:17:54

### GENERAL INFORMATION:

Formation: LKC "B&F"  
 Deviated: No Whipstock  
 Time Tool Opened: 04:57:30  
 Time Test Ended: 08:59:00

Interval: 3575.00 ft (KB) To 3600.00 ft (KB) (TVD)  
 Total Depth: 3600.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

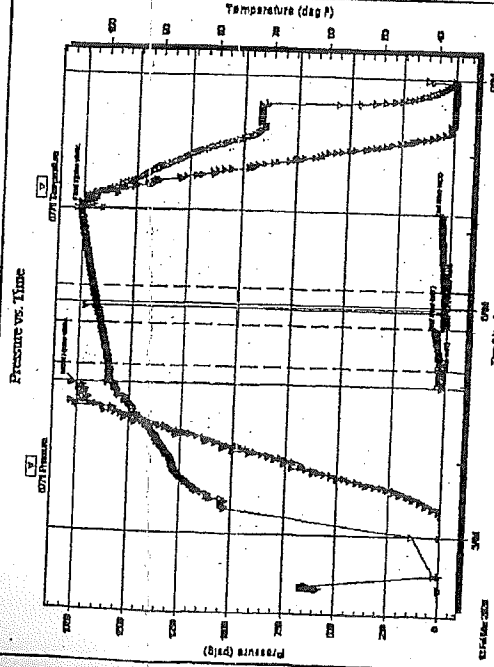
Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan Lonsdale  
 Unit No: 73

Reference Elevations:  
 2271.00 ft (KB)  
 2264.00 ft (CF)  
 7.00 ft  
 KB to GRVCF:

Serial #: 6771 Inside  
 Press@RmDepth: 21.06 psig @ 3576.00 ft (KB)  
 Start Date: 2020.03.13 End Date:  
 Start Time: 02:17:54 End Time:

Capacity: 8000.00 psig  
 Last Calib.: 2020.03.13  
 Time On Btm: 2020.03.13 @ 04:57:15  
 Time Off Btm: 2020.03.13 @ 07:14:15

TEST COMMENT: 15- IF- 1/2" blow  
 30- IS- No blow  
 30- FF- No blow. Flushed tool. Surface blow  
 60- FS- No blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.39	98.51	Initial Hydro-static
1	17.74	97.47	Open To Flow (1)
14	19.44	98.38	Shut-In(1)
47	58.38	99.99	End Shut-In(1)
47	19.48	100.00	Open To Flow (2)
76	21.06	101.56	Shut-In(2)
136	44.12	104.13	End Shut-In(2)
137	1734.85	104.18	Final Hydro-static

### Recovery

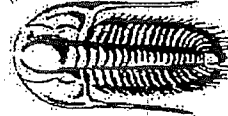
Length (ft)	Description	Volume (bbl)
5.00	M	0.07

\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 66221

Printed: 2020.03.13 @ 09:07:45



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Berexco, LLC  
 2020 Bramblewood  
 Wichita, KS  
 ATTN: Jerry A. Smith

15-11S-23W Trego, KS  
 Lemke 'A' #3  
 Job Ticket: 66222 DST#:4  
 Test Start: 2020.03.13 @ 23:15:54

### GENERAL INFORMATION:

Formation: LKC "I-K"  
 Deviated: No Whipstock  
 Time Tool Opened: 03:45:30

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Wichita, KS

ATTN: Jerry A. Smith

Job Ticket: 66222

DST#4

Test Start: 2020.03.13 @ 23:15:54

GENERAL INFORMATION:

Formation: LKC "I-K"
Deviated: No Whipstock
Time Tool Opened: 03:45:30
Time Test Ended: 07:52:29
Interval: 3673.00 ft (KB) To 3730.00 ft (KB) (TVD)
Total Depth: 3730.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

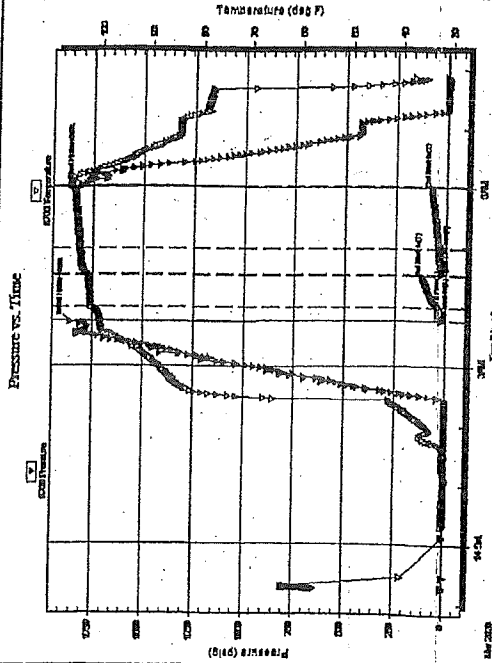
Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan Lonsdale
Unit No: 73
Reference Elevations: 2271.00 ft (KB)
2264.00 ft (CF)
7.00 ft

Serial #: 8700

Press@RunDepth: 24.63 psig @ 3674.00 ft (KB)
Start Date: 2020.03.13 End Date:
Start Time: 23:15:54 End Time:

Capacity: 8000.00 psig
Last Calib.: 2020.03.14
Time On Blm: 2020.03.14 @ 03:45:00
Time Off Blm: 2020.03.14 @ 06:02:30

TEST COMMENT: 15- IF- Slowly built to 0.95"
30- ISI- No blow
30- FF- Slowly built to 0.22"
60- FSI- No blow



PRESSURE SUMMARY

Table with columns: Time (Min), Pressure (psig), Temp (deg F), Annotation. Rows include Initial Hydro-static, Open To Flow (1), Shut-In(1), End Shut-In(1), Open To Flow (2), Shut-In(2), End Shut-In(2), and Final Hydro-static.

Recovery

Table with columns: Length (ft), Description, Volume (bbl). Row 1: 15.00, M, 0.21.

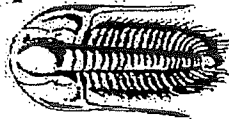
Gas Rates

Table with columns: Choke (Inches), Pressure (psig), Gas Rate (Mcf/d).

Trilobite Testing, Inc

Ref. No: 66222

Printed: 2020.03.14 @ 08:00:52



DRILL STEM TEST REPORT

Berexco, LLC

15-11S-23W Trego, KS

2020 Bramblewood
Wichita, KS

Lemke 'A' #3

Job Ticket: 66228

DST#5

ATTN: Jerry A. Smith

Test Start: 2020.03.14 @ 23:28:15

GENERAL INFORMATION:

Formation: Marmaton
Deviated: No Whipstock
Time Tool Opened: 03:07:51
Time Test Ended: 07:10:06

Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan Lonsdale
Unit No: 73

Interval: 3841.00 ft (KB) To 3870.00 ft (KB) (TVD)
Total Depth: 3870.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2271.00 ft (KB)
2264.00 ft (CF)
7.00 ft

Serial #: 8700

Press@RunDepth: 25.26 psig @ 3842.00 ft (KB)
Start Date: 2020.03.14 End Date:

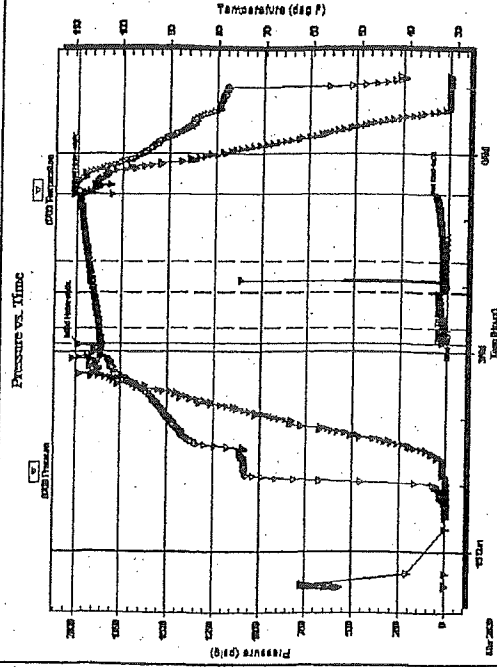
Capacity: 8000.00 psig
Last Calib.: 2020.03.14

Interval: 3841.00 ft (KB) To 3870.00 ft (KB) (TVD)  
 Total Depth: 3870.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches-Hole Condition: Fair

Reference Elevations: 2271.00 ft (KB)  
 2264.00 ft (CF)  
 KB to GR/CF: 7.00 ft

Serial #: 8700 Outside  
 Press@RunDepth: 25.26 psig @ 3842.00 ft (KB)  
 Start Date: 2020.03.14 End Date: 2020.03.15  
 Start Time: 23:28:15 End Time: 07:10:06  
 Capacity: 8000.00 psig  
 Last Calib.: 2020.03.15  
 Time On Btmr: 2020.03.15 @ 03:07:36  
 Time Off Btmr: 2020.03.15 @ 05:23:36

TEST COMMENT: 15- IF- 1/4" blow  
 30- IS- No blow  
 30- FF- No blow. Flushed tool. No blow  
 60- FS- No blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.32	104.15	Initial Hydro-static
1	24.00	103.36	Open To Flow (1)
14	23.85	104.25	Shut-In(1)
46	49.49	105.44	End Shut-In(1)
47	24.35	105.49	Open To Flow (2)
75	25.26	106.65	Shut-In(2)
136	65.67	108.69	End Shut-In(2)
136	1957.91	109.44	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
2.00	M	0.03

\* Recovery from multiple tests

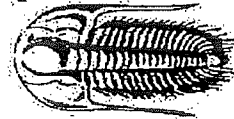
**Gas Rates**

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/D)

Trilobite Testing, Inc

Ref. No: 66223

Printed: 2020.03.15 @ 07:17:16



**DRILL STEM TEST REPORT**

Berexco, LLC 15-11S-23W Trego, KS

Lemke 'A' #3

Job Ticket: 66224 DST# 6

Test Start: 2020.03.15 @ 15:13:27

**GENERAL INFORMATION:**

Formation: Marmaton  
 Deviated: No Whipstock  
 Time Tool Opened: 18:02:33  
 Time Test Ended: 22:28:48  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan Lonsdale  
 Unit No: 73

Interval: 3870.00 ft (KB) To 3890.00 ft (KB) (TVD)  
 Total Depth: 3890.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches-Hole Condition: Fair  
 Reference Elevations: 2271.00 ft (KB)  
 2264.00 ft (CF)  
 KB to GR/CF: 7.00 ft

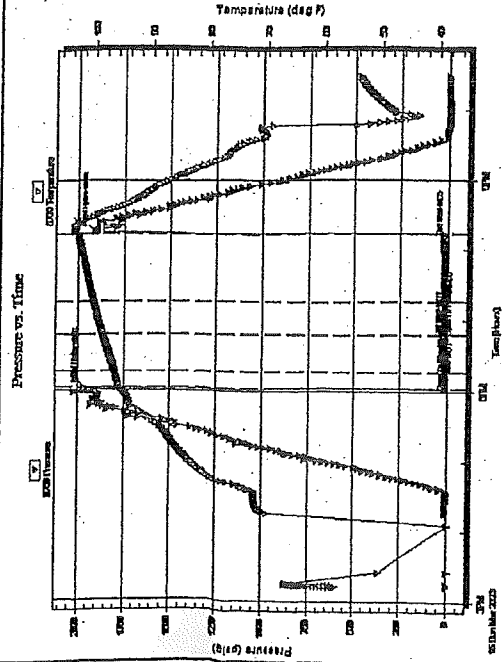
Serial #: 8700 Outside  
 Press@RunDepth: 17.64 psig @ 3871.00 ft (KB)  
 Start Date: 2020.03.15 End Date: 2020.03.15  
 Start Time: 15:13:27 End Time: 22:28:48  
 Capacity: 8000.00 psig  
 Last Calib.: 2020.03.15  
 Time On Btmr: 2020.03.15 @ 18:01:48  
 Time Off Btmr: 2020.03.15 @ 20:15:33

TEST COMMENT: 15- IF- 3/4" blow  
 30- IS- No blow  
 30- FF- Surface blow  
 60- FS- No blow

Pressure vs. Time

**PRESSURE SUMMARY**

TEST COMMENT: 15- IF- 3/4" blow  
 30- IS- No blow  
 30- FF- Surface blow  
 60- FS- No blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.87	95.44	Initial Hydro-static
1	17.03	95.52	Open To Flow (1)
15	17.33	96.45	Shut-In(1)
46	24.28	98.46	End Shut-In(1)
47	16.84	98.53	Open To Flow (2)
75	17.64	100.15	Shut-In(2)
133	25.91	103.02	End Shut-In(2)
134	1905.32	103.63	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
1.00	M	0.01

\* Recovery from multiple tests

**Gas Rates**

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

Tribolite Testing, Inc

Ref. No: 66224

Printed: 2020.03.15 @ 22:36:57