

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	BEREXCO LLC
Well Name	ARDENE 2-17
Doc ID	1424223

Tops

Name	Top	Datum
Anhydrite	3184	103
Base Anhydrite	3219	68
Foraker	3768	-481
Topeka	3994	-707
Oread	4137	-850
Lansing A	4215	-928
Lansing B	4282	-995
Lansing C	4338	-1051
Lansing D	4386	-1099
Lansing E	4436	-1149
Lansing F	4467	-1180
Pawnee	4632	-1345
Fort Scott	4664	-1377
Cherokee	4708	-1421



REMIT TO
 QES Pressure Pumping LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

^R MAY 29 2018 MAIN OFFICE
 P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice # 813197

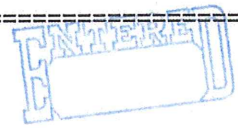
Invoice Date: 05/22/18 Terms: Net 30 Page 1

BEREXCO, LLC
 2020 N. Bramblewood Street
 Wichita KS 67206
 USA
 3162653311

ARDENE 2-17

RECEIVED
 MAY 30 2018

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	35.000	747.50
CE0002	Equipment Mileage Charge - Heavy Equipment	85.000	7.1500	35.000	395.04
CE0710	Cement Delivery Charge	1.000	2,097.3700	35.000	1,363.29
CC5871	Surface Blend II, 2% Gel/3% CaCl	300.000	24.0000	35.000	4,680.00
Subtotal					11,055.12
Discounted Amount					3,869.29
SubTotal After Discount					7,185.83
Amount Due 11,667.12 If paid after 06/21/18					



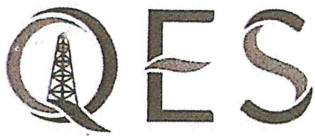
Tax: 397.80
 Total: 7,583.63

8 5/8" surf amt

BCP

RRR

CORP 333 GL DATE: 1805
 GLMAJR: 2105 GLMINR: 1000
 A/C: _____ ENTITY: U99
 VIP # 13005 C BY ck R BY _____
 DESC: Ardene #2-17 / 2058-1000
2090



PRESSURE PUMPING LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

10711
10602

TICKET NUMBER **55158**

LOCATION Oklahoma

FOREMAN Miles Shaw

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # **813197** KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-17-18	1707	Ardene 2-17	17	2 S	37 W	Cherokee
CUSTOMER <u>Berexco</u>			McDonald KS Washon Highway 26 to CR 33 North CR W 1/2 West Juan west into pasture			
MAILING ADDRESS <u>2020 N. Bramblewood Street</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Wichita</u>			<u>753</u>	<u>T. Lewis</u>		
STATE <u>KS</u>			<u>772/T-127</u>	<u>Paul</u>		
ZIP CODE <u>67206</u>						

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 331' CASING SIZE & WEIGHT 5 3/8" 20#
 CASING DEPTH 331' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 70'
 DISPLACEMENT 19.56/5 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meetings and Review on Berexco drilling circulate casing mix 300 sv
Surface blend II Class A cement with 3% calcium zirconium gel display 19.56/5 water shut in
Cement did circulate Celler only

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150. ⁰⁰	1150. ⁰⁰
CE0602	85	MILEAGE	7.15	607.75
CE0710	14.1 tons	Ten miles delivery	1.75	247.35
CE0871	300 sv	Surface blend II	24.00	7200. ⁰⁰
Subtotal				11055.12
less 35% discount				3869.29
Subtotal				7185.83
SALES TAX				397.80
ESTIMATED TOTAL				7583.63

Ravin 3737

AUTHORIZATION

Miles Shaw

TITLE

Tool Pusher

DATE

5/17/2018

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



REMIT TO
QES Pressure Pumping LLC
Dept:970
P.O.Box 4346
Houston, TX 77210-4346

JUN 13 2018

MAIN OFFICE

P.O.Box884
Chanute, KS 66720
620/431-9210, 1-800/467-8676
Fax 620/431-0012

Invoice

Invoice#

813363

Invoice Date: 06/08/18

Terms: Net 30

Page 1

BEREXCO, LLC

2020 N. Bramblewood Street
Wichita KS 67206
USA
3162653311

ARDENE 2-17

RECEIVED
JUN 18 2018

Tax: 245.14

Total: 5,819.89

PTA Cont

BCP

RRR



PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

JM-10842
 PO-16903
 FT-10734

TICKET NUMBER 55105
 LOCATION Oakley, Ks
 FOREMAN Jerry Y

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 813263

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
<u>6-1-18</u>	<u>170.7</u>	<u>Ardene 2-17</u>	<u>17</u>	<u>2S</u>	<u>37W</u>	<u>Cherokee</u>
CUSTOMER <u>Borexco</u>			MCDavid & W to 33 N to W W to Hwy			
MAILING ADDRESS <u>200 N. Bramblewood Street</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Wichita</u> STATE <u>Ks</u> ZIP CODE <u>67206</u>			<u>731</u>	<u>Cory D</u>		
			<u>566</u>	<u>Joel S</u>		
			<u>535</u>	<u>Jerry Y</u>		

JOB TYPE Plug HOLE SIZE 7 7/8 HOLE DEPTH 4800 CASING SIZE & WEIGHT _____
 CASING DEPTH 0 DRILL PIPE 4 1/2 TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting set up on Bredco #2 plug as ordered with 255 sks

60/40 4" 1/2 4" 1/2 seal
50 sks @ 3200'
100 sks @ 2500'
50 sks @ 375'
10 sks @ 40'
15 sks MH 30 sks RH

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<u>CE0451</u>	<u>1</u>	<u>PUMP CHARGE</u>	<u>1900.00</u>	<u>1900.00</u>
<u>CE0002</u>	<u>85</u>	<u>MILEAGE</u>	<u>7.15</u>	<u>607.75</u>
<u>CE0710</u>	<u>10.97</u>	<u>for mileage delivery</u>	<u>1.75</u>	<u>1631.79</u>
<u>CE5829</u>	<u>255 sks</u>	<u>1/2 blend V</u>	<u>16.00</u>	<u>4080.00</u>
<u>CE6075</u>	<u>64 #</u>	<u>Flow seal</u>	<u>3.00</u>	<u>192.00</u>
<u>CE8228</u>	<u>1</u>	<u>8 5/8 wooden plug</u>	<u>165.00</u>	<u>165.00</u>
			<u>Subtotal</u>	<u>8576.54</u>
			<u>-35%</u>	<u>3001.79</u>
			<u>Subtotal</u>	<u>5574.75</u>
			<u>8.5%</u>	<u>SALES TAX</u>
				<u>245.14</u>
			<u>ESTIMATED TOTAL</u>	<u>5819.89</u>

Ravin 8737

AUTHORIZATION [Signature] TITLE Operations Manager DATE 6/1/2018

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC

17/2s/37w Cheyenne KS

2020 N. Bramblewood
Wichita, KS 67206

Ardene #2-17

Job Ticket: 63708

DST#: 1

ATTN: Bryan Bynog

Test Start: 2018.05.25 @ 00:04:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:58:00

Time Test Ended: 08:11:45

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 4080.00 ft (KB) To 4150.00 ft (KB) (TVD)

Reference Elevations: 3287.00 ft (KB)

Total Depth: 4150.00 ft (KB) (TVD)

3279.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8017 Outside

Press@RunDepth: 17.44 psig @ 4081.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.25 End Date: 2018.05.25

Last Calib.: 2018.05.25

Start Time: 00:04:05 End Time: 08:11:44

Time On Btm: 2018.05.25 @ 02:57:45

Time Off Btm: 2018.05.25 @ 06:06:15

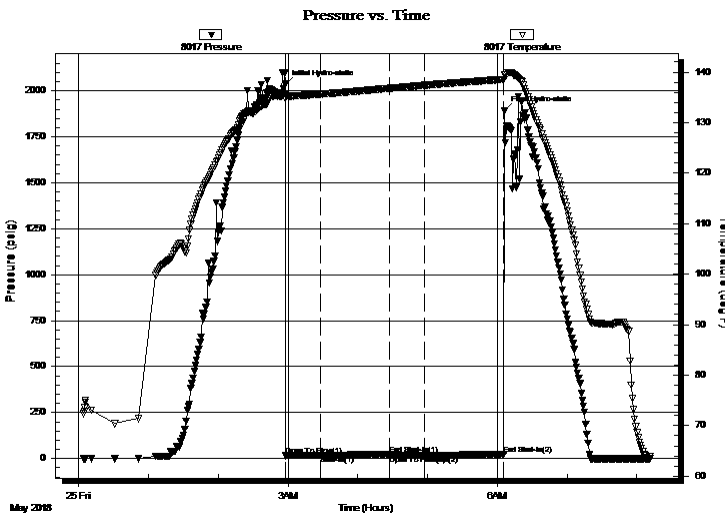
TEST COMMENT: 30 - IF: Blow built to 1/4", died back, dead at 30 min.

60 - IS: No blow

30 - FF: No blow

60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.57	135.76	Initial Hydro-static
1	15.28	134.71	Open To Flow (1)
30	16.89	135.64	Shut-In(1)
90	24.11	136.81	End Shut-In(1)
90	15.90	136.81	Open To Flow (2)
120	17.44	137.41	Shut-In(2)
188	23.48	138.59	End Shut-In(2)
189	1890.36	139.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w/oil spots 97%m, 3%o	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC

17/2s/37w Cheyenne KS

2020 N. Bramblewood
Wichita, KS 67206

Ardene #2-17

Job Ticket: 63708

DST#: 1

ATTN: Bryan Bynog

Test Start: 2018.05.25 @ 00:04:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w /oil spots 97%w, 3%o	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

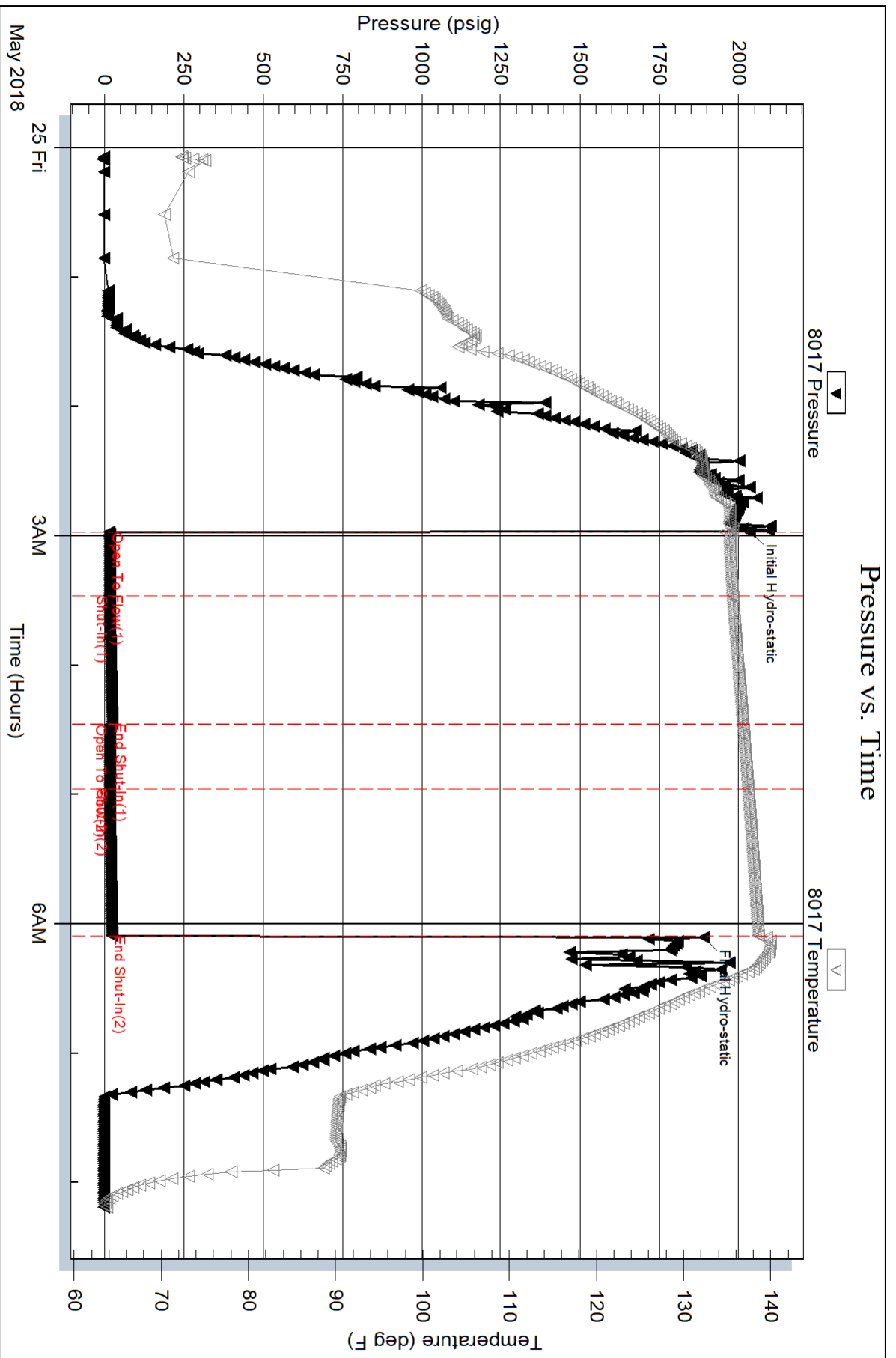
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



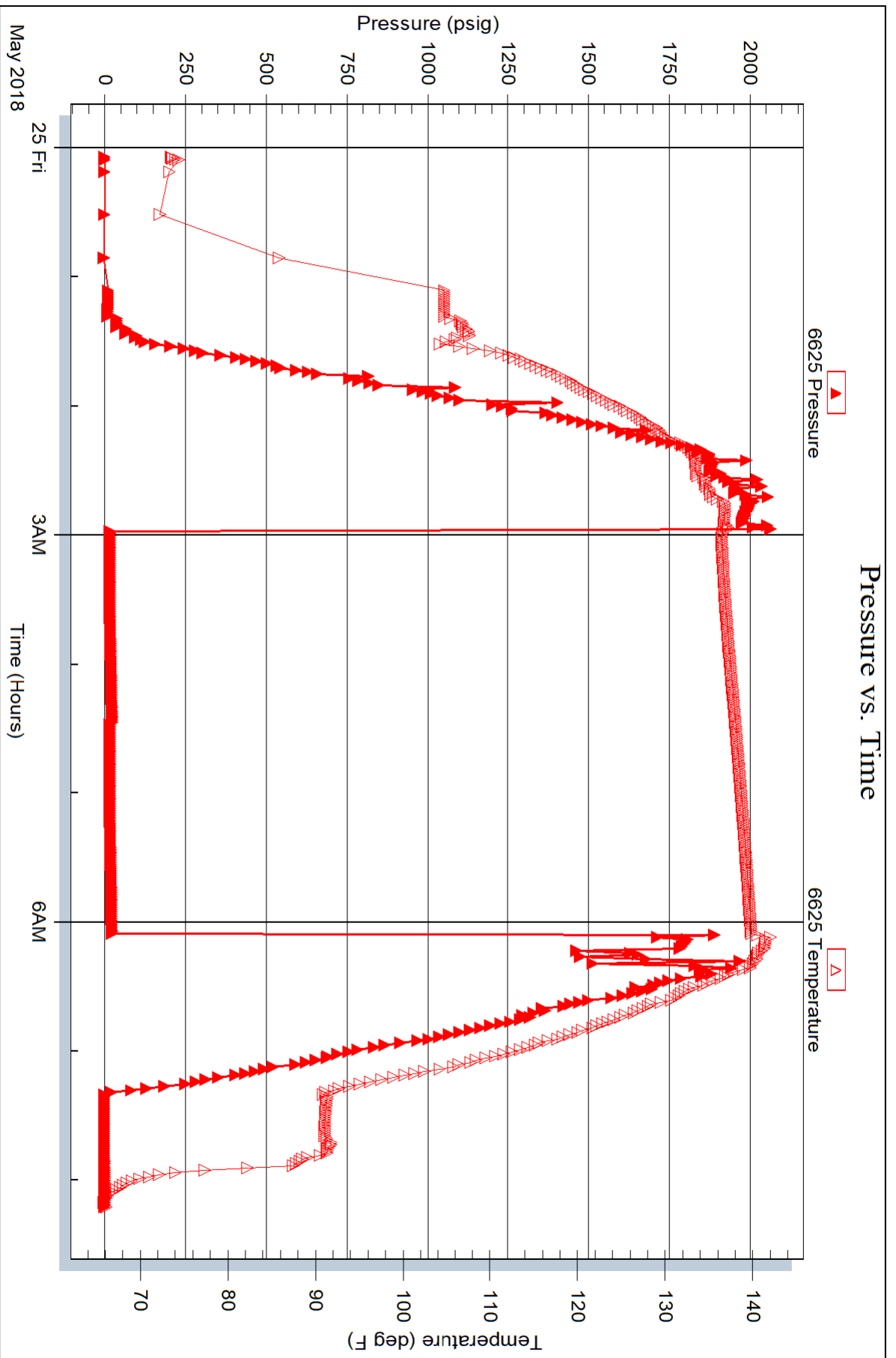
Serial #: 6625

Inside

Berexco, LLC

Ardene#2-17

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Bryan Bynog

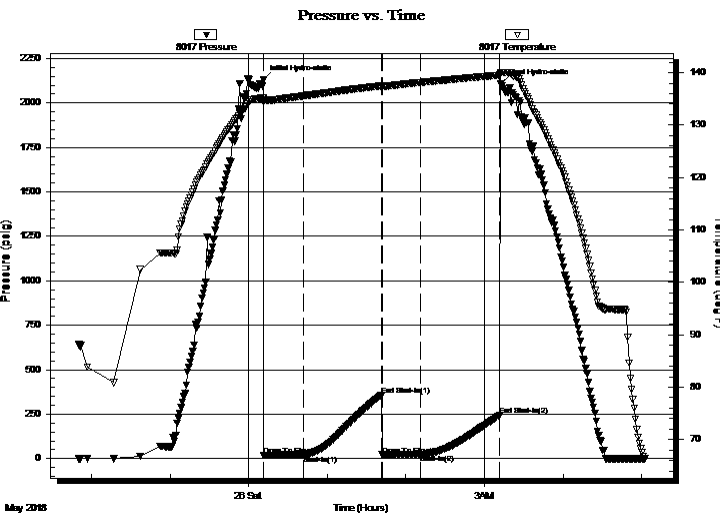
17/2s/37w Cheyenne KS
Ardene #2-17
 Job Ticket: 63709 **DST#: 2**
 Test Start: 2018.05.25 @ 21:50:00

GENERAL INFORMATION:

Formation: **LKC "A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:11:15
 Time Test Ended: 05:03:00
 Interval: **4160.00 ft (KB) To 4260.00 ft (KB) (TVD)**
 Total Depth: 4260.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 3287.00 ft (KB)
 3279.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8017 Outside
 Press@RunDepth: 22.46 psig @ 4161.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.05.25 End Date: 2018.05.26 Last Calib.: 2018.05.26
 Start Time: 21:50:05 End Time: 05:02:59 Time On Btm: 2018.05.26 @ 00:11:00
 Time Off Btm: 2018.05.26 @ 03:12:30

TEST COMMENT: 30 - IF: 1/4" Blow at open, died back, dead at 14 min.
 60 - IS: No blow
 30 - FF: No blow
 60 - FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2128.46	135.15	Initial Hydro-static
1	18.29	134.53	Open To Flow (1)
31	20.57	135.56	Shut-In(1)
90	356.48	137.47	End Shut-In(1)
91	20.93	137.38	Open To Flow (2)
120	22.46	138.13	Shut-In(2)
181	242.50	139.51	End Shut-In(2)
182	2109.33	140.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w/oil spots 99%m, 1%o	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Bryan Bynog

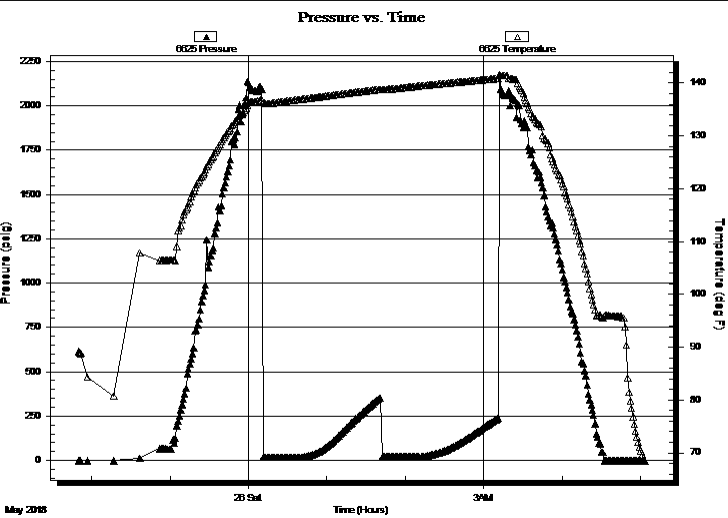
17/2s/37w Cheyenne KS
Ardene #2-17
 Job Ticket: 63709 **DST#: 2**
 Test Start: 2018.05.25 @ 21:50:00

GENERAL INFORMATION:

Formation: LKC "A"			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 00:11:15		Tester: James Winder	
Time Test Ended: 05:03:00		Unit No: 83	
Interval: 4160.00 ft (KB) To 4260.00 ft (KB) (TVD)		Reference Elevations: 3287.00 ft (KB)	
Total Depth: 4260.00 ft (KB) (TVD)		3279.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft	

Serial #: 6625	Inside				
Press@RunDepth:	psig @	4161.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2018.05.25	End Date:	2018.05.26	Last Calib.:	2018.05.26
Start Time:	21:50:05	End Time:	05:03:29	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 30 - IF: 1/4" Blow at open, died back, dead at 14 min.
 60 - IS: No blow
 30 - FF: No blow
 60 - FS: No blow

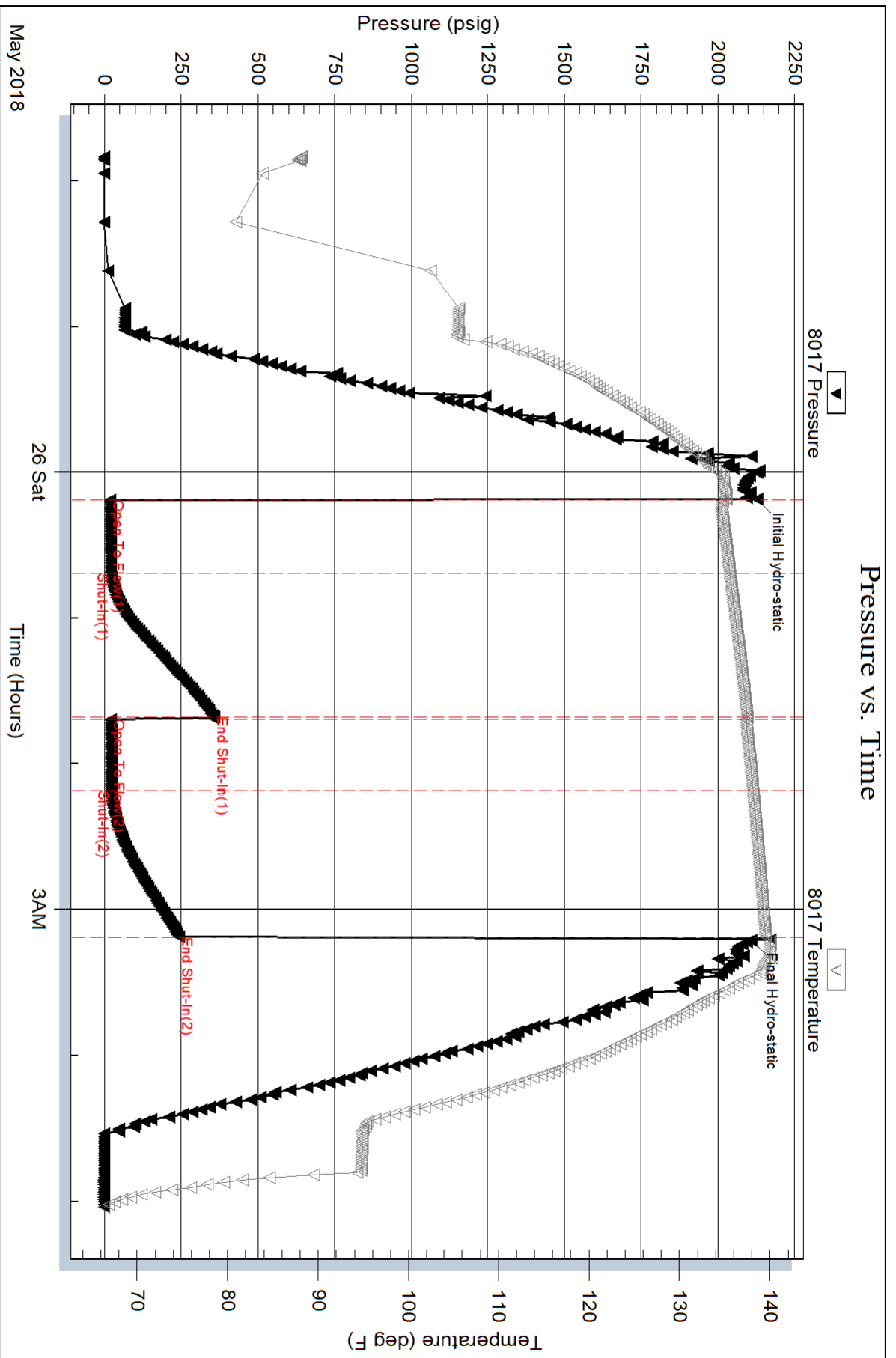


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud w/oil spots 99%m, 1%o	0.02

* Recovery from multiple tests

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



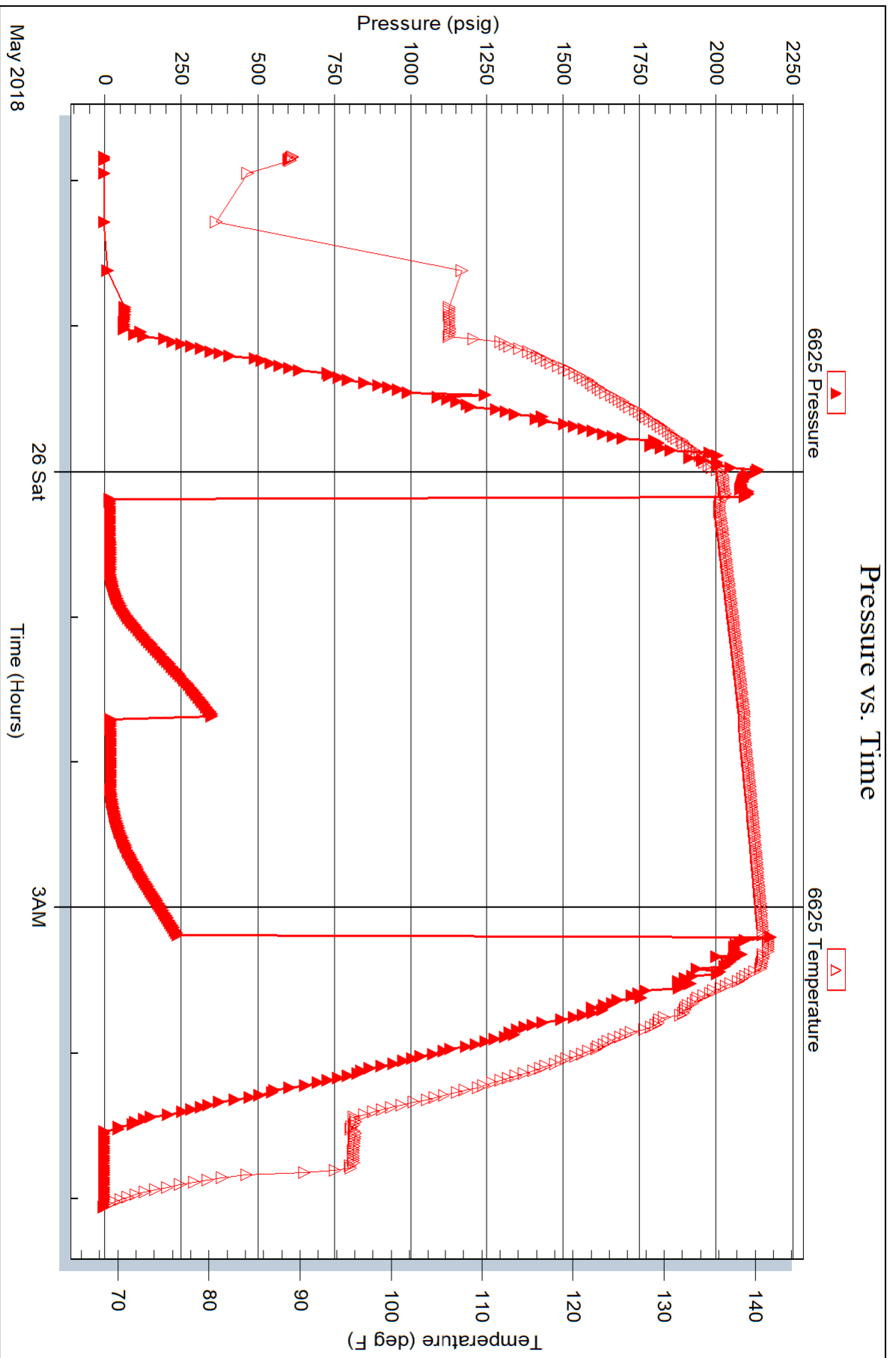
Serial #: 6625

Inside

Berexco, LLC

Ardene#2-17

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63709

Printed: 2018.05.26 @ 06:52:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Bryan Bynog

17/2s/37w Cheyenne KS
Ardene #2-17
 Job Ticket: 63710 **DST#: 3**
 Test Start: 2018.05.26 @ 16:08:00

GENERAL INFORMATION:

Formation: **LKC "B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:29:30
 Time Test Ended: 00:12:45
Interval: 4240.00 ft (KB) To 4310.00 ft (KB) (TVD)
 Total Depth: 4310.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 3287.00 ft (KB)
 3279.00 ft (CF)
 KB to GR/CF: 8.00 ft

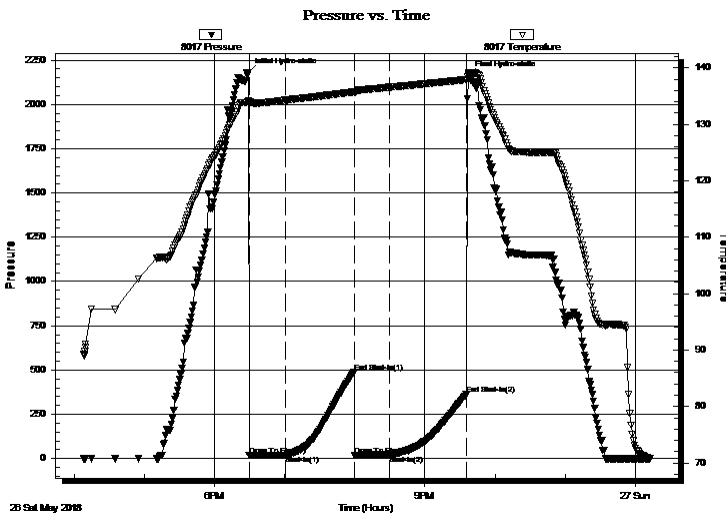
Serial #: 8017

Outside

Press@RunDepth: 20.92 psig @ 4241.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.05.26 End Date: 2018.05.27 Last Calib.: 2018.05.27
 Start Time: 16:08:05 End Time: 00:12:44 Time On Btm: 2018.05.26 @ 18:29:15
 Time Off Btm: 2018.05.26 @ 21:37:30

TEST COMMENT: 30 - IF: Blow built to 1/4", died back, dead at 15 min.
 60 - IS: No blow
 30 - FF: No blow
 60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.75	134.20	Initial Hydro-static
1	17.35	133.44	Open To Flow (1)
32	19.56	134.27	Shut-In(1)
90	486.67	135.73	End Shut-In(1)
91	19.64	135.59	Open To Flow (2)
121	20.92	136.56	Shut-In(2)
187	365.19	137.91	End Shut-In(2)
189	2163.18	139.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 94% m, 6% o	0.02

* 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

17/2s/37w Cheyenne KS

2020 N. Bramblewood
Wichita, KS 67206

Ardene #2-17

Job Ticket: 63710

DST#: 3

ATTN: Bryan Bynog

Test Start: 2018.05.26 @ 16:08:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 94% m, 6% o	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

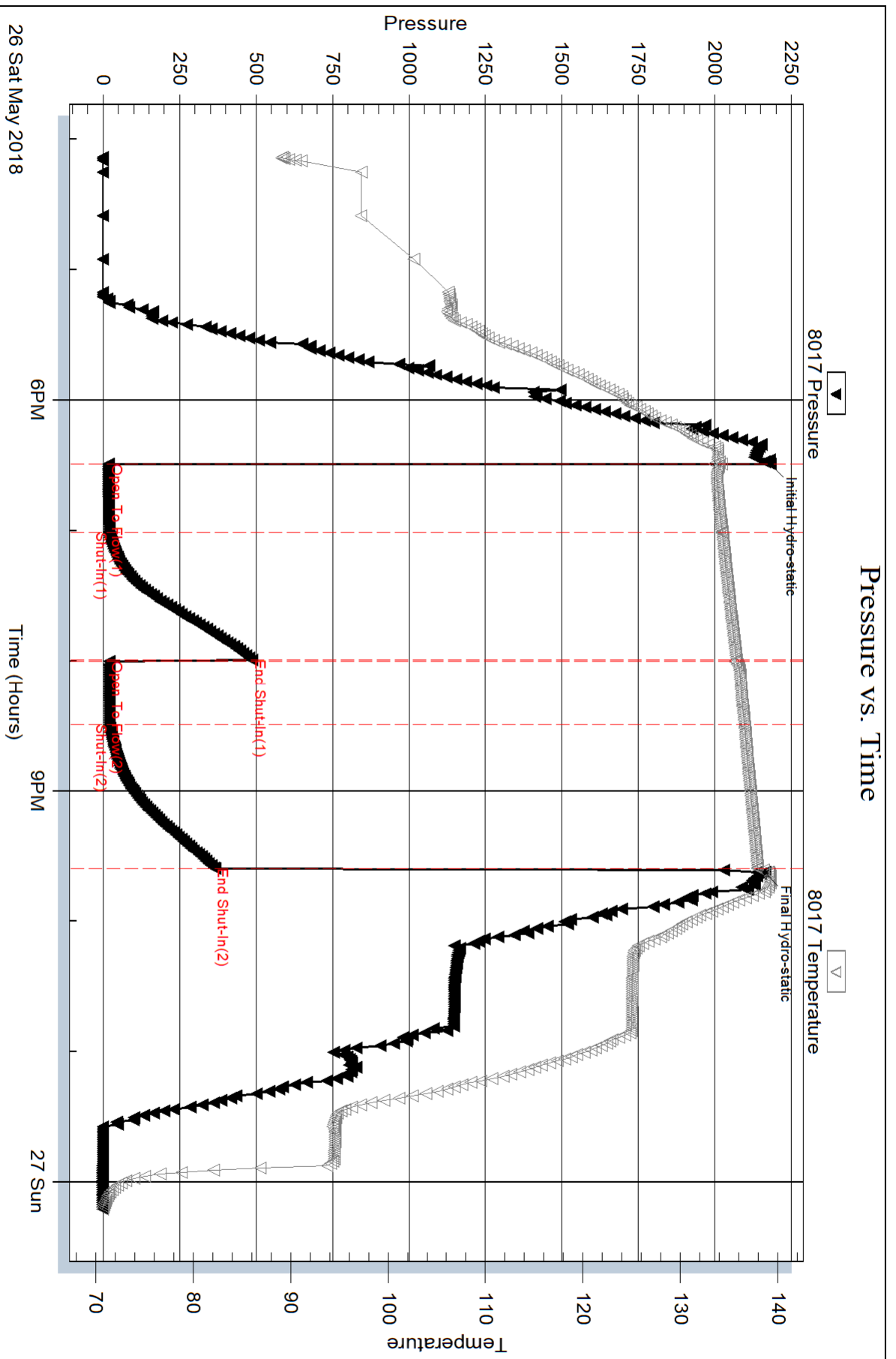
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



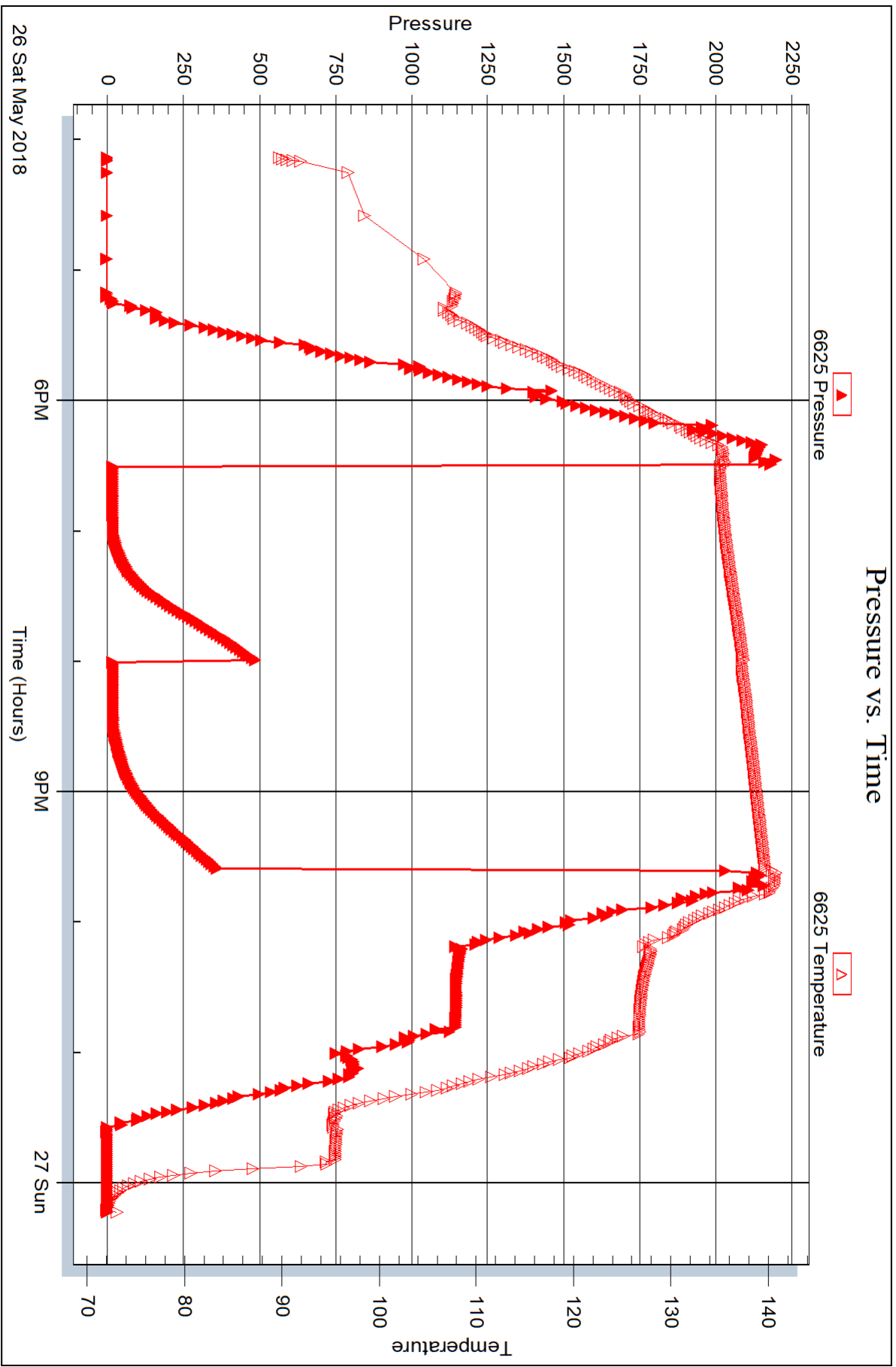
Serial #: 6625

Inside

Berexco, LLC

Ardene#2-17

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC

17/2s/37w Cheyenne KS

2020 N. Bramblewood
Wichita, KS 67206

Ardene #2-17

Job Ticket: 63711

DST#: 4

ATTN: Bryan Bynog

Test Start: 2018.05.27 @ 13:38:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:28:45

Time Test Ended: 22:12:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4290.00 ft (KB) To 4360.00 ft (KB) (TVD)

Total Depth: 4360.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3287.00 ft (KB)

3279.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8017 Outside

Press@RunDepth: 369.46 psig @ 4291.00 ft (KB)

Start Date: 2018.05.27

End Date: 2018.05.27

Start Time: 13:38:05

End Time: 22:12:00

Capacity: 8000.00 psig

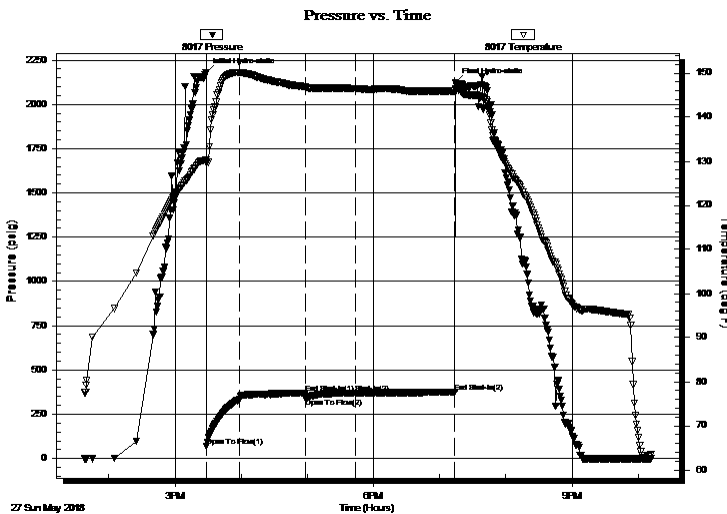
Last Calib.: 2018.05.27

Time On Btm: 2018.05.27 @ 15:28:30

Time Off Btm: 2018.05.27 @ 19:14:15

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 3 1/2 min.
60 - IS: No blow back
45 - FF: Blow built to 4 1/2", died back to 1 1/2" at close
90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2178.72	130.34	Initial Hydro-static
1	68.90	129.61	Open To Flow (1)
31	333.60	150.09	Shut-In(1)
90	369.13	146.81	End Shut-In(1)
91	340.52	146.78	Open To Flow (2)
135	369.46	146.50	Shut-In(2)
226	373.63	145.91	End Shut-In(2)
226	2121.56	146.51	Final Hydro-static

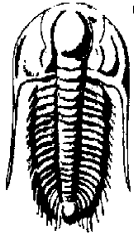
Recovery

Length (ft)	Description	Volume (bbl)
115.00	WCM w/trace oil 80%m, 20%w	0.57
315.00	MCW w/trace oil 77%w, 23%m	4.42
370.00	WCM w/trace oil 65%m, 35%w	5.19

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

17/2s/37w Cheyenne KS

2020 N. Bramblewood
Wichita, KS 67206

Ardene #2-17

Job Ticket: 63711

DST#: 4

ATTN: Bryan Bynog

Test Start: 2018.05.27 @ 13:38:00

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:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	WCM w/trace oil 80%m, 20%w	0.566
315.00	MCW w/trace oil 77%w, 23%m	4.419
370.00	WCM w/trace oil 65%m, 35%w	5.190

Total Length: 800.00 ft Total Volume: 10.175 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

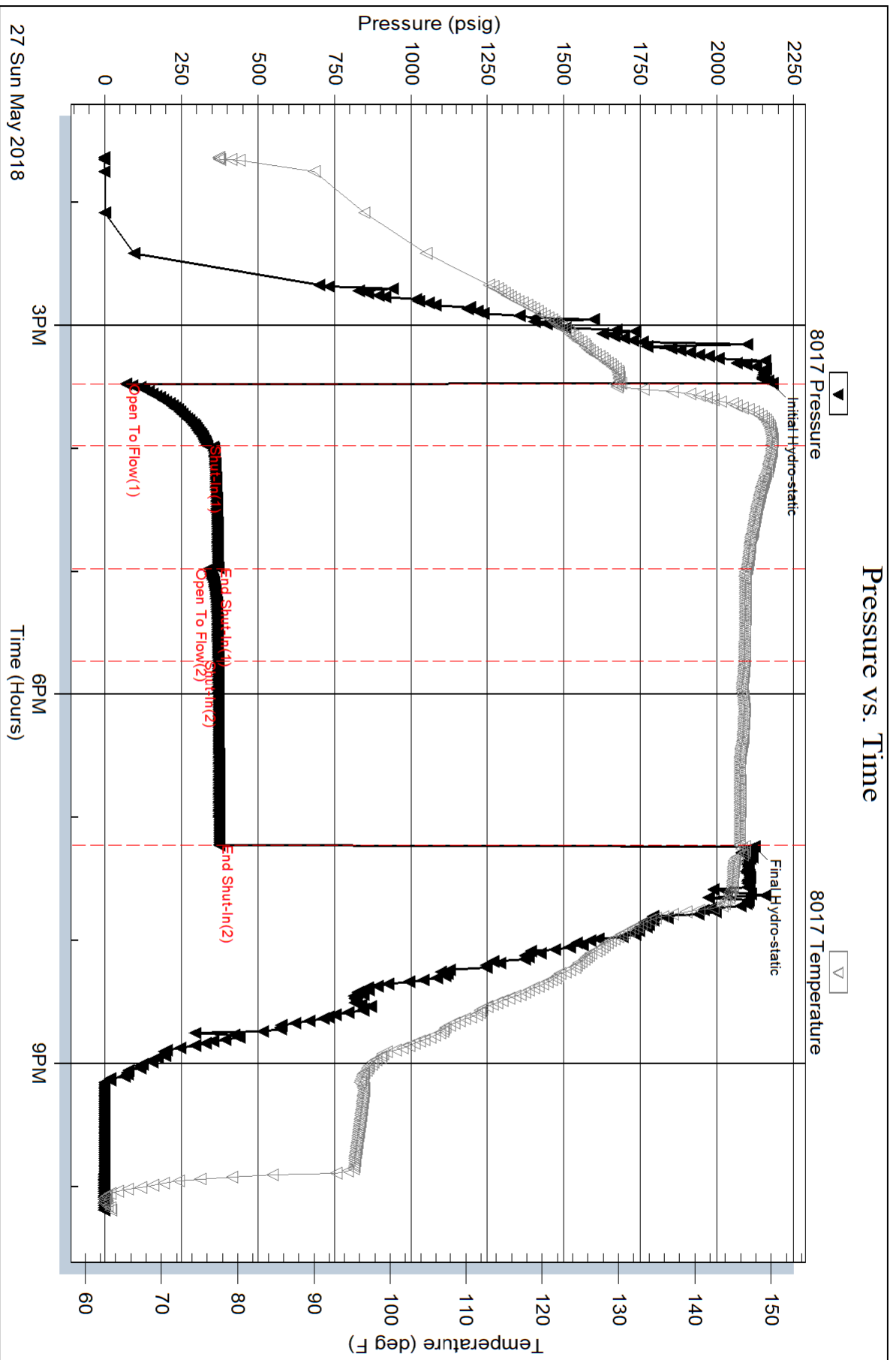
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .238 ohms @ 67.5 deg F Chlorides = 31,000 ppm

Pressure vs. Time



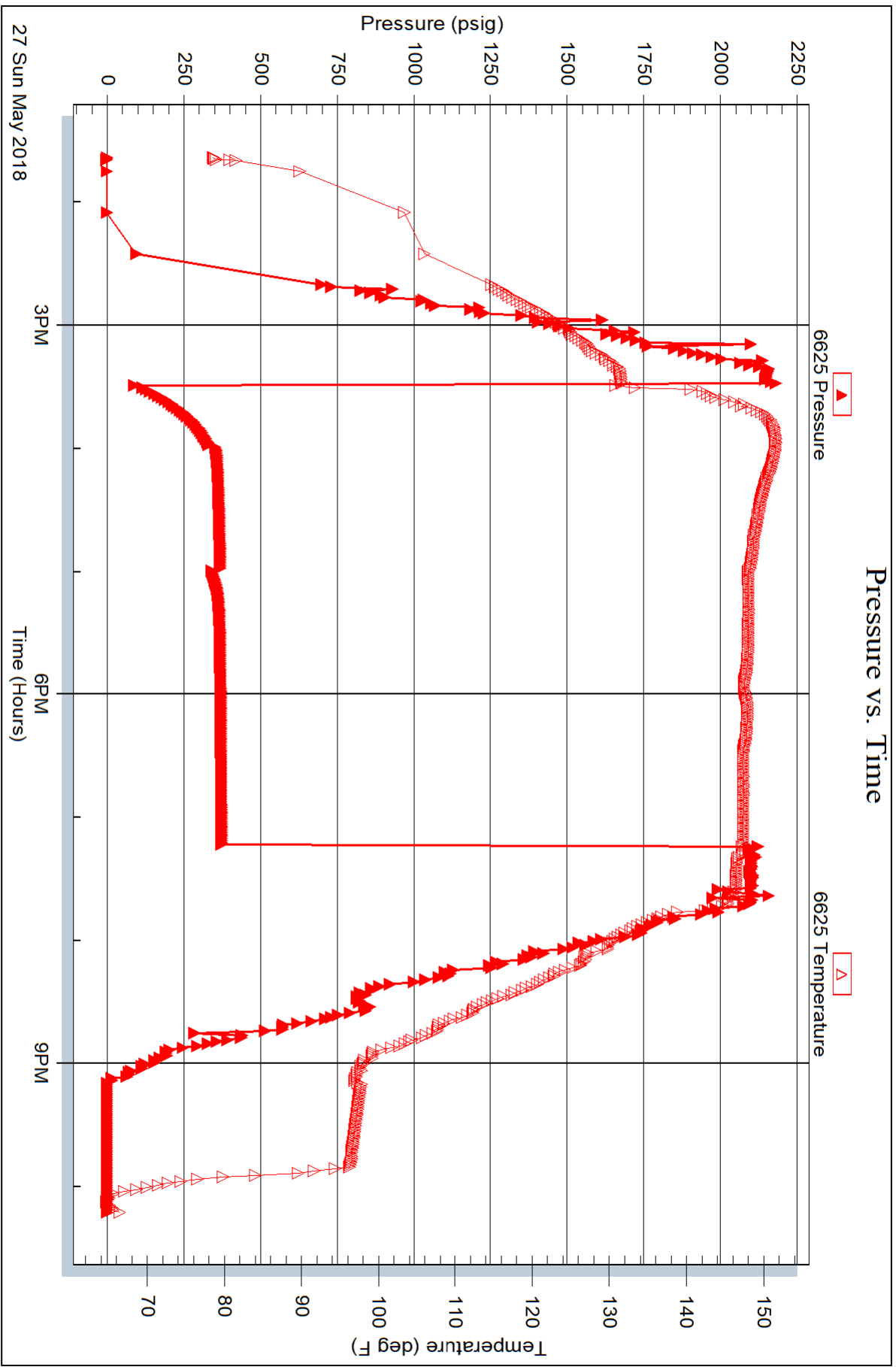
Serial #: 6625

Inside

Berexco, LLC

Ardene#2-17

DST Test Number: 4





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Bryan Bynog

17/2s/37w Cheyenne KS
Ardene #2-17
 Job Ticket: 63712 **DST#: 5**
 Test Start: 2018.05.28 @ 09:07:00

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:46:00
 Time Test Ended: 18:20:30
 Interval: **4350.00 ft (KB) To 4400.00 ft (KB) (TVD)**
 Total Depth: 4400.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 3287.00 ft (KB)
 3279.00 ft (CF)
 KB to GR/CF: 8.00 ft

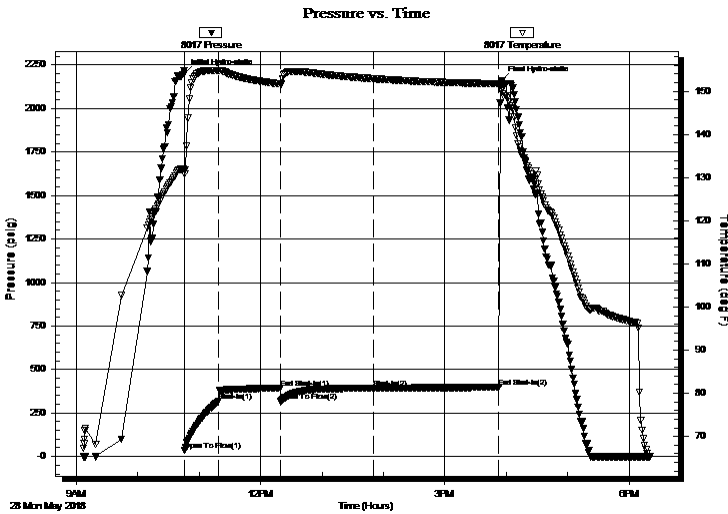
Serial #: 8017

Outside

Press@RunDepth: 392.67 psig @ 4351.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.05.28 End Date: 2018.05.28 Last Calib.: 2018.05.28
 Start Time: 09:07:05 End Time: 18:20:30 Time On Btm: 2018.05.28 @ 10:45:45
 Time Off Btm: 2018.05.28 @ 15:55:30

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 5 min.
 60 - IS: No blow back
 90 - FF: Blow built to BOB at 33 min., died back to 10" at close
 120 - FSI: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.16	131.72	Initial Hydro-static
1	36.80	130.81	Open To Flow (1)
34	317.42	154.82	Shut-In(1)
94	392.38	151.70	End Shut-In(1)
94	318.40	151.66	Open To Flow (2)
185	392.67	152.90	Shut-In(2)
307	397.11	151.74	End Shut-In(2)
310	2159.38	150.01	Final Hydro-static

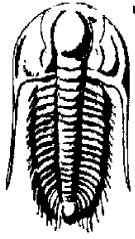
Recovery

Length (ft)	Description	Volume (bbl)
680.00	Water 98%w , 2%m	8.49
170.00	MCW w/trace oil 71%w , 29%m	2.38

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC
2020 N. Bramblewood
Wichita, KS 67206
ATTN: Bryan Bynog

17/2s/37w Cheyenne KS
Ardene #2-17
Job Ticket: 63712 **DST#: 5**
Test Start: 2018.05.28 @ 09:07:00

GENERAL INFORMATION:

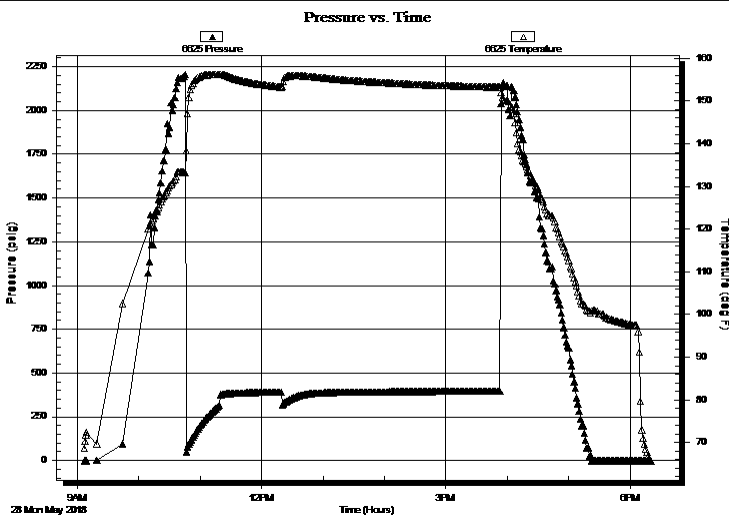
Formation:	LKC "D"			Test Type:	Conventional Bottom Hole (Reset)	
Deviated:	No	Whipstock:	ft (KB)	Tester:	James Winder	
Time Tool Opened:	10:46:00			Unit No:	83	
Time Test Ended:	18:20:30			Reference Elevations:	3287.00 ft (KB)	3279.00 ft (CF)
Interval:	4350.00 ft (KB) To 4400.00 ft (KB) (TVD)			KB to GR/CF:	8.00 ft	
Total Depth:	4400.00 ft (KB) (TVD)					
Hole Diameter:	7.88 inches	Hole Condition:	Fair			

Serial #: 6625

Inside

Press@RunDepth:	psig @ 4351.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2018.05.28	End Date:	2018.05.28
Start Time:	09:07:05	End Time:	18:20:45
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 5 min.
60 - IS: No blow back
90 - FF: Blow built to BOB at 33 min., died back to 10" at close
120 - FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
680.00	Water 98%w , 2%m	8.49
170.00	MCW w/trace oil 71%w , 29%m	2.38

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

17/2s/37w Cheyenne KS

2020 N. Bramblewood
Wichita, KS 67206

Ardene #2-17

Job Ticket: 63712

DST#: 5

ATTN: Bryan Bynog

Test Start: 2018.05.28 @ 09:07:00

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:

19000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
680.00	Water 98%w , 2%m	8.491
170.00	MCW w/trace oil 71%w , 29%m	2.385

Total Length: 850.00 ft Total Volume: 10.876 bbl

Num Fluid Samples: 0

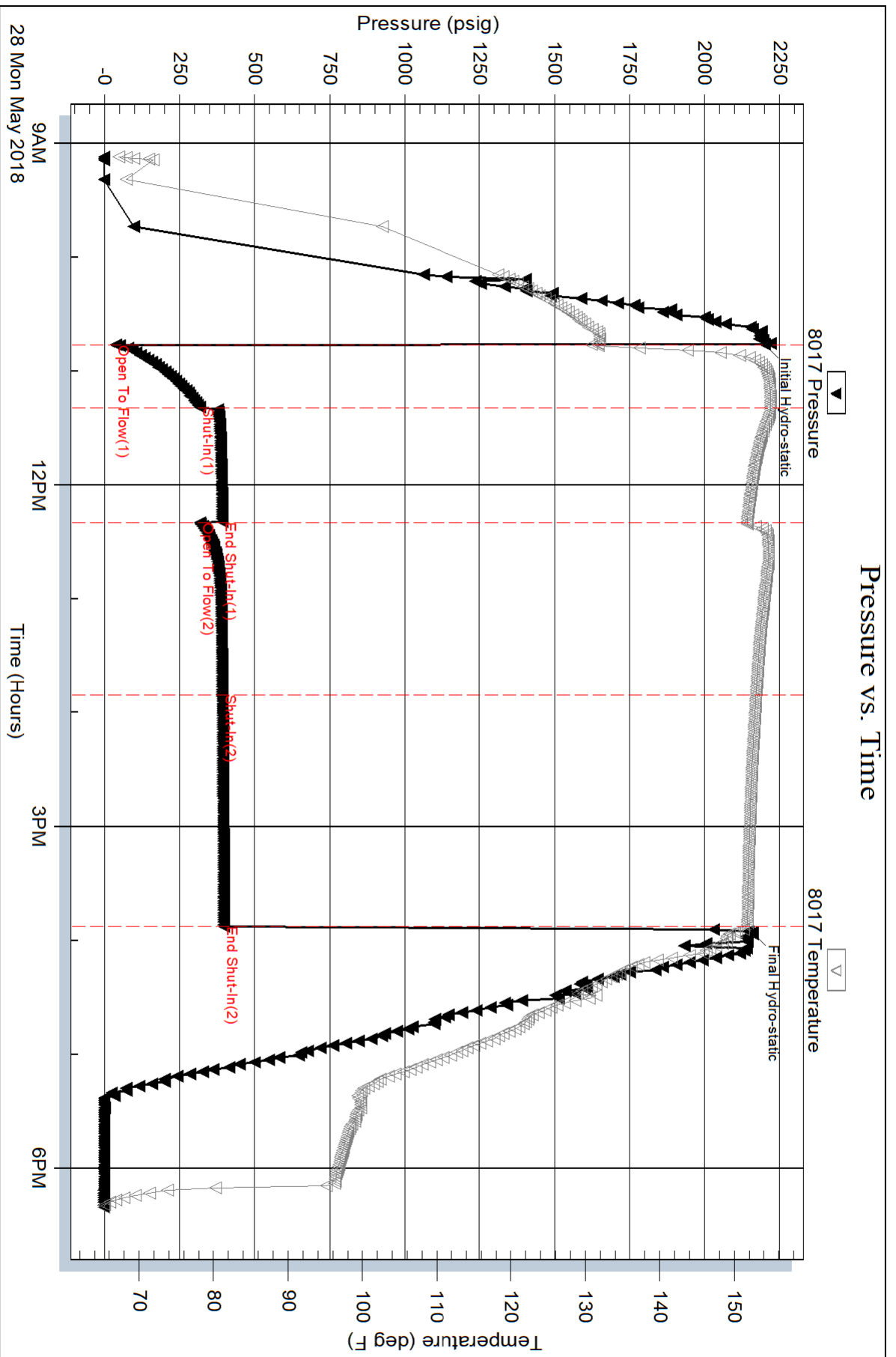
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .363 ohms @ 68.5 deg F Chlorides = 19,000 ppm



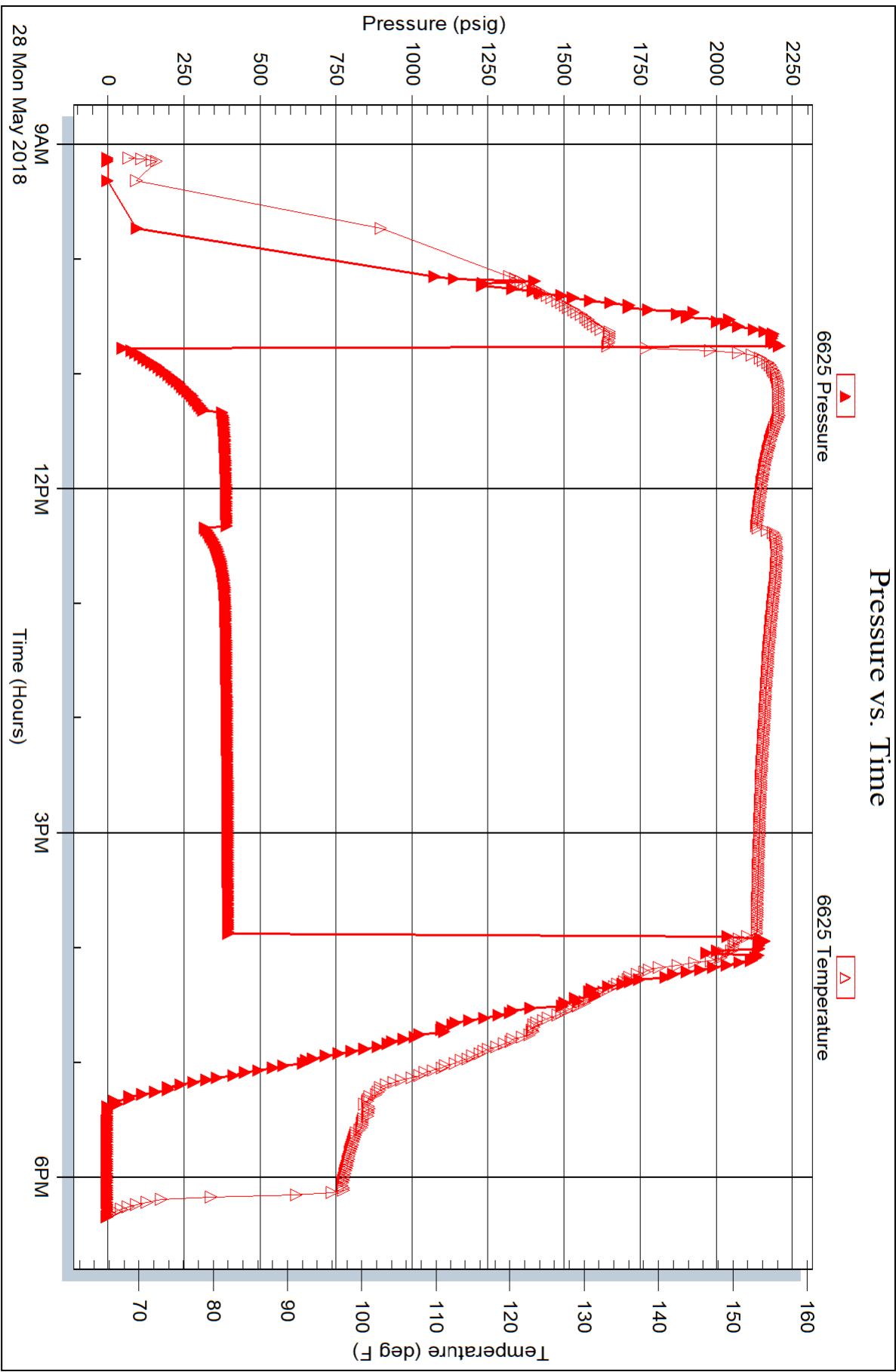
Serial #: 6625

Inside

Berexco, LLC

Ardene#2-17

DST Test Number: 5





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Bryan Bynog

17/2s/37w Cheyenne KS
Ardene #2-17
 Job Ticket: 63713 **DST#: 6**
 Test Start: 2018.05.29 @ 04:31:00

GENERAL INFORMATION:

Formation: **LKC "E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:24:45
 Time Test Ended: 12:52:30
 Interval: **4395.00 ft (KB) To 4450.00 ft (KB) (TVD)**
 Total Depth: 4450.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 3287.00 ft (KB)
 3279.00 ft (CF)
 KB to GR/CF: 8.00 ft

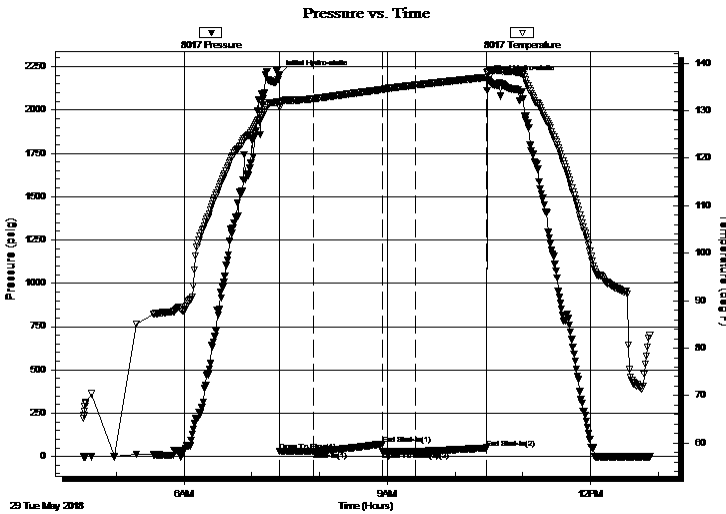
Serial #: 8017

Outside

Press@RunDepth: 30.73 psig @ 4396.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.05.29 End Date: 2018.05.29 Last Calib.: 2018.05.29
 Start Time: 04:31:05 End Time: 12:52:29 Time On Btm: 2018.05.29 @ 07:24:30
 Time Off Btm: 2018.05.29 @ 10:29:00

TEST COMMENT: 30 - IF: 1" Surge blow at open, built slightly then died back, dead at 28 min.
 60 - IS: No blow
 30 - FF: No blow
 60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.18	131.70	Initial Hydro-static
1	28.56	130.77	Open To Flow (1)
30	29.91	132.52	Shut-In(1)
91	72.11	134.45	End Shut-In(1)
92	28.97	134.42	Open To Flow (2)
121	30.73	135.39	Shut-In(2)
184	49.63	137.03	End Shut-In(2)
185	2172.68	137.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud w /trace of Oil 100%m	0.22

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Bryan Bynog

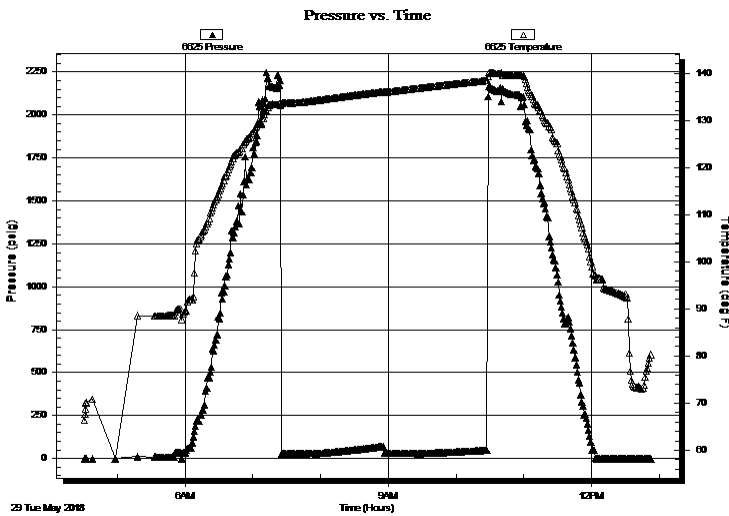
17/2s/37w Cheyenne KS
Ardene #2-17
 Job Ticket: 63713 **DST#: 6**
 Test Start: 2018.05.29 @ 04:31:00

GENERAL INFORMATION:

Formation: **LKC "E"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:24:45 Tester: James Winder
 Time Test Ended: 12:52:30 Unit No: 83
 Interval: **4395.00 ft (KB) To 4450.00 ft (KB) (TVD)** Reference Elevations: 3287.00 ft (KB)
 Total Depth: 4450.00 ft (KB) (TVD) 3279.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6625 Inside
 Press@RunDepth: psig @ 4396.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.05.29 End Date: 2018.05.29 Last Calib.: 2018.05.29
 Start Time: 04:31:05 End Time: 12:52:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF: 1" Surge blow at open, built slightly then died back, dead at 28 min.
 60 - IS: No blow
 30 - FF: No blow
 60 - FS: No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud w /trace of Oil 100% m	0.22

* 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

17/2s/37w Cheyenne KS

2020 N. Bramblewood
Wichita, KS 67206

Ardene #2-17

Job Ticket: 63713

DST#: 6

ATTN: Bryan Bynog

Test Start: 2018.05.29 @ 04:31:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud w /trace of Oil 100% _m	0.221

Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0

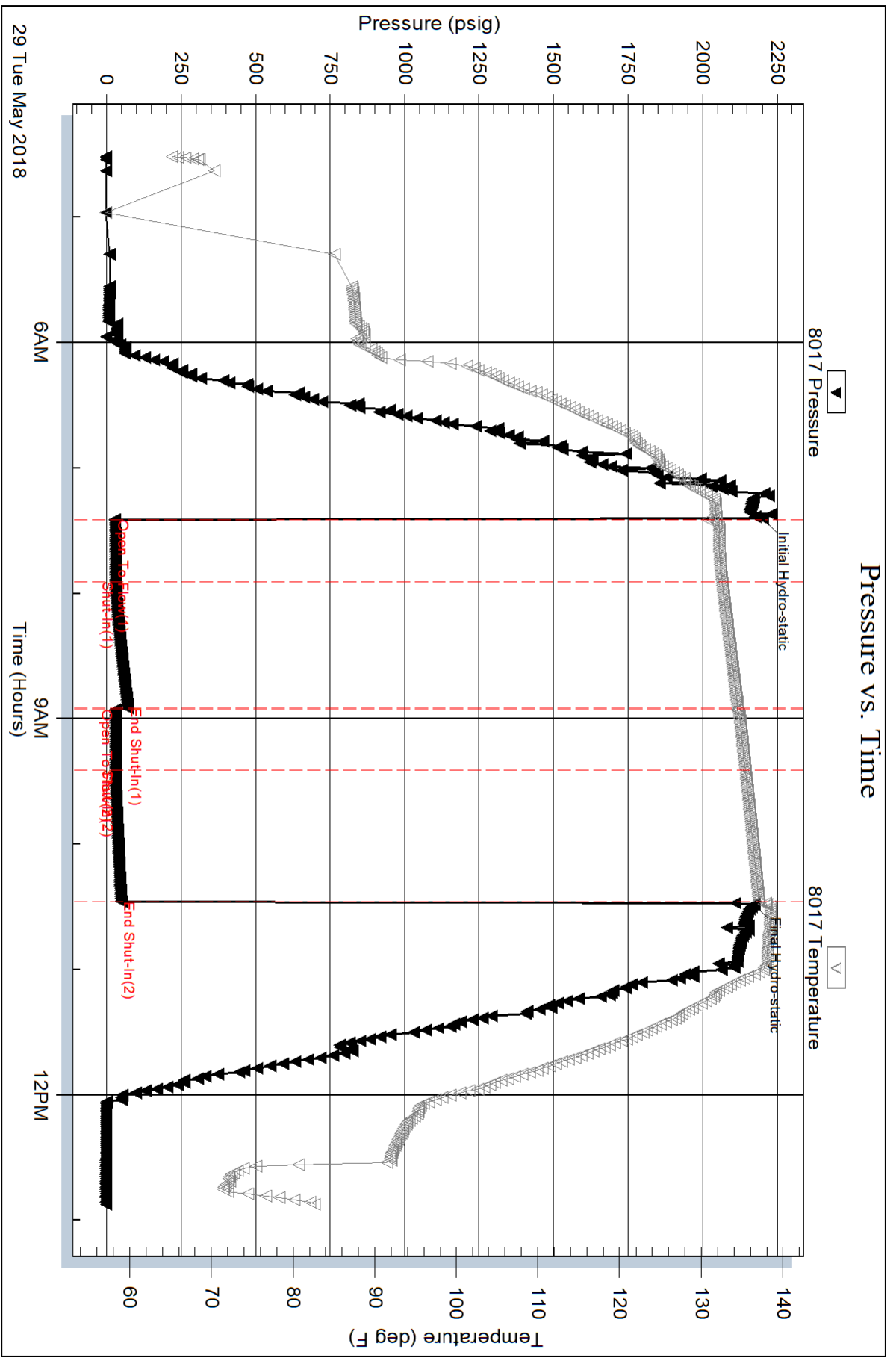
Num Gas Bombs: 0

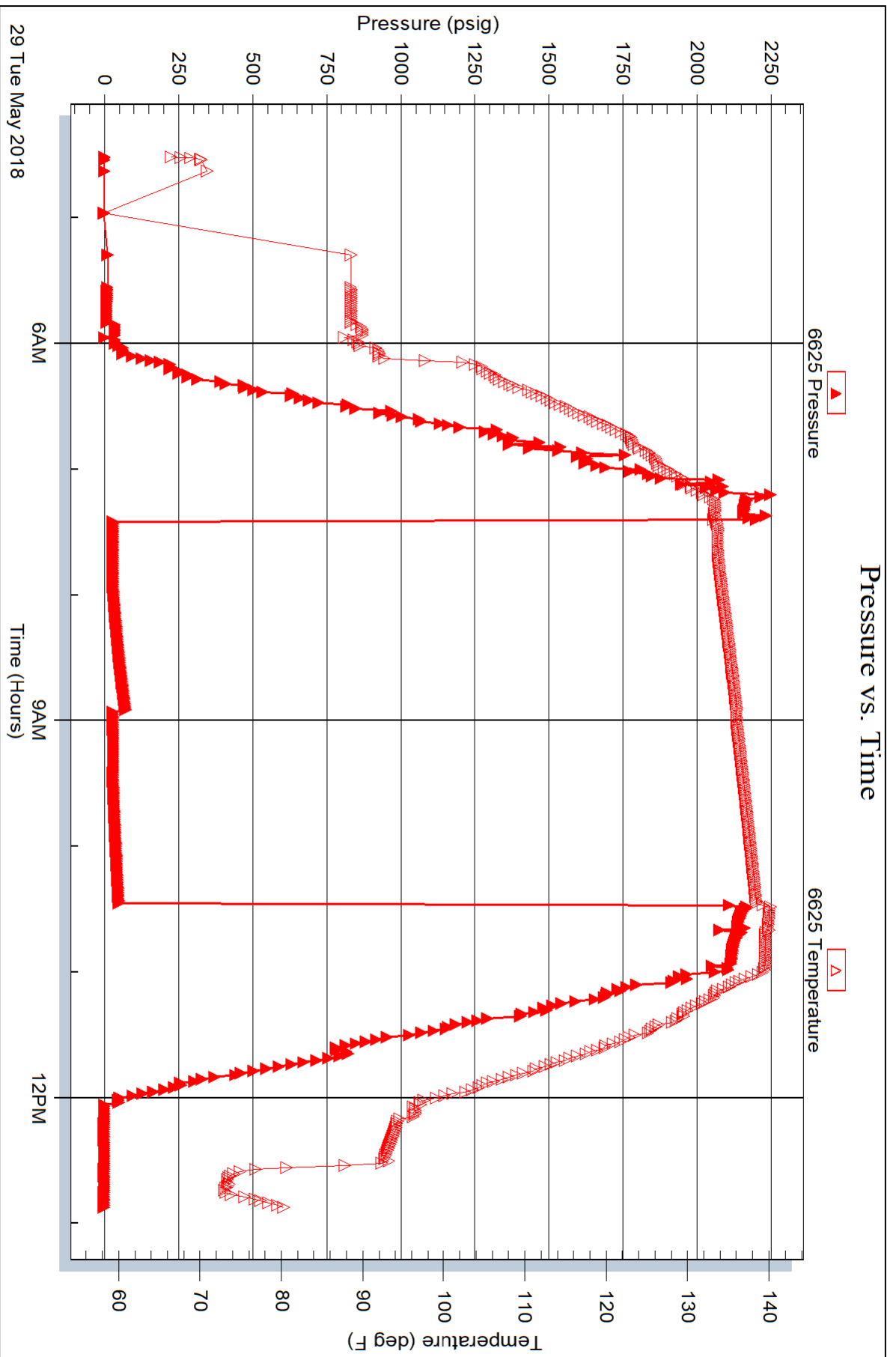
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC
2020 N. Bramblewood
Wichita, KS 67206
ATTN: Bryan Bynog

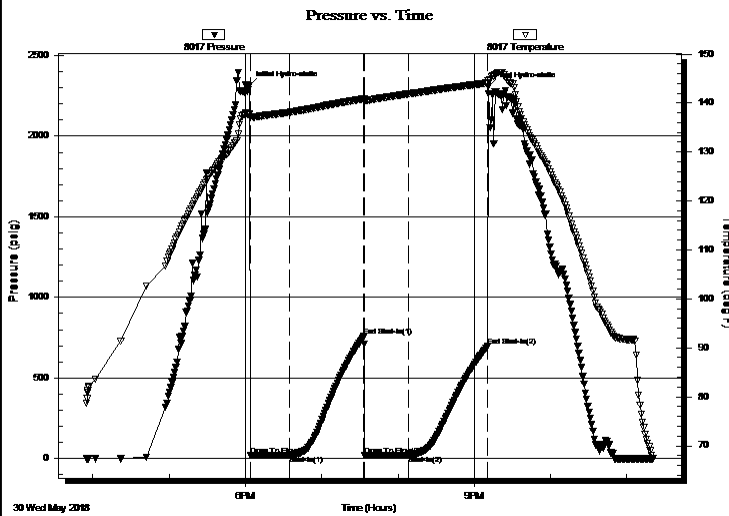
17/2s/37w Cheyenne KS
Ardene #2-17
Job Ticket: 63714 **DST#: 7**
Test Start: 2018.05.30 @ 15:55:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:03:45
Time Test Ended: 23:20:45
Interval: **4605.00 ft (KB) To 4643.00 ft (KB) (TVD)**
Total Depth: 4643.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: 83
Reference Elevations: 3287.00 ft (KB)
3279.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8017 Outside
Press@RunDepth: 21.46 psig @ 4606.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.05.30 End Date: 2018.05.30 Last Calib.: 2018.05.30
Start Time: 15:55:05 End Time: 23:20:44 Time On Btm: 2018.05.30 @ 18:03:15
Time Off Btm: 2018.05.30 @ 21:10:45

TEST COMMENT: 30 - IF: 1/8" Blow at open, died back, dead at 11 min.
60 - IS: No blow
30 - FF: No blow
60 - FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.55	137.70	Initial Hydro-static
1	18.68	136.98	Open To Flow (1)
31	20.12	138.10	Shut-In(1)
90	756.87	140.85	End Shut-In(1)
91	20.54	140.56	Open To Flow (2)
125	21.46	141.85	Shut-In(2)
187	694.77	144.07	End Shut-In(2)
188	2306.72	144.53	Final Hydro-static

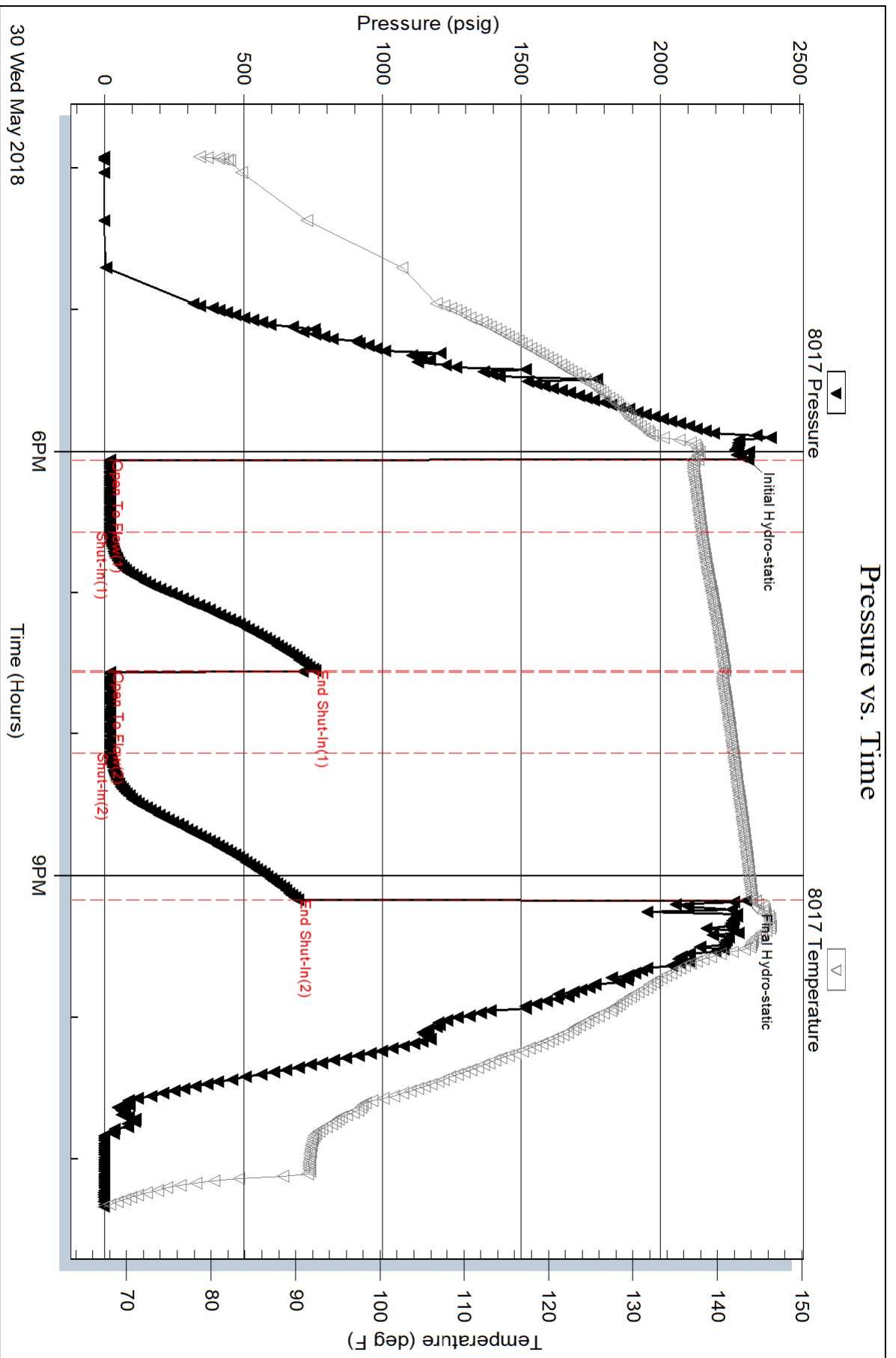
Recovery

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

* Recovery from multiple tests

Gas Rates

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



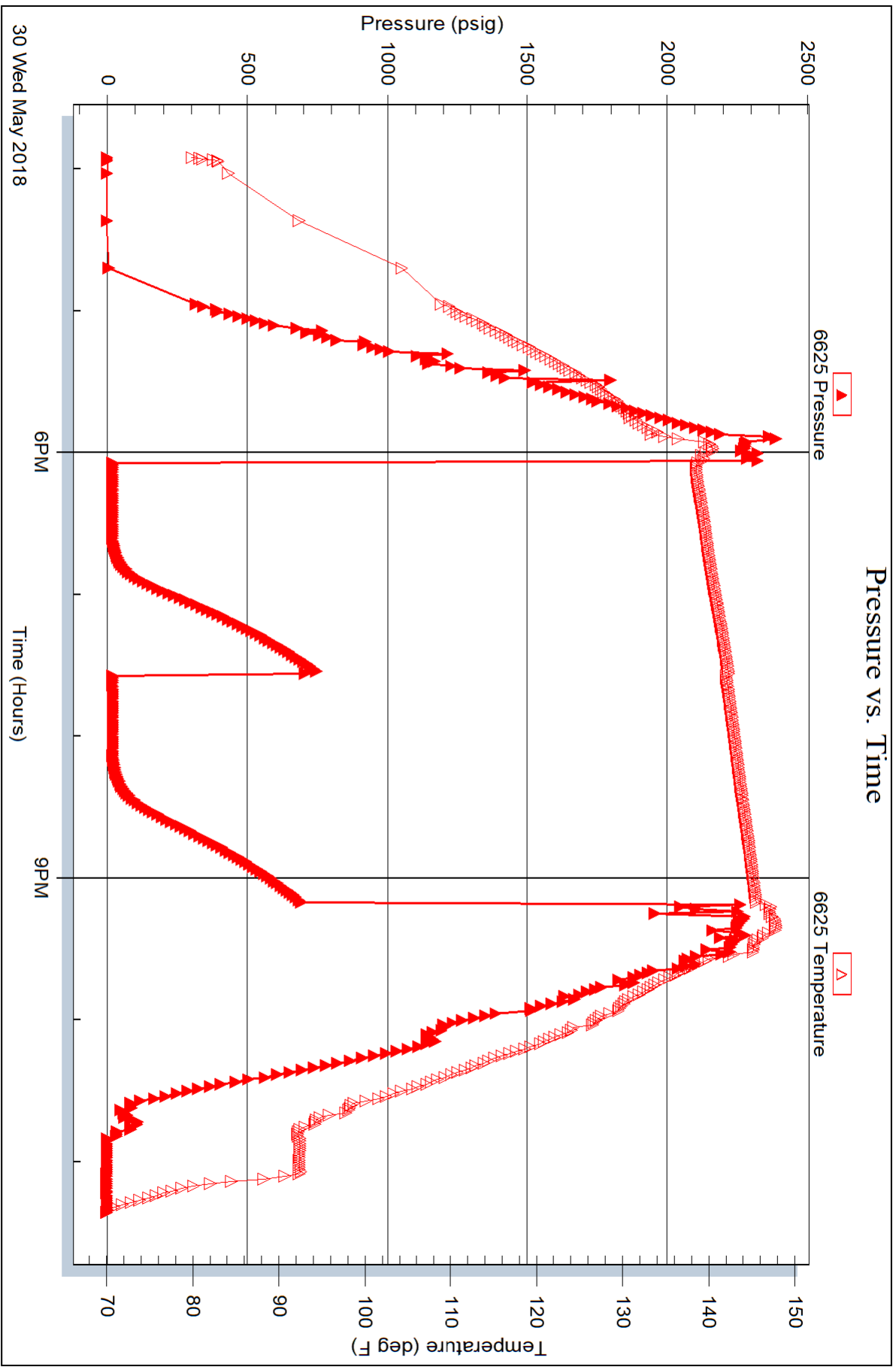
Serial #: 6625

Inside

Berexco, LLC

Ardene#2-17

DST Test Number: 7



30 Wed May 2018

Trilobite Testing, Inc

Ref. No: 63714

Printed: 2018.05.31 @ 07:02:57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC
2020 N. Bramblewood
Wichita, KS 67206
ATTN: Bryan Bynog

17/2s/37w Cheyenne KS
Ardene #2-17
Job Ticket: 63715 **DST#: 8**
Test Start: 2018.05.31 @ 13:55:00

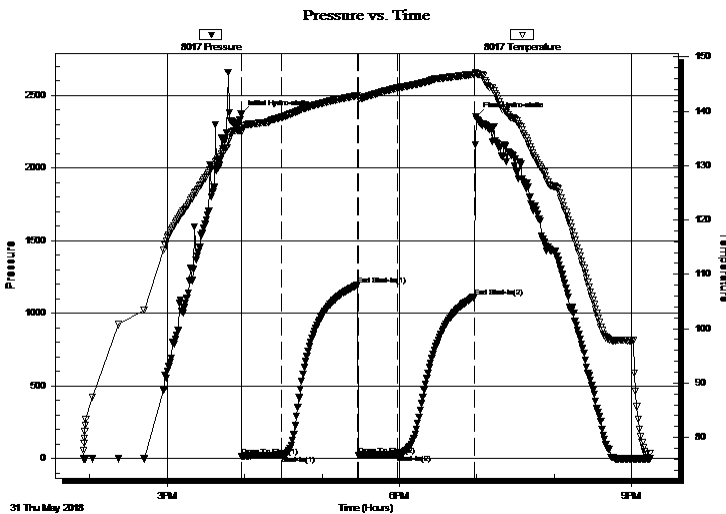
GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:57:30
Time Test Ended: 21:14:15
Interval: **4665.00 ft (KB) To 4720.00 ft (KB) (TVD)**
Total Depth: 4720.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: 83
Reference Elevations: 3287.00 ft (KB)
3279.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8017 Outside
Press@RunDepth: 27.28 psig @ 4666.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.05.31 End Date: 2018.05.31 Last Calib.: 2018.05.31
Start Time: 13:55:05 End Time: 21:14:14 Time On Btm: 2018.05.31 @ 15:57:15
Time Off Btm: 2018.05.31 @ 18:59:30

TEST COMMENT: 30 - IF: 1/8" Blow at open, died back, dead at 13 min.
60 - IS: No blow
30 - FF: No blow
60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2369.22	136.87	Initial Hydro-static
1	17.43	136.15	Open To Flow (1)
32	22.57	138.88	Shut-In(1)
91	1193.88	142.86	End Shut-In(1)
91	24.35	142.49	Open To Flow (2)
122	27.28	144.27	Shut-In(2)
181	1112.97	146.79	End Shut-In(2)
183	2353.52	147.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 95% m, 5% o	0.15

* 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

17/2s/37w Cheyenne KS

2020 N. Bramblewood
Wichita, KS 67206

Ardene #2-17

Job Ticket: 63715

DST#: 8

ATTN: Bryan Bynog

Test Start: 2018.05.31 @ 13:55:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.50 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM 95% m, 5% o	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

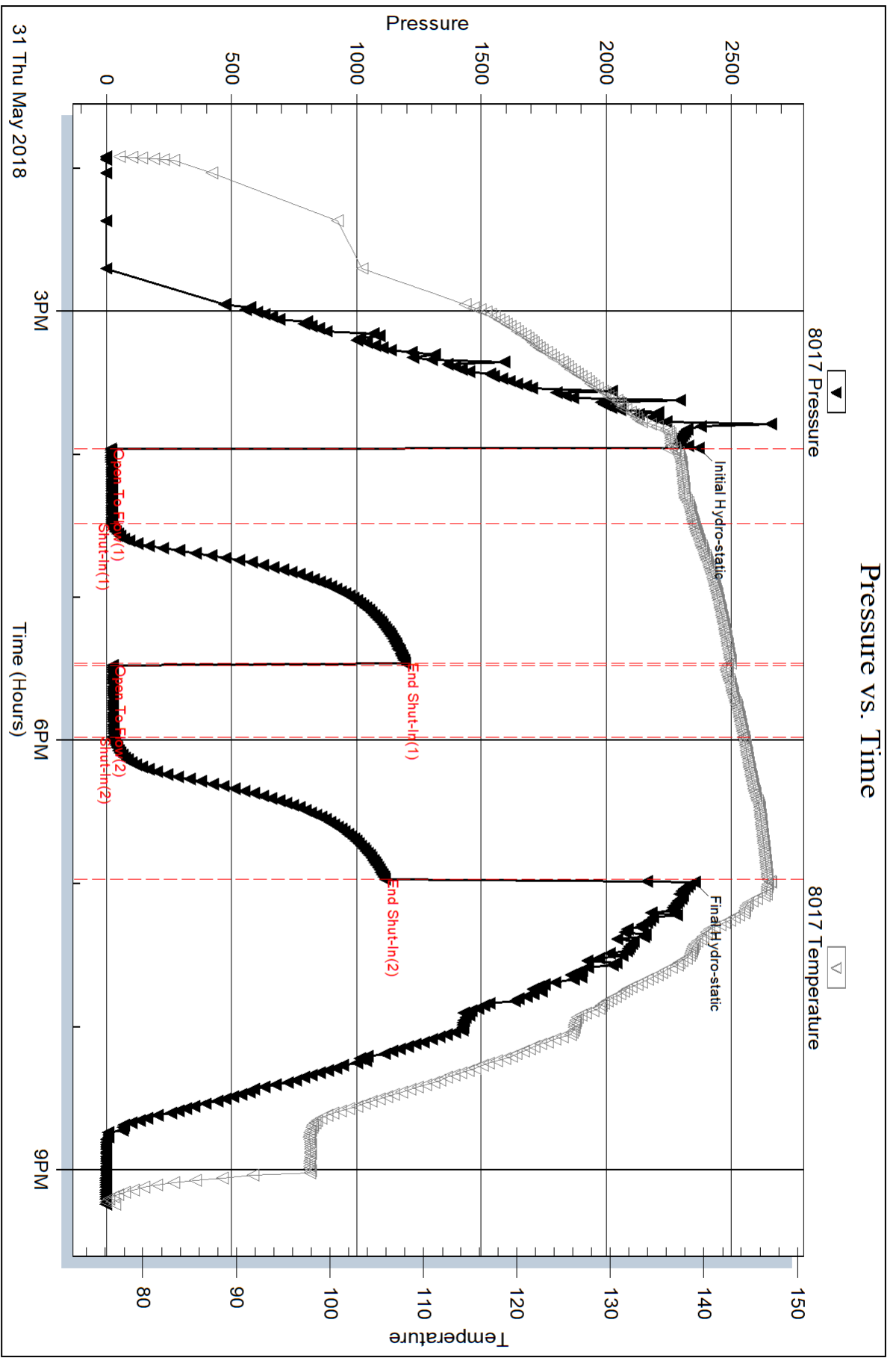
Num Gas Bombs: 0

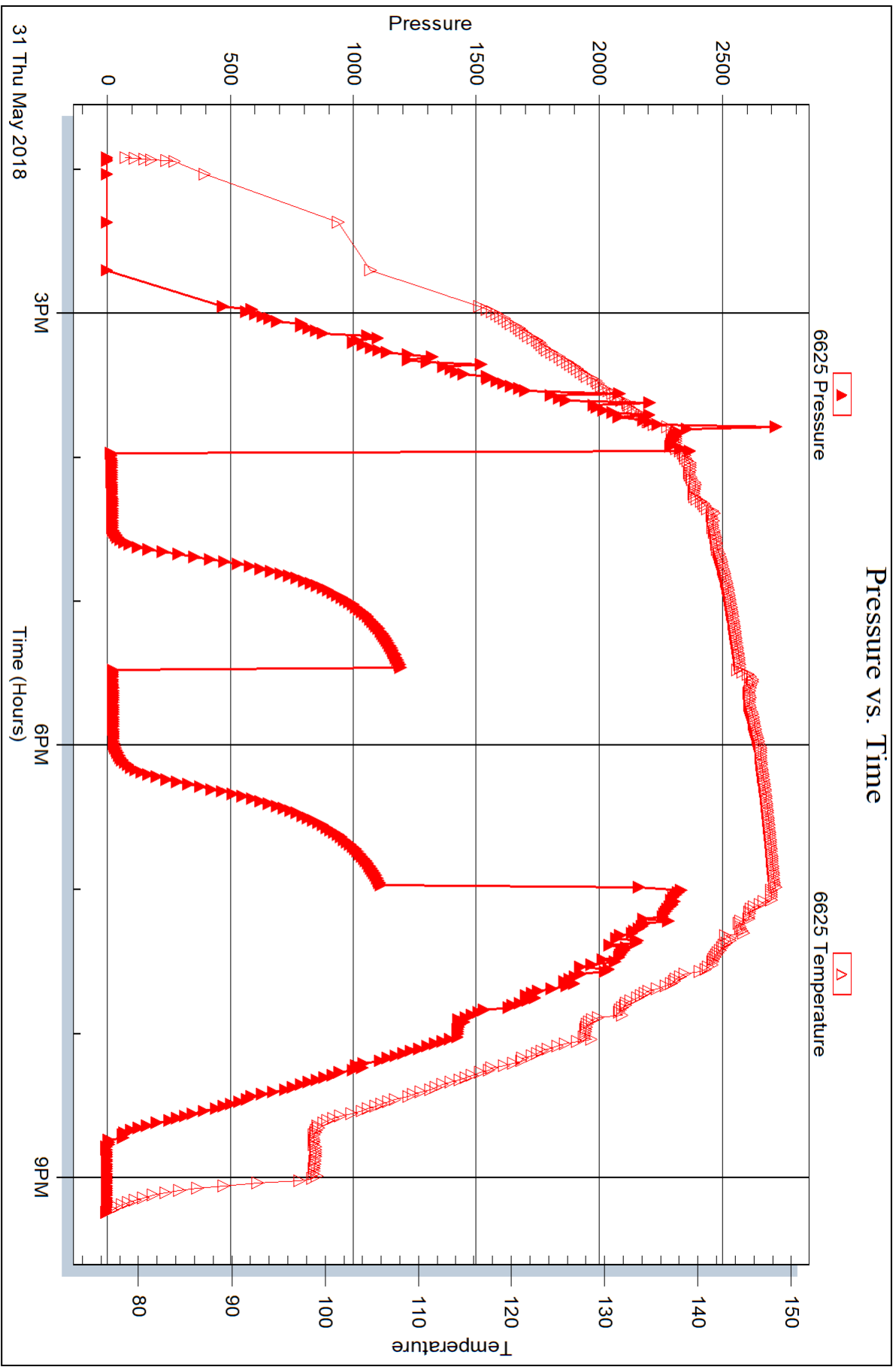
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: ARDENE #2-17
Well Id:
Location: SWNE SECTION 17 2S-37W CHEYENNE COUNTY, KANSAS
License Number: 15-023-21484
Spud Date: 5-17-2018
Surface Coordinates: 1980' FNL & `980' FEL
Region: Midcontinent
Drilling Completed: 6-1-2018

Bottom Hole
Coordinates:
Ground Elevation (ft): 3279
Logged Interval (ft): 3500
Formation: LKC,Pawnee, Fort Scott & Cherokee
Type of Drilling Fluid: WBM
K.B. Elevation (ft): 3287
To: 4800
Total Depth (ft): 4800

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

OPERATOR

Company: Berexco, LLC.
Address: 2020 N. Bramblewood
Wichita, Kansas 67206

GEOLOGIST

Name: William B. Bynog
Company:
Address: P.O.Box 687
Pinecliffe, Co. 80471

Survey's & Formation Tops

DEPTH	ANGLE	FORMATION TOPS
331'	.75	ANHYDRITE 3184 (+103)
800'	.75	BASE 3220 (+69)
1300'	1	FORAKER 3768 (-481)
4150'	1.25	TOPEKA 3994(-707)
		OREAD 4138(-851)
		LANSING A 4214(-927)
		B ZONE 4278(-991)
		C ZONE 4338(-1051)
		D ZONE 4386(-1099)
		E ZONE 4436(-1149)
		F ZONE 4468(-1181)
		PAWNEE 4624(-1337)
		FT. SCOTT 4658(-1371)
		CHEROKEE 4690-1412)
4310'	1.25	
4643'	1.25	




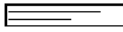

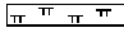

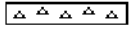


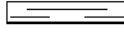

DSTs

DST#1 4080-4150, DST#2 4160-4260, DST#3 4240-4310, DST#4 4290-4360, DST#5 4350-4400, DST#6 4395-4450, DST#7 4605-4643, DST#8 4665-4720








































































Comments

DRY HOLE
























ROCK TYPES

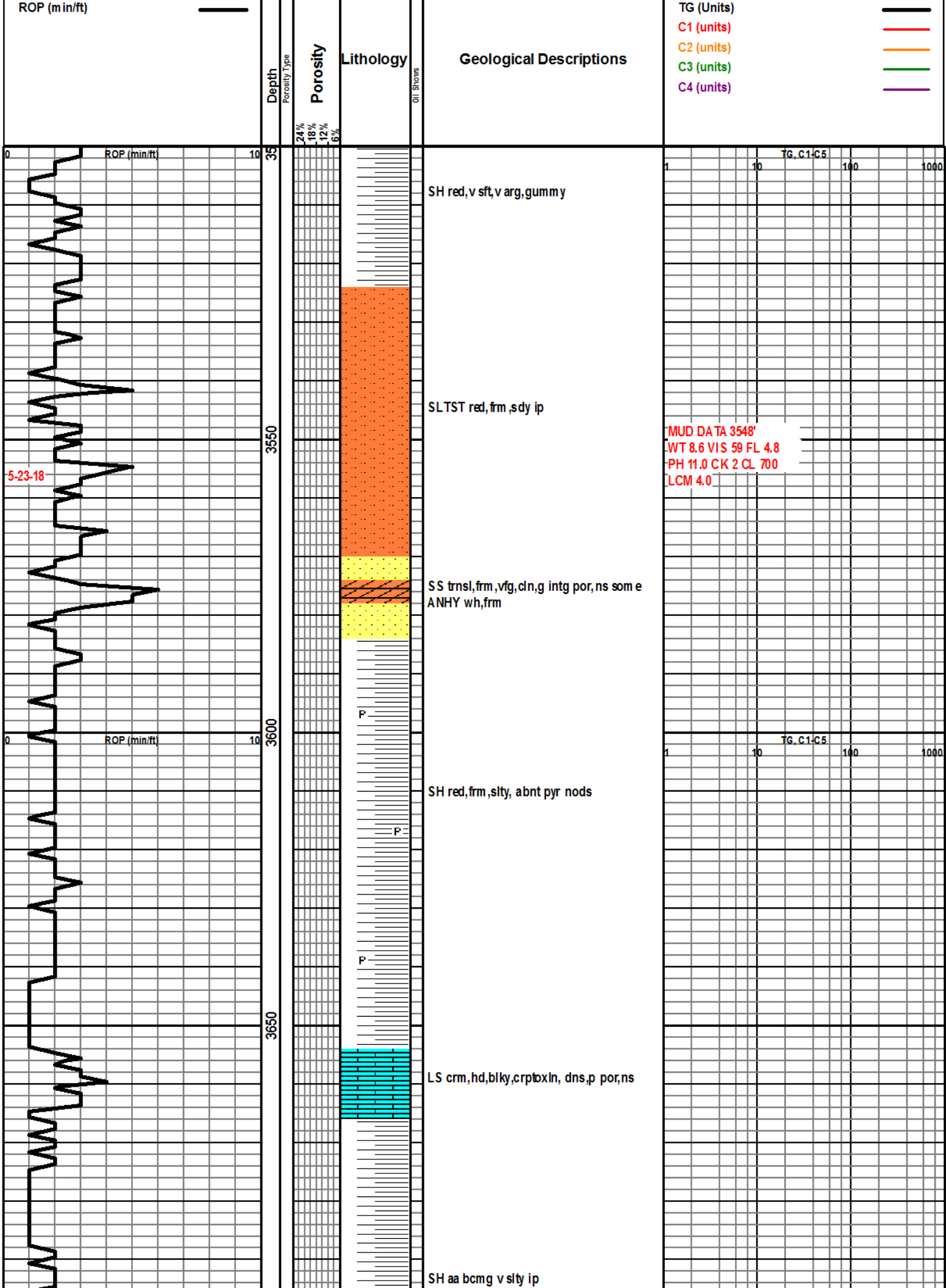
 Anhy	 Coal	 Lmst	 Shcol
 Bent	 Congl	 Meta	 Shgy
 Brec	 Dol	 Mrlst	 Sltst
 Cht	 Gyp	 Salt	 Ss
 Clyst	 Igne	 Shale	 Till

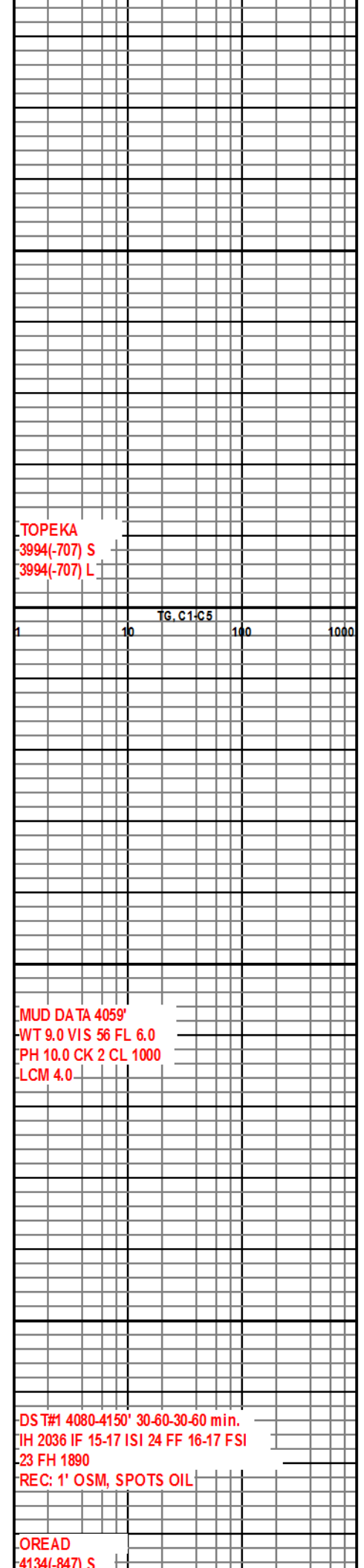
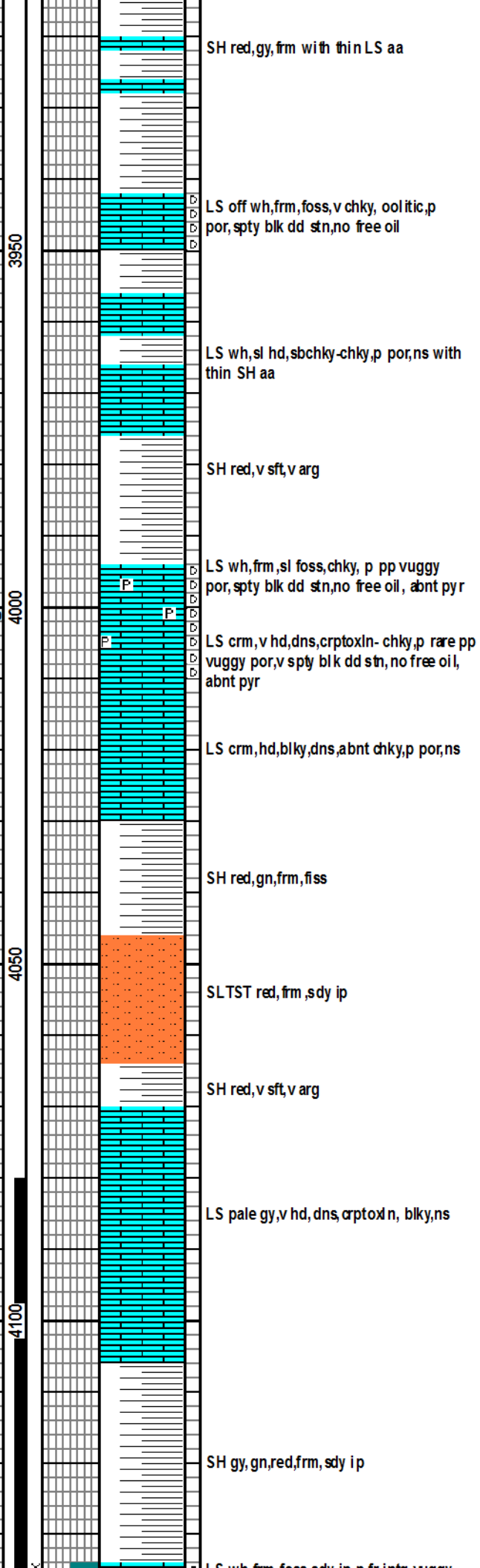
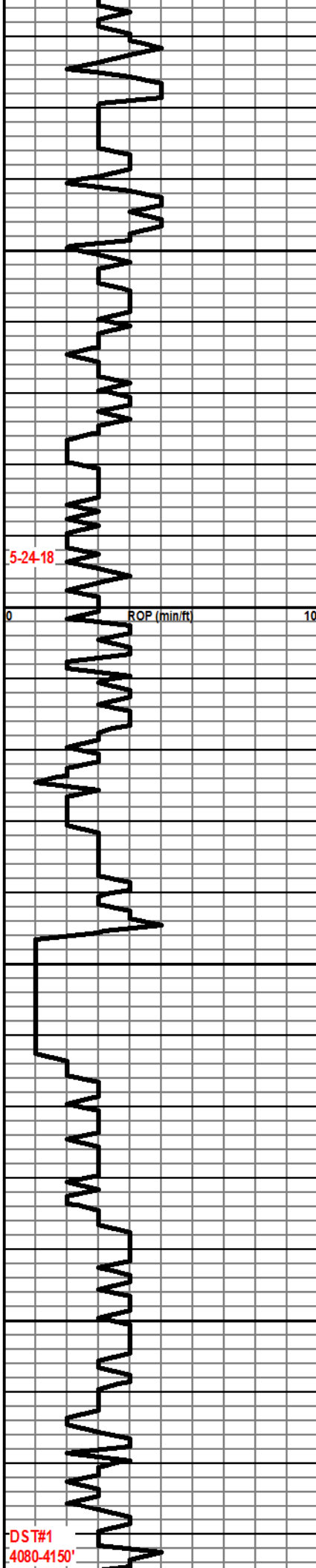
ACCESSORIES

MINERAL	 Minxl	 Crin	 Gyp
 Anhy	 Nodule	 Echin	 Ls
 Arggrn	 Phos	 Fish	 Mrlst
 Arg	 Pyr	 Foram	 Sltstrg
 Bent	 Salt	 Fossil	 Ssstrg
 Bit	 Sandy	 Gastro	
 Brecfrag	 Silt	 Oolite	TEXTURE
 Calc	 Sil	 Ostra	 Boundst
 Carb	 Sulphur	 Pelec	 Chalky
 Chtdk	 Tuff	 Pellet	 Cryxln
 Chtlt		 Pisolite	 Earthy
 Dol	FOSSIL	 Plant	 Finexln
 Feldspar	 Algae	 Strom	 Grainst
 Ferrpel	 Amph	STRINGER	 Lithogr
 Ferr	 Belm	 Anhy	 Microxln
 Glau	 Bioclst	 Arg	 Mudst
 Gyp	 Brach	 Bent	 Packst
 Hvymin	 Bryozoa	 Coal	 Wackest
 Kaol	 Cephal	 Dol	
 Marl	 Coral		

OTHER SYMBOLS

POROSITY	SORTING	 Angular	INTERVAL
 Earthy	 Well	OIL SHOW	 Dst
 Fenest	 Moderate	 Even	 Dst
 Fracture	 Poor	 Spotted	EVENT
 Inter	ROUNDING	 Ques	 Rft
 Moldic	 Rounded	 Dead	 Sidewall
 Organic	 Subrnd		
 Pinpoint	 Subang		
 Vuggy			





5-24-18

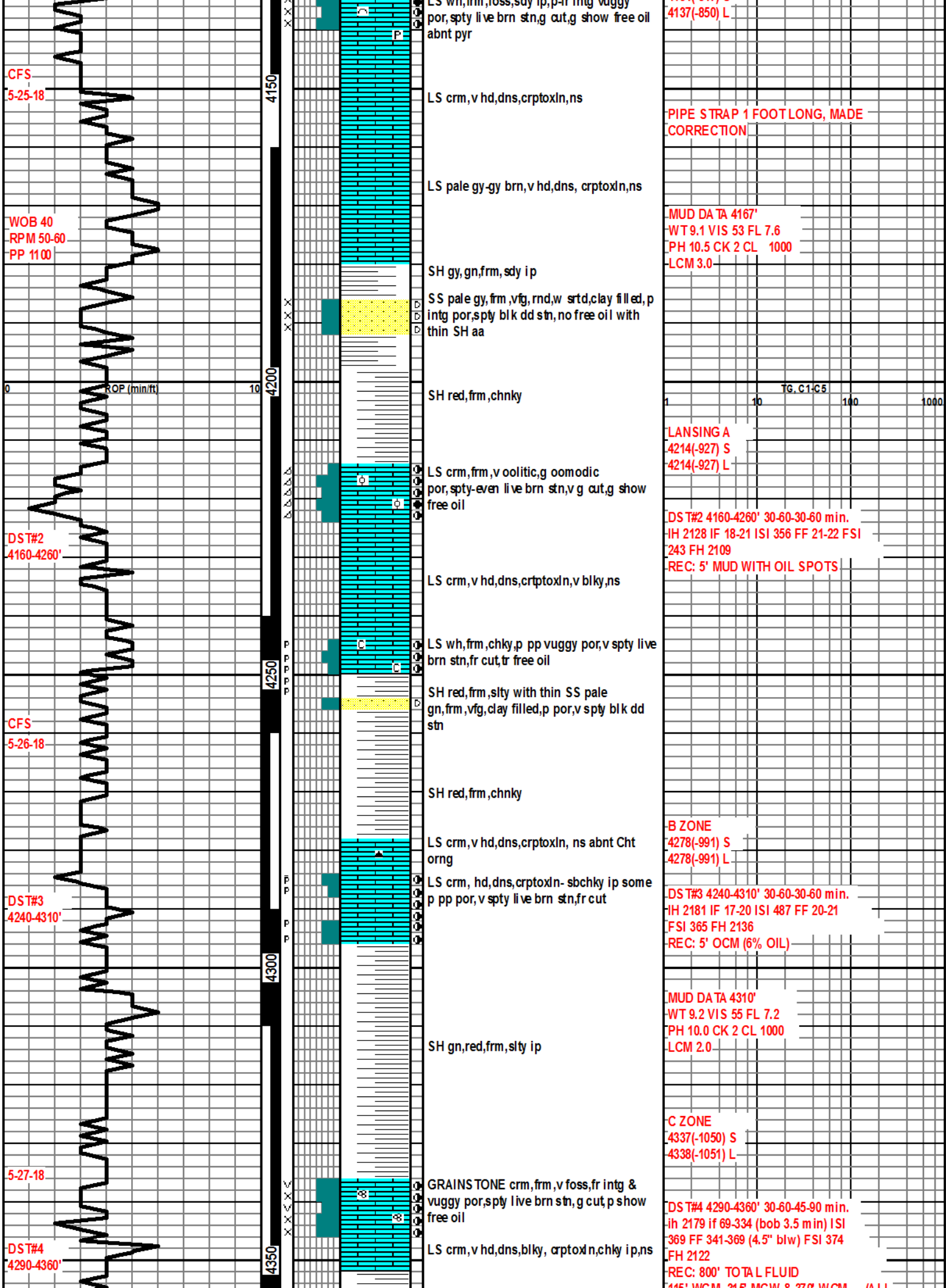
DST#1
4080-4150'

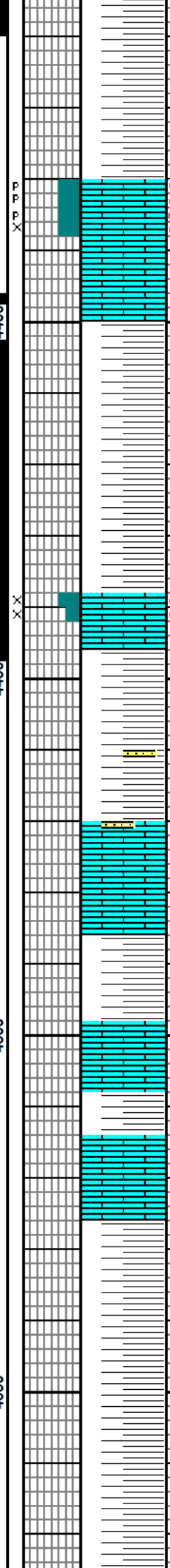
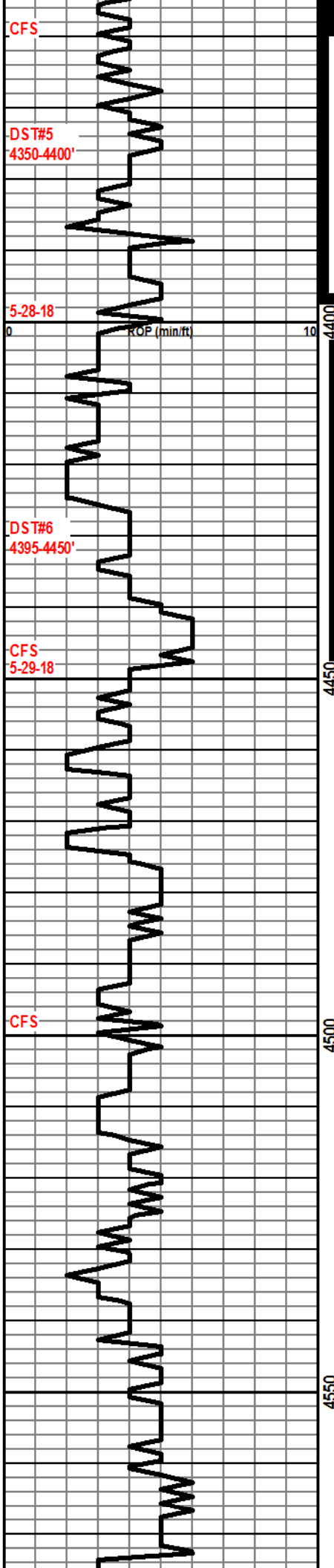
TOPEKA
3994(-707) S
3994(-707) L

MUD DATA 4059'
WT 9.0 VIS 56 FL 6.0
PH 10.0 CK 2 CL 1000
LCM 4.0

DST#1 4080-4150' 30-60-30-60 min.
IH 2036 IF 15-17 ISI 24 FF 16-17 FSI
23 FH 1890
REC: 1' OSM, SPOTS OIL

OREAD
4134(-847) S





SH gn,dk gy blk,frm,fiss

SH red,frm,chnky

LS crm,sl hd,blky,v finly microxn,p intg & pp vuggy por,v spty pale brn stn,p cut,no free oil

SH red,frm,chnky

LS pale gy,frm,microxn,sl foss,p intxn & pp por,spty live brn stn,g cut,no free oil

LS wh-pale gy,hd,dns,abnt chky ip,p vis por,ns tr Cht org

SH red,frm,chnky,bcmg v sdy ip

LS crm,v hd,dns,crptoxln, chky ip, p por,ns

SH aa

LS wh-crm,hd,crptoxln, abnt chky p por,ns

SH aa

LS aa bcmg sbchky, p por,ns

SH red,gn,sft,v arg

WT 3.5 WCM, 3.5 MCW & 3.0 WCM (ALL WITH TRACE OIL)

MUD DATA 4360'
WT 9.1 VIS 53 FL 7.2
PH 10.5 CK 2 CL 800
LCM 2.0

D ZONE
4380(-1093) S
4385(-1098) L

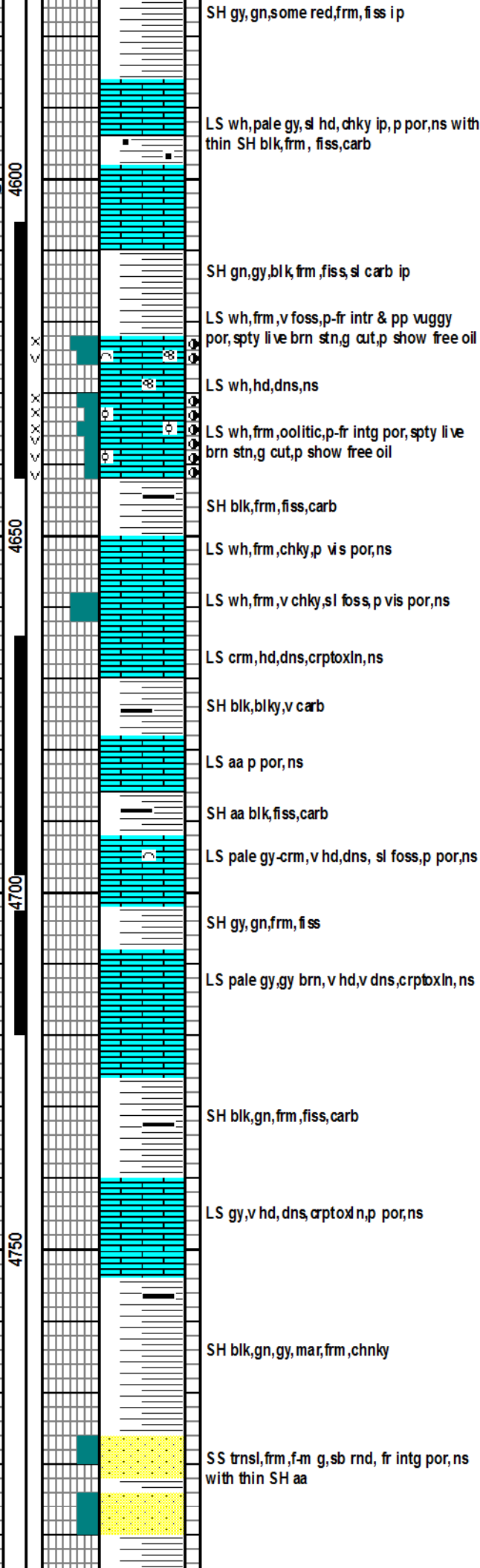
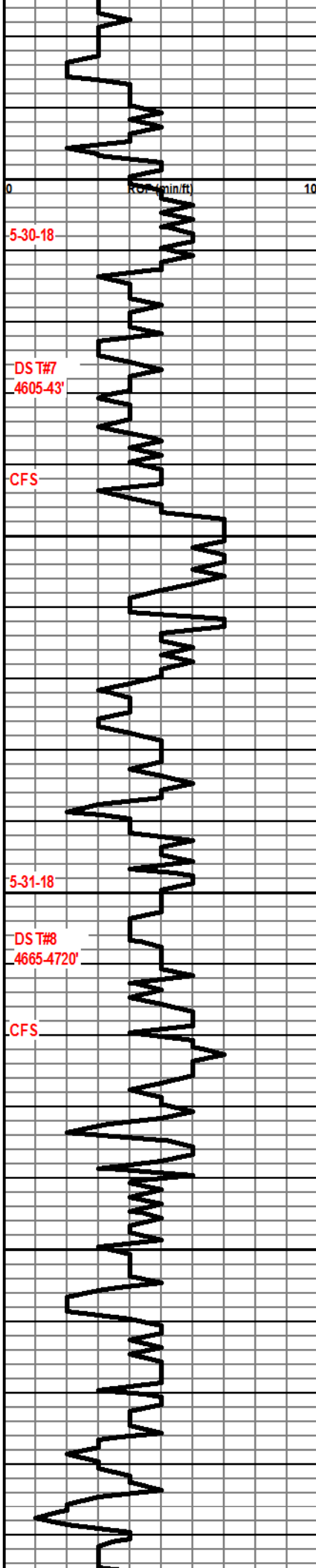
MUD DATA 4400'
WT 9.3 VIS 46 FL 6.8
PH 10.5 CK 2 CL 1000
LCM 2.0

DST#5 4350-4400' 30-60-90-120 min.
IH 2199 IF 37-317 (BOB 11 min.) ISI 392 FF 318-393 (BOB 33 min. FSI 397 FH 2159
REC: 850' TOTAL FLUID
170' MCW, TRACE OIL & 680' W

E ZONE
4439(-1152) S
4436(-1149) L

DST#6 4395-4450' 30-60-30-60 min.
IH 2202 IF 29-30 ISI 72 FF 29-31 FSI 50
FH 2173
REC: 45' MUD, TRACE OIL

F ZONE
4470(-1183) S
4468(-1181) L



TG. C1-C5

1 10 100 1000

DS T#7 4605-4643' 30-60-30-60 min.
IH 2316 IF 19-20 ISI 757 FF 21-21
FSI 695 FH 2307
REC: 5' MUD

PAWNEE
4622(-1335) S
4624(-1337) L

MUD DATA 4644'
WT 9.1 VIS 47 FL 7.6
PH 10.5 CK 2 CL 900
LCM 1.0

CHEROKEE
4692(-1405) S
4690(-1403) L

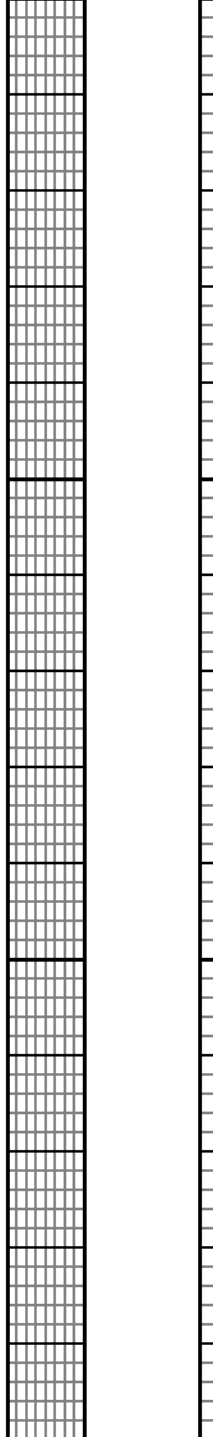
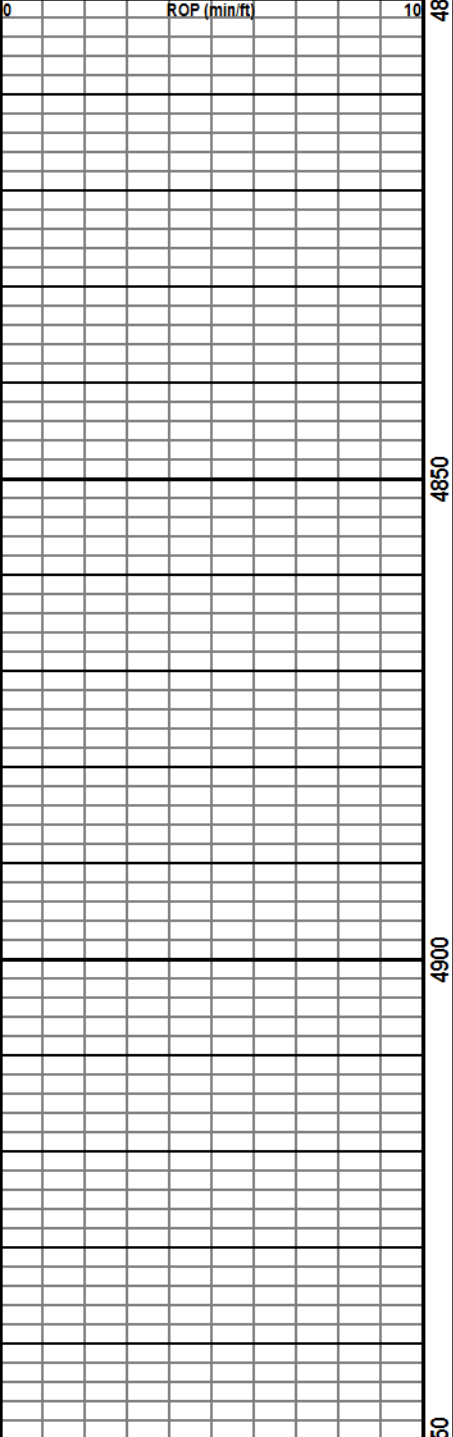
DS T#8 4665-4720' 30-60-30-60 min.
IH 2369 IF 17-23 ISI 1194 FF 24-27 FSI
1113 FH 2354
REC: 30' SOCM (5% OIL), OIL
PROBABLY CAME FROM MUD DUE
TO STUCK PIPE UP HOLE AT 3410'

MUD DATA 4720'
WT 9.1 VIS 49 FL 7.5
PH 10.0 CK 2 CL 1000
LCM 1.0

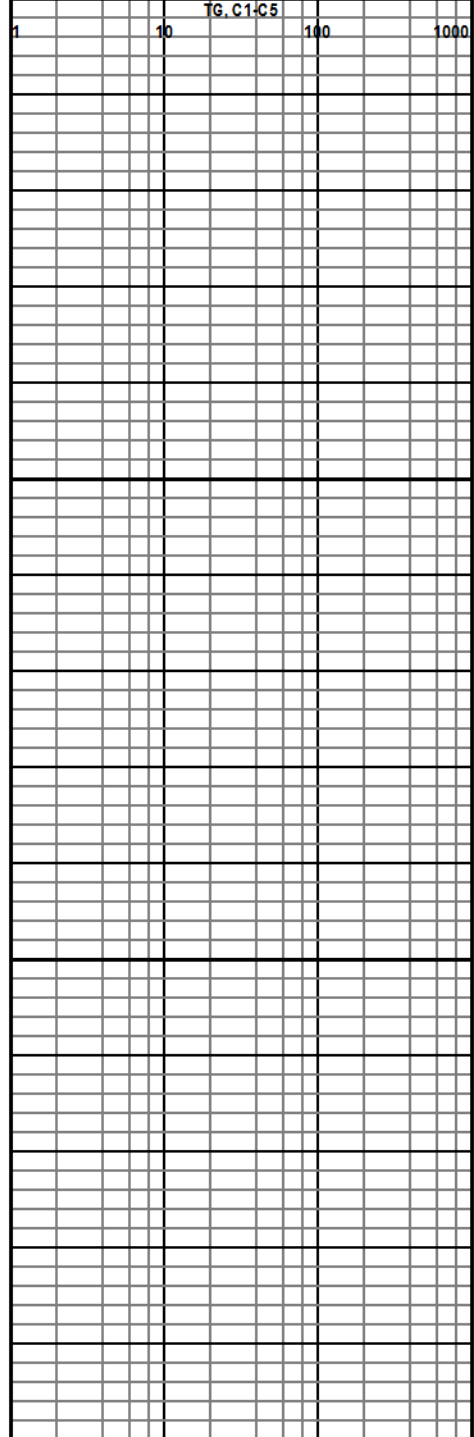
6-1-18



ROP (min/ft)



RTD 4800'
LTD 4799'



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Weatherford®

ARDENE #2-17 MudLog