

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				

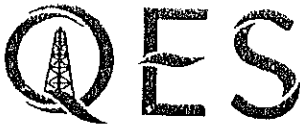
1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted 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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PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

~~CONFIDENTIAL~~

10522
10410

TICKET NUMBER 55122

LOCATION Oakley KS

FOREMAN Tommas Slav

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice #812992

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-24-18	688	Lazy Hearts 1-26	26	75	374	Sharon
CUSTOMER Chizum Oil		Brewster's N Side Pulman West face 35 N to 70 1 1/2 E	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. Box 75615			753			
CITY Wichita	STATE KS	ZIP CODE 67215	566	Paul W		

JOB TYPE Surface HOLE SIZE 12.25" HOLE DEPTH 347 CASING SIZE & WEIGHT 85#
 CASING DEPTH 347 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 148 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 20 1/2 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and Rig up on WW drilling Rig #12. Circulate casing
Mix 2605 x Surface blend # Class A cement with 38 cement 28 gal displ 20 1/2 bbls
Water shut in Cement did Circulate ~~36~~ 36 1/2 bbls

Thanks Mike & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0771	1	PUMP CHARGE	1150. ⁰⁰	1150. ⁰⁰
CE0002	40	MILEAGE	7.15	286. ⁰⁰
CE0710	12.22 TONS	Ton mileage delivery	1.75	855.40
CC5571	2605X	Surface blend #	24. ⁰⁰	6240. ⁰⁰
			Subtotal	8531.40
		less 308 discount		2559.42
			Subtotal	5971.88
			SALES TAX	387.70
			ESTIMATED TOTAL	6359.58

Revln 3737

AUTHORIZATION [Signature]

TITLE Toolpusher

DATE 4-29-18

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.



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

106010
 10501

TICKET NUMBER 55131
 LOCATION Oakley, KS
 FOREMAN Walt Dinkel

FIELD TICKET & TREATMENT REPORT
 CEMENT

INVOICE # 813096

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
5/11/18	C 88	Lazy Hearts F26	26	7 S	37 W	Sherman	
CUSTOMER		MAILING ADDRESS		TRUCK #	DRIVER	TRUCK #	DRIVER
Chizum Oil		P.O. BOX 75615		753	Keith C		
CITY		STATE	ZIP CODE	Brewster W to 3500 N to 7000 E into		772 T1A7	Paul W
Wichita		KS	67275				

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 5000' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting, Rig up on low Drilling Rig 12" Plug as ordered

- 1st - 60 Sx at 3058'
- 2nd - 100 Sx at 2150'
- 3rd - 50 Sx at 400'
- 4th - 10 Sx at 40' with Plug
- RH - 30 Sx
- 240 Sx of 60/40 4% 1/4 Flo

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	40	MILEAGE	7.15	286.00
CE0710	10.32 Tons	Ton Mileage Delivery	1.75	180.60
CC5829	240 Sx	Lite-Weight Blend V	16.00	3840.00
CC6075	60 Lbs	Celloflok	3.00	180.00
CP8228	1	8 5/8 wooden Plug	165.00	165.00
			Sub Total	7093.70
			30% dis.	2128.02
			New Total	4965.68

Ravin 3737

AUTHORIZATION [Signature] TITLE Toolpusher DATE 5-4-18
 SALES TAX 256.33
 ESTIMATED TOTAL 5221.71

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.

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY CHIZUM OIL, LLC
LEASE LAZY HEART L-26
FIELD Wildcat
LOCATION 440° N15W, 560° E1E
SEC 26 **T15P** 7S **R0E** 37W
COUNTY Sherman **STATE** Kansas
CONTRACTOR W.W. Drilling, Rig #2
SPUD 4-23-18 **COMP** 5-4-18
RTD 4930' **LTD** 4946'
MUD UP 3600' **TYPE MUD** Chemical
SAMPLES SAVED FROM 3900' to RTD
DRILLING TIME KEPT FROM 3900' to RTD
SAMPLES EXAMINED FROM 3900' to RTD
GEOLOGICAL SUPERVISION FROM 4100' to RTD
GEOLOGIST ON WELL Tim Priest

ELEVATIONS
KB 3448'
DF _____
GL 3440'
 Measurements Are All From **KB**

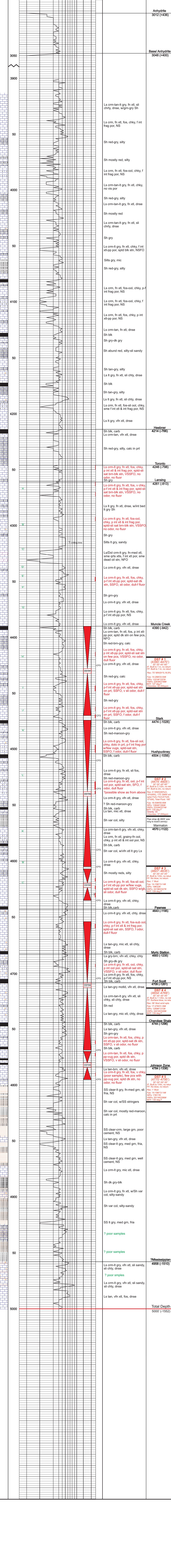
CASING
CONDUCTION N/A
SURFACE 8-5/8" @ 347'
PRODUCTION _____

FORMATION TOPS **ELECTRIC LOG** **SAMPLE**
 Anyvrite 3008 (+440) 3012 (+436)
 Heebner Shale 4208 (-760) 4214 (-766)
 Amsung 4254 (-806) 4261 (-813)
 Stark 4470 (-1022) 4474 (-1026)
 Marmaton 4568 (-1120) 4570 (-1122)
 Fort Scott 4712 (-1264) 4709 (-1261)
 Cherokee Shale 4746 (-1298) 4744 (-1296)
 Mississippian 4960 (-1512) 4958 (-1510)

REMARKS Due to lack of shows and negative DSTs, it was decided to plug and abandon the well.

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-181-20613-00-00



4958 (-1510)
 Ls crm-lt gry, vfn xtl, sli sandy, sli chty, dnse
 ? poor samples
 Ls crm-lt gry, vfn xtl, sli sandy, sli chty, dnse
 Ls tan, vfn xtl, fos, dnse

Total Depth
 5000' (-1552)



DRILL STEM TEST REPORT

Prepared For: **Chizum Oil, LLC**

PO Box 123
Andover, KS 67002

ATTN: Tim Priest

Lazy Heart #1-26

26-7s-37w Sherman,KS

Start Date: 2018.04.29 @ 12:37:00

End Date: 2018.04.29 @ 19:58:30

Job Ticket #: 63269 DST #: 1

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

Printed: 2018.05.03 @ 09:28:52



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chizum Oil, LLC
 PO Box 123
 Andover, KS 67002
 ATTN: Tim Priest

26-7s-37w Sherman,KS
Lazy Heart #1-26
 Job Ticket: 63269 **DST#: 1**
 Test Start: 2018.04.29 @ 12:37:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:03:45 Tester: James Winder
 Time Test Ended: 19:58:30 Unit No: 83
 Interval: **4390.00 ft (KB) To 4470.00 ft (KB) (TVD)** Reference Elevations: 3448.00 ft (KB)
 Total Depth: 4470.00 ft (KB) (TVD) 3440.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

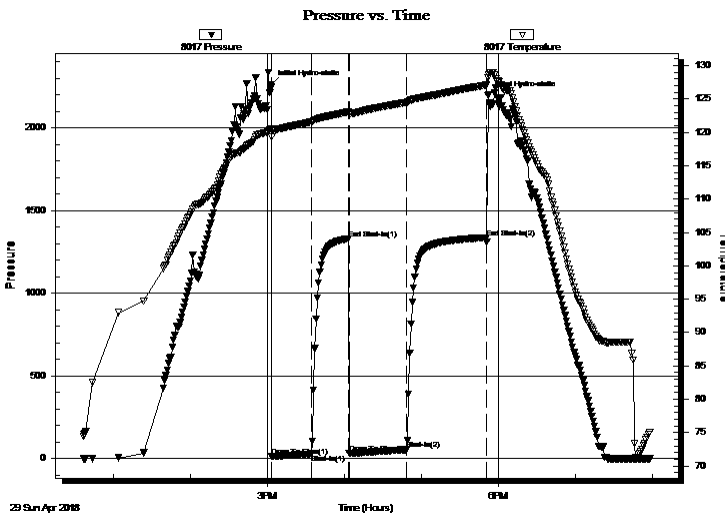
Serial #: 8017

Outside

Press@RunDepth: 53.72 psig @ 4391.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.29 End Date: 2018.04.29 Last Calib.: 2018.04.29
 Start Time: 12:37:05 End Time: 19:58:29 Time On Btm: 2018.04.29 @ 15:03:30
 Time Off Btm: 2018.04.29 @ 17:52:30

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1 1/4"
 30 - IS: No blow back
 45 - FF: Blow built to 1"
 60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.55	120.52	Initial Hydro-static
1	13.93	119.34	Open To Flow (1)
31	28.31	121.57	Shut-In(1)
60	1330.81	123.08	End Shut-In(1)
61	32.56	122.84	Open To Flow (2)
106	53.72	124.51	Shut-In(2)
168	1336.80	127.10	End Shut-In(2)
169	2198.09	128.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	MCW 91%w, 9%m	0.34

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chizum Oil, LLC

26-7s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Lazy Heart #1-26

Job Ticket: 63269

DST#: 1

ATTN: Tim Priest

Test Start: 2018.04.29 @ 12:37:00

Tool Information

Drill Pipe:	Length: 4204.00 ft	Diameter: 3.80 inches	Volume: 58.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 59.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4390.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4370.00	
Shut In Tool	5.00			4375.00	
Hydraulic tool	5.00			4380.00	
Packer	5.00			4385.00	21.00 Bottom Of Top Packer
Packer	5.00			4390.00	
Packer - Shale	0.00			4390.00	
Stubb	1.00			4391.00	
Recorder	0.00	6625	Inside	4391.00	
Recorder	0.00	8017	Outside	4391.00	
Perforations	12.00			4403.00	
Blank Spacing	64.00			4467.00	
Bullnose	3.00			4470.00	80.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil, LLC

26-7s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Lazy Heart #1-26

Job Ticket: 63269

DST#: 1

ATTN: Tim Priest

Test Start: 2018.04.29 @ 12:37:00

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:

82000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	MCW 91%w, 9%m	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

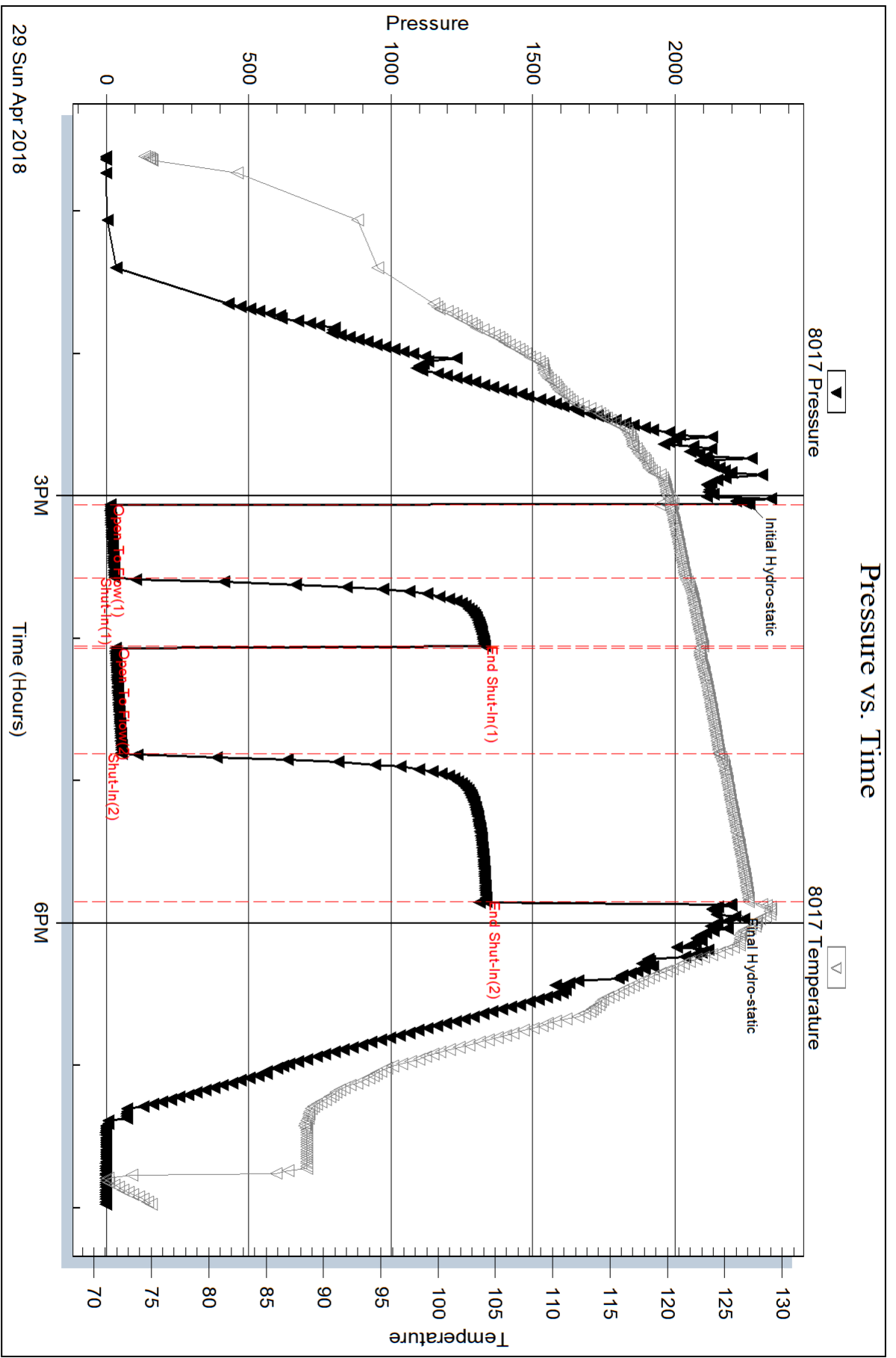
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .086 ohms @ 78.2 deg F Chlorides = 82,000 ppm



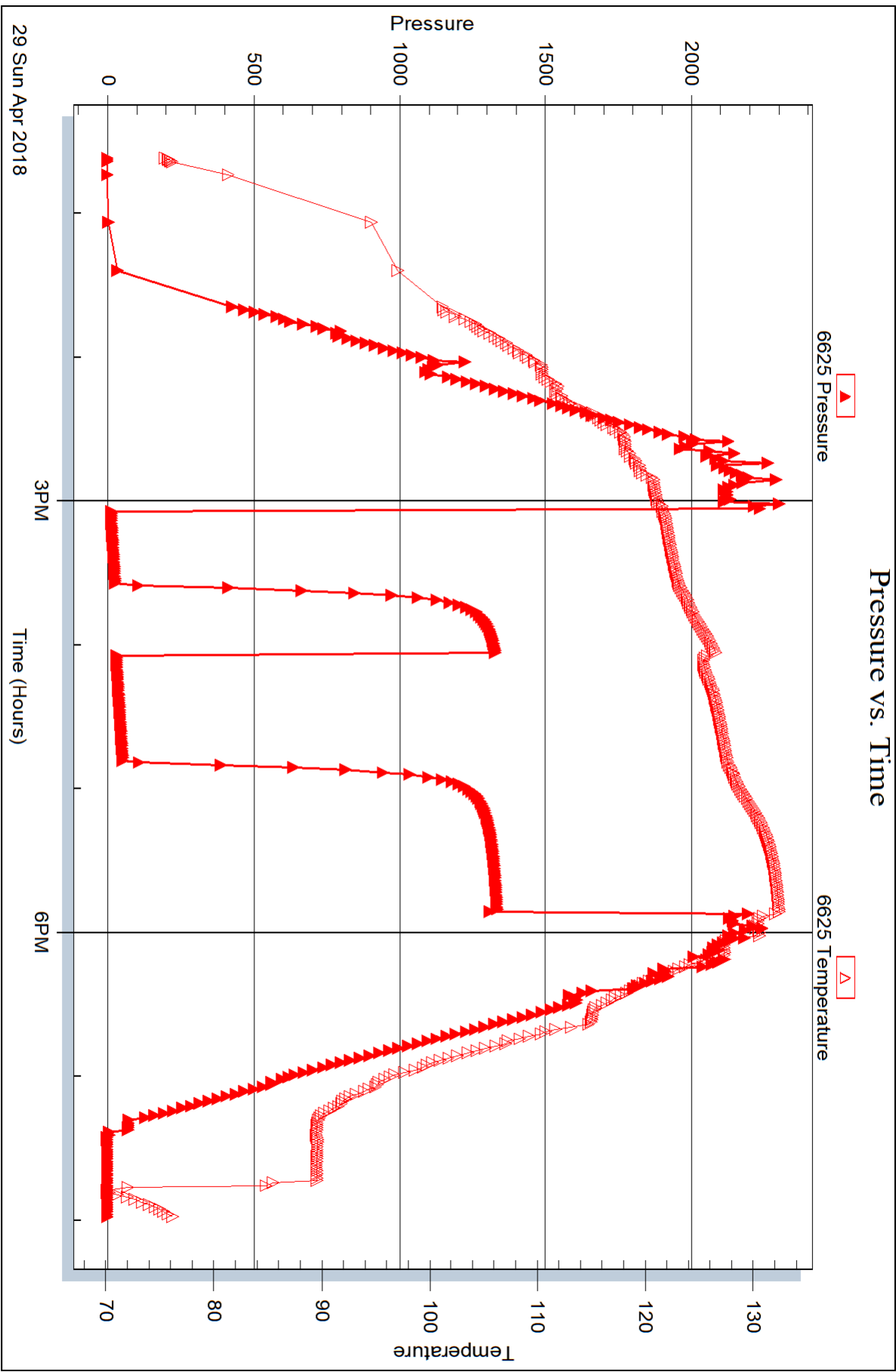
Serial #: 6625

Inside

Chizum Oil, LLC

Lazy Heart #1-26

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Chizum Oil, LLC**

PO Box 123
Andover, KS 67002

ATTN: Tim Priest

Lazy Heart #1-26

26-7s-37w Sherman,KS

Start Date: 2018.04.30 @ 14:25:00

End Date: 2018.04.30 @ 23:21:30

Job Ticket #: 63270 DST #: 2

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

Printed: 2018.05.03 @ 09:28:27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chizum Oil, LLC
PO Box 123
Andover, KS 67002
ATTN: Tim Priest

26-7s-37w Sherman, KS
Lazy Heart #1-26
Job Ticket: 63270 **DST#: 2**
Test Start: 2018.04.30 @ 14:25:00

GENERAL INFORMATION:

Formation: **LKC "K" - Marmaton "**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 17:56:00 Tester: James Winder
Time Test Ended: 23:21:30 Unit No: 83
Interval: 4474.00 ft (KB) To 4605.00 ft (KB) (TVD) Reference Elevations: 3448.00 ft (KB)
Total Depth: 4605.00 ft (KB) (TVD) 3440.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

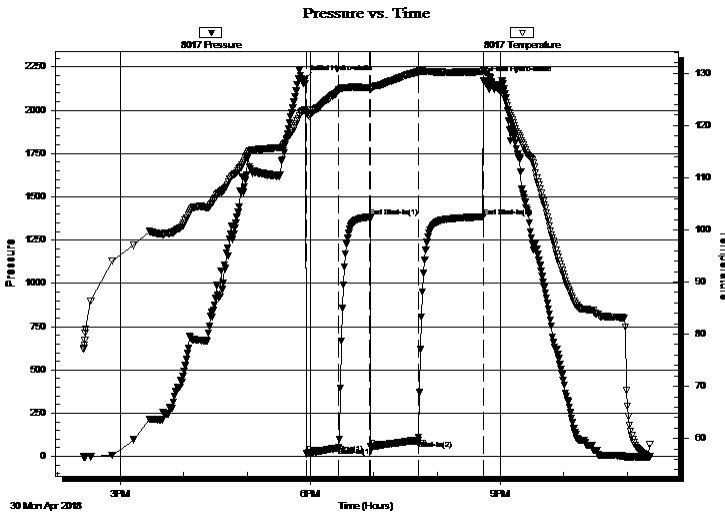
Serial #: 8017

Outside

Press@RunDepth: 95.02 psig @ 4475.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.04.30 End Date: 2018.04.30 Last Calib.: 2018.04.30
Start Time: 14:25:05 End Time: 23:21:30 Time On Btm: 2018.04.30 @ 17:53:45
Time Off Btm: 2018.04.30 @ 20:44:30

TEST COMMENT: 30 - IF: Blow built to 3 1/2"
30 - IS: No blow back
45 - FF: Blow built to 2" (late starting due to open valve)
60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2178.63	122.85	Initial Hydro-static
3	15.88	122.30	Open To Flow (1)
33	50.16	126.80	Shut-In(1)
63	1383.55	127.31	End Shut-In(1)
63	55.44	126.95	Open To Flow (2)
109	95.02	130.31	Shut-In(2)
170	1384.22	130.30	End Shut-In(2)
171	2173.31	130.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
175.00	MCW w/oil spots 61%w, 37%m, 1%o,	90.86
5.00	SWMCO 90%o, 6%m, 4%w	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chizum Oil, LLC

26-7s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Lazy Heart #1-26

Job Ticket: 63270

DST#: 2

ATTN: Tim Priest

Test Start: 2018.04.30 @ 14:25:00

Tool Information

Drill Pipe:	Length: 4297.00 ft	Diameter: 3.80 inches	Volume: 60.28 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 61.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4474.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	131.00 ft			
Tool Length:	152.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4454.00	
Shut In Tool	5.00			4459.00	
Hydraulic tool	5.00			4464.00	
Packer	5.00			4469.00	21.00 Bottom Of Top Packer
Packer	5.00			4474.00	
Packer - Shale	0.00			4474.00	
Stubb	1.00			4475.00	
Recorder	0.00	6625	Inside	4475.00	
Recorder	0.00	8017	Outside	4475.00	
Perforations	27.00			4502.00	
Blank Spacing	96.00			4598.00	
Perforations	4.00			4602.00	
Bullnose	3.00			4605.00	131.00 Bottom Packers & Anchor

Total Tool Length: 152.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil, LLC

26-7s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Lazy Heart #1-26

Job Ticket: 63270

DST#: 2

ATTN: Tim Priest

Test Start: 2018.04.30 @ 14:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

37000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
175.00	MCW w/oil spots 61%w, 37%m, 1%o, 1%g	0.861
5.00	SWMCO 90%o, 6%m, 4%w	0.025

Total Length: 180.00 ft Total Volume: 0.886 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 33 api @ 62 deg F Corrected Gravity = 32.8 api

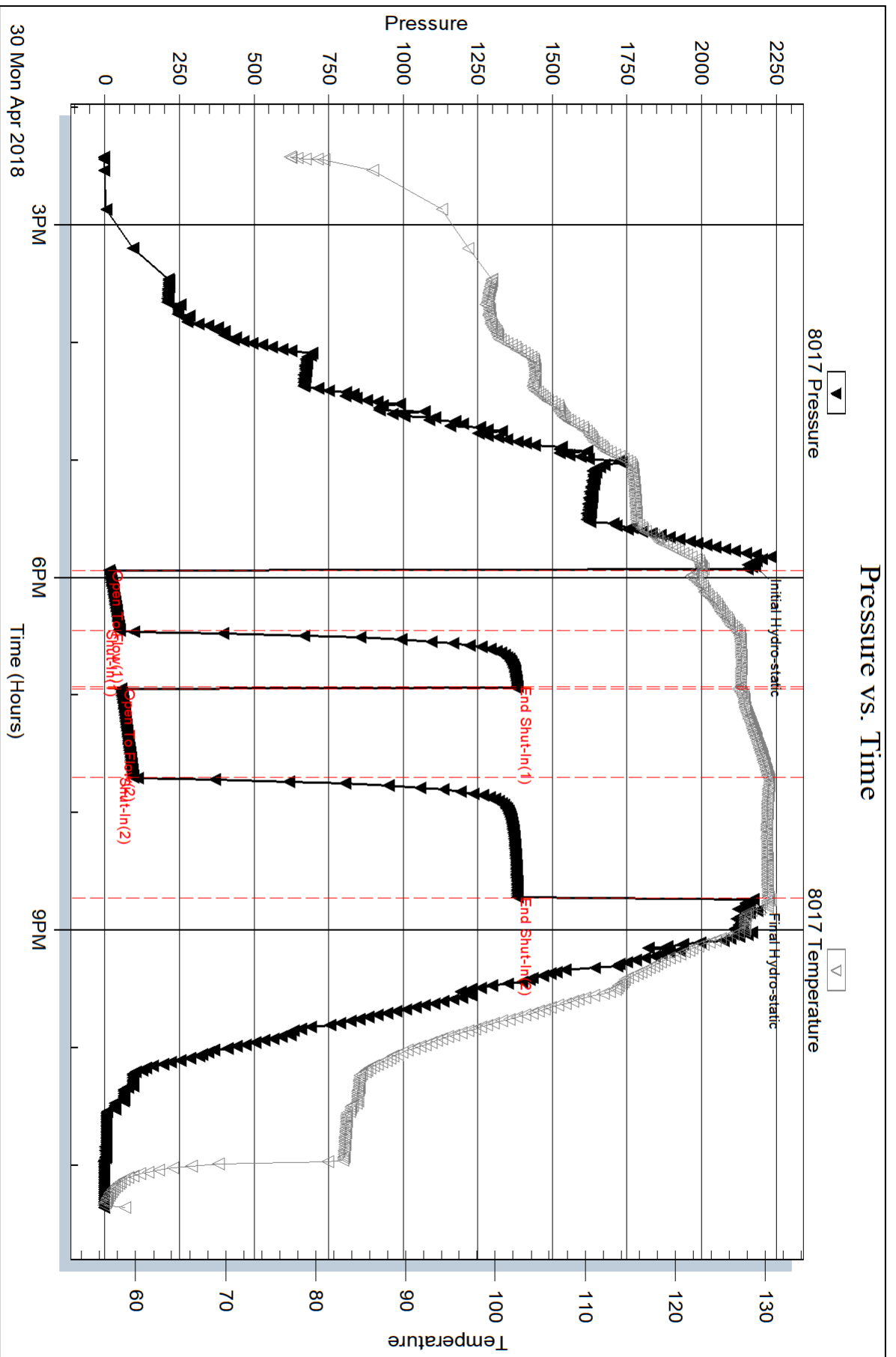
RW = .221 ohms @ 61.8 deg F Chlorides = 37,000 ppm

Serial #: 8017

Outside Chizum Oil, LLC

Lazy Heart #1-26

DST Test Number: 2



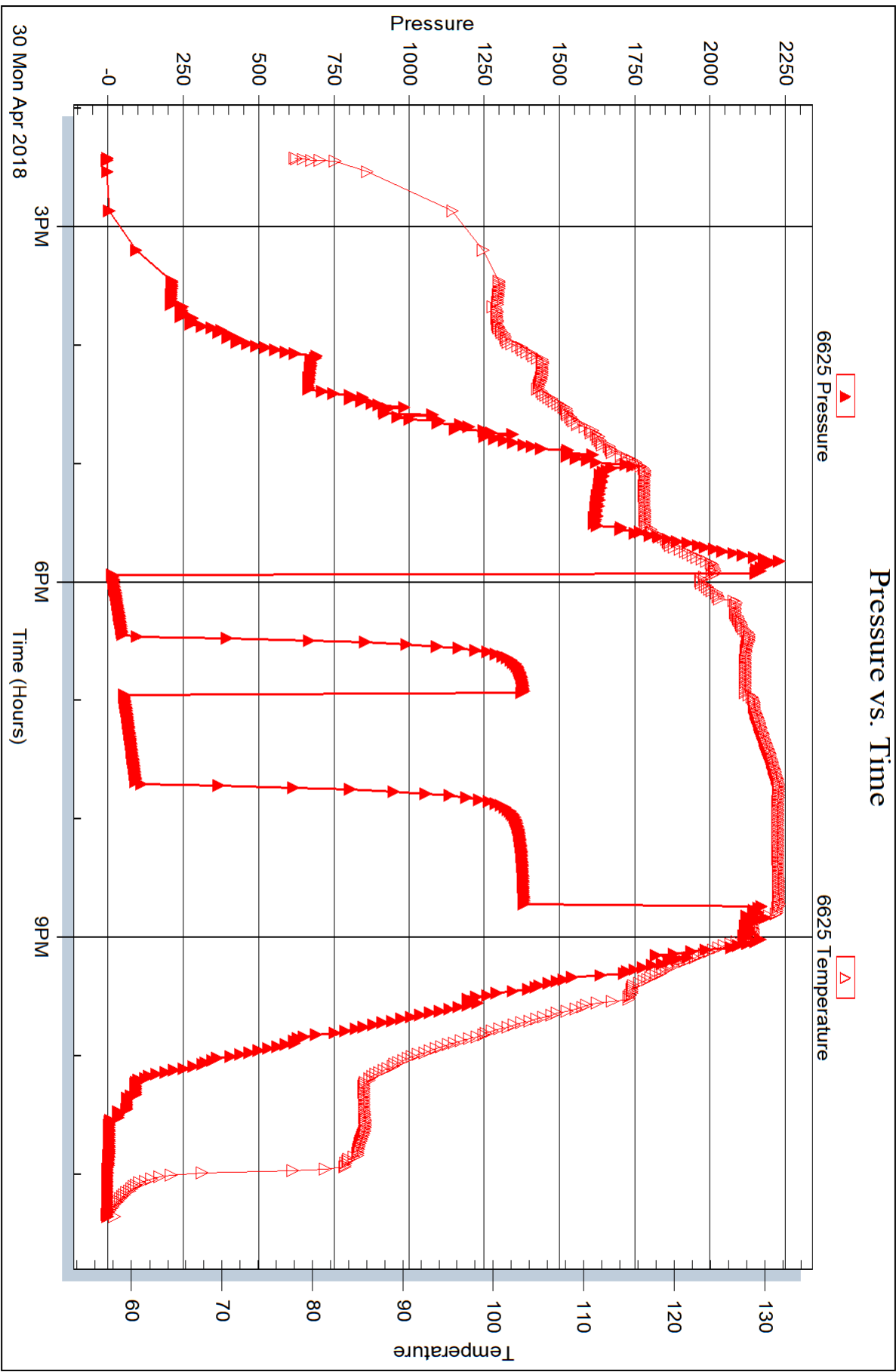
Serial #: 6625

Inside

Chizum Oil, LLC

Lazy Heart #1-26

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Chizum Oil, LLC**

PO Box 123
Andover, KS 67002

ATTN: Tim Priest

Lazy Heart #1-26

26-7s-37w Sherman,KS

Start Date: 2018.05.01 @ 07:24:00

End Date: 2018.05.01 @ 13:46:00

Job Ticket #: 63271 DST #: 3

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

Printed: 2018.05.03 @ 09:27:22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil, LLC
 PO Box 123
 Andover, KS 67002
 ATTN: Tim Priest

26-7s-37w Sherman, KS
Lazy Heart #1-26
 Job Ticket: 63271 **DST#: 3**
 Test Start: 2018.05.01 @ 07:24:00

GENERAL INFORMATION:

Formation: **Marmaton "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:33:00
 Time Test Ended: 13:46:00
 Interval: **4607.00 ft (KB) To 4635.00 ft (KB) (TVD)**
 Total Depth: 4635.00 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: 3448.00 ft (KB)
 3440.00 ft (CF)
 KB to GR/CF: 8.00 ft

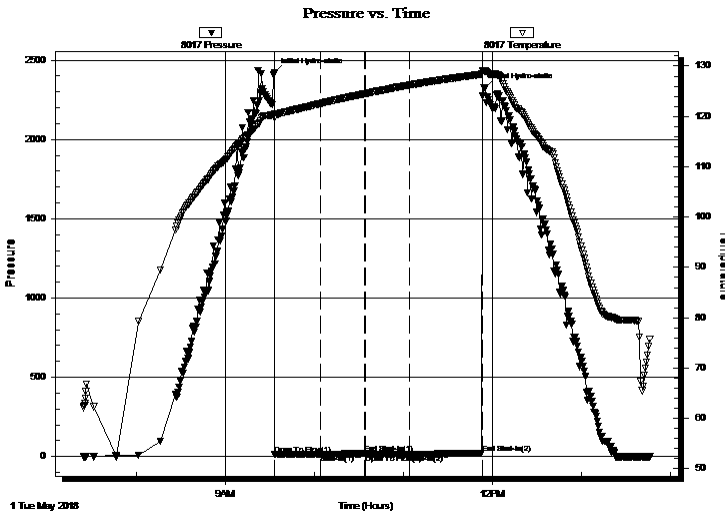
Serial #: 8017

Outside

Press@RunDepth: 14.10 psig @ 4608.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.05.01 End Date: 2018.05.01 Last Calib.: 2018.05.01
 Start Time: 07:24:05 End Time: 13:45:59 Time On Btm: 2018.05.01 @ 09:32:45
 Time Off Btm: 2018.05.01 @ 11:54:45

TEST COMMENT: 30 - IF: Blow built to 1/2"
 30 - IS: No blow back
 30 - FF: No blow
 45 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2418.52	120.41	Initial Hydro-static
1	13.73	119.73	Open To Flow (1)
31	14.79	122.53	Shut-In(1)
61	18.75	124.47	End Shut-In(1)
62	13.34	124.49	Open To Flow (2)
91	14.10	126.21	Shut-In(2)
140	22.43	128.38	End Shut-In(2)
142	2327.05	128.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	WCM 80%w, 20%w	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chizum Oil, LLC

26-7s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Lazy Heart #1-26

Job Ticket: 63271

DST#: 3

ATTN: Tim Priest

Test Start: 2018.05.01 @ 07:24:00

Tool Information

Drill Pipe:	Length: 4424.00 ft	Diameter: 3.80 inches	Volume: 62.06 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4607.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4587.00	
Shut In Tool	5.00			4592.00	
Hydraulic tool	5.00			4597.00	
Packer	5.00			4602.00	21.00 Bottom Of Top Packer
Packer	5.00			4607.00	
Packer - Shale	0.00			4607.00	
Stubb	1.00			4608.00	
Recorder	0.00	6625	Inside	4608.00	
Recorder	0.00	8017	Outside	4608.00	
Perforations	24.00			4632.00	
Bullnose	3.00			4635.00	28.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil, LLC

26-7s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Lazy Heart #1-26

Job Ticket: 63271

DST#: 3

ATTN: Tim Priest

Test Start: 2018.05.01 @ 07:24:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	WCM 80%m, 20%w	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:

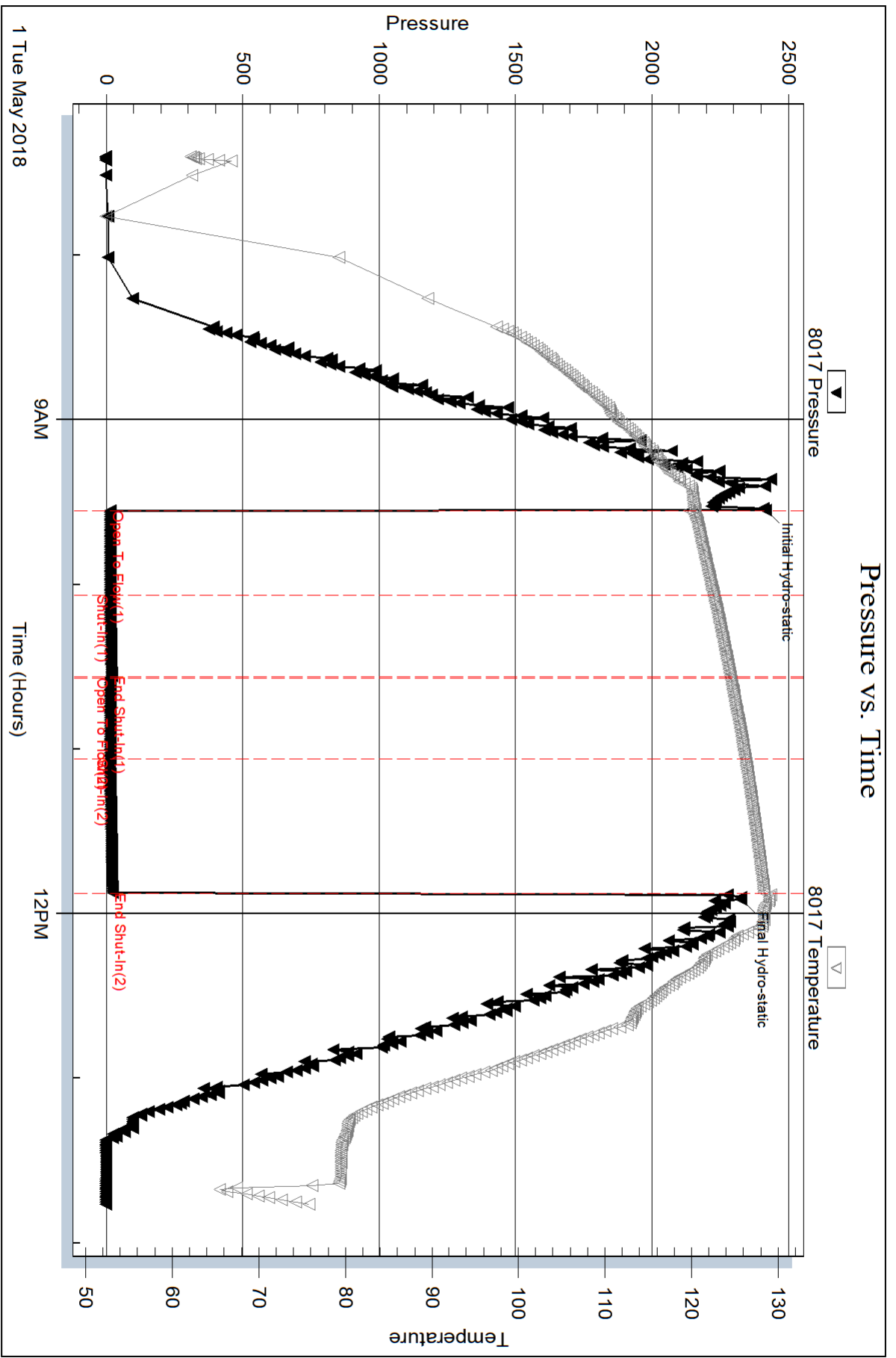
Recovery Comments: RW = .365 ohms @ 66 deg F Chlorides = 20,000 ppm

Serial #: 8017

Outside Chizum Oil, LLC

Lazy Heart #1-26

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 63271

Printed: 2018.05.03 @ 09:27:23

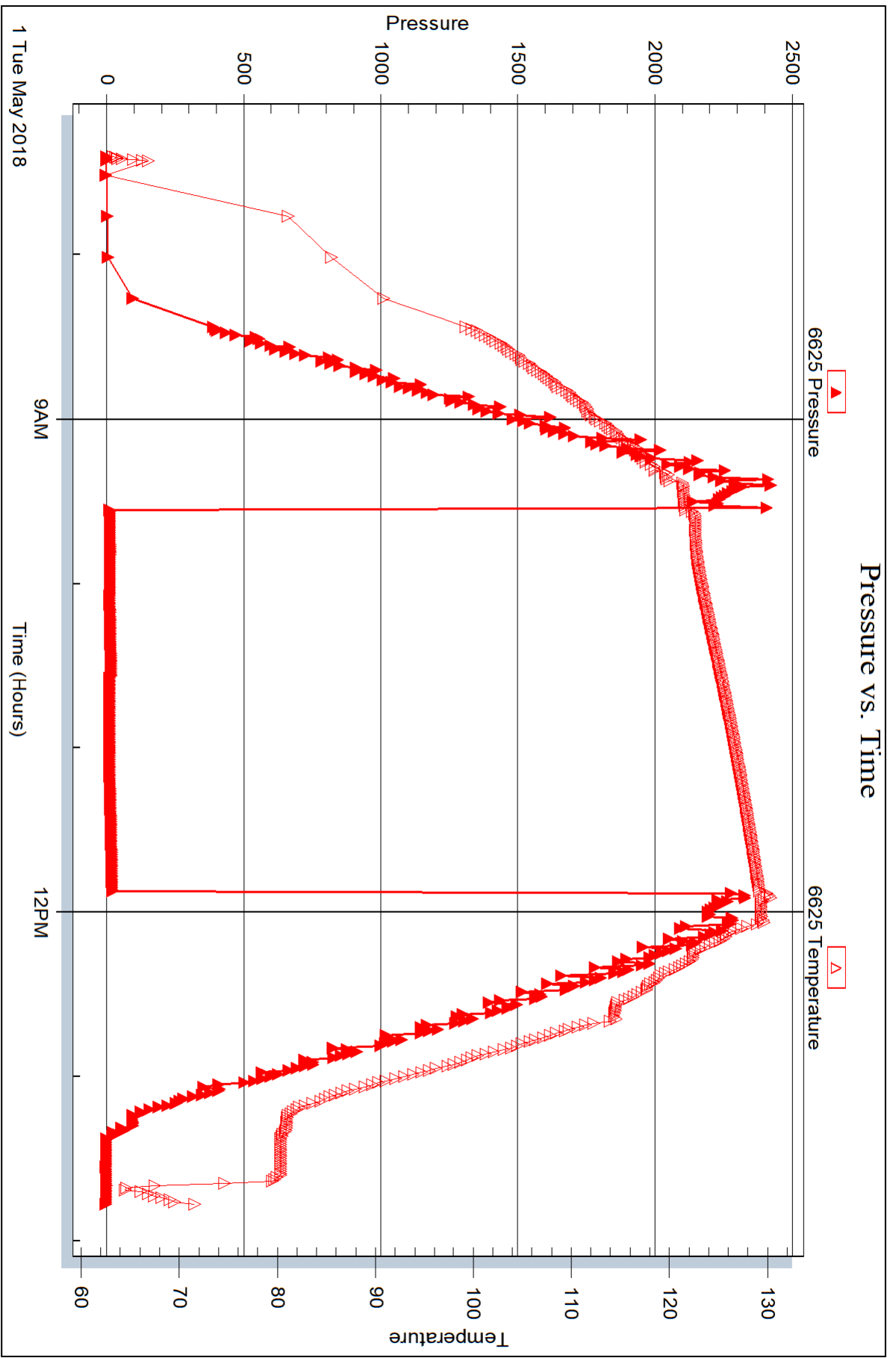
Serial #: 6625

Inside

Chizum Oil, LLC

Lazy Heart #1-26

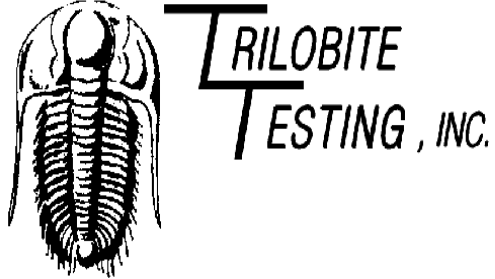
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 63271

Printed: 2018.05.03 @ 09:27:23



DRILL STEM TEST REPORT

Prepared For: **Chizum Oil, LLC**

PO Box 123
Andover, KS 67002

ATTN: Tim Priest

Lazy Heart #1-26

26-7s-37w Sherman,KS

Start Date: 2018.05.02 @ 06:25:00

End Date: 2018.05.02 @ 13:02:45

Job Ticket #: 63272 DST #: 4

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

Printed: 2018.05.03 @ 09:27:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chizum Oil, LLC
PO Box 123
Andover, KS 67002
ATTN: Tim Priest

26-7s-37w Sherman, KS
Lazy Heart #1-26
Job Ticket: 63272 **DST#: 4**
Test Start: 2018.05.02 @ 06:25:00

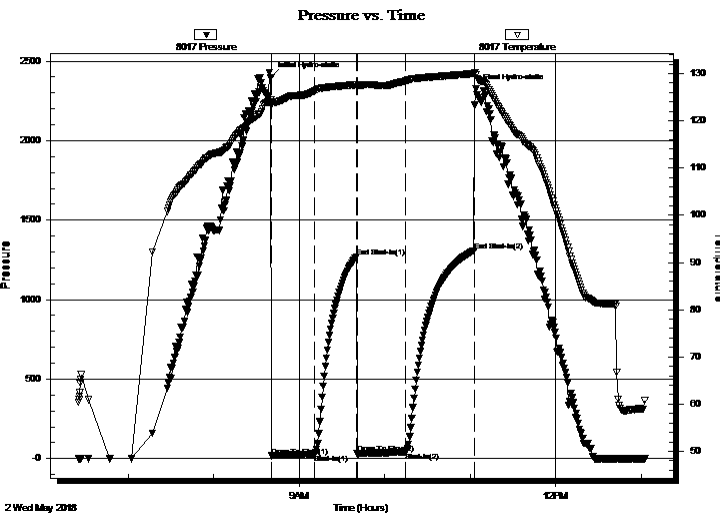
GENERAL INFORMATION:

Formation: **Pawnee - Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:40:30
Time Test Ended: 13:02:45
Interval: **4654.00 ft (KB) To 4769.00 ft (KB) (TVD)**
Total Depth: 4769.00 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: 3448.00 ft (KB)
3440.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8017 Outside

Press@RunDepth: 39.25 psig @ 4655.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.05.02 End Date: 2018.05.02 Last Calib.: 2018.05.02
Start Time: 06:25:05 End Time: 13:02:44 Time On Btm: 2018.05.02 @ 08:40:15
Time Off Btm: 2018.05.02 @ 11:04:00

TEST COMMENT: 30 - IF: Blow built to 1 1/4"
30 - IS: No blow back
30 - FF: Surface blow from 14 min. till close
45 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2400.56	124.43	Initial Hydro-static
1	16.58	123.22	Open To Flow (1)
31	27.13	126.34	Shut-In(1)
60	1269.33	127.64	End Shut-In(1)
61	30.64	126.96	Open To Flow (2)
95	39.25	128.47	Shut-In(2)
143	1309.83	129.99	End Shut-In(2)
144	2325.98	129.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	Mud w/oil spots 99%m, 1%o	0.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chizum Oil, LLC

26-7s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Lazy Heart #1-26

Job Ticket: 63272

DST#: 4

ATTN: Tim Priest

Test Start: 2018.05.02 @ 06:25:00

Tool Information

Drill Pipe:	Length: 4459.00 ft	Diameter: 3.80 inches	Volume: 62.55 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 63.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4654.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	115.00 ft			
Tool Length:	136.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4634.00	
Shut In Tool	5.00			4639.00	
Hydraulic tool	5.00			4644.00	
Packer	5.00			4649.00	21.00 Bottom Of Top Packer
Packer	5.00			4654.00	
Packer - Shale	0.00			4654.00	
Stubb	1.00			4655.00	
Recorder	0.00	6625	Inside	4655.00	
Recorder	0.00	8017	Outside	4655.00	
Perforations	15.00			4670.00	
Blank Spacing	96.00			4766.00	
Bullnose	3.00			4769.00	115.00 Bottom Packers & Anchor

Total Tool Length: 136.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil, LLC

26-7s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Lazy Heart #1-26

Job Ticket: 63272

DST#: 4

ATTN: Tim Priest

Test Start: 2018.05.02 @ 06:25:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

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 bbbl
58.00	Mud w /oil spots 99%m, 1%o	0.285

Total Length: 58.00 ft Total Volume: 0.285 bbl

Num Fluid Samples: 0

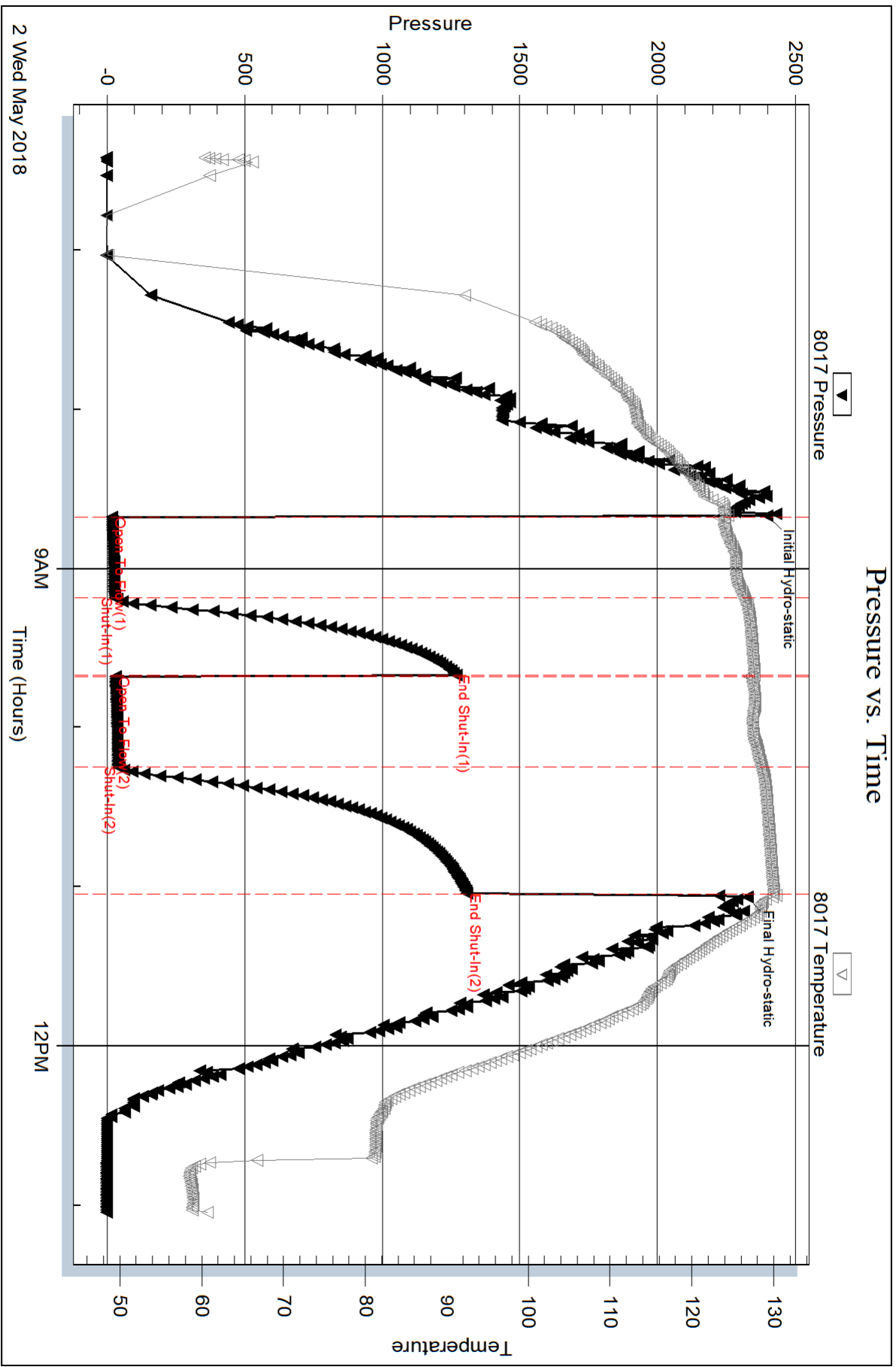
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



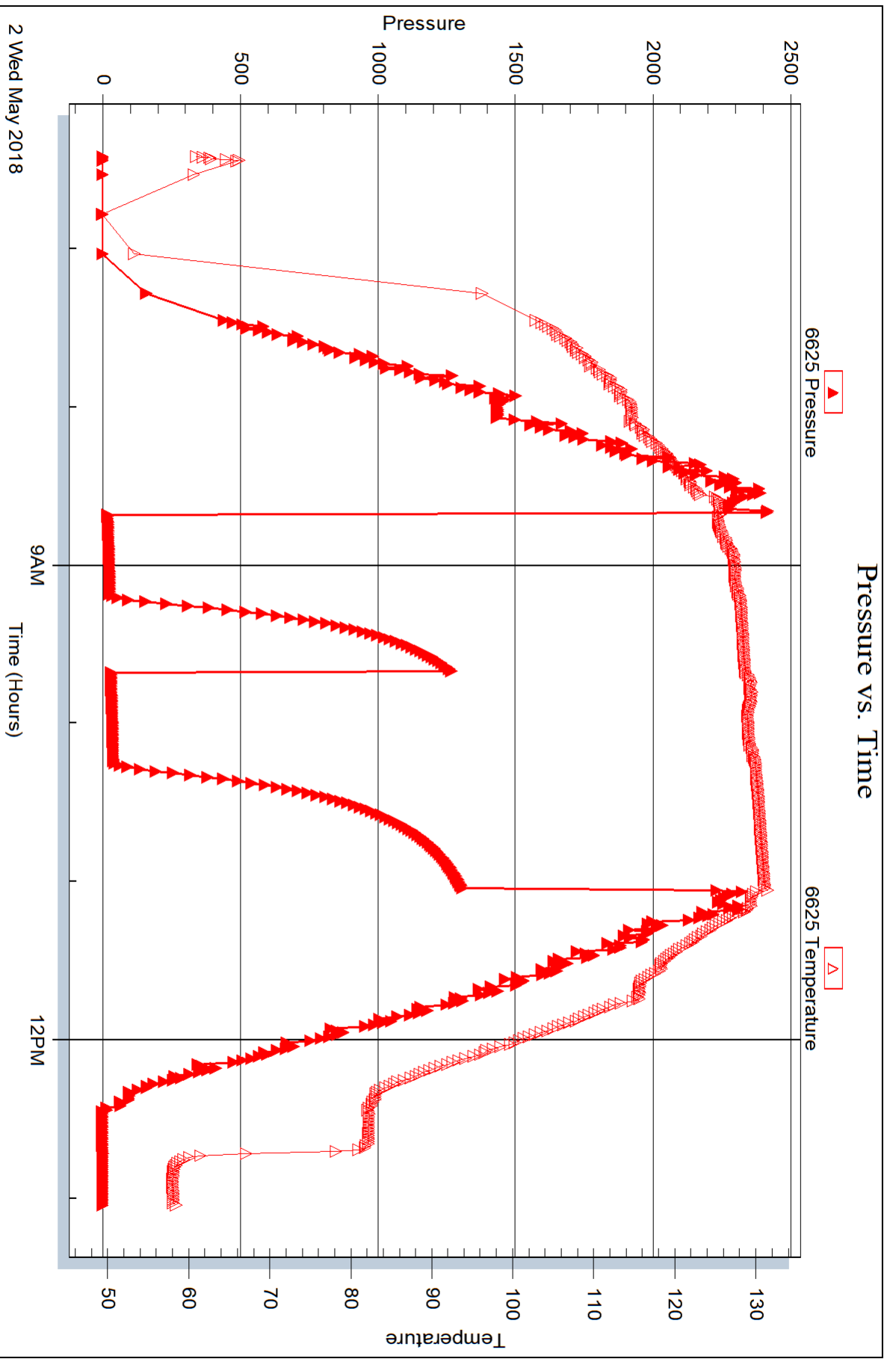
Serial #: 6625

Inside

Chizum Oil, LLC

Lazy Heart #1-26

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 63272

Printed: 2018.05.03 @ 09:27:04



DRILL STEM TEST REPORT

Prepared For: **Chizum Oil, LLC**

PO Box 123
Andover, KS 67002

ATTN: Tim Priest

Lazy Heart #1-26

26-7s-37w Sherman,KS

Start Date: 2018.05.02 @ 23:05:00

End Date: 2018.05.03 @ 05:04:45

Job Ticket #: 63273 DST #: 5

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

Printed: 2018.05.03 @ 09:26:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chizum Oil, LLC
PO Box 123
Andover, KS 67002
ATTN: Tim Priest

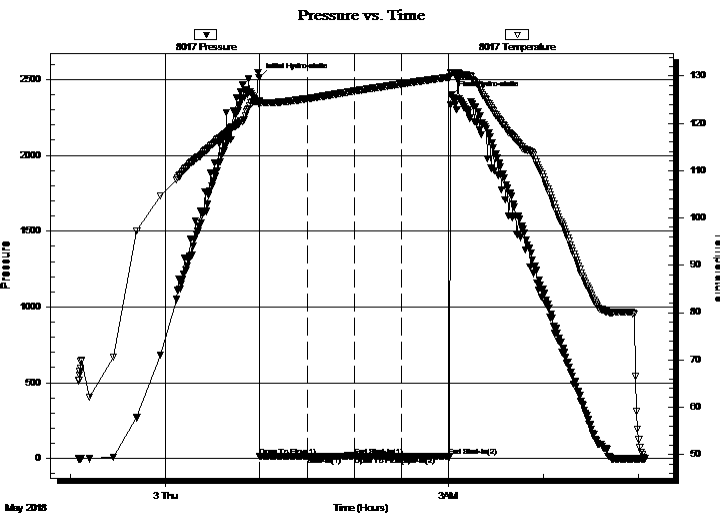
26-7s-37w Sherman, KS
Lazy Heart #1-26
Job Ticket: 63273 **DST#: 5**
Test Start: 2018.05.02 @ 23:05:00

GENERAL INFORMATION:

Formation: Johnson			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 00:59:45		Tester: James Winder	
Time Test Ended: 05:04:45		Unit No: 83	
Interval: 4770.00 ft (KB) To 4795.00 ft (KB) (TVD)		Reference Elevations: 3448.00 ft (KB)	
Total Depth: 4795.00 ft (KB) (TVD)		3440.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft	

Serial #: 8017	Outside			
Press@RunDepth: 14.14 psig @ 4771.00 ft (KB)		Capacity: 8000.00 psig		
Start Date: 2018.05.02	End Date: 2018.05.03	Last Calib.: 2018.05.03		
Start Time: 23:05:05	End Time: 05:04:44	Time On Btm: 2018.05.03 @ 00:59:30		
		Time Off Btm: 2018.05.03 @ 03:01:30		

TEST COMMENT: 30 - IF: Blow built to 1/4"
 30 - IS: No blow back
 30 - FF: No blow
 30 - FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2511.39	124.71	Initial Hydro-static
1	13.52	123.91	Open To Flow (1)
31	14.78	125.21	Shut-In(1)
61	17.48	126.81	End Shut-In(1)
61	13.38	126.81	Open To Flow (2)
91	14.14	128.32	Shut-In(2)
121	16.57	129.73	End Shut-In(2)
122	2396.23	130.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chizum Oil, LLC

26-7s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Lazy Heart #1-26

Job Ticket: 63273

DST#: 5

ATTN: Tim Priest

Test Start: 2018.05.02 @ 23:05:00

Tool Information

Drill Pipe:	Length: 4584.00 ft	Diameter: 3.80 inches	Volume: 64.30 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 65.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4770.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4750.00	
Shut In Tool	5.00			4755.00	
Hydraulic tool	5.00			4760.00	
Packer	5.00			4765.00	21.00 Bottom Of Top Packer
Packer	5.00			4770.00	
Packer - Shale	0.00			4770.00	
Stubb	1.00			4771.00	
Recorder	0.00	6625	Inside	4771.00	
Recorder	0.00	8017	Outside	4771.00	
Perforations	21.00			4792.00	
Bullnose	3.00			4795.00	25.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil, LLC

26-7s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Lazy Heart #1-26

Job Ticket: 63273

DST#: 5

ATTN: Tim Priest

Test Start: 2018.05.02 @ 23:05:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
1.00	Mud 100%	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

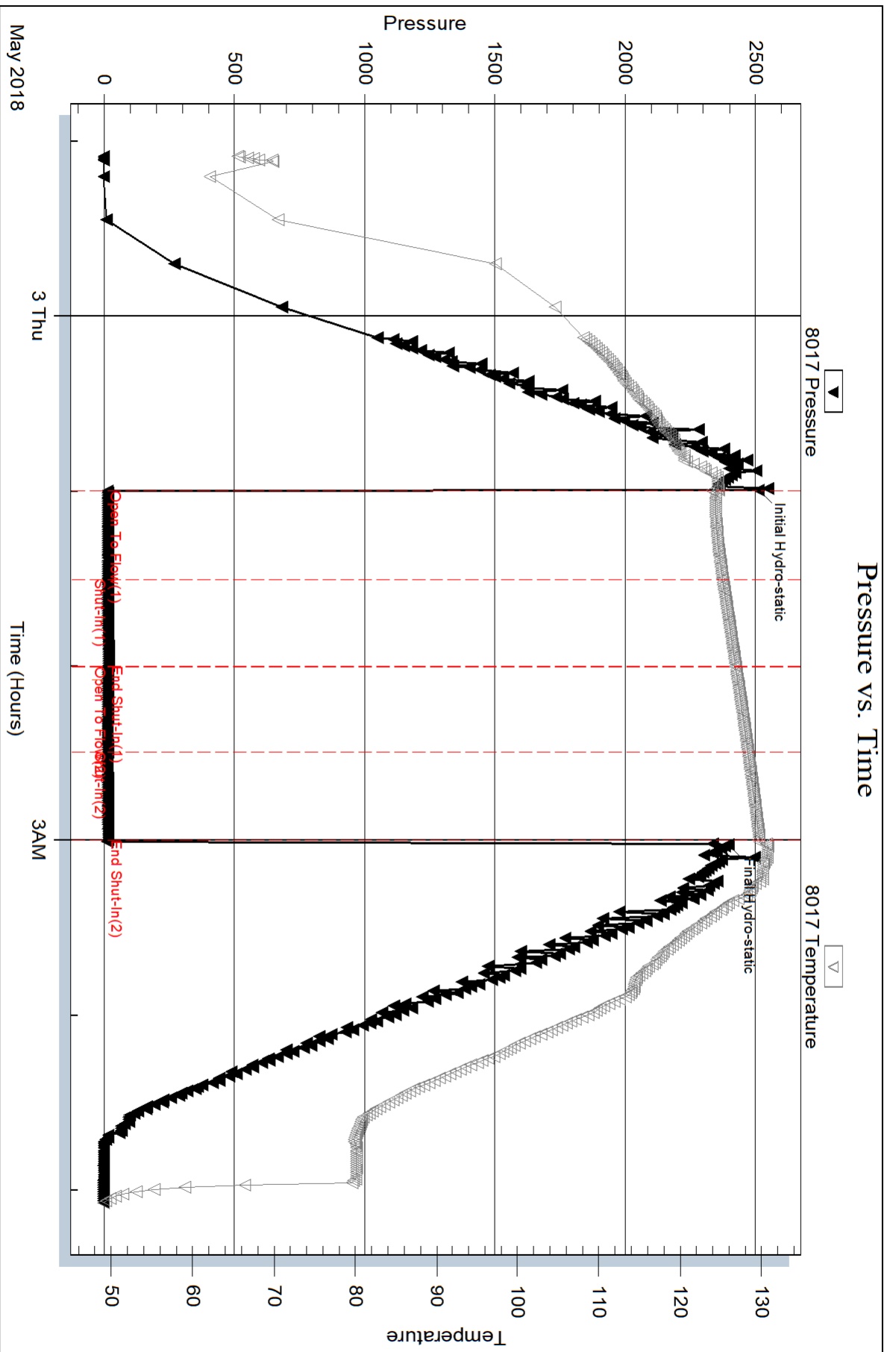
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



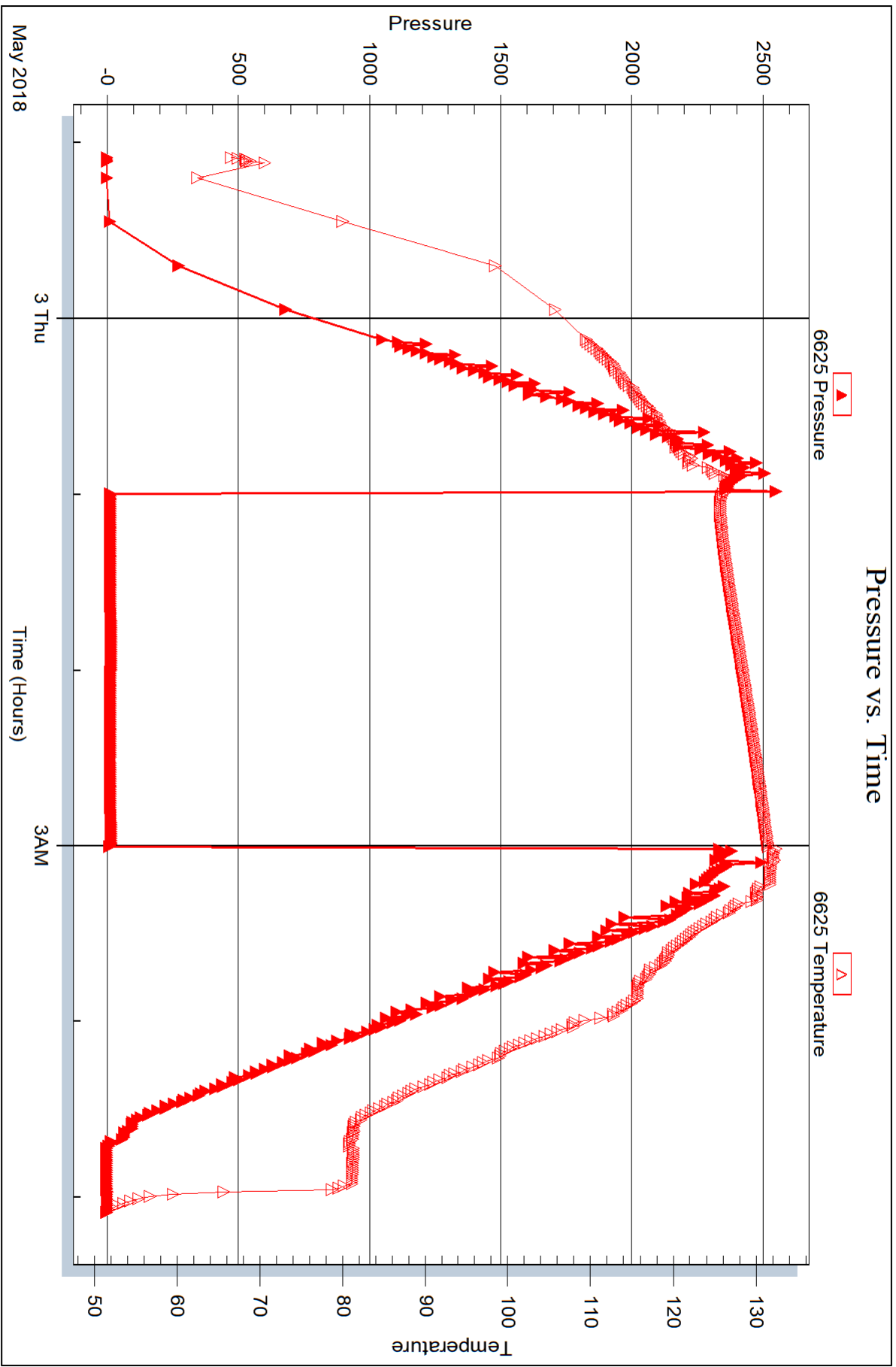
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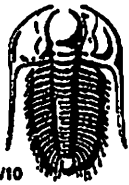
Inside

Chizum Oil, LLC

Lazy Heart #1-26

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63269

Well Name & No. Lazy Heart #1-26 Test No. 1 Date 4-29-18
 Company Chizum Oil LLC Elevation 3448 KB 3440 GL
 Address PO Box 123 Andover, KS 67002
 Co. Rep / Geo. Tim Priest Rig W2W #12
 Location: Sec. 26 Twp 7S Rge. 37W Co. Sherman State Ks

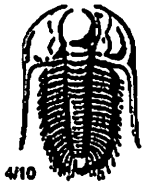
Interval Tested 4390 - 4470 Zone Tested LKC "H-J"
 Anchor Length 80 Drill Pipe Run 4204 Mud Wt. 9.4
 Top Packer Depth 4385 Drill Collars Run 180 Vis 54
 Bottom Packer Depth 4390 (shale) Wt. Pipe Run - WL 10.4
 Total Depth 4470 Chlorides 5000 ppm System LCM 1/2
 Blow Description IF: 1/4" Blow at Open, built to 1 1/4"
ISI: No blowback
FF: Blow built to 1"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>mcw</u>	<u>-</u>	<u>-</u>	<u>91</u>	<u>9</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70 BHT 127 Gravity _____ API RW .086 @ 78.2 °F Chlorides 82,000 ppm

(A) Initial Hydrostatic 2263 Test 1150 T-On Location 11:30
 (B) First Initial Flow 14 Jars _____ T-Started 12:37
 (C) First Final Flow 28 Safety Joint _____ T-Open 15:03
 (D) Initial Shut-In 1331 Circ Sub _____ T-Pulled 17:51
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 19:55
 (F) Second Final Flow 54 Mileage 166 RT 166 Comments Hotel
 (G) Final Shut-In 1337 Sampler _____
 (H) Final Hydrostatic 2198 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1566
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1566

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



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63270

Well Name & No. Lazy Heart #1-26 Test No. 2 Date 4-30-18
 Company Chizum Oil LLC Elevation 3448 KB 3440 GL
 Address PO Box 123 Andover, KS 67002
 Co. Rep / Geo. Tim Priest Rig LW #12
 Location: Sec. 26 Twp 7s Rge. 37w Co. Sherman State KS

Interval Tested 4474 - 4605 Zone Tested LKC "K" - marmaton "B"
 Anchor Length 131 Drill Pipe Run 4297 Mud Wt. 9.2
 Top Packer Depth 4469 Drill Collars Run 180 Vis 48
 Bottom Packer Depth 4474 (shale) Wt. Pipe Run - WL 7.2
 Total Depth 4605 Chlorides 4400 ppm System LCM 1 1/2
 Blow Description IF: 1/4" Blow at open, built to 3 1/2"
ISI: No blowback
FF: Blow built to 2"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>SWMCO</u>	<u>90</u>	<u>4</u>	<u>6</u>	
<u>175</u>	<u>MCW w/oil spots</u>	<u>1</u>	<u>61</u>	<u>37</u>	

Rec Total 181 BHT 130 Gravity 32.8 API RW 221 @ 61.8 °F Chlorides 37,000 ppm

(A) Initial Hydrostatic 2179 Test 1150 T-On Location 13:20
 (B) First Initial Flow 16 Jars _____ T-Started 14:25
 (C) First Final Flow 50 Safety Joint _____ T-Open 17:56
 (D) Initial Shut-In 1384 Circ Sub _____ T-Pulled 20:43
 (E) Second Initial Flow 55 Hourly Standby _____ T-Out 23:15
 (F) Second Final Flow 95 Mileage 166 RT 166 Comments Flour manifold valve
 (G) Final Shut-In 1384 Sampler _____ open for first 7min of Final
 (H) Final Hydrostatic 2173 Straddle _____ open. - Rig repairs on trip
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____ Sub Total 0
 Initial Shut-In 30 Extra Recorder _____ Total 1566
 Final Flow 45 Day Standby _____ MP/DST Disc't _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1566

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63271

Well Name & No. Lazy Heart #1-26 Test No. 3 Date 5-1-18
 Company Chizum Oil LLC Elevation 3448 KB 3440 GL
 Address PO Box 123 Andover, KS 67002
 Co. Rep / Geo. Tim Priest Rig WW #12
 Location: Sec. 26 Twp 7s Rge. 37w Co. Sherman State KS

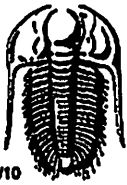
Interval Tested 4607-4635 Zone Tested Marmaton "C"
 Anchor Length 28 Drill Pipe Run 4424 Mud Wt. 9.4
 Top Packer Depth 4602 Drill Collars Run 180 Vls 49
 Bottom Packer Depth 4607 (Shale) Wt. Pipe Run - WL 8.8
 Total Depth 4635 Chlorides 5000 ppm System LCM 2
 Blow Description IF: Blow built to 1/2"
ISI: No blowback
FF: No blow
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>WCM</u>		<u>20</u>	<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 128 Gravity _____ API RW .365 @ 66 °F Chlorides 20,000 ppm

(A) Initial Hydrostatic 2419 Test 1150 T-On Location 6:50
 (B) First Initial Flow 14 Jars _____ T-Started 7:24
 (C) First Final Flow 15 Safety Joint _____ T-Open 9:33
 (D) Initial Shut-In 19 Circ Sub _____ T-Pulled 11:52
 (E) Second Initial Flow 13 Hourly Standby _____ T-Out 13:40
 (F) Second Final Flow 14 Mileage 166RT 166 Comments _____
 (G) Final Shut-In 22 Sampler _____
 (H) Final Hydrostatic 2327 Straddle _____ Ruined Shale Packer 350
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____ Sub Total 350
 Initial Shut-In 30 Extra Recorder _____ Total 1916
 Final Flow 30 Day Standby _____ MP/DST Disc't _____
 Final Shut-In 45 Accessibility _____
 Sub Total 1566

Approved By _____ Our Representative Janna Wilder Hotel
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63272

Well Name & No. Lazy Heart #1-26 Test No. 4 Date 5-2-18
 Company Chizum Oil LLC Elevation 3448 KB 3440 GL
 Address PO Box 123 Andover KS 67002
 Co. Rep / Geo. Tim Priest Rig WW #12
 Location: Sec. 26 Twp 7S Rge. 37W Co. Sherman State KS

Interval Tested 4654-4769 Zone Tested Pawnee-Cherokee
 Anchor Length 115 Drill Pipe Run 4459 Mud Wt. 9.4
 Top Packer Depth 4649 Drill Collars Run 180 Vis 52
 Bottom Packer Depth 4654 (shale) Wt. Pipe Run - WL 8.0
 Total Depth 4769 Chlorides 6000 ppm System LCM 3

Blow Description IF: Blow built to 1 1/4"
ISI: No blowback
FF: Surface blow from 14 min till close
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>58</u>	<u>mud w/oil spots</u>	<u>1</u>		<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 58 BHT 130 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2401
 (B) First Initial Flow 17
 (C) First Final Flow 27
 (D) Initial Shut-In 1269
 (E) Second Initial Flow 31
 (F) Second Final Flow 39
 (G) Final Shut-In 1310
 (H) Final Hydrostatic 2326

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 45

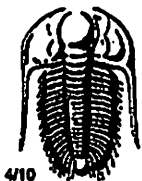
Test 1150
 Jars _____
 Safety Joint _____
 Circ Sub _____
 Hourly Standby _____
 Mileage 166RT 166
 Sampler _____
 Straddle _____
 Shale Packer 250
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1566

T-On Location 6:05
 T-Started 6:25
 T-Open 8:40
 T-Pulled 11:02
 T-Out 12:55

Comments _____
 Ruined Shale Packer 350
 Ruined Packer _____
 Extra Copies _____
 Sub Total 350
 Total 1916
 MP/DST Disc't _____

Approved By _____ Our Representative James Walker Hotel

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TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63273

Well Name & No. Lazy Heart #1-26 Test No. 5 Date 5-2-18
 Company Chizum Oil LLC Elevation 3448 KB 3440 GL
 Address PO Box 123 Andover, KS 67002
 Co. Rep / Geo. Tim Priest Rig WW #12
 Location: Sec. 26 Twp 7s Rge. 37w Co. Sherman State KS

Interval Tested 4770 - 4795 Zone Tested Johnson
 Anchor Length 25 Drill Pipe Run 4584 Mud Wt. 9.4
 Top Packer Depth 4765 Drill Collars Run 180 Vls 52
 Bottom Packer Depth 4770 (shale) Wt. Pipe Run - WL 8.0
 Total Depth 4795 Chlorides 6000 ppm System LCM 2
 Blow Description IF: Blow built to 1/4"
ISI: No blowback
FF: No blow
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 130 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2511 Test 1150 T-On Location 22:00
 (B) First Initial Flow 14 Jars _____ T-Started 23:05
 (C) First Final Flow 15 Safety Joint _____ T-Open 00:59
 (D) Initial Shut-In 17 Circ Sub _____ T-Pulled 3:00
 (E) Second Initial Flow 13 Hourly Standby _____ T-Out 5:05
 (F) Second Final Flow 14 Mileage 166 RT 166 Comments _____
 (G) Final Shut-In 17 Sampler _____
 (H) Final Hydrostatic 2396 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1566
 Sub Total 1566 MP/DST Disc't _____

Approved By _____ Our Representative James Winder Hotel
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