

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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DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 123
Andover, KS 67002

ATTN: Tim Priest

Quenzer #1-27

27-07s-37w Sherman,KS

Start Date: 2017.06.25 @ 14:25:44

End Date: 2017.06.25 @ 19:53:14

Job Ticket #: 63820 DST #: 1

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

Printed: 2017.06.30 @ 14:02:03

Chizum Oil LLC
27-07s-37w Sherman,KS
Quenzer #1-27
DST # 1
LKC H - J
2017.06.25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

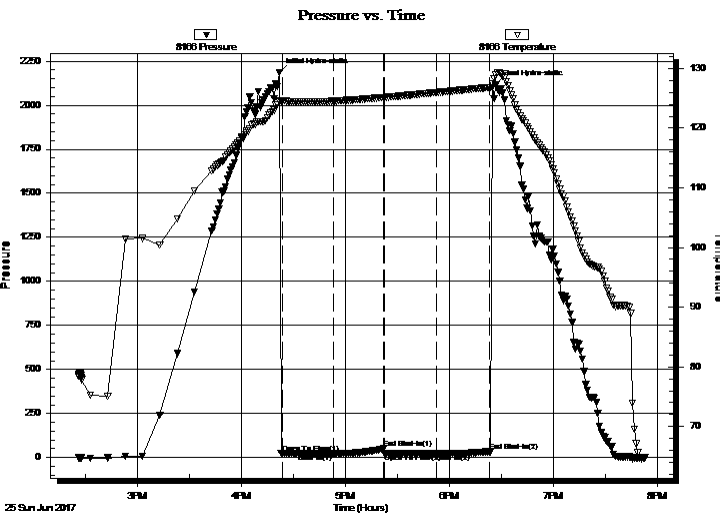
27-07s-37w Sherman,KS
Quenzer #1-27
 Job Ticket: 63820 **DST#: 1**
 Test Start: 2017.06.25 @ 14:25:44

GENERAL INFORMATION:

Formation: **LKC H - J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:23:44 Tester: Brandon Turley
 Time Test Ended: 19:53:14 Unit No: 79
 Interval: **4347.00 ft (KB) To 4430.00 ft (KB) (TVD)** Reference Elevations: 3417.00 ft (KB)
 Total Depth: 4430.00 ft (KB) (TVD) 3412.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 22.54 psig @ 4348.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.25 End Date: 2017.06.25 Last Calib.: 2017.06.25
 Start Time: 14:25:49 End Time: 19:53:13 Time On Btm: 2017.06.25 @ 16:21:44
 Time Off Btm: 2017.06.25 @ 18:26:44

TEST COMMENT: IF: 1/4" blow died in 10 min.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.00	124.47	Initial Hydro-static
2	24.04	124.65	Open To Flow (1)
31	21.98	124.53	Shut-In(1)
60	50.17	125.15	End Shut-In(1)
61	23.45	125.15	Open To Flow (2)
91	22.54	125.97	Shut-In(2)
122	34.66	126.83	End Shut-In(2)
125	2116.92	129.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chizum Oil LLC

27-07s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Quenzer #1-27

Job Ticket: 63820

DST#: 1

ATTN: Tim Priest

Test Start: 2017.06.25 @ 14:25:44

Tool Information

Drill Pipe:	Length: 4223.00 ft	Diameter: 3.80 inches	Volume: 59.24 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4347.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4328.00	
Shut In Tool	5.00			4333.00	
Hydraulic tool	5.00			4338.00	
Packer	5.00			4343.00	20.00 Bottom Of Top Packer
Packer	4.00			4347.00	
Stubb	1.00			4348.00	
Recorder	0.00	8875	Inside	4348.00	
Recorder	0.00	8166	Outside	4348.00	
Perforations	11.00			4359.00	
Change Over Sub	1.00			4360.00	
Drill Pipe	64.00			4424.00	
Change Over Sub	1.00			4425.00	
Bullnose	5.00			4430.00	83.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil LLC

27-07s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Quenzer #1-27

Job Ticket: 63820

DST#: 1

ATTN: Tim Priest

Test Start: 2017.06.25 @ 14:25:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

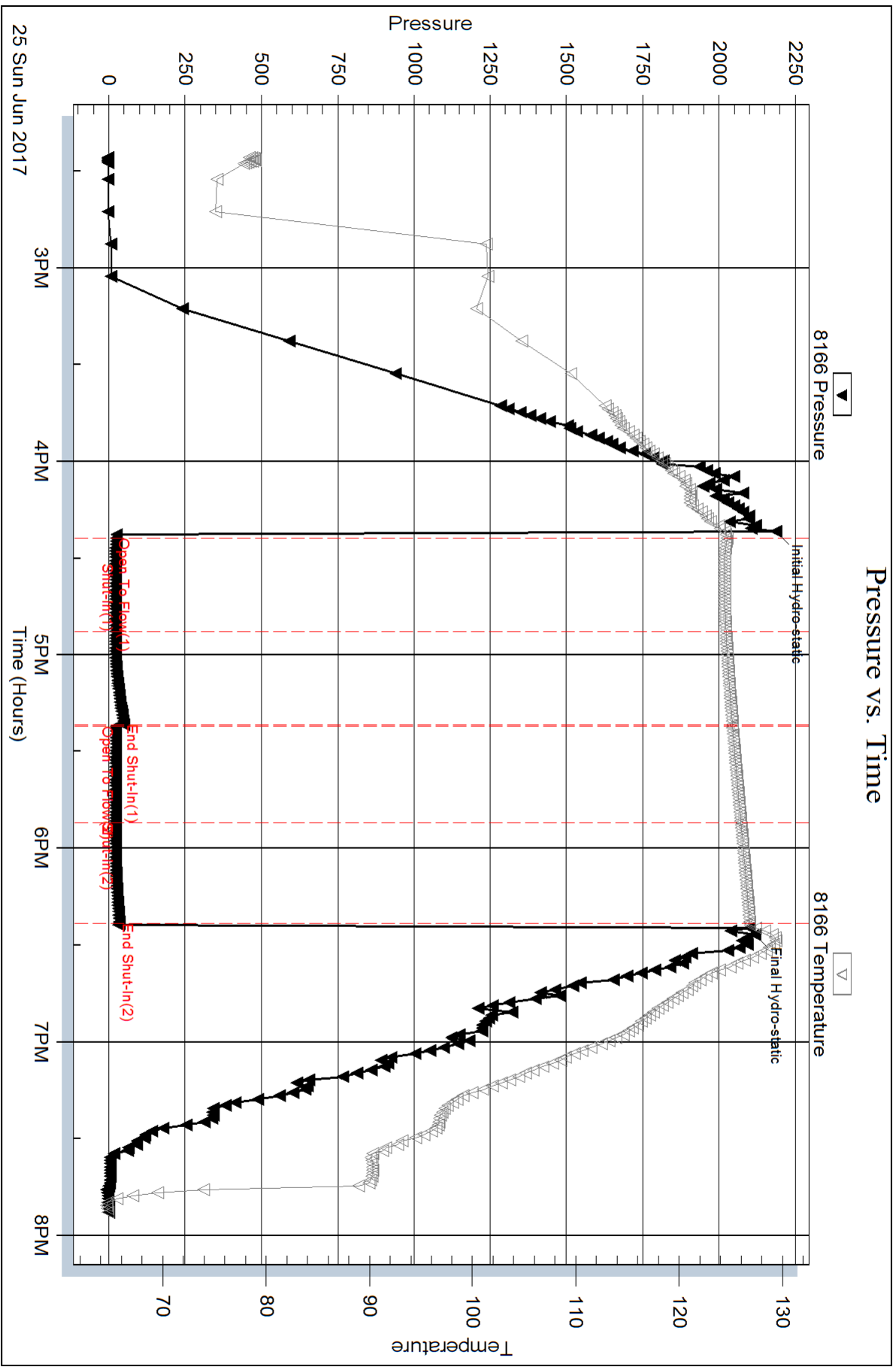
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



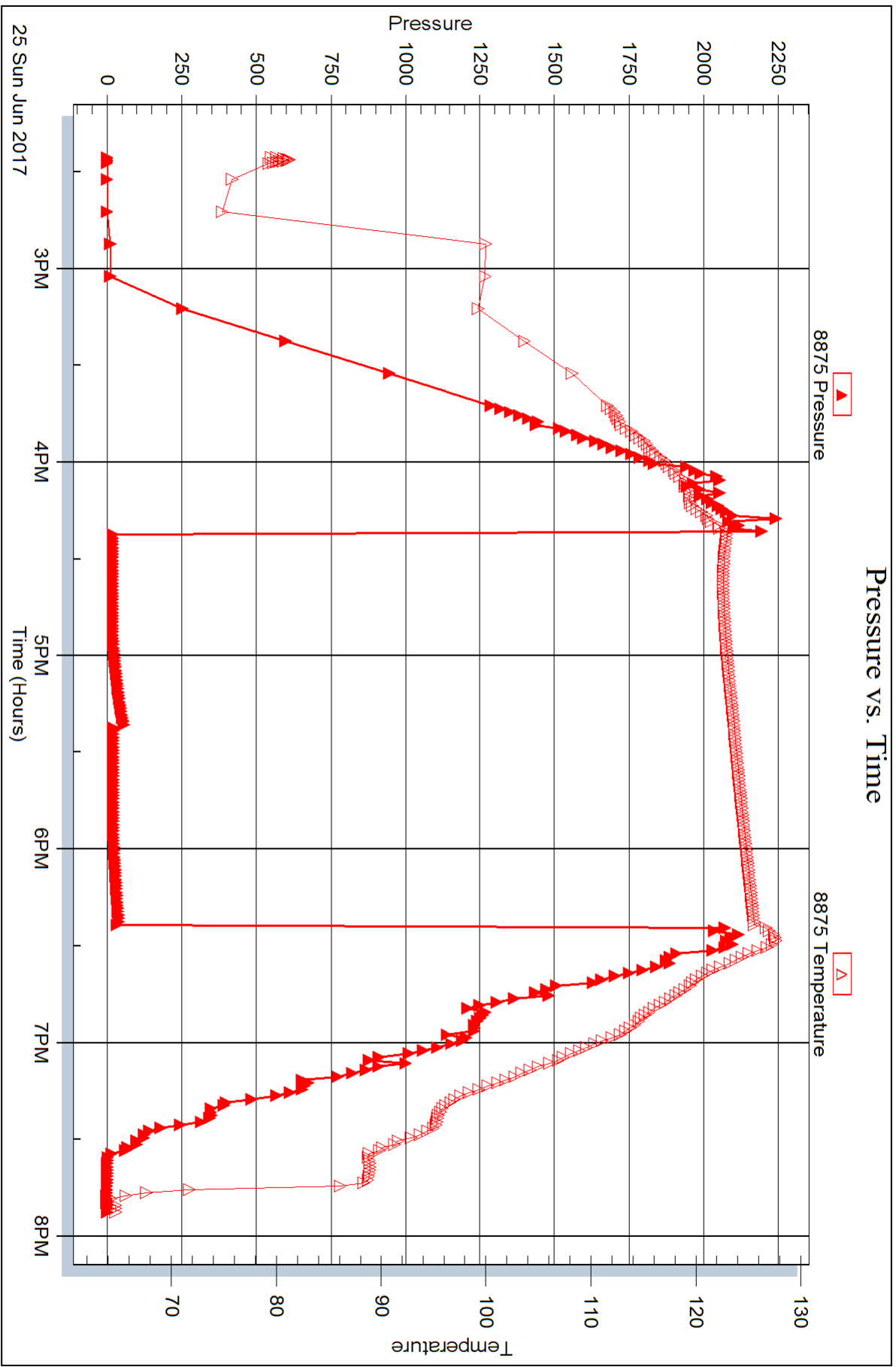
Serial #: 8875

Inside

Chizum Oil LLC

Quenzer #1-27

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 123
Andover, KS 67002

ATTN: Tim Priest

Quenzer #1-27

27-07s-37w Sherman,KS

Start Date: 2017.06.26 @ 09:58:48

End Date: 2017.06.26 @ 16:34:18

Job Ticket #: 63821 DST #: 2

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

Printed: 2017.06.30 @ 13:57:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

27-07s-37w Sherman, KS
Quenzer #1-27
 Job Ticket: 63821 **DST#: 2**
 Test Start: 2017.06.26 @ 09:58:48

GENERAL INFORMATION:

Formation: **LKC L - Altamont A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:52:18
 Time Test Ended: 16:34:18
 Interval: **4473.00 ft (KB) To 4550.00 ft (KB) (TVD)**
 Total Depth: 4550.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3417.00 ft (KB)
 3412.00 ft (CF)
 KB to GR/CF: 5.00 ft

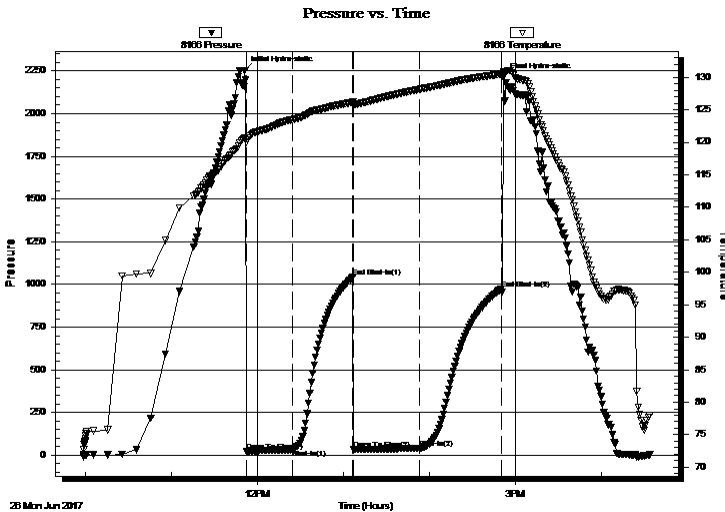
Serial #: 8166

Outside

Press@RunDepth: 40.13 psig @ 4478.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.26 End Date: 2017.06.26 Last Calib.: 2017.06.26
 Start Time: 09:58:53 End Time: 16:34:17 Time On Btm: 2017.06.26 @ 11:51:18
 Time Off Btm: 2017.06.26 @ 14:51:48

TEST COMMENT: IF: 1/4" blow built to 1"
 IS: No return.
 FF: Surface blow built to 1/2"
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.39	120.65	Initial Hydro-static
1	23.56	120.01	Open To Flow (1)
34	33.62	123.49	Shut-In(1)
76	1042.31	126.15	End Shut-In(1)
76	34.77	125.86	Open To Flow (2)
122	40.13	128.14	Shut-In(2)
179	974.31	130.46	End Shut-In(2)
181	2210.15	130.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 5%o 95%m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chizum Oil LLC

27-07s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Quenzer #1-27

Job Ticket: 63821

DST#: 2

ATTN: Tim Priest

Test Start: 2017.06.26 @ 09:58:48

Tool Information

Drill Pipe:	Length: 4348.00 ft	Diameter: 3.80 inches	Volume: 60.99 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4473.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4458.00	
Shut In Tool	5.00			4463.00	
Hydraulic tool	5.00			4468.00	
Packer	5.00			4473.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4477.00	
Stubb	1.00			4478.00	
Recorder	0.00	8875	Inside	4478.00	
Recorder	0.00	8166	Outside	4478.00	
Perforations	5.00			4483.00	
Change Over Sub	1.00			4484.00	
Drill Pipe	64.00			4548.00	
Change Over Sub	1.00			4549.00	
Bullnose	5.00			4554.00	81.00 Anchor Tool

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

27-07s-37w Sherman,KS
Quenzer #1-27
 Job Ticket: 63821 **DST#: 2**
 Test Start: 2017.06.26 @ 09:58:48

Mud and Cushion Information

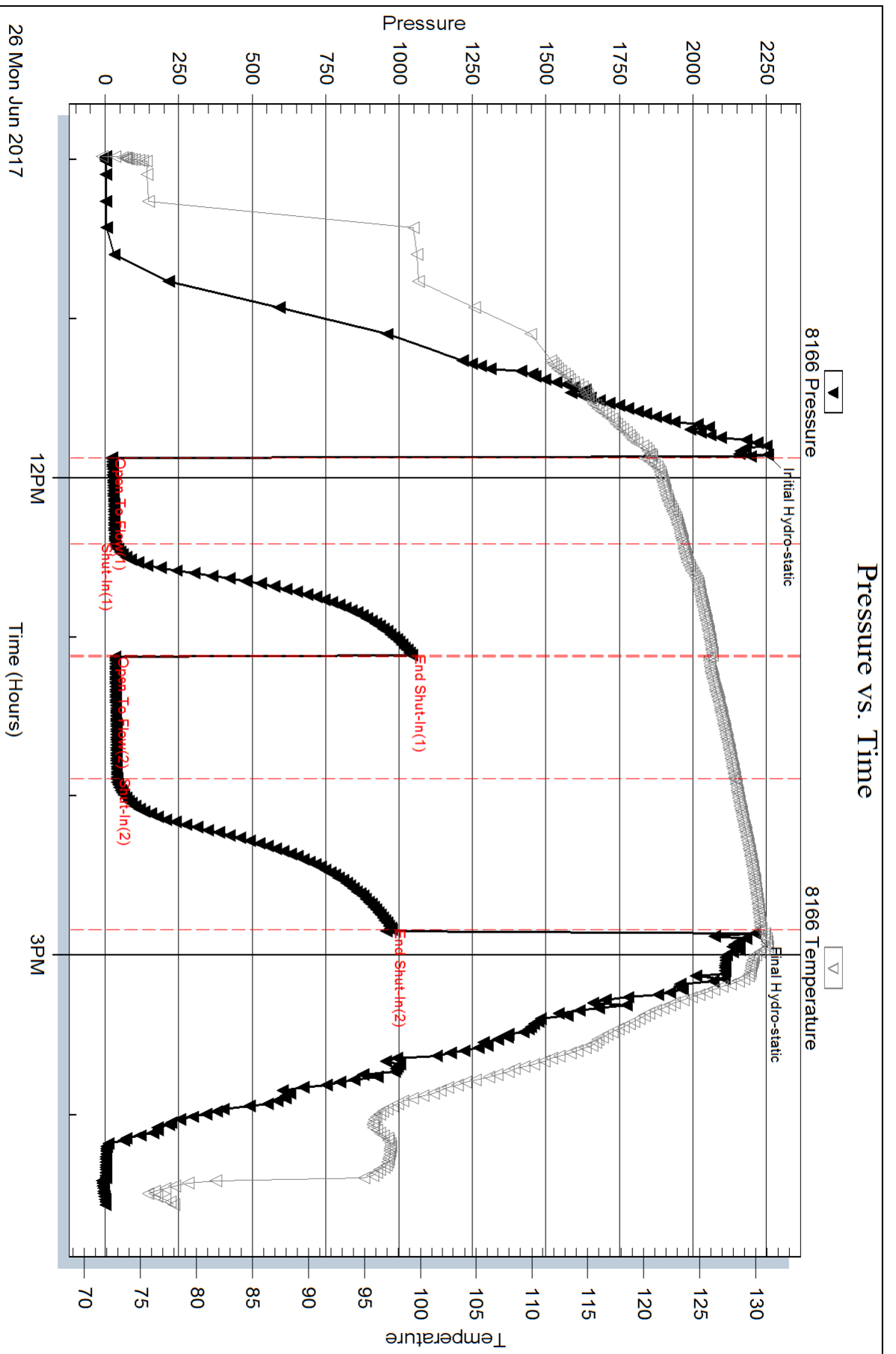
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	ocm 5%o 95%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



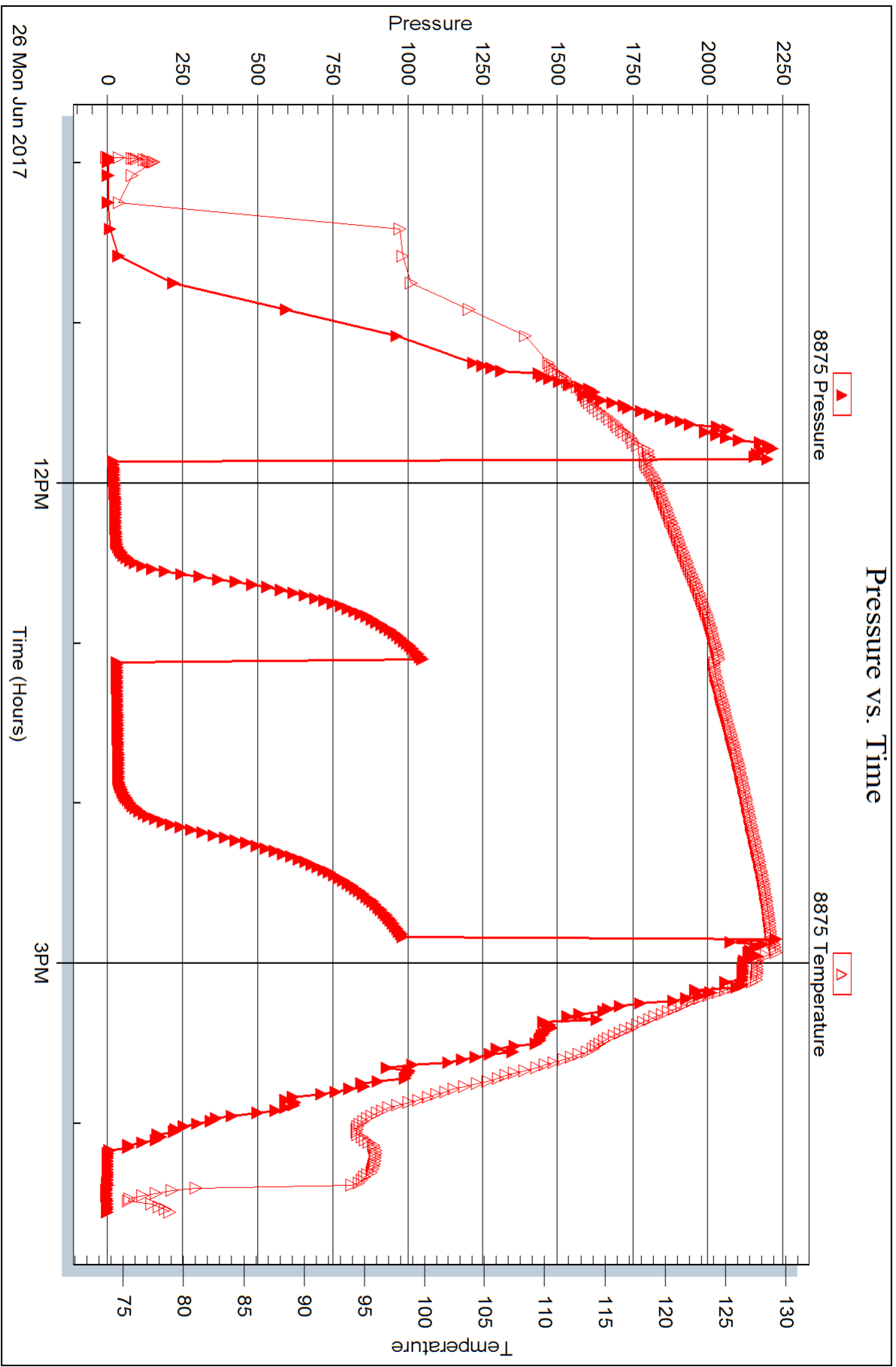
Serial #: 8875

Inside

Chizum Oil LLC

Quenzer #1-27

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 123
Andover, KS 67002

ATTN: Tim Priest

Quenzer #1-27

27-07s-37w Sherman,KS

Start Date: 2017.06.27 @ 04:43:20

End Date: 2017.06.27 @ 13:58:20

Job Ticket #: 63822 DST #: 3

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

Printed: 2017.06.30 @ 13:47:34



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chizum Oil LLC

27-07s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Quenzer #1-27

Job Ticket: 63822

DST#: 3

ATTN: Tim Priest

Test Start: 2017.06.27 @ 04:43:20

Tool Information

Drill Pipe:	Length: 4441.00 ft	Diameter: 3.80 inches	Volume: 62.30 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4564.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4549.00	
Shut In Tool	5.00			4554.00	
Hydraulic tool	5.00			4559.00	
Packer	5.00			4564.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4568.00	
Stubb	1.00			4569.00	
Recorder	0.00	8875	Inside	4569.00	
Recorder	0.00	8166	Outside	4569.00	
Perforations	30.00			4599.00	
Bullnose	5.00			4604.00	40.00 Anchor Tool
Total Tool Length:	56.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chizum Oil LLC

27-07s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Quenzer #1-27

Job Ticket: 63822

DST#: 3

ATTN: Tim Priest

Test Start: 2017.06.27 @ 04:43:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

68000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	mcw 90%w 10%m	0.693
179.00	mcw 70%w 30%m	2.511
41.00	go 10%g 90%o	0.575
0.00	221 GIP	0.000

Total Length: 346.00 ft

Total Volume: 3.779 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 34@90=31

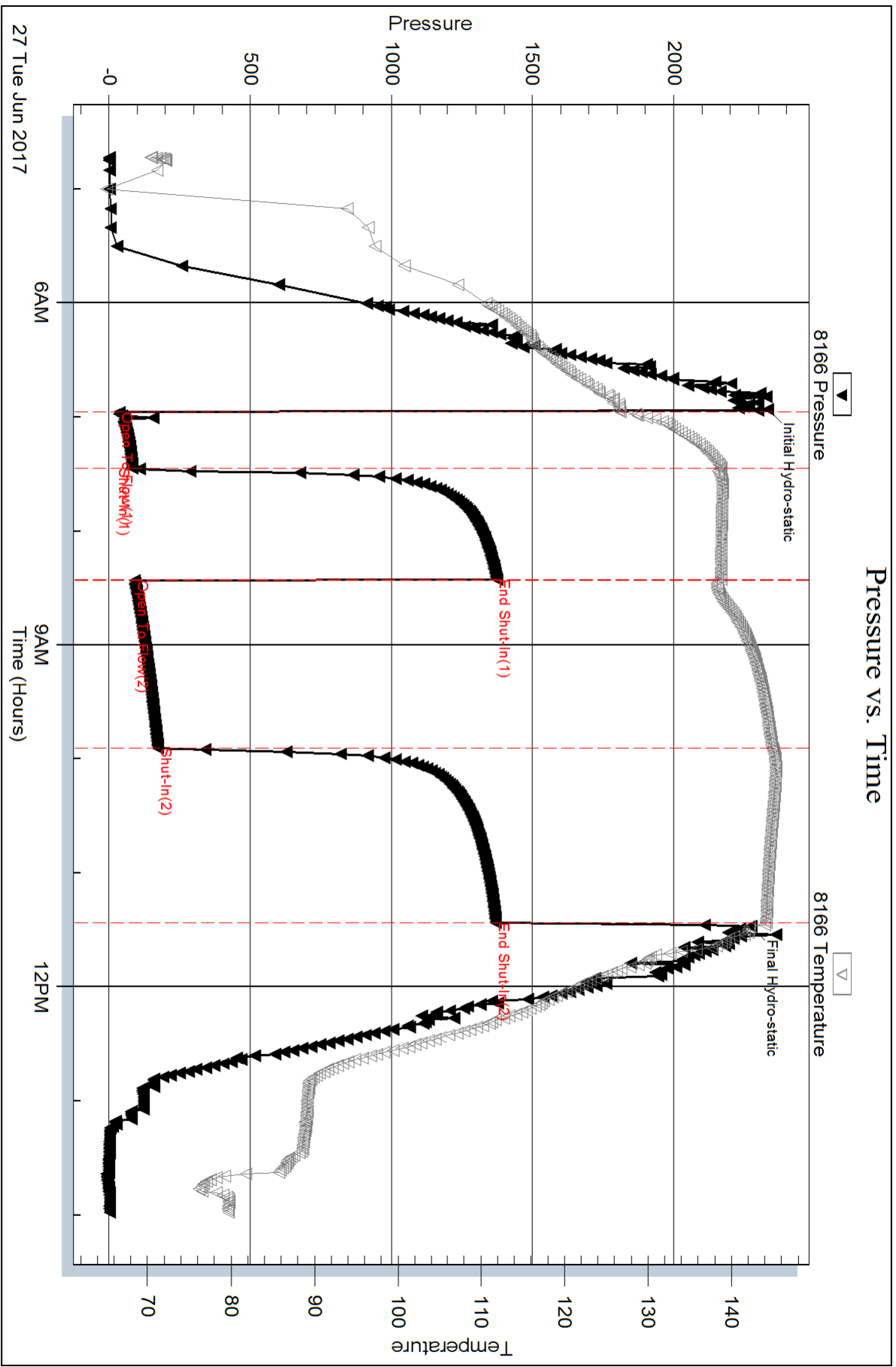
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Serial #: 8166

Outside Chizum Oil LLC

Quenzer #1-27

DST Test Number: 3



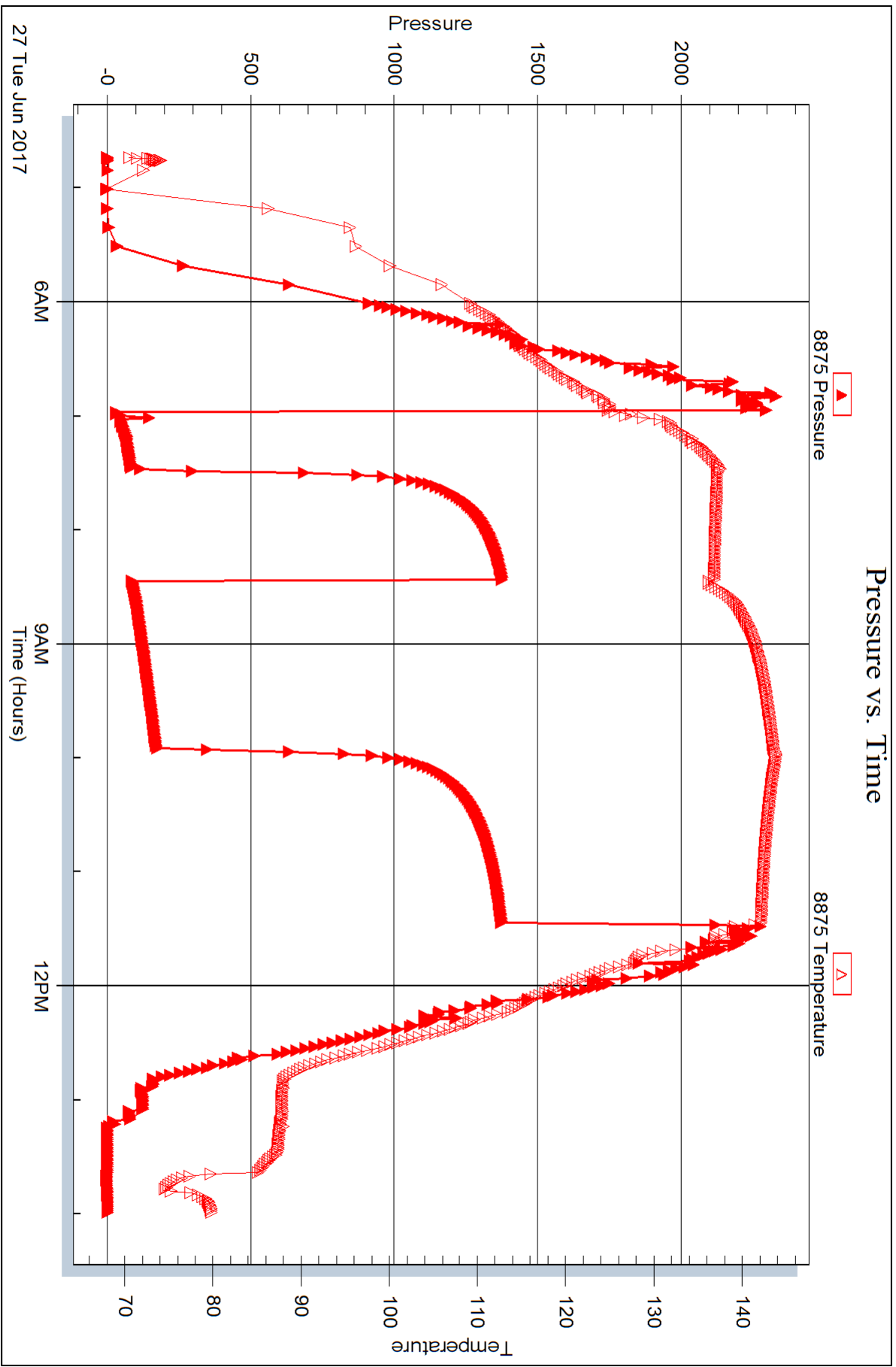
Serial #: 8875

Inside

Chizum Oil LLC

Quenzer #1-27

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 63822

Printed: 2017.06.30 @ 13:47:35



DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 123
Andover, KS 67002

ATTN: Tim Priest

Quenzer #1-27

27-07s-37w Sherman,KS

Start Date: 2017.06.27 @ 23:11:25

End Date: 2017.06.28 @ 05:52:55

Job Ticket #: 63823 DST #: 4

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

Printed: 2017.06.30 @ 13:46:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

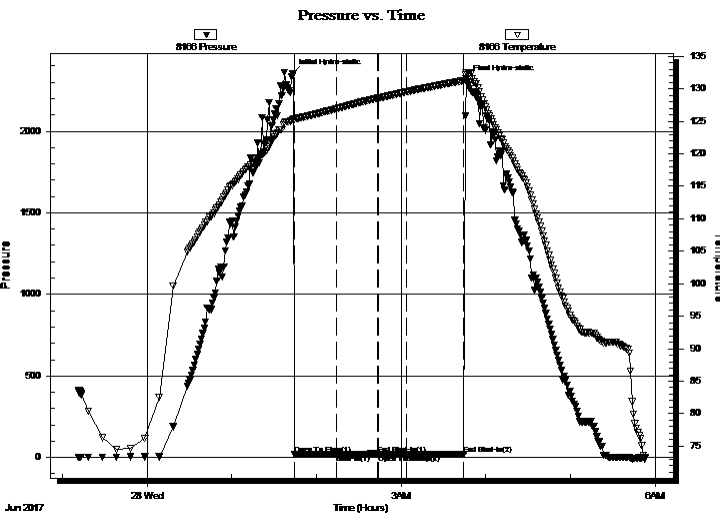
27-07s-37w Sherman,KS
Quenzer #1-27
 Job Ticket: 63823 **DST#: 4**
 Test Start: 2017.06.27 @ 23:11:25

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:44:25
 Time Test Ended: 05:52:55
 Interval: **4605.00 ft (KB) To 4640.00 ft (KB) (TVD)**
 Total Depth: 4640.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3417.00 ft (KB)
 3412.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 20.10 psig @ 4610.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.27 End Date: 2017.06.28 Last Calib.: 2017.06.28
 Start Time: 23:11:30 End Time: 05:52:54 Time On Btm: 2017.06.28 @ 01:42:55
 Time Off Btm: 2017.06.28 @ 03:45:55

TEST COMMENT: IF: 1/4" blow died in 14 min.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2353.98	125.23	Initial Hydro-static
2	18.76	125.27	Open To Flow (1)
32	19.41	126.95	Shut-In(1)
61	21.88	128.56	End Shut-In(1)
61	18.24	128.59	Open To Flow (2)
81	20.10	129.53	Shut-In(2)
122	19.56	131.27	End Shut-In(2)
123	2318.46	132.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	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
PO Box 123
Andover, KS 67002
ATTN: Tim Priest

27-07s-37w Sherman,KS
Quenzer #1-27
Job Ticket: 63823 **DST#: 4**
Test Start: 2017.06.27 @ 23:11:25

Tool Information

Drill Pipe:	Length: 4474.00 ft	Diameter: 3.80 inches	Volume: 62.76 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 63.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4605.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4590.00	
Shut In Tool	5.00			4595.00	
Hydraulic tool	5.00			4600.00	
Packer	5.00			4605.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4609.00	
Stubb	1.00			4610.00	
Recorder	0.00	8875	Inside	4610.00	
Recorder	0.00	8166	Outside	4610.00	
Perforations	29.00			4639.00	
Bullnose	5.00			4644.00	39.00 Anchor Tool
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

27-07s-37w Sherman,KS
Quenzer #1-27
 Job Ticket: 63823 **DST#: 4**
 Test Start: 2017.06.27 @ 23:11:25

Mud and Cushion Information

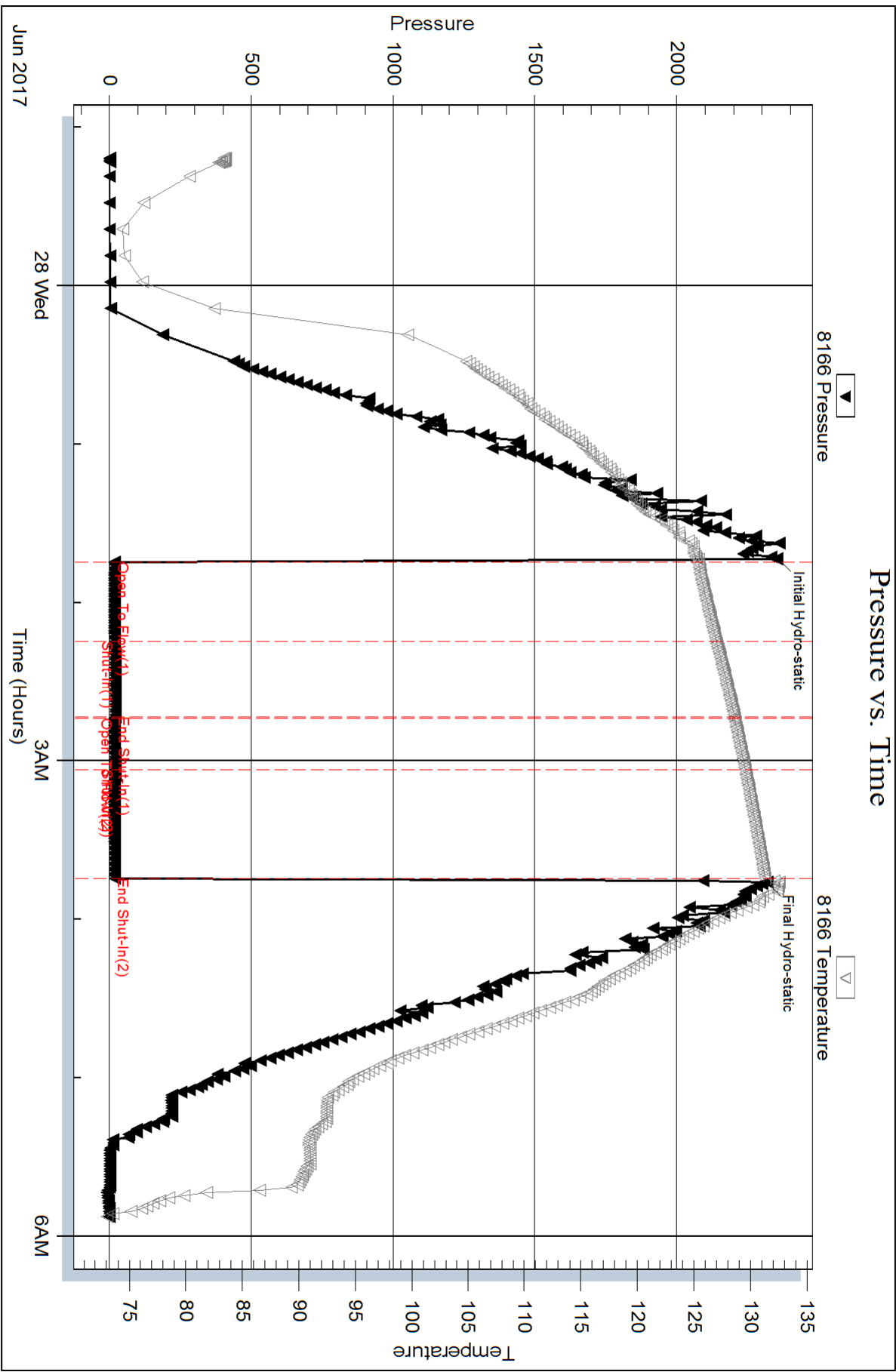
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	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:



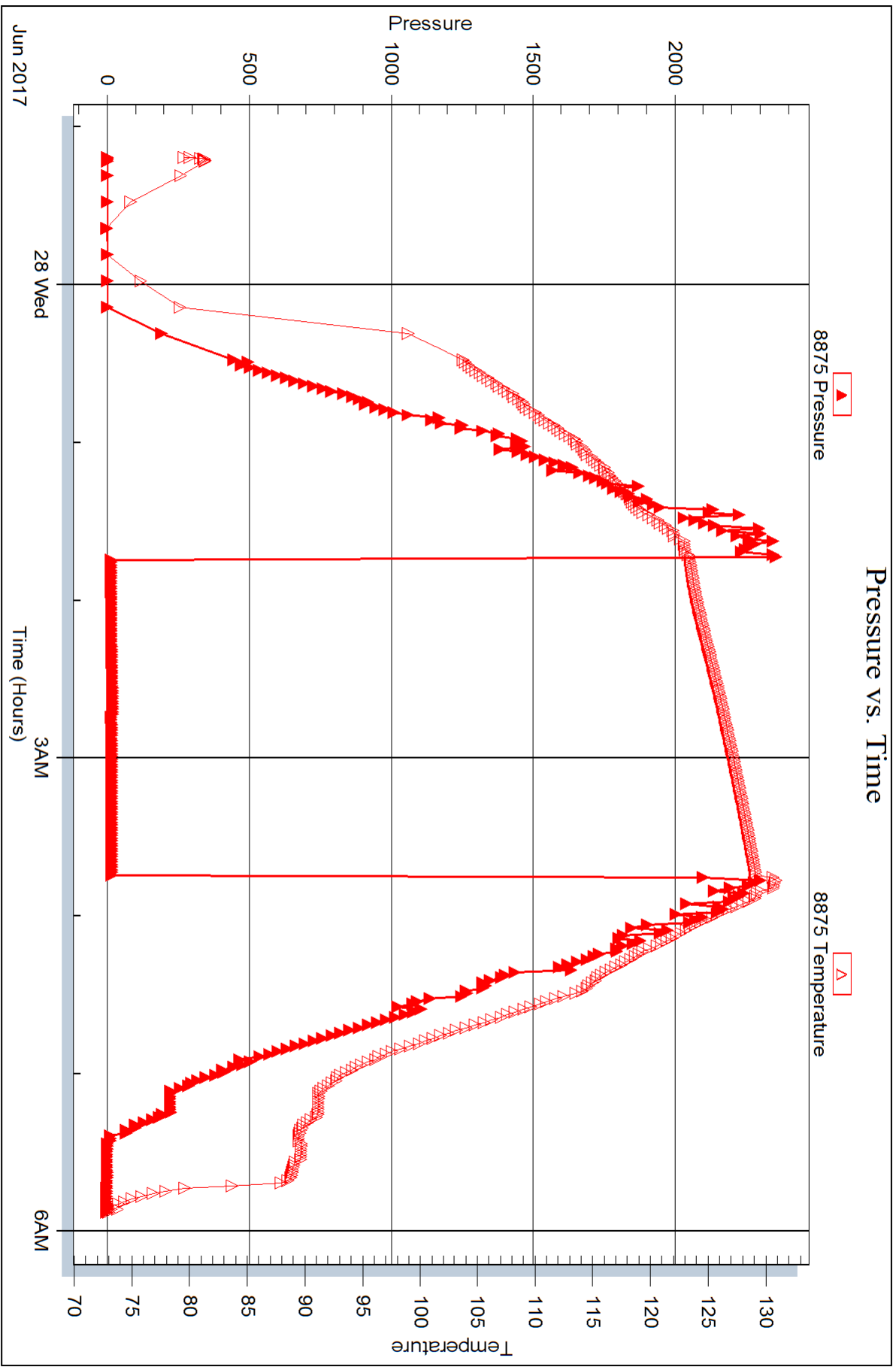
Serial #: 8875

Inside

Chizum Oil LLC

Quenzer #1-27

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Chizum Oil LLC**

PO Box 123
Andover, KS 67002

ATTN: Tim Priest

Quenzer #1-27

27-07s-37w Sherman,KS

Start Date: 2017.06.28 @ 19:30:16

End Date: 2017.06.29 @ 02:33:16

Job Ticket #: 63824 DST #: 5

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

Printed: 2017.06.30 @ 13:45:01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chizum Oil LLC

27-07s-37w Sherman,KS

PO Box 123
Andover, KS 67002

Quenzer #1-27

Job Ticket: 63824

DST#: 5

ATTN: Tim Priest

Test Start: 2017.06.28 @ 19:30:16

Tool Information

Drill Pipe:	Length: 4505.00 ft	Diameter: 3.80 inches	Volume: 63.19 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 63.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4639.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Stubb	1.00			4624.00	
Shut In Tool	5.00			4629.00	
Hydraulic tool	5.00			4634.00	
Packer	5.00			4639.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4643.00	
Stubb	1.00			4644.00	
Recorder	0.00	8875	Inside	4644.00	
Recorder	0.00	8166	Outside	4644.00	
Perforations	14.00			4658.00	
Change Over Sub	1.00			4659.00	
Drill Pipe	64.00			4723.00	
Change Over Sub	1.00			4724.00	
Bullnose	5.00			4729.00	90.00 Anchor Tool

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

27-07s-37w Sherman,KS
Quenzer #1-27
Job Ticket: 63824 **DST#: 5**
Test Start: 2017.06.28 @ 19:30:16

Mud and Cushion Information

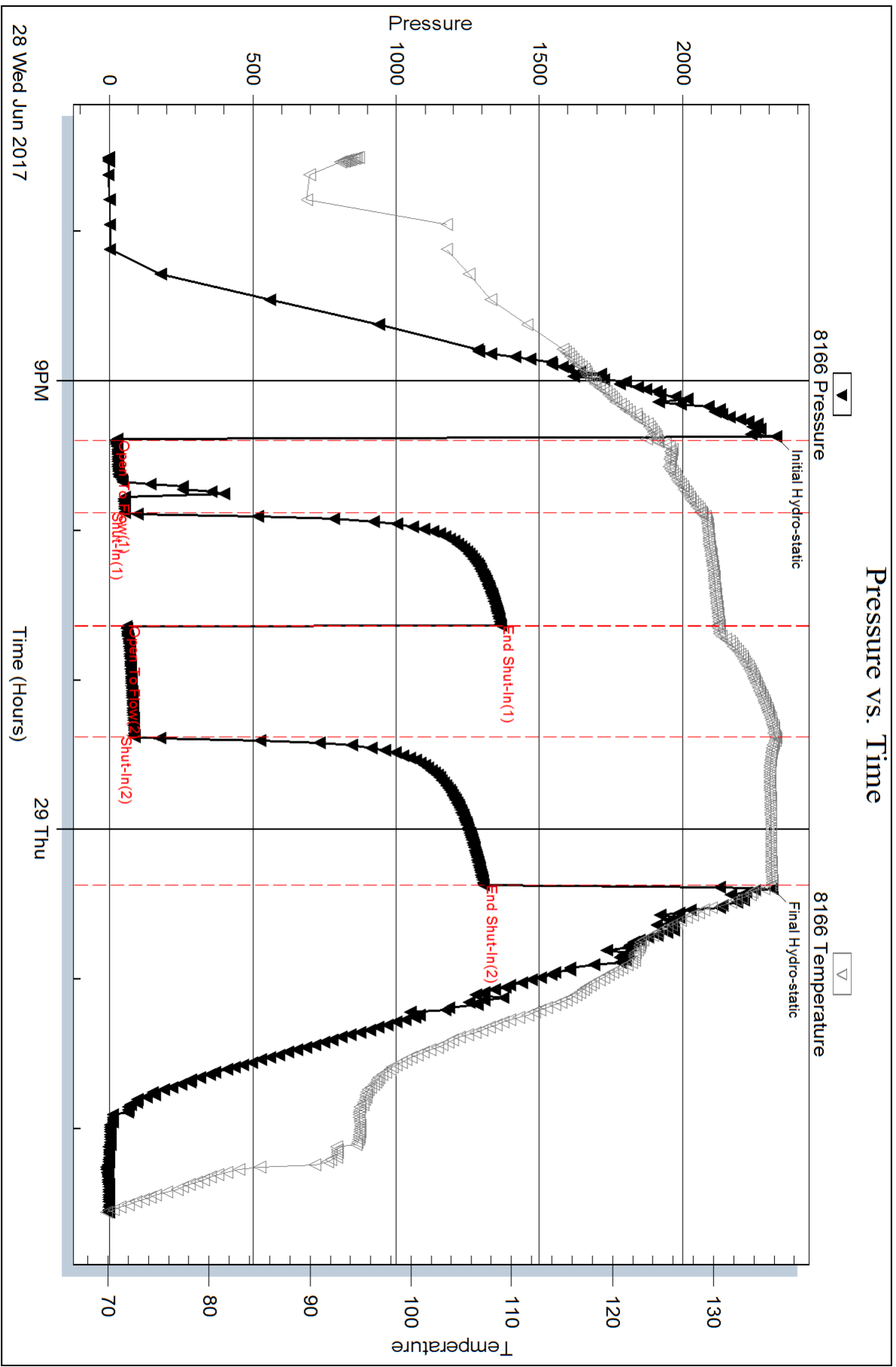
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 32000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6200.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mcw 90%w 10%m	0.608
30.00	w cm oil spots 5%w 95%m	0.421

Total Length: 150.00 ft Total Volume: 1.029 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .25@60=32000



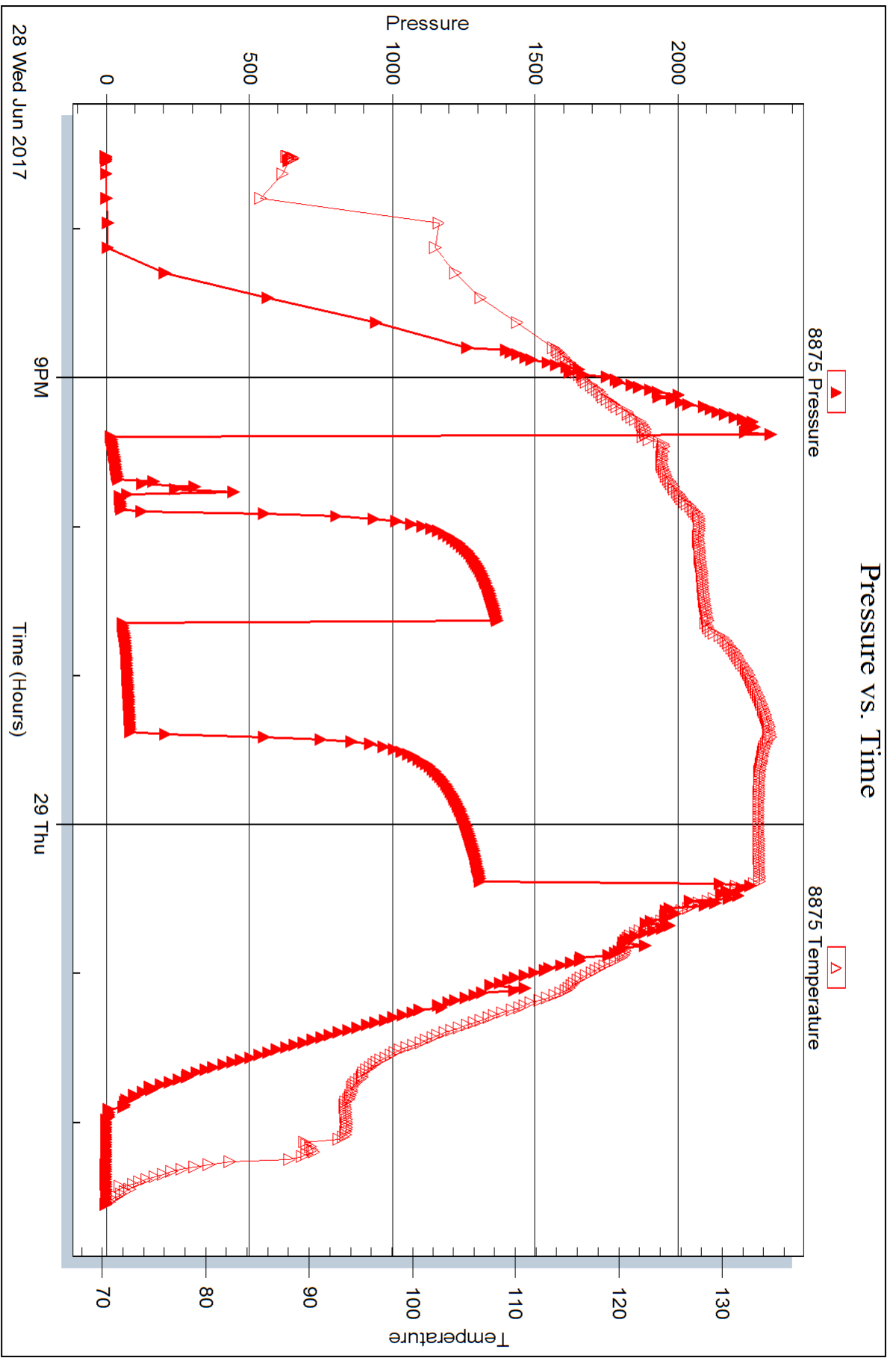
Serial #: 8875

Inside

Chizum Oil LLC

Quenzer #1-27

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 63824

Printed: 2017.06.30 @ 13:45:02



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63820**

Well Name & No. Quezler 1-27 Test No. 1 Date 6-25-17
 Company Chizum o.i LLC Elevation 3417 KB 3412 GL
 Address P.O. Box 123 Andover, KS 67002
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 27 Twp. 07 Rge. 37 Co. Sherman State KS

Interval Tested 4347 4430 Zone Tested HIT
 Anchor Length 83 Drill Pipe Run 4223 Mud Wt. 8.9
 Top Packer Depth 4342 Drill Collars Run 12B Vis 61
 Bottom Packer Depth 4347 Wt. Pipe Run --- WL 8.8
 Total Depth 4430 Chlorides 4000 ppm System LCM 1
 Blow Description IF: 1/4 blow died in 10 min.
IS: No return.
FF: No blow.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 5 BHT 126 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2186</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>12:00</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars	T-Started <u>14:25</u>
(C) First Final Flow <u>21</u>	<input type="checkbox"/> Safety Joint	T-Open <u>16:22</u>
(D) Initial Shut-In <u>50</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>18:22</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:00</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>200</u> 150	Comments <u>out of town</u>
(G) Final Shut-In <u>34</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2116</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1550</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1550</u>	

Approved By _____ Our Representative

TriLOBite 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. **63821**

Well Name & No. Quemner 1-27 Test No. 2 Date 6-26-17
 Company Chizum oil LLC Elevation 3417 KB 3412 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 27 Twp. 07 Rge. 37 Co. Sherman State KS

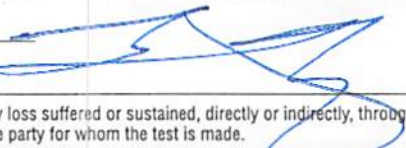
Interval Tested 4473 4550 Zone Tested L & Altamont A
 Anchor Length 77 Drill Pipe Run 4348 Mud Wt. 9.1
 Top Packer Depth 4468 Drill Collars Run 118 Vis 63
 Bottom Packer Depth 4473 Wt. Pipe Run — WL 8.0
 Total Depth 4550 Chlorides 4400 ppm System LCM 2

Blow Description IF: 1/4 blow built to 1,
IS: NO return.
FF: surface blow built to 1/2,
FS: NO return.

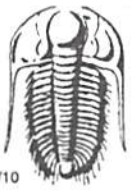
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>6cm</u>		<u>5</u>		<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 130 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2253 Test 1150 T-On Location 9:30
 (B) First Initial Flow 23 Jars _____ T-Started 9:58
 (C) First Final Flow 33 Safety Joint _____ T-Open 11:51
 (D) Initial Shut-In 1042 Circ Sub NIC T-Pulled 14:51
 (E) Second Initial Flow 34 Hourly Standby _____ T-Out 16:35
 (F) Second Final Flow 40 Mileage 200- 150 Comments out of town
 (G) Final Shut-In 974 Sampler _____
 (H) Final Hydrostatic 2210 Straddle 250 Ruined Shale Packer 350
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 350
 Initial Shut-In 45 Day Standby _____ Total 1900
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1550

Approved By _____ Our Representative 

TriLOBITE 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. **63822**

4/10

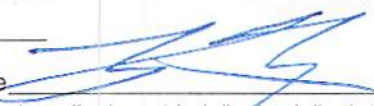
Well Name & No. Quenzer 1-27 Test No. 3 Date 6-27-17
 Company Chizum oil LLC Elevation 3417 KB 3412 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 27 Twp. 07 Rge. 37 Co. Sherman State KS

Interval Tested 4564 4600 Zone Tested Altamont B-C
 Anchor Length 36 Drill Pipe Run 4441 Mud Wt. 9.1
 Top Packer Depth 4559 Drill Collars Run 118 Vis 63
 Bottom Packer Depth 4564 Wt. Pipe Run — WL 8.0
 Total Depth 4600 Chlorides 4400 ppm System LCM 2
 Blow Description IF: 1/4 blow built to 8,
IS: Surface blow built to 1/2 died in 40 min.
FF: BoB in 35 min
FSI surface blow built to 3/4,

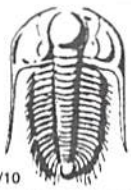
Rec	Feet of	%gas	%oil	%water	%mud
<u>41</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>179</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>126</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
<u>221</u>	<u>GIP</u>				

Rec Total 346 BHT 144 Gravity 31 API RW .09 @ 88 °F Chlorides 68,000 ppm

(A) Initial Hydrostatic <u>2332</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>4:20</u>
(B) First Initial Flow <u>36</u>	<input type="checkbox"/> Jars _____	T-Started <u>4:43</u>
(C) First Final Flow <u>82</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>6:57</u>
(D) Initial Shut-In <u>1373</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>10:27</u>
(E) Second Initial Flow <u>90</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>14:00</u>
(F) Second Final Flow <u>174</u>	<input checked="" type="checkbox"/> Mileage <u>200</u> 150	Comments <u>out of town</u>
(G) Final Shut-In <u>1371</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2274</u>	<input type="checkbox"/> Straddle _____	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1550</u>
	Sub Total <u>1550</u>	MP/DST Disc't _____

Approved By _____ Our Representative 

TriLOBITE 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. **63823**

Well Name & No. Quenzer 1-27 Test No. 4 Date 6-27-17
 Company Chizum oil LLC Elevation 3417 KB 3412 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 27 Twp. 07 Rge. 37 Co. Sherman State KS

Interval Tested 4605 4640 Zone Tested Pawnee
 Anchor Length _____ Drill Pipe Run 4474 Mud Wt. 9.3
 Top Packer Depth _____ Drill Collars Run 118 Vis 57
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL 9.6
 Total Depth _____ Chlorides 6000 ppm System LCM 2

Blow Description IF: 1/4 blow died in 14 min.
IS: No return.
FF: No blow.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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

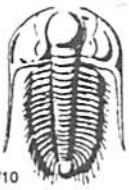
Rec Total 5 BHT 131 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2353 Test 1150 T-On Location 22:15
 (B) First Initial Flow 18 Jars _____ T-Started 23:11
 (C) First Final Flow 19 Safety Joint _____ T-Open 1:44
 (D) Initial Shut-In 21 Circ Sub NIL T-Pulled 3:44
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 5:55
 (F) Second Final Flow 20 Mileage 200 - 150 Comments out of town
 (G) Final Shut-In 19 Sampler _____
 (H) Final Hydrostatic 2318 Straddle _____ Ruined Shale Packer 350

Initial Open 30 Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 30 Day Standby _____
 Sub Total 1550 Accessibility _____
 Total 1900 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

TriLOBITE 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. **63824**

Well Name & No. Quenzer 1-27 Test No. 5 Date 6-28-17
 Company Chizum Oil LLC Elevation 3417 KB 3412 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 27 Twp. 07 Rge. 37 Co. Sherman State KS

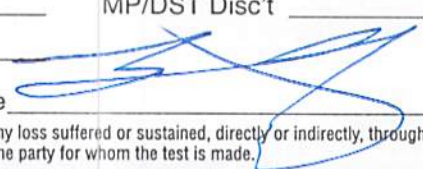
Interval Tested 4639 4725 Zone Tested MS-FS-CK
 Anchor Length 86 Drill Pipe Run 4505 Mud Wt. 9.3
 Top Packer Depth 4634 Drill Collars Run 118 Vis 56
 Bottom Packer Depth 4639 Wt. Pipe Run — WL 8.8
 Total Depth 4725 Chlorides 6200 ppm System LCM 1

Blow Description IF: 1/4 blow built to 2 1/2,
IS: No return.
FF: Surface blow built to 1 3/4,
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>wcm oil spots</u>		<u>5</u>	<u>95</u>	
<u>120</u>	<u>MLW</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 135 Gravity — API RW .25 @ 60° F Chlorides 32,000 ppm

(A) Initial Hydrostatic 2323 Test 1150 T-On Location 18:45
 (B) First Initial Flow 22 Jars _____ T-Started 19:30
 (C) First Final Flow 55 Safety Joint _____ T-Open 21:23
 (D) Initial Shut-In 1365 Circ Sub NIL T-Pulled 00:23
 (E) Second Initial Flow 60 Hourly Standby _____ T-Out 2:35
 (F) Second Final Flow 87 Mileage 200 300 Comments out of town
 (G) Final Shut-In 1306 Sampler _____ loaded tools 6/29 12:45
 (H) Final Hydrostatic 2312 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer 250 Sub Total 0
 Extra Packer _____ Total 1700
 Extra Recorder _____
 Day Standby _____
 Accessibility _____ MP/DST Disc't _____
 Final Flow 45 Sub Total 1700

Approved By _____ Our Representative 

TriLOBite 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.



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

MAIN OFFICE

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

Invoice Invoice# 810526

Invoice Date: 06/22/17 Terms: Net 30 Page 1

CHIZUM OIL LLC
 P.O. BOX 178
 SAPULPA OK 74067
 USA
 9187608146

QUENZER 1-27

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	30.000	805.00
CE0002	Equipment Mileage Charge - Heavy Equipment	40.000	7.1500	30.000	200.20
CE0710	Cement Delivery Charge	1.000	855.4000	30.000	598.78
CC5871	Surface Blend II, 2% Gel/3% CaCl	260.000	23.0000	30.000	4,186.00
Subtotal					8,271.40
Discounted Amount					2,481.42
SubTotal After Discount					5,789.98
Amount Due 8,794.65 If paid after 07/22/17					

Tax: 366.28
 Total: 6,156.26



CONSOLIDATED
Oil Well Services, LLC

8387
8285

TICKET NUMBER 51849

LOCATION Oakley, KS

FOREMAN Miles Shaw

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

FIELD TICKET & TREATMENT REPORT

CEMENT

45

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
6-19-17	C.88	Quenzer 1-27	27	75	37W	Sherman												
CUSTOMER <u>Chizumoil LLC</u>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>753</td> <td>Trautman</td> <td></td> <td></td> </tr> <tr> <td>566</td> <td>Stewart</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	753	Trautman			566	Stewart		
TRUCK #	DRIVER	TRUCK #					DRIVER											
753	Trautman																	
566	Stewart																	
MAILING ADDRESS																		
CITY	STATE	ZIP CODE																

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 344' CASING SIZE & WEIGHT 8 5/8" 24#
 CASING DEPTH 344' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 20.5 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and Rig upon W/D drilling rig #2. Circulate casing M. x 260 SL
Surface blend II B class A Cement with 38 Calcium 28 gel displacer 20 1/2 bbls water Shatin
Cement did Circulate 3 bbls to pit

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	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
CC5871	240 SL	Surface blend II	23. ⁰⁰	5980. ⁰⁰
			Subtotal	8271.40
			loss 308 d/s count	2481.42
			Subtotal	5789.98
			SALES TAX	366.28
			ESTIMATED TOTAL	6156.25

AUTHORIZATION [Signature] TITLE _____ DATE _____

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.

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Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

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(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

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WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.



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

MAIN OFFICE

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

Invoice Invoice# 810630

Invoice Date: 06/30/17 Terms: Net 30 Page 1

CHIZUM OIL LLC
 P.O. BOX 178
 SAPULPA OK 74067
 USA
 9187608146

QUENZER 1-27

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0451	Cement Pump Charge 1501' - 3000'	1.000	1,900.0000	30.000	1,330.00
CE0002	Equipment Mileage Charge - Heavy Equipment	40.000	7.1500	30.000	200.20
CE0710	Cement Delivery Charge	1.000	722.4000	30.000	505.68
CC5829	Lite-Weight Blend V (60:40:4)	240.000	16.0000	30.000	2,688.00
CC6075	Celloflake	60.000	3.0000	30.000	126.00
CP8228	8 5/8" Wooden Plug	1.000	165.0000	30.000	115.50

Subtotal 7,093.40
 Discounted Amount 2,128.02
 SubTotal After Discount 4,965.38

Amount Due 7,459.59 If paid after 07/30/17

Tax: 256.33
 Total: 5,221.71



8970
8386

TICKET NUMBER 51840
LOCATION Oakley KS
FOREMAN Jerry Y

620-431-9210 or 800-467-8676

WELL TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-30-17	C88	Quenzer 1-27	27	7s	37w	Sherman
CUSTOMER Chizum Oil			Brewster N side W to 35 N to 70 1/2 mi S into			
MAILING ADDRESS P.O. Box 178			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Sapulpa			731	Cory D		
STATE OK			530 TR7	Seth O		
ZIP CODE 74067			assist	Harold B		
			639			

JOB TYPE Plug HOLE SIZE 7 7/8 HOLE DEPTH 5100 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ 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 a rig up on WW2 plug as ordered with 240 sks
60/40 flo seal 1/4" x 5/8" seal

50 sks @ 2995'
100 sks @ 2060'
50 sks @ 390'
10 sks @ 40'
30 sks @ hole

Thank you
Jerry & crew

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	ton mileage delivery	1.75	722.40
CC5829	240 sks	liteblend II	16.00	3840.00
CP8228	1	8 7/8 wooden plug	165.00	165.00
CC6075	60 #	flo seal	3.00	180.00
		Subtotal		7093.4
		-30% discount		2128.02
		Subtotal		4965.38
		SALES TAX		256.33
		ESTIMATED TOTAL		5221.71

RAVIN 3737 AUTHORIZATION [Signature] TITLE Inspector DATE _____

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CONSOLIDATED
Oil Well Services, LLC

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

007-2
8439

TICKET NUMBER 53534
LOCATION Ocklawaha
FOREMAN Miles Shew

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-11-19	1112	Malento #2	11	15S	29W	Love
CUSTOMER Abercrombie Energy			Love 12S Vestinto			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			753	Corey D		
STATE			772/F-12#	Sch 0		
ZIP CODE						

JOB TYPE OHP HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 4.5"
 CASING DEPTH _____ DRILL PIPE _____ TUBING 2 3/8" OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and response H-10 well service plugs ordered
2510' mixed 200SX first loss next 140SX with 300# hulls
1700' mixed 250SX and 200# hulls Cement did circulate
Mixed 20 SX on the surface pipe
Topped off with 35 SX
505 SX 40/40 48

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0470	1	PUMP CHARGE	950.00	950.00
CE0002	35	MILEAGE	7.15	250.25
CE0710	21.97 Tons	Ton mileage delivery	1.75	1345.66
CC5829	505 SX	Lite weight blend IV	16.00	8080.00
CC6080	500 #	Cotton seed hulls	.50	250.00
			Subtotal	10875.91
			Less 30% discount	3262.77
			Subtotal	7613.14
			SALES TAX	495.64
			ESTIMATED TOTAL	8108.78

AUTHORIZATION [Signature] TITLE Foreman DATE _____

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REMIT TO

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

MAIN OFFICE

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

Invoice Invoice# 810526

Invoice Date: 06/22/17 Terms: Net 30 Page 1

CHIZUM OIL LLC
 P.O. BOX 178
 SAPULPA OK 74067
 USA
 9187608146

QUENZER 1-27

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	30.000	805.00
CE0002	Equipment Mileage Charge - Heavy Equipment	40.000	7.1500	30.000	200.20
CE0710	Cement Delivery Charge	1.000	855.4000	30.000	598.78
CC5871	Surface Blend II, 2% Gel/3% CaCl	260.000	23.0000	30.000	4,186.00
Subtotal					8,271.40
Discounted Amount					2,481.42
SubTotal After Discount					5,789.98
Amount Due 8,794.65 If paid after 07/22/17					

Tax: 366.28
 Total: 6,156.26



CONSOLIDATED
Oil Well Services, LLC

8387
8285

TICKET NUMBER 51849

LOCATION Oakley, KS

FOREMAN Miles Shaw

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-19-17	C88	Quenzer 1-27	27	75	37W	Sherman
CUSTOMER Chizumoil LLC		Brawstons N.S. Hle Westwood 35 N.W. 70 70 W Sink	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			753	Trautman		
CITY		STATE	ZIP CODE			

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 344' CASING SIZE & WEIGHT 8 5/8" 24#
 CASING DEPTH 344' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 20.5 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and Rig upon Wldrilling rig #2 Circulate casing M. x 260 SL
Surface blend II B class A Cement with 38 Calcium 28 gel displacer 20 1/2 bbls water Shatin
Cement did Circulate 3 bbls to pit

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
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CE0710	12.22 Tons	Ton Mileage delivery	1.75	855.40
CC5871	240 SL	Surface blend II	23.00	5980.00
			Subtotal	8271.40
			loss 308 d/s count	2481.42
			Subtotal	5789.98
			SALES TAX	366.28
			ESTIMATED TOTAL	6156.25

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Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.



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

MAIN OFFICE

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

Invoice Invoice# 810630

Invoice Date: 06/30/17 Terms: Net 30 Page 1

CHIZUM OIL LLC
 P.O. BOX 178
 SAPULPA OK 74067
 USA
 9187608146

QUENZER 1-27

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0451	Cement Pump Charge 1501' - 3000'	1.000	1,900.0000	30.000	1,330.00
CE0002	Equipment Mileage Charge - Heavy Equipment	40.000	7.1500	30.000	200.20
CE0710	Cement Delivery Charge	1.000	722.4000	30.000	505.68
CC5829	Lite-Weight Blend V (60:40:4)	240.000	16.0000	30.000	2,688.00
CC6075	Celloflake	60.000	3.0000	30.000	126.00
CP8228	8 5/8" Wooden Plug	1.000	165.0000	30.000	115.50

Subtotal 7,093.40
 Discounted Amount 2,128.02
 SubTotal After Discount 4,965.38

Amount Due 7,459.59 If paid after 07/30/17

Tax: 256.33
 Total: 5,221.71



8970
8386

TICKET NUMBER 51840
LOCATION Oakley KS
FOREMAN Jerry Y

620-431-9210 or 800-467-8676

WELL TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-30-17	C88	Quenzer 1-27	27	7s	37w	Sherman
CUSTOMER Chizum Oil			Brewster N side W to 35 N to 70 1/2 mi S into			
MAILING ADDRESS P.O. Box 178			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Sapulpa			731	Cory D		
STATE OK			530 TR7	Seth O		
ZIP CODE 74067			assist	Harold B		
			639			

JOB TYPE Plug HOLE SIZE 7 7/8 HOLE DEPTH 5100 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ 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 & rig up on WW2 plug as ordered with 240 sks
60/40 flo seal 1/4" x 5/8" seal

50 sks @ 2995'
100 sks @ 2060'
50 sks @ 390'
10 sks @ 40'
30 sks @ hole

Thank you
Jerry & crew

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	ton mileage delivery	1.75	722.40
CC5829	240 sks	liteblend II	16.00	3840.00
CP8228	1	8 7/8 wooden plug	165.00	165.00
CC6075	60 #	flo seal	3.00	180.00
		Subtotal		7093.4
		-30% discount		2128.02
		Subtotal		4965.38
		SALES TAX		256.33
		ESTIMATED TOTAL		5221.71

RAVIN 3737 AUTHORIZATION [Signature] TITLE Inspector DATE _____

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.

TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

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