

DRILL STEM TEST REPORT

Prepared For: **Jolen Operating Company**

100 N. Braodway Ave
Ste 2460
OKC, OK 73102+8868

ATTN: Ken Leblanc

Carter #1-6

6-33s-23w Clark,KS

Start Date: 2019.09.28 @ 06:19:00

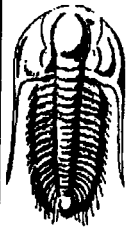
End Date: 2019.09.28 @ 15:05:19

Job Ticket #: 65701 DST #: 1

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

Printed: 2019.10.07 @ 10:11:27

Jolen Operating Company
6-33s-23w Clark,KS
Carter #1-6
DST # 1
LKC "A"
2019.09.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Jolen Operating Company

6-33s-23w Clark, KS

100 N. Braodw ay Ave
Ste 2460
OKC, OK 73102+8868
ATTN: Ken Leblanc

Carter #1-6

Job Ticket: 65701

DST#: 1

Test Start: 2019.09.28 @ 06:19:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:56:40

Time Test Ended: 15:05:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: **4528.00 ft (KB) To 4556.00 ft (KB) (TVD)**

Total Depth: 4556.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2176.00 ft (KB)

2167.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6772

Inside

Press@RunDepth: 22.45 psig @ 4529.00 ft (KB)

Start Date: 2019.09.28

End Date: 2019.09.28

Start Time: 06:19:01

End Time: 15:05:19

Capacity: 8000.00 psig

Last Calib.: 2019.09.28

Time On Btm: 2019.09.28 @ 09:43:30

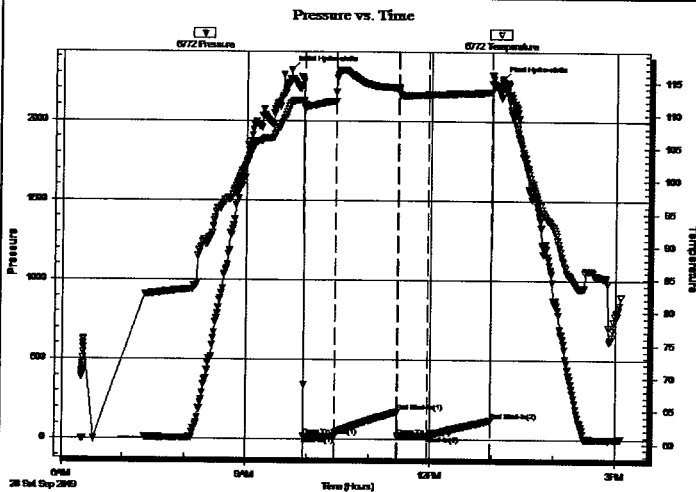
Time Off Btm: 2019.09.28 @ 13:08:30

TEST COMMENT: IF-30-BOB 25 secs total build of 30"

ISI-60- no blow back

FF-30- built to 11"

FSI-60- no blow back



PRESSURE SUMMARY

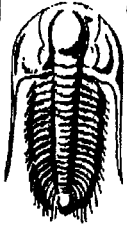
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2317.92	111.87	Initial Hydro-static
14	18.73	111.54	Open To Flow (1)
44	17.95	112.05	Shut-In(1)
105	173.01	114.13	End Shut-In(1)
105	18.62	113.49	Open To Flow (2)
134	22.45	113.10	Shut-In(2)
195	119.06	113.48	End Shut-In(2)
205	2259.22	114.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%M	0.28
0.00	GIP 100'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jolen Operating Company

6-33s-23w Clark,KS

100 N. Braodway Ave
Ste 2460
OKC, OK 73102+8868
ATTN: Ken Leblanc

Carter #1-6

Job Ticket: 65701

DST#: 1

Test Start: 2019.09.28 @ 06:19:00

Tool Information

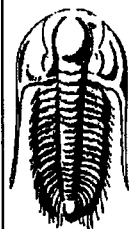
Drill Pipe:	Length: 4538.00 ft	Diameter: 3.80 inches	Volume: 63.66 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 61000.00 lb
		<u>Total Volume:</u>	<u>63.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4528.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	50.00 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			4507.00	
Shut In Tool	5.00			4512.00	
Hydraulic tool	5.00			4517.00	
Safety Joint	2.00			4519.00	
Packer	5.00			4524.00	22.00 Bottom Of Top Packer
Packer	4.00			4528.00	
Stubb	1.00			4529.00	
Recorder	0.00	6772	Inside	4529.00	
Recorder	0.00	6769	Outside	4529.00	
Perforations	24.00			4553.00	
Bullnose	3.00			4556.00	28.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jolen Operating Company

6-33s-23w Clark, KS

100 N. Braodw ay Ave
Ste 2460
OKC, OK 73102+8868
ATTN: Ken Leblanc

Carter #1-6

Job Ticket: 65701

DST#: 1

Test Start: 2019.09.28 @ 06:19:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 13.37 in³
Resistivity: ohm.m
Salinity: 8000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100%M	0.281
0.00	GIP 100'	0.000

Total Length: 20.00 ft Total Volume: 0.281 bbl

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

Laboratory Name: Laboratory Location:

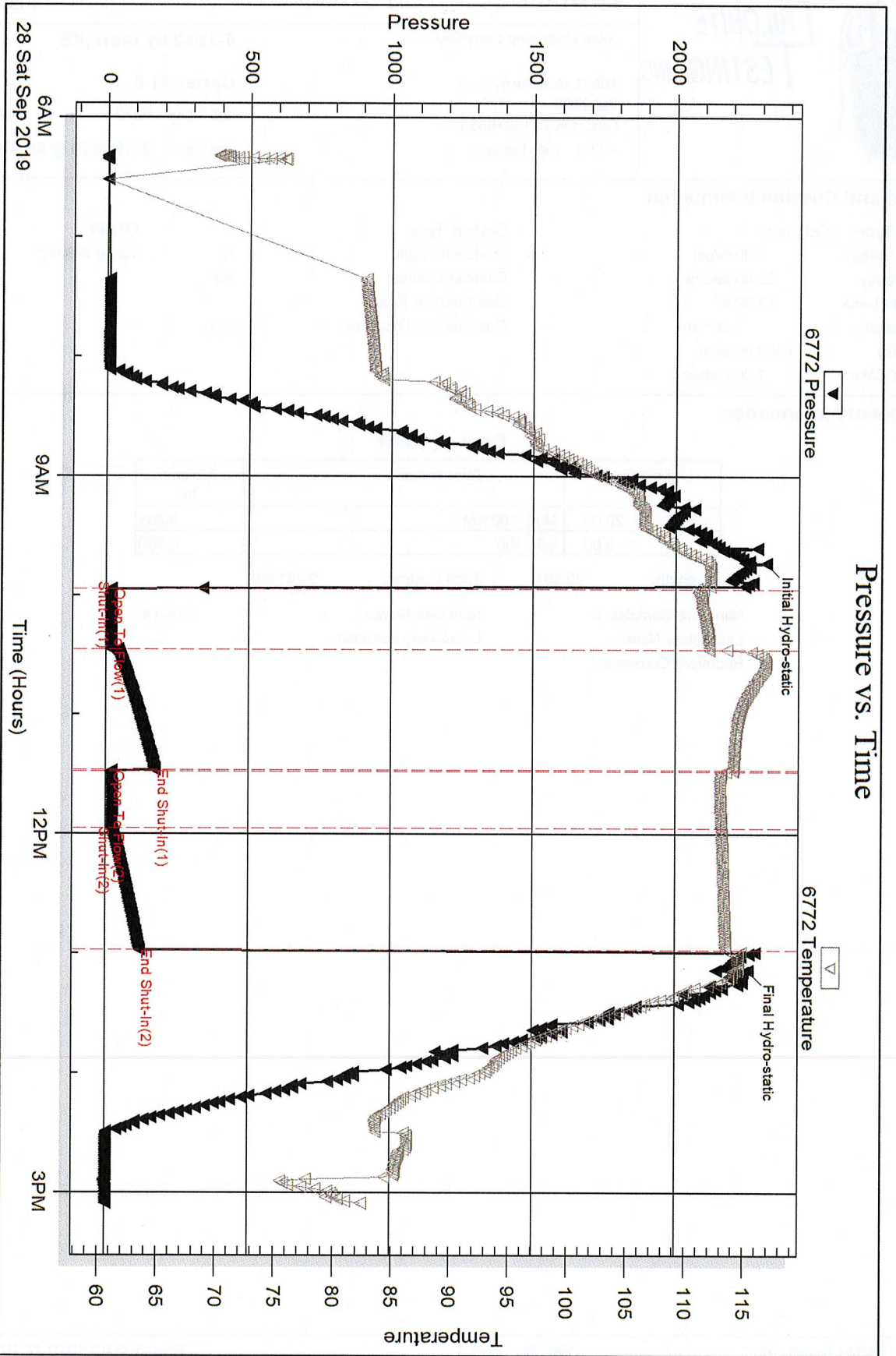
Recovery Comments:

Serial #: 6772

Inside Jden Operating Company

Carter #1-6

DST Test Number: 1

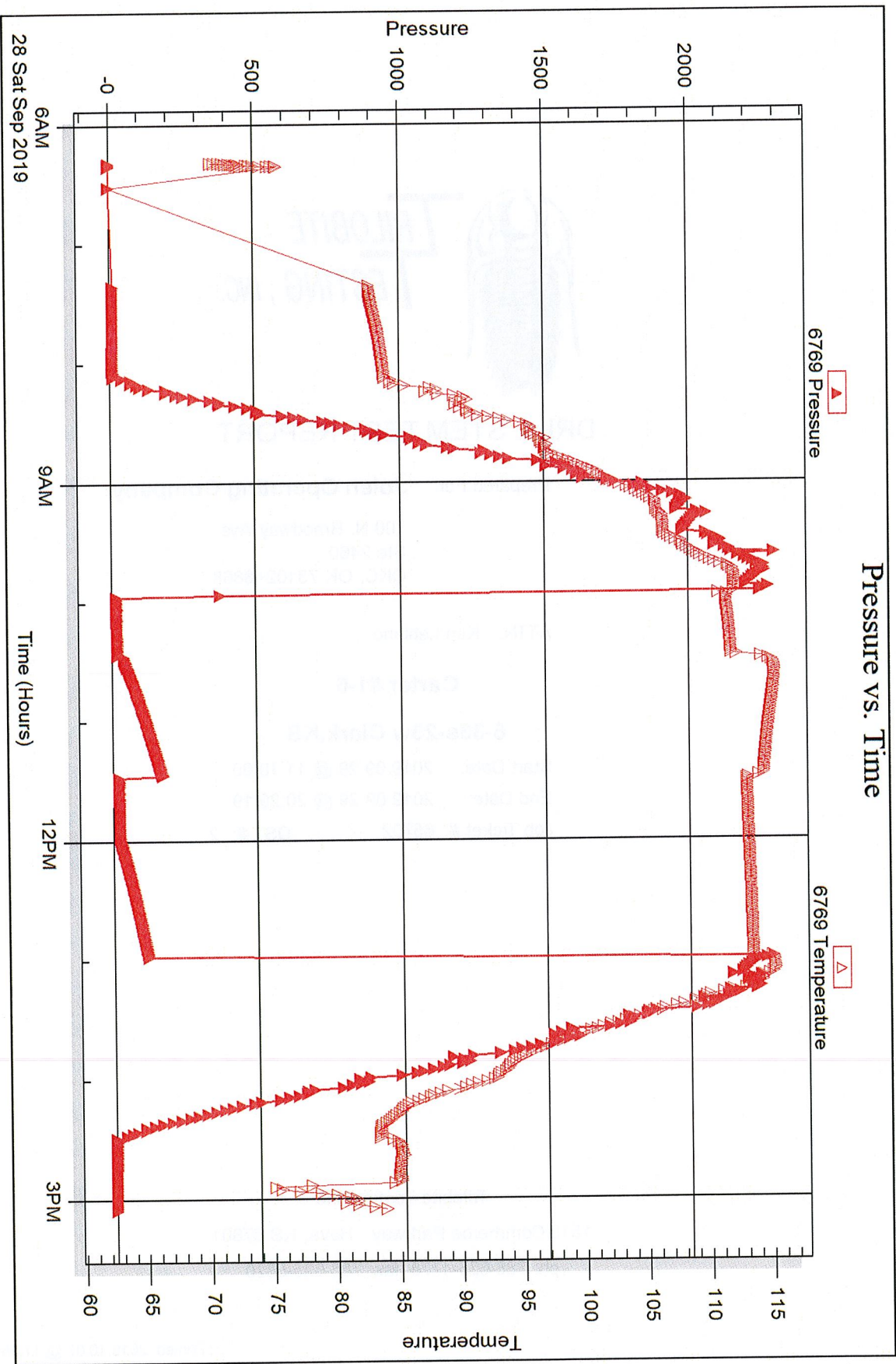


Serial #: 6769

Outside Jolen Operating Company

Carter #1-6

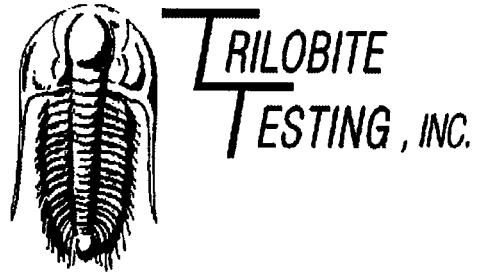
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65701

Printed: 2019:10:07 @ 10:11:28



DRILL STEM TEST REPORT

Prepared For: **Jolen Operating Company**

100 N. Braodway Ave
Ste 2460
OKC, OK 73102+8868

ATTN: Ken Leblanc

Carter #1-6

6-33s-23w Clark,KS

Start Date: 2019.09.29 @ 11:10:00

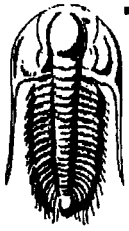
End Date: 2019.09.29 @ 20:29:19

Job Ticket #: 65702 DST #: 2

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

Printed: 2019.10.07 @ 11:35:53

Jolen Operating Company
6-33s-23w Clark,KS
Carter #1-6
DST # 2
LKC "B"
2019.09.29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jolen Operating Company
 100 N. Braodway Ave
 Ste 2460
 OKC, OK 73102+8868
 ATTN: Ken Leblanc

6-33s-23w Clark,KS

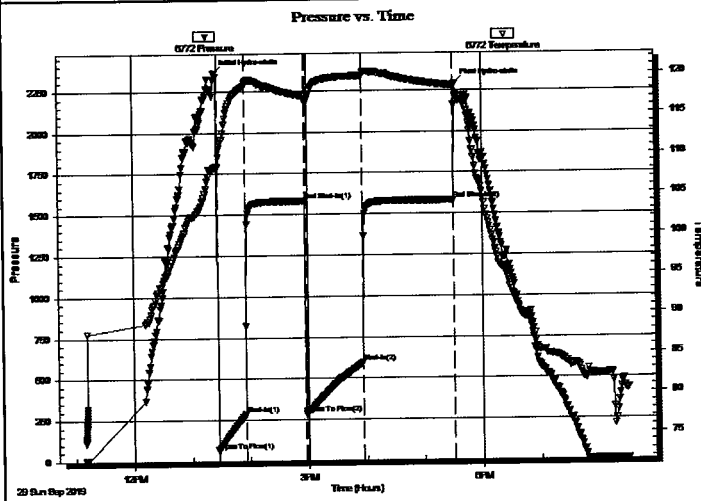
Carter #1-6
 Job Ticket: 65702 **DST#: 2**
 Test Start: 2019.09.29 @ 11:10:00

GENERAL INFORMATION:

Formation: **LKC "B"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:26:40
 Tester: Benny Mulligan
 Time Test Ended: 20:29:19
 Unit No: 66
 Interval: **4566.00 ft (KB) To 4590.00 ft (KB) (TVD)**
 Reference Elevations: 2176.00 ft (KB)
 Total Depth: 4590.00 ft (KB) (TVD) 2167.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 6772 Inside
 Press@RunDepth: 594.90 psig @ 4567.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.09.29 End Date: 2019.09.29 Last Calib.: 2019.09.29
 Start Time: 11:10:01 End Time: 20:29:19 Time On Btm: 2019.09.29 @ 13:24:30
 Time Off Btm: 2019.09.29 @ 17:31:50

TEST COMMENT: IF-30-BOB 1 min 5 sec total build of 409"
 ISI-60- GTS 7 mins into shut in 111" blow back
 FF-60- BOB 1 min built to 8.6 psi at 1/4 choke
 FSI-90- 28 psi blow back



PRESSURE SUMMARY

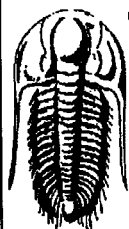
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2362.54	108.25	Initial Hydro-static
3	65.88	108.26	Open To Flow (1)
31	287.14	118.48	Shut-In(1)
93	1581.81	117.15	End Shut-In(1)
94	282.81	116.31	Open To Flow (2)
152	594.90	119.66	Shut-In(2)
246	1581.03	118.36	End Shut-In(2)
248	2288.67	117.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	GWM 10%G 20%W 70%M	3.53
252.00	GMW 10%G 10%M 80%W	3.53
693.00	GW 10% 90%W	9.72
0.00	GIP 3372'	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.80	6.06
Last Gas Rate	0.25	8.60	36.49
Max. Gas Rate	0.13	10.00	9.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jolen Operating Company

6-33s-23w Clark,KS

100 N. Braodway Ave
Ste 2460
OKC, OK 73102+8868
ATTN: Ken Leblanc

Carter #1-6

Job Ticket: 65702

DST#: 2

Test Start: 2019.09.29 @ 11:10:00

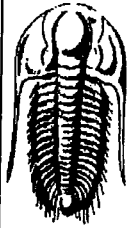
Tool Information

Drill Pipe:	Length: 4569.00 ft	Diameter: 3.80 inches	Volume: 64.09 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4566.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4545.00	
Shut In Tool	5.00			4550.00	
Hydraulic tool	5.00			4555.00	
Safety Joint	2.00			4557.00	
Packer	5.00			4562.00	22.00 Bottom Of Top Packer
Packer	4.00			4566.00	
Stubb	1.00			4567.00	
Recorder	0.00	6772	Inside	4567.00	
Recorder	0.00	6769	Outside	4567.00	
Perforations	20.00			4587.00	
Bullnose	3.00			4590.00	24.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jolen Operating Company

6-33s-23w Clark,KS

100 N. Braodw ay Ave
Ste 2460

Carter #1-6

OKC, OK 73102+8868

Job Ticket: 65702

DST#: 2

ATTN: Ken Leblanc

Test Start: 2019.09.29 @ 11:10:00

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:

13000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbf

Water Loss: 14.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
252.00	GWM 10%G 20%W 70%M	3.535
252.00	GMW 10%G 10%M 80%W	3.535
693.00	GW 10% 90%W	9.721
0.00	GIP 3372'	0.000

Total Length: 1197.00 ft

Total Volume: 16.791 bbf

Num Fluid Samples: 0

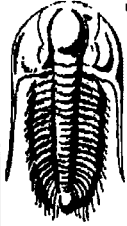
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 0.428@81.9



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Jolen Operating Company

6-33s-23w Clark,KS

100 N. Braodway Ave
Ste 2460
OKC, OK 73102+8868
ATTN: Ken Leblanc

Carter #1-6

Job Ticket: 65702

DST#: 2

Test Start: 2019.09.29 @ 11:10:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

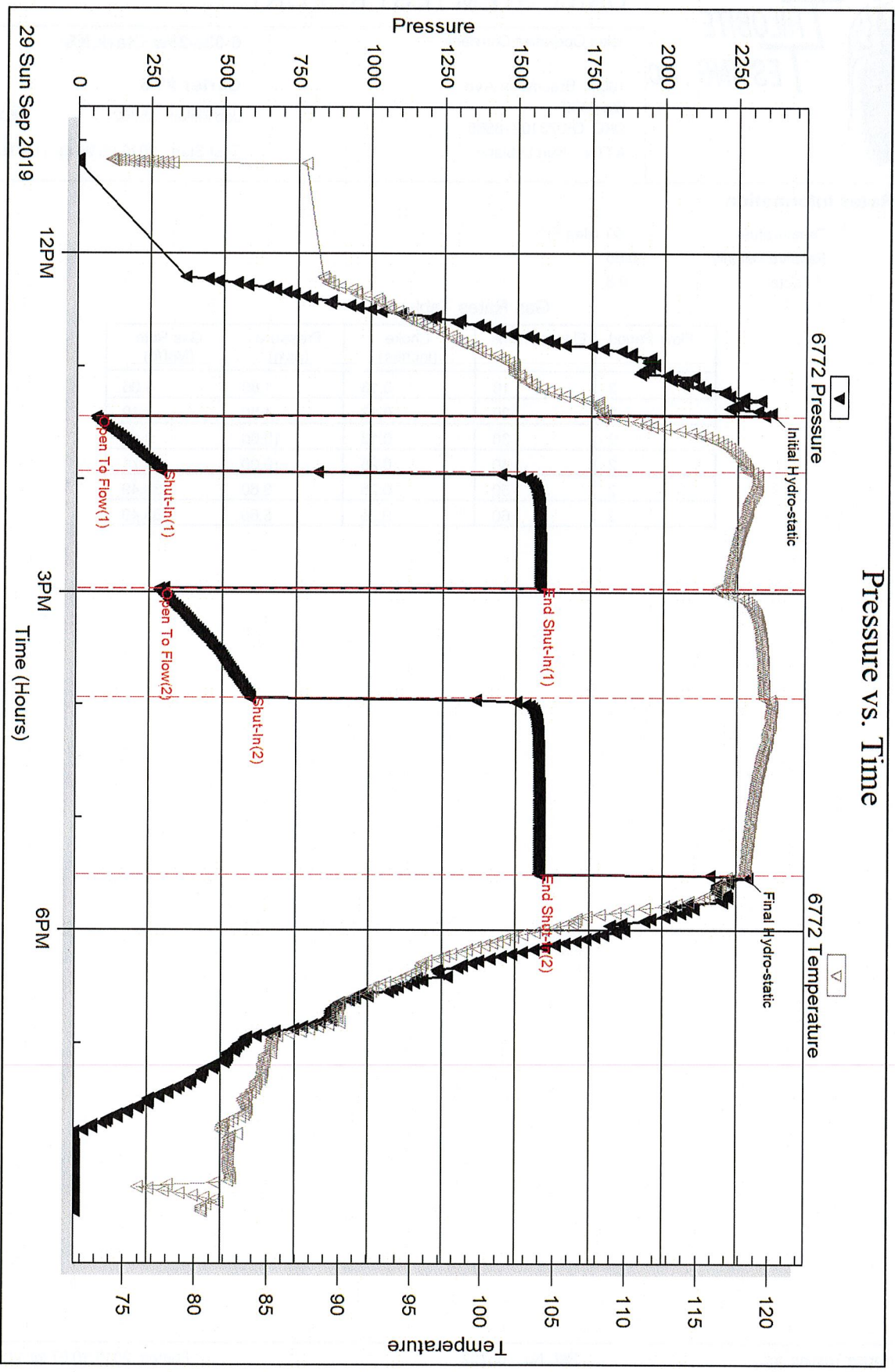
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	1.80	6.06
2	20	0.13	4.80	7.19
2	30	0.13	10.00	9.13
2	40	0.25	10.00	38.71
2	50	0.25	8.60	36.49
2	60	0.25	8.60	36.49

Serial #: 6772

Inside Jolen Operating Company

Carter #1-6

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65702

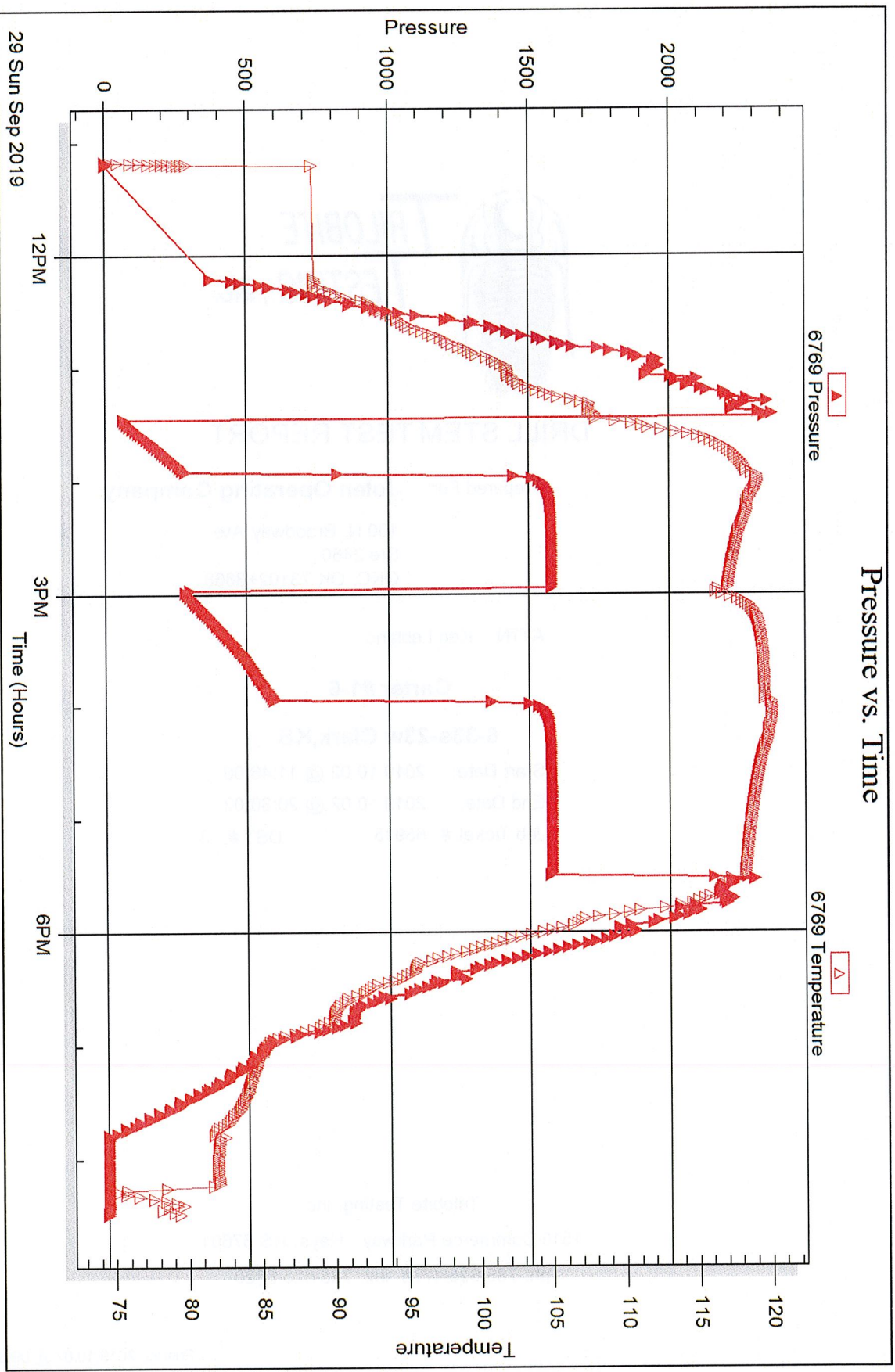
Printed: 2019.10.07 @ 11:35:55

Serial #: 6769

Outside Jolen Operating Company

Carter #1-6

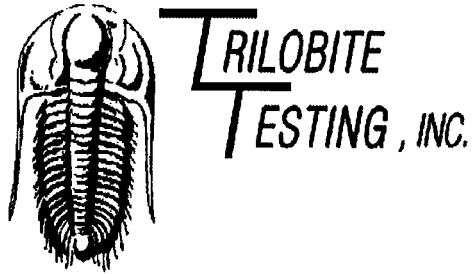
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65702

Printed: 2019.10.07 @ 11:35:55



DRILL STEM TEST REPORT

Prepared For: **Jolen Operating Company**

100 N. Braodway Ave
Ste 2460
OKC, OK 73102+8868

ATTN: Ken Leblanc

Carter #1-6

6-33s-23w Clark,KS

Start Date: 2019.10.02 @ 11:46:00

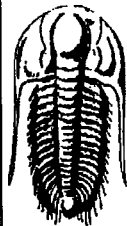
End Date: 2019.10.02 @ 20:30:02

Job Ticket #: 65915 DST #: 3

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

Printed: 2019.10.07 @ 09:33:55

Jolen Operating Company
6-33s-23w Clark,KS
Carter #1-6
DST # 3
Pawnee
2019.10.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Jolen Operating Company

6-33s-23w Clark,KS

100 N. Braodw ay Ave
Ste 2460
OKC, OK 73102+8868
ATTN: Ken Leblanc

Carter #1-6

Job Ticket: 65915

DST#: 3

Test Start: 2019.10.02 @ 11:46:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:11:47

Time Test Ended: 20:30:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: **5086.00 ft (KB) To 5200.00 ft (KB) (TVD)**

Total Depth: 5200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2176.00 ft (KB)

2167.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8672

Inside

Press@RunDepth: 81.68 psig @ 5087.00 ft (KB)

Start Date: 2019.10.02

End Date:

2019.10.02

Start Time: 11:46:01

End Time:

20:30:02

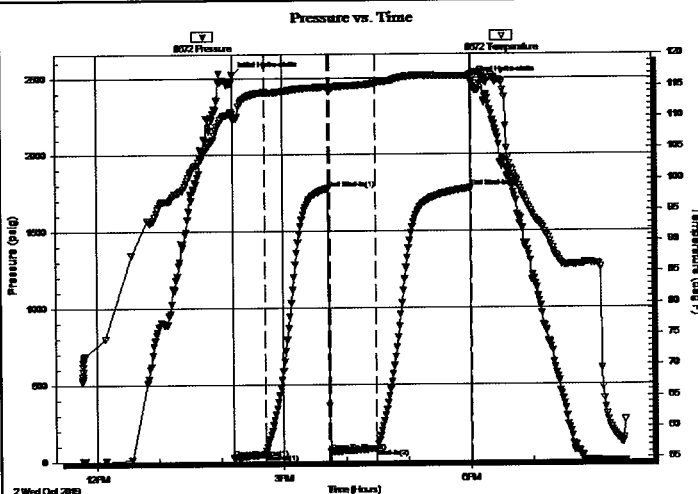
Capacity: psig

Last Calib.: 2019.10.02

Time On Btm: 2019.10.02 @ 14:11:32

Time Off Btm: 2019.10.02 @ 18:01:17

TEST COMMENT: IF: Fair Blow , BOB in 11 minutes, Built to 62"
IS: No Blow Back
FF: Strong Blow , BOB Immediate, Built to 220"
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2519.55	110.50	Initial Hydro-static
1	23.18	109.70	Open To Flow (1)
31	47.18	113.92	Shut-In(1)
93	1780.58	114.75	End Shut-In(1)
94	62.73	114.36	Open To Flow (2)
138	81.68	115.43	Shut-In(2)
229	1781.44	116.60	End Shut-In(2)
230	2475.89	116.81	Final Hydro-static

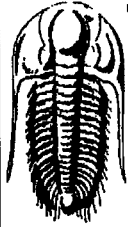
Recovery

Length (ft)	Description	Volume (bbl)
0.00	2334 GIP	0.00
120.00	GOCM 12%G 6%O 82%M	1.68
20.00	GCM 20%G 80%M	0.28

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jolen Operating Company
100 N. Braodway Ave
Ste 2460
OKC, OK 73102+8868
ATTN: Ken Leblanc

6-33s-23w Clark,KS

Carter #1-6

Job Ticket: 65915

DST#: 3

Test Start: 2019.10.02 @ 11:46:00

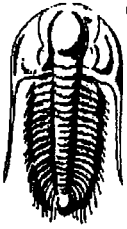
Tool Information

Drill Pipe:	Length: 5088.00 ft	Diameter: 3.80 inches	Volume: 71.37 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 71.37 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	5086.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	114.00 ft			
Tool Length:	140.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5065.00	
Hydraulic tool	5.00			5070.00	
Jars	5.00			5075.00	
Safety Joint	2.00			5077.00	
Packer	5.00			5082.00	26.00 Bottom Of Top Packer
Packer	4.00			5086.00	
Stubb	1.00			5087.00	
Recorder	0.00	8672	Inside	5087.00	
Recorder	0.00	6751	Outside	5087.00	
Perforations	4.00			5091.00	
Change Over Sub	1.00			5092.00	
Drill Pipe	93.00			5185.00	
Change Over Sub	2.00			5187.00	
Perforations	10.00			5197.00	
Bullnose	3.00			5200.00	114.00 Bottom Packers & Anchor

Total Tool Length: 140.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jolen Operating Company
100 N. Broadway Ave
Ste 2460
OKC, OK 73102+8868
ATTN: Ken Leblanc

6-33s-23w Clark,KS
Carter #1-6
Job Ticket: 65915 **DST#: 3**
Test Start: 2019.10.02 @ 11:46:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7500.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2334 GIP	0.000
120.00	GOCM 12%G 6%O 82%M	1.683
20.00	GCM 20%G 80%M	0.281

Total Length: 140.00 ft Total Volume: 1.964 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

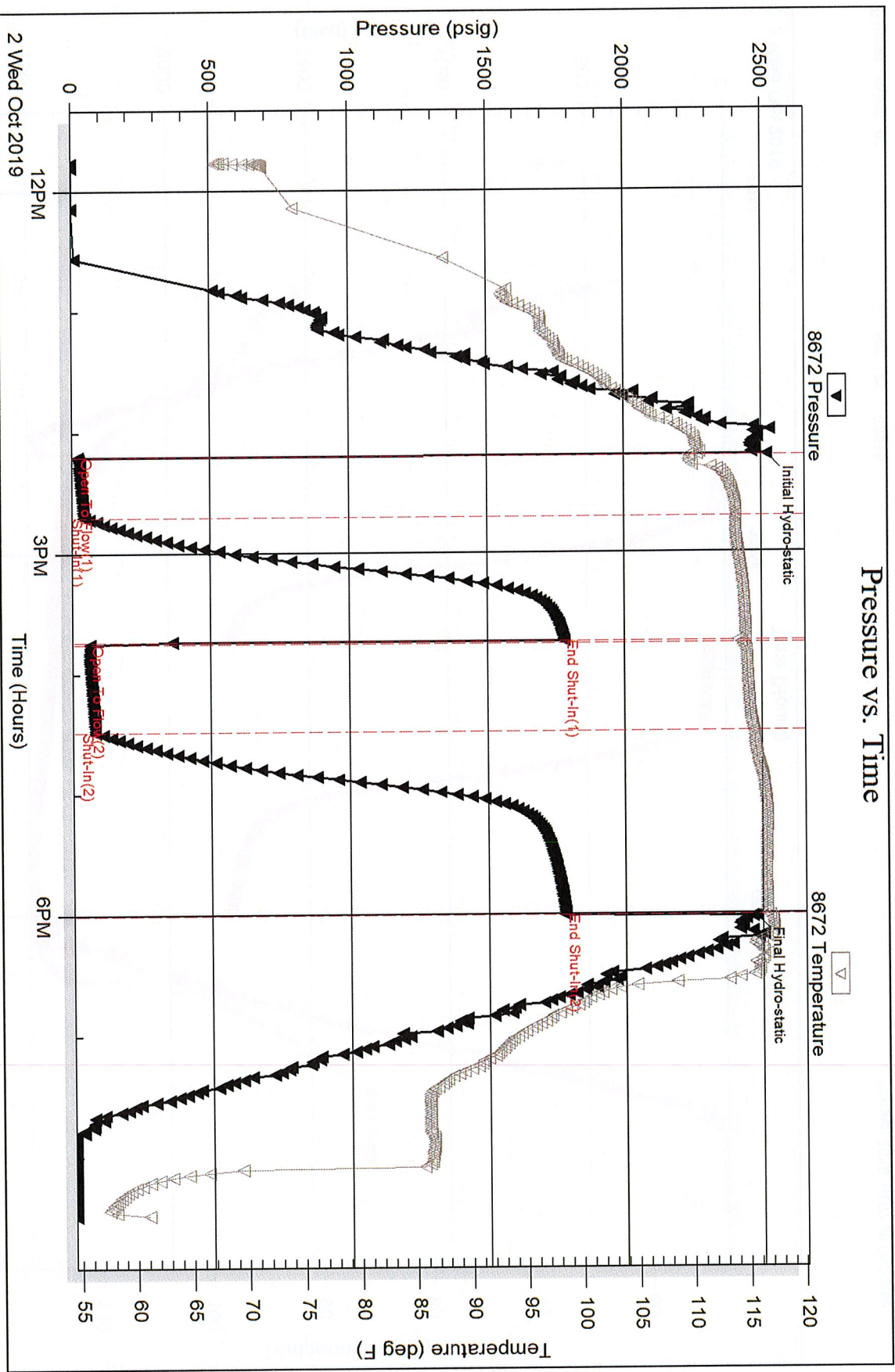
Serial #: 8672

Inside

Jolen Operating Company

Carter #1-6

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 65915

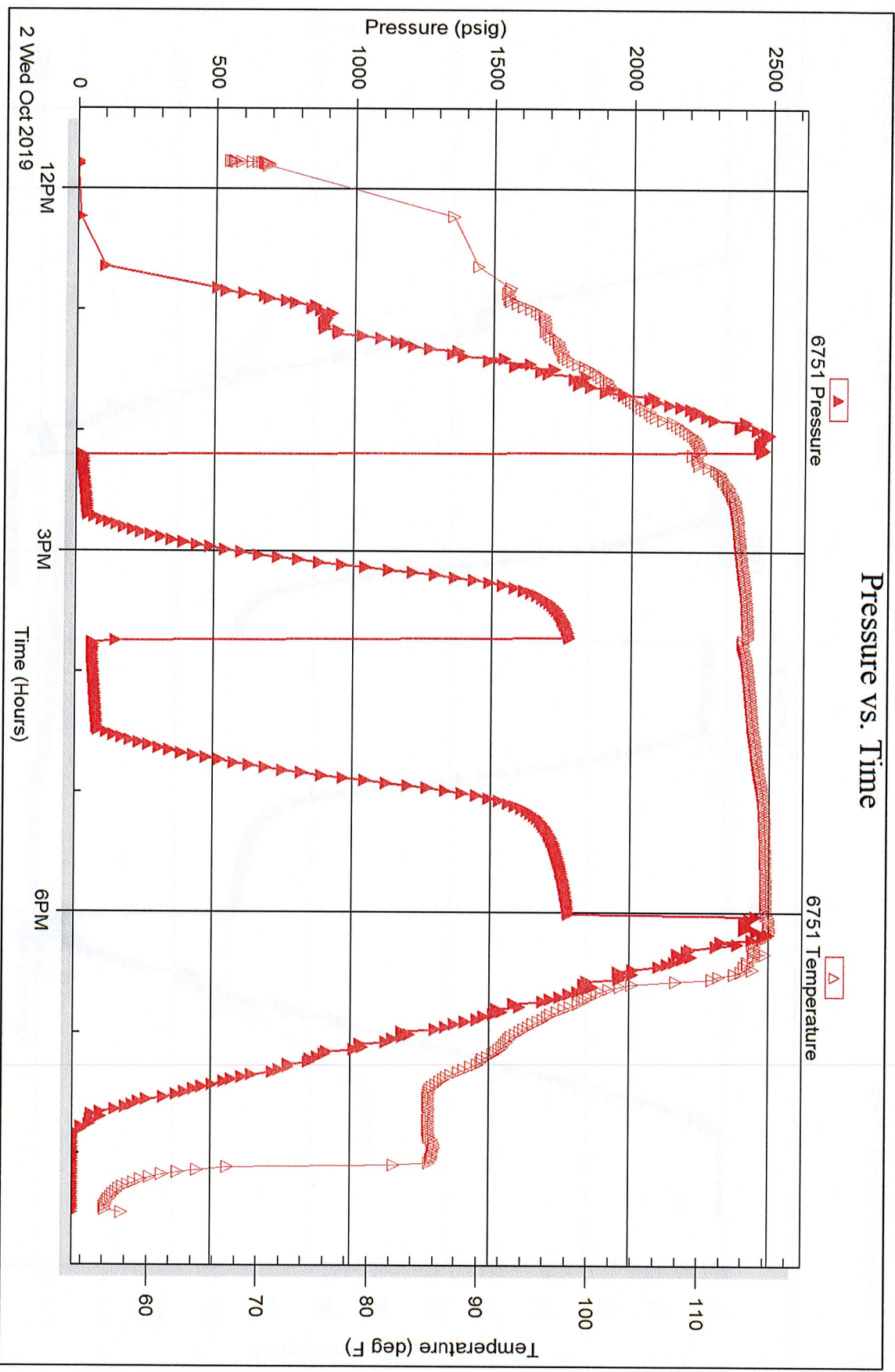
Printed: 2019.10.07 @ 09:33:57

Serial #: 6751

Outside Jolen Operating Company

Carter #1-6

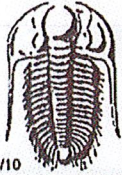
DST Test Number: 3



Triobrite Testing, Inc

Ref. No: 65915

Printed: 2019.10.07 @ 09:33:58



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65701

Well Name & No. Carter 1-6 Test No. 1 Date 9-28-2014
 Company Jalen Operating Company Elevation 2176 KB 2167 GL
 Address 100 N. Broadway Ave Ste 2460 Oklahoma City, OK 73102 +8868
 Co. Rep / Geo. Ken Leblanc Rig Duke Rig 4
 Location: Sec. 6 Twp 33s Rge. 23w Co. Clarke State KS

Interval Tested 4528-4556 Zone Tested Lansing "A"
 Anchor Length 28' Drill Pipe Run 4538' Mud Wt. 9.4
 Top Packer Depth 4523 Drill Collars Run _____ Vis 55
 Bottom Packer Depth 4528 Wt. Pipe Run _____ WL 13.4
 Total Depth 4556 Chlorides 8,000 ppm System LCM 3#

Blow Description IF - BOB 25 secs total build of 30"
FSI - no blow back
FF - built to 11"
FSI - no blow back

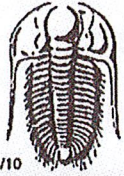
Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>Mud</u>			<u>100</u>	
	<u>100' GIP</u>				

Rec Total 20' BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2317 Test 1300 T-On Location 12:00 AM
 (B) First Initial Flow 18 Jars _____ T-Started 6:19
 (C) First Final Flow 17 Safety Joint 75 T-Open 9:57
 (D) Initial Shut-In 173 Circ Sub _____ T-Pulled 1:00 PM
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 3:05
 (F) Second Final Flow 22 Mileage 164 RT 180rt
 (G) Final Shut-In 119 Sampler _____
 (H) Final Hydrostatic 2259 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1555
 Sub Total 1555 MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan

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. 65702

Well Name & No. Carter #1-6 Test No. 2 Date 9-29-2019
 Company Jalen Operating Company Elevation 2176 KB 2167 GL
 Address 100 N. Broadway Ave STE 2460 Oklahoma City, OK 73102+8868
 Co. Rep / Geo. Ken Leblanc Rig Duke Rig 4
 Location: Sec. 6 Twp 33S Rge. 23W Co. Clark State KS

Interval Tested 4566-4590 Zone Tested Lansing "B"
 Anchor Length 24' Drill Pipe Run 4569 Mud Wt. 9.3
 Top Packer Depth 4561 Drill Collars Run _____ Vis 43
 Bottom Packer Depth 4566 Wt. Pipe Run _____ WL 14.6
 Total Depth 4590 Chlorides 11,000 ppm System LCM 2#
 Blow Description IE - BOB 1min 5sec total build of 409"
EST - gas to surface 7mins into Shut-in 111" Blow back
FF - BOB 1min built to 8.6 PSI at 1/4 choke
FST - 28 psi blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>252</u>	<u>G.W.M.</u>	<u>10</u>	<u>20</u>	<u>70</u>	
<u>252</u>	<u>G.M.W.</u>	<u>10</u>	<u>80</u>	<u>10</u>	
<u>693</u>	<u>GW</u>	<u>10</u>	<u>90</u>		
	<u>G.I.P 3377'</u>				

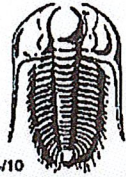
Rec Total 11.97 BHT 117 Gravity _____ API RW ~~128~~ @ ~~128~~ °F Chlorides ~~11,000~~ ppm

(A) Initial Hydrostatic 2362 Test 1300 T-On Location 10:00 AM
 (B) First Initial Flow 65 Jars _____ T-Started 11:10
 (C) First Final Flow 287 Safety Joint 75 T-Open 1:26 PM
 (D) Initial Shut-In 1581 Circ Sub _____ T-Pulled 5:26
 (E) Second Initial Flow 282 Hourly Standby _____ T-Out 8:29
 (F) Second Final Flow 594 Mileage 164 mi RT 180 Comments Loaded tools
 (G) Final Shut-In 1581 Sampler _____ after the test
 (H) Final Hydrostatic 2288 Straddle _____ for days off

Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 60 Extra Recorder _____
 Final Shut-In 90 Day Standby _____
 Sub Total 1555 Accessibility _____
 Sub Total 1555 EM Tool _____
 MP/DST Disc't _____ Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1555

Approved By Ken Leblanc Our Representative Benny Mulligan

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65915

NO.

Well Name & No. Carter 1-6 Test No. 3 Date 10/02/19
 Company Jolen Operating CO Elevation 2176 KB 2167 GL
 Address 100 N. Broadway Ave Ste 2460 Oklahoma City, OK 73102
 Co. Rep / Geo. Ken LeBlanc Rig Duke 4
 Location: Sec. 6 Twp 33S Rge. 23W Co. Clark State KS

Interval Tested 5086 - 5200 Zone Tested Pawnee
 Anchor Length 114 Drill Pipe Run 5088 Mud Wt. 9.9
 Top Packer Depth 5081 Drill Collars Run 0 Vls 54
 Bottom Packer Depth 5086 Wt. Pipe Run 0 WL 8.8
 Total Depth 5200 Chlorides 7500 ppm System LCM 4

Blow Description IF: Fair Blow, BOB in 11 minutes, Built to 62 inches

TSI: NO Blow Back

FF: Strong Blow, BOB immediate, Built to 220 inches

FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2334</u>	<u>GIP</u>				
<u>20</u>	<u>GCM</u>	<u>20%</u>			<u>80%</u>
<u>120</u>	<u>GOCM</u>	<u>12%</u>	<u>6%</u>		<u>82%</u>

Rec Total 140 BHT 117 Gravity NIC API RW NIC @ NIC F Chlorides _____ ppm

(A) Initial Hydrostatic 2519 Test 1400 T-On Location 10:45
 (B) First Initial Flow 23 Jars 250 T-Started 11:46
 (C) First Final Flow 47 Safety Joint 75 T-Open 14:11
 (D) Initial Shut-In 1780 Circ Sub _____ T-Pulled 18:00
 (E) Second Initial Flow 63 Hourly Standby _____ T-Out 20:30
 (F) Second Final Flow 82 Mileage 1902 180 Comments _____
 (G) Final Shut-In 1781 Sampler _____
 (H) Final Hydrostatic 2476 Straddle _____

Initial Open 30 Shale Packer _____ EM Tool _____
 Initial Shut-In 60 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 45 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 90 Day Standby _____ Extra Copies _____
 Sub Total 1905 Accessibility _____ Sub Total 0
 Total 1905 MP/DST Disc't _____

Approved By Ken LeBlanc Our Representative [Signature]

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