



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N #700
Wichita, KS 67278

ATTN: Max Lovely

Whitham 35ABD #1

36-16-37w Wichita,KS

Start Date: 2017.04.16 @ 12:31:02

End Date: 2017.04.16 @ 18:12:02

Job Ticket #: 63790 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.04.21 @ 07:54:25

Ritchie Exploration
36-16-37w Wichita,KS
Whitham 35ABD #1
DST # 1
LKC I
2017.04.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration
8100 E 22nd St N #700
Wichita, KS 67278
ATTN: Max Lovely

36-16-37w Wichita, KS
Whitham 35ABD #1
Job Ticket: 63790 **DST#: 1**
Test Start: 2017.04.16 @ 12:31:02

GENERAL INFORMATION:

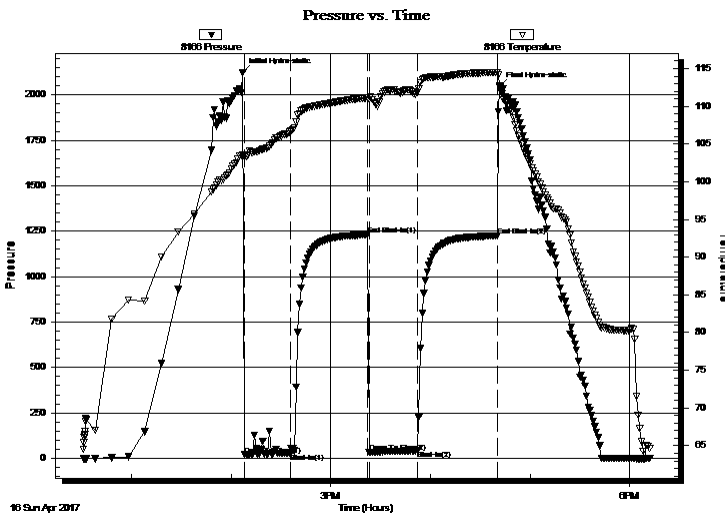
Formation: **LKC I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:08:02
Time Test Ended: 18:12:02
Interval: **4241.00 ft (KB) To 4275.00 ft (KB) (TVD)**
Total Depth: 4275.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 3345.00 ft (KB)
3340.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 Outside

Press@RunDepth: 42.12 psig @ 4242.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.04.16 End Date: 2017.04.16 Last Calib.: 2017.04.16
Start Time: 12:31:07 End Time: 18:12:01 Time On Btm: 2017.04.16 @ 14:07:02
Time Off Btm: 2017.04.16 @ 16:41:32

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.65	103.52	Initial Hydro-static
1	19.64	103.25	Open To Flow (1)
29	29.75	106.72	Shut-In(1)
75	1229.63	111.12	End Shut-In(1)
76	33.17	110.89	Open To Flow (2)
105	42.12	111.81	Shut-In(2)
153	1224.36	114.49	End Shut-In(2)
155	2043.82	112.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mcw 60%w 40%m	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration
8100 E 22nd St N #700
Wichita, KS 67278
ATTN: Max Lovely

36-16-37w Wichita, KS
Whitham 35ABD #1
Job Ticket: 63790 **DST#: 1**
Test Start: 2017.04.16 @ 12:31:02

Tool Information

Drill Pipe:	Length: 4101.00 ft	Diameter: 3.80 inches	Volume: 57.53 bbl	Tool Weight: 2000.00 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 58.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4241.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 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			4215.00	
Shut In Tool	5.00			4220.00	
Hydraulic tool	5.00			4225.00	
Jars	5.00			4230.00	
Safety Joint	2.00			4232.00	
Packer	5.00			4237.00	27.00 Bottom Of Top Packer
Packer	4.00			4241.00	
Stubb	1.00			4242.00	
Recorder	0.00	8875	Inside	4242.00	
Recorder	0.00	8166	Outside	4242.00	
Perforations	28.00			4270.00	
Bullnose	5.00			4275.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

36-16-37w Wichita,KS

8100 E 22nd St N #700
Wichita, KS 67278

Whitham 35ABD #1

Job Ticket: 63790

DST#: 1

ATTN: Max Lovely

Test Start: 2017.04.16 @ 12:31:02

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:

17500 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mcw 60%w 40%m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

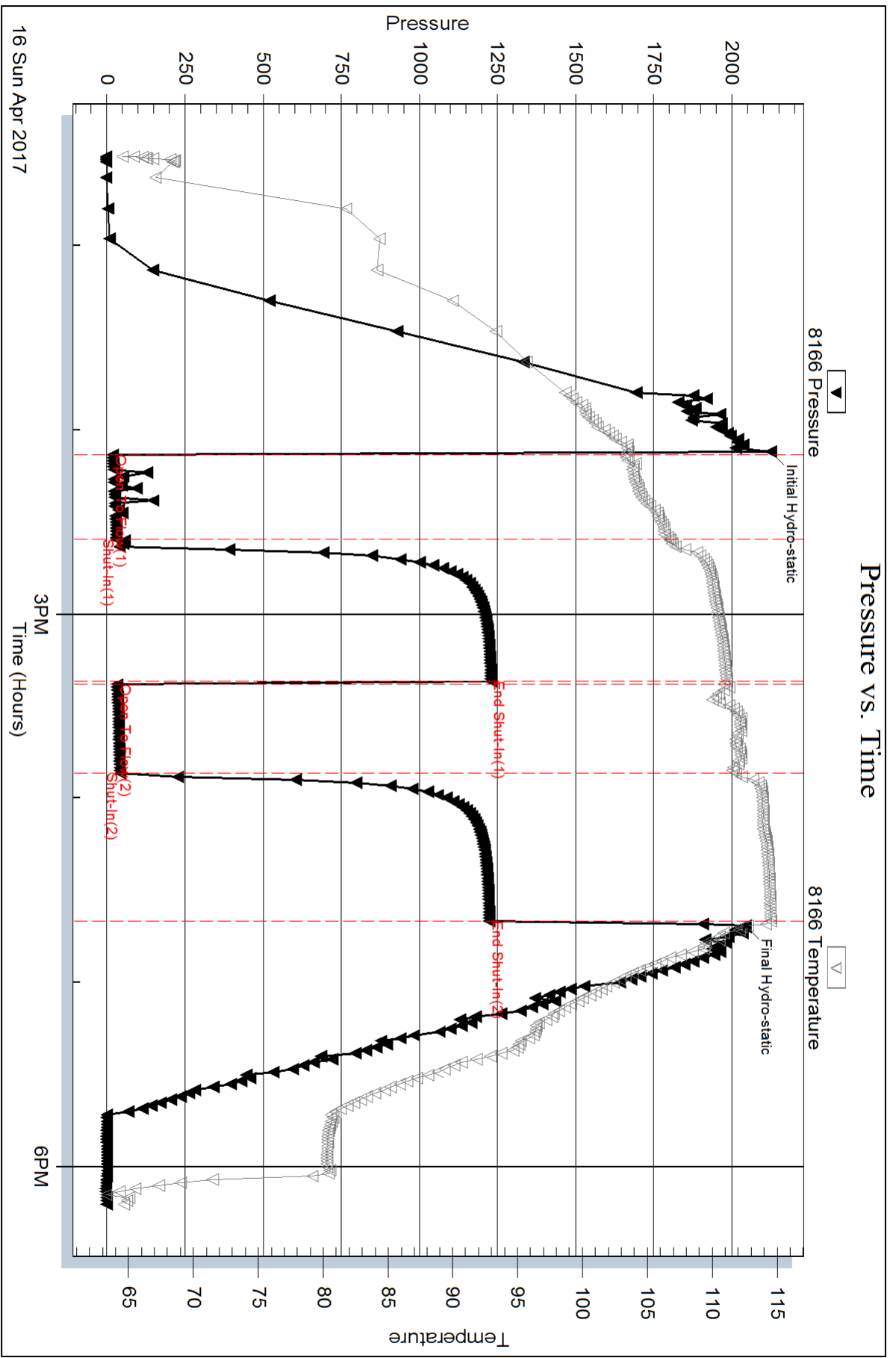
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .44@62=17500



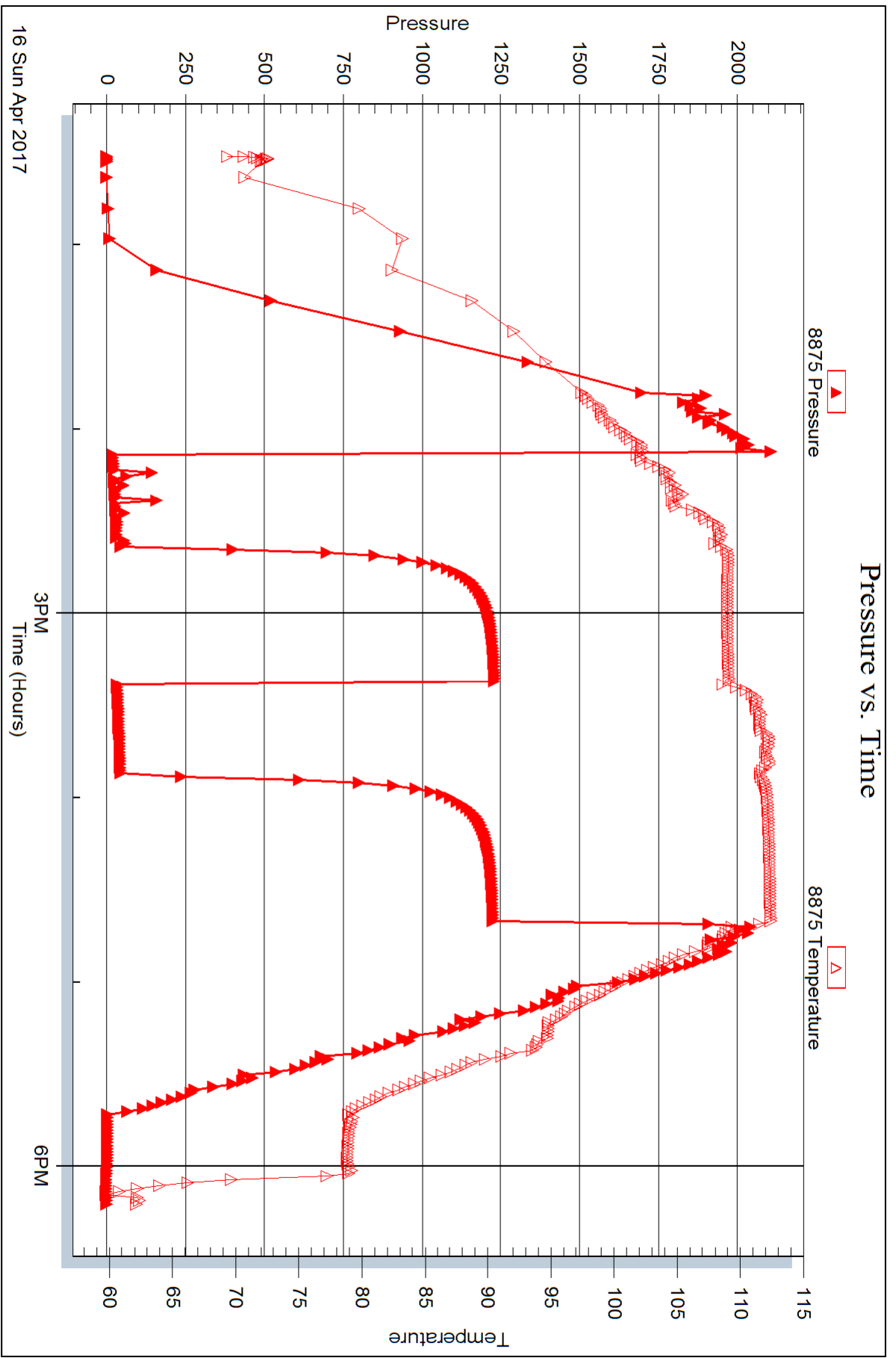
Serial #: 8875

Inside

Ritchie Exploration

Whitham 35ABD #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63790

Printed: 2017.04.21 @ 07:54:26



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N #700
Wichita, KS 67278

ATTN: Max Lovely

Whitham 35ABD #1

36-16-37w Wichita,KS

Start Date: 2017.04.17 @ 17:37:36

End Date: 2017.04.17 @ 23:32:06

Job Ticket #: 63791 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration
8100 E 22nd St N #700
Wichita, KS 67278
ATTN: Max Lovely

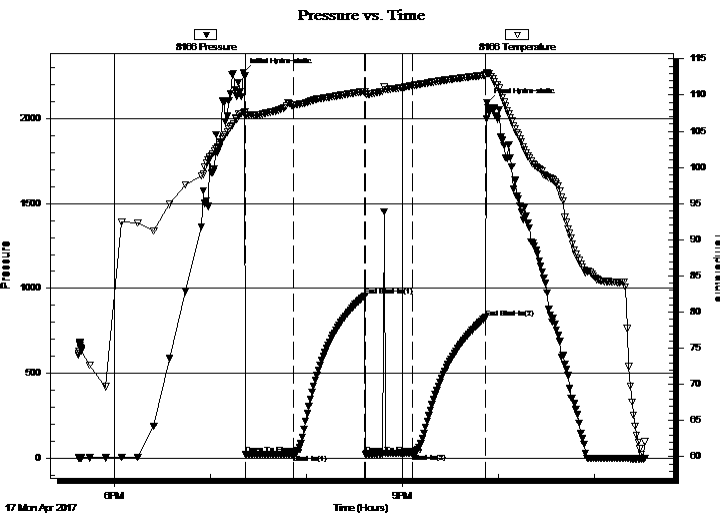
36-16-37w Wichita, KS
Whitham 35ABD #1
Job Ticket: 63791 **DST#: 2**
Test Start: 2017.04.17 @ 17:37:36

GENERAL INFORMATION:

Formation: **Altamont**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:22:06
Time Test Ended: 23:32:06
Interval: **4420.00 ft (KB) To 4472.00 ft (KB) (TVD)**
Total Depth: 4472.00 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: 3345.00 ft (KB)
3340.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
Press@RunDepth: 27.93 psig @ 4421.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.04.17 End Date: 2017.04.17 Last Calib.: 2017.04.17
Start Time: 17:37:41 End Time: 23:32:05 Time On Btm: 2017.04.17 @ 19:20:36
Time Off Btm: 2017.04.17 @ 21:53:06

TEST COMMENT: IF: 1/4" blow died to surging surface blow .
IS: No return.
FF: No blow . Flushed tool no blow .
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2273.30	107.56	Initial Hydro-static
2	20.43	107.15	Open To Flow (1)
32	23.84	108.70	Shut-In(1)
76	956.22	110.50	End Shut-In(1)
77	24.20	110.15	Open To Flow (2)
106	27.93	111.32	Shut-In(2)
152	827.91	112.77	End Shut-In(2)
153	2095.31	113.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration
8100 E 22nd St N #700
Wichita, KS 67278
ATTN: Max Lovely

36-16-37w Wichita, KS
Whitham 35ABD #1
Job Ticket: 63791 **DST#: 2**
Test Start: 2017.04.17 @ 17:37:36

Tool Information

Drill Pipe:	Length: 4294.00 ft	Diameter: 3.80 inches	Volume: 60.23 bbl	Tool Weight: 2000.00 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4420.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 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			4394.00	
Shut In Tool	5.00			4399.00	
Hydraulic tool	5.00			4404.00	
Jars	5.00			4409.00	
Safety Joint	2.00			4411.00	
Packer	5.00			4416.00	27.00 Bottom Of Top Packer
Packer	4.00			4420.00	
Stubb	1.00			4421.00	
Recorder	0.00	8875	Inside	4421.00	
Recorder	0.00	8166	Outside	4421.00	
Perforations	13.00			4434.00	
Change Over Sub	1.00			4435.00	
Drill Pipe	31.00			4466.00	
Change Over Sub	1.00			4467.00	
Bullnose	5.00			4472.00	52.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

36-16-37w Wichita,KS

8100 E 22nd St N #700
Wichita, KS 67278

Whitham 35ABD #1

Job Ticket: 63791

DST#: 2

ATTN: Max Lovely

Test Start: 2017.04.17 @ 17:37:36

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

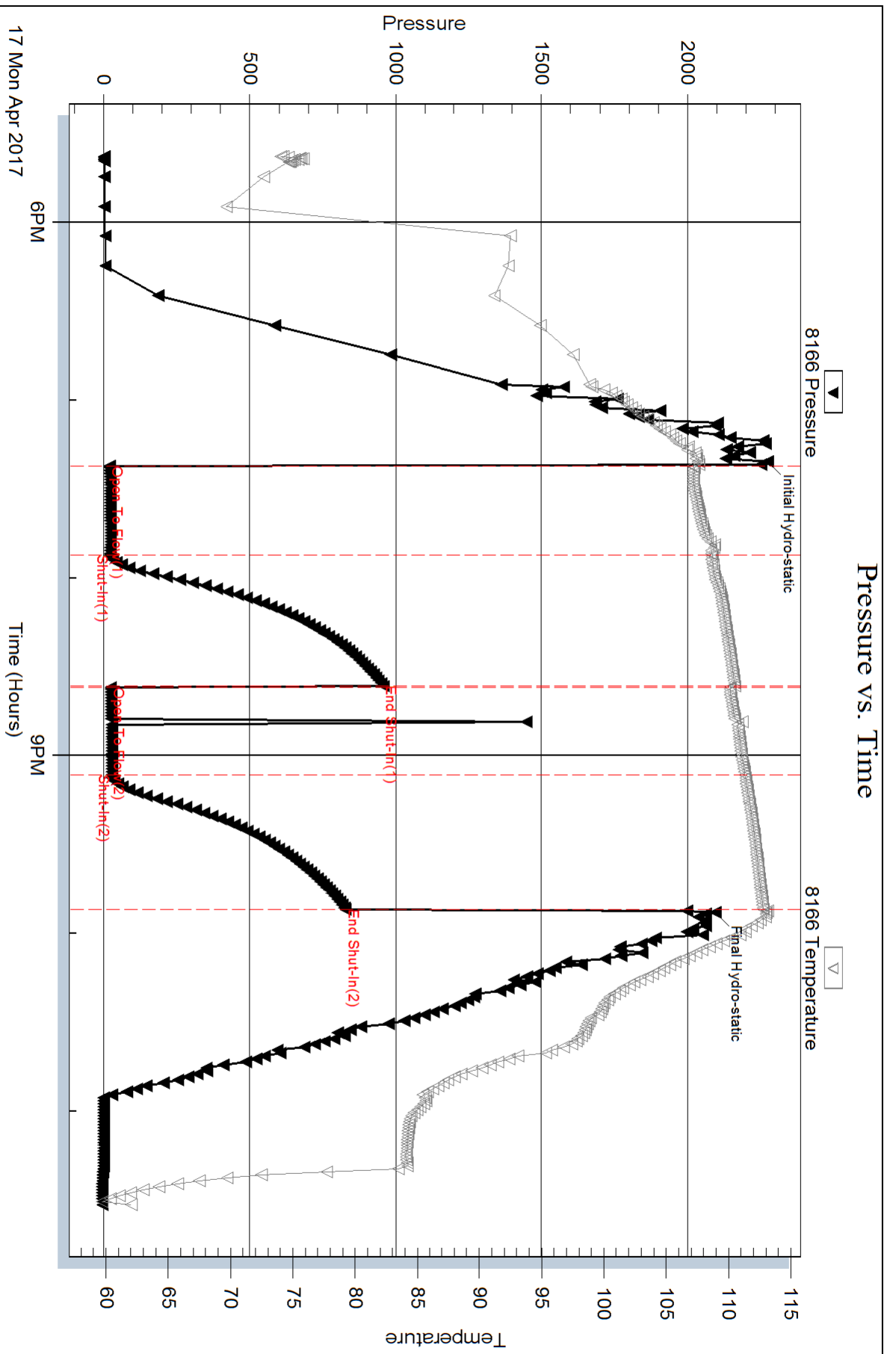
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 22nd St N #700
Wichita, KS 67278

ATTN: Max Lovely

Whitham 35ABD #1

36-16-37w Wichita,KS

Start Date: 2017.04.18 @ 13:04:41

End Date: 2017.04.18 @ 18:31:11

Job Ticket #: 63792 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.04.21 @ 07:52:42



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration
8100 E 22nd St N #700
Wichita, KS 67278
ATTN: Max Lovely

36-16-37w Wichita, KS

Whitham 35ABD #1

Job Ticket: 63792

DST#: 3

Test Start: 2017.04.18 @ 13:04:41

GENERAL INFORMATION:

Formation: **Altamont B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:50:41

Time Test Ended: 18:31:11

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4464.00 ft (KB) To 4648.00 ft (KB) (TVD)**

Reference Elevations: 3345.00 ft (KB)

Total Depth: 4548.00 ft (KB) (TVD)

3340.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8166 Outside

Press@RunDepth: 29.45 psig @ 4465.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.18

End Date:

2017.04.18

Last Calib.:

2017.04.18

Start Time:

13:04:46

End Time:

18:31:10

Time On Btm:

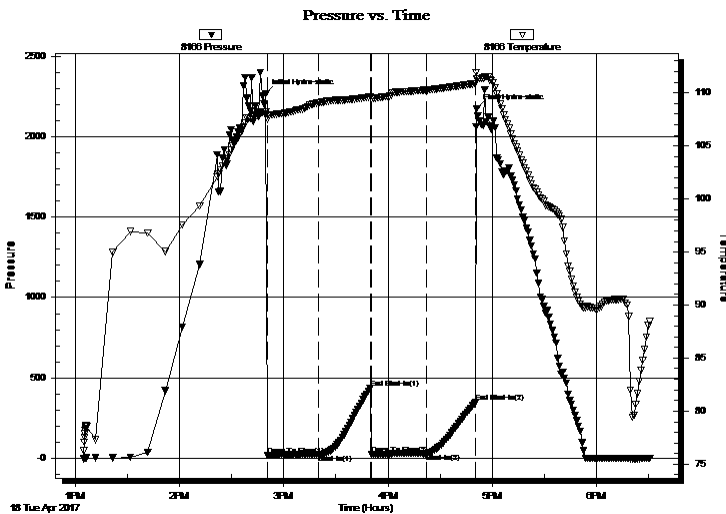
2017.04.18 @ 14:49:41

Time Off Btm:

2017.04.18 @ 16:51:11

TEST COMMENT: IF: Surface blow died in 7 min.
IS: No return.
FF: No blow. Flushed tool no blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2266.69	108.23	Initial Hydro-static
1	20.28	107.53	Open To Flow (1)
31	23.68	109.08	Shut-In(1)
60	434.90	109.62	End Shut-In(1)
61	24.37	109.43	Open To Flow (2)
93	29.45	110.27	Shut-In(2)
121	345.78	110.86	End Shut-In(2)
122	2172.26	111.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud oil spots 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

Ritchie Exploration
8100 E 22nd St N #700
Wichita, KS 67278
ATTN: Max Lovely

36-16-37w Wichita, KS
Whitham 35ABD #1
Job Ticket: 63792 **DST#: 3**
Test Start: 2017.04.18 @ 13:04:41

Tool Information

Drill Pipe:	Length: 4348.00 ft	Diameter: 3.80 inches	Volume: 60.99 bbl	Tool Weight: 2000.00 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4464.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	111.00 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			4438.00	
Shut In Tool	5.00			4443.00	
Hydraulic tool	5.00			4448.00	
Jars	5.00			4453.00	
Safety Joint	2.00			4455.00	
Packer	5.00			4460.00	27.00 Bottom Of Top Packer
Packer	4.00			4464.00	
Stubb	1.00			4465.00	
Recorder	0.00	8875	Inside	4465.00	
Recorder	0.00	8166	Outside	4465.00	
Perforations	13.00			4478.00	
Change Over Sub	1.00			4479.00	
Drill Pipe	63.00			4542.00	
Change Over Sub	1.00			4543.00	
Bullnose	5.00			4548.00	84.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

36-16-37w Wichita,KS

8100 E 22nd St N #700
Wichita, KS 67278

Whitham 35ABD #1

Job Ticket: 63792

DST#: 3

ATTN: Max Lovely

Test Start: 2017.04.18 @ 13:04:41

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud oil spots 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

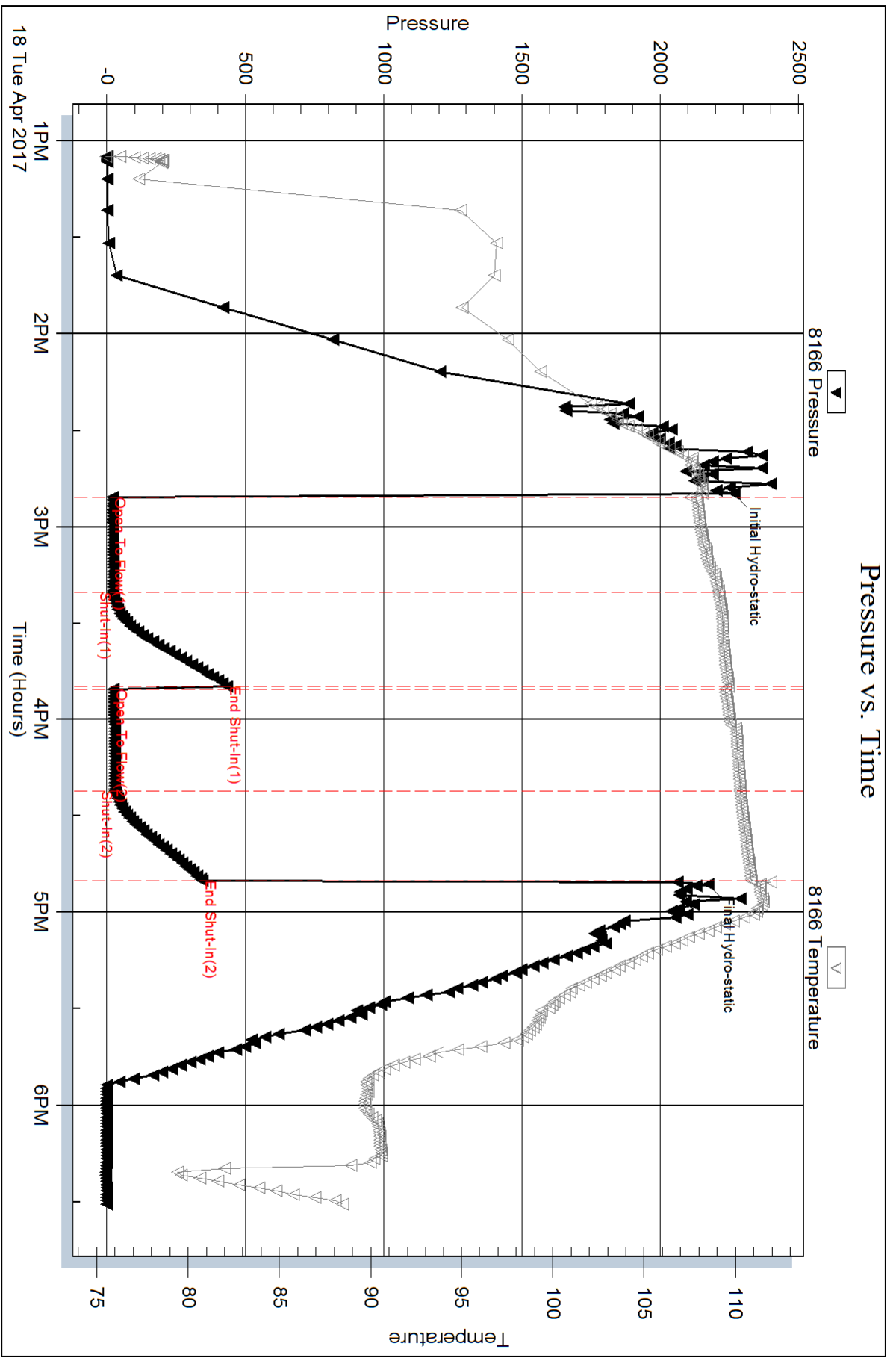
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



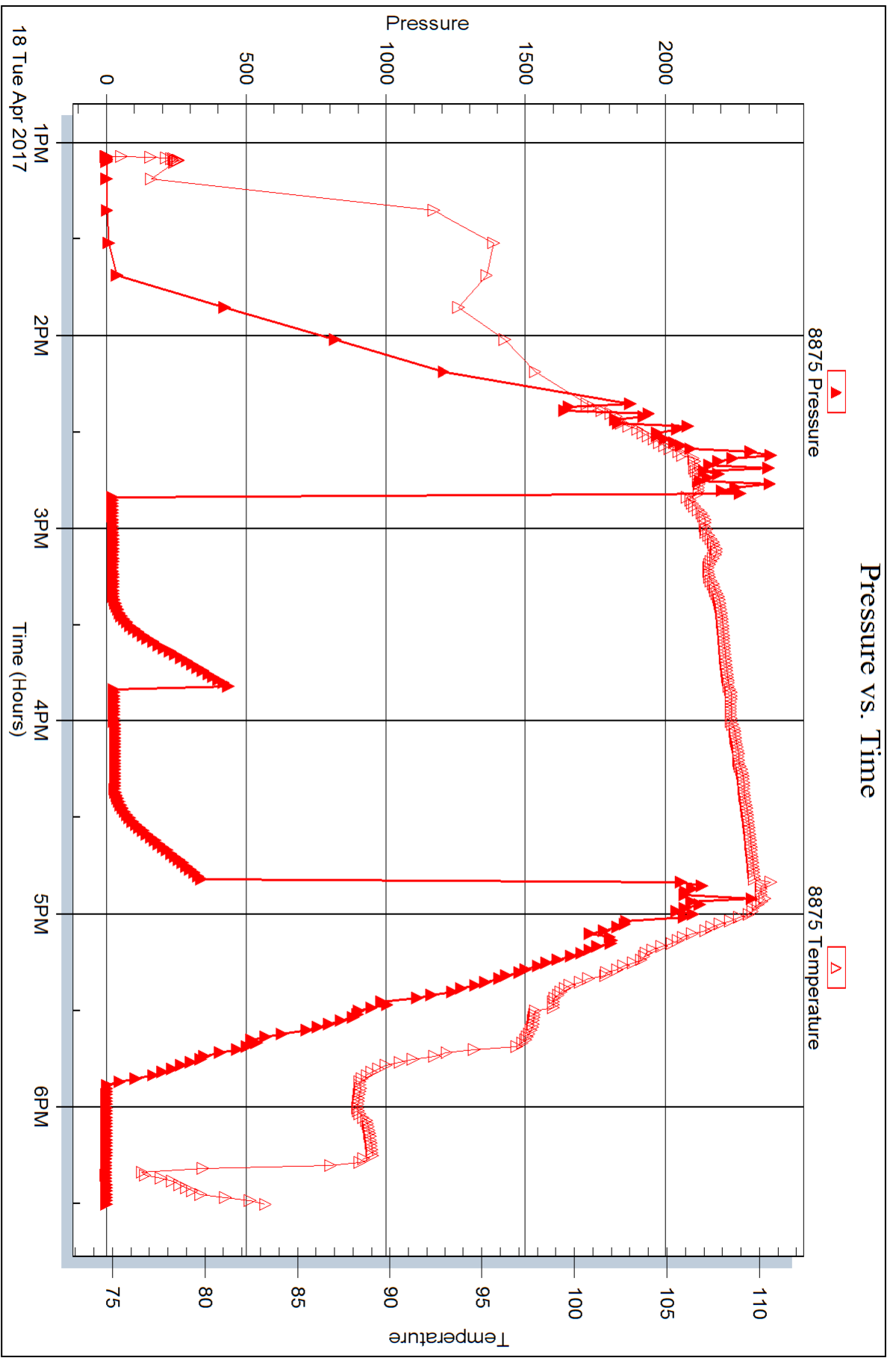
Serial #: 8875

Inside

Ritchie Exploration

Whitham 35ABD #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63790**

Well Name & No. Whithorn 35ABD #1 Test No. 1 Date 4-16-19
 Company Ritchie Exploration Elevation 3345 KB 3346 GL
 Address 8100 E 22ND St N #700 Wichita, KS 67278
 Co. Rep / Geo. Max Lovely Rig WW #10
 Location: Sec. 35 Twp. 16 Rge. 37W Co. Wichita State KS

Interval Tested 4241 4275 Zone Tested LMSing ±
 Anchor Length 34 Drill Pipe Run 4101 Mud Wt. 9.3
 Top Packer Depth 4236 Drill Collars Run 119 Vis 67
 Bottom Packer Depth 4241 Wt. Pipe Run — WL 8.0
 Total Depth 4275 Chlorides 5600 ppm System LCM 1 ? 4 1/2

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

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>MCW</u>			<u>60</u>	<u>40</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 60 BHT 114 Gravity — API RW 44 @ 62 ° F Chlorides 17,500 ppm

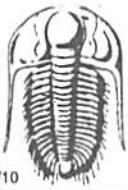
(A) Initial Hydrostatic 2123 Test 1150 T-On Location 11:50
 (B) First Initial Flow 19 Jars 250 T-Started 12:31
 (C) First Final Flow 29 Safety Joint 75 T-Open 14:09
 (D) Initial Shut-In 1229 Circ Sub NK T-Pulled 16:37
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 18:12
 (F) Second Final Flow 42 Mileage 78 - 58.50 Comments _____
 (G) Final Shut-In 1224 Sampler _____
 (H) Final Hydrostatic 2043 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1533.50

Sub Total 1533.50

Approved By Max Lovely 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. **63791**

Well Name & No. Whithorn 35 ABD #1 Test No. 2 Date 4-17-17
 Company Ritchie Exploration Elevation 3345 KB 3340 GL
 Address _____
 Co. Rep / Geo. Max Lovely Rig WW #10
 Location: Sec. 35 Twp. 16 Rge. 37w Co. Wichita State KS

Interval Tested 4420 4472 Zone Tested Althmont
 Anchor Length 52 Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 4415 Drill Collars Run 119 Vis 64
 Bottom Packer Depth 4420 Wt. Pipe Run _____ WL 8.8
 Total Depth 4472 Chlorides _____ ppm System LCM 5

Blow Description IF: 1/4 blow died to surging surface blow.
IS: No return.
FF: No blow. Flushed tool no blow.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</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 10 BHT 112 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2273</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>17:20</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:37</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:20</u>
(D) Initial Shut-In <u>956</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>21:50</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:38</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>78-</u> 58.50	Comments _____
(G) Final Shut-In <u>827</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2095</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Sub Total 1533.50

Approved By Max Lovely 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. **63792**

Well Name & No. Whithm 35 ABD #1 Test No. 3 Date 4-18-17
 Company Ritchie Exploration Elevation 3355 KB 3340 GL
 Address _____
 Co. Rep / Geo. Max Lovely Rig WW #10
 Location: Sec. 35 Twp. 16 Rge. 37W Co. Wichita State KS

Interval Tested 4464 4548 Zone Tested Altmont B-c
 Anchor Length 84 Drill Pipe Run 4348 Mud Wt. 9.3
 Top Packer Depth 4459 Drill Collars Run 119 Vis 54
 Bottom Packer Depth 4464 Wt. Pipe Run — WL 9.6
 Total Depth 4548 Chlorides 7000 ppm System LCM 4

Blow Description IFI surface blow died in 7 min.
IS: No return.
FFI No blow, Flashed tool no blow.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud oil spots</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 110 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2266</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>12:45</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:04</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:50</u>
(D) Initial Shut-In <u>434</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>16:50</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:32</u>
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>78-x2</u> 117	Comments <u>Released on</u>
(G) Final Shut-In <u>345</u>	<input type="checkbox"/> Sampler	<u>4-21-17 at 4:36 am</u>
(H) Final Hydrostatic <u>2172</u>	<input type="checkbox"/> Straddle	<u>loaded 4/20 15:00</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input checked="" type="checkbox"/> Day Standby <u>1.5d 8.5</u>	Sub Total <u>800</u>
	<input type="checkbox"/> Accessibility	Total <u>1592</u>
	Sub Total <u>1592</u>	MP/DST Disc't _____

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