



DRILL STEM TEST REPORT

Prepared For: **Bickle Energy LLC.**

P.O. Box 816
Hays KS 67601

ATTN: Kieth Reavis

A.B. Fisher #14-1

14-5S-37W Cheyenne KS

Start Date: 2019.01.27 @ 00:19:00

End Date: 2019.01.27 @ 10:37:49

Job Ticket #: 65281 DST #: 1

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

Printed: 2019.01.31 @ 14:26:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bickle Energy LLC.

14-5S-37W Cheyenne KS

P.O. Box 816
Hays KS 67601

A.B. Fisher #14-1

Job Ticket: 65281

DST#: 1

ATTN: Kieth Reavis

Test Start: 2019.01.27 @ 00:19:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:00:30

Time Test Ended: 10:37:49

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 71

Interval: **4200.00 ft (KB) To 4262.00 ft (KB) (TVD)**

Reference Elevations: 3377.00 ft (KB)

Total Depth: 4262.00 ft (KB) (TVD)

3372.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 70.65 psig @ 4201.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.01.27

End Date:

2019.01.27

Last Calib.:

2019.01.28

Start Time: 00:19:01

End Time:

10:37:49

Time On Btm:

2019.01.27 @ 06:00:09

Time Off Btm:

2019.01.27 @ 08:58:10

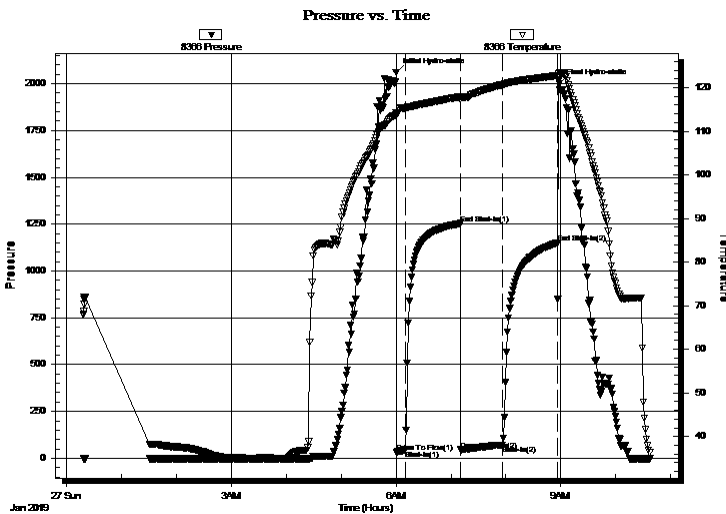
TEST COMMENT: 10 IF - Slide 6' blow built to 3"

60 ISI - No return

45 FF - Blow built to 2"

60 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.09	114.18	Initial Hydro-static
1	32.08	113.61	Open To Flow (1)
10	41.99	115.31	Shut-In(1)
71	1253.55	117.95	End Shut-In(1)
71	44.37	117.23	Open To Flow (2)
117	70.65	120.70	Shut-In(2)
177	1151.35	122.81	End Shut-In(2)
179	2000.63	123.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCM - 10%o - 90%M	0.59
2.00	Oil 100%o	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bickle Energy LLC.

14-5S-37W Cheyenne KS

P.O. Box 816
Hays KS 67601

A.B. Fisher #14-1

Job Ticket: 65281

DST#: 1

ATTN: Kieth Reavis

Test Start: 2019.01.27 @ 00:19:00

Tool Information

Drill Pipe:	Length: 4063.00 ft	Diameter: 3.80 inches	Volume: 56.99 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: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.58 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4200.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 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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Shut In Tool	5.00			4177.00	
Hydraulic tool	5.00			4182.00	
Jars	5.00			4187.00	
Safety Joint	3.00			4190.00	
Packer	5.00			4195.00	28.00 Bottom Of Top Packer
Packer	5.00			4200.00	
Stubb	1.00			4201.00	
Recorder	0.00	8353	Inside	4201.00	
Recorder	0.00	8366	Outside	4201.00	
Perforations	25.00			4226.00	
Blank Spacing	33.00			4259.00	
Bullnose	3.00			4262.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energy LLC.

14-5S-37W Cheyenne KS

P.O. Box 816
Hays KS 67601

A.B. Fisher #14-1

Job Ticket: 65281

DST#: 1

ATTN: Kieth Reavis

Test Start: 2019.01.27 @ 00:19:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

18.5 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OCM - 10%o - 90%M	0.590
2.00	Oil 100%o	0.028

Total Length: 122.00 ft Total Volume: 0.618 bbl

Num Fluid Samples: 0

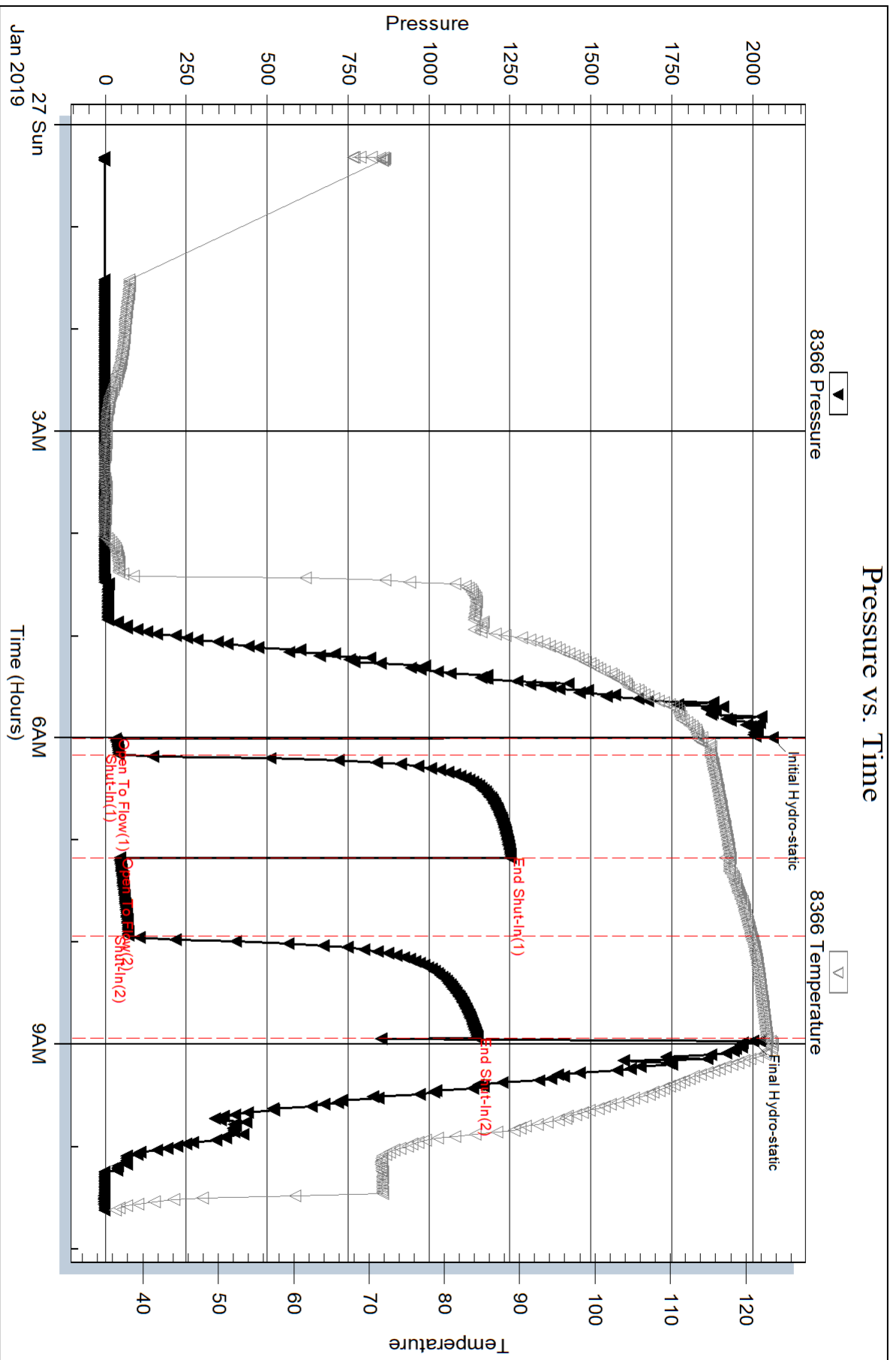
Num Gas Bombs: 0

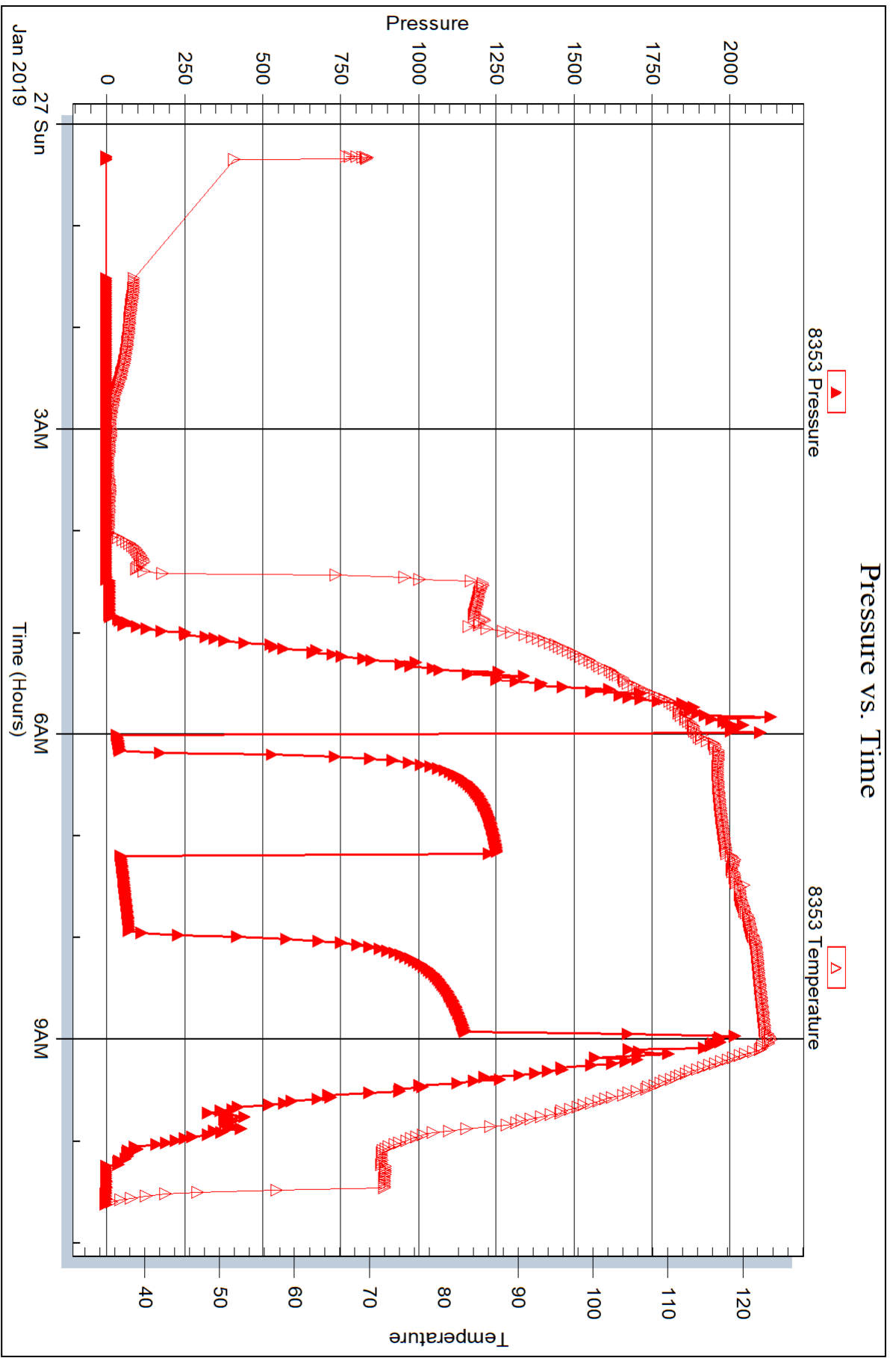
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 21 @ 85 DEG F = 18.5 COR 60 DEG F







DRILL STEM TEST REPORT

Prepared For: **Bickle Energy LLC.**

P.O. Box 816
Hays KS 67601

ATTN: Kieth Reavis

A.B. Fisher #14-1

14-5S-37W Cheyenne KS

Start Date: 2019.01.29 @ 08:51:00

End Date: 2019.01.29 @ 14:16:09

Job Ticket #: 65282 DST #: 2

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

Printed: 2019.01.31 @ 14:19:56



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bickle Energy LLC.

14-5S-37W Cheyenne KS

P.O. Box 816
Hays KS 67601

A.B. Fisher #14-1

Job Ticket: 65282

DST#: 2

ATTN: Kieth Reavis

Test Start: 2019.01.29 @ 08:51:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 10:51:40

Time Test Ended: 14:16:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4380.00 ft (KB) To 4462.00 ft (KB) (TVD)

Total Depth: 4462.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3377.00 ft (KB)

3372.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Outside

Press@RunDepth: 32.50 psig @ 4381.00 ft (KB)

Start Date: 2019.01.29

End Date:

2019.01.29

Start Time: 08:51:01

End Time:

14:16:10

Capacity: 8000.00 psig

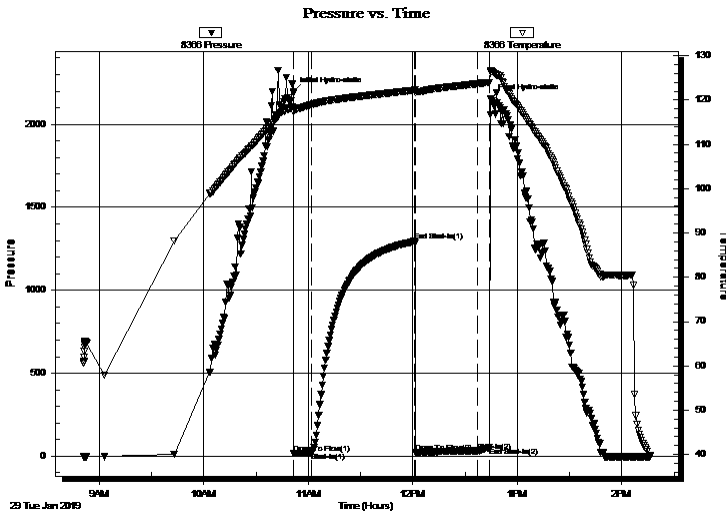
Last Calib.: 2019.01.29

Time On Btm: 2019.01.29 @ 10:51:30

Time Off Btm: 2019.01.29 @ 12:44:50

TEST COMMENT: 10 IF - Blow built to 1"
60 ISI - Weak surface blow
35 FF - Blow built to 1"
5 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2196.72	118.20	Initial Hydro-static
1	16.76	117.43	Open To Flow (1)
11	20.51	118.94	Shut-In(1)
70	1294.95	122.20	End Shut-In(1)
71	23.33	121.61	Open To Flow (2)
106	32.50	123.67	Shut-In(2)
113	54.91	123.98	End Shut-In(2)
114	2155.61	126.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w /trace oil 100%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bickle Energy LLC.

14-5S-37W Cheyenne KS

P.O. Box 816
Hays KS 67601

A.B. Fisher #14-1

Job Ticket: 65282

DST#: 2

ATTN: Kieth Reavis

Test Start: 2019.01.29 @ 08:51:00

Tool Information

Drill Pipe:	Length: 4252.00 ft	Diameter: 3.80 inches	Volume: 59.64 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: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4380.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	110.00 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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Shut In Tool	5.00			4357.00	
Hydraulic tool	5.00			4362.00	
Jars	5.00			4367.00	
Safety Joint	3.00			4370.00	
Packer	5.00			4375.00	28.00 Bottom Of Top Packer
Packer	5.00			4380.00	
Stubb	1.00			4381.00	
Recorder	0.00	8353	Inside	4381.00	
Recorder	0.00	8366	Outside	4381.00	
Perforations	12.00			4393.00	
Blank Spacing	66.00			4459.00	
Bullnose	3.00			4462.00	82.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energy LLC.

14-5S-37W Cheyenne KS

P.O. Box 816
Hays KS 67601

A.B. Fisher #14-1

Job Ticket: 65282

DST#: 2

ATTN: Kieth Reavis

Test Start: 2019.01.29 @ 08:51:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.49 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud w /trace oil 100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

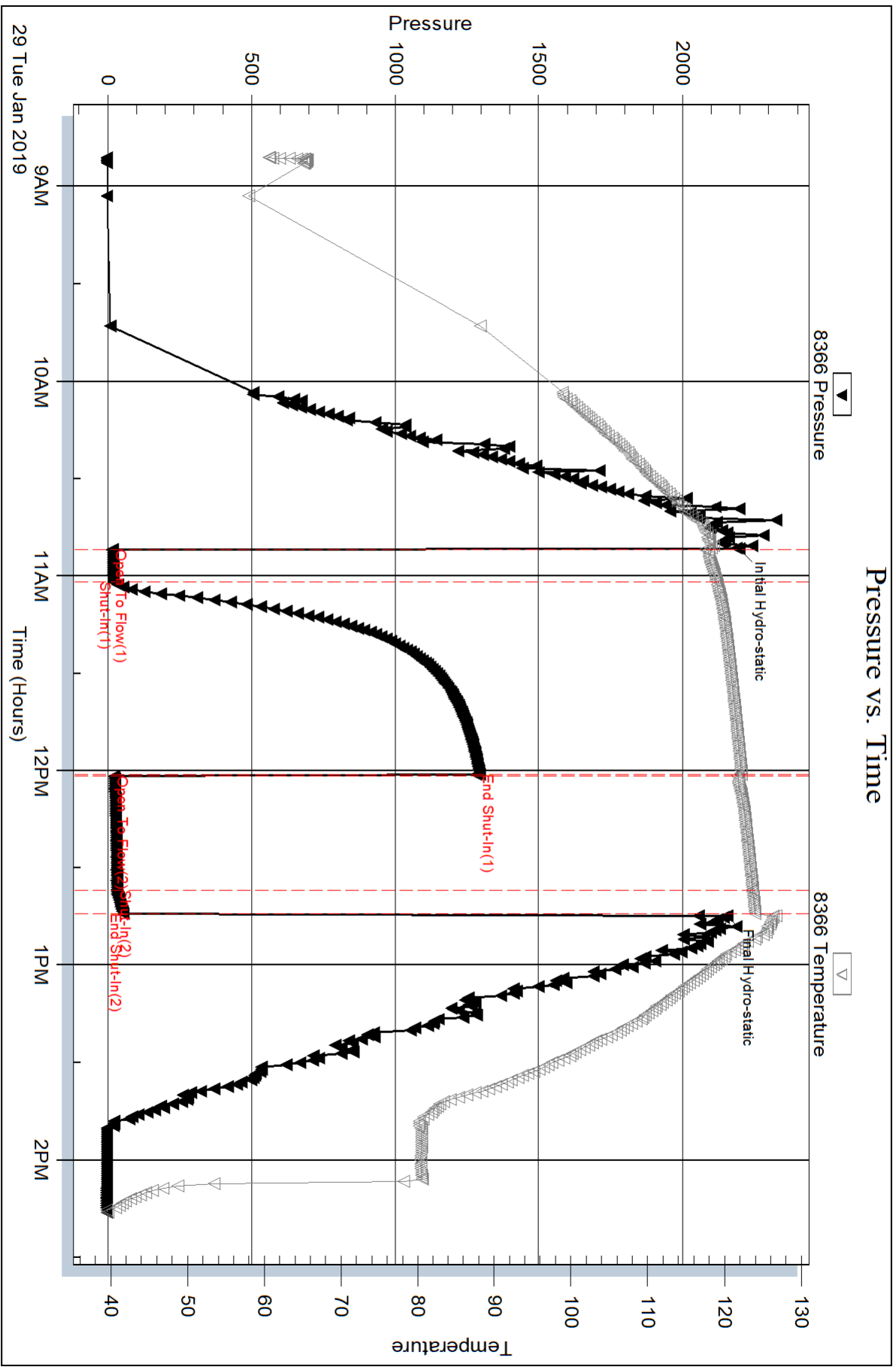
Num Gas Bombs: 0

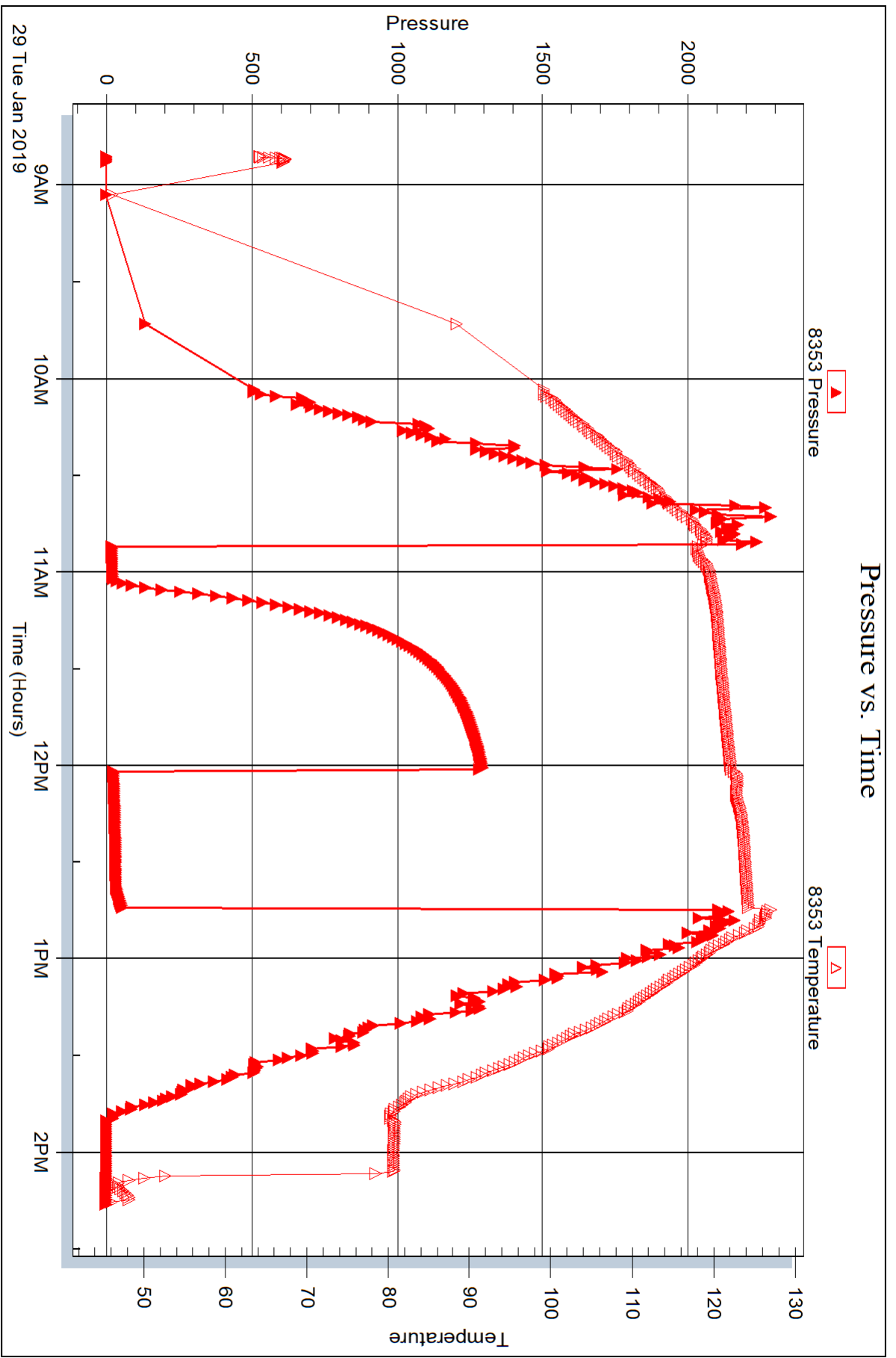
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Bickle Energy LLC.**

P.O. Box 816
Hays KS 67601

ATTN: Kieth Reavis

A.B. Fisher #14-1

14-5S-37W Cheyenne KS

Start Date: 2019.01.30 @ 09:29:00

End Date: 2019.01.30 @ 18:29:40

Job Ticket #: 65283 DST #: 3

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

Printed: 2019.01.31 @ 14:00:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bickle Energy LLC.

14-5S-37W Cheyenne KS

P.O. Box 816
Hays KS 67601

A.B. Fisher #14-1

Job Ticket: 65283

DST#: 3

ATTN: Kieth Reavis

Test Start: 2019.01.30 @ 09:29:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 11:45:40

Time Test Ended: 18:29:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4620.00 ft (KB) To 4652.00 ft (KB) (TVD)

Reference Elevations: 3377.00 ft (KB)

Total Depth: 4652.00 ft (KB) (TVD)

3372.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 785.32 psig @ 4621.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.01.30

End Date:

2019.01.30

Last Calib.:

2019.01.30

Start Time: 09:29:01

End Time:

18:29:40

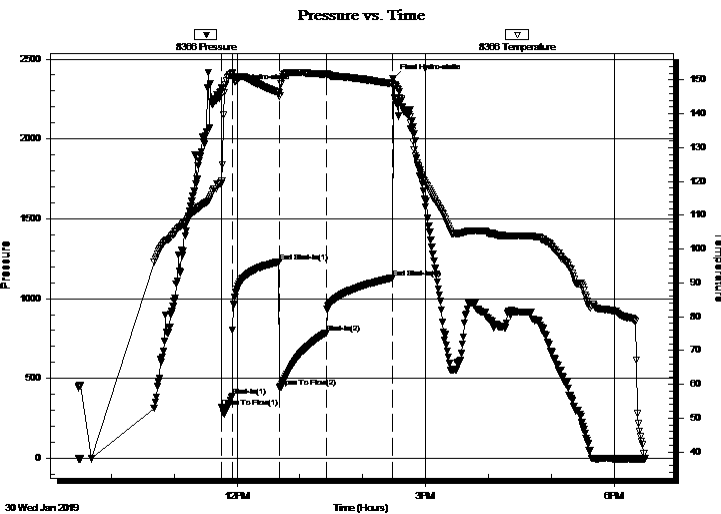
Time On Btm:

2019.01.30 @ 11:45:20

Time Off Btm:

2019.01.30 @ 14:29:00

TEST COMMENT: 10 IF - BoB @ 50 seconds
45 ISI - BoB @ 10 mins
45 FF - BoB @ 1min gas to surface @ 40 mins
60 FSI - BoB @ 8 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2317.38	119.49	Initial Hydro-static
1	321.04	120.07	Open To Flow (1)
11	389.65	151.92	Shut-In(1)
55	1230.04	146.33	End Shut-In(1)
56	444.61	145.18	Open To Flow (2)
100	785.32	151.68	Shut-In(2)
164	1129.20	148.88	End Shut-In(2)
164	2377.49	148.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW - 20%M - 80%W	0.59
1880.00	GO - 40%G - 60%o	26.37
0.00	2500' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bickle Energy LLC.

14-5S-37W Cheyenne KS

P.O. Box 816
Hays KS 67601

A.B. Fisher #14-1

Job Ticket: 65283

DST#: 3

ATTN: Kieth Reavis

Test Start: 2019.01.30 @ 09:29:00

Tool Information

Drill Pipe:	Length: 4505.00 ft	Diameter: 3.80 inches	Volume: 63.19 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: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 63.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4620.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 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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Shut In Tool	5.00			4597.00	
Hydraulic tool	5.00			4602.00	
Jars	5.00			4607.00	
Safety Joint	3.00			4610.00	
Packer	5.00			4615.00	28.00 Bottom Of Top Packer
Packer	5.00			4620.00	
Stubb	1.00			4621.00	
Recorder	0.00	8353	Inside	4621.00	
Recorder	0.00	8366	Outside	4621.00	
Perforations	28.00			4649.00	
Bullnose	3.00			4652.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energy LLC.

14-5S-37W Cheyenne KS

P.O. Box 816
Hays KS 67601

A.B. Fisher #14-1

Job Ticket: 65283

DST#: 3

ATTN: Kieth Reavis

Test Start: 2019.01.30 @ 09:29:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34.5 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCW - 20%M - 80%W	0.590
1880.00	GO - 40%G - 60%o	26.371
0.00	2500' GIP	0.000

Total Length: 2000.00 ft Total Volume: 26.961 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

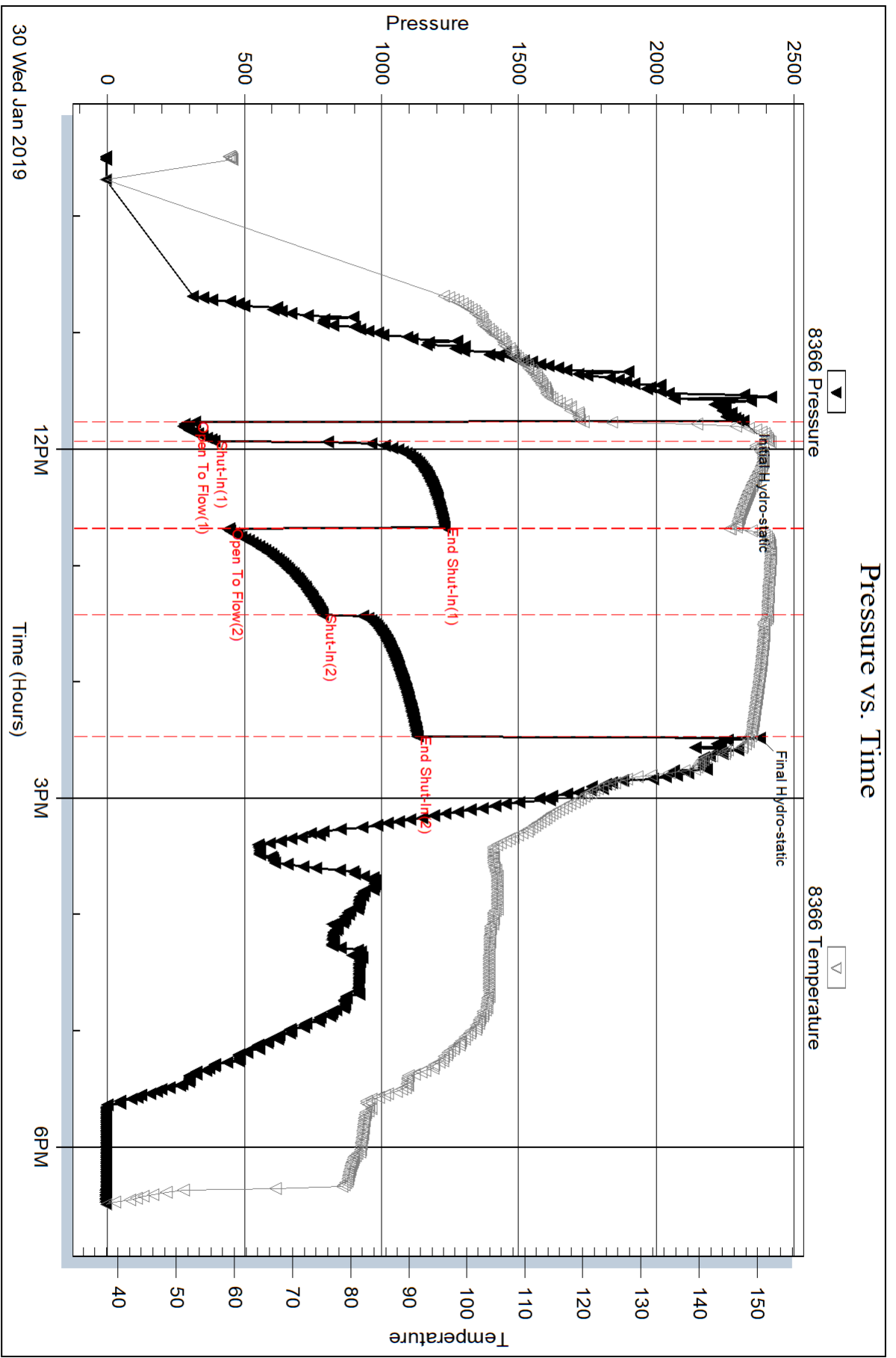
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 33 @ 45 DEG F = 34.5 COR 60 DEG F

RW = .268 @ 29 DEG F

Chlorides = 66,000 ppm



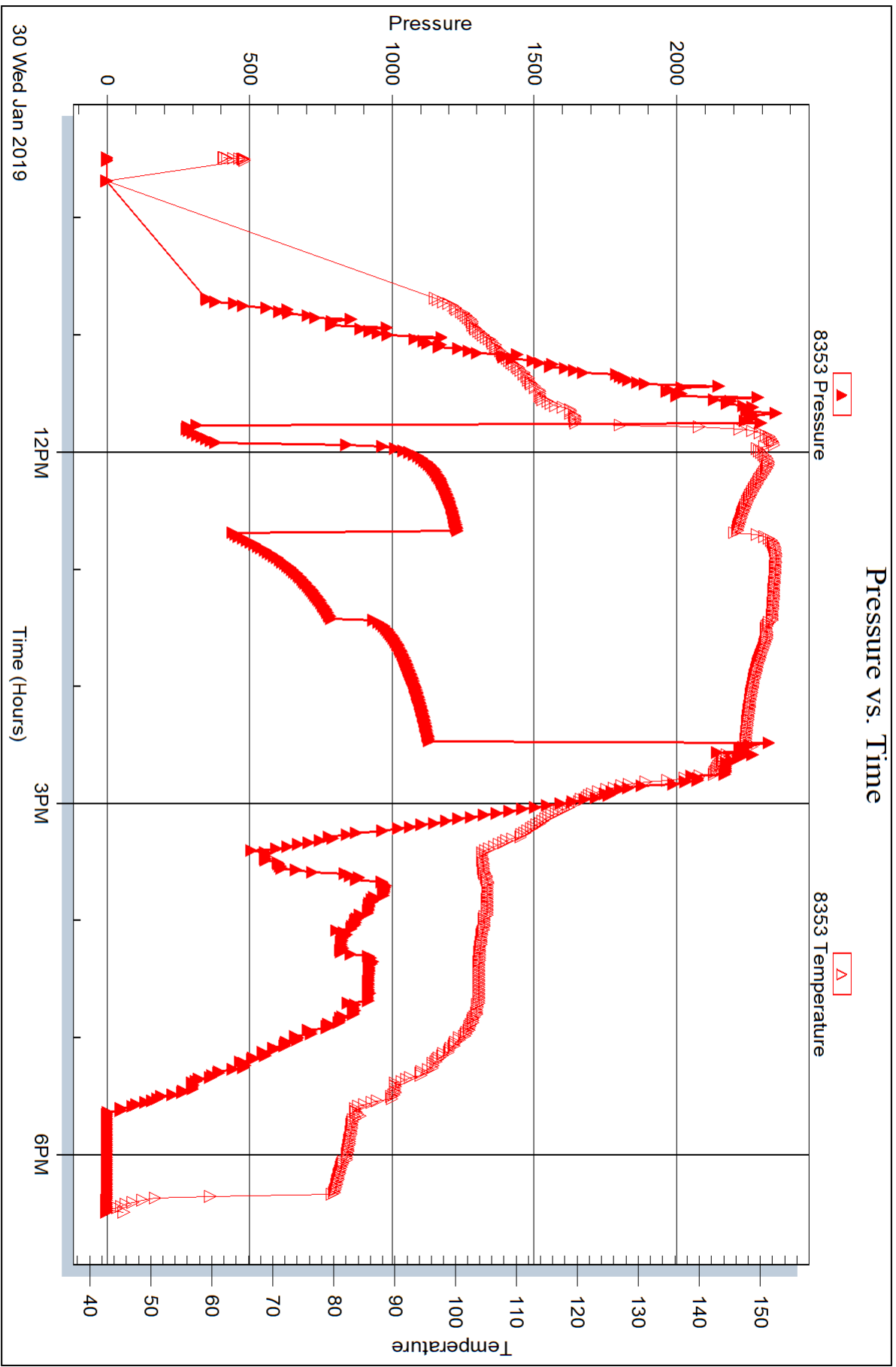
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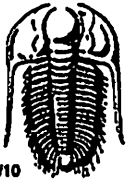
Inside

Bickle Energy LLC.

A.B. Fisher #14-1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65281

Well Name & No. A.B. Fisher #14-1 Test No. 1 Date 1/27/19
 Company Bickle Energies LLC. Elevation 3377 KB 3372 GL
 Address P.O. Box 816 Hays KS 67601
 Co. Rep / Geo. Keith Keavis Rig WW #10
 Location: Sec. 14 Twp 55 Rge. 37W Co. Cherokee State KS

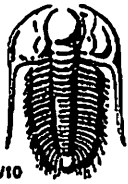
Interval Tested 4200' - 4262' Zone Tested Toronto - LKC "A"
 Anchor Length 62' Drill Pipe Run 4063' Mud Wt. 8.9
 Top Packer Depth 4195' Drill Collars Run 120' Vls 54
 Bottom Packer Depth 4200' Wt. Pipe Run 0' WL 7.2
 Total Depth 4262' Chlorides 500 ppm System LCM 2
 Blow Description 10 IF - Slide 6' blow built to 3"
60 ISI - No return
45 FF - Blow built to 2"
60 FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>Oil</u>	<u>100</u>			
<u>120'</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	

Rec Total 122' BHT 123° Gravity 18.5 COR 60°F API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2060</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>23:30</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:19</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>06:00</u>
(D) Initial Shut-In <u>1254</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>08:58</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:40</u>
(F) Second Final Flow <u>71</u>	<input type="checkbox"/> Mileage <u>124 RT</u> 124	Comments <u>Tripped 3/4 way</u>
(G) Final Shut-In <u>1151</u>	<input type="checkbox"/> Sampler	<u>out pulled tight went in</u>
(H) Final Hydrostatic <u>2001</u>	<input type="checkbox"/> Straddle	<u>& reconditioned</u>
Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> EM Tool
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1599</u>
	Sub Total <u>1599</u>	MP/DST Disc't

Approved By _____ Our Representative Keith Keavis
 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. 65282

Well Name & No. A. B. Fisher #14-1 Test No. 2 Date 1/29/19
 Company Bickle Energy LLC. Elevation 3377 KB 3372 GL
 Address P.O. Box 816 Hays KS 67601
 Co. Rep / Geo. Keith Reavis Rig WW #10
 Location: Sec. 14 Twp 55 Rge. 37W Co. Cheyenne State KS

Interval Tested 4380 - 4462 Zone Tested LKC "H-J"
 Anchor Length 82' Drill Pipe Run 4252' Mud Wt. 9.3
 Top Packer Depth 4375 Drill Collars Run 120' Vis 50
 Bottom Packer Depth 4380 Wt. Pipe Run 0' WL 7.5
 Total Depth 4462 Chlorides 500 ppm System LCM 2
 Blow Description 10 IF - Blow built to 1"
60 ISI - Weak surface blow
35 FF - Blow built to 1"
5 FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>Mud w/ trace oil</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 Total 15' BHT 124° Gravity — API RW ← @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2197</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>07:30</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>08:51</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:51</u>
(D) Initial Shut-In <u>1295</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>12:44</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:00</u>
(F) Second Final Flow <u>33</u>	<input checked="" type="checkbox"/> Mileage <u>124 RT</u> 124	Comments
(G) Final Shut-In <u>55</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2156</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>35</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>5</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1599</u>
	Sub Total <u>1599</u>	MP/DST Disc't

Approved By _____ Our Representative K. Reavis

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. 65283

Well Name & No. A.B Fisher #14-1 Test No. 3 Date 1/30/19
 Company Bickle Energy LLC Elevation 3377 KB 3372 GL
 Address P.O. Box 816 Hays KS 67601
 Co. Rep / Geo. Keith Reavis Rig WW #10
 Location: Sec. 14 Twp 55 Rge. 37W Co. Cheyenne State KS

Interval Tested 4620 - 4652 Zone Tested Pawnee
 Anchor Length 32' Drill Pipe Run 4505 Mud Wt. 9.3
 Top Packer Depth 4615 Drill Collars Run 120' Vis 54
 Bottom Packer Depth 4620 Wt. Pipe Run 0' WL 7.6
 Total Depth 4652 Chlorides 500 ppm System LCM 2

Blow Description 10 IF - BoB @ 50 seconds
45 ISI - BoB @ 10 mins
45 FF - BoB @ 1 min gas to surface @ 40 mins
60 FSI - BoB @ 8 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>1880</u>	<u>GO</u>	<u>40</u>	<u>60</u>		
<u>120</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2000 BHT 128 Gravity 34.5 @ 60°F API RW 268 @ 29 °F Chlorides 66,000 ppm

(A) Initial Hydrostatic 2317
 (B) First Initial Flow 321
 (C) First Final Flow 390
 (D) Initial Shut-In 1230
 (E) Second Initial Flow 445
 (F) Second Final Flow 785
 (G) Final Shut-In 1129
 (H) Final Hydrostatic 2378

Initial Open 10
 Initial Shut-in 45
 Final Flow 45
 Final Shut-In 60

Test 1150
 Jars 250
 Safety Joint 75
 Circ Sub used 50
 Hourly Standby
 Mileage 124 RT 124
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1649

T-On Location 09:00
 T-Started 09:29
 T-Open 11:45
 T-Pulled 14:28
 T-Out 18:45
 Comments 2500' GIP
 EM Tool
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1649
 MP/DST Disc't

Approved By _____ Our Representative Keith Reavis

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