



DRILL STEM TEST REPORT

Prepared For: **Bickle Energies, LLC**

PO Box 816
Hays, KS 67601

ATTN: Eli Felts

Shallow River #1A

26-12s-33w Logan,KS

Start Date: 2016.08.29 @ 16:24:00

End Date: 2016.08.30 @ 00:32:30

Job Ticket #: 65553 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.09.06 @ 13:42:50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bickle Energies, LLC

26-12s-33w Logan,KS

PO Box 816
Hays, KS 67601

Shallow River #1A

ATTN: Eli Felts

Job Ticket: 65553

DST#: 1

Test Start: 2016.08.29 @ 16:24:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:51:30

Time Test Ended: 00:32:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4262.00 ft (KB) To 4288.00 ft (KB) (TVD)

Reference Elevations: 3093.00 ft (KB)

Total Depth: 4288.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8365

Inside

Press@RunDepth: 20.88 psig @ 4263.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.29

End Date:

2016.08.30

Last Calib.:

2016.08.30

Start Time: 16:24:05

End Time:

00:32:29

Time On Btm:

2016.08.29 @ 19:51:15

Time Off Btm:

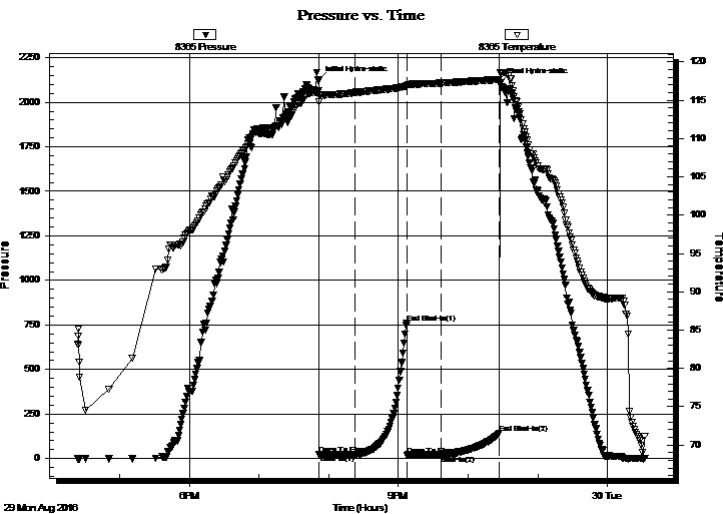
2016.08.29 @ 22:27:45

TEST COMMENT: IF: Surface blow, died @ 17 minutes

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2124.48	116.27	Initial Hydro-static
1	21.84	114.76	Open To Flow (1)
32	21.65	115.99	Shut-In(1)
76	759.49	116.83	End Shut-In(1)
77	20.30	116.89	Open To Flow (2)
106	20.88	117.23	Shut-In(2)
156	141.86	117.68	End Shut-In(2)
157	2108.50	118.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (Oil spots)	0.21
0.00	oil puddle on top	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bickle Energies, LLC

26-12s-33w Logan,KS

PO Box 816
Hays, KS 67601

Shallow River #1A

Job Ticket: 65553

DST#: 1

ATTN: Eli Felts

Test Start: 2016.08.29 @ 16:24:00

Tool Information

Drill Pipe:	Length: 4250.00 ft	Diameter: 3.80 inches	Volume: 59.62 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 59.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4262.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 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			4236.00	
Shut In Tool	5.00			4241.00	
Hydraulic tool	5.00			4246.00	
Jars	5.00			4251.00	
Safety Joint	2.00			4253.00	
Packer	5.00			4258.00	27.00 Bottom Of Top Packer
Packer	4.00			4262.00	
Stubb	1.00			4263.00	
Recorder	0.00	8365	Inside	4263.00	
Recorder	0.00	8845	Outside	4263.00	
Perforations	22.00			4285.00	
Bullnose	3.00			4288.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energies, LLC

26-12s-33w Logan,KS

PO Box 816
Hays, KS 67601

Shallow River #1A

Job Ticket: 65553

DST#: 1

ATTN: Eli Felts

Test Start: 2016.08.29 @ 16:24:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100m (Oil spots)	0.210
0.00	oil puddle on top	0.000

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

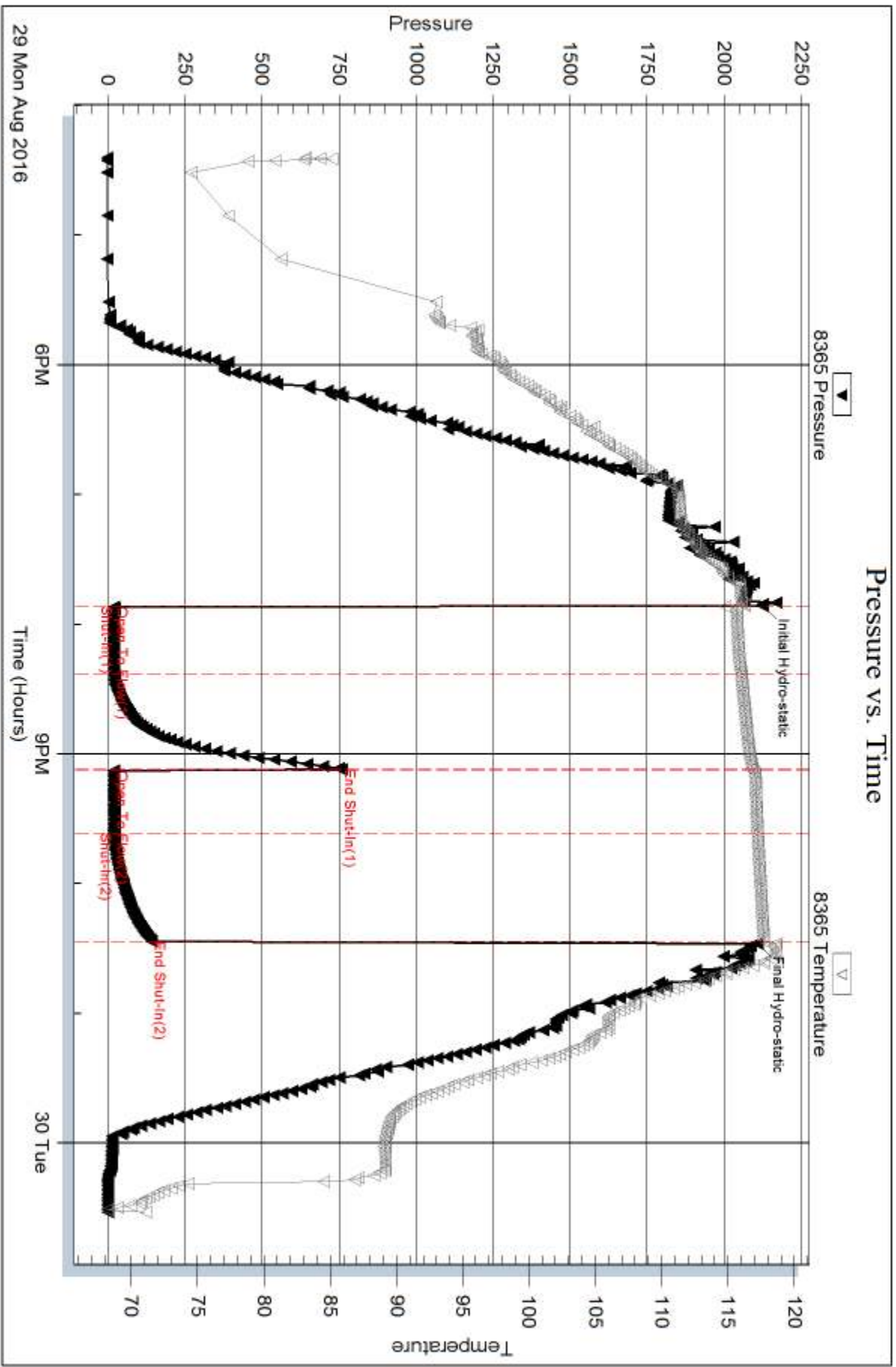
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

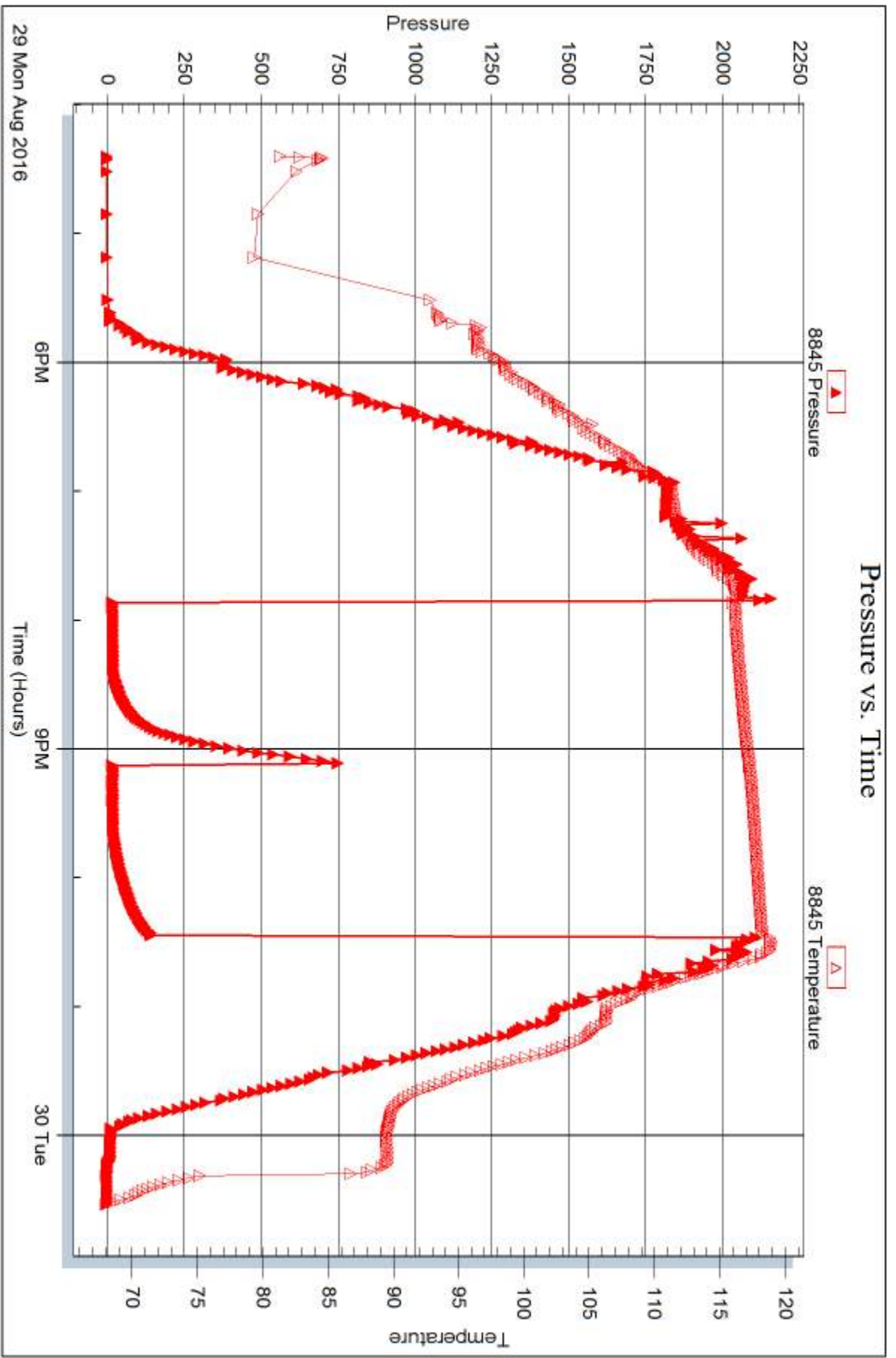


Serial #: 8845

Outside Bickie Energies, LLC

Shallow River #1A

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65553

Printed: 2016.09.06 @ 13:42:51



DRILL STEM TEST REPORT

Prepared For: **Bickle Energies, LLC**

PO Box 816
Hays, KS 67601

ATTN: Eli Felts

Shallow River #1A

26-12s-33w Logan,KS

Start Date: 2016.08.31 @ 17:18:00

End Date: 2016.09.01 @ 01:28:00

Job Ticket #: 65554 DST #: 2

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

Printed: 2016.09.06 @ 13:41:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bickle Energies, LLC

26-12s-33w Logan,KS

PO Box 816
Hays, KS 67601

Shallow River #1A

ATTN: Eli Felts

Job Ticket: 65554

DST#: 2

Test Start: 2016.08.31 @ 17:18:00

GENERAL INFORMATION:

Formation: **Pawnee - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:32:15

Time Test Ended: 01:28:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4470.00 ft (KB) To 4552.00 ft (KB) (TVD)

Reference Elevations: 3093.00 ft (KB)

Total Depth: 4552.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8365

Inside

Press@RunDepth: 22.47 psig @ 4471.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.31

End Date:

2016.09.01

Last Calib.: 2016.09.01

Start Time: 17:18:05

End Time:

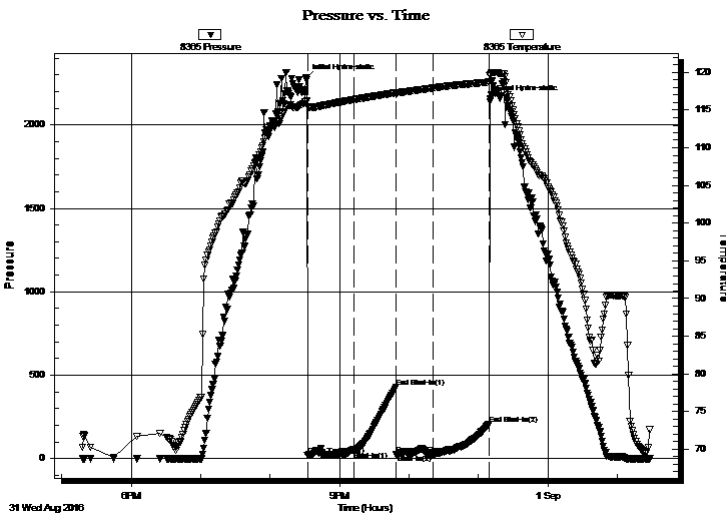
01:27:59

Time On Btm: 2016.08.31 @ 20:31:00

Time Off Btm: 2016.08.31 @ 23:10:15

TEST COMMENT: IF: Surface blow , died @ 10 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	2279.65	116.17	Initial Hydro-static
2	20.74	115.44	Open To Flow (1)
42	44.19	116.39	Shut-In(1)
78	426.20	117.30	End Shut-In(1)
78	25.19	117.13	Open To Flow (2)
110	22.47	117.92	Shut-In(2)
158	204.52	118.71	End Shut-In(2)
160	2154.63	119.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m oil spots in tool	0.07

* 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

Bickle Energies, LLC

26-12s-33w Logan,KS

PO Box 816
Hays, KS 67601

Shallow River #1A

Job Ticket: 65554

DST#: 2

ATTN: Eli Felts

Test Start: 2016.08.31 @ 17:18:00

Tool Information

Drill Pipe:	Length: 4470.00 ft	Diameter: 3.80 inches	Volume: 62.70 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 62.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	4470.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	109.00 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			4444.00	
Shut In Tool	5.00			4449.00	
Hydraulic tool	5.00			4454.00	
Jars	5.00			4459.00	
Safety Joint	2.00			4461.00	
Packer	5.00			4466.00	27.00 Bottom Of Top Packer
Packer	4.00			4470.00	
Stubb	1.00			4471.00	
Recorder	0.00	8365	Inside	4471.00	
Recorder	0.00	8845	Outside	4471.00	
Perforations	13.00			4484.00	
Change Over Sub	1.00			4485.00	
Drill Pipe	63.00			4548.00	
Change Over Sub	1.00			4549.00	
Bullnose	3.00			4552.00	82.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energies, LLC

26-12s-33w Logan,KS

PO Box 816
Hays, KS 67601

Shallow River #1A

Job Ticket: 65554

DST#: 2

ATTN: Eli Felts

Test Start: 2016.08.31 @ 17:18:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m oil spots in tool	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

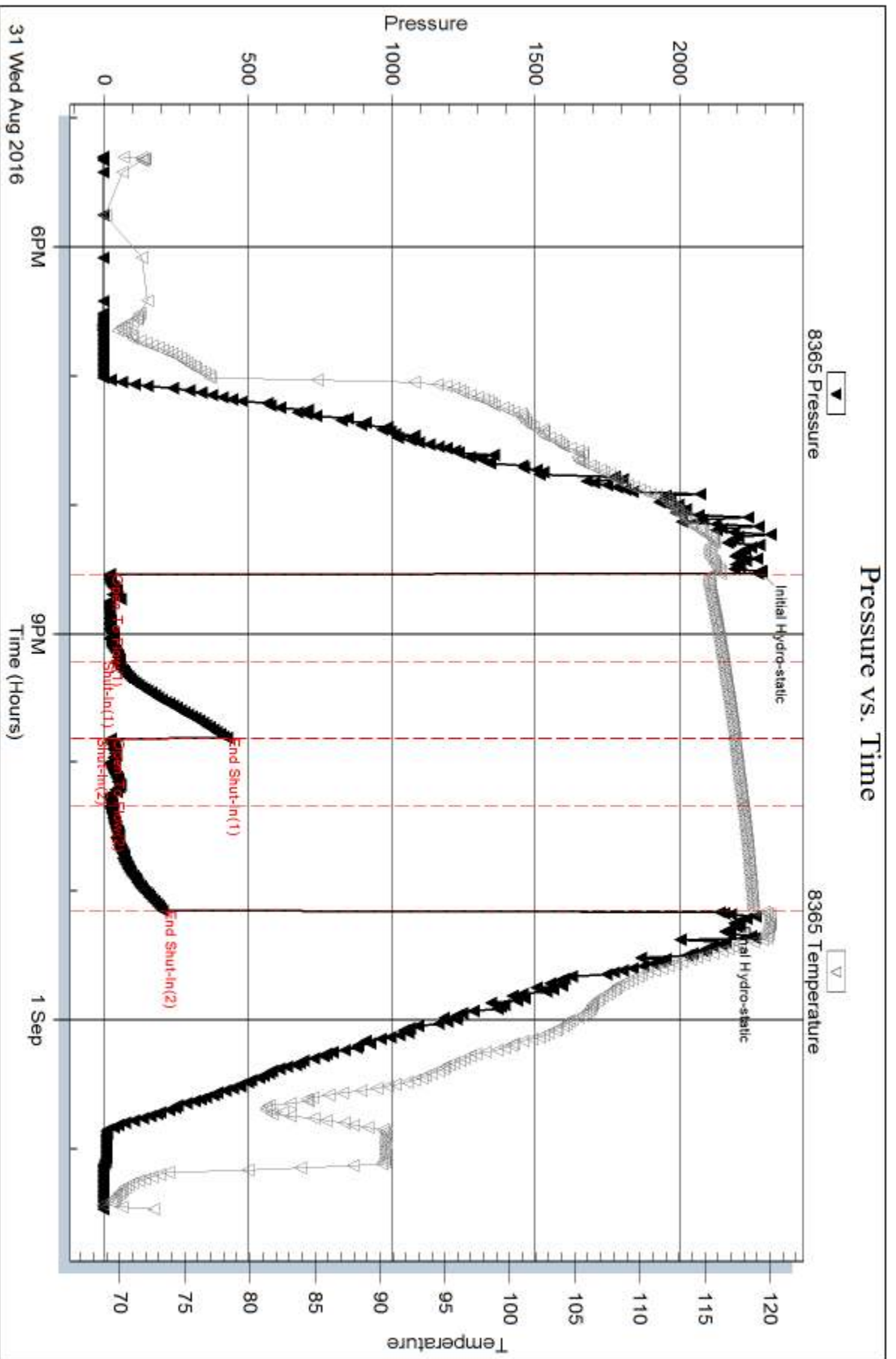
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

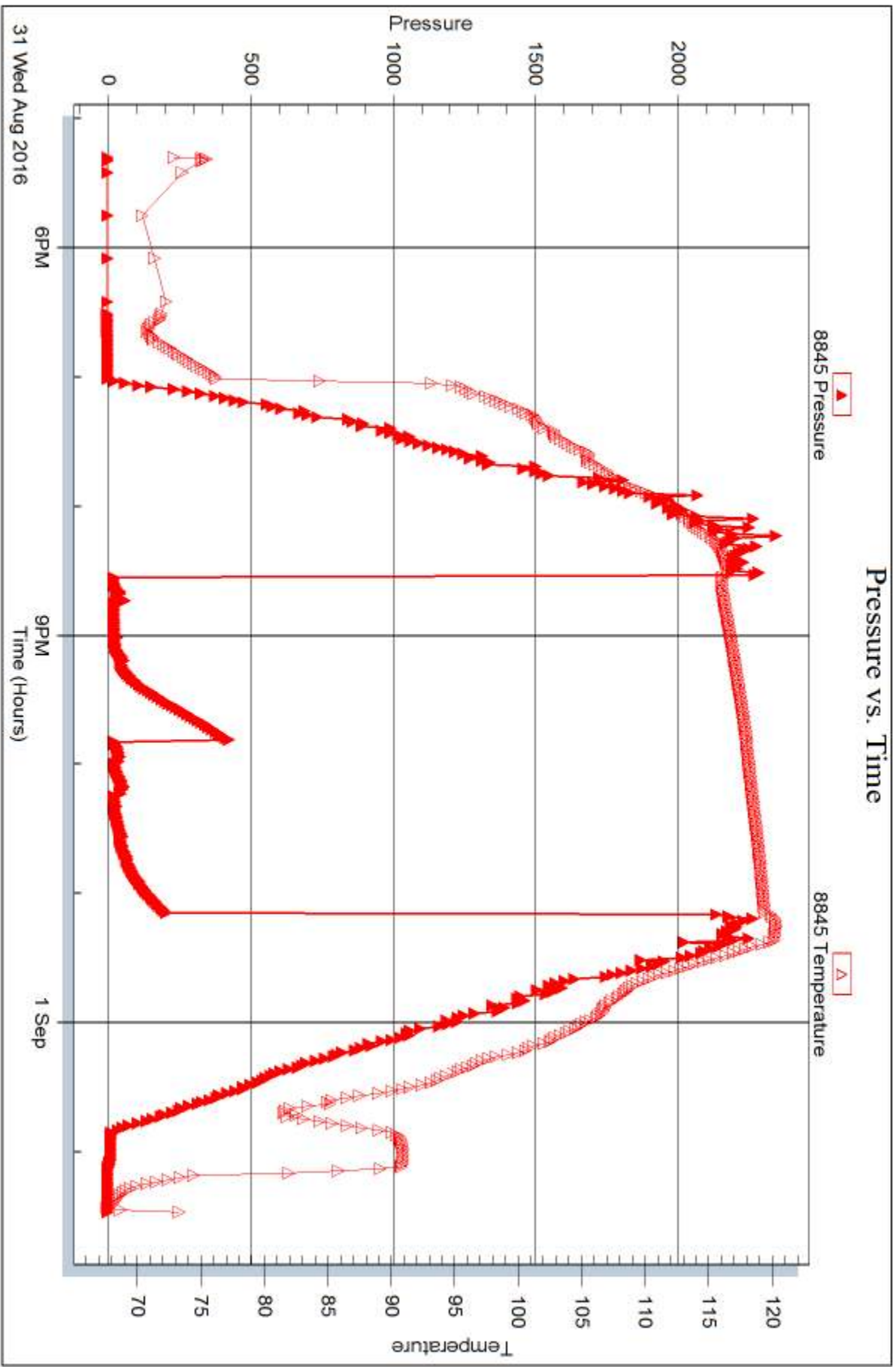


Serial #: 8845

Outside Bickie Energies, LLC

Shallow River #1A

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65554

Printed: 2016.09.06 @ 13:41:49



DRILL STEM TEST REPORT

Prepared For: **Bickle Energies, LLC**

PO Box 816
Hays, KS 67601

ATTN: Eli Felts

Shallow River #1A

26-12s-33w Logan,KS

Start Date: 2016.09.01 @ 15:33:00

End Date: 2016.09.01 @ 22:55:15

Job Ticket #: 65555 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.09.06 @ 13:41:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bickle Energies, LLC

26-12s-33w Logan,KS

PO Box 816
Hays, KS 67601

Shallow River #1A

Job Ticket: 65555

DST#: 3

ATTN: Eli Felts

Test Start: 2016.09.01 @ 15:33:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:46:15

Time Test Ended: 22:55:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4580.00 ft (KB) To 4636.00 ft (KB) (TVD)

Reference Elevations: 3093.00 ft (KB)

Total Depth: 4636.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8365

Inside

Press@RunDepth: 33.11 psig @ 4581.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.01

End Date:

2016.09.01

Last Calib.: 2016.09.01

Start Time: 15:33:05

End Time:

22:55:14

Time On Btm: 2016.09.01 @ 17:45:45

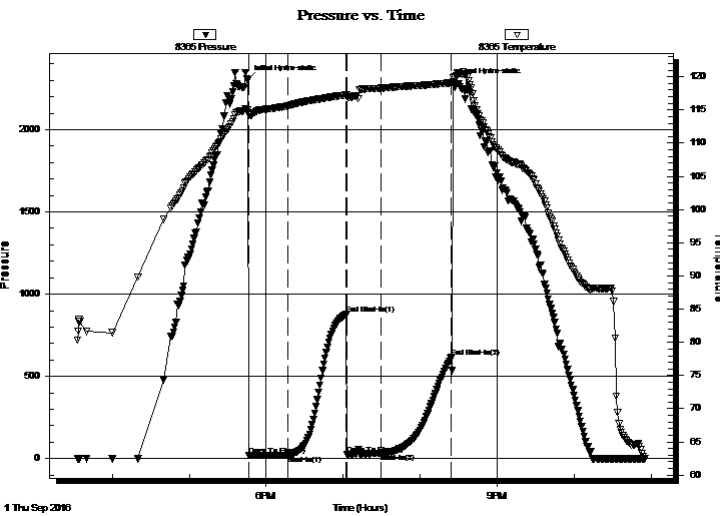
Time Off Btm: 2016.09.01 @ 20:25:45

TEST COMMENT: IF: Surface blow .

IS: No return.

FF: No blow , Flushed tool. blow died

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.72	114.96	Initial Hydro-static
1	18.46	114.32	Open To Flow (1)
31	21.88	115.57	Shut-In(1)
77	876.22	117.23	End Shut-In(1)
77	25.78	117.00	Open To Flow (2)
104	33.11	118.28	Shut-In(2)
159	614.41	119.10	End Shut-In(2)
160	2289.12	119.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m (Oil spots)	0.35

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bickle Energies, LLC

26-12s-33w Logan,KS

PO Box 816
Hays, KS 67601

Shallow River #1A

Job Ticket: 65555

DST#: 3

ATTN: Eli Felts

Test Start: 2016.09.01 @ 15:33:00

Tool Information

Drill Pipe:	Length: 4566.00 ft	Diameter: 3.80 inches	Volume: 64.05 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4580.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 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			4554.00	
Shut In Tool	5.00			4559.00	
Hydraulic tool	5.00			4564.00	
Jars	5.00			4569.00	
Safety Joint	2.00			4571.00	
Packer	5.00			4576.00	27.00 Bottom Of Top Packer
Packer	4.00			4580.00	
Stubb	1.00			4581.00	
Recorder	0.00	8365	Inside	4581.00	
Recorder	0.00	8845	Outside	4581.00	
Perforations	19.00			4600.00	
Change Over Sub	1.00			4601.00	
Drill Pipe	31.00			4632.00	
Change Over Sub	1.00			4633.00	
Bullnose	3.00			4636.00	56.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energies, LLC

26-12s-33w Logan,KS

PO Box 816
Hays, KS 67601

Shallow River #1A

Job Ticket: 65555

DST#: 3

ATTN: Eli Felts

Test Start: 2016.09.01 @ 15:33:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud 100m (Oil spots)	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

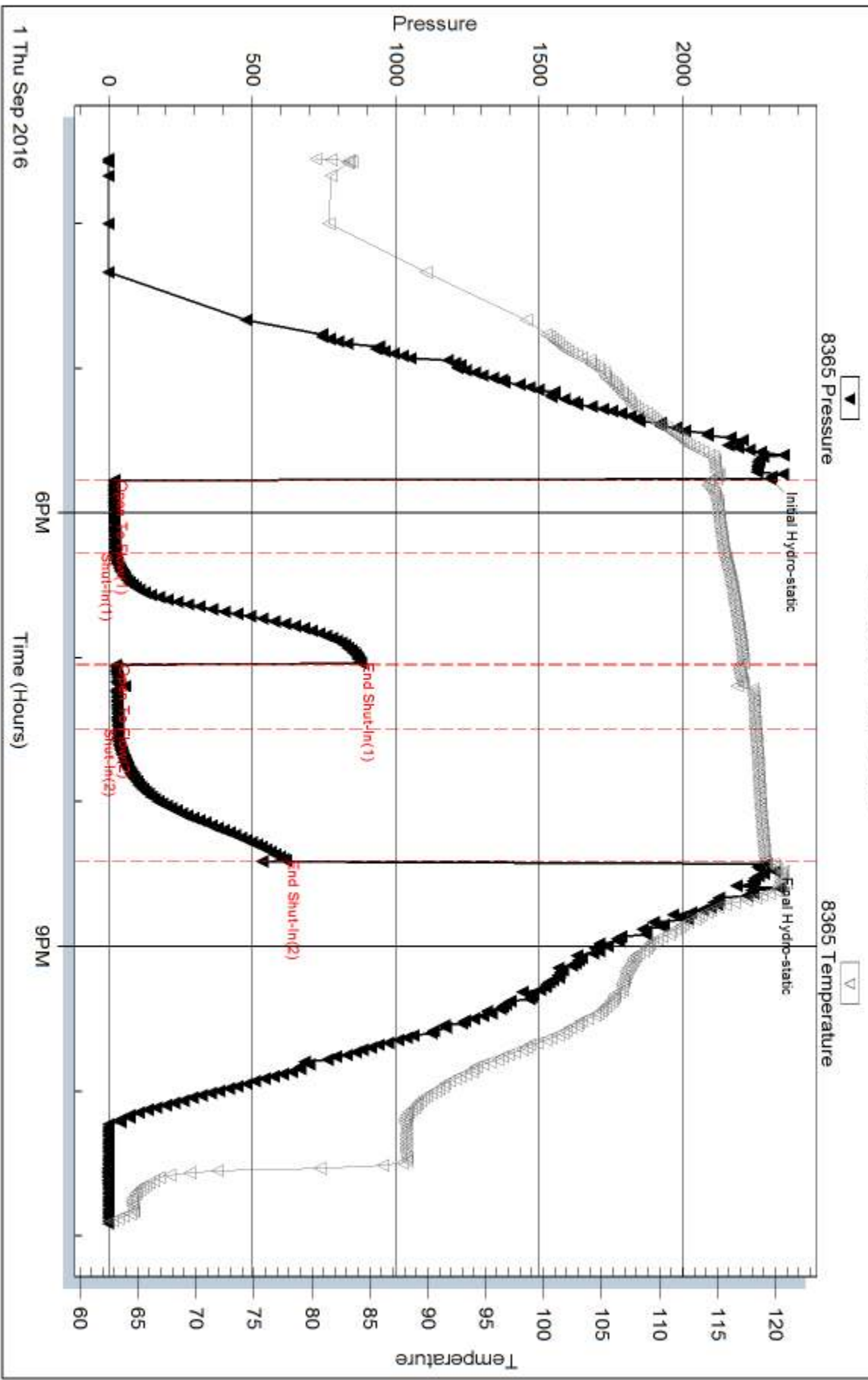
Inside

Bickle Energies, LLC

Shallow River #1A

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 65555

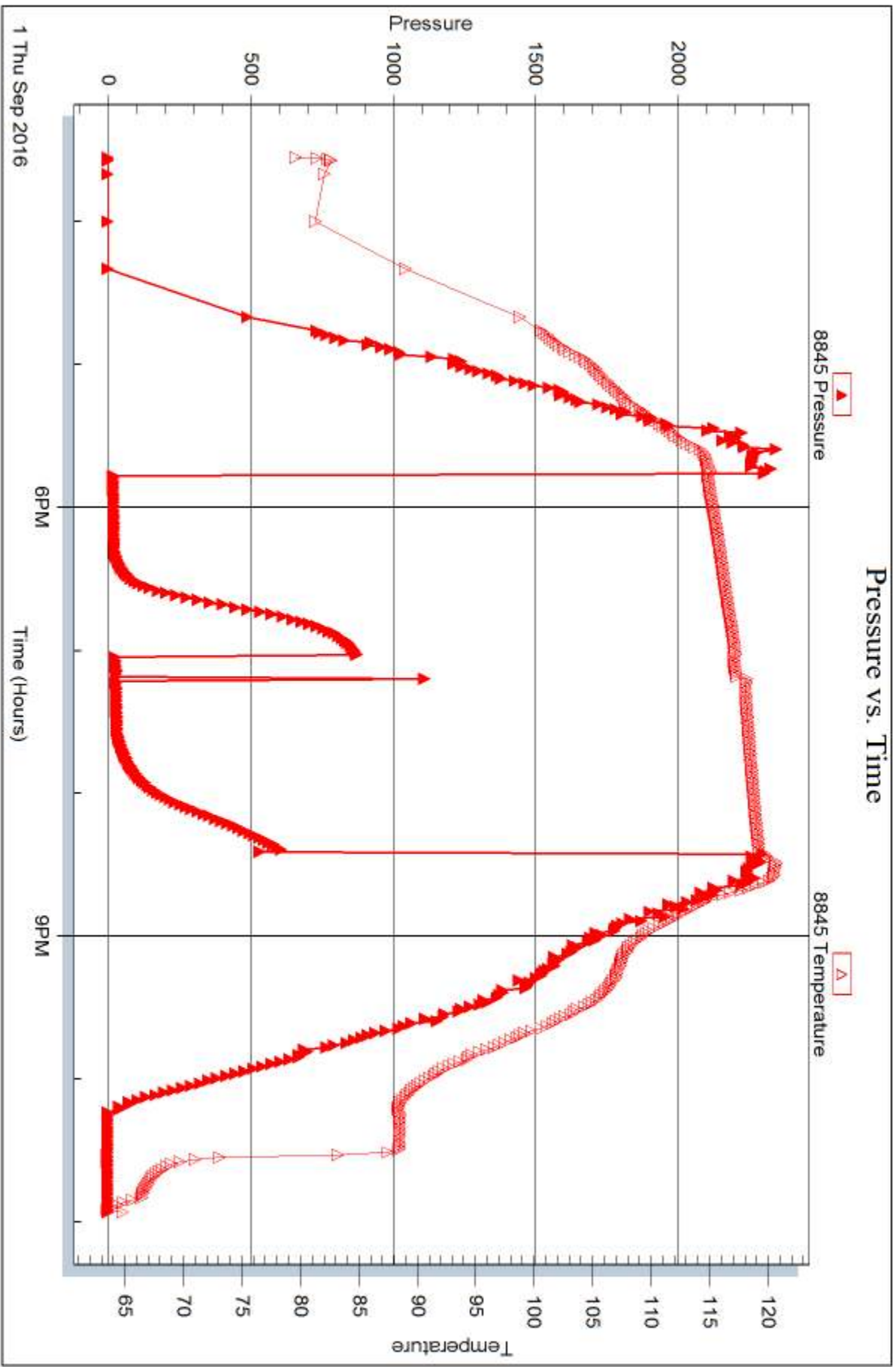
Printed: 2016.09.06 @ 13:41:14

Serial #: 8845

Outside Bickie Energies, LLC

Shallow River #1A

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65553**

Well Name & No. Shallow River 1A Test No. 1 Date 8/29/2016
 Company Buckle Energies, LLC Elevation 3093 KB 3081 GL
 Address PO Box 816 Hays KS 67601
 Co. Rep / Geo. ELI Felts Rig Southwind #1
 Location: Sec. 26 Twp. 12S Rge. 33W Co. Logan State Ks

Interval Tested 4262-4288 Zone Tested LKC J
 Anchor Length 26' Drill Pipe Run 4250 Mud Wt. 9.3
 Top Packer Depth 4257 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 4262 Wt. Pipe Run 0 WL 80
 Total Depth 4288 Chlorides 2200 ppm System LCM 1#
 Blow Description IF Surface blow, died @ 17 min.
ISI No return
FF No blow
FSI No return

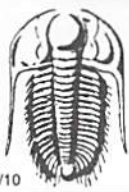
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud OIL spots</u>			<u>100</u>	
	<u>OIL Puddle outtop</u>				

Rec Total 15 BHT 118 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2124</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1500</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1624</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1952</u>
(D) Initial Shut-In <u>759</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/2</u>	T-Pulled <u>2222</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0033 8/30</u>
(F) Second Final Flow <u>21</u>	<input type="checkbox"/> Mileage <u>89RT 66.75</u>	Comments
(G) Final Shut-In <u>142</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2109</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</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>45</u>	<input type="checkbox"/> Day Standby	Total <u>1541.75</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1541.75</u>	

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. **65554**

Well Name & No. Shallow River 1A Test No. 2 Date 8/31/16
 Company Buckle Energies, LLC Elevation 3093 KB 3081 GL
 Address PO Box 816 Hays Ks 67601
 Co. Rep / Geo. ELI Felts Rig Southwind 1
 Location: Sec. 26 Twp. 12s Rge. 3BW Co. Logan State Ks

Interval Tested 4470 - 4552 Zone Tested Pawnee - Cherokee
 Anchor Length 82' Drill Pipe Run 4470 Mud Wt. 9.3
 Top Packer Depth 4465 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 4470 Wt. Pipe Run 0 WL 9.2
 Total Depth 4552 Chlorides 3500 ppm System LCM 1#
 Blow Description IF: Surface blow died @ 10 min.
ISI: No return.
FF: No blow Flashed fool no help.
FSI: No return.

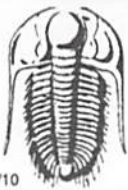
Rec	Feet of	%gas	%oil	%water	%mud
<u>S</u>	<u>MUD</u>			<u>100</u>	
	<u>OIL spots in tool</u>				
Rec Total <u>S</u>	BHT <u>119</u>	Gravity <u>—</u>	API RW <u>—</u>	@ <u>—</u> °F	Chlorides <u>—</u> ppm

(A) Initial Hydrostatic 2280 Test 1150 T-On Location 1530
 (B) First Initial Flow 21 Jars 250 T-Started 2033 1718
 (C) First Final Flow 44 Safety Joint 75 T-Open 2033
 (D) Initial Shut-In 426 Circ Sub NU T-Pulled 2303
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 0128 9/31
 (F) Second Final Flow 22 Mileage 89 66.75
 (G) Final Shut-In 205 Sampler _____
 (H) Final Hydrostatic 2155 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby Reg 1.5d 3h
 Accessibility _____
 Sub Total 1541.75

Ruined Shale Packer _____
 Ruined Packer 320
 Extra Copies _____
 Sub Total 100 + 320
 Total 1861.75
 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. **65555**

Well Name & No. Shallow River 1A Test No. 3 Date 9/01/2016
 Company Bickle Energies, LLC Elevation 3093 KB 3081 GL
 Address PO Box 816 Hays, Ks 67601
 Co. Rep / Geo. Eli Felts Rig Southwind 1
 Location: Sec. 26 Twp. 12 S Rge. 33 W Co. Logan State KS

Interval Tested 4580 - 4636 Zone Tested Johnson
 Anchor Length 56' Drill Pipe Run 4500 Mud Wt. 9.3
 Top Packer Depth 4575 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4580 Wt. Pipe Run 0 WL 9.2
 Total Depth 4636 Chlorides 2800 ppm System LCM 1#

Blow Description IF: Surface blow
ISJ: No return
FF: No blow Flushed tool blow check
FSJ: No return

Rec	Feet of	MUD	OIL SPOTS	%gas	%oil	%water	%mud
<u>25</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 25 BHT 119 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>2302</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1430</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1533</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1743</u>
(D) Initial Shut-In <u>876</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2015</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2255</u>
(F) Second Final Flow <u>33</u>	<input checked="" type="checkbox"/> Mileage <u>89 x 2</u> <u>133.50</u>	Comments <u>put tool</u>
(G) Final Shut-In <u>614</u>	<input type="checkbox"/> Sampler	<u>1900 9/02/2016</u>
(H) Final Hydrostatic <u>2289</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</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>45</u>	<input type="checkbox"/> Day Standby	Total <u>1608.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1608.50</u>	

Approved By _____ Our Representative

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