



DRILL STEM TEST REPORT

Prepared For: **Bickle Energies LLC**

2052 250th Ave
Hays, KS 67601

ATTN: Keaton Jones

Emery #1

11-17s-10w Ellsworth,KS

Start Date: 2014.01.17 @ 01:58:11

End Date: 2014.01.17 @ 10:01:50

Job Ticket #: 54890 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.22 @ 16:13:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bickle Energies LLC

11-17s-10w Ellsworth,KS

2052 250th Ave
Hays, KS 67601

Emery #1

Job Ticket: 54890

DST#: 1

ATTN: Keaton Jones

Test Start: 2014.01.17 @ 01:58:11

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:06:01

Time Test Ended: 10:01:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 68

Interval: 3019.00 ft (KB) To 3031.00 ft (KB) (TVD)

Reference Elevations: 1806.00 ft (KB)

Total Depth: 3031.00 ft (KB) (TVD)

1799.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8647

Inside

Press@RunDepth: 187.76 psig @ 3020.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.17

End Date:

2014.01.17

Last Calib.:

2014.01.17

Start Time: 01:58:16

End Time:

10:01:51

Time On Btm:

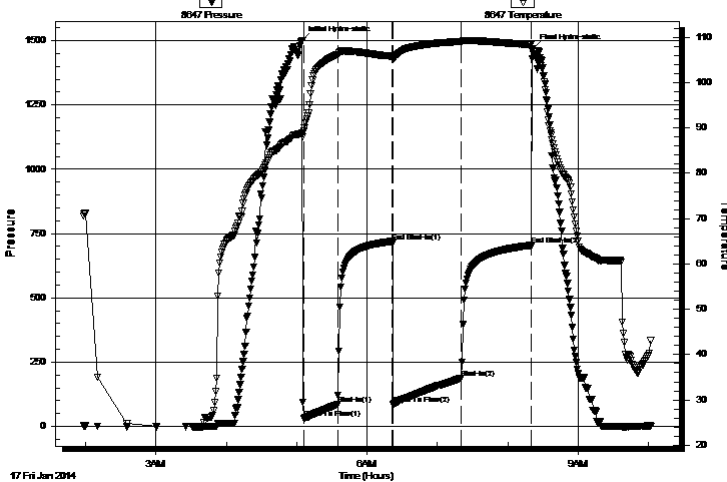
2014.01.17 @ 05:04:41

Time Off Btm:

2014.01.17 @ 08:21:11

TEST COMMENT: 30- IF- BOB 30 secs
45- IS- Built to 3 1/2"
60- FF- BOB 10 secs
60 FS- BOB 6 mins

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1501.25	89.01	Initial Hydro-static
2	31.63	89.37	Open To Flow (1)
30	85.49	106.22	Shut-In(1)
77	718.81	105.79	End Shut-In(1)
78	87.25	105.45	Open To Flow (2)
136	187.76	109.09	Shut-In(2)
196	704.26	108.40	End Shut-In(2)
197	1468.73	106.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MCO, 55%O	0.89
125.00	GSWSMCO, 60%G 35%O 5%M 5%W	1.71
220.00	W	3.01
0.00	2550' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bickle Energies LLC

11-17s-10w Ellsworth,KS

2052 250th Ave
Hays, KS 67601

Emery #1

Job Ticket: 54890

DST#: 1

ATTN: Keaton Jones

Test Start: 2014.01.17 @ 01:58:11

Tool Information

Drill Pipe:	Length: 3004.00 ft	Diameter: 3.75 inches	Volume: 41.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - 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: 48000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3019.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	39.00 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			2993.00	
Shut In Tool	5.00			2998.00	
Hydraulic tool	5.00			3003.00	
Jars	5.00			3008.00	
Safety Joint	2.00			3010.00	
Packer	5.00			3015.00	27.00 Bottom Of Top Packer
Packer	4.00			3019.00	
Stubb	1.00			3020.00	
Recorder	0.00	8647	Inside	3020.00	
Recorder	0.00	8372	Outside	3020.00	
Perforations	8.00			3028.00	
Bullnose	3.00			3031.00	12.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energies LLC

11-17s-10w Ellsworth,KS

2052 250th Ave
Hays, KS 67601

Emery #1

Job Ticket: 54890

DST#: 1

ATTN: Keaton Jones

Test Start: 2014.01.17 @ 01:58:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

13500 ppm

Viscosity: 77.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
65.00	MCO, 55%O	0.888
125.00	GSWSMCO, 60%G 35%O 5%M 5%W	1.708
220.00	W	3.005
0.00	2550' GIP	0.000

Total Length: 410.00 ft

Total Volume: 5.601 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

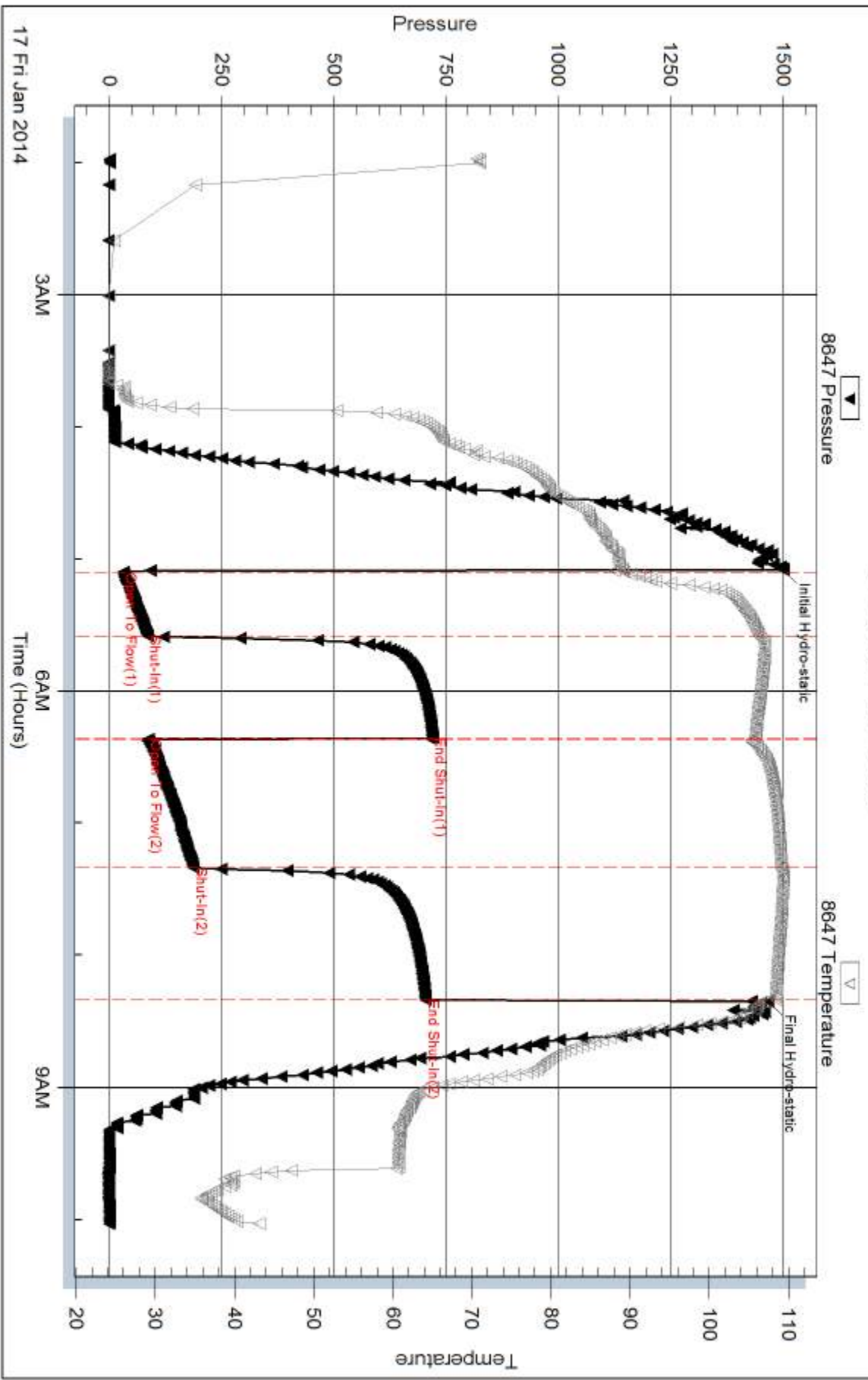
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

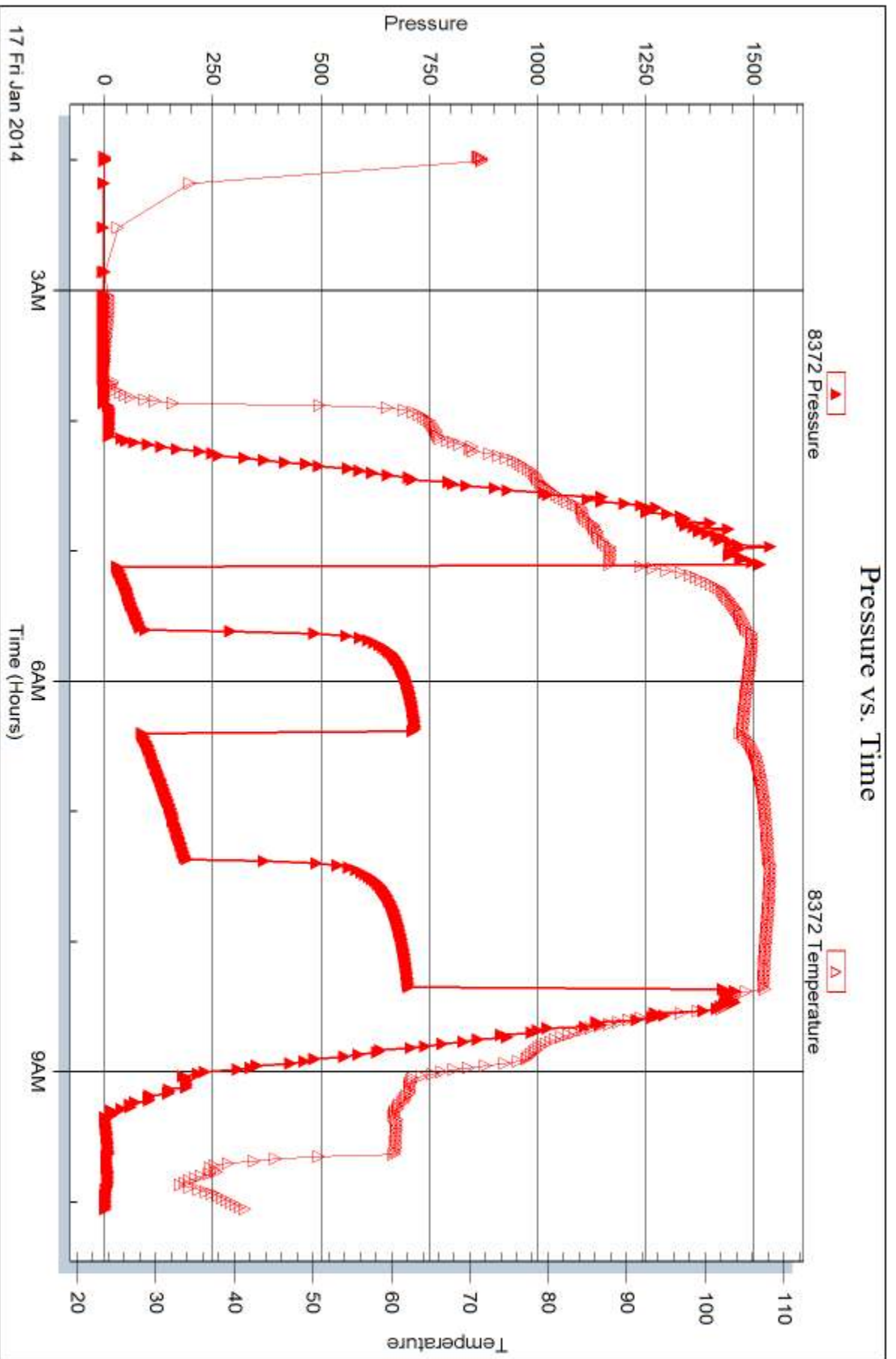


Serial #: 8372

Outside Bickie Energies LLC

Energy #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 54890

Printed: 2014.01.22 @ 16:13:20



DRILL STEM TEST REPORT

Prepared For: **Bickle Energies LLC**

2052 250th Ave
Hays, KS 67601

ATTN: Keaton Jones

Emery #1

11-17s-10w Ellsworth,KS

Start Date: 2014.01.18 @ 05:52:44

End Date: 2014.01.18 @ 13:58:04

Job Ticket #: 54891 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.22 @ 16:12:53



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bickle Energies LLC

11-17s-10w Ellsworth,KS

2052 250th Ave
Hays, KS 67601

Emery #1

Job Ticket: 54891

DST#: 2

ATTN: Keaton Jones

Test Start: 2014.01.18 @ 05:52:44

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:11:24

Time Test Ended: 13:58:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 68

Interval: 3255.00 ft (KB) To 3267.00 ft (KB) (TVD)

Reference Elevations: 1806.00 ft (KB)

Total Depth: 3267.00 ft (KB) (TVD)

1799.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8647

Inside

Press@RunDepth: 37.43 psig @ 3256.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.18

End Date:

2014.01.18

Last Calib.:

2014.01.18

Start Time: 05:52:49

End Time:

13:58:04

Time On Btm:

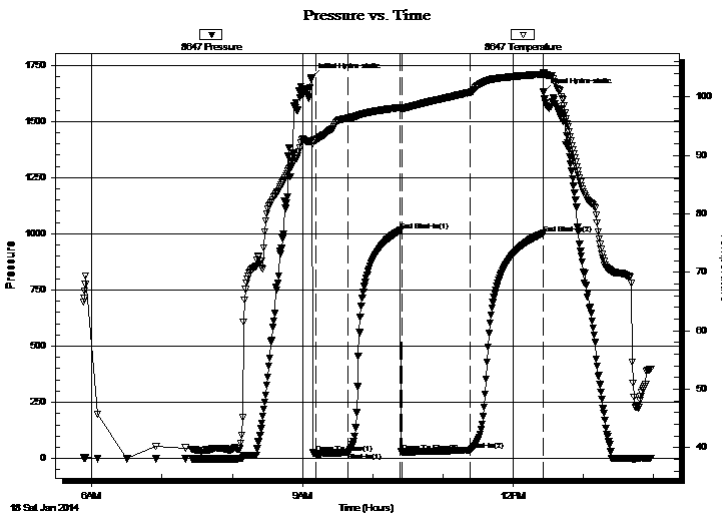
2014.01.18 @ 09:07:34

Time Off Btm:

2014.01.18 @ 12:26:23

TEST COMMENT: 30- IF- Slow ly built to 3 1/2"
45- IS- Very weak surface blow
60- FF- Slow ly built to 4 1/2"
60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1692.56	92.49	Initial Hydro-static
4	21.47	92.62	Open To Flow (1)
32	27.38	96.36	Shut-In(1)
77	1014.86	98.20	End Shut-In(1)
78	29.49	97.98	Open To Flow (2)
137	37.43	100.79	Shut-In(2)
199	1001.31	103.86	End Shut-In(2)
199	1629.78	104.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	O	0.07
45.00	MCO, 55%O	0.61
0.00	15' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bickle Energies LLC

11-17s-10w Ellsworth,KS

2052 250th Ave
Hays, KS 67601

Emery #1

Job Ticket: 54891

DST#: 2

ATTN: Keaton Jones

Test Start: 2014.01.18 @ 05:52:44

Tool Information

Drill Pipe:	Length: 3256.00 ft	Diameter: 3.75 inches	Volume: 44.48 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - 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:	47000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3255.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	39.00 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			3229.00	
Shut In Tool	5.00			3234.00	
Hydraulic tool	5.00			3239.00	
Jars	5.00			3244.00	
Safety Joint	2.00			3246.00	
Packer	5.00			3251.00	27.00 Bottom Of Top Packer
Packer	4.00			3255.00	
Stubb	1.00			3256.00	
Recorder	0.00	8647	Inside	3256.00	
Recorder	0.00	8372	Outside	3256.00	
Perforations	8.00			3264.00	
Bullnose	3.00			3267.00	12.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energies LLC

11-17s-10w Ellsworth,KS

2052 250th Ave
Hays, KS 67601

Emery #1

Job Ticket: 54891

DST#: 2

ATTN: Keaton Jones

Test Start: 2014.01.18 @ 05:52:44

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	O	0.068
45.00	MCO, 55%O	0.615
0.00	15' GIP	0.000

Total Length: 50.00 ft Total Volume: 0.683 bbl

Num Fluid Samples: 0

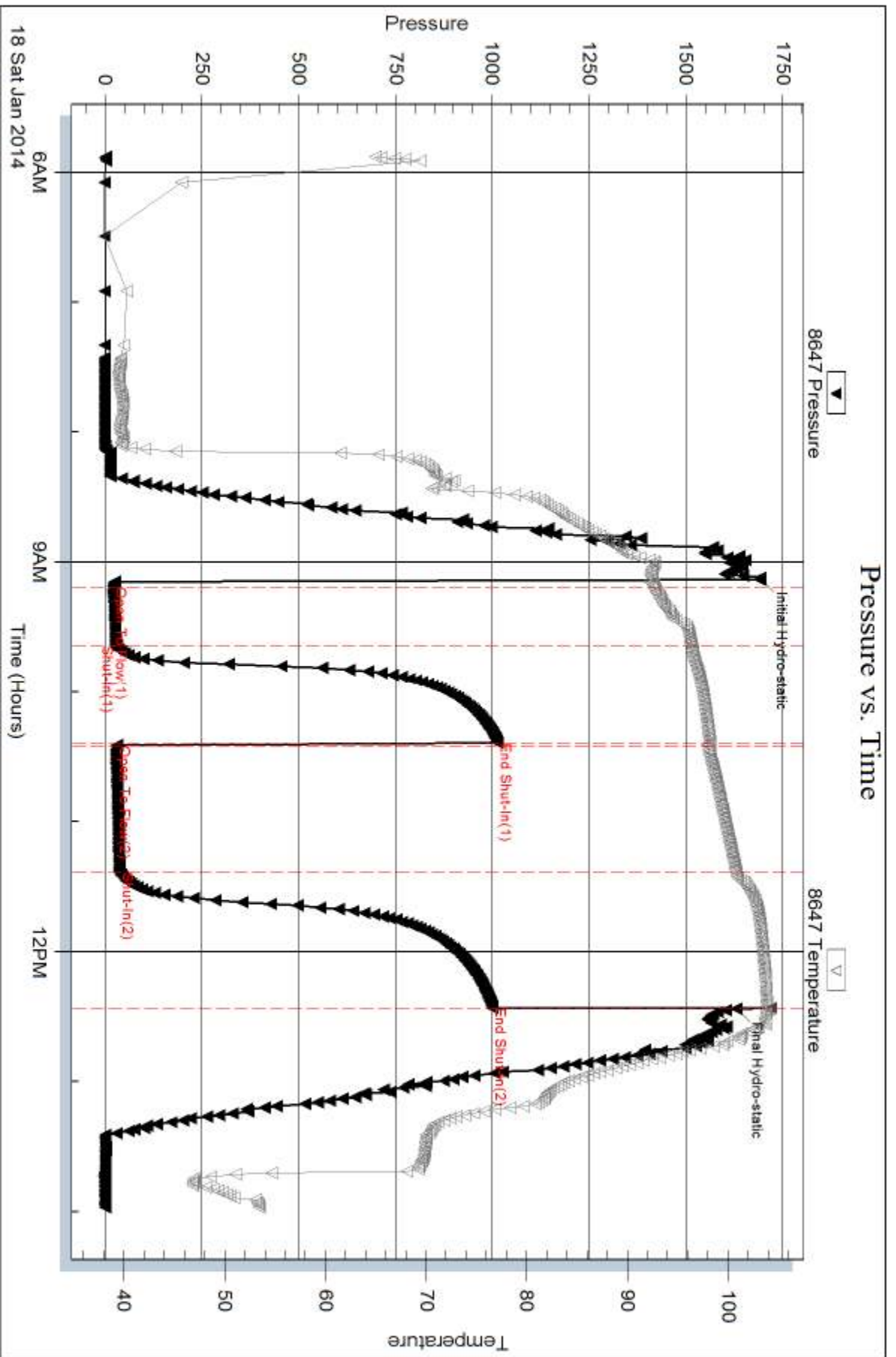
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

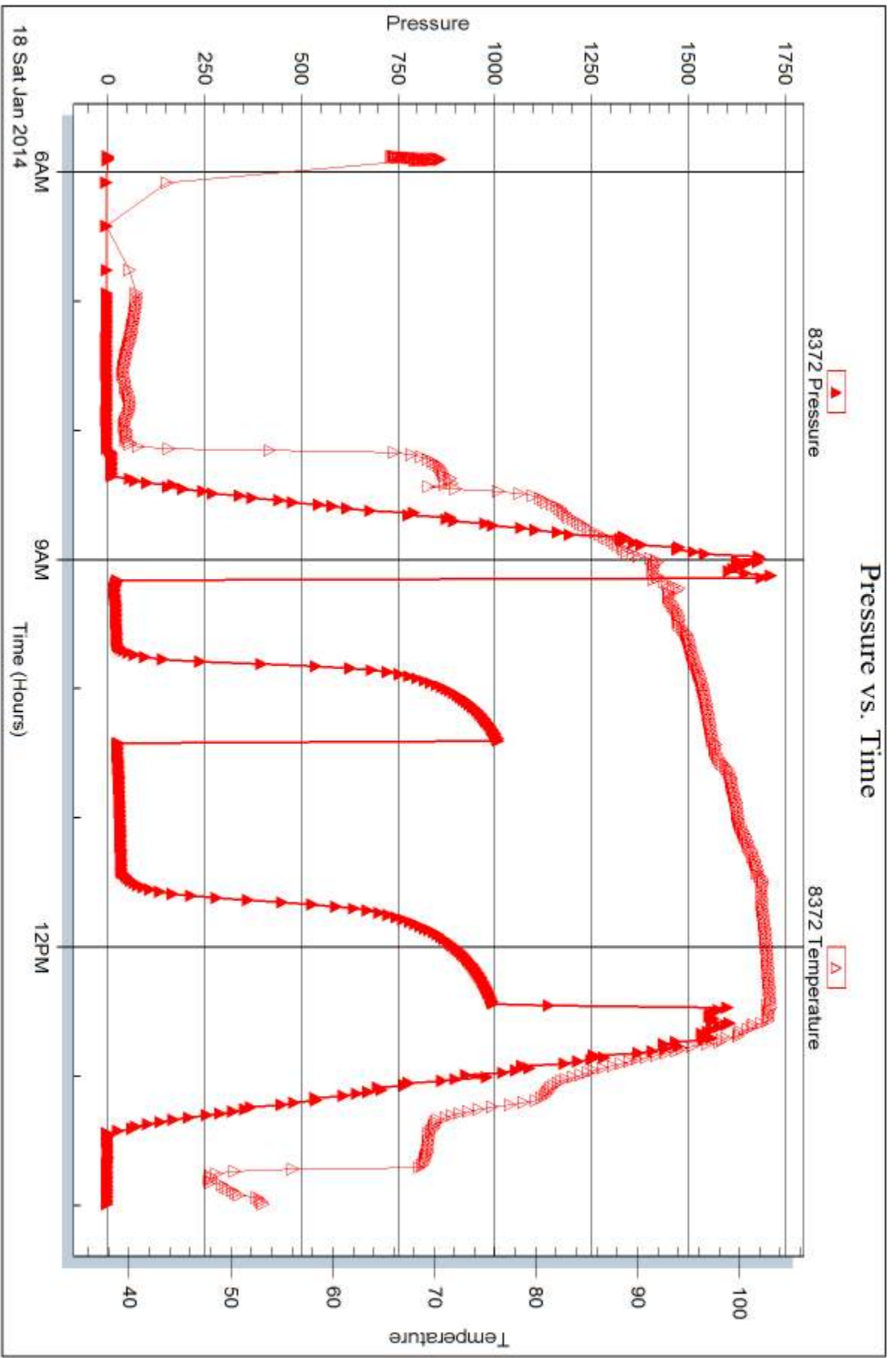


Serial #: 8372

Outside Bickle Energies LLC

Energy #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54891

Printed: 2014.01.22 @ 16:12:55



DRILL STEM TEST REPORT

Prepared For: **Bickle Energies LLC**

2052 250th Ave
Hays, KS 67601

ATTN: Keaton Jones

Emery #1

11-17s-10w Ellsworth,KS

Start Date: 2106.02.06 @ 06:28:15

End Date: 2106.02.06 @ 13:18:45

Job Ticket #: 54892 DST #: 3

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

Printed: 2014.01.22 @ 16:01:15

Bickle Energies LLC
11-17s-10w Ellsworth,KS
Emery #1
DST # 3
Arbuckle
2106.02.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bickle Energies LLC

11-17s-10w Ellsworth,KS

2052 250th Ave
Hays, KS 67601

Emery #1

Job Ticket: 54892

DST#: 3

ATTN: Keaton Jones

Test Start: 2106.02.06 @ 06:28:15

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:15:15

Time Test Ended: 13:18:45

Test Type: Conventional Straddle (Reset)

Tester: Brannan L

Unit No: 68

Interval: 3271.00 ft (KB) To 3283.00 ft (KB) (TVD)

Reference Elevations: 1806.00 ft (KB)

Total Depth: 3299.00 ft (KB) (TVD)

1799.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8372 Inside

Press@RunDepth: 121.25 psig @ 3279.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.18

End Date:

2014.01.19

Last Calib.:

2014.01.19

Start Time: 21:20:16

End Time:

04:10:45

Time On Btm:

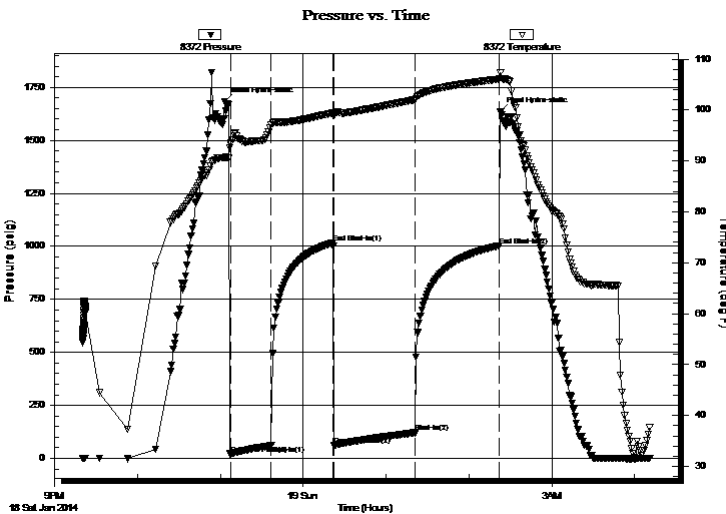
2014.01.18 @ 23:03:15

Time Off Btm:

2014.01.19 @ 02:22:45

TEST COMMENT: 30- IF- BOB 21mins
45- IS- Very weak surface blow that died
60- FF- BOB 29 mins
60- FS- Surface blow that died

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.72	90.63	Initial Hydro-static
4	21.41	93.43	Open To Flow (1)
34	60.40	97.10	Shut-In(1)
78	1016.31	99.41	End Shut-In(1)
79	63.00	99.08	Open To Flow (2)
138	121.25	102.04	Shut-In(2)
199	1003.50	106.05	End Shut-In(2)
200	1634.98	107.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
235.00	MW, 85%W	3.21

* 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

11-17s-10w Ellsworth,KS

2052 250th Ave
Hays, KS 67601

Emery #1

Job Ticket: 54892

DST#: 3

ATTN: Keaton Jones

Test Start: 2106.02.06 @ 06:28:15

Tool Information

Drill Pipe:	Length: 3256.00 ft	Diameter: 3.75 inches	Volume: 44.48 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - 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:	50000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3271.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	3283.00 ft				
Interval between Packers:	12.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3245.00	
Shut In Tool	5.00			3250.00	
Hydraulic tool	5.00			3255.00	
Jars	5.00			3260.00	
Safety Joint	2.00			3262.00	
Packer	5.00			3267.00	27.00 Bottom Of Top Packer
Packer	4.00			3271.00	
Stubb	1.00			3272.00	
Perforations	7.00			3279.00	
Recorder	0.00	8372	Inside	3279.00	
Recorder	0.00	8647	Outside	3279.00	
Blank Off Sub	1.00			3280.00	
Blank Spacing	3.00			3283.00	12.00 Tool Interval
Packer	1.00			3284.00	
Stubb	1.00			3285.00	
Recorder	0.00	8321	Below	3285.00	
Perforations	11.00			3296.00	
Bullnose	3.00			3299.00	16.00 Bottom Packers & Anchor

Total Tool Length: 55.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energies LLC

11-17s-10w Ellsworth,KS

2052 250th Ave
Hays, KS 67601

Emery #1

Job Ticket: 54892

DST#: 3

ATTN: Keaton Jones

Test Start: 2106.02.06 @ 06:28:15

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:

4950 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
235.00	MW, 85%W	3.210

Total Length: 235.00 ft Total Volume: 3.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

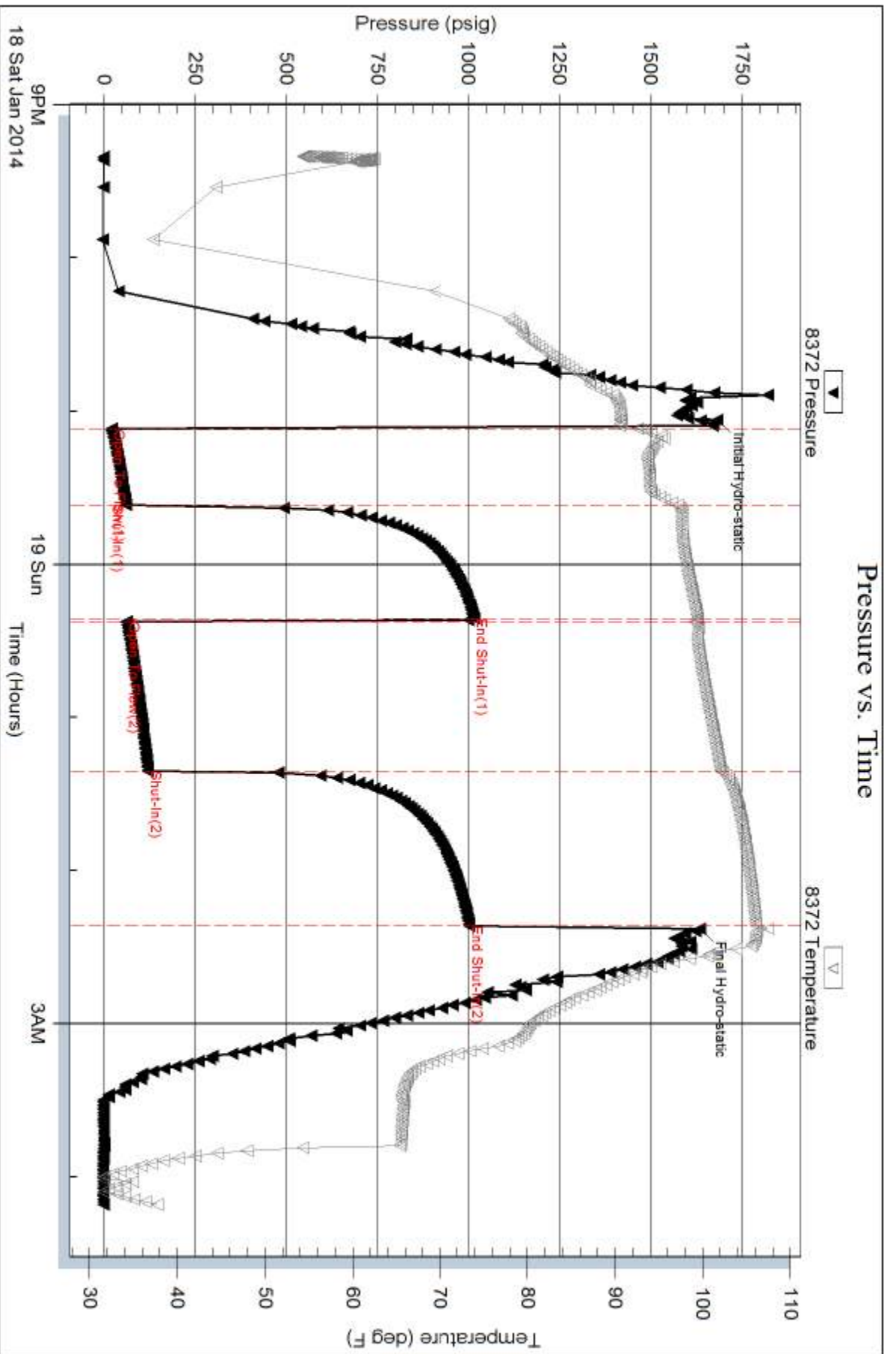
Serial #: 8372

Inside

Bickle Energies LLC

Energy #1

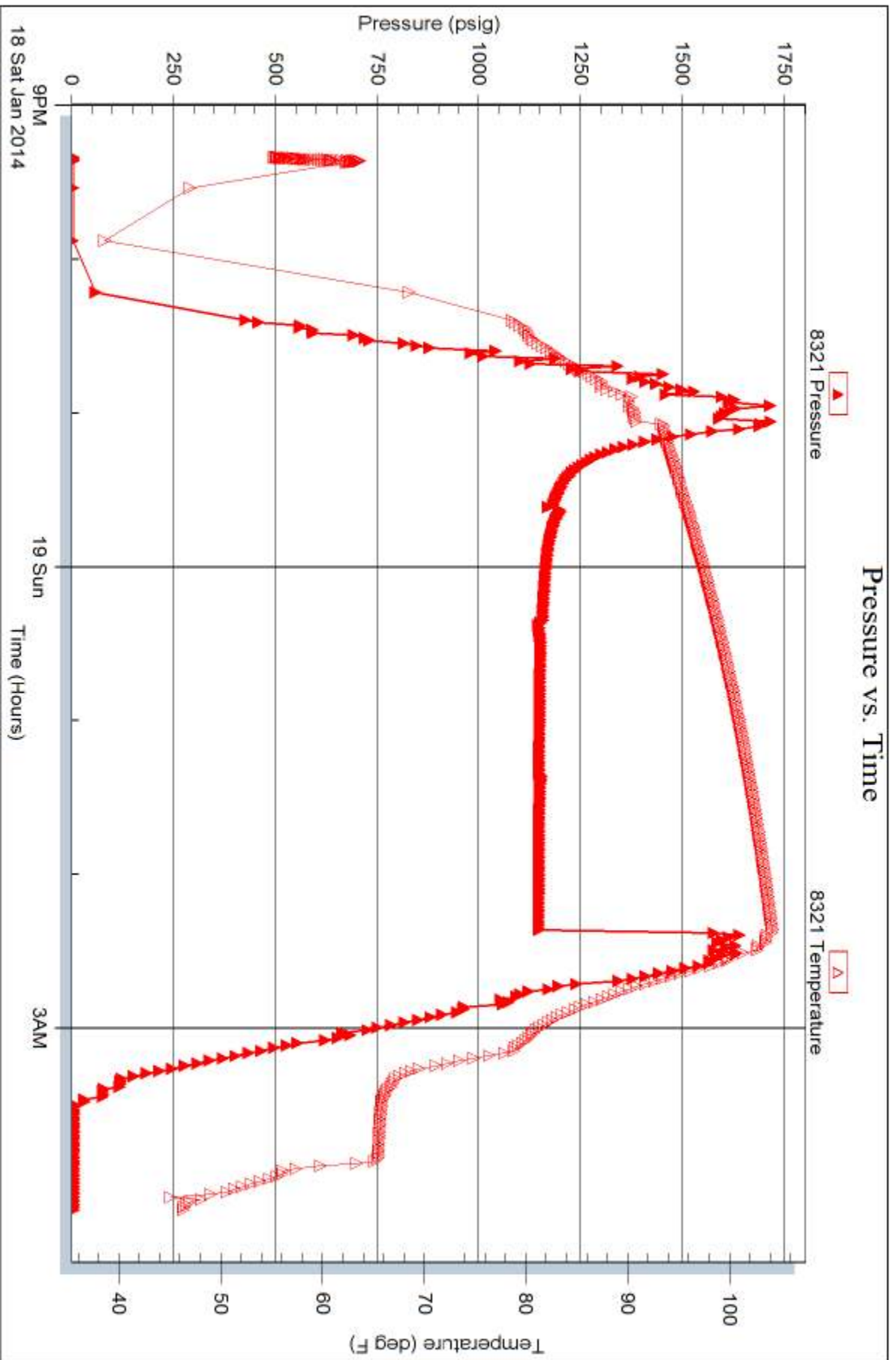
DST Test Number: 3

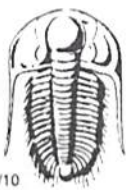


Triobite Testing, Inc

Ref. No: 54892

Printed: 2014.01.22 @ 16:01:17





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54890

Well Name & No. Emery #1 Test No. 1 Date 1/17/14
 Company Bickle Energies LLC Elevation 1806 KB 1799 GL
 Address 2052 250th Ave Hays, KS 67601
 Co. Rep / Geo. Keaton Jones Rig Royal 2
 Location: Sec. 11 Twp. 17s Rge. 10w Co. Ellsworth State KS

Interval Tested 3019-3031 Zone Tested Lansing
 Anchor Length 12' Drill Pipe Run 3004 Mud Wt. 8.5
 Top Packer Depth 3014 Drill Collars Run ———— Vis 77
 Bottom Packer Depth 3019 Wt. Pipe Run ———— WL 7.2
 Total Depth 3031 Chlorides 2,600 ppm System LCM 1 1/2 #

Blow Description IF-BOB 30secs
ISI-Built to 3 1/2"
FF-BOB 10secs
FSI-BOB 6mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>MCO</u>		<u>55%</u>		<u>45%</u>
<u>125</u>	<u>GSWSMCO</u>	<u>60%</u>	<u>35%</u>	<u>5%</u>	<u>5%</u>
<u>220</u>	<u>W</u>			<u>100%</u>	
	<u>2550' GIP</u>				

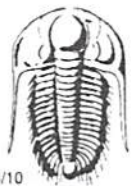
Rec Total 410' BHT 108° Gravity ———— API RW .14 @ 25° F Chlorides 13,500 ppm

(A) Initial Hydrostatic <u>1501</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0142</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0158</u>
(C) First Final Flow <u>85</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0506</u>
(D) Initial Shut-In <u>719</u>	<input type="checkbox"/> Circ Sub <u>————</u>	T-Pulled <u>0821</u>
(E) Second Initial Flow <u>87</u>	<input type="checkbox"/> Hourly Standby <u>————</u>	T-Out <u>1003</u>
(F) Second Final Flow <u>188</u>	<input checked="" type="checkbox"/> Mileage <u>138 RT</u> 213.90	Comments <u>————</u>
(G) Final Shut-In <u>704</u>	<input type="checkbox"/> Sampler <u>————</u>	
(H) Final Hydrostatic <u>1469</u>	<input type="checkbox"/> Straddle <u>————</u>	<input type="checkbox"/> Ruined Shale Packer <u>————</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>————</u>	<input type="checkbox"/> Ruined Packer <u>————</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>————</u>	<input type="checkbox"/> Extra Copies <u>————</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder <u>————</u>	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>————</u>	Total <u>1688.90</u>
	<input type="checkbox"/> Accessibility <u>————</u>	MP/DST Disc't <u>————</u>

Sub Total 1688.90

Approved By ———— Our Representative Brannan L

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. 54891

Well Name & No. Emery #1 Test No. 2 Date 1/18/14
 Company Buckle Energies LLC Elevation 1806 KB 1799 GL
 Address 2052 250th Ave. Hays, KS 67601
 Co. Rep / Geo. Keaton Jones Rig Royal 2
 Location: Sec. 11 Twp. 17s Rge. 10w Co. Ellsworth State KS

Interval Tested 3255-3267 Zone Tested Arbuckle
 Anchor Length 12' Drill Pipe Run 3256 Mud Wt. 9.2
 Top Packer Depth 3250 Drill Collars Run Vis 49
 Bottom Packer Depth 3255 Wt. Pipe Run WL 8.0
 Total Depth 3267 Chlorides 5000 ppm System LCM 1#

Blow Description IF - Slowly built to 3 1/2"
ISI - Very weak surface flow
FF - Slowly built to 4 1/2"
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>0</u>		<u>100%</u>		
<u>45</u>	<u>MCO</u>		<u>55%</u>		<u>15%</u>
<u>48</u>	<u>15' GIP</u>	<u>160%</u>			

Rec Total 50 BHT 104° Gravity API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>1693</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0537</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0553</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0909</u>
(D) Initial Shut-In <u>1015</u>	<input type="checkbox"/> Circ Sub <u> </u>	T-Pulled <u>1224</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>1400</u>
(F) Second Final Flow <u>37</u>	<input checked="" type="checkbox"/> Mileage <u>138 RT</u> 213.90	Comments <u> </u>
(G) Final Shut-In <u>1001</u>	<input type="checkbox"/> Sampler <u> </u>	
(H) Final Hydrostatic <u>1630</u>	<input type="checkbox"/> Straddle <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 60

Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1688.90
 Accessibility MP/DST Disc't

Sub Total 1688.90

Approved By Our Representative Brannon L

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. 54892

Well Name & No. Emery #1 Test No. 3 Date 1/18/14
 Company Bickle Energies LLC Elevation 1806 KB 1799 GL
 Address 2052 250th Ave Hays, KS 67601
 Co. Rep / Geo. Keaton Jones Rig Royal 2
 Location: Sec. 11 Twp. 17s Rge. 10w Co. Ellsworth State KS

Interval Tested 3271-3283 Zone Tested Arbuckle
 Anchor Length 12' Drill Pipe Run 3256 Mud Wt. 9.2
 Top Packer Depth 3266-3271 Drill Collars Run _____ Vis 49
 Bottom Packer Depth 3283 Wt. Pipe Run _____ WL 8.0
 Total Depth 3299 Chlorides 5,000 ppm System LCM 1#

Blow Description IF BOB 21 mins
FSI - Very weak surface flow
FF-BOB 29 mins
FSI Surface flow that dried

Rec	Feet of	%gas	%oil	%water	%mud
<u>235</u>	<u>M/W</u>			<u>85%</u>	<u>15%</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 235' BHT 106 Gravity _____ API RW .38 @ 24 °F Chlorides 4,950 ppm

(A) Initial Hydrostatic <u>1683</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2113</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2120</u>
(C) First Final Flow <u>60</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2303</u>
(D) Initial Shut-In <u>1016</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0218</u>
(E) Second Initial Flow <u>63</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0408</u>
(F) Second Final Flow <u>121</u>	<input checked="" type="checkbox"/> Mileage <u>138 RT</u> 213.90	Comments _____
(G) Final Shut-In <u>1004</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1635</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<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>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>2288.90</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2288.90</u>	

Approved By _____ Our Representative Branman L

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