



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1191528
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1191528

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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QUALITY OILWELL CEMENTING, INC.



Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7688

Date <u>1-19-14</u>	Sec. <u>11</u>	Twp. <u>17</u>	Range <u>10</u>	County <u>Ellsworth</u>	State <u>KS</u>	On Location	Finish <u>2:12 AM</u>
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Location Hollywood, 1/4 E, Nn2

Lease <u>Emery</u>	Well No. <u>1</u>	Owner
Contractor <u>Royal #1</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <u>long string</u>		
Hole Size <u>7 7/8</u>	T.D. <u>3410</u>	Charge To <u>Bickle Energies, LLC</u>
Csg. <u>5 1/2 15.5 #</u>	Depth <u>3409.46</u>	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint <u>14.34</u>	Cement Amount Ordered <u>180sxc, 10% salt, 5% gilsonite,</u>
Meas Line	Displace <u>80.8 bbl</u>	<u>1/4" Flow, Friction Reducer, Gas block</u>

EQUIPMENT		Common <u>180</u>
Pumptrk <u>17</u> No.	Cementor Helper <u>Nick</u>	Poz. Mix
Bulktrk <u>1/1</u> No.	Driver <u>Rick</u>	Gel.
Bulktrk <u>P4</u> No.	Driver <u>Travis</u>	Gelcium <u>CD-110 100 #75#</u>

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt <u>16</u>
<u>1</u> Hole <u>30sx</u>		Flowseal
<u>mouse</u> Hole <u>25sx</u>		Kol-Seal <u>900 #</u>
Centralizers <u>1,3,5,7,9,11</u>		Mud CLR 48 <u>500 gal</u>
Baskets <u>3</u>		CFL-117 or CD110 CAF 38
DN or Port Collar		<u>Sand GAS Block 50#</u>
<u>Pipe on bottom broke circulation. Pumped 500 gal</u>		Handling <u>1.05</u>
<u>Mud CLR 48 with 5 bbl Pw behind it. Plugged Rot</u>		Mileage
<u>hole with 30sx and mouse hole with 25sx</u>		FLOAT EQUIPMENT
<u>hooked to 5 1/2 Mixed 125 sx shut down washed</u>		Guide Shoe
<u>pump and lines. Released plug and displaced with</u>		Centralizer <u>6 Turbo's</u>
<u>80.8 bbl fw. Plug landed and held</u>		Baskets <u>1</u>
<u>lift. pressure 800 psi</u>		AFU Inserts
<u>Plug landed at 1500 psi</u>		Float Shoe <u>1</u>
		Latch Down <u>1</u>

	Pumptrk Charge <u>prod string</u>	Tax
	Mileage <u>38</u>	Discount
		Total Charge

X Signature [Signature]

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7681

Date <i>1-13-14</i>	Sec. <i>11</i>	Twp. <i>17</i>	Range <i>10</i>	County <i>Ellsworth</i>	State <i>KS</i>	On Location	Finish <i>8:15 PM</i>
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Location *Hollyrood Black top E, 1/4 E of Ball Park*

Lease <i>Emery</i>	Well No. <i>1</i>	Owner
Contractor <i>Royal</i>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <i>Surface</i>		
Hole Size <i>12 1/4</i>	T.D. <i>304</i>	Charge To <i>Bickle Energies LLC.</i>
Csg. <i>8 5/8</i>	Depth <i>304.81</i>	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint <i>20</i>	Cement Amount Ordered <i>180 com 3%cc 2%gel</i>

Meas Line	Displace <i>18661</i>	Common <i>180</i>
EQUIPMENT		Poz. Mix
Pumptrk <i>17</i> No.	Cementor Helper <i>NICK</i>	Gel. <i>6</i>
Bulktrk <i>9</i> No.	Driver <i>Lhyd</i>	Calcium <i>3</i>
Bulktrk <i>PU</i> No.	Driver <i>Travis</i>	

JOB SERVICES & REMARKS		Hulls
Remarks: <i>Cement did circulate</i>		Salt
at Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand

Handling <i>189</i>	
Mileage	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	
Mileage <i>Surface @ 38</i>	
X Signature <i>[Signature]</i>	
Tax	
Discount	
Total Charge	



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:

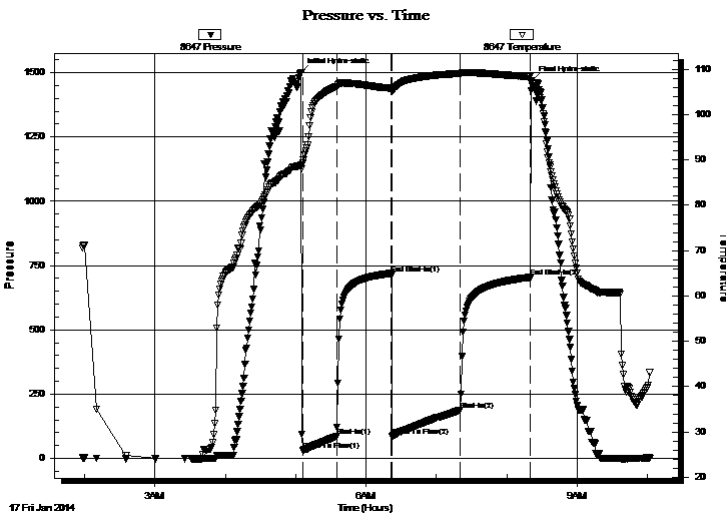
2014.01.17 @ 05:04:41

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 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:

bbbl

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 bbbl
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

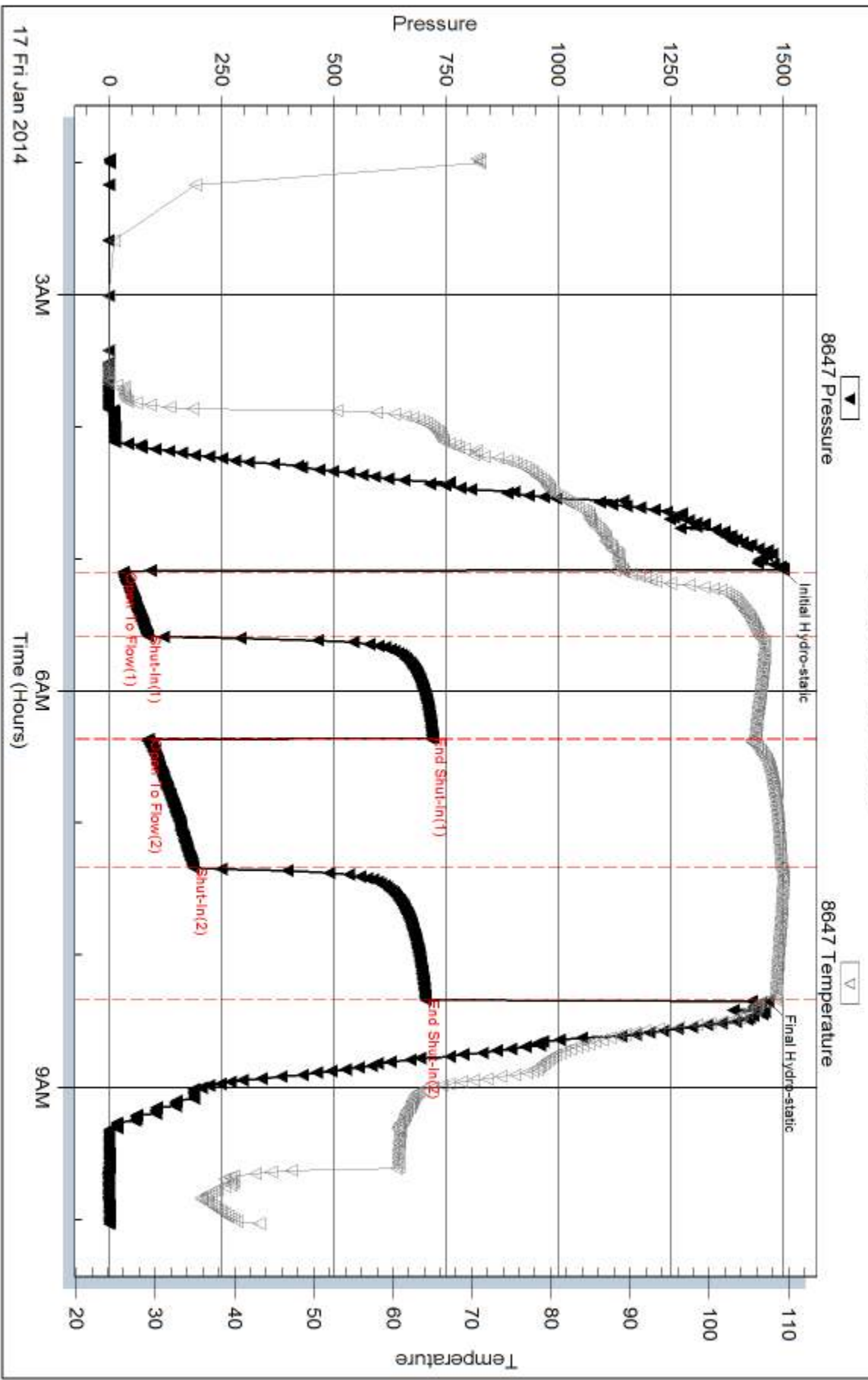
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

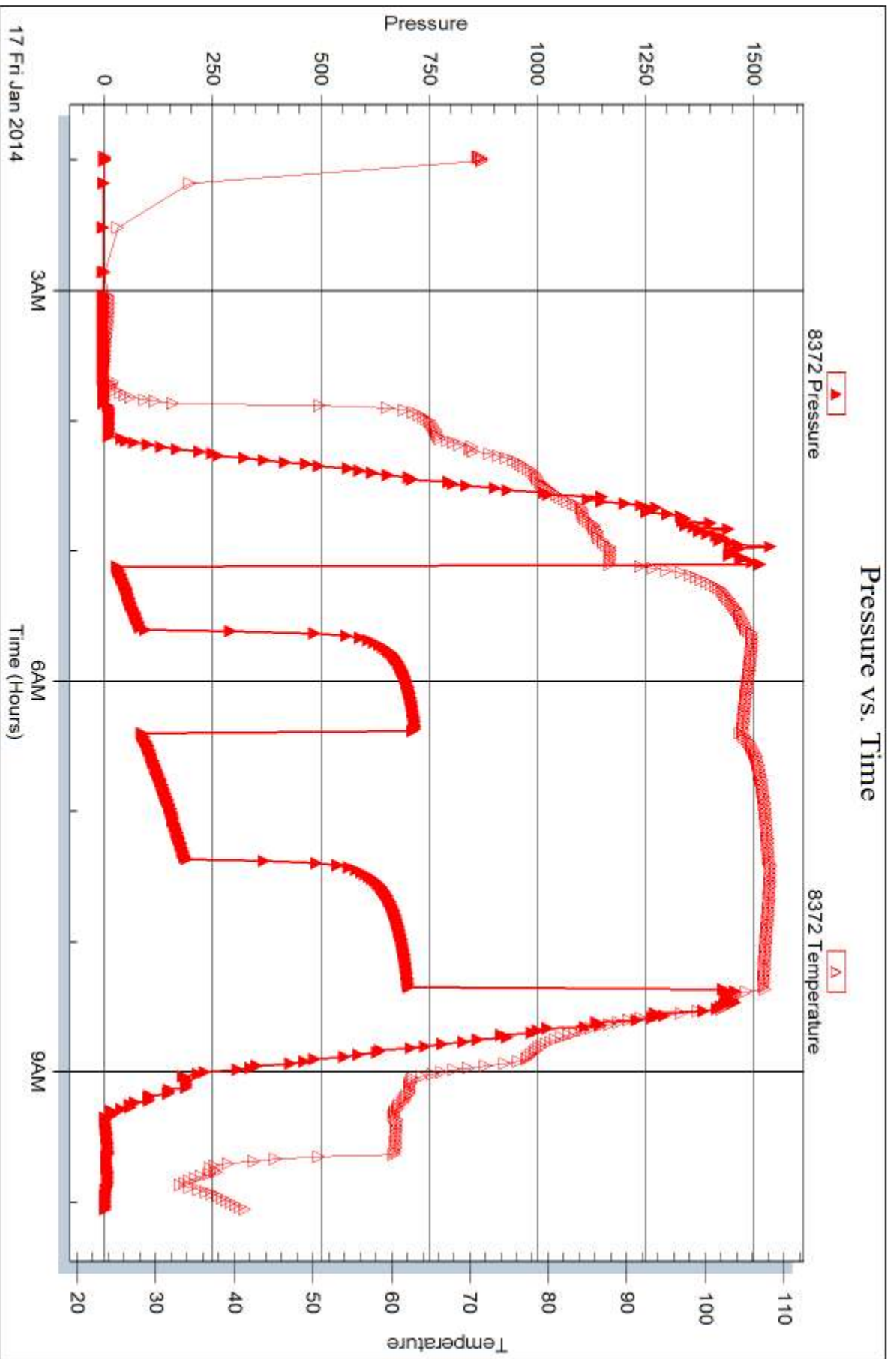


Serial #: 8372

Outside Bickie Energies LLC

Energy #1

DST Test Number: 1





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:

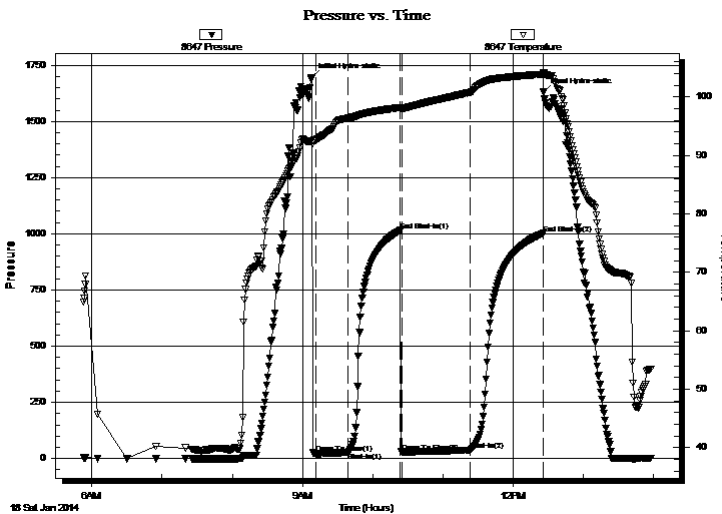
2014.01.18 @ 09:07:34

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- FS- 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
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: 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

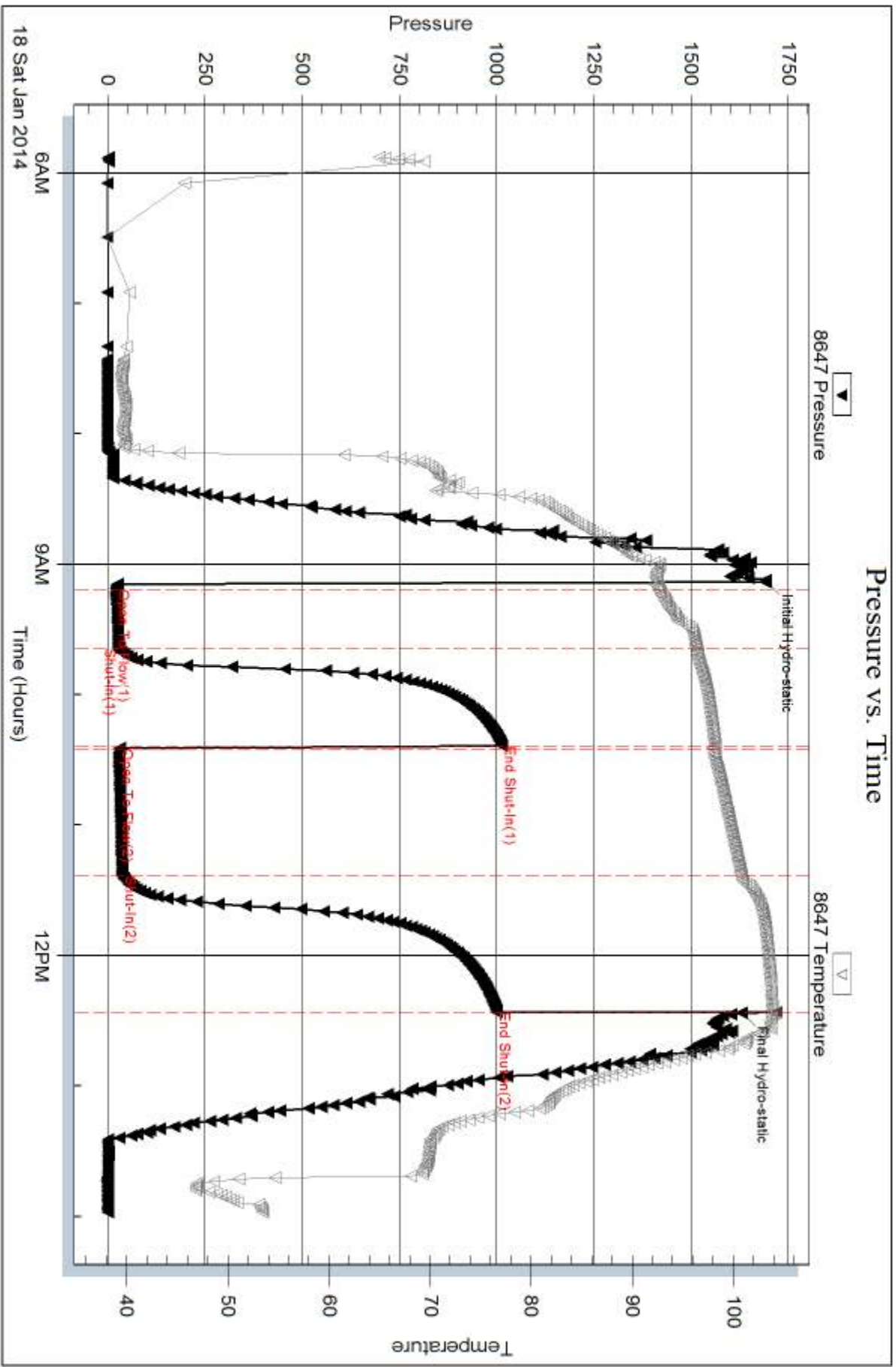
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

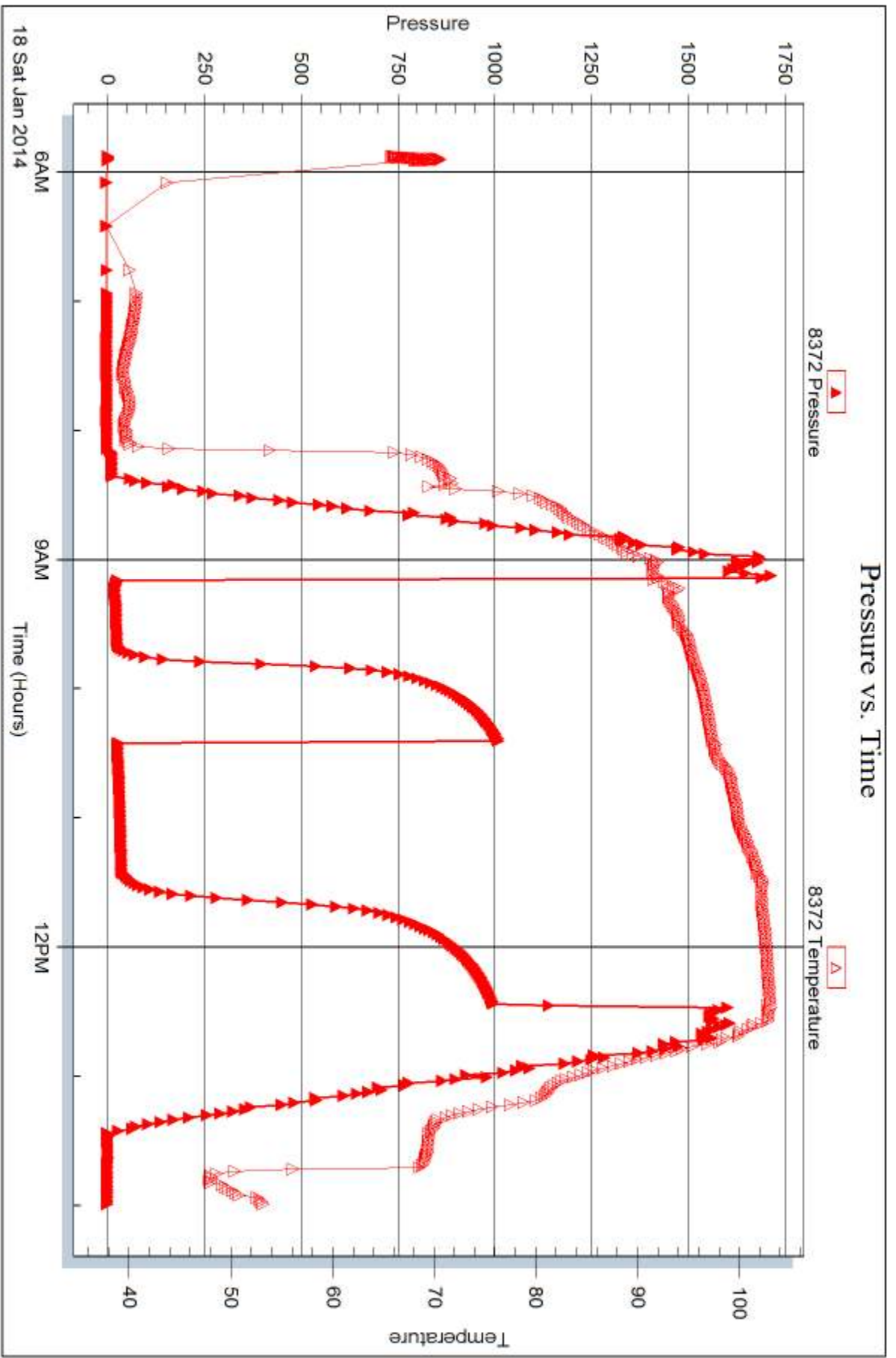


Serial #: 8372

Outside Bickie 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:

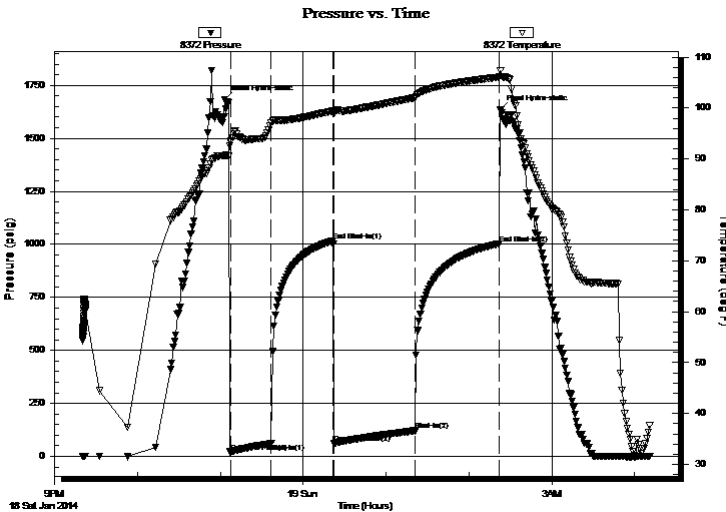
2014.01.18 @ 23:03:15

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: - bbl</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

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



**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: 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:

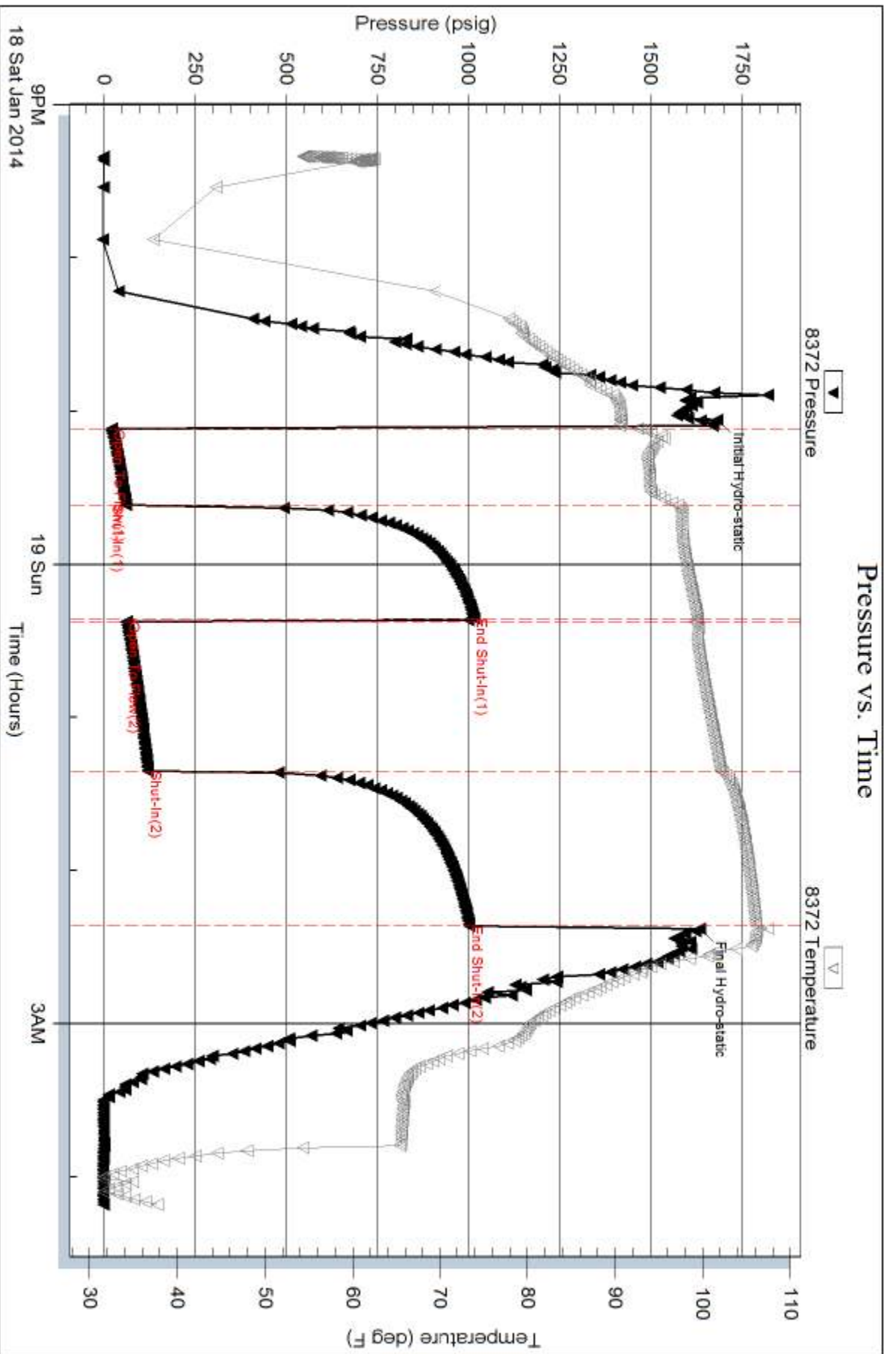
Serial #: 8372

Inside

Bickle Energies LLC

Energy #1

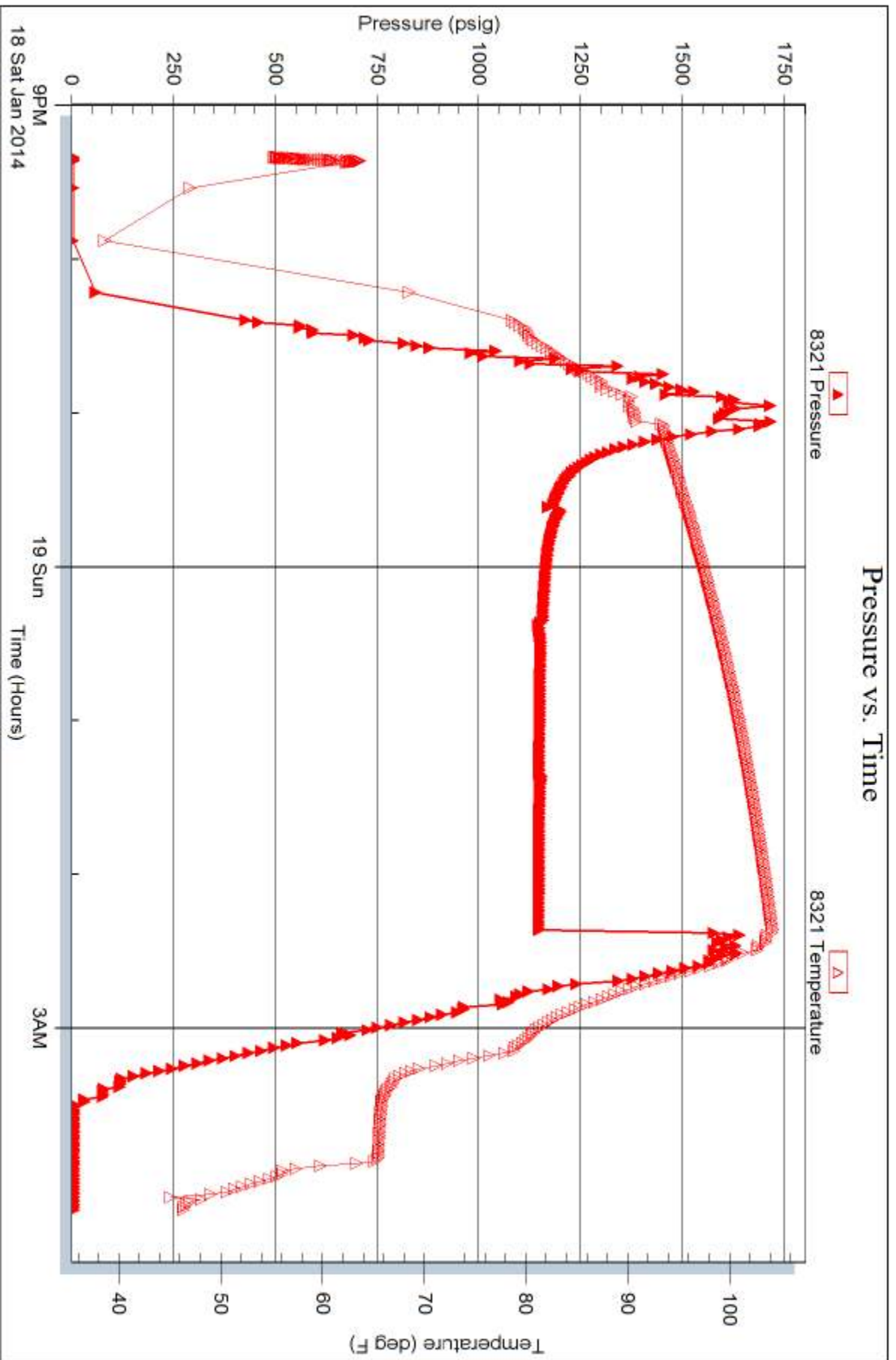
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54892

Printed: 2014.01.22 @ 16:01:17

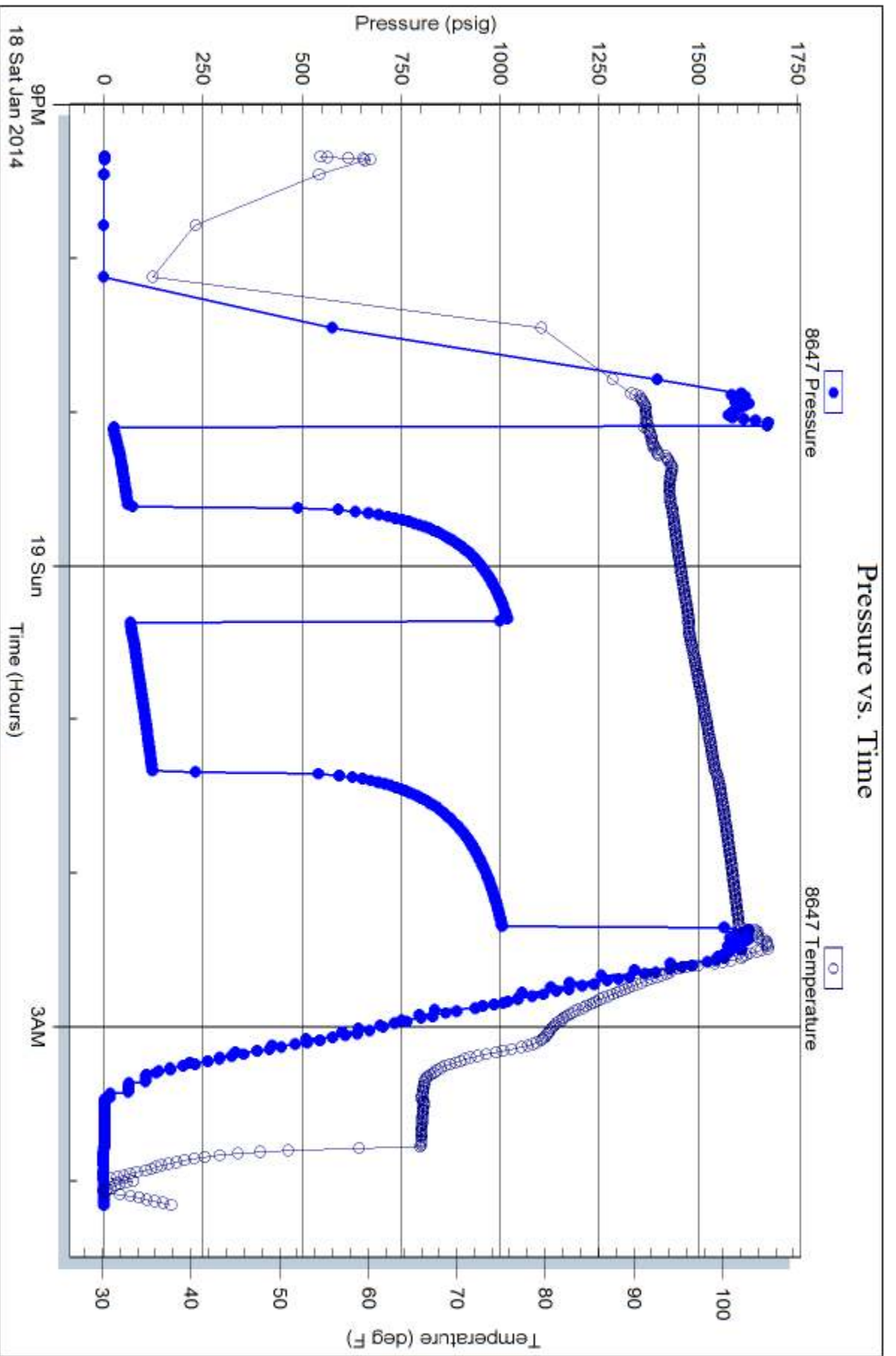


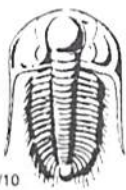
Serial #: 8647

Outside Bickie Energies LLC

Energy #1

DST Test Number: 3





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>				

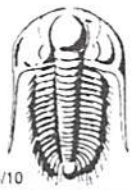
Rec Total 410' BHT 108° Gravity ———— API RW .14 @ 25° F Chlorides 13,500 ppm

(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

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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>	

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

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1688.90
 MP/DST Disc't ---

Sub Total 1688.90

Approved By _____ Our Representative Brannon L

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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 _____	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 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 _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>2288.90</u>
Final Shut-In <u>60</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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