



DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating**

7154 West State Street
Boise, ID 83714

ATTN: Sid Tomlinson

Cleveland #1

2-12s-19w Ellis,KS

Start Date: 2013.04.06 @ 16:35:00

End Date: 2013.04.07 @ 00:07:20

Job Ticket #: 51601 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.12 @ 13:09:41



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

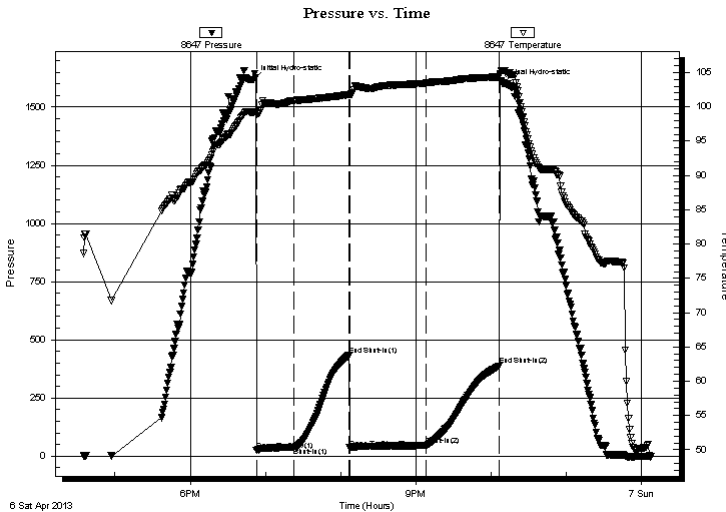
2-12s-19w Ellis,KS
Cleveland #1
Job Ticket: 51601 **DST#: 1**
Test Start: 2013.04.06 @ 16:35:00

GENERAL INFORMATION:

Formation: **Lansing A-C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:52:50
Time Test Ended: 00:07:20
Interval: **3378.00 ft (KB) To 3450.00 ft (KB) (TVD)**
Total Depth: 3450.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 68
Reference Elevations: 2124.00 ft (KB)
2112.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8647 Outside
Press @ Run Depth: 46.63 psig @ 3379.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.04.06 End Date: 2013.04.07 Last Calib.: 2013.04.12
Start Time: 16:35:05 End Time: 00:07:20 Time On Btm: 2013.04.06 @ 18:50:40
Time Off Btm: 2013.04.06 @ 22:09:30

TEST COMMENT: Weak blow building to 5 inches initial flow period.
Weak blow building to 9 inches final flow period.



PRESSURE SUMMARY

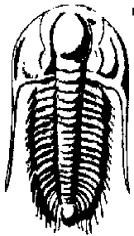
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.69	99.21	Initial Hydro-static
3	25.03	98.92	Open To Flow (1)
33	38.38	100.90	Shut-In(1)
76	433.80	101.81	End Shut-In(1)
77	35.04	101.83	Open To Flow (2)
138	46.63	103.45	Shut-In(2)
196	389.51	104.35	End Shut-In(2)
199	1603.16	105.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Heavy oil cut mud 40% oil & 60% mud	0.91

Gas Rates

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



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DRILL STEM TEST REPORT

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

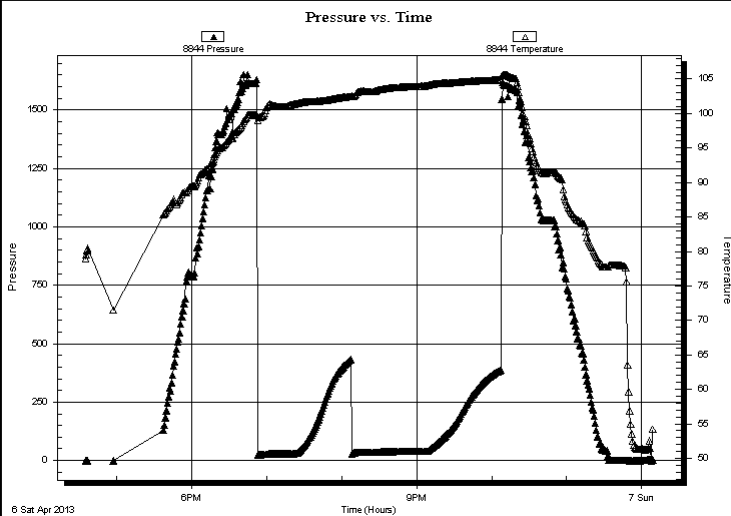
2-12s-19w Ellis, KS
Cleveland #1
Job Ticket: 51601 **DST#: 1**
Test Start: 2013.04.06 @ 16:35:00

GENERAL INFORMATION:

Formation: **Lansing A-C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:52:50
Time Test Ended: 00:07:20
Interval: **3378.00 ft (KB) To 3450.00 ft (KB) (TVD)**
Total Depth: 3450.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 68
Reference Elevations: 2124.00 ft (KB)
2112.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8844 Inside
Press @ Run Depth: psig @ 3379.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.04.06 End Date: 2013.04.07 Last Calib.: 1899.12.30
Start Time: 16:35:05 End Time: 00:08:59 Time On Btm:
Time Off Btm:

TEST COMMENT: Weak blow building to 5 inches initial flow period.
Weak blow building to 9 inches final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Heavy oil cut mud 40% oil & 60% mud	0.91

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis, KS
Cleveland #1
Job Ticket: 51601 **DST#: 1**
Test Start: 2013.04.06 @ 16:35:00

Tool Information

Drill Pipe:	Length: 3380.00 ft	Diameter: 3.80 inches	Volume: 47.41 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 47.41 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3378.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	101.00 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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Change Over Sub	1.00			3350.00	
Shut In Tool	5.00			3355.00	
Hydraulic tool	5.00			3360.00	
Jars	5.00			3365.00	
Safety Joint	3.00			3368.00	
Packer	5.00			3373.00	29.00 Bottom Of Top Packer
Packer	5.00			3378.00	
Stubb	1.00			3379.00	
Recorder	0.00	8844	Inside	3379.00	
Recorder	0.00	8647	Outside	3379.00	
Perforations	32.00			3411.00	
Change Over Sub	1.00			3412.00	
Blank Spacing	30.00			3442.00	
Change Over Sub	1.00			3443.00	
Perforations	4.00			3447.00	
Bullnose	3.00			3450.00	72.00 Bottom Packers & Anchor
Total Tool Length:	101.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis,KS
Cleveland #1
Job Ticket: 51601 **DST#: 1**
Test Start: 2013.04.06 @ 16:35:00

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Heavy oil cut mud 40% oil & 60% mud	0.912

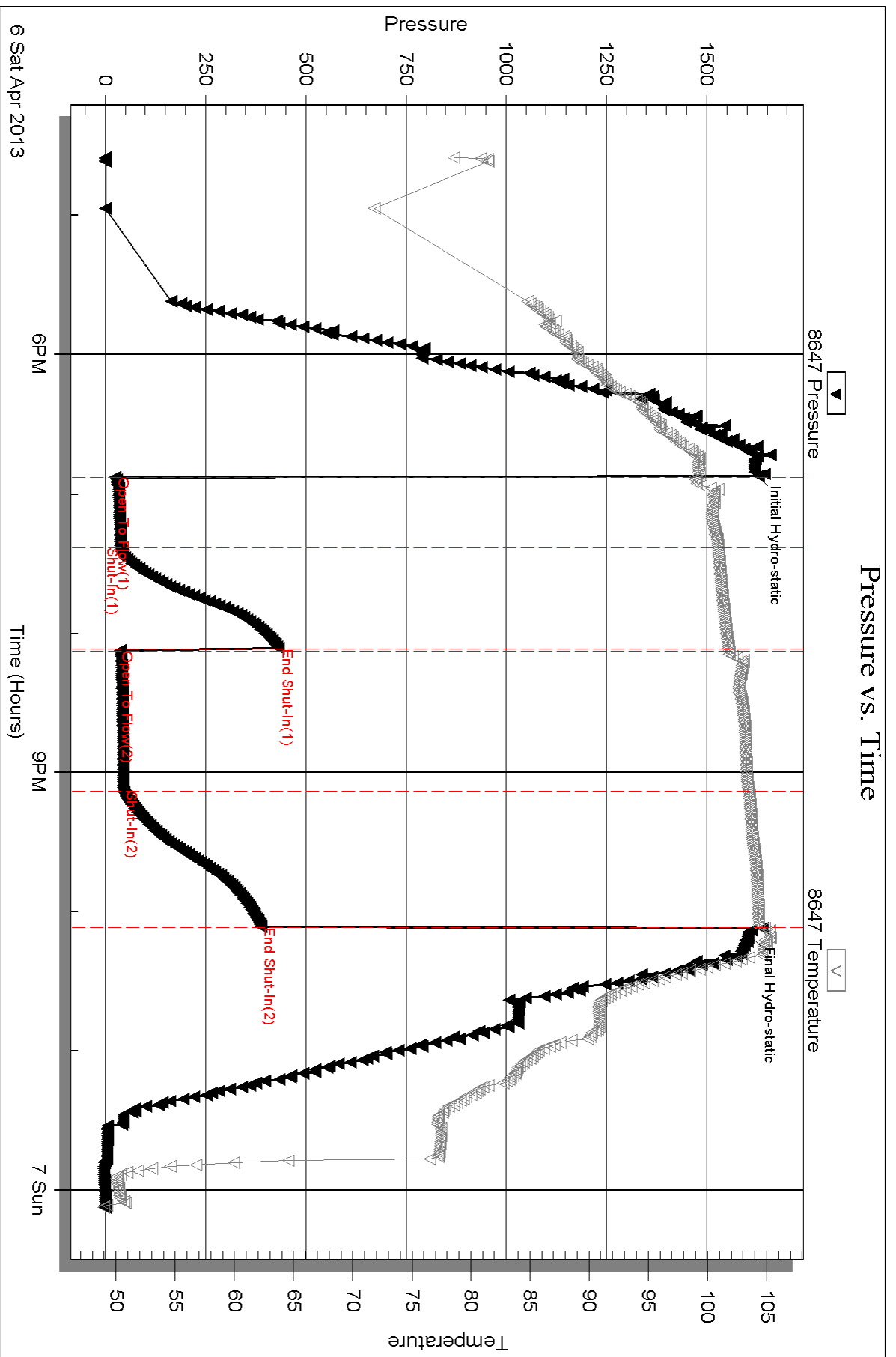
Total Length: 65.00 ft Total Volume: 0.912 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8647

Outside Tomlinson Operating

Cleveland #1

DST Test Number: 1



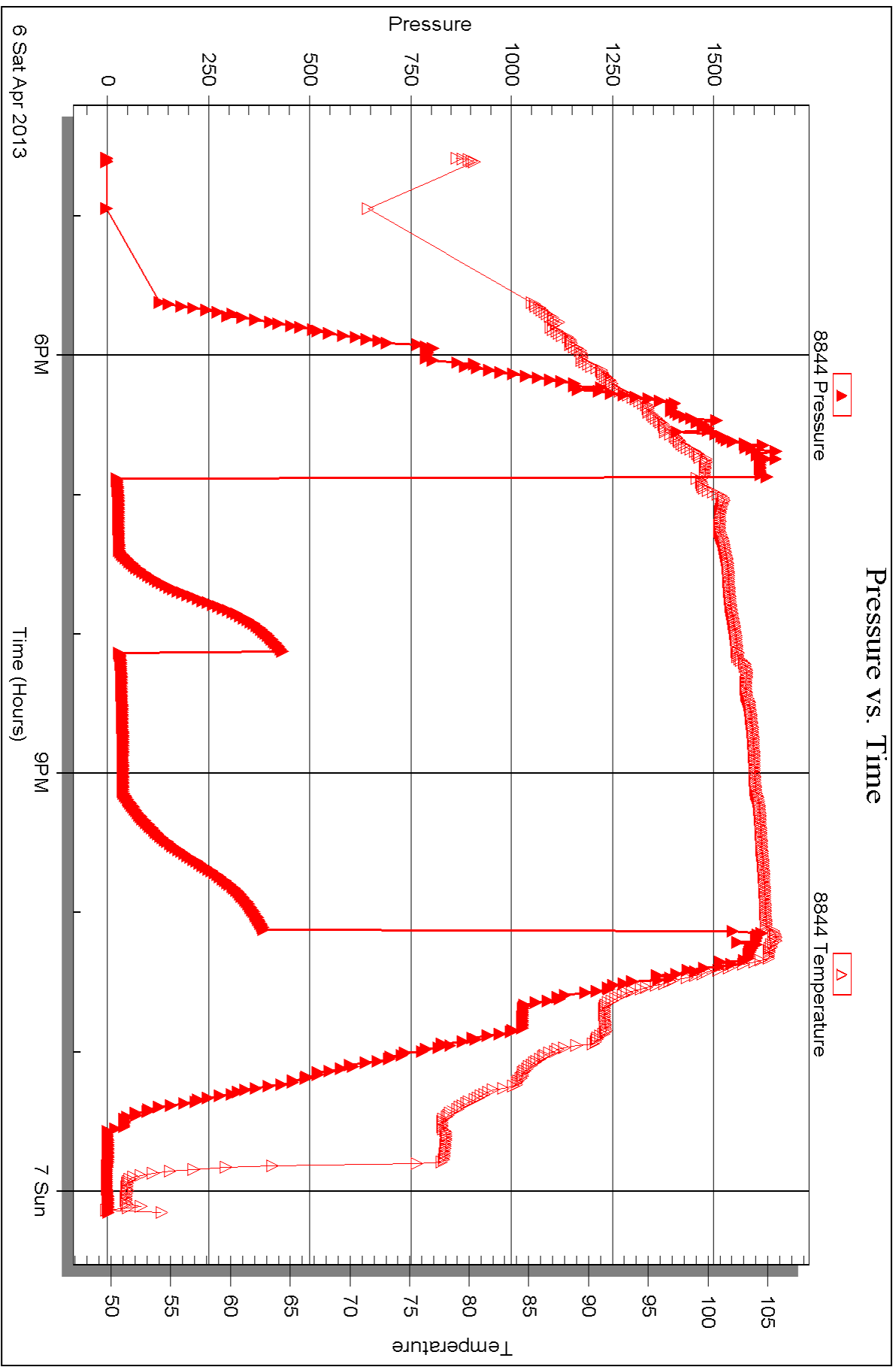
Serial #: 8844

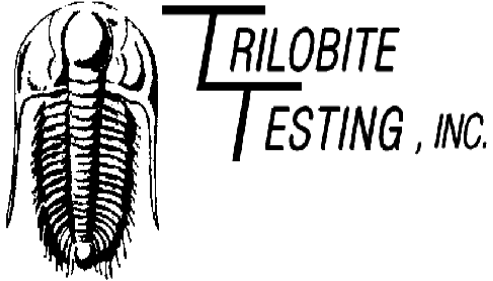
Inside

Tonkinson Operating

Cleveland #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating**

7154 West State Street
Boise, ID 83714

ATTN: Sid Tomlinson

Cleveland #1

2-12s-19w Ellis,KS

Start Date: 2013.04.07 @ 15:55:00

End Date: 2013.04.07 @ 22:07:09

Job Ticket #: 51602 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.12 @ 13:08:32



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis,KS
Cleveland #1
Job Ticket: 51602 **DST#: 2**
Test Start: 2013.04.07 @ 15:55:00

GENERAL INFORMATION:

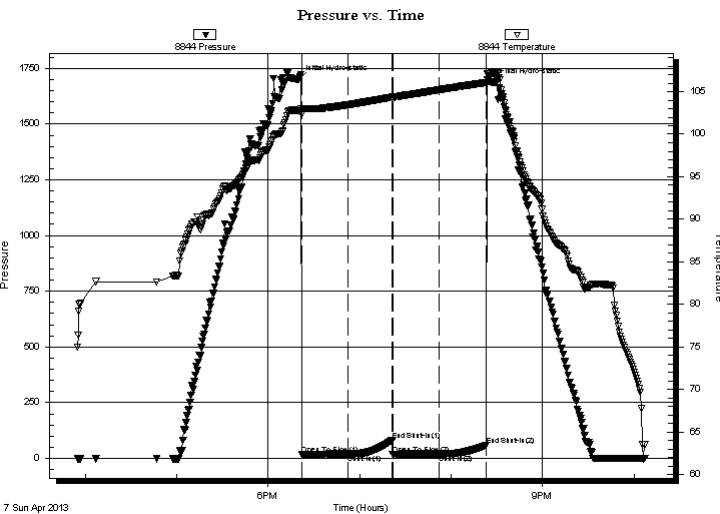
Formation: **Lansing I-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:22:10
Time Test Ended: 22:07:09
Interval: **3534.00 ft (KB) To 3560.00 ft (KB) (TVD)**
Total Depth: 3560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 68
Reference Elevations: 2124.00 ft (KB)
2112.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8844

Inside

Press @ RunDepth: 20.31 psig @ 3535.00 ft (KB)
Start Date: 2013.04.07 End Date: 2013.04.07
Start Time: 15:55:05 End Time: 22:07:10
Capacity: 8000.00 psig
Last Calib.: 2013.04.12
Time On Btm: 2013.04.07 @ 18:20:20
Time Off Btm: 2013.04.07 @ 20:27:39

TEST COMMENT: Weak 1/4" blow throughout initial flow period.
No blow final flow period.



PRESSURE SUMMARY

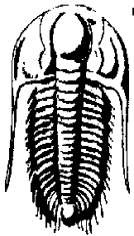
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.01	102.72	Initial Hydro-static
2	17.95	102.36	Open To Flow (1)
32	19.98	103.45	Shut-In(1)
61	81.64	104.34	End Shut-In(1)
62	17.70	104.31	Open To Flow (2)
92	20.31	105.21	Shut-In(2)
123	57.59	106.06	End Shut-In(2)
128	1687.27	107.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil cut mud 13% oil and 87% mud.	

Gas Rates

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



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DRILL STEM TEST REPORT

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis,KS

Cleveland #1

Job Ticket: 51602

DST#: 2

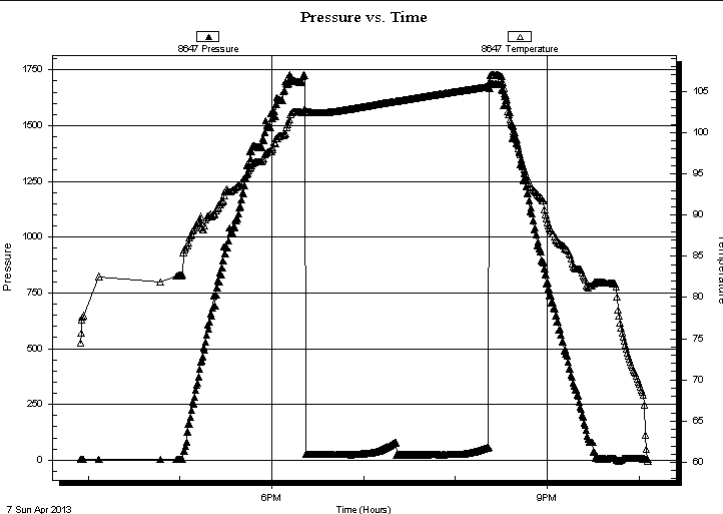
Test Start: 2013.04.07 @ 15:55:00

GENERAL INFORMATION:

Formation: **Lansing I-K**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:22:10
 Tester: Jimmy Ricketts
 Time Test Ended: 22:07:09
 Unit No: 68
Interval: 3534.00 ft (KB) To 3560.00 ft (KB) (TVD)
 Reference Elevations: 2124.00 ft (KB)
 Total Depth: 3560.00 ft (KB) (TVD) 2112.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 12.00 ft

Serial #: 8647 **Outside**
 Press @ RunDepth: psig @ 3535.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.07 End Date: 2013.04.07 Last Calib.: 1899.12.30
 Start Time: 15:55:05 End Time: 22:05:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: Weak 1/4" blow throughout initial flow period.
 No blow final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil cut mud 13% oil and 87% mud.	

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis, KS
Cleveland #1
Job Ticket: 51602 **DST#: 2**
Test Start: 2013.04.07 @ 15:55:00

Tool Information

Drill Pipe:	Length: 3535.00 ft	Diameter: 3.80 inches	Volume: 49.59 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	21000.00 lb
Drill Collar:	Length: ft	Diameter: 2.25 inches	Volume: - bbl	Weight to Pull Loose:	51000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	12.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	43000.00 lb
Depth to Top Packer:	3534.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	76.00 ft				
Tool Length:	106.00 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			3505.00	
Shut In Tool	5.00			3510.00	
Hydraulic tool sampler	5.00			3515.00	
Jars	3.00			3518.00	
Jars	4.00			3522.00	
Safety Joint	2.00			3524.00	
Packer	5.00			3529.00	30.00 Bottom Of Top Packer
Packer	5.00			3534.00	
Stubb	1.00			3535.00	
Recorder	0.00	8844	Inside	3535.00	
Recorder	0.00	8647	Outside	3535.00	
Perforations	5.00			3540.00	
Change Over Sub	1.00			3541.00	
Blank Spacing	61.00			3602.00	
Change Over Sub	1.00			3603.00	
Perforations	4.00			3607.00	
Bullnose	3.00			3610.00	76.00 Bottom Packers & Anchor
Total Tool Length:	106.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis,KS
Cleveland #1
Job Ticket: 51602 **DST#: 2**
Test Start: 2013.04.07 @ 15:55:00

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil cut mud 13% oil and 87% mud.	

Total Length: 5.00 ft Total Volume: bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

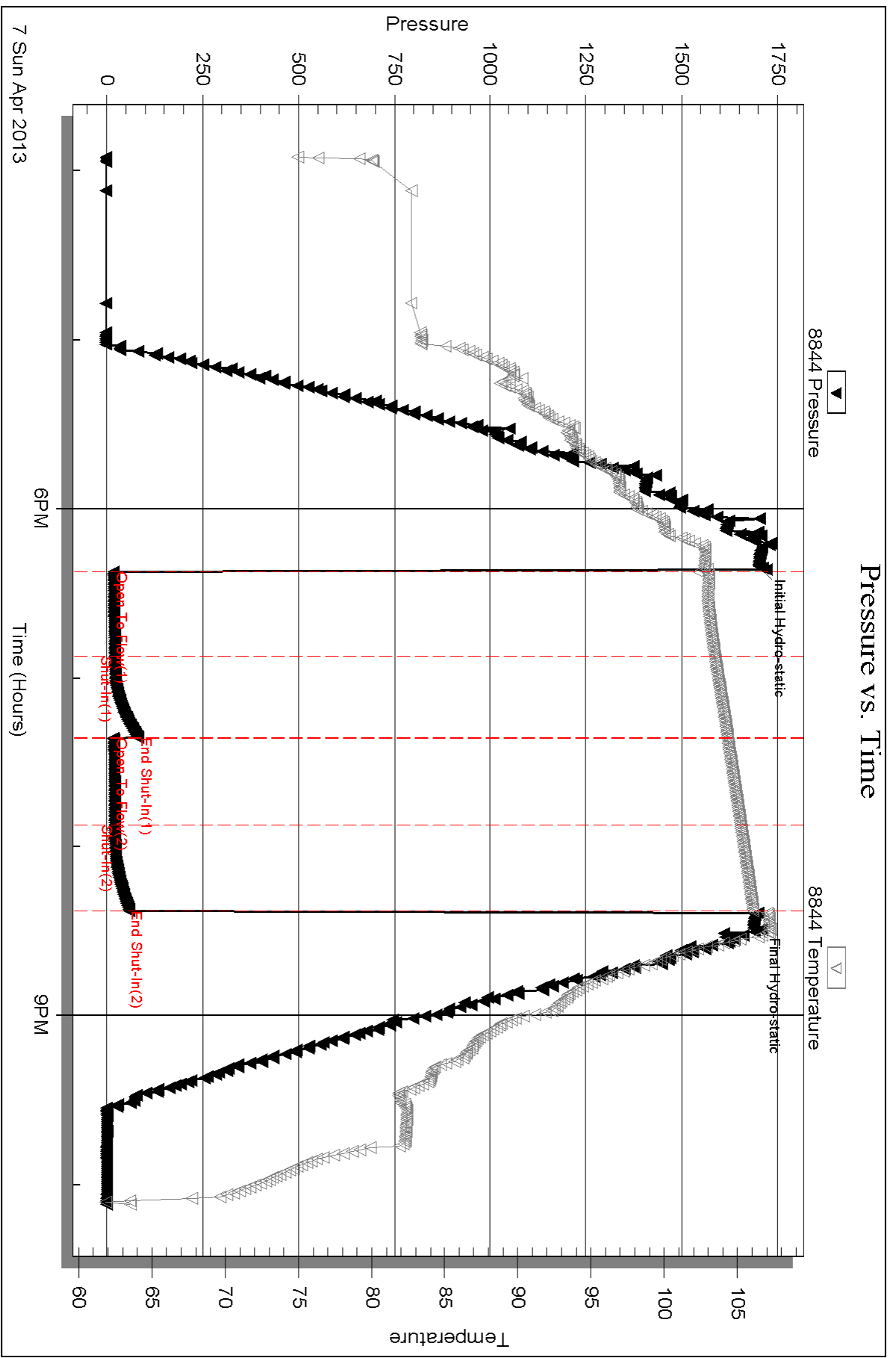
Serial #: 8844

Inside

Tonlison Operating

Cleveland #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51602

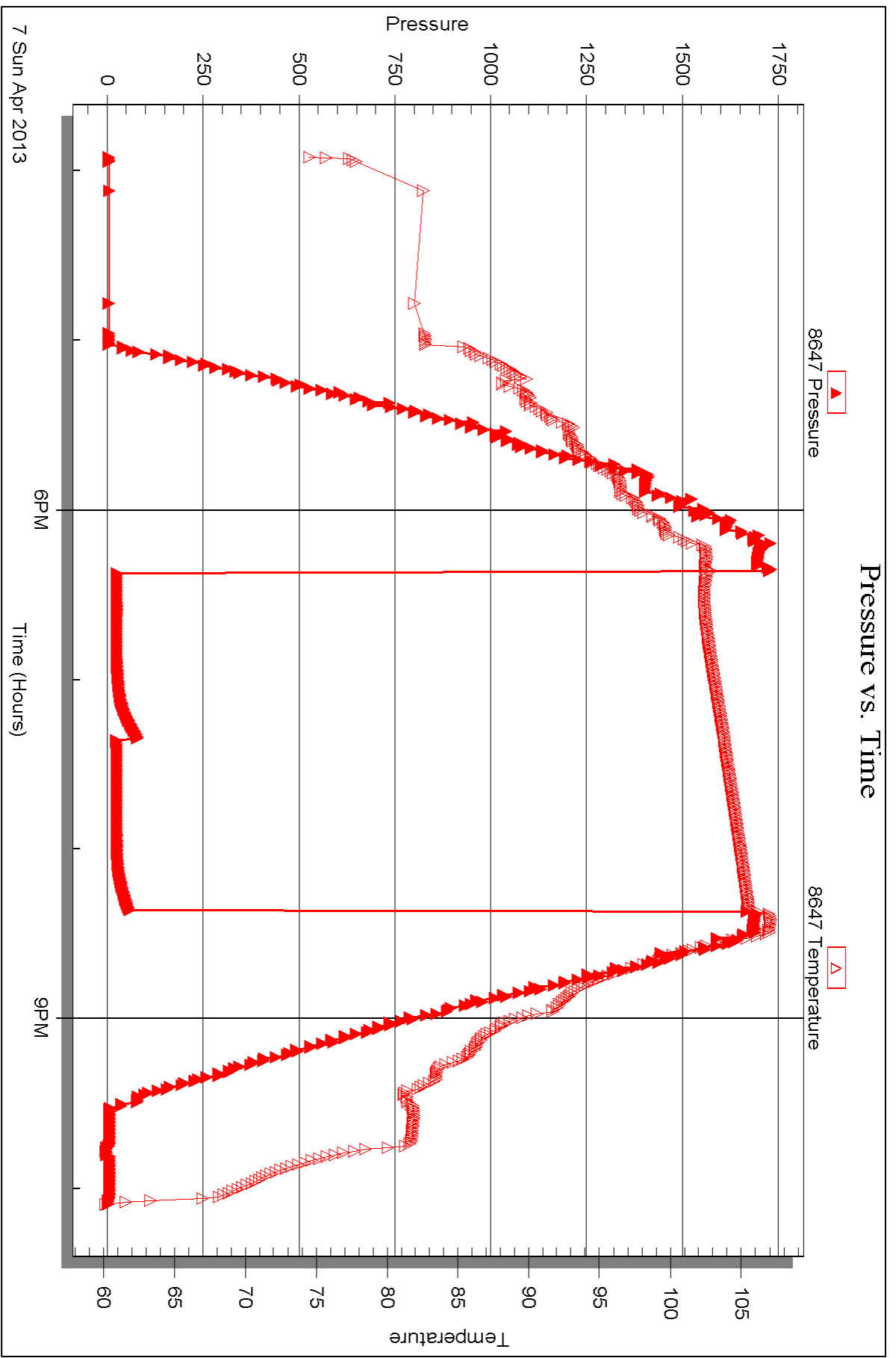
Printed: 2013.04.12 @ 13:08:35

Serial #: 8647

Outside Tomlinson Operating

Cleveland #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating**

7154 West State Street
Boise, ID 83714

ATTN: Sid Tomlinson

Cleveland #1

2-12s-19w Ellis,KS

Start Date: 2013.04.08 @ 07:26:00

End Date: 2013.04.08 @ 14:12:20

Job Ticket #: 51603 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.12 @ 11:54:19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

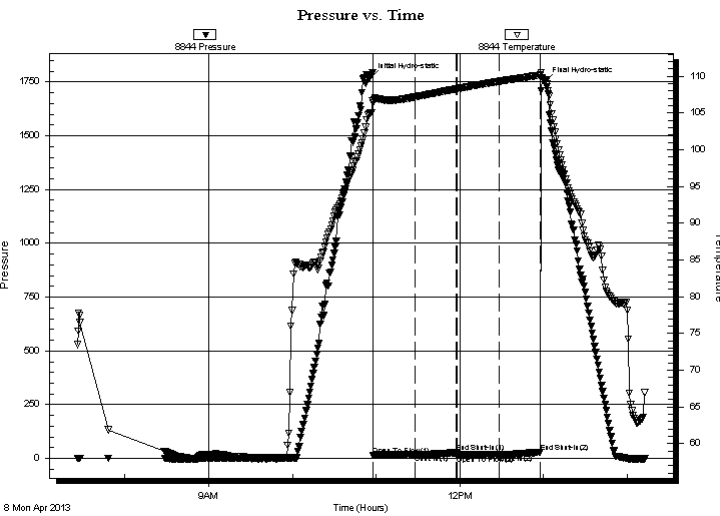
2-12s-19w Ellis,KS
Cleveland #1
Job Ticket: 51603 **DST#: 3**
Test Start: 2013.04.08 @ 07:26:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:58:00
Time Test Ended: 14:12:20
Interval: **3662.00 ft (KB) To 3674.00 ft (KB) (TVD)**
Total Depth: 3674.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 68
Reference Elevations: 2124.00 ft (KB)
2112.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8844 Inside
Press @ Run Depth: 18.25 psig @ 3663.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.04.08 End Date: 2013.04.08 Last Calib.: 2013.04.08
Start Time: 07:26:05 End Time: 14:12:20 Time On Btm: 2013.04.08 @ 10:56:00
Time Off Btm: 2013.04.08 @ 13:01:20

TEST COMMENT: Weak 1/4 inch blow throughout initial flow period.
No blow final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.44	105.01	Initial Hydro-static
2	15.59	106.40	Open To Flow (1)
32	18.26	107.16	Shut-In(1)
62	27.43	108.27	End Shut-In(1)
62	16.77	108.27	Open To Flow (2)
92	18.25	109.29	Shut-In(2)
122	29.43	110.14	End Shut-In(2)
126	1750.53	109.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.01

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

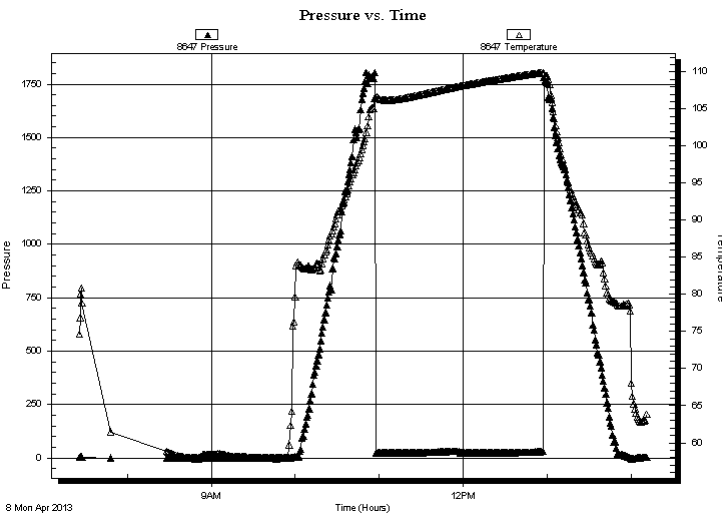
2-12s-19w Ellis, KS
Cleveland #1
Job Ticket: 51603 **DST#: 3**
Test Start: 2013.04.08 @ 07:26:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 10:58:00 Tester: Jimmy Ricketts
Time Test Ended: 14:12:20 Unit No: 68
Interval: 3662.00 ft (KB) To 3674.00 ft (KB) (TVD) Reference Elevations: 2124.00 ft (KB)
Total Depth: 3674.00 ft (KB) (TVD) 2112.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 12.00 ft

Serial #: 8647 Outside
Press @ RunDepth: psig @ 3663.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.04.08 End Date: 2013.04.08 Last Calib.: 1899.12.30
Start Time: 07:26:05 End Time: 14:10:59 Time On Btm:
Time Off Btm:

TEST COMMENT: Weak 1/4 inch blow throughout initial flow period.
No blow final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis, KS
Cleveland #1
Job Ticket: 51603 **DST#: 3**
Test Start: 2013.04.08 @ 07:26:00

Tool Information

Drill Pipe:	Length: 3658.00 ft	Diameter: 3.80 inches	Volume: 51.31 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 21000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 51.31 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3662.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments: Tester forgot to put recorders in tool. Started in hole 8:00 am. Realized no recorder 8:45. Started out of hole 9:00. Put in recorders and headed back in at 10:00 am. On bottom at 10:55.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3637.00	
Shut In Tool	5.00			3642.00	
Hydraulic tool	5.00			3647.00	
Jars	4.00			3651.00	
Safety Joint	2.00			3653.00	
Packer	5.00			3658.00	26.00 Bottom Of Top Packer
Packer	4.00			3662.00	
Stubb	1.00			3663.00	
Recorder	0.00	8844	Inside	3663.00	
Recorder	0.00	8647	Outside	3663.00	
Perforations	8.00			3671.00	
Bullnose	3.00			3674.00	12.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis,KS
Cleveland #1
Job Ticket: 51603 **DST#: 3**
Test Start: 2013.04.08 @ 07:26:00

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: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

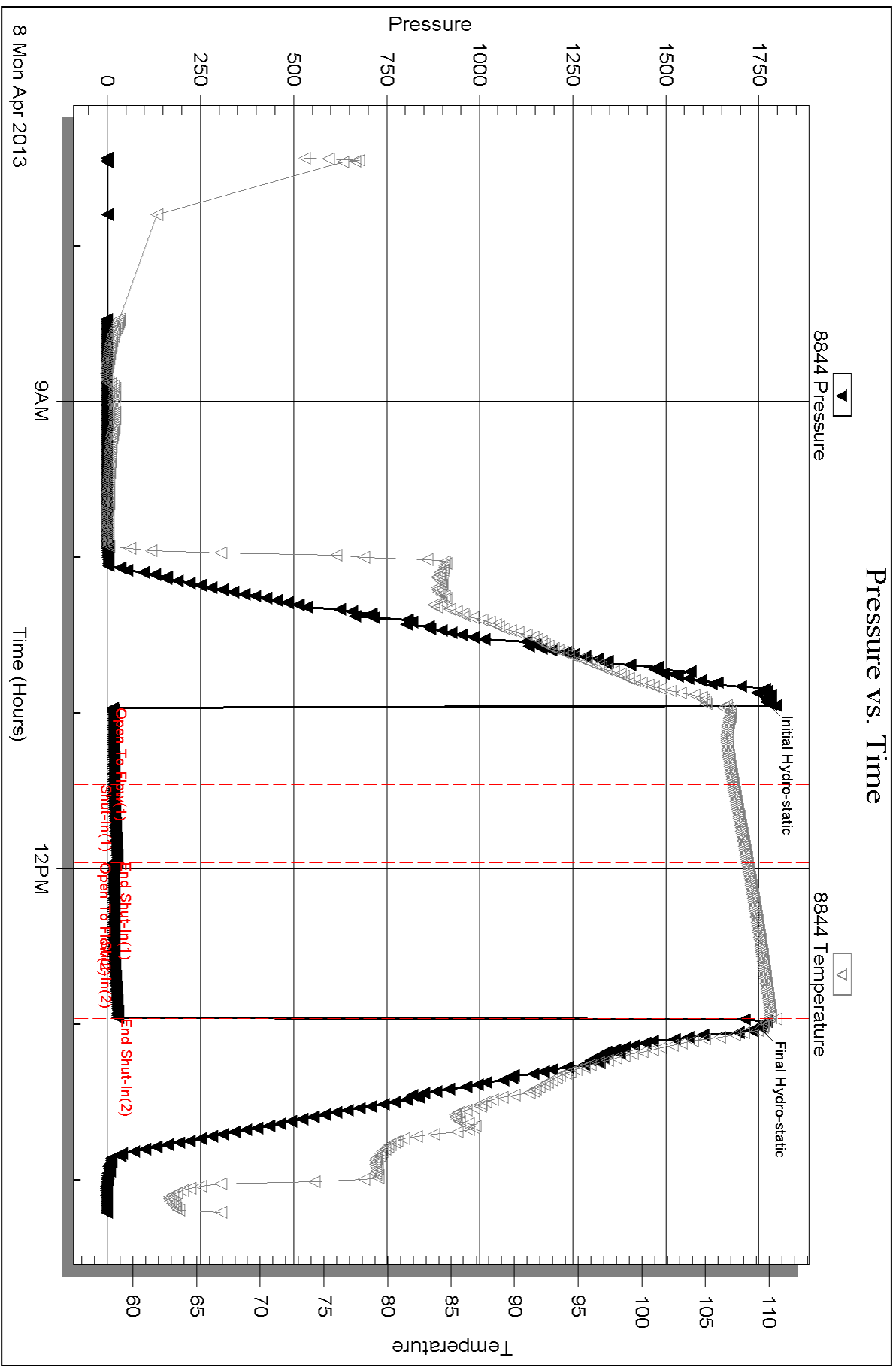
Serial #: 8844

Inside

Tontinson Operating

Cleveland #1

DST Test Number: 3

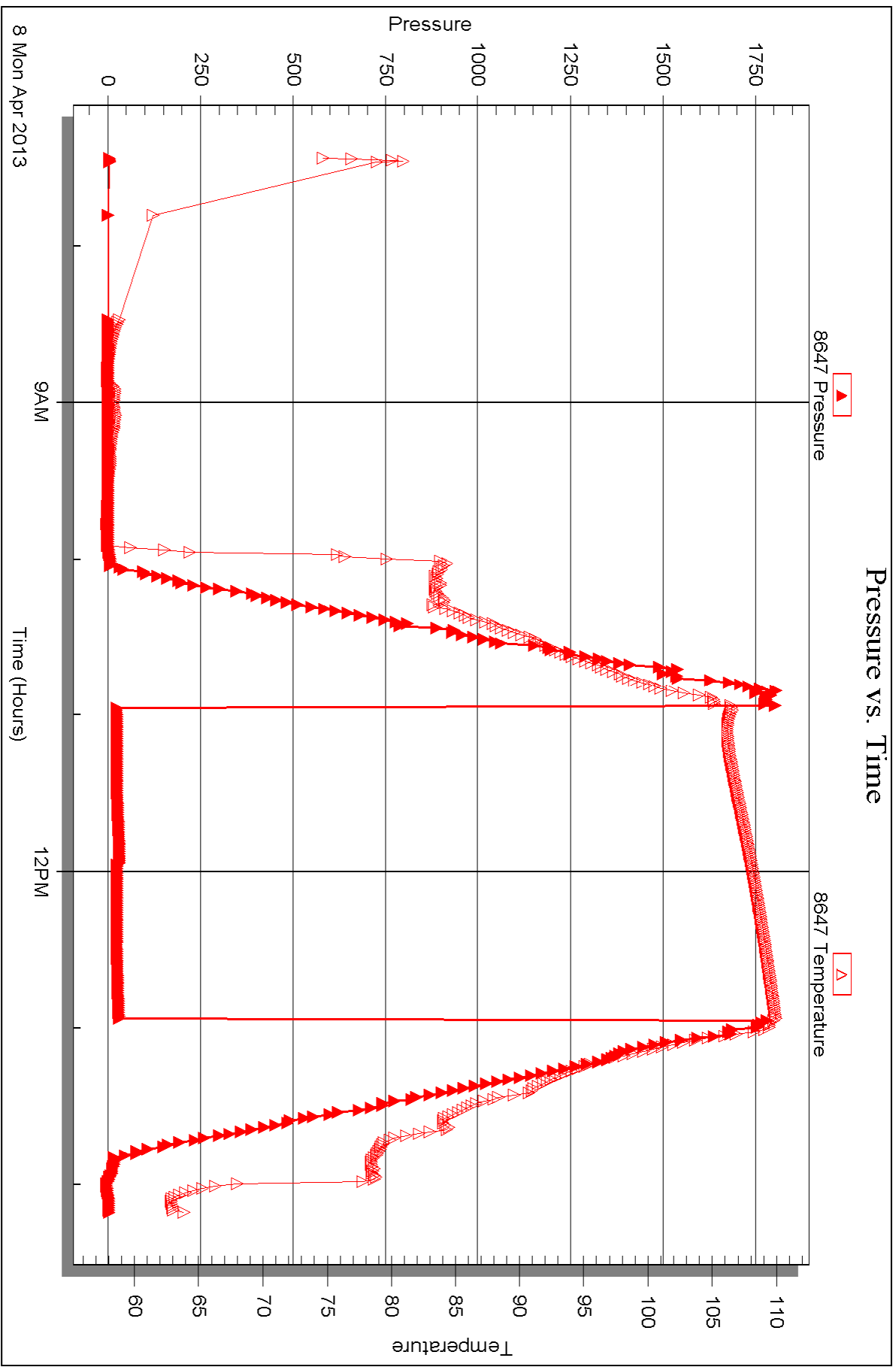


Serial #: 8647

Outside Tomlinson Operating

Cleveland #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating**

7154 West State Street
Boise, ID 83714

ATTN: Sid Tomlinson

Cleveland #1

2-12s-19w Ellis,KS

Start Date: 2013.04.08 @ 19:56:00

End Date: 2013.04.09 @ 01:40:39

Job Ticket #: 51604 DST #: 4

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

Printed: 2013.04.12 @ 11:53:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

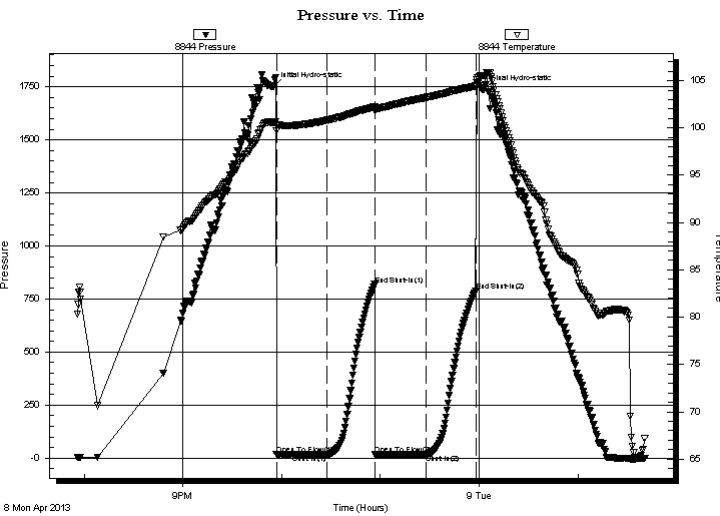
2-12s-19w Ellis,KS
Cleveland #1
Job Ticket: 51604 **DST#: 4**
Test Start: 2013.04.08 @ 19:56:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:56:50
Time Test Ended: 01:40:39
Interval: **3661.00 ft (KB) To 3684.00 ft (KB) (TVD)**
Total Depth: 3684.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 68
Reference Elevations: 2124.00 ft (KB)
2112.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8844 Inside
Press @ Run Depth: 17.14 psig @ 3662.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.04.08 End Date: 2013.04.09 Last Calib.: 2013.04.08
Start Time: 19:56:05 End Time: 01:40:40 Time On Btm: 2013.04.08 @ 21:55:00
Time Off Btm: 2013.04.09 @ 00:03:00

TEST COMMENT: Weak 1/4 inch blow throughout initial flow period.
Weak 1/4 inch blow throughout final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.77	100.59	Initial Hydro-static
2	16.51	99.67	Open To Flow (1)
33	15.73	100.80	Shut-In(1)
62	817.74	102.22	End Shut-In(1)
62	16.28	101.77	Open To Flow (2)
93	17.14	103.22	Shut-In(2)
123	789.04	104.41	End Shut-In(2)
128	1737.99	105.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Clean oil	0.01
4.00	Oil cut mud 15% oil and 85% mud	0.06

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

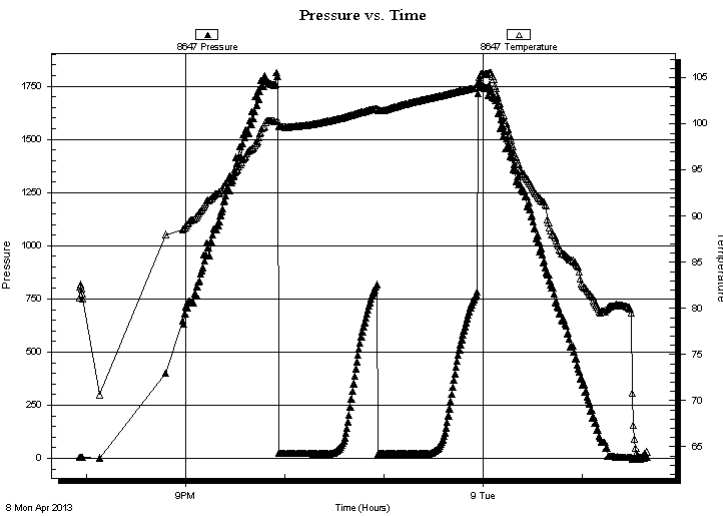
2-12s-19w Ellis,KS
Cleveland #1
Job Ticket: 51604 **DST#: 4**
Test Start: 2013.04.08 @ 19:56:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:56:50
Time Test Ended: 01:40:39
Interval: **3661.00 ft (KB) To 3684.00 ft (KB) (TVD)**
Total Depth: 3684.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Reference Elevations: 2124.00 ft (KB)
2112.00 ft (CF)
KB to GR/CF: 12.00 ft
Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 68

Serial #: 8647 Outside
Press @ RunDepth: psig @ 3662.00 ft (KB)
Start Date: 2013.04.08 End Date: 2013.04.09
Start Time: 19:56:05 End Time: 01:39:29
Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: Weak 1/4 inch blow throughout initial flow period.
Weak 1/4 inch blow throughout final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Clean oil	0.01
4.00	Oil cut mud 15% oil and 85% mud	0.06

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis, KS
Cleveland #1
Job Ticket: 51604 **DST#: 4**
Test Start: 2013.04.08 @ 19:56:00

Tool Information

Drill Pipe:	Length: 3659.00 ft	Diameter: 3.80 inches	Volume: 51.33 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	21000.00 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: 51.33 bbl</u>	Tool Chased	1.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3661.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 ft				
Tool Length:	49.00 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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Change Over Sub	1.00			3636.00	
Shut In Tool	5.00			3641.00	
Hydraulic tool	5.00			3646.00	
Jars	4.00			3650.00	
Safety Joint	2.00			3652.00	
Packer	5.00			3657.00	26.00 Bottom Of Top Packer
Packer	4.00			3661.00	
Stubb	1.00			3662.00	
Recorder	0.00	8844	Inside	3662.00	
Recorder	0.00	8647	Outside	3662.00	
Perforations	19.00			3681.00	
Bullnose	3.00			3684.00	23.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis,KS
Cleveland #1
Job Ticket: 51604 **DST#: 4**
Test Start: 2013.04.08 @ 19:56:00

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Clean oil	0.014
4.00	Oil cut mud 15% oil and 85% mud	0.056

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:

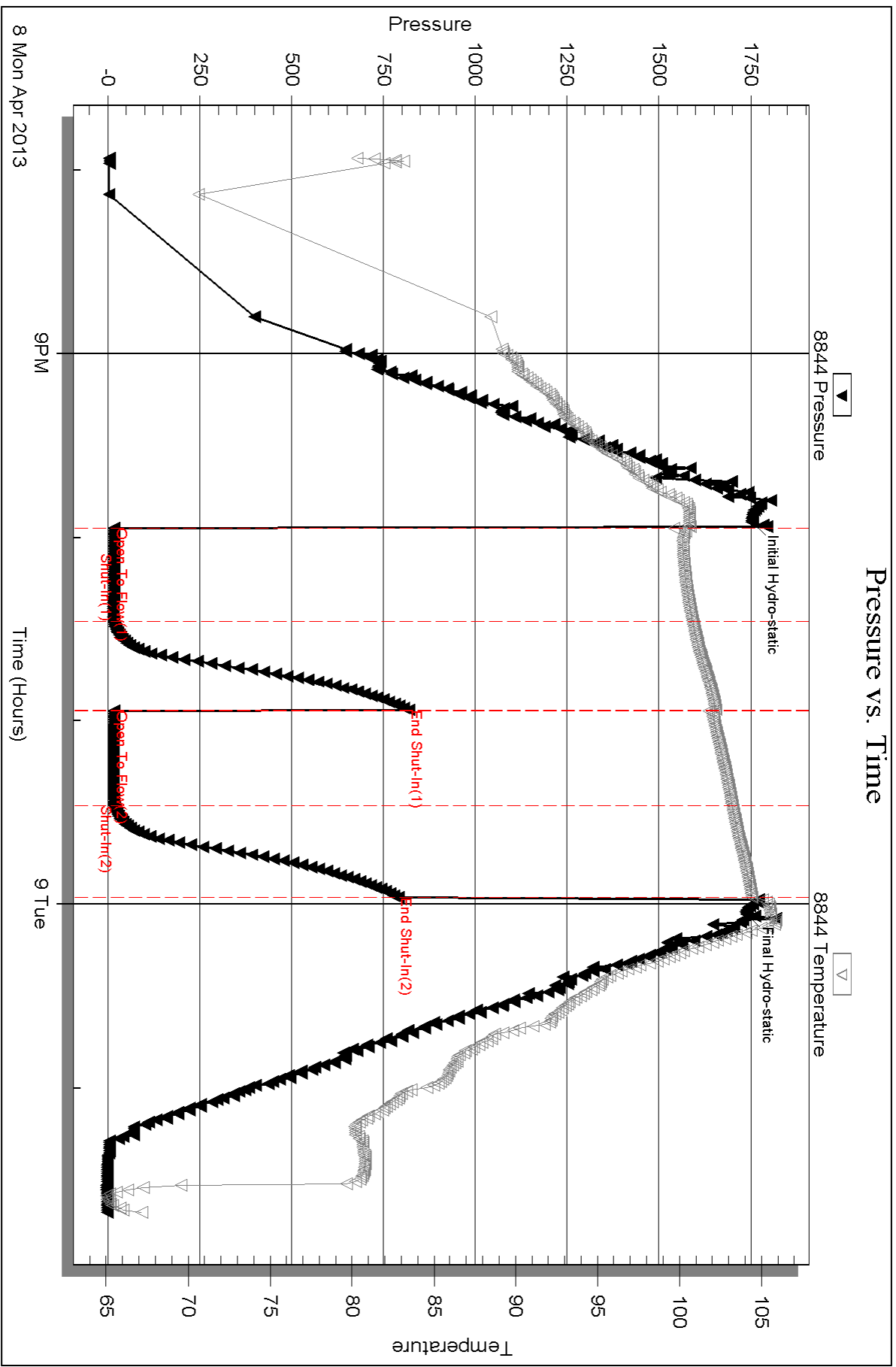
Serial #: 8844

Inside

Tonkinson Operating

Cleveland #1

DST Test Number: 4

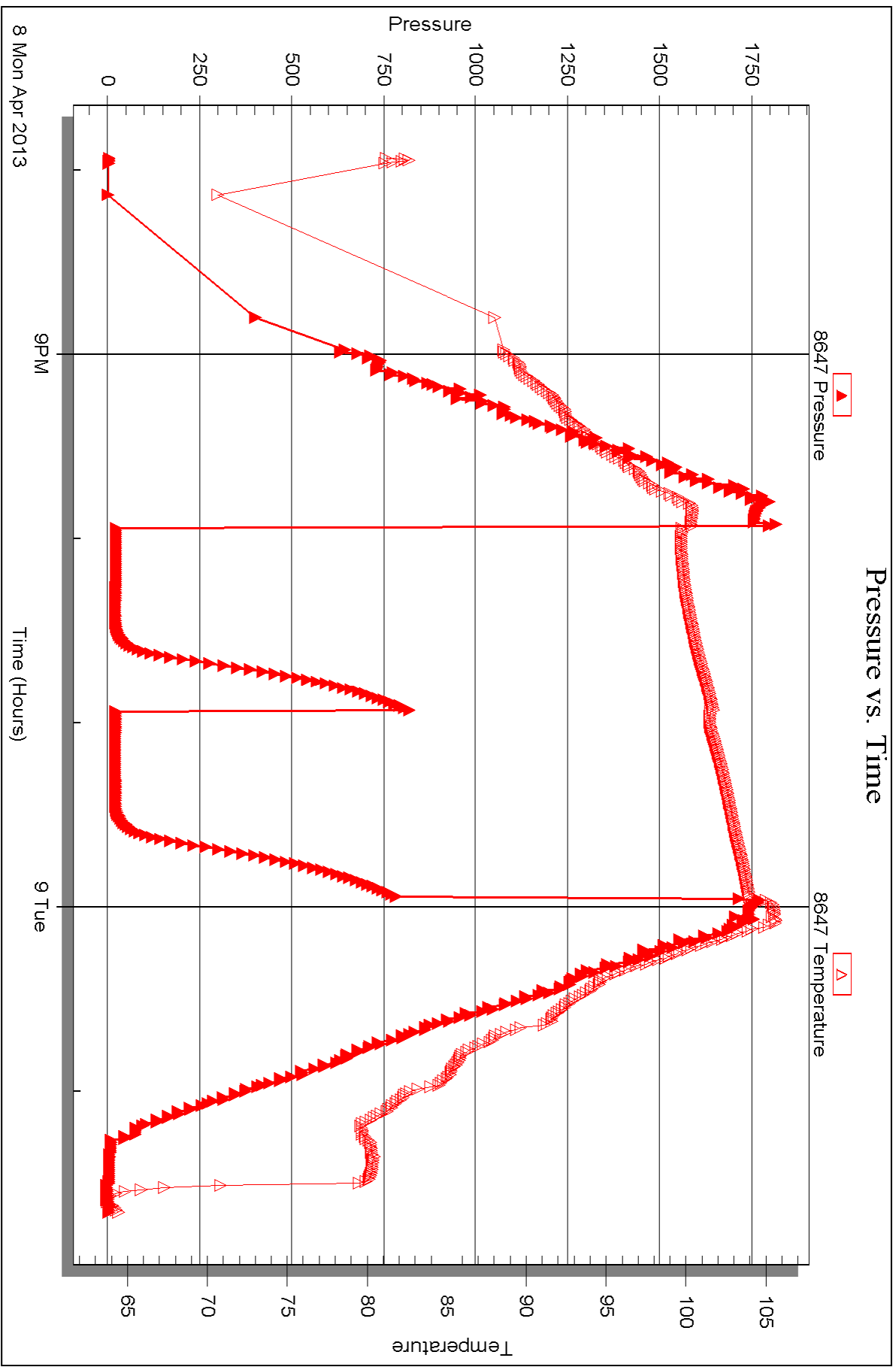


Serial #: 8647

Outside Tomlinson Operating

Cleveland #1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating**

7154 West State Street
Boise, ID 83714

ATTN: Sid Tomlinson

Cleveland #1

2-12s-19w Ellis,KS

Start Date: 2013.04.09 @ 15:52:00

End Date: 2013.04.09 @ 23:35:20

Job Ticket #: 51605 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.12 @ 11:49:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tomlinson Operating
 7154 West State Street
 Boise, ID 83714
 ATTN: Sid Tomlinson

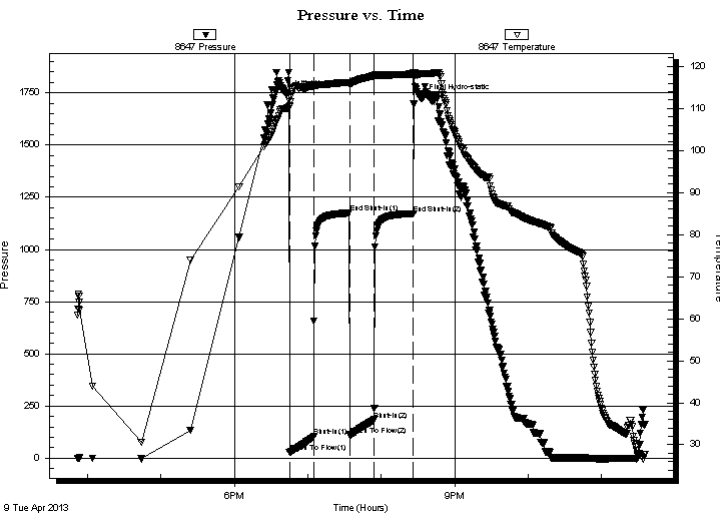
2-12s-19w Ellis,KS
Cleveland #1
 Job Ticket: 51605 **DST#: 5**
 Test Start: 2013.04.09 @ 15:52:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:45:10
 Time Test Ended: 23:35:20
Interval: 3680.00 ft (KB) To 3691.00 ft (KB) (TVD)
 Total Depth: 3749.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Straddle (Initial)
 Tester: Jimmy Ricketts
 Unit No: 68
 Reference Elevations: 2124.00 ft (KB)
 2112.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8647 Inside
 Press @ RunDepth: 183.87 psig @ 3681.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.09 End Date: 2013.04.09 Last Calib.: 2013.04.10
 Start Time: 15:52:05 End Time: 23:35:20 Time On Btm: 2013.04.09 @ 18:43:20
 Time Off Btm: 2013.04.09 @ 20:33:00

TEST COMMENT: Weak blow building to strong blow (BOB) 11 minutes into initial flow period.
 Weak blow building to strong blow 13 minutes into final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.45	110.05	Initial Hydro-static
2	26.40	110.72	Open To Flow (1)
22	103.50	115.38	Shut-In(1)
51	1174.47	116.23	End Shut-In(1)
52	109.14	115.88	Open To Flow (2)
71	183.87	117.73	Shut-In(2)
103	1172.23	118.17	End Shut-In(2)
110	1722.04	118.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Clean oil 100% oil	0.01
379.00	Mud cut w ater 16% mud and 84% w ater	5.32

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tomlinson Operating
 7154 West State Street
 Boise, ID 83714
 ATTN: Sid Tomlinson

2-12s-19w Ellis,KS
Cleveland #1
 Job Ticket: 51605 **DST#: 5**
 Test Start: 2013.04.09 @ 15:52:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:45:10
 Time Test Ended: 23:35:20
Interval: 3680.00 ft (KB) To 3691.00 ft (KB) (TVD)
 Total Depth: 3749.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Straddle (Initial)
 Tester: Jimmy Ricketts
 Unit No: 68
 Reference Elevations: 2124.00 ft (KB)
 2112.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8372 Below (Straddle)
 Press @ Run Depth: psig @ 3731.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.09 End Date: 2013.04.09 Last Calib.: 1899.12.30
 Start Time: 16:39:05 End Time: 23:35:10 Time On Btm:
 Time Off Btm:

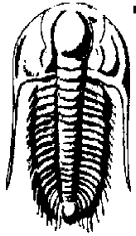
TEST COMMENT: Weak blow building to strong blow (BOB) 11 minutes into initial flow period.
 Weak blow building to strong blow 13 minutes into final flow period.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
1.00	Clean oil 100% oil	0.01
379.00	Mud cut w ater 16% mud and 84% w ater	5.32

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tomlinson Operating
 7154 West State Street
 Boise, ID 83714
 ATTN: Sid Tomlinson

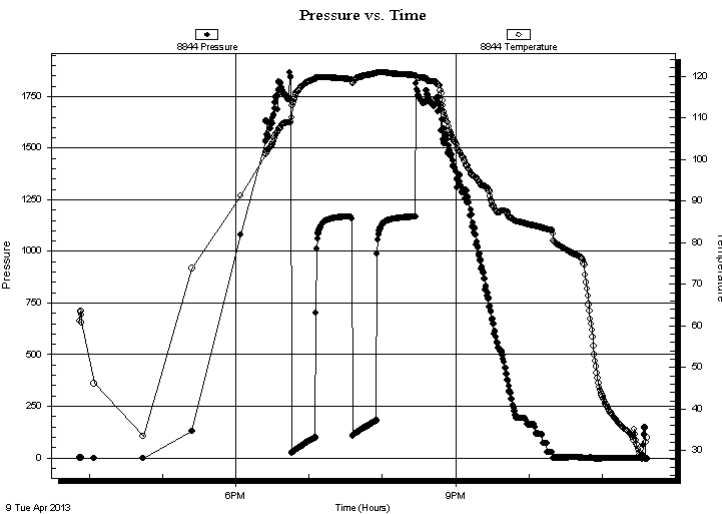
2-12s-19w Ellis, KS
 Cleaveland #1
 Job Ticket: 51605 DST#: 5
 Test Start: 2013.04.09 @ 15:52:00

GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Straddle (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Jimmy Ricketts
Time Tool Opened: 18:45:10	Unit No: 68
Time Test Ended: 23:35:20	Reference Elevations: 2124.00 ft (KB)
Interval: 3680.00 ft (KB) To 3691.00 ft (KB) (TVD)	2112.00 ft (CF)
Total Depth: 3749.00 ft (KB) (TVD)	KB to GR/CF: 12.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Poor

Serial #: 8844	Outside		
Press @ RunDepth: psig @ 3681.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2013.04.09	End Date: 2013.04.09	Last Calib.: 1899.12.30	
Start Time: 15:52:05	End Time: 23:36:50	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: Weak blow building to strong blow (BOB) 11 minutes into initial flow period.
 Weak blow building to strong blow 13 minutes into final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Clean oil 100% oil	0.01
379.00	Mud cut w ater 16% mud and 84% w ater	5.32

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis, KS
Cleveland #1
Job Ticket: 51605 **DST#: 5**
Test Start: 2013.04.09 @ 15:52:00

Tool Information

Drill Pipe:	Length: 3690.00 ft	Diameter: 3.80 inches	Volume: 51.76 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 23000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 51.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3680.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	3691.00 ft			
Interval between Packers:	11.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments: Tail pipe of 58 foot. Bottom packers held.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3660.00	
Shut In Tool	5.00			3665.00	
Hydraulic tool	5.00			3670.00	
Jars	4.00			3674.00	
Safety Joint	2.00			3676.00	
Packer	4.00			3680.00	21.00 Bottom Of Top Packer
Stubb	1.00			3681.00	
Recorder	0.00	8647	Inside	3681.00	
Recorder	0.00	8844	Outside	3681.00	
Perforations	10.00			3691.00	
Packer	1.00			3692.00	
Blank Off Sub	1.00			3693.00	11.00 Tool Interval
Packer	5.00			3698.00	
Change Over Sub	1.00			3699.00	
Blank Spacing	31.00			3730.00	
Change Over Sub	1.00			3731.00	
Recorder	0.00	8372	Below	3731.00	
Perforations	15.00			3746.00	
Bullnose	3.00			3749.00	58.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating
7154 West State Street
Boise, ID 83714
ATTN: Sid Tomlinson

2-12s-19w Ellis,KS
Cleveland #1
Job Ticket: 51605 **DST#: 5**
Test Start: 2013.04.09 @ 15:52:00

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:	24000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Clean oil 100% oil	0.014
379.00	Mud cut w ater 16% mud and 84% w ater	5.316

Total Length: 380.00 ft Total Volume: 5.330 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

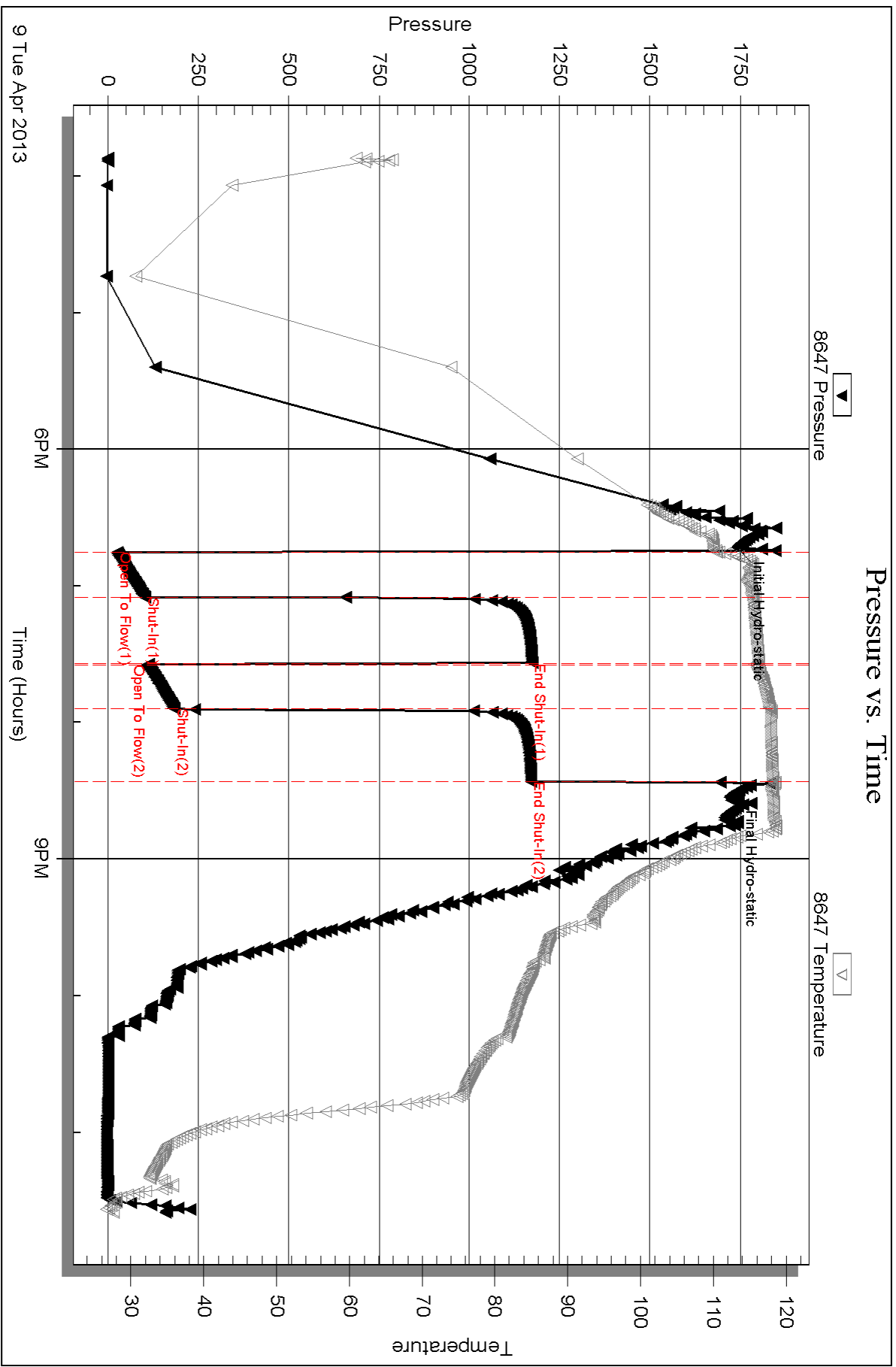
Serial #: 8647

Inside

Tonkinson Operating

Cleveland #1

DST Test Number: 5

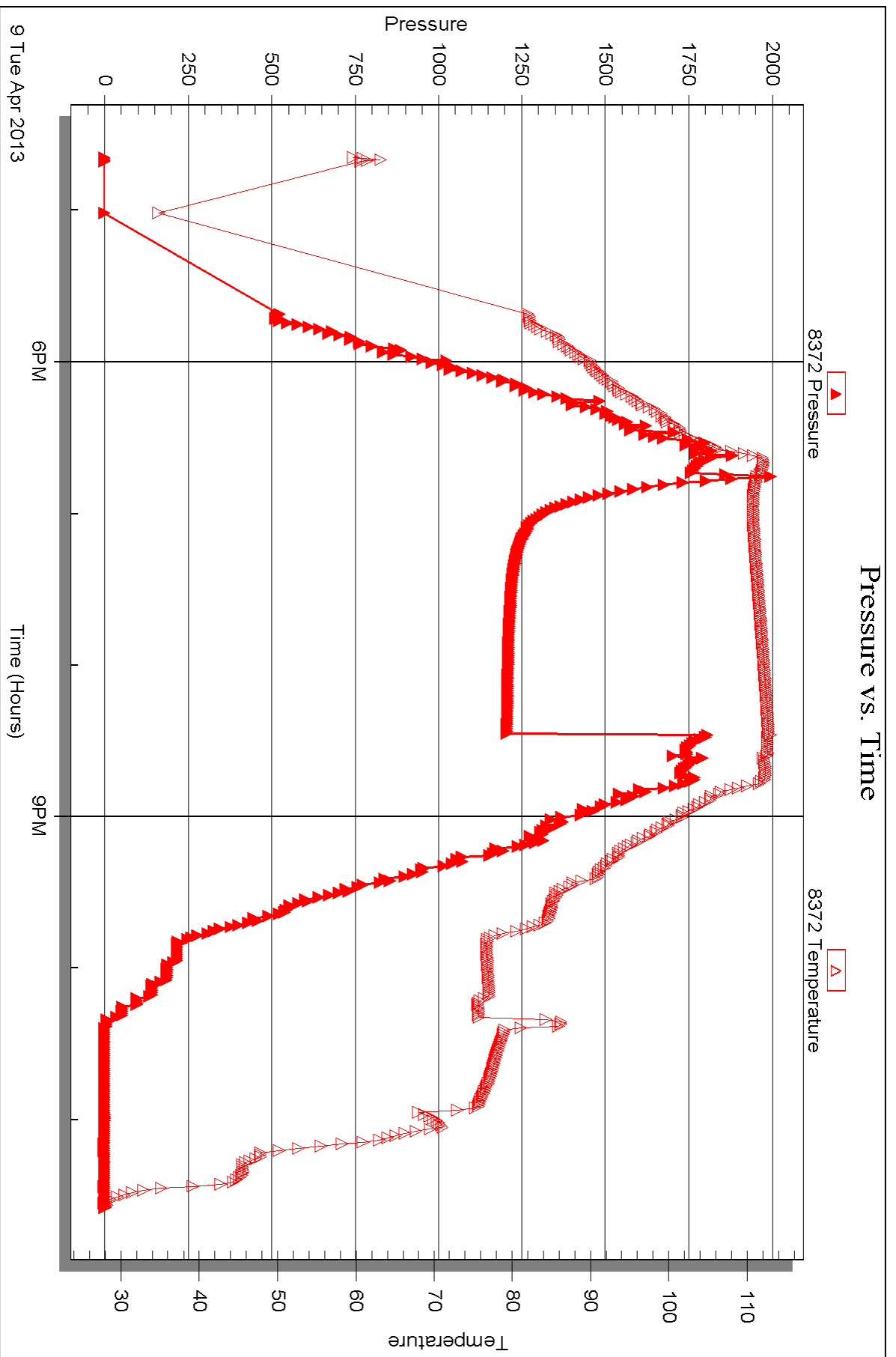


Serial #: 8372

Below (Stratton) Operating

Cleveland #1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 51605

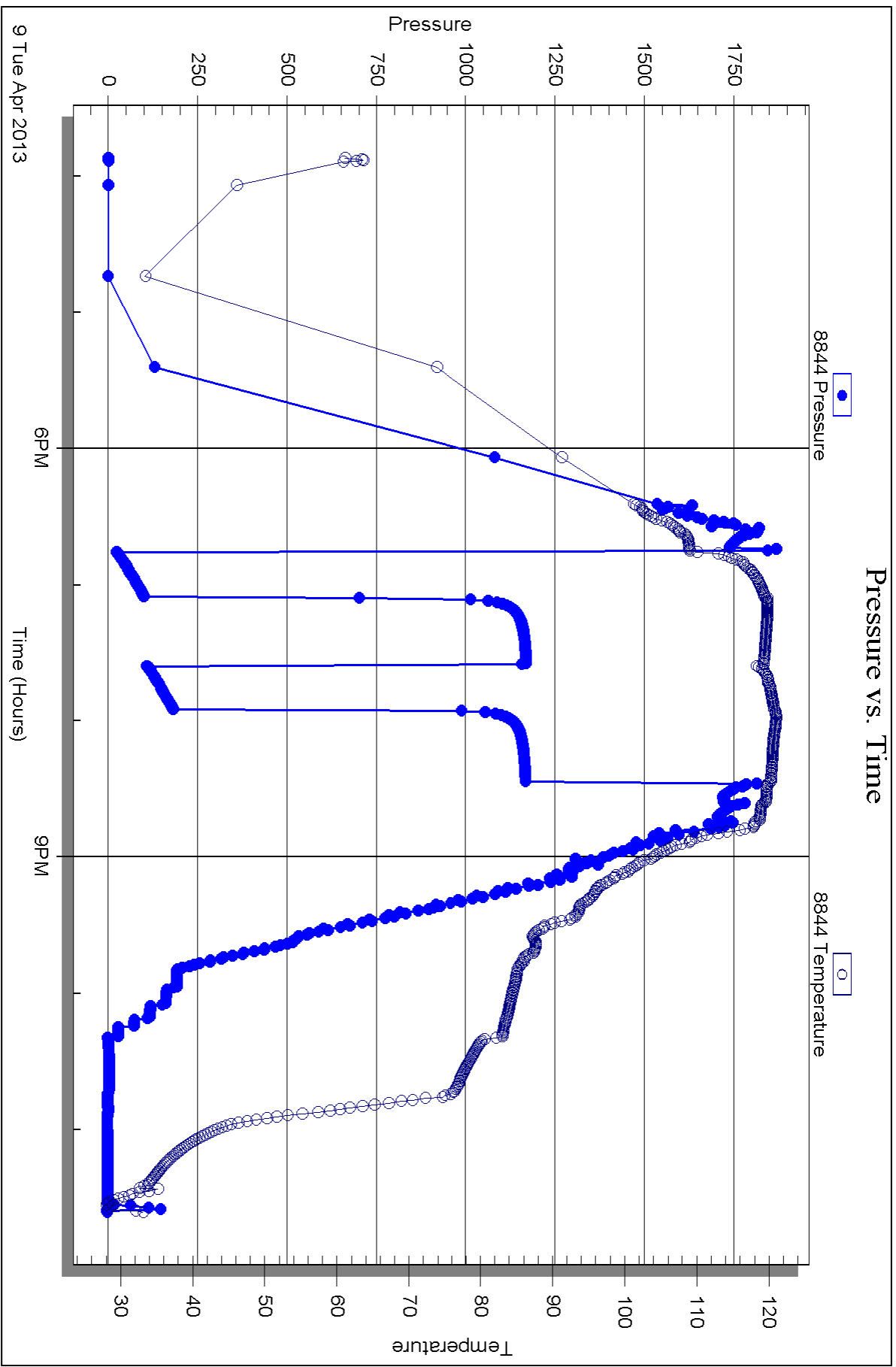
Printed: 2013.04.12 @ 11:49:18

Serial #: 8844

Outside Tomlinson Operating

Cleveland #1

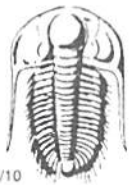
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 51605

Printed: 2013.04.12 @ 11:49:18



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51601

Well Name & No. Cleveland #1 Test No. 1 Date 4-6-13
 Company Tomlinson Operating Elevation 2134 KB ~~2112~~ 2112 GL
 Address 7154 W. State St. Boise, ID 83714
 Co. Rep / Geo. Sid Tomlinson / Bob O'Dell 706-1553 Rig Southwind 70
 Location: Sec. 2 Twp. 12S Rge. 19W Co. Ellis State Ks.

Interval Tested 3378 - 3450 Zone Tested Lansing A-C
 Anchor Length 72' Drill Pipe Run 3380 Mud Wt. 9.1
 Top Packer Depth 3373 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 3378 Wt. Pipe Run 0 WL 7.0
 Total Depth 3450 Chlorides 3000 ppm System LCM
 Blow Description WBBT 5 inches IFP
WBBT 9 inches FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>HOCM</u>	<u>40</u>		<u>60</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

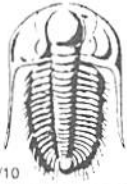
Rec Total 65 BHT 10.5 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1619 Test 1150 T-On Location 1410
 (B) First Initial Flow 25 Jars 250 T-Started 1650
 (C) First Final Flow 38 Safety Joint 75 T-Open 1853
 (D) Initial Shut-In 434 Circ Sub _____ T-Pulled 2208
 (E) Second Initial Flow 35 Hourly Standby _____ T-Out 2350
 (F) Second Final Flow ~~46~~ 47 Mileage 36 RT 55.80 Comments RT 1635
 (G) Final Shut-In 390 Sampler _____
 (H) Final Hydrostatic 1603 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 36 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 60 Extra Copies _____
 Final Shut-In 60 Sub Total 0
 Total 1530.80
 MP/DST Disc't _____
 Sub Total 1530.80

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. 51602

Well Name & No. Cleveland #1 Test No. 2 Date 4-7-13
 Company Tomlinson Operating Elevation 2124 KB 2112 GL
 Address _____
 Co. Rep / Geo. Bob O'Dell Rig Southwind 70
 Location: Sec. 2 Twp. 12S Rge. 19W Co. Ellis State Ks

Interval Tested 3534-3610 Zone Tested Lansing I-K
 Anchor Length 76' Drill Pipe Run 3535 Mud Wt. 9.2
 Top Packer Depth 3529 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 3534 Wt. Pipe Run 0 WL 7.8
 Total Depth 3610 Chlorides 2900 ppm System LCM _____
 Blow Description weak 1/4" Blow throughout IFA
No Blow FFA

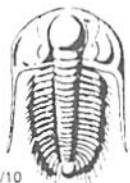
Rec	Feet of	%gas	%oil	%water	%mud
<u>S</u>	<u>OCM</u>	<u>13</u>		<u>87</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total S BHT 107 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1700 Test 1150 T-On Location 1530
 (B) First Initial Flow 18 Jars 250 T-Started 1625
 (C) First Final Flow 20 Safety Joint 75 T-Open 1822
 (D) Initial Shut-In 82 Circ Sub _____ T-Pulled 2023
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 2135
 (F) Second Final Flow 20 Mileage RT 36 55.80 Comments RT 1555
 (G) Final Shut-In 58 Sampler _____
 (H) Final Hydrostatic 1687 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1530.80
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 31 Sub Total 1530.80

Approved By Bob O'Dell Our Representative Jimmy Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51603

Well Name & No. Cleveland #1 Test No. 3 Date 4-8-13
 Company Tomlinson Operating Elevation 2124 KB 2112 GL
 Address 7154 West State St. Boise, ID 83714
 Co. Rep / Geo. Bob O'Dell Rig Southwind #70
 Location: Sec. 2 Twp. 12 S Rge. 19 W Co. Ellis State Ks.

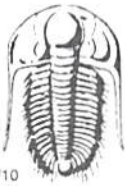
Interval Tested 3662 - 3674 Zone Tested Arbuckle
 Anchor Length 12' Drill Pipe Run 3658 Mud Wt. 9.1
 Top Packer Depth 3657 Drill Collars Run 0 Vis 47
 Bottom Packer Depth 3662 Wt. Pipe Run 0 WL 7.8
 Total Depth 3674 Chlorides 2900 ppm System LCM
 Blow Description Weak 1/4" blow throughout IFP
No blow FFP

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>0</u>					
Rec					
Rec					
Rec					
Rec					

Rec Total 0 BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1769</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>0645</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>0740</u>
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1058</u>
(D) Initial Shut-In <u>27</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1258</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby <u>None</u>	T-Out <u>1400</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>RT 36</u> 55.80	Comments <u>RT 0726</u>
(G) Final Shut-In <u>29</u>	<input type="checkbox"/> Sampler	<div style="border: 1px solid red; padding: 2px;">Started in 8:00 no record 18:45 Started out 9:00 Headed in 10:00</div>
(H) Final Hydrostatic <u>1750</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer <u>10:55</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer rig time
Initial Shut-In <u>30</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>30</u>	<input type="checkbox"/> Day Standby	Total <u>1530.80</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1530.80</u>	

Approved By _____ Our Representative Jimmy Rickels
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51604

4/10

Well Name & No. Cleaveland #1 Test No. 4 Date 4-8-13
 Company Tomlinson Operating Elevation 2124 KB 2112 GL
 Address 7154 West State St. Boise ID 83714
 Co. Rep / Geo. Bob O'Dell Rig Southwind #70
 Location: Sec. 2 Twp. 12S Rge. 19W Co. Ellis State KS.

Interval Tested 3661 - 3684 Zone Tested Arbuckle
 Anchor Length 23' Drill Pipe Run ~~3659~~ 3659 Mud Wt. 8.8
 Top Packer Depth 3656 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 3661 Wt. Pipe Run 0 WL 7.4
 Total Depth 3684 Chlorides 4000 ppm System LCM
 Blow Description weak 1/4" Blow throughout IFA
weak 1/4" Blow throughout IFA

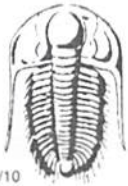
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Clean Oil</u>	<u>100</u>			
<u>4</u>	<u>OCM</u>	<u>15</u>		<u>85</u>	

Rec Total 5 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1753 Test 1150 T-On Location 1925
 (B) First Initial Flow 17 Jars 250 T-Started 2010
 (C) First Final Flow 16 Safety Joint 75 T-Open 2158
 (D) Initial Shut-In 818 Circ Sub _____ T-Pulled 2359
 (E) Second Initial Flow 16 Hourly Standby _____ T-Out 0130
 (F) Second Final Flow 17 Mileage RT 36 55.80 Comments RT 1956
 (G) Final Shut-In 789 Sampler _____
 (H) Final Hydrostatic 1738 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1530.80
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 31 Sub Total 1530.80

Approved By Bob O'Dell Our Representative Jimmy Ricketts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51605

4/10

Well Name & No. Cleveland #1 Test No. S Date 4-9-13
 Company Tomlinson Operating Elevation 2124 KB 2112 GL
 Address 7154 West State Street Boise, ID 83714
 Co. Rep / Geo. Bob O'Dell Rig Southwing #70
 Location: Sec. 2 Twp. 12S Rge. 19W Co. Ellis State KS.

Interval Tested 3680-3691 Zone Tested Arbuckle
 Anchor Length 11' 58' Tailpipe Drill Pipe Run 3690 Mud Wt. 9.2
 Top Packer Depth 3680 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 3691 Wt. Pipe Run 0 WL 7.8
 Total Depth 3749 Chlorides 4000 ppm System LCM
 Blow Description Weak blow building to Strong Blow 11 min into IFP
weak blow building to Strong Blow (BoB) 13 min into FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>clean oil</u>	<u>100</u>			
<u>379</u>	<u>Mud cut water</u>		<u>84</u>	<u>16</u>	

Rec Total 380 BHT 118 Gravity _____ API RW _____ @ _____ °F Chlorides 24000 ppm

(A) Initial Hydrostatic 1741 Test 1150 T-On Location 1408
 (B) First Initial Flow 26 Jars 250 T-Started 1645
 (C) First Final Flow 104 Safety Joint 75 T-Open 1845
 (D) Initial Shut-In 1174 Circ Sub _____ T-Pulled 2027
 (E) Second Initial Flow 109 Hourly Standby _____ T-Out 2230
 (F) Second Final Flow 184 Mileage RT 36 55.80 Comments RT Top 1552
 (G) Final Shut-In 1172 Sampler _____ BTM 1639
 (H) Final Hydrostatic 1722 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 2130.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2130.80

Initial Open 20
 Initial Shut-In 30
 Final Flow 20
 Final Shut-In 32

Approved By Bob O'Dell Our Representative Jimmy Dickette

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