



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Terry McLeod

LMB "A" #1-1

1-2s-28w Decatur,KS

Start Date: 2013.04.15 @ 18:54:00

End Date: 2013.04.16 @ 02:33:00

Job Ticket #: 52174 DST #: 1

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

Printed: 2013.04.23 @ 09:59:11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52174

DST#: 1

ATTN: Terry McLeod

Test Start: 2013.04.15 @ 18:54:00

GENERAL INFORMATION:

Formation: **Tor - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:41:00

Time Test Ended: 02:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 66

Interval: 3367.00 ft (KB) To 3460.00 ft (KB) (TVD)

Reference Elevations: 2556.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

2553.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 3.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 151.53 psig @ 3437.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.15

End Date:

2013.04.16

Last Calib.:

2013.04.16

Start Time: 19:04:00

End Time:

02:33:00

Time On Btm:

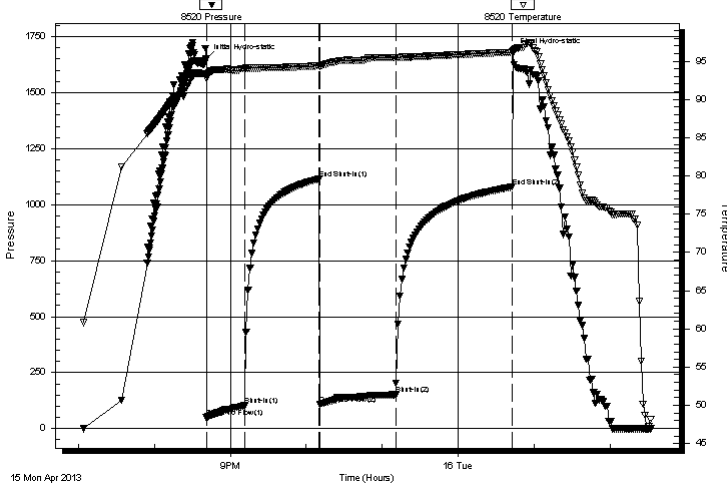
2013.04.15 @ 20:40:50

Time Off Btm:

2013.04.16 @ 00:43:30

TEST COMMENT: 30 - IF- 4" blow
60 - IS- No return
60 - FF- 1" blow
90 - FS- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.16	93.36	Initial Hydro-static
1	48.46	92.77	Open To Flow (1)
31	102.53	94.05	Shut-In(1)
90	1114.61	94.39	End Shut-In(1)
90	108.44	94.27	Open To Flow (2)
150	151.53	95.49	Shut-In(2)
242	1078.66	96.18	End Shut-In(2)
243	1676.86	96.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
226.00	Mud, show of oil, 100%M	1.48

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52174

DST#: 1

ATTN: Terry McLeod

Test Start: 2013.04.15 @ 18:54:00

Tool Information

Drill Pipe:	Length: 3180.00 ft	Diameter: 3.80 inches	Volume: 44.61 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 45.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3367.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	116.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3345.00	
Shut In Tool	5.00			3350.00	
Hydraulic tool	5.00			3355.00	
Safety Joint	3.00			3358.00	
Packer	5.00			3363.00	23.00 Bottom Of Top Packer
Packer	4.00			3367.00	
Stubb	1.00			3368.00	
Perforations	5.00			3373.00	
Change Over Sub	1.00			3374.00	
Drill Pipe	62.00			3436.00	
Change Over Sub	1.00			3437.00	
Recorder	0.00	8354	Inside	3437.00	
Recorder	0.00	8520	Outside	3437.00	
Perforations	20.00			3457.00	
Bullnose	3.00			3460.00	93.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52174

DST#: 1

ATTN: Terry McLeod

Test Start: 2013.04.15 @ 18:54:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
226.00	Mud, show of oil, 100%M	1.476

Total Length: 226.00 ft Total Volume: 1.476 bbl

Num Fluid Samples: 0

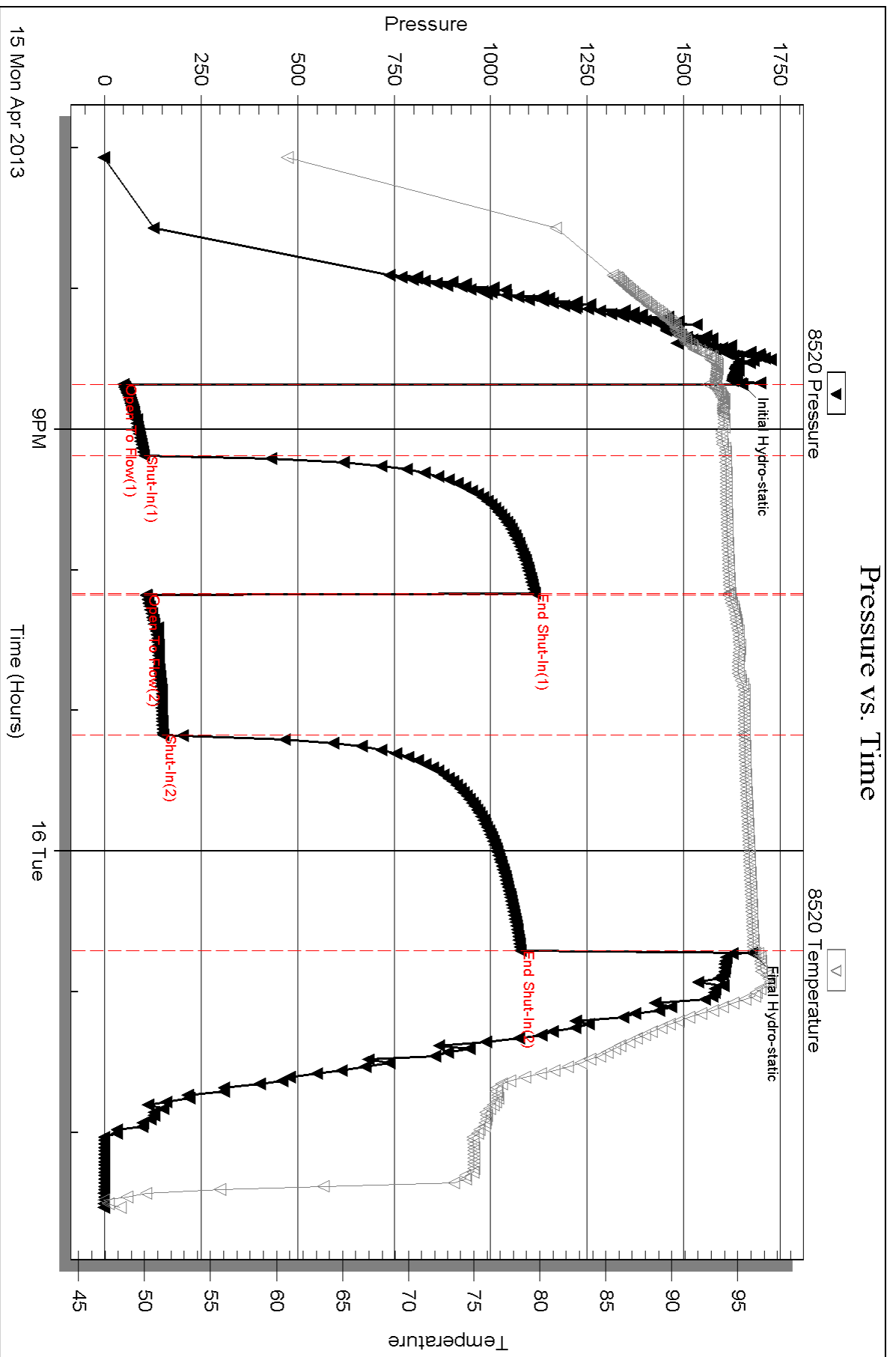
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



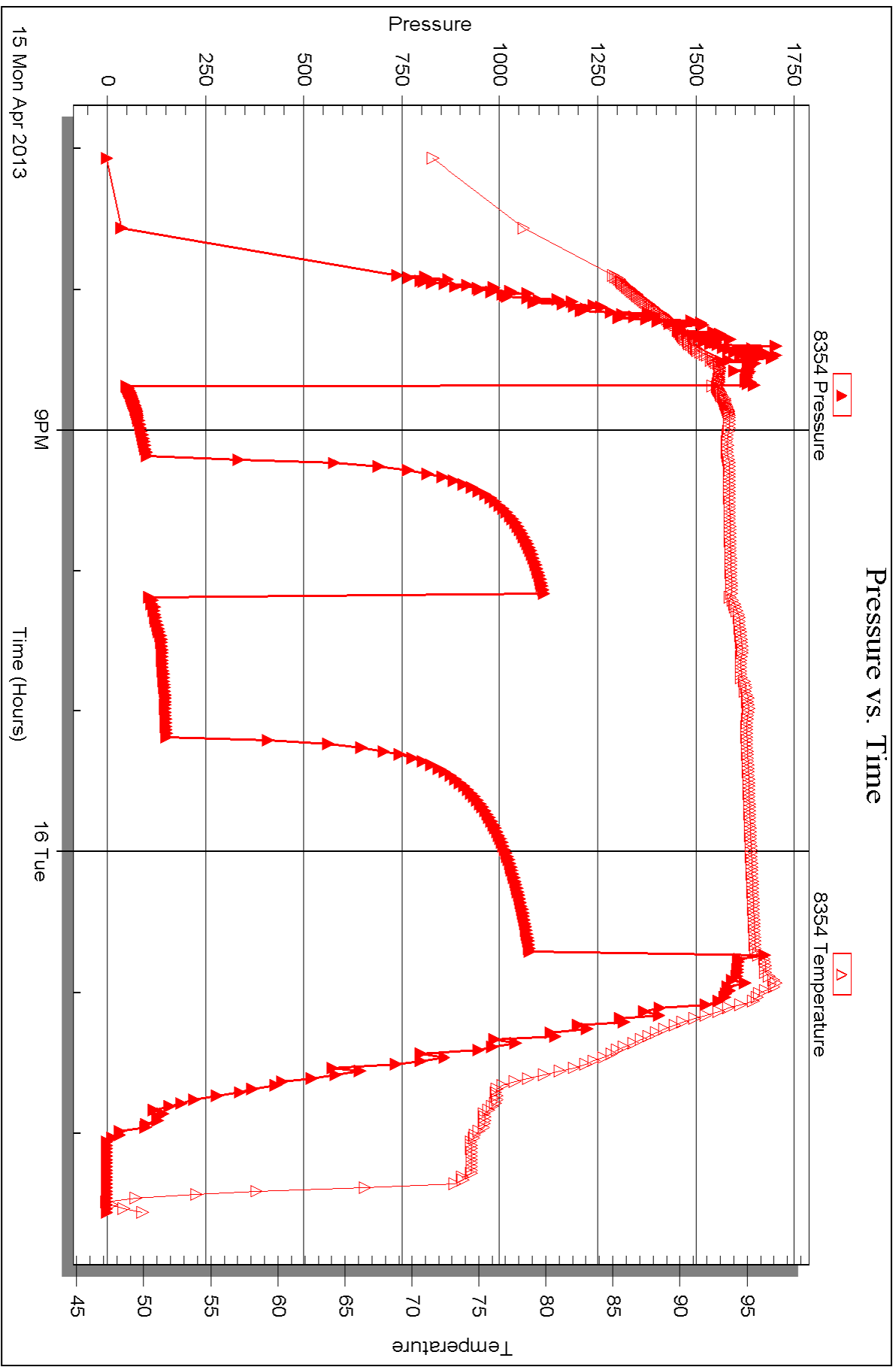
Serial #: 8354

Inside

Cobalt Energy LLC

LMB "A" #1-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Terry McLeod

LMB "A" #1-1

1-2s-28w Decatur,KS

Start Date: 2013.04.16 @ 08:31:00

End Date: 2013.04.16 @ 16:56:00

Job Ticket #: 52175 DST #: 2

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

Printed: 2013.04.23 @ 09:58:28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52175

DST#: 2

ATTN: Terry McLeod

Test Start: 2013.04.16 @ 08:31:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:30

Time Test Ended: 16:56:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 66

Interval: 3462.00 ft (KB) To 3507.00 ft (KB) (TVD)

Reference Elevations: 2556.00 ft (KB)

Total Depth: 3507.00 ft (KB) (TVD)

2553.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 3.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 61.68 psig @ 3504.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.16

End Date:

2013.04.16

Last Calib.:

2013.04.16

Start Time: 08:41:00

End Time:

16:56:00

Time On Btm:

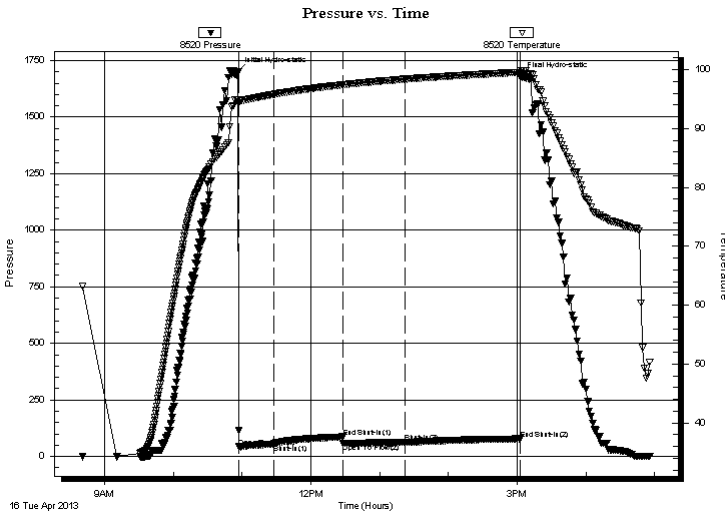
2013.04.16 @ 10:56:30

Time Off Btm:

2013.04.16 @ 15:03:00

TEST COMMENT: 30 - IF- 2 1/4" blow
60 - IS- No return
60 - FF- 1/4" blow
90 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.86	94.89	Initial Hydro-static
1	42.38	94.84	Open To Flow (1)
31	54.68	95.80	Shut-In(1)
91	86.76	97.42	End Shut-In(1)
92	57.35	97.43	Open To Flow (2)
146	61.68	98.38	Shut-In(2)
246	77.80	99.54	End Shut-In(2)
247	1679.33	99.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM, 40%O, 60%M	0.30
4.00	Free Oil	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52175

DST#: 2

ATTN: Terry McLeod

Test Start: 2013.04.16 @ 08:31:00

Tool Information

Drill Pipe:	Length: 3264.00 ft	Diameter: 3.80 inches	Volume: 45.79 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	56000.00 lb
			<u>Total Volume: 46.70 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3462.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	68.00 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			3440.00	
Shut In Tool	5.00			3445.00	
Hydraulic tool	5.00			3450.00	
Safety Joint	3.00			3453.00	
Packer	5.00			3458.00	23.00 Bottom Of Top Packer
Packer	4.00			3462.00	
Stubb	1.00			3463.00	
Perforations	5.00			3468.00	
Change Over Sub	1.00			3469.00	
Drill Pipe	31.00			3500.00	
Change Over Sub	1.00			3501.00	
Perforations	3.00			3504.00	
Recorder	0.00	8354	Inside	3504.00	
Recorder	0.00	8520	Outside	3504.00	
Bullnose	3.00			3507.00	45.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52175

DST#: 2

ATTN: Terry McLeod

Test Start: 2013.04.16 @ 08:31:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	HOCM, 40%O, 60%M	0.295
4.00	Free Oil	0.020

Total Length: 64.00 ft Total Volume: 0.315 bbl

Num Fluid Samples: 0

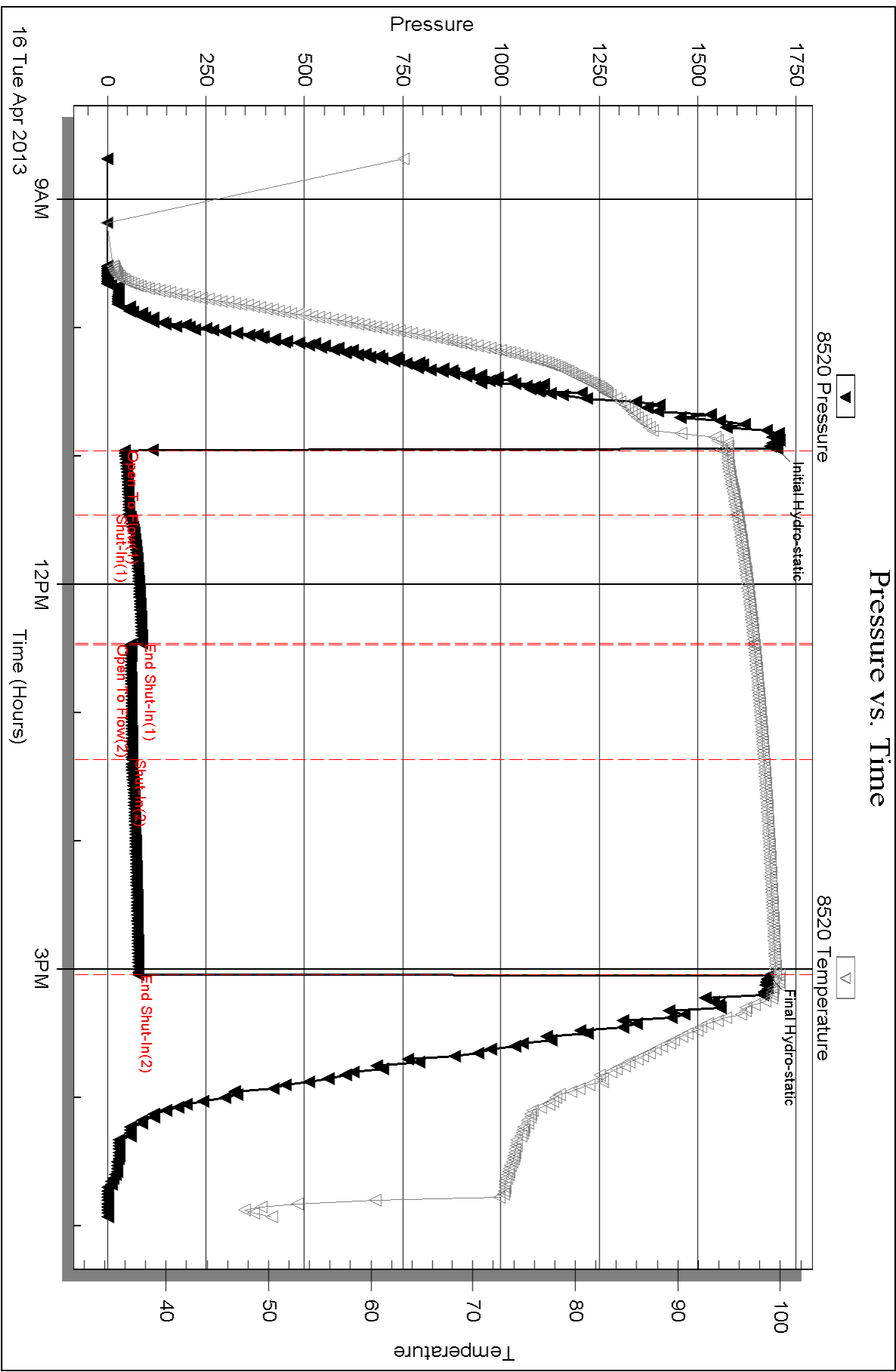
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



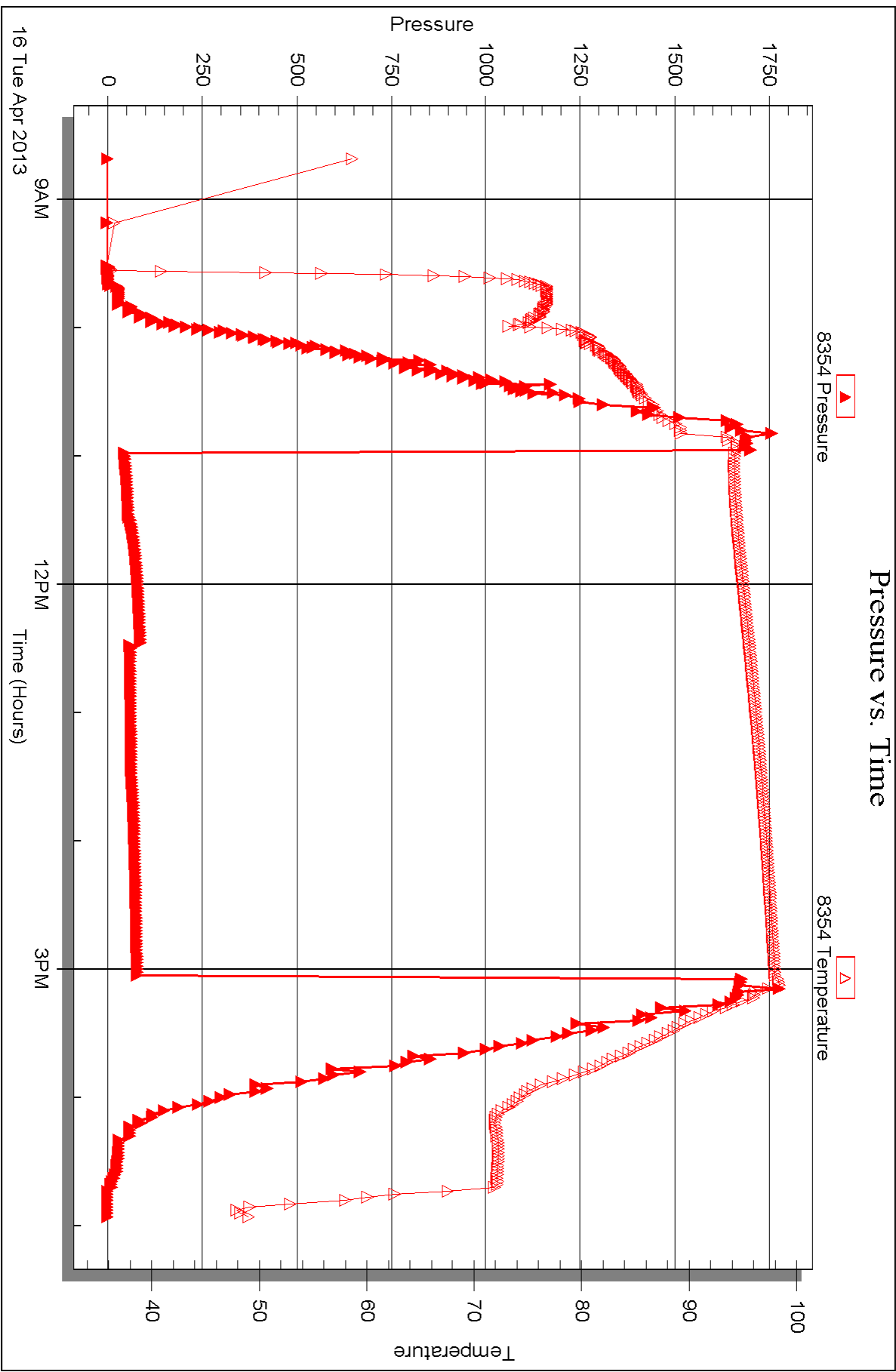
Serial #: 8354

Inside

Cobalt Energy LLC

LMB "A" #1-1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Terry McLeod

LMB "A" #1-1

1-2s-28w Decatur,KS

Start Date: 2013.04.17 @ 00:58:00

End Date: 2013.04.17 @ 07:39:30

Job Ticket #: 52176 DST #: 3

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

Printed: 2013.04.23 @ 09:57:51



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52176

DST#: 3

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 00:58:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:29:30

Time Test Ended: 07:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 66

Interval: 3506.00 ft (KB) To 3575.00 ft (KB) (TVD)

Reference Elevations: 2556.00 ft (KB)

Total Depth: 3575.00 ft (KB) (TVD)

2553.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 3.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 73.93 psig @ 3572.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.17

End Date:

2013.04.17

Last Calib.:

2013.04.17

Start Time: 01:08:00

End Time:

07:39:30

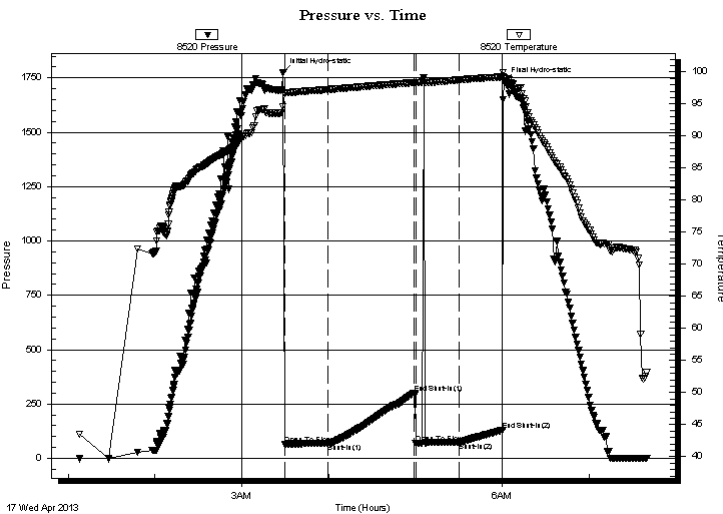
Time On Btm:

2013.04.17 @ 03:28:30

Time Off Btm:

2013.04.17 @ 06:01:00

TEST COMMENT: 30 - IF- 1/4" blow , died in 8 Minutes
60 - IS- No return
30 - FF- Surged and died. Waited for 5 Min. flushed tool, surged and died
30 - FS- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1775.43	94.62	Initial Hydro-static
1	64.49	96.62	Open To Flow (1)
31	68.45	97.26	Shut-In(1)
91	300.65	98.34	End Shut-In(1)
92	70.13	98.34	Open To Flow (2)
122	73.93	98.77	Shut-In(2)
152	129.78	99.24	End Shut-In(2)
153	1731.95	99.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud, with little show of oil, 100%M	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52176

DST#: 3

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 00:58:00

Tool Information

Drill Pipe:	Length: 3316.00 ft	Diameter: 3.80 inches	Volume: 46.51 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 47.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3506.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	92.00 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			3484.00	
Shut In Tool	5.00			3489.00	
Hydraulic tool	5.00			3494.00	
Safety Joint	3.00			3497.00	
Packer	5.00			3502.00	23.00 Bottom Of Top Packer
Packer	4.00			3506.00	
Stubb	1.00			3507.00	
Perforations	1.00			3508.00	
Change Over Sub	1.00			3509.00	
Drill Pipe	62.00			3571.00	
Change Over Sub	1.00			3572.00	
Recorder	0.00	8354	Inside	3572.00	
Recorder	0.00	8520	Outside	3572.00	
Bullnose	3.00			3575.00	69.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-2s-28w Decatur,KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52176

DST#: 3

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 00:58:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	Mud, with little show of oil, 100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

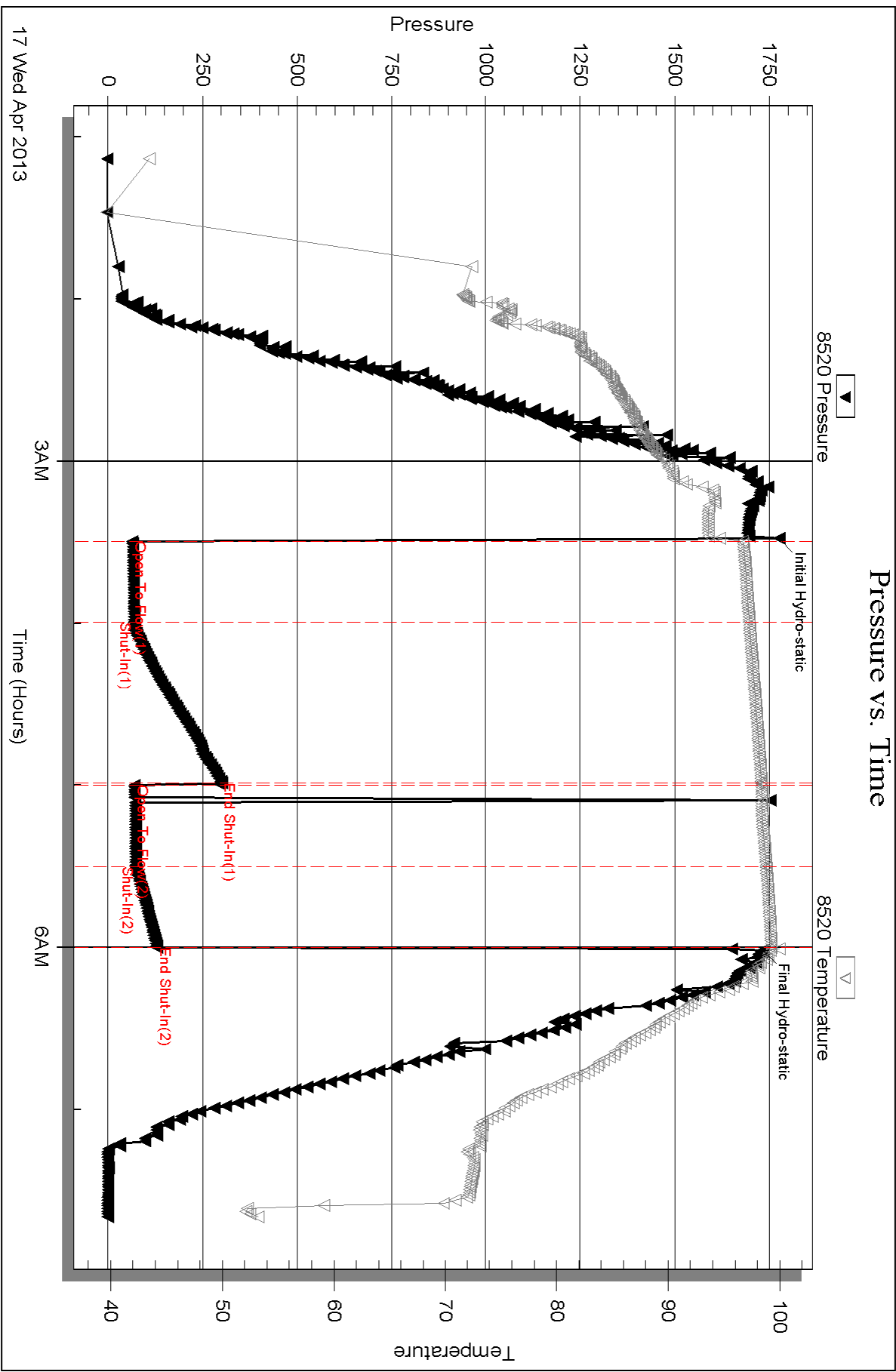
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



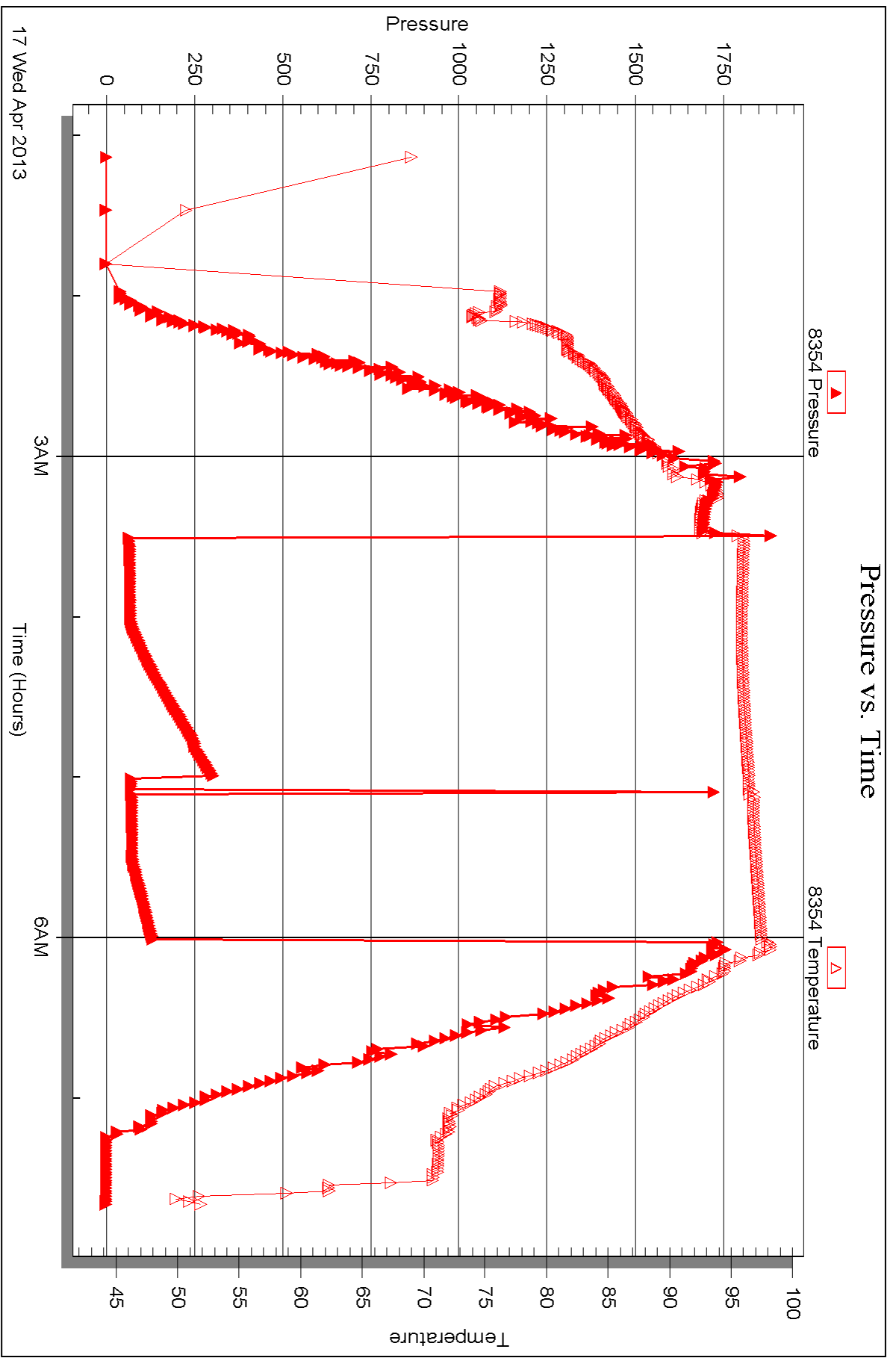
Serial #: 8354

Inside

Cobalt Energy LLC

LMB "A" #1-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 52176

Printed: 2013.04.23 @ 09:57:55



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Terry McLeod

LMB "A" #1-1

1-2s-28w Decatur,KS

Start Date: 2013.04.17 @ 13:54:00

End Date: 2013.04.17 @ 20:23:00

Job Ticket #: 52177 DST #: 4

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

Printed: 2013.04.23 @ 09:57:06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52177

DST#: 4

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 13:54:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:08:30

Time Test Ended: 20:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 66

Interval: 3572.00 ft (KB) To 3610.00 ft (KB) (TVD)

Reference Elevations: 2556.00 ft (KB)

Total Depth: 3610.00 ft (KB) (TVD)

2553.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 3.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 95.03 psig @ 3607.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.17

End Date:

2013.04.17

Last Calib.:

2013.04.17

Start Time: 14:04:00

End Time:

20:23:00

Time On Btm:

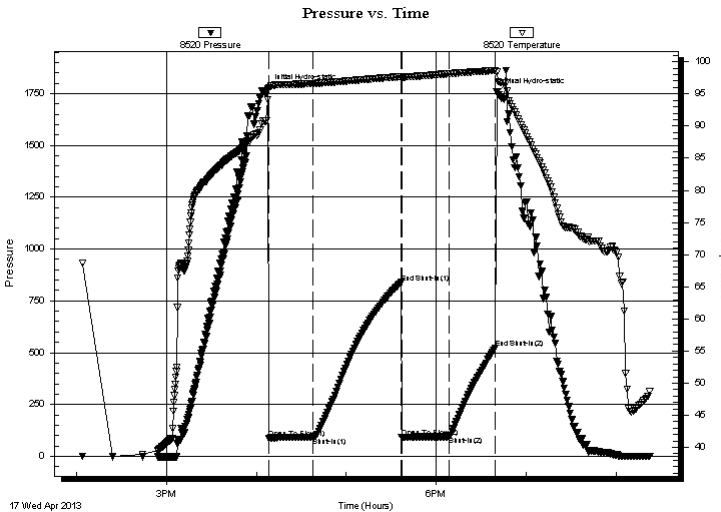
2013.04.17 @ 16:07:30

Time Off Btm:

2013.04.17 @ 18:40:30

TEST COMMENT: 30 - IF- 4.5" blow in 13 Min. died back to 3"
60 - IS- No return
30 - FF- Surged and died
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1772.40	94.07	Initial Hydro-static
1	88.96	95.97	Open To Flow (1)
31	92.47	96.61	Shut-In(1)
89	837.97	97.68	End Shut-In(1)
90	92.48	97.29	Open To Flow (2)
121	95.03	98.14	Shut-In(2)
152	521.64	98.65	End Shut-In(2)
153	1756.15	98.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud, with show of oil, 100%M	0.59

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52177

DST#: 4

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 13:54:00

Tool Information

Drill Pipe:	Length: 3380.00 ft	Diameter: 3.80 inches	Volume: 47.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 48.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3572.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	61.00 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			3550.00	
Shut In Tool	5.00			3555.00	
Hydraulic tool	5.00			3560.00	
Safety Joint	3.00			3563.00	
Packer	5.00			3568.00	23.00 Bottom Of Top Packer
Packer	4.00			3572.00	
Stubb	1.00			3573.00	
Perforations	1.00			3574.00	
Change Over Sub	1.00			3575.00	
Drill Pipe	31.00			3606.00	
Change Over Sub	1.00			3607.00	
Recorder	0.00	8354	Inside	3607.00	
Recorder	0.00	8520	Outside	3607.00	
Bullnose	3.00			3610.00	38.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-2s-28w Decatur,KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52177

DST#: 4

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 13:54:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud, with show of oil, 100%M	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

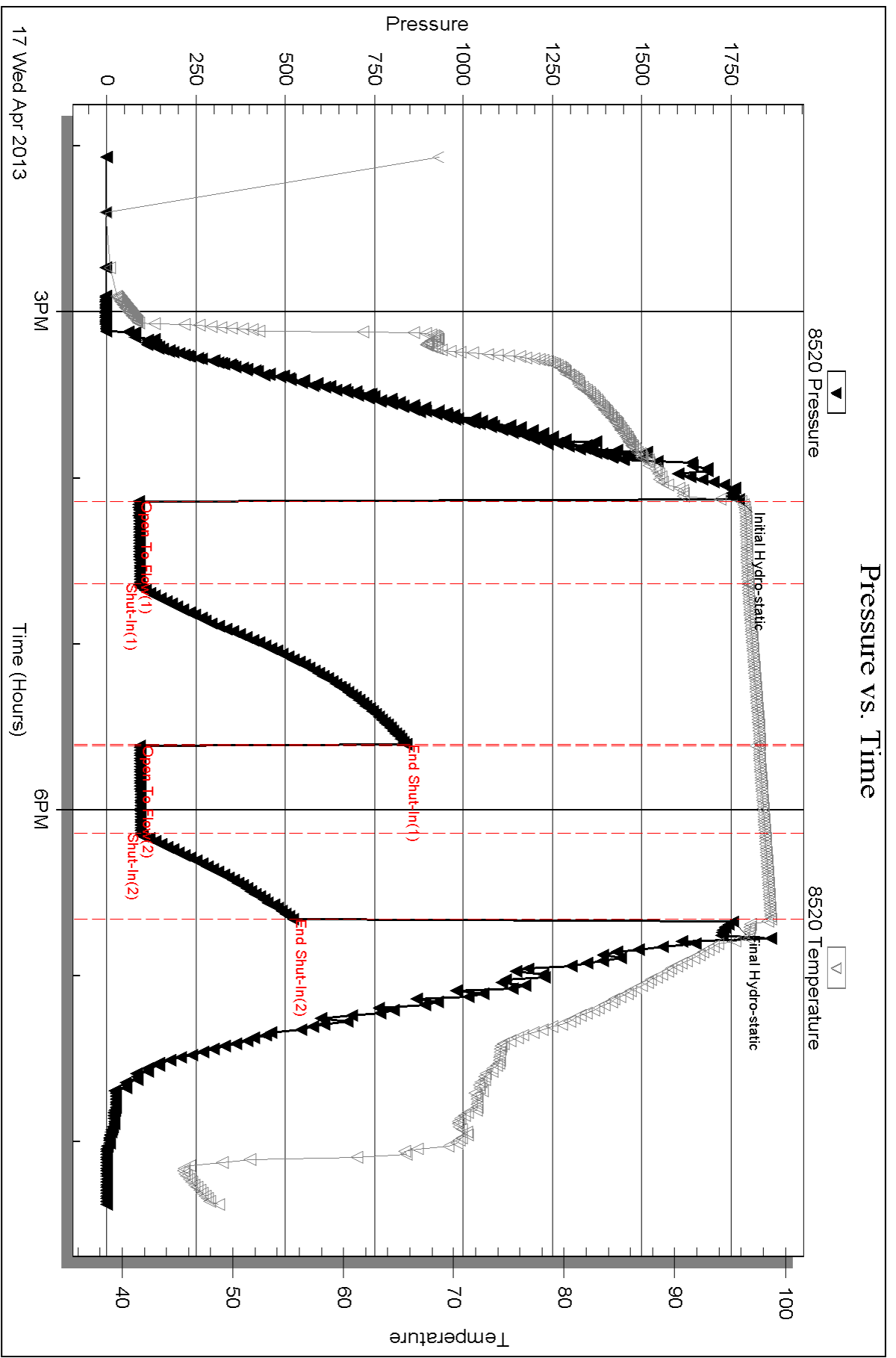
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



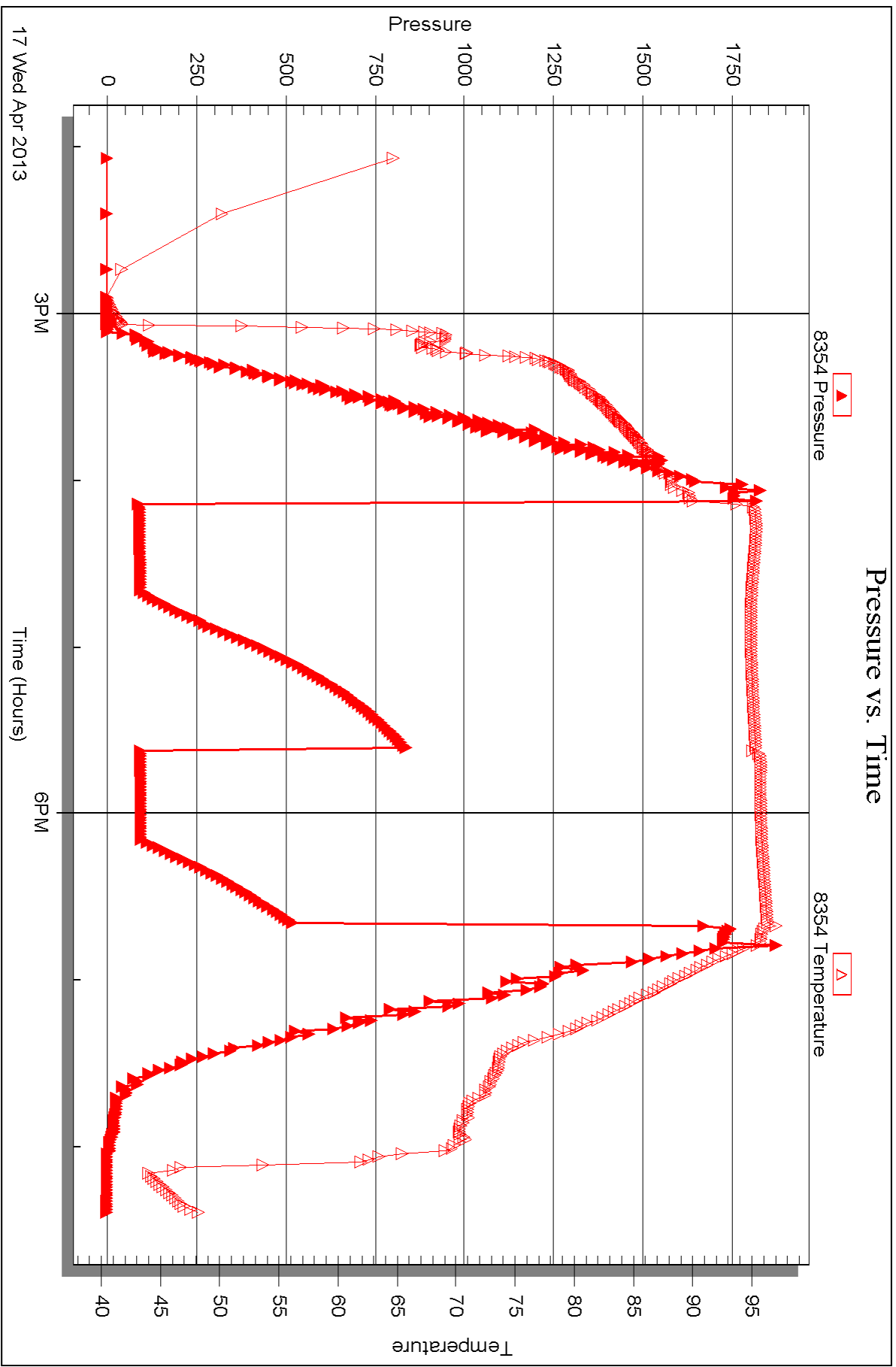
Serial #: 8354

Inside

Cobalt Energy LLC

LMB "A" #1-1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52174

Well Name & No. LMB "A" 1-1 Test No. 1 Date 4-15-13
 Company Cobalt Energy LLC Elevation 2556 KB 2553 GL
 Address 115 S. Belmont #12, Wichita KS, 67208
 Co. Rep / Geo. Terry Rig Murfin 8
 Location: Sec. 1 Twp. 25 Rge. 28W Co. Decatur State KS

Interval Tested 3367 - 3460 Zone Tested Top - D
 Anchor Length 93' Drill Pipe Run 3180' Mud Wt. 8.9
 Top Packer Depth 3362 Drill Collars Run 186 Vis 55
 Bottom Packer Depth 3367 Wt. Pipe Run — WL 6.4
 Total Depth 3460 Chlorides 400 ppm System LCM —

Blow Description IF - 4" blow
ISI - No return
FF - 1" blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>226</u>	<u>Mud with show of oil</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

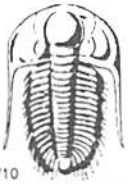
Rec Total 226 BHT 96° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 1652 Test 1150 T-On Location 5:13pm
 (B) First Initial Flow 48 Jars _____ T-Started 6:54pm
 (C) First Final Flow 102 Safety Joint 75 T-Open 8:40pm
 (D) Initial Shut-In 1114 Circ Sub _____ T-Pulled 12:40 am
 (E) Second Initial Flow 108 Hourly Standby _____ T-Out 2:31 am
 (F) Second Final Flow 151 Mileage 138 @ X2 276RT Comments _____
 (G) Final Shut-In 1078 Sampler _____
 (H) Final Hydrostatic 1676 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1265.30
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 1265.30

Approved By _____ Our Representative Cody Bledsoe

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. 52175

Well Name & No. LMB "A" 1-1 Test No. 2 Date 4-16-13
 Company Cobalt Energy LLC Elevation 2556 KB 2553 GL
 Address 115 S. Belmont #12, Wichita KS, 67208
 Co. Rep / Geo. Terry McLeod Rig Murfin #8
 Location: Sec. 1 Twp. 2s Rge. 28W Co. Decatur State KS

Interval Tested 3462 - 3507 Zone Tested _____
 Anchor Length 45' Drill Pipe Run 3264' Mud Wt. 8.9
 Top Packer Depth 3457 Drill Collars Run 186' Vis 55
 Bottom Packer Depth 3462 Wt. Pipe Run - WL 6.4
 Total Depth 3507 Chlorides 400 ppm System LCM _____
 Blow Description IF - 2 1/4" blow
ISI - No return
FF - 1/4" blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>HOCM</u>	<u>40</u>		<u>60</u>	
<u>4</u>	<u>Free oil</u>				

Rec Total 64' BHT 99° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1700</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>8:09am</u>
(B) First Initial Flow <u>42</u>	<input type="checkbox"/> Jars _____	T-Started <u>8:31am</u>
(C) First Final Flow <u>54</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:57am</u>
(D) Initial Shut-In <u>86</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>3:00 pm</u>
(E) Second Initial Flow <u>57</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:55 pm</u>
(F) Second Final Flow <u>61</u>	<input checked="" type="checkbox"/> Mileage <u>276 RT</u> 40.30	Comments _____
(G) Final Shut-In <u>77</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1679</u>	<input type="checkbox"/> Straddle _____	<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>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1265.30</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1265.30</u>	

Approved By _____ Our Representative Cody Block

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52176

Well Name & No. LMB "A" 1-1 Test No. 3 Date 4-17-13
 Company Cobalt Energy LLC Elevation 2556 KB 2553 GL
 Address _____
 Co. Rep / Geo. Terry Rig Murfin 8
 Location: Sec. 1 Twp. 25 Rge. 28w Co. Decatur State KS

Interval Tested 3506 - 3575 Zone Tested _____
 Anchor Length 69' Drill Pipe Run 3316' Mud Wt. 8.9
 Top Packer Depth 3501 Drill Collars Run 186 Vis 55
 Bottom Packer Depth 3506 Wt. Pipe Run — WL 6.4
 Total Depth 3575 Chlorides 400 ppm System LCM —
 Blow Description IF - 1/4" blow, died in 8 Min.
ISI - No return
FF - surged, died, flushed tool after 5 min. Surged & died
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud, with little oil show</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT 990 Gravity — API RW — @ — ° F Chlorides — ppm
 (A) Initial Hydrostatic 1775 Test 1150 T-On Location 12:30am
 (B) First Initial Flow 64 Jars _____ T-Started 12:58am
 (C) First Final Flow 68 Safety Joint 75 T-Open 3:30am
 (D) Initial Shut-In 300 Circ Sub _____ T-Pulled 6:00am
 (E) Second Initial Flow 70 Hourly Standby _____ T-Out 7:40am
 (F) Second Final Flow 73 Mileage 276 RT 40.30 Comments _____
 (G) Final Shut-In 129 Sampler _____
 (H) Final Hydrostatic 1731 Straddle _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Shale Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 30 Extra Recorder _____
 Sub Total 0
 Total 1265.30
 MP/DST Disc't _____
 Sub Total 1265.30

Approved By _____ Our Representative Cody Black
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52177

Well Name & No. LMB "A" 1-1 Test No. 4 Date 4-17-13
 Company Cobalt Energy LLC Elevation 2556 KB 2553 GL
 Address 115 S. Belmont #12, Wichita KS, 67208
 Co. Rep / Geo. Terry Rig Murfin 8
 Location: Sec. 1 Twp. 2s Rge. 28w Co. Decatur State KS

Interval Tested 3572 - 3610 Zone Tested _____
 Anchor Length 38' Drill Pipe Run 3380' Mud Wt. 9.1
 Top Packer Depth 3577 Drill Collars Run 186' Vis 57
 Bottom Packer Depth 3572 Wt. Pipe Run _____ WL 7.2
 Total Depth _____ Chlorides 900 ppm System LCM _____

Blow Description IF - 4.5" blow in 13 Min. Died back to 3" blow
ISI - No return
FF - Surged & died
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Mud, with oil show</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 120 BHT 98° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1772 Test 1150 T-On Location 1:38pm
 (B) First Initial Flow 88 Jars _____ T-Started 1:54pm
 (C) First Final Flow 92 Safety Joint 75 T-Open 4:10pm
 (D) Initial Shut-In 837 Circ Sub _____ T-Pulled 6:40pm
 (E) Second Initial Flow 92 Hourly Standby _____ T-Out 8:24pm
 (F) Second Final Flow 95 Mileage 276 RT 40.30 Comments _____
 (G) Final Shut-In 521 Sampler _____
 (H) Final Hydrostatic 1756 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 30
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1265.30
 Total 1265.30
 MP/DST Disc't _____

Approved By _____ Our Representative Cody Bloodorn

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