



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC.**

PO Box 8037
Wichita KS 67208

ATTN: Rocky Milford

Critchfield A #1-32

32-9s-24w Graham,KS

Start Date: 2013.01.25 @ 16:27:05

End Date: 2013.01.25 @ 23:50:20

Job Ticket #: 51459 DST #: 1

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

Printed: 2013.02.05 @ 11:21:27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC.

32-9s-24w Graham,KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51459

DST#: 1

ATTN: Rocky Milford

Test Start: 2013.01.25 @ 16:27:05

GENERAL INFORMATION:

Formation: **Lans. "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:55:50

Time Test Ended: 23:50:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 39

Interval: 3895.00 ft (KB) To 3935.00 ft (KB) (TVD)

Reference Elevations: 2531.00 ft (KB)

Total Depth: 3935.00 ft (KB) (TVD)

2526.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @ RunDepth: 34.93 psig @ 3899.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.25 End Date: 2013.01.25

Last Calib.: 2013.01.25

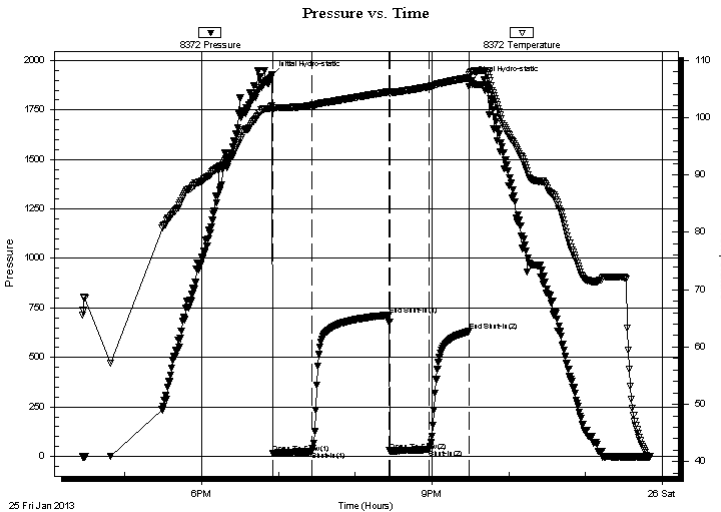
Start Time: 16:27:05 End Time: 23:50:20

Time On Btm: 2013.01.25 @ 18:54:50

Time Off Btm: 2013.01.25 @ 21:30:50

TEST COMMENT: IF:(30min) Very Weak surface blow
IS:(60min) No Return
FF:(30min) No Blow
FS:(30min) No Return

PRESSURE SUMMARY



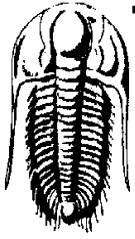
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1924.82	102.07	Initial Hydro-static
1	14.97	101.18	Open To Flow (1)
32	24.77	102.08	Shut-In(1)
92	714.22	104.51	End Shut-In(1)
92	27.42	104.22	Open To Flow (2)
123	34.93	105.38	Shut-In(2)
154	631.61	106.94	End Shut-In(2)
156	1897.30	108.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

Gas Rates

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



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DST#: 1

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Tester: Andy Carreira

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Total Depth: 3935.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2531.00 ft (KB)

2526.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8844

Inside

Press @ RunDepth: psig @ 3899.00 ft (KB)

Start Date: 2013.01.25

End Date:

2013.01.25

Start Time: 16:27:05

End Time:

23:49:59

Capacity: 8000.00 psig

Last Calib.:

2013.01.26

Time On Btm:

Time Off Btm:

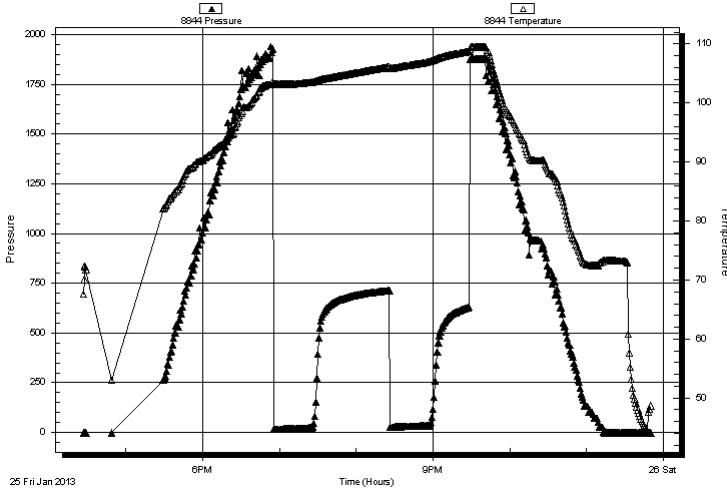
TEST COMMENT: IF:(30min) Very Weak surface blow

IS:(60min) No Return

FF:(30min) No Blow

FS:(30min) No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC.

32-9s-24w Graham,KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51459

DST#: 1

ATTN: Rocky Milford

Test Start: 2013.01.25 @ 16:27:05

Tool Information

Drill Pipe:	Length: 3694.00 ft	Diameter: 3.80 inches	Volume: 51.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 186.13 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 52.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.13 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3895.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 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			3873.00	
Shut In Tool	5.00			3878.00	
Hydraulic tool	5.00			3883.00	
Safety Joint	3.00			3886.00	
Packer	5.00			3891.00	23.00 Bottom Of Top Packer
Packer	4.00			3895.00	
Stubb	1.00			3896.00	
Perforations	2.00			3898.00	
Change Over Sub	1.00			3899.00	
Recorder	0.00	8844	Inside	3899.00	
Recorder	0.00	8372	Outside	3899.00	
Blank Spacing	32.00			3931.00	
Change Over Sub	1.00			3932.00	
Bullnose	3.00			3935.00	40.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC.

32-9s-24w Graham,KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51459

DST#: 1

ATTN: Rocky Milford

Test Start: 2013.01.25 @ 16:27:05

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

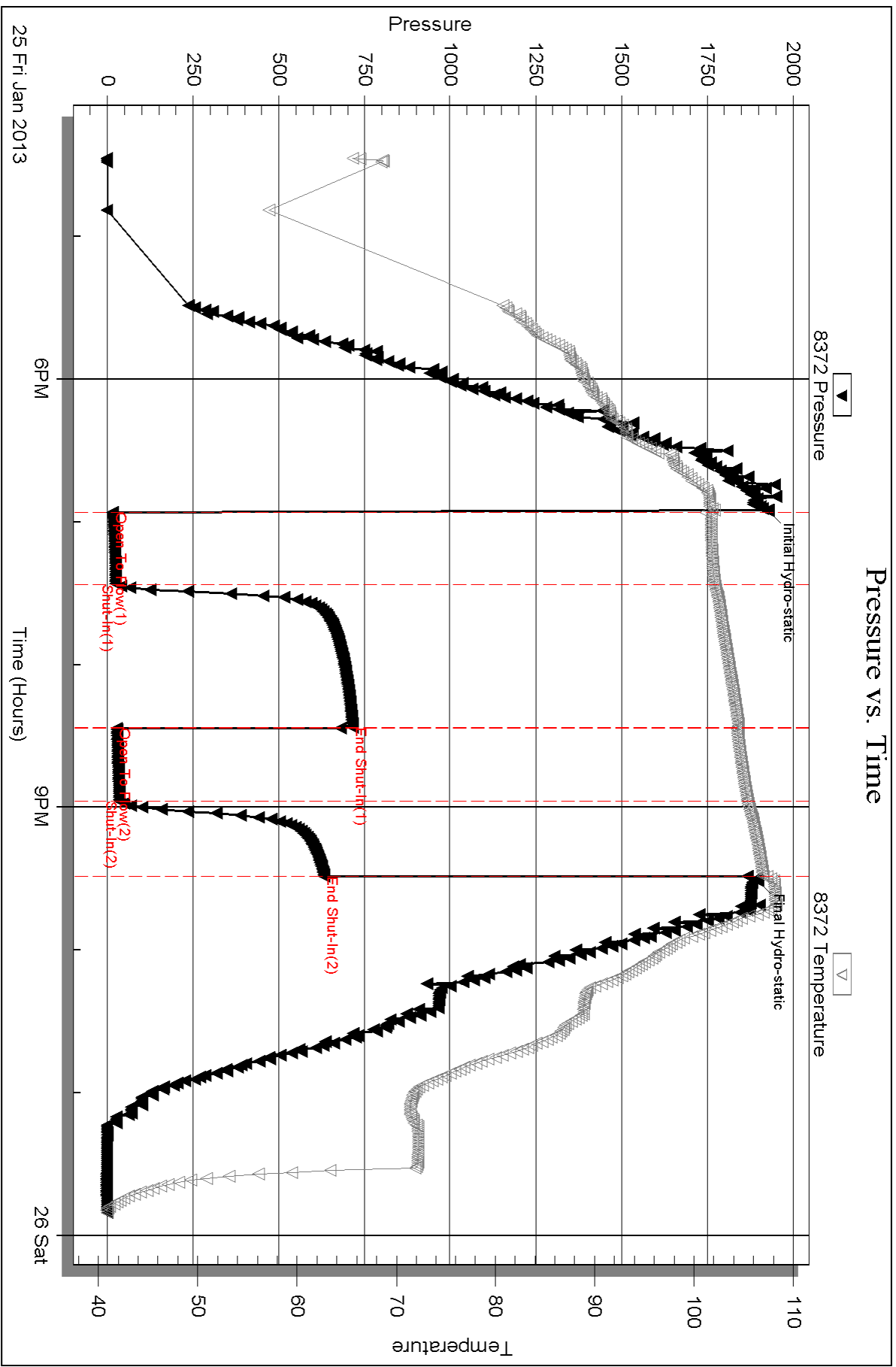
Recovery Comments:

Serial #: 8372

Outside Cobalt Energy LLC

Critchfield A #1-32

DST Test Number: 1



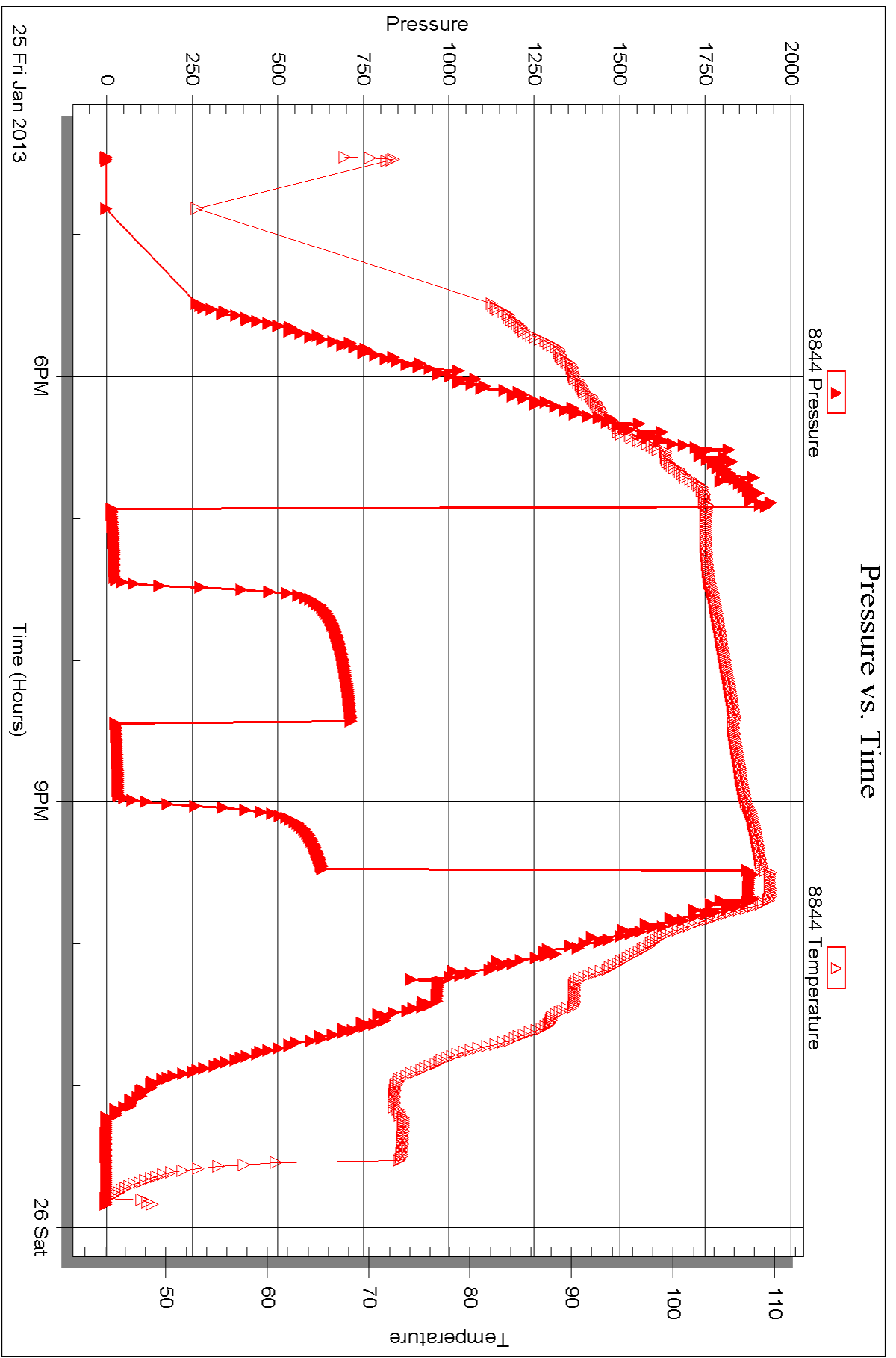
Serial #: 8844

Inside

Cobalt Energy LLC

Critchfield A #1-32

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51459

Printed: 2013.02.05 @ 11:21:30



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC.**

PO Box 8037
Wichita KS 67208

ATTN: Rocky Milford

Critchfield A #1-32

32-9s-24w Graham,KS

Start Date: 2013.01.26 @ 11:26:05

End Date: 2013.01.26 @ 17:33:39

Job Ticket #: 51460 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.05 @ 11:20:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC.

32-9s-24w Graham,KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51460

DST#: 2

ATTN: Rocky Milford

Test Start: 2013.01.26 @ 11:26:05

GENERAL INFORMATION:

Formation: **Lans. "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:22:50

Time Test Ended: 17:33:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3995.00 ft (KB) To 4030.00 ft (KB) (TVD)

Reference Elevations: 2531.00 ft (KB)

Total Depth: 4030.00 ft (KB) (TVD)

2526.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @RunDepth: 15.36 psig @ 3996.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.26

End Date: 2013.01.26

Last Calib.: 2013.01.26

Start Time: 11:26:05

End Time: 17:33:40

Time On Btm: 2013.01.26 @ 13:22:30

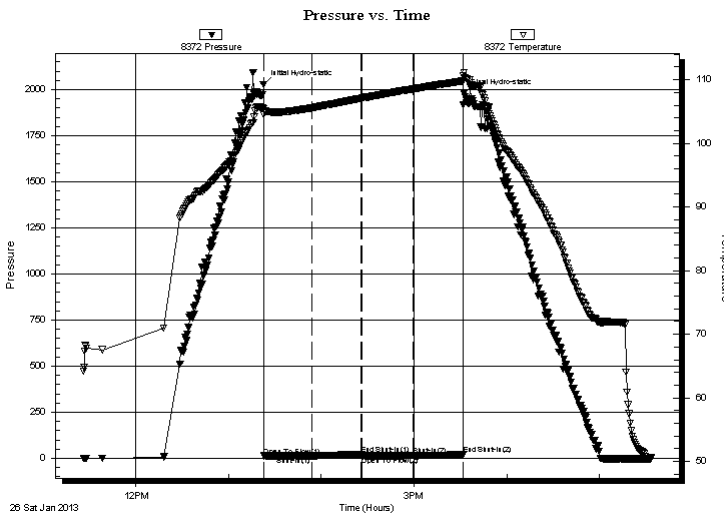
Time Off Btm: 2013.01.26 @ 15:32:30

TEST COMMENT: IF:(30min) Blow died in 9 min.

ISl:(30min) No Return

FF:(30min) No Blow

FSl:(30min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2028.49	105.51	Initial Hydro-static
1	14.04	104.48	Open To Flow (1)
31	14.04	105.58	Shut-In(1)
64	21.91	107.09	End Shut-In(1)
64	13.06	107.10	Open To Flow (2)
97	15.36	108.55	Shut-In(2)
129	20.47	109.81	End Shut-In(2)
130	1978.32	111.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w / oil spcks in tool	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC.

32-9s-24w Graham,KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51460

DST#: 2

ATTN: Rocky Milford

Test Start: 2013.01.26 @ 11:26:05

GENERAL INFORMATION:

Formation: **Lans. "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:22:50

Time Test Ended: 17:33:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3995.00 ft (KB) To 4030.00 ft (KB) (TVD)

Total Depth: 4030.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2531.00 ft (KB)

2526.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8844 Inside

Press @RunDepth: psig @ 3996.00 ft (KB)

Start Date: 2013.01.26

End Date: 2013.01.26

Start Time: 11:26:05

End Time: 17:33:29

Capacity: 8000.00 psig

Last Calib.: 2013.01.26

Time On Btm:

Time Off Btm:

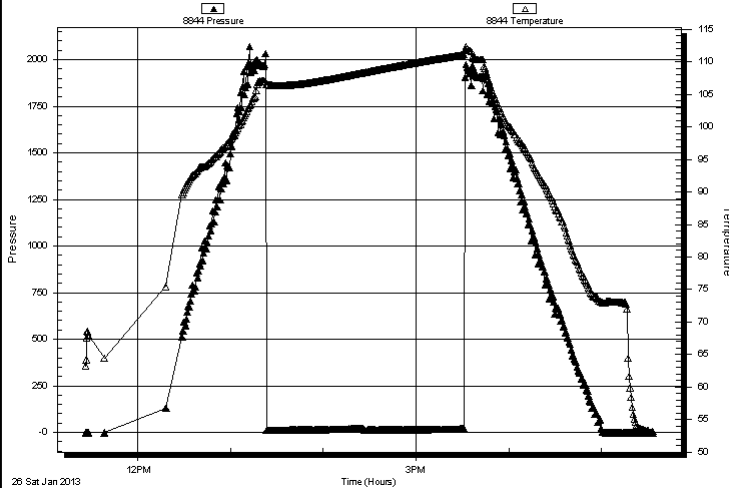
TEST COMMENT: IF:(30min) Blow died in 9 min.

IS:(30min) No Return

FF:(30min) No Blow

FS:(30min) No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w / oil spcks in tool	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

Cobalt Energy LLC.

32-9s-24w Graham,KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51460

DST#: 2

ATTN: Rocky Milford

Test Start: 2013.01.26 @ 11:26:05

Tool Information

Drill Pipe:	Length: 3815.00 ft	Diameter: 3.80 inches	Volume: 53.51 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 186.13 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.13 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3995.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	58.00 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			3973.00	
Shut In Tool	5.00			3978.00	
Hydraulic tool	5.00			3983.00	
Safety Joint	3.00			3986.00	
Packer	5.00			3991.00	23.00 Bottom Of Top Packer
Packer	4.00			3995.00	
Stubb	1.00			3996.00	
Recorder	0.00	8844	Inside	3996.00	
Recorder	0.00	8372	Outside	3996.00	
Perforations	31.00			4027.00	
Bullnose	3.00			4030.00	35.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC.

32-9s-24w Graham,KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51460

DST#: 2

ATTN: Rocky Milford

Test Start: 2013.01.26 @ 11:26:05

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.78 in³

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
1.00	Mud w / oil spcks in tool	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

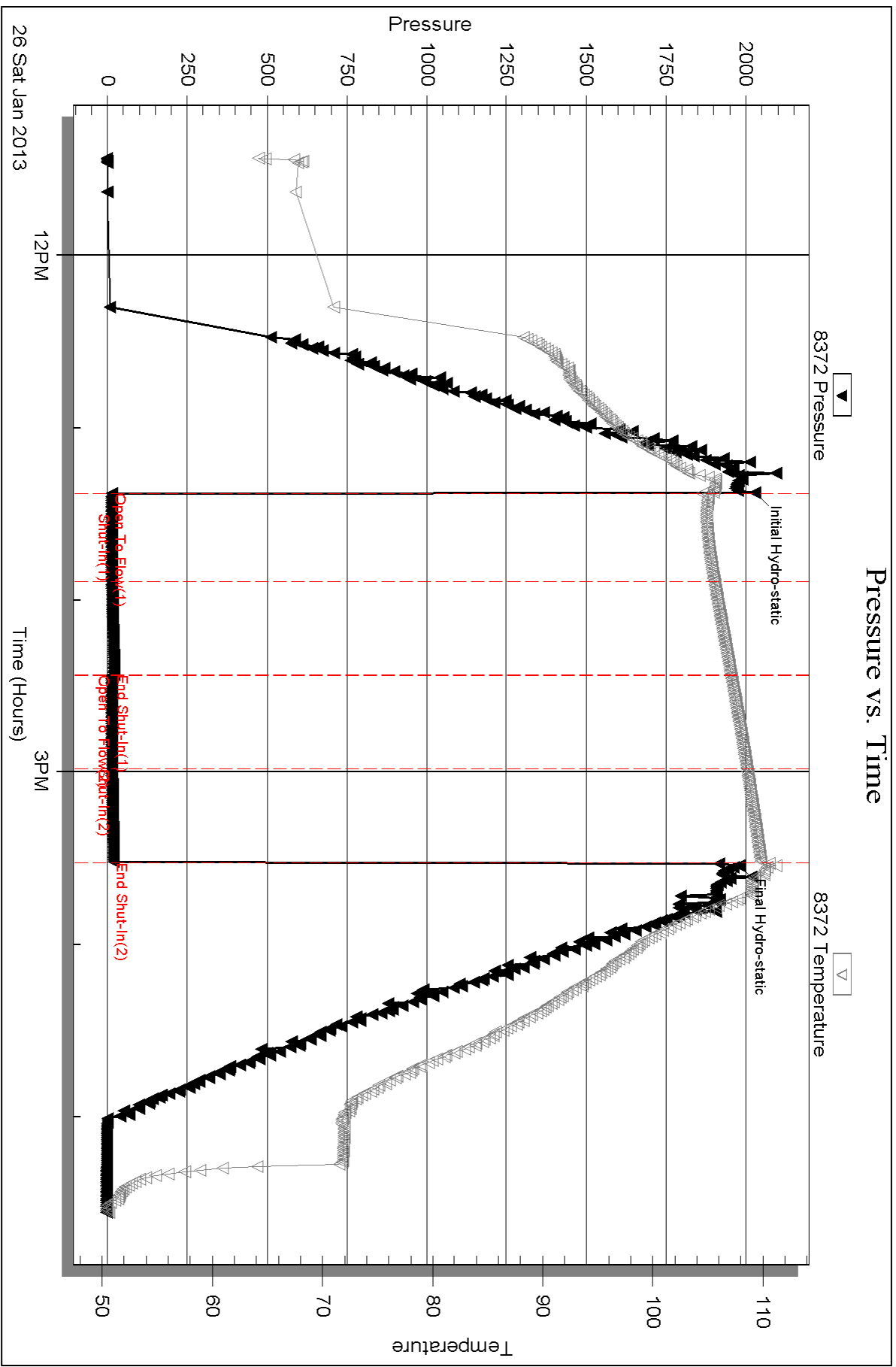
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



26 Sat Jan 2013

Time (Hours)

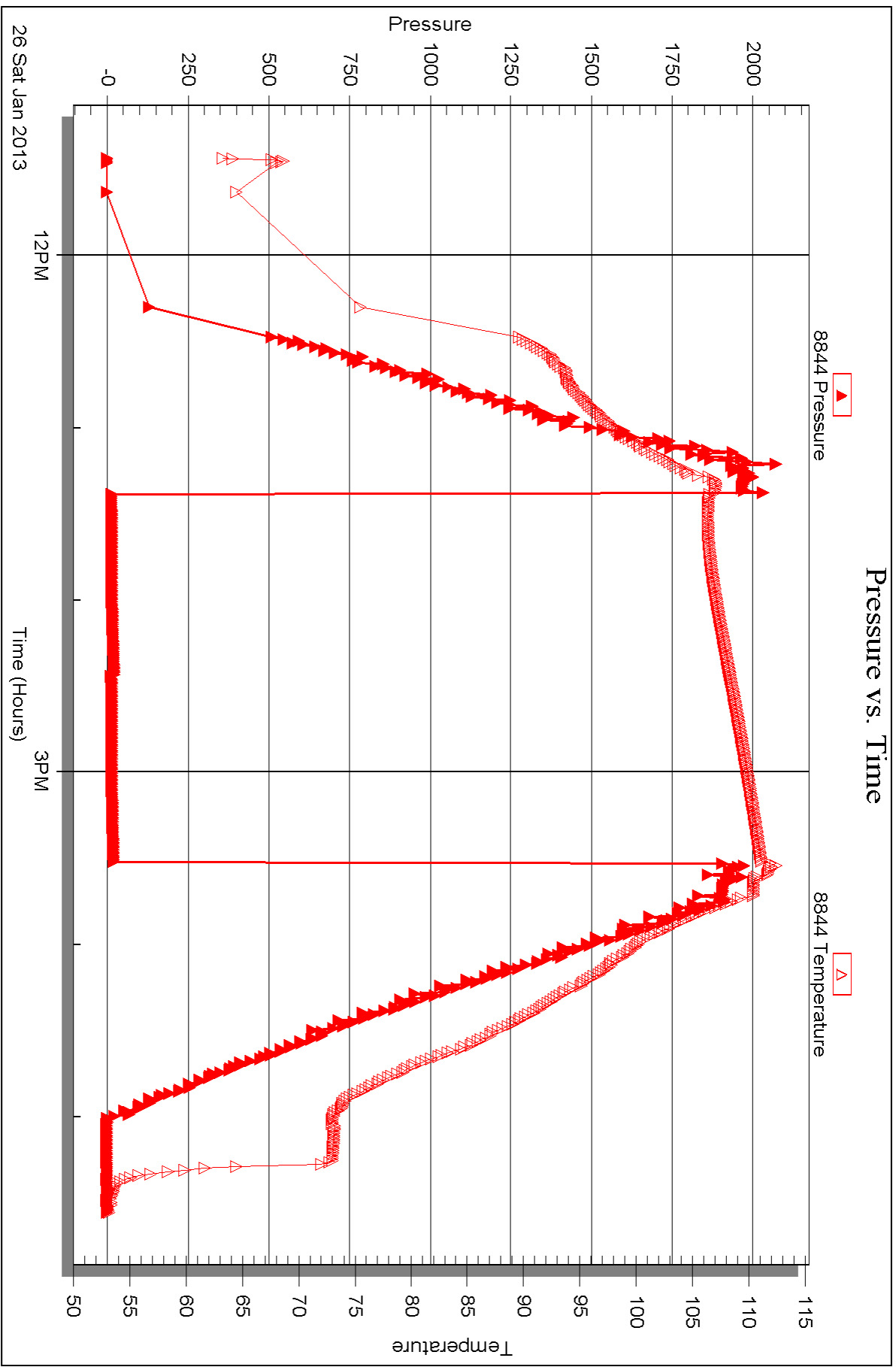
Serial #: 8844

Inside

Cobalt Energy LLC

Critchfield A #1-32

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC.**

PO Box 8037
Wichita KS 67208

ATTN: Rocky Milford

Critchfield A #1-32

32-9s-24w Graham,KS

Start Date: 2013.01.27 @ 02:33:05

End Date: 2013.01.27 @ 08:54:20

Job Ticket #: 51461 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.05 @ 11:20:11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC.

32-9s-24w Graham,KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51461

DST#: 3

ATTN: Rocky Milford

Test Start: 2013.01.27 @ 02:33:05

GENERAL INFORMATION:

Formation: **Lans. "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:40

Time Test Ended: 08:54:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 4023.00 ft (KB) To 4067.00 ft (KB) (TVD)

Reference Elevations: 2531.00 ft (KB)

Total Depth: 4067.00 ft (KB) (TVD)

2526.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @ RunDepth: 24.21 psig @ 4029.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.27

End Date:

2013.01.27

Last Calib.:

2013.01.27

Start Time: 02:33:05

End Time:

08:54:20

Time On Btm:

2013.01.27 @ 04:37:50

Time Off Btm:

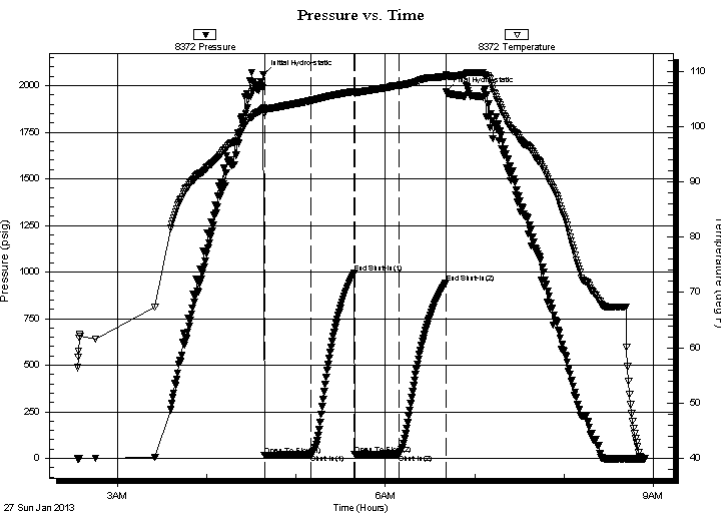
2013.01.27 @ 06:40:50

TEST COMMENT: IF:(30min) Blow died in 12 min.

IS:(30min) No Return

FF:(30min) No Blow

FS:(30min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.14	103.26	Initial Hydro-static
1	15.23	102.36	Open To Flow (1)
32	20.50	104.73	Shut-In(1)
61	992.84	106.40	End Shut-In(1)
62	21.92	106.03	Open To Flow (2)
92	24.21	107.49	Shut-In(2)
123	942.61	109.09	End Shut-In(2)
123	1966.07	109.44	Final Hydro-static

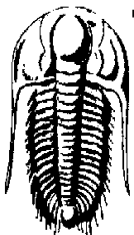
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC.

32-9s-24w Graham, KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51461

DST#: 3

ATTN: Rocky Milford

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Tester: Andy Carreira

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Total Depth: 4067.00 ft (KB) (TVD)

2526.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8844 Inside

Press @ Run Depth: psig @ 4029.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.27 End Date: 2013.01.27

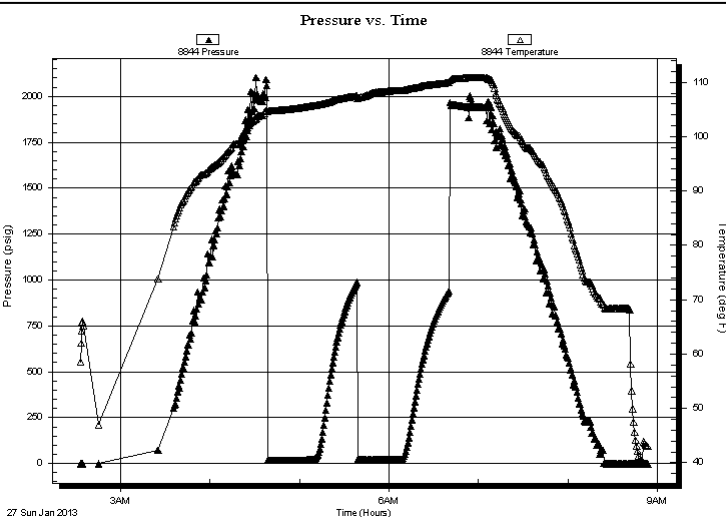
Last Calib.: 2013.01.27

Start Time: 02:33:05 End Time: 08:53:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(30min) Blow died in 12 min.
IS:(30min) No Return
FF:(30min) No Blow
FS:(30min) No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

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.

32-9s-24w Graham,KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51461

DST#: 3

ATTN: Rocky Milford

Test Start: 2013.01.27 @ 02:33:05

Tool Information

Drill Pipe:	Length: 3819.00 ft	Diameter: 3.80 inches	Volume: 53.57 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 186.13 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 54.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.13 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4023.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	67.00 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			4001.00	
Shut In Tool	5.00			4006.00	
Hydraulic tool	5.00			4011.00	
Safety Joint	3.00			4014.00	
Packer	5.00			4019.00	23.00 Bottom Of Top Packer
Packer	4.00			4023.00	
Stubb	1.00			4024.00	
Perforations	4.00			4028.00	
Change Over Sub	1.00			4029.00	
Recorder	0.00	8844	Inside	4029.00	
Recorder	0.00	8372	Outside	4029.00	
Blank Spacing	32.00			4061.00	
Change Over Sub	1.00			4062.00	
Perforations	2.00			4064.00	
Bullnose	3.00			4067.00	44.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC.

32-9s-24w Graham,KS

PO Box 8037
Wichita KS 67208

Critchfield A #1-32

Job Ticket: 51461

DST#: 3

ATTN: Rocky Milford

Test Start: 2013.01.27 @ 02:33:05

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

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
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

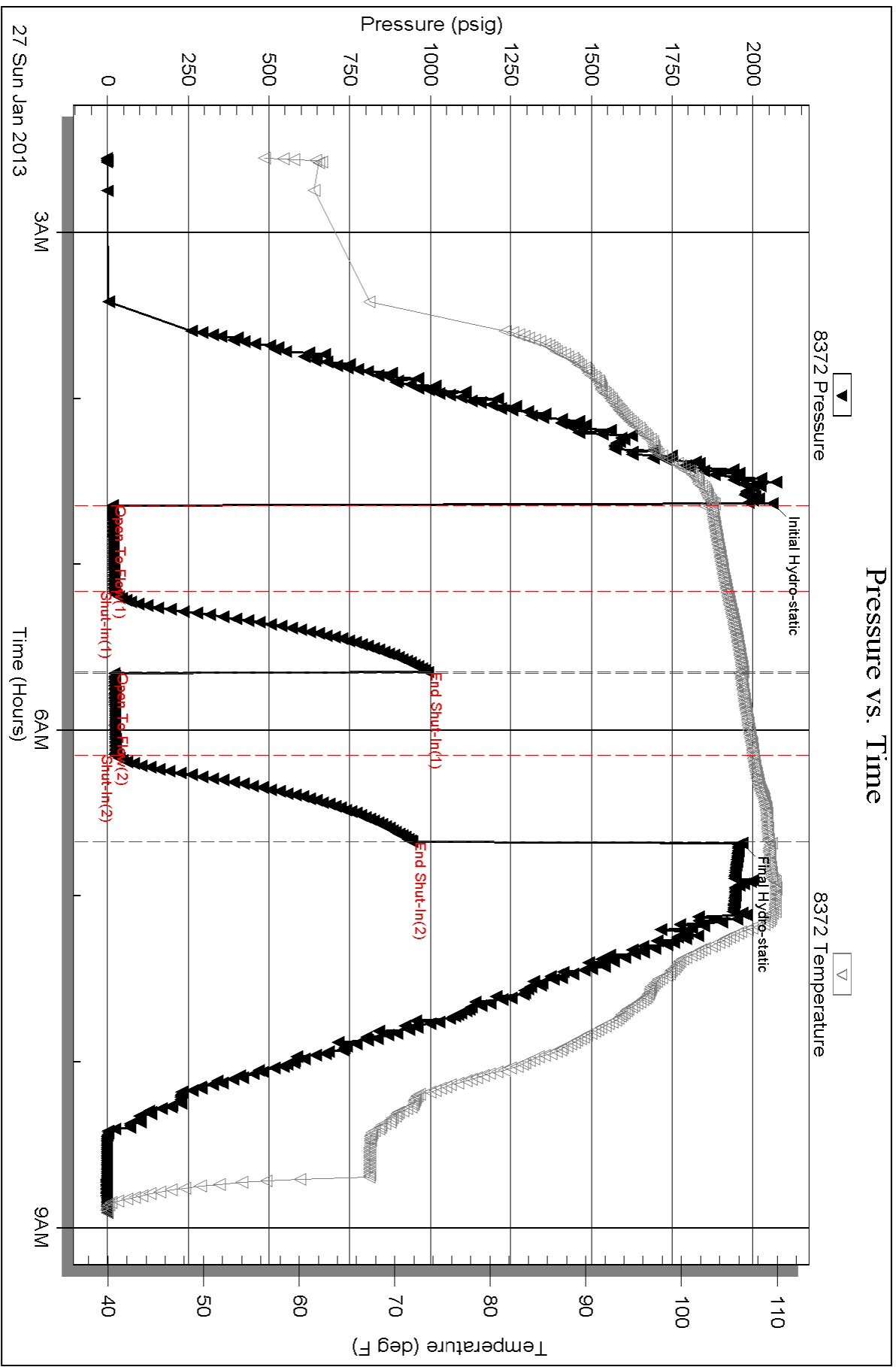
Recovery Comments:

Serial #: 8372

Outside Cobalt Energy LLC

Critchfield A #1-32

DST Test Number: 3



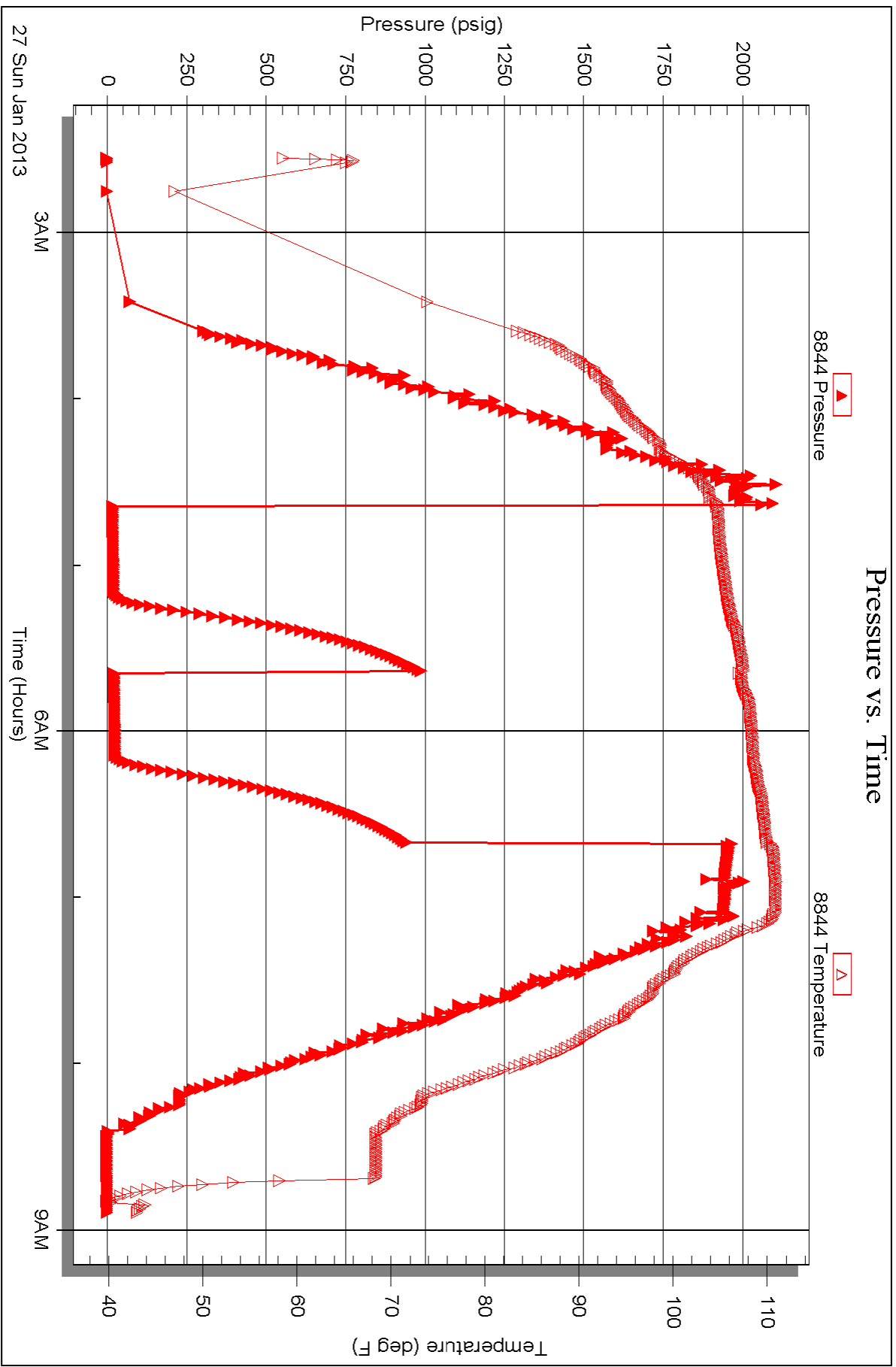
Serial #: 8844

Inside

Cobalt Energy LLC

Critchfield A #1-32

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51459

Well Name & No. Critchfield A 1-32 Test No. 1 Date 1-25-13
 Company Colbalt Energy LLC Elevation 2531 KB 2526 GL
 Address Po Box 8037 Wichita Ks 67208
 Co. Rep / Geo. Rocky Milford Rig Muelin #8
 Location: Sec. 32 Twp. 9s Rge. 24w Co. Graham State Ks

Interval Tested 3895-3935 Zone Tested LANS. "C-D"
 Anchor Length 40' Drill Pipe Run 3694 Mud Wt. 9.3
 Top Packer Depth 3890 Drill Collars Run 186.13 Vis 52
 Bottom Packer Depth 3895 Wt. Pipe Run 0 WL 7.4
 Total Depth 3935 Chlorides 2700 ppm System LCM H

Blow Description FF: Very Weak surface blow
FSI: NO Return
FP: NO Blow
FSI: NO Return

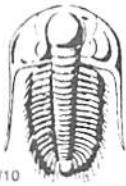
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1924</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>14:52</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars _____	T-Started <u>16:27</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>18:56</u>
(D) Initial Shut-In <u>714</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>21:26</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:50</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>123AT</u> 190.65	Comments _____
(G) Final Shut-In <u>631</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1897</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>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1415.65</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1415.65</u>	

Approved By _____ Our Representative Rocky Milford

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. 51460

Well Name & No. Critchfield A 1-32 Test No. 2 Date 1-26-13
 Company Cobalt Energy LLC Elevation 2531 KB 2526 GL
 Address Po Box 80371 Wichita Ks. 67208
 Co. Rep / Geo. Rocky Milford Rig MURFIN #8
 Location: Sec. 32 Twp. 9S Rge. 24W Co. Graham State Ks

Interval Tested 3995-4030 Zone Tested LANS. "H"
 Anchor Length 35' Drill Pipe Run 3815 Mud Wt. 9.2
 Top Packer Depth 3990 Drill Collars Run 186.13 Vis 54
 Bottom Packer Depth 3995 Wt. Pipe Run A WL 7.8
 Total Depth 4030 Chlorides 3000 ppm System LCM 2

Blow Description IF: Blow died in 9 min.
ISI: NO RETURN
FF: NO BLOW
FSI: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud w/oil spks in Tool</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 1 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2028 Test 1250 T-On Location 10:15
 (B) First Initial Flow 14 Jars T-Started 11:26
 (C) First Final Flow 14 Safety Joint 75 T-Open 13:24
 (D) Initial Shut-In 21 Circ Sub T-Pulled 15:24
 (E) Second Initial Flow 13 Hourly Standby T-Out 17:36
 (F) Second Final Flow 15 Mileage 123RT 190.65 Comments 4030' DEEP
 (G) Final Shut-In 20 Sampler _____
 (H) Final Hydrostatic 1978 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 30 Day Standby _____
 Accessibility _____
 Sub Total 1515.65 MP/DST Disc't _____

Approved By _____ Our Representative Rocky Con

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51461

Well Name & No. Critchfield A 1-32 Test No. 3 Date 1-27-13
 Company Cobalt Energy LLC. Elevation 2531 KB 2526 GL
 Address PO BOX 8037 Wichita, Ks. 67208
 Co. Rep / Geo. Rocky Milford Rig MURFIN #8
 Location: Sec. 32 Twp. 9S Rge. 24W Co. Graham State Ks.

Interval Tested 4023-4067 Zone Tested LANS. "I-J"
 Anchor Length 44' Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 4018 Drill Collars Run 186.13 Vis 54
 Bottom Packer Depth 4023 Wt. Pipe Run 5 WL 7.8
 Total Depth 4067 Chlorides 3000 ppm System LCM 2

Blow Description IF: Blow Since in 12min
IST: NO RETURN
FF: NO BLOW
FSL: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</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

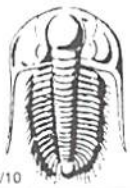
Rec Total 5 BHT 109° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2061 Test 1250 T-On Location 01:27
 (B) First Initial Flow 15 Jars _____ T-Started 02:33
 (C) First Final Flow 20 Safety Joint 75 T-Open 04:39
 (D) Initial Shut-In 992 Circ Sub _____ T-Pulled 06:39
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 08:42
 (F) Second Final Flow 24 Mileage 123RT 190.65 Comments _____
 (G) Final Shut-In 942 Sampler _____
 (H) Final Hydrostatic 1966 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1515.65
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1515.65

Approved By _____ Our Representative Andy Carr

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51466

Well Name & No. Critchfield A-1-32 Test No. - Date 1-27-13
 Company Cobalt Energy LLC. Elevation 2531 KB 2526 GL
 Address PO Box 8037 Wichita Ks. 67208
 Co. Rep / Geo. Rocky Milford Rig Murfin 8
 Location: Sec. 32 Twp. 9s Rge. 24w Co. Garhan State KS

Interval Tested _____ Zone Tested _____
 Anchor Length _____ Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth _____ Drill Collars Run _____ Vis _____
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL _____
 Total Depth _____ Chlorides _____ ppm System LCM _____
 Blow Description _____

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	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic _____ Test _____ T-On Location 18:00
 (B) First Initial Flow _____ Jars _____ T-Started _____
 (C) First Final Flow _____ Safety Joint _____ T-Open _____
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled _____
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out _____
 (F) Second Final Flow _____ Mileage 123 RT 190.65 Comments Pick up Tools!
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open _____ Extra Recorder _____ Sub Total 0
 Initial Shut-In _____ Day Standby _____ Total 190.65
 Final Flow _____ Accessibility _____ MP/DST Disc't
 Final Shut-In _____ Sub Total 190.65

Approved By _____ Our Representative Rocky C

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