



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Corey Baker

Jamison Unit A #1-15

5-14s27w Gove,KS

Start Date: 2017.04.02 @ 08:48:42

End Date: 2017.04.02 @ 16:15:27

Job Ticket #: 63709 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.07 @ 10:20:12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 63709

DST#: 1

Test Start: 2017.04.02 @ 08:48:42

GENERAL INFORMATION:

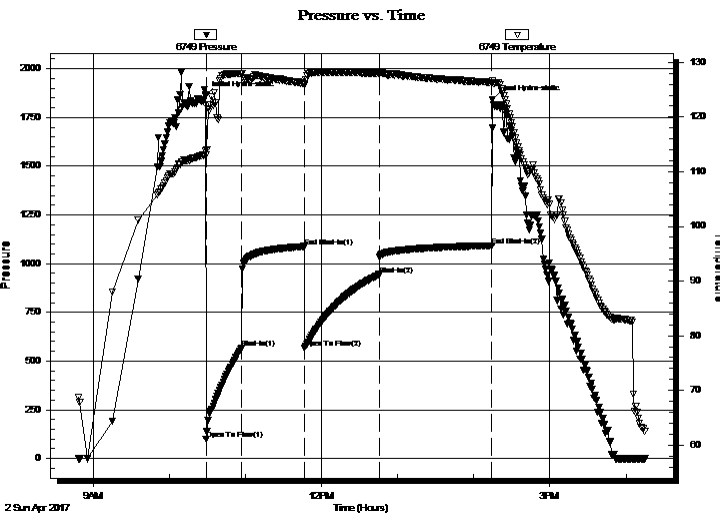
Formation: **E-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:29:12
 Time Test Ended: 16:15:27
 Interval: **3822.00 ft (KB) To 3870.00 ft (KB) (TVD)**
 Total Depth: 3870.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 2577.00 ft (KB)
 2567.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6749

Outside

Press@RunDepth: 943.46 psig @ 3860.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.04.02 End Date: 2017.04.02 Last Calib.: 2017.04.02
 Start Time: 08:48:42 End Time: 16:15:27 Time On Btm: 2017.04.02 @ 10:28:57
 Time Off Btm: 2017.04.02 @ 14:14:57

TEST COMMENT: IF:BOB in 2 min.
 IS:No return blow
 FF:BOB in 2 min.
 FS:No return blow



PRESSURE SUMMARY

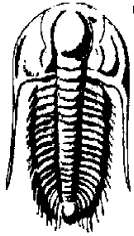
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1861.63	113.92	Initial Hydro-static
1	99.65	113.12	Open To Flow (1)
29	566.72	127.89	Shut-In(1)
78	1087.95	126.12	End Shut-In(1)
78	565.83	125.85	Open To Flow (2)
137	943.46	127.98	Shut-In(2)
226	1091.93	126.33	End Shut-In(2)
226	1840.70	126.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1178.00	sw 100%sw	14.30
620.00	mcw 30%m 70%sw	8.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 63709

DST#: 1

Test Start: 2017.04.02 @ 08:48:42

Tool Information

Drill Pipe:	Length: 3569.00 ft	Diameter: 3.80 inches	Volume: 50.06 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 51.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3822.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	71.00 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			3800.00	
Shut In Tool	5.00			3805.00	
Hydraulic tool	5.00			3810.00	
Safety Joint	3.00			3813.00	
Packer	5.00			3818.00	23.00 Bottom Of Top Packer
Packer	4.00			3822.00	
Stubb	1.00			3823.00	
Perforations	4.00			3827.00	
Change Over Sub	1.00			3828.00	
Drill Pipe	31.00			3859.00	
Change Over Sub	1.00			3860.00	
Recorder	0.00	8672	Inside	3860.00	
Recorder	0.00	6749	Outside	3860.00	
Perforations	5.00			3865.00	
Bullnose	5.00			3870.00	48.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

Job Ticket: 63709

DST#: 1

ATTN: Corey Baker

Test Start: 2017.04.02 @ 08:48:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

33000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.72 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1178.00	sw 100%sw	14.302
620.00	mcw 30%m 70%sw	8.697

Total Length: 1798.00 ft Total Volume: 22.625 bbl

Num Fluid Samples: 0

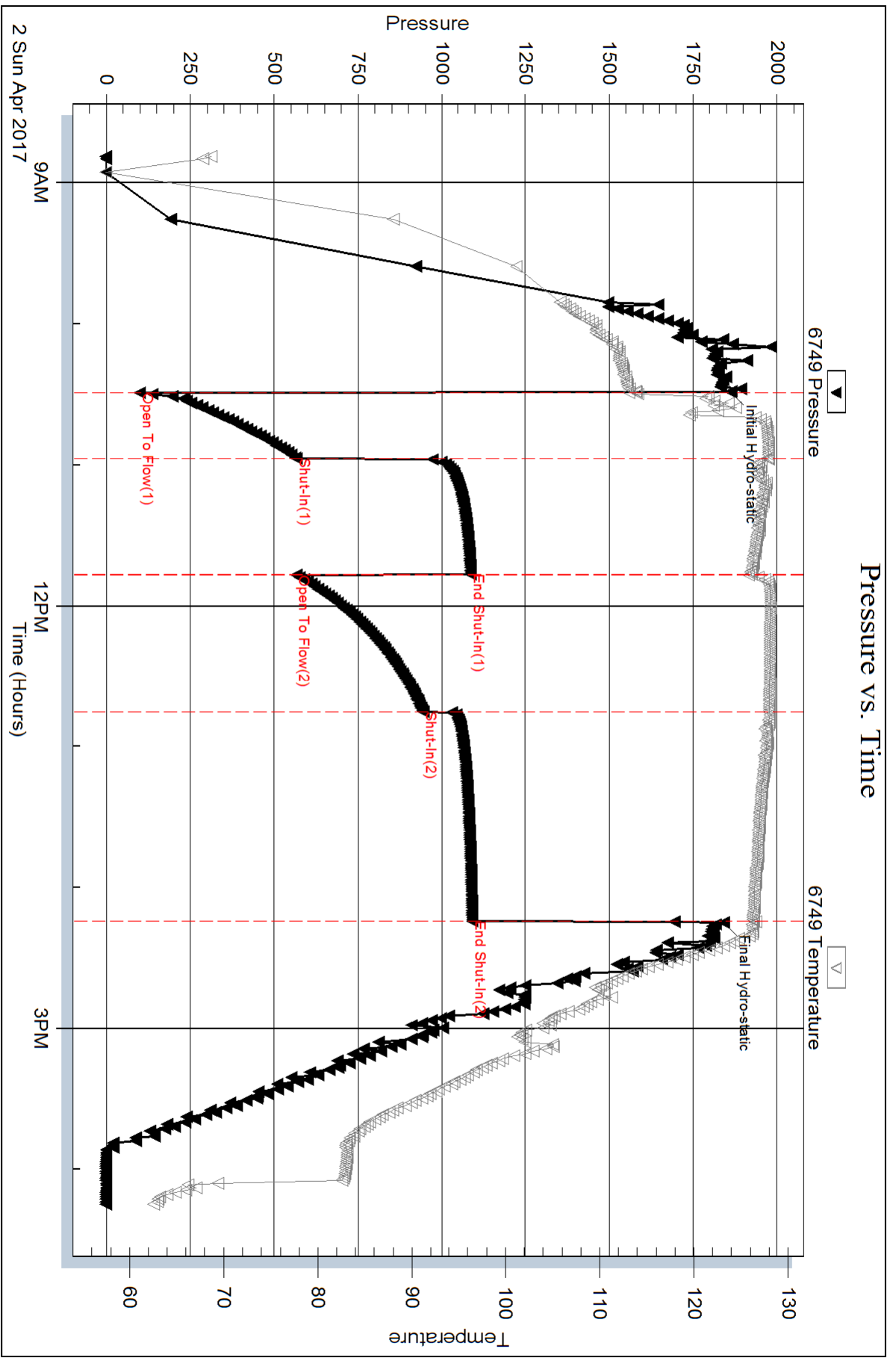
Num Gas Bombs: 0

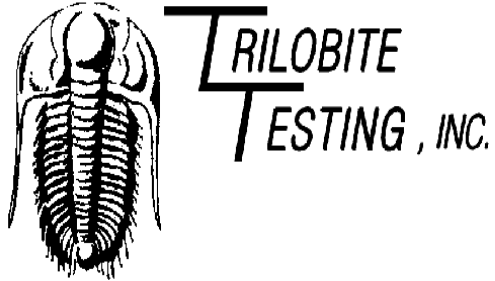
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .231@ 71.8= 33,000 ppm





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Corey Baker

Jamison Unit A #1-15

5-14s27w Gove,KS

Start Date: 2017.04.03 @ 01:48:15

End Date: 2017.04.03 @ 09:02:45

Job Ticket #: 63710 DST #: 2

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

Printed: 2017.04.07 @ 10:19:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 63710

DST#: 2

Test Start: 2017.04.03 @ 01:48:15

GENERAL INFORMATION:

Formation: **H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:36:00
 Time Test Ended: 09:02:45
 Interval: **3894.00 ft (KB) To 3930.00 ft (KB) (TVD)**
 Total Depth: 3930.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 2577.00 ft (KB)
 2567.00 ft (CF)
 KB to GR/CF: 10.00 ft

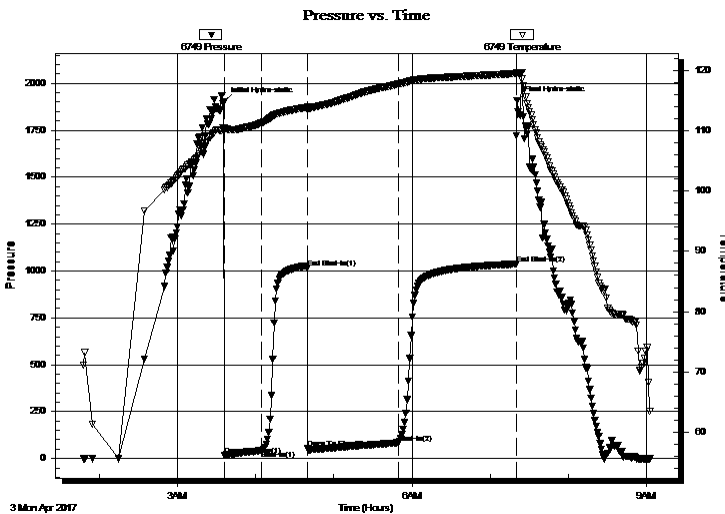
Serial #: 6749

Outside

Press@RunDepth: 83.71 psig @ 3895.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.04.03 End Date: 2017.04.03 Last Calib.: 2017.04.03
 Start Time: 01:48:15 End Time: 09:02:45 Time On Btm: 2017.04.03 @ 03:35:45
 Time Off Btm: 2017.04.03 @ 07:20:30

TEST COMMENT: IF: Built to 1 1/2" blow
 IS: No return blow
 FF: Built to 2" blow
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1904.75	110.55	Initial Hydro-static
1	16.65	110.10	Open To Flow (1)
29	41.80	111.30	Shut-In(1)
64	1017.30	113.90	End Shut-In(1)
65	52.34	113.54	Open To Flow (2)
134	83.71	117.73	Shut-In(2)
224	1037.20	119.49	End Shut-In(2)
225	1907.11	119.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	ocm 40%o 60%m	0.30
122.00	ocm 5%o 95%m	0.60

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 63710

DST#: 2

Test Start: 2017.04.03 @ 01:48:15

Tool Information

Drill Pipe:	Length: 3639.00 ft	Diameter: 3.80 inches	Volume: 51.05 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 52.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3894.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	59.00 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			3872.00	
Shut In Tool	5.00			3877.00	
Hydraulic tool	5.00			3882.00	
Safety Joint	3.00			3885.00	
Packer	5.00			3890.00	23.00 Bottom Of Top Packer
Packer	4.00			3894.00	
Stubb	1.00			3895.00	
Recorder	0.00	8672	Inside	3895.00	
Recorder	0.00	6749	Outside	3895.00	
Perforations	30.00			3925.00	
Bullnose	5.00			3930.00	36.00 Bottom Packers & Anchor

Total Tool Length: 59.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

Job Ticket: 63710

DST#: 2

ATTN: Corey Baker

Test Start: 2017.04.03 @ 01:48:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	ocm 40%o 60%m	0.300
122.00	ocm 5%o 95%m	0.600

Total Length: 183.00 ft Total Volume: 0.900 bbl

Num Fluid Samples: 0

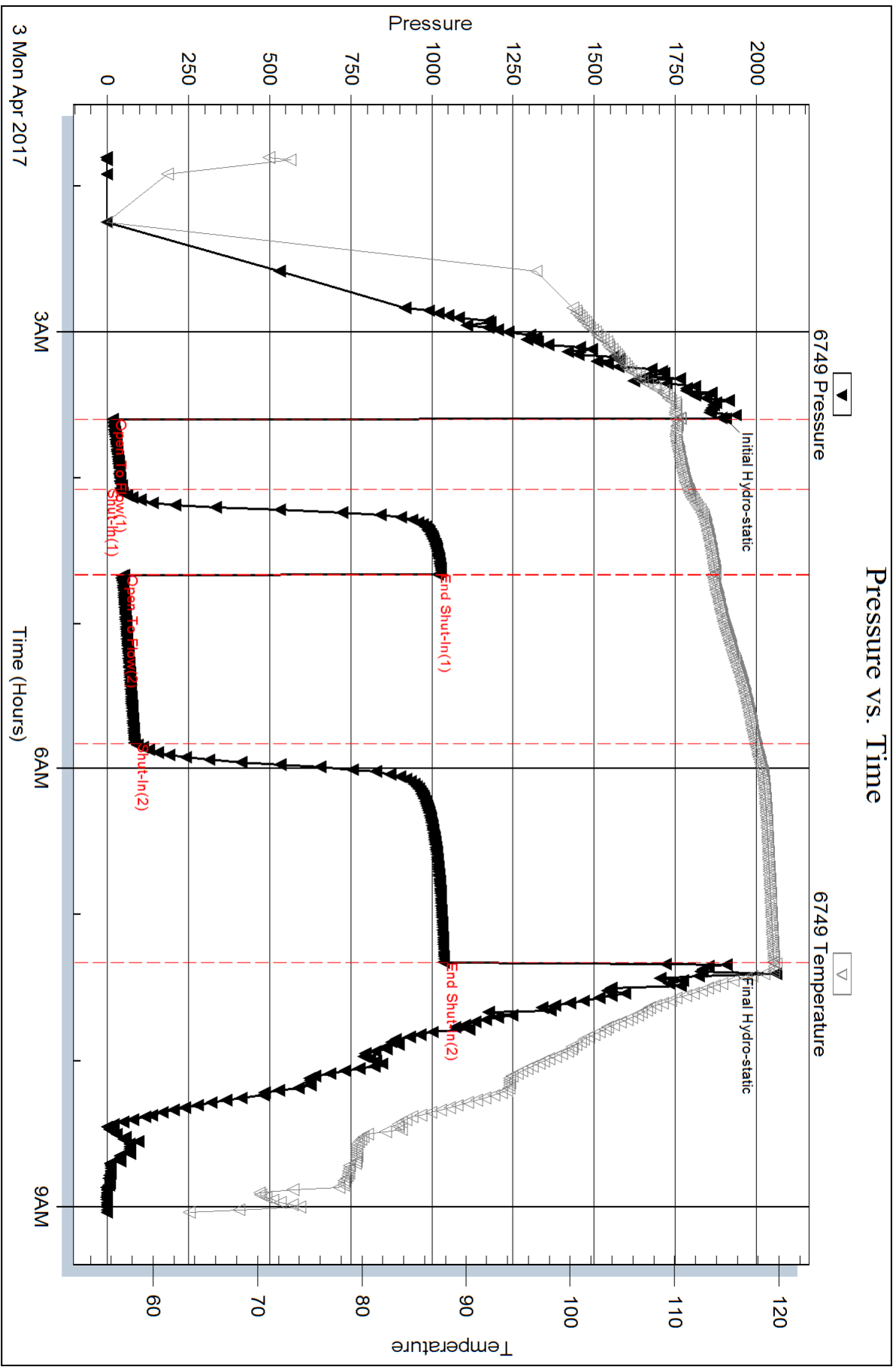
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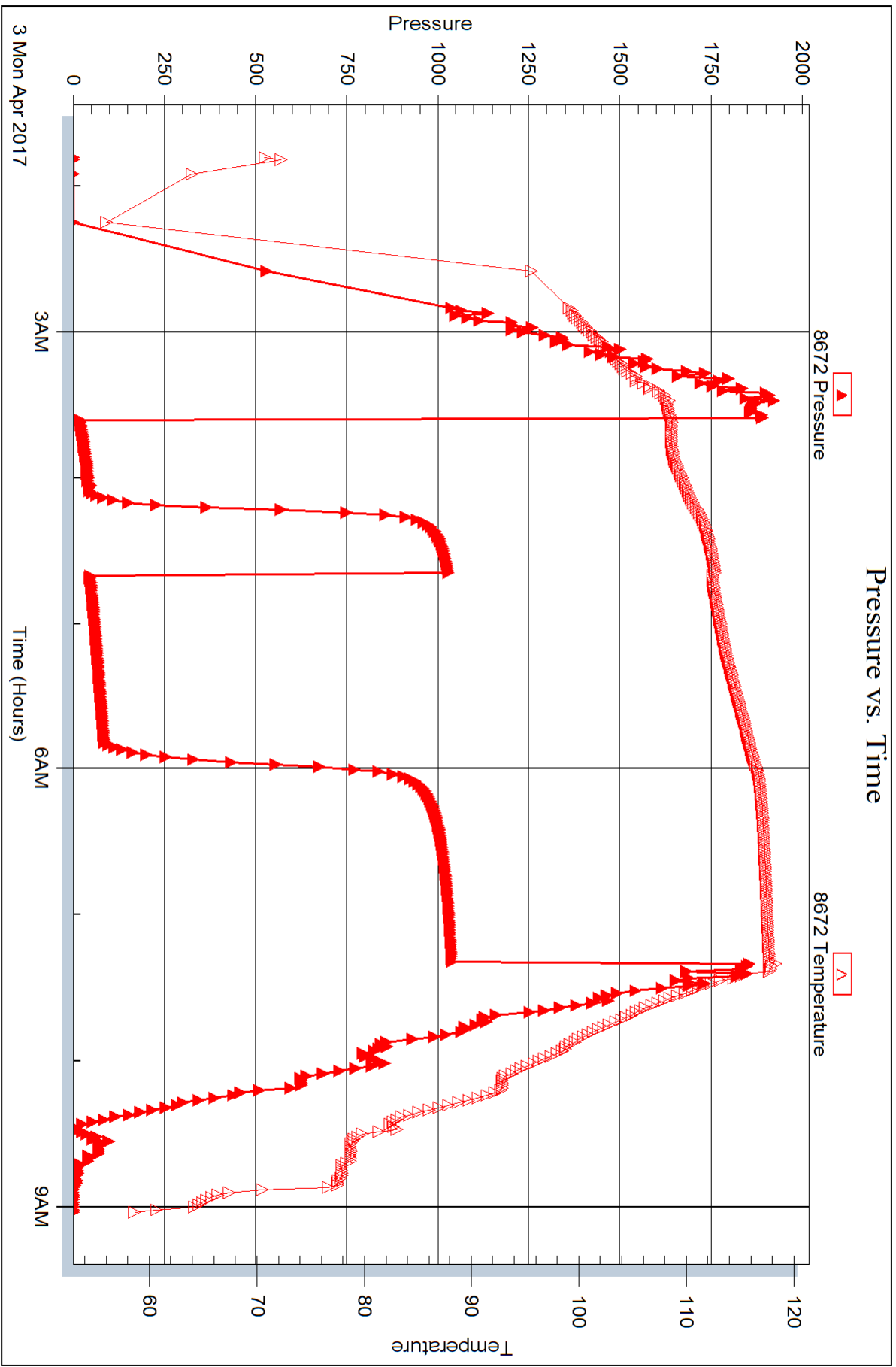
Serial #:

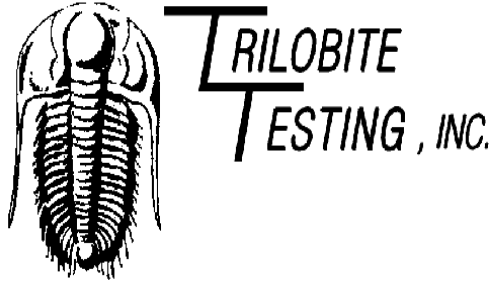
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Corey Baker

Jamison Unit A #1-15

5-14s27w Gove,KS

Start Date: 2017.04.03 @ 16:09:15

End Date: 2017.04.03 @ 23:12:30

Job Ticket #: 63711 DST #: 3

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

Printed: 2017.04.07 @ 10:19:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 63711

DST#: 3

Test Start: 2017.04.03 @ 16:09:15

GENERAL INFORMATION:

Formation: **I**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:49:15 Tester: Mike Roberts
 Time Test Ended: 23:12:30 Unit No: 81
Interval: 3930.00 ft (KB) To 3965.00 ft (KB) (TVD) Reference Elevations: 2577.00 ft (KB)
 Total Depth: 3965.00 ft (KB) (TVD) 2567.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

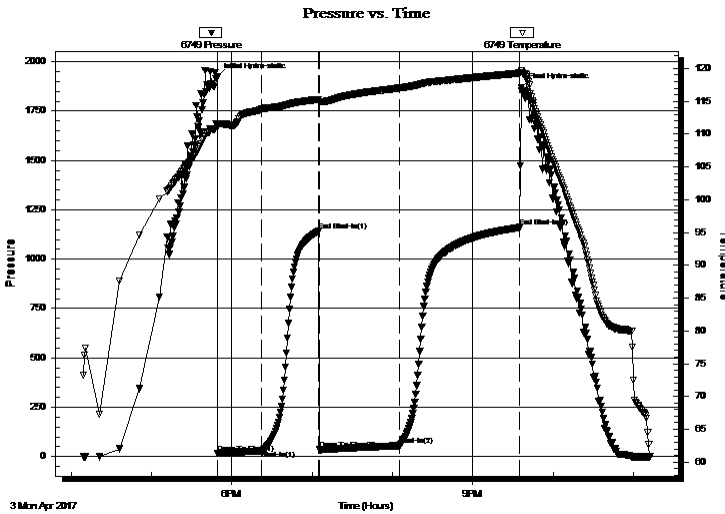
Serial #: 6749

Outside

Press@RunDepth: 54.64 psig @ 3931.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.04.03 End Date: 2017.04.03 Last Calib.: 2017.04.03
 Start Time: 16:09:15 End Time: 23:12:30 Time On Btm: 2017.04.03 @ 17:49:00
 Time Off Btm: 2017.04.03 @ 21:36:30

TEST COMMENT: IF: Built to 2 1/2" blow
 IS: No return blow
 FF: Built to 5" blow
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1922.34	111.59	Initial Hydro-static
1	15.28	111.02	Open To Flow (1)
34	29.50	113.81	Shut-In(1)
76	1141.90	115.31	End Shut-In(1)
77	35.52	114.98	Open To Flow (2)
137	54.64	117.03	Shut-In(2)
227	1161.06	119.30	End Shut-In(2)
228	1867.88	119.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	gcmo 5%g 40%m 55%o (collar)	0.30
61.00	gcmo 2%g 48%m 50%o (collar)	0.30
0.00	GIP= 246 feet	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 63711

DST#: 3

Test Start: 2017.04.03 @ 16:09:15

Tool Information

Drill Pipe:	Length: 3668.00 ft	Diameter: 3.80 inches	Volume: 51.45 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 52.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3930.00 ft			Final 70000.00 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			3908.00	
Shut In Tool	5.00			3913.00	
Hydraulic tool	5.00			3918.00	
Safety Joint	3.00			3921.00	
Packer	5.00			3926.00	23.00 Bottom Of Top Packer
Packer	4.00			3930.00	
Stubb	1.00			3931.00	
Recorder	0.00	8672	Inside	3931.00	
Recorder	0.00	6749	Outside	3931.00	
Perforations	29.00			3960.00	
Bullnose	5.00			3965.00	35.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

Job Ticket: 63711

DST#: 3

ATTN: Corey Baker

Test Start: 2017.04.03 @ 16:09:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.73 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	gcmo 5%g 40%m 55%o (collar)	0.300
61.00	gcmo 2%g 48%m 50%o (collar)	0.300
0.00	GIP= 246 feet	0.000

Total Length: 122.00 ft

Total Volume: 0.600 bbl

Num Fluid Samples: 0

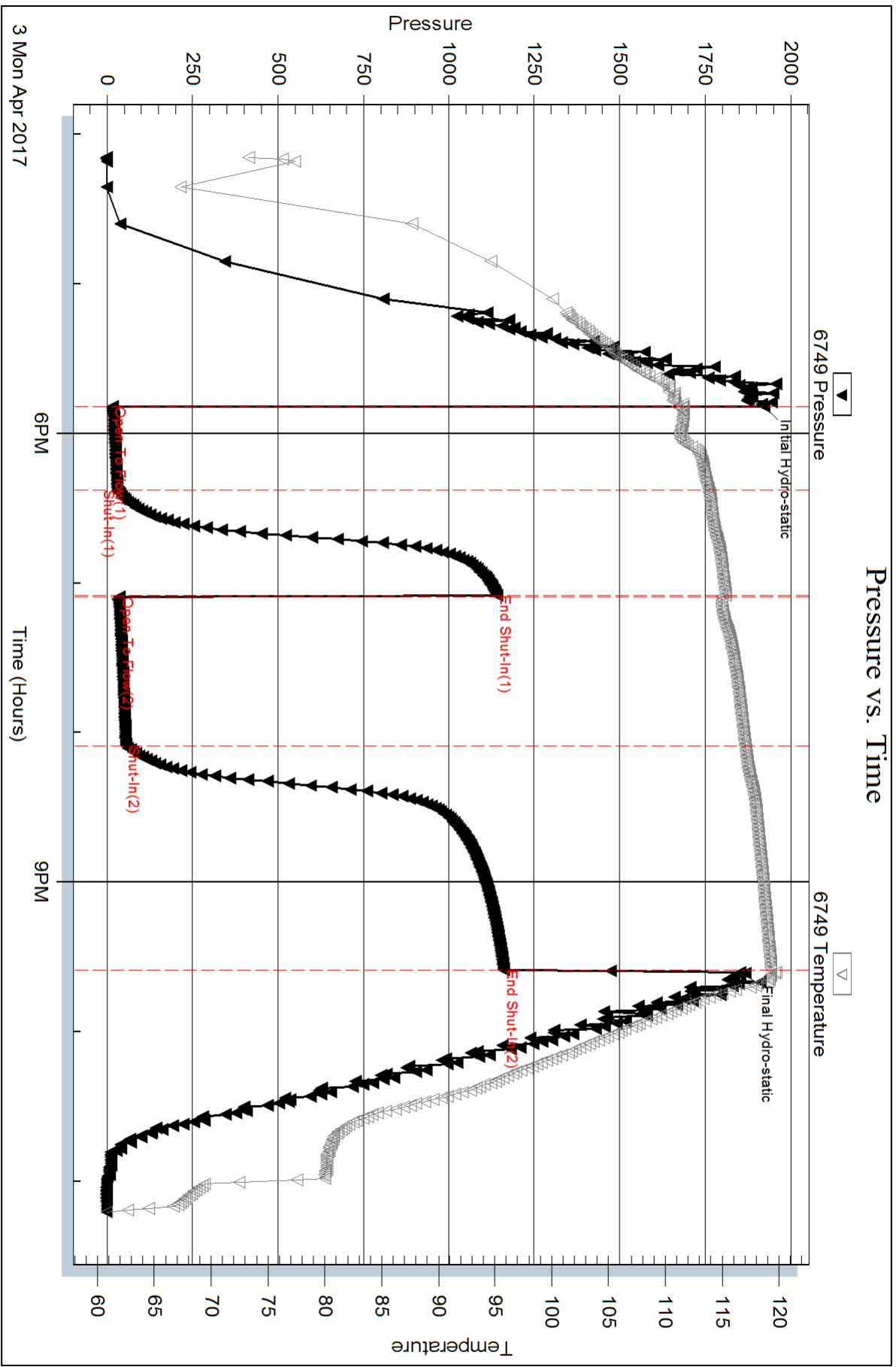
Num Gas Bombs: 0

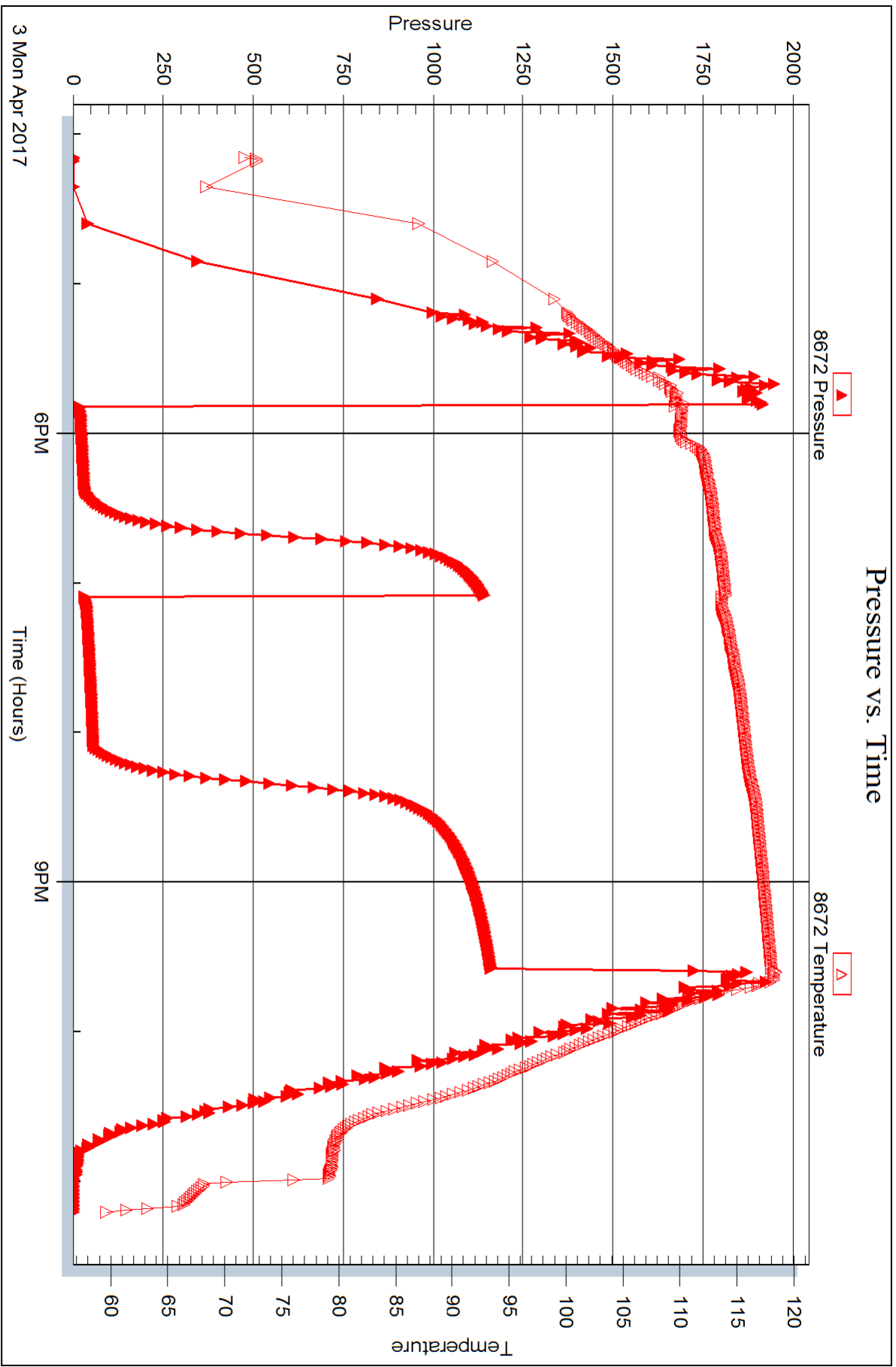
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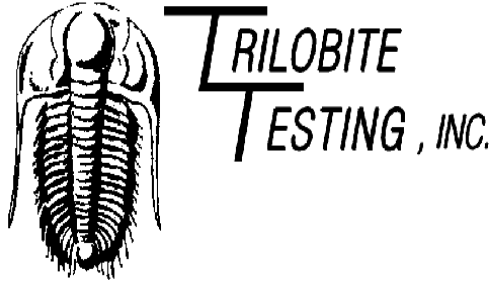
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Corey Baker

Jamison Unit A #1-15

5-14s27w Gove,KS

Start Date: 2017.04.04 @ 11:41:15

End Date: 2017.04.04 @ 18:37:30

Job Ticket #: 637121 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.07 @ 10:18:52

Cobalt Energy LLC
5-14s27w Gove,KS
Jamison Unit A #1-15
DST # 4
J-K-L
2017.04.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 637121

DST#: 4

Test Start: 2017.04.04 @ 11:41:15

GENERAL INFORMATION:

Formation: **J-K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:14:00

Time Test Ended: 18:37:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 3960.00 ft (KB) To 4042.00 ft (KB) (TVD)

Reference Elevations: 2577.00 ft (KB)

Total Depth: 4042.00 ft (KB) (TVD)

2567.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 57.75 psig @ 4037.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.04 End Date: 2017.04.04

Last Calib.: 2017.04.04

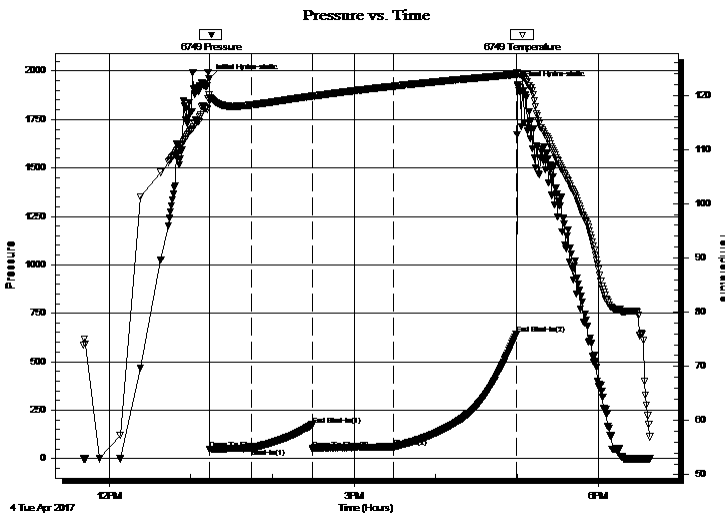
Start Time: 11:41:15 End Time: 18:37:30

Time On Btm: 2017.04.04 @ 13:13:45

Time Off Btm: 2017.04.04 @ 17:00:30

TEST COMMENT: IF: Built to 1/2" blow and died to weak surface blow
IS: No return blow
FF: Built to 1" blow and died to weak surface blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.22	120.02	Initial Hydro-static
1	46.70	119.02	Open To Flow (1)
32	53.61	118.22	Shut-In(1)
76	174.12	119.84	End Shut-In(1)
76	49.46	119.81	Open To Flow (2)
136	57.75	121.65	Shut-In(2)
226	643.57	123.85	End Shut-In(2)
227	1927.19	123.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	ocm 3%o 97%m	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

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

Job Ticket: 637121

DST#: 4

ATTN: Corey Baker

Test Start: 2017.04.04 @ 11:41:15

Tool Information

Drill Pipe:	Length: 3706.00 ft	Diameter: 3.80 inches	Volume: 51.99 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 53.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3960.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	105.00 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			3938.00	
Shut In Tool	5.00			3943.00	
Hydraulic tool	5.00			3948.00	
Safety Joint	3.00			3951.00	
Packer	5.00			3956.00	23.00 Bottom Of Top Packer
Packer	4.00			3960.00	
Stubb	1.00			3961.00	
Perforations	5.00			3966.00	
Change Over Sub	1.00			3967.00	
Drill Pipe	64.00			4031.00	
Change Over Sub	1.00			4032.00	
Perforations	5.00			4037.00	
Recorder	0.00	8672	Inside	4037.00	
Recorder	0.00	6749	Outside	4037.00	
Bullnose	5.00			4042.00	82.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

Job Ticket: 637121

DST#: 4

ATTN: Corey Baker

Test Start: 2017.04.04 @ 11:41:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	ocm 3%o 97%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

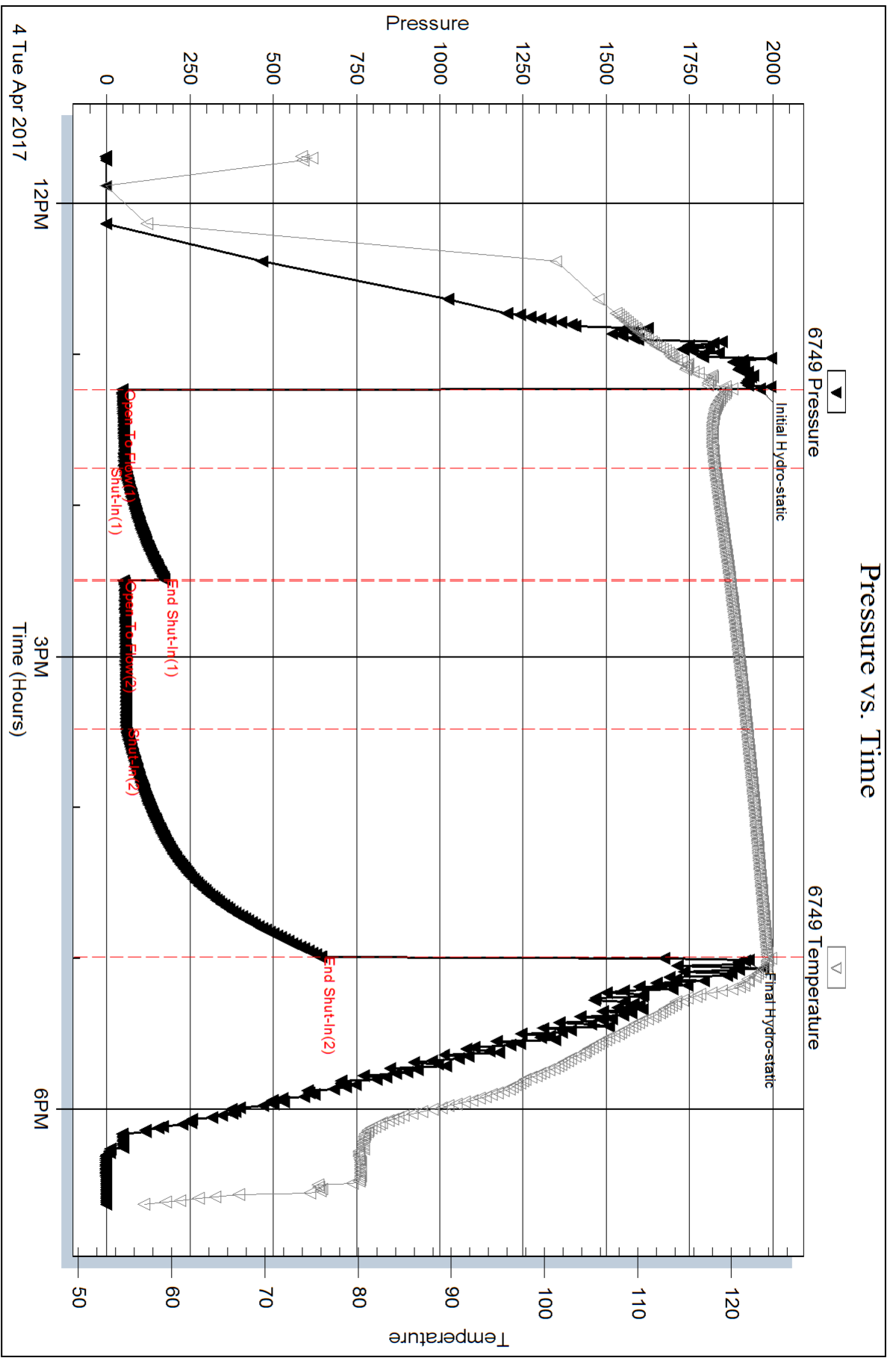
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Corey Baker

Jamison Unit A #1-15

5-14s27w Gove,KS

Start Date: 2017.04.05 @ 20:08:15

End Date: 2017.04.06 @ 03:26:00

Job Ticket #: 63713 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.07 @ 10:18:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 63713

DST#: 5

Test Start: 2017.04.05 @ 20:08:15

GENERAL INFORMATION:

Formation: **Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:44:00

Time Test Ended: 03:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4222.00 ft (KB) To 4280.00 ft (KB) (TVD)

Reference Elevations: 2577.00 ft (KB)

Total Depth: 4280.00 ft (KB) (TVD)

2567.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 57.03 psig @ 4275.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.05 End Date: 2017.04.06

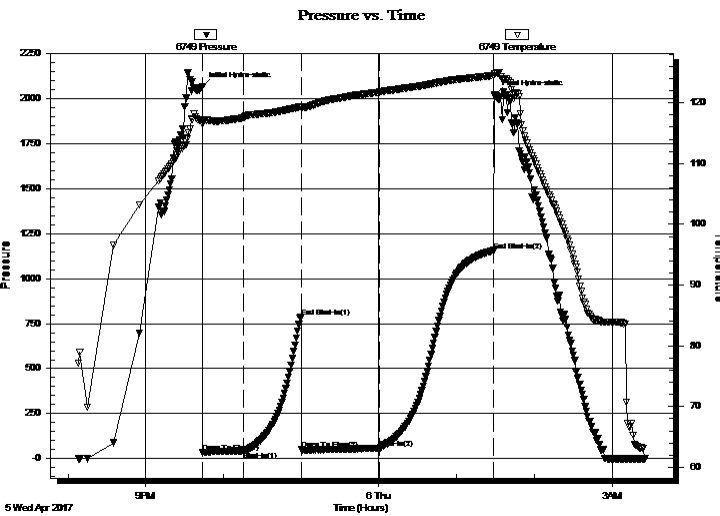
Last Calib.: 2017.04.06

Start Time: 20:08:15 End Time: 03:26:00

Time On Btm: 2017.04.05 @ 21:43:45

Time Off Btm: 2017.04.06 @ 01:29:45

TEST COMMENT: IF: Built to weak surface blow
IS: No return blow
FF: Built to 4" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.80	117.23	Initial Hydro-static
1	32.79	116.44	Open To Flow (1)
32	41.51	117.54	Shut-In(1)
77	785.23	119.37	End Shut-In(1)
77	49.74	119.12	Open To Flow (2)
137	57.03	121.74	Shut-In(2)
225	1156.47	124.48	End Shut-In(2)
226	2024.64	124.78	Final Hydro-static

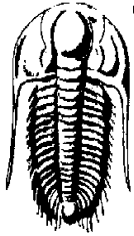
Recovery

Length (ft)	Description	Volume (bbl)
61.00	ocgm 2%o 3%g 95%m (collar)	0.30
	GIP= 183 ft (collars)	0.90

* 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

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 63713

DST#: 5

Test Start: 2017.04.05 @ 20:08:15

Tool Information

Drill Pipe:	Length: 3983.00 ft	Diameter: 3.80 inches	Volume: 55.87 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4222.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	81.00 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			4200.00	
Shut In Tool	5.00			4205.00	
Hydraulic tool	5.00			4210.00	
Safety Joint	3.00			4213.00	
Packer	5.00			4218.00	23.00 Bottom Of Top Packer
Packer	4.00			4222.00	
Stubb	1.00			4223.00	
Perforations	4.00			4227.00	
Change Over Sub	1.00			4228.00	
Drill Pipe	31.00			4259.00	
Change Over Sub	1.00			4260.00	
Perforations	15.00			4275.00	
Recorder	0.00	8672	Inside	4275.00	
Recorder	0.00	6749	Outside	4275.00	
Bullnose	5.00			4280.00	58.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

Job Ticket: 63713

DST#: 5

ATTN: Corey Baker

Test Start: 2017.04.05 @ 20:08:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
61.00	ocgm 2%o 3%g 95%m (collar)	0.300
	GP= 183 ft (collars)	0.900

Total Length: 61.00 ft Total Volume: 1.200 bbl

Num Fluid Samples: 0

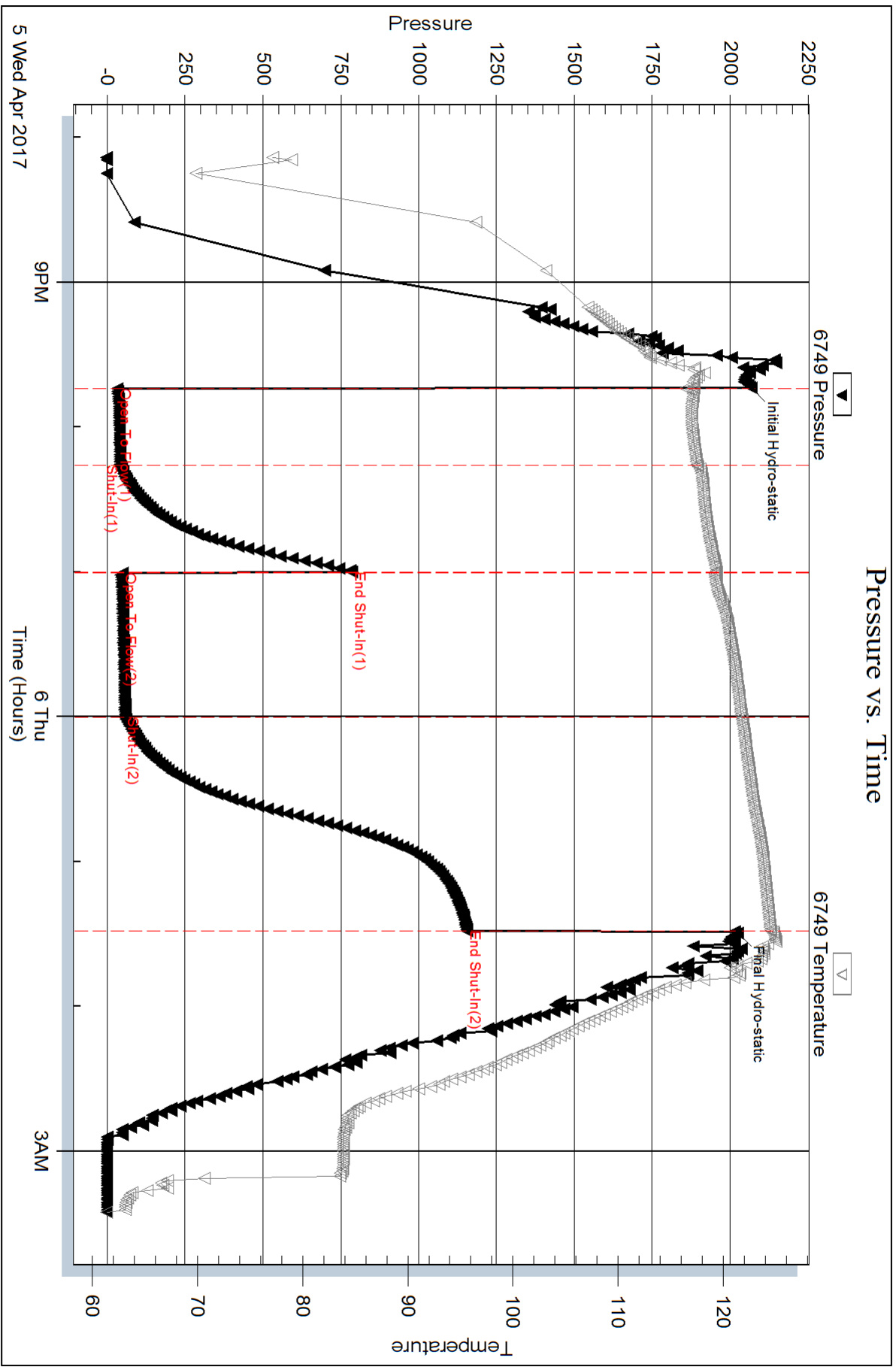
Num Gas Bombs: 0

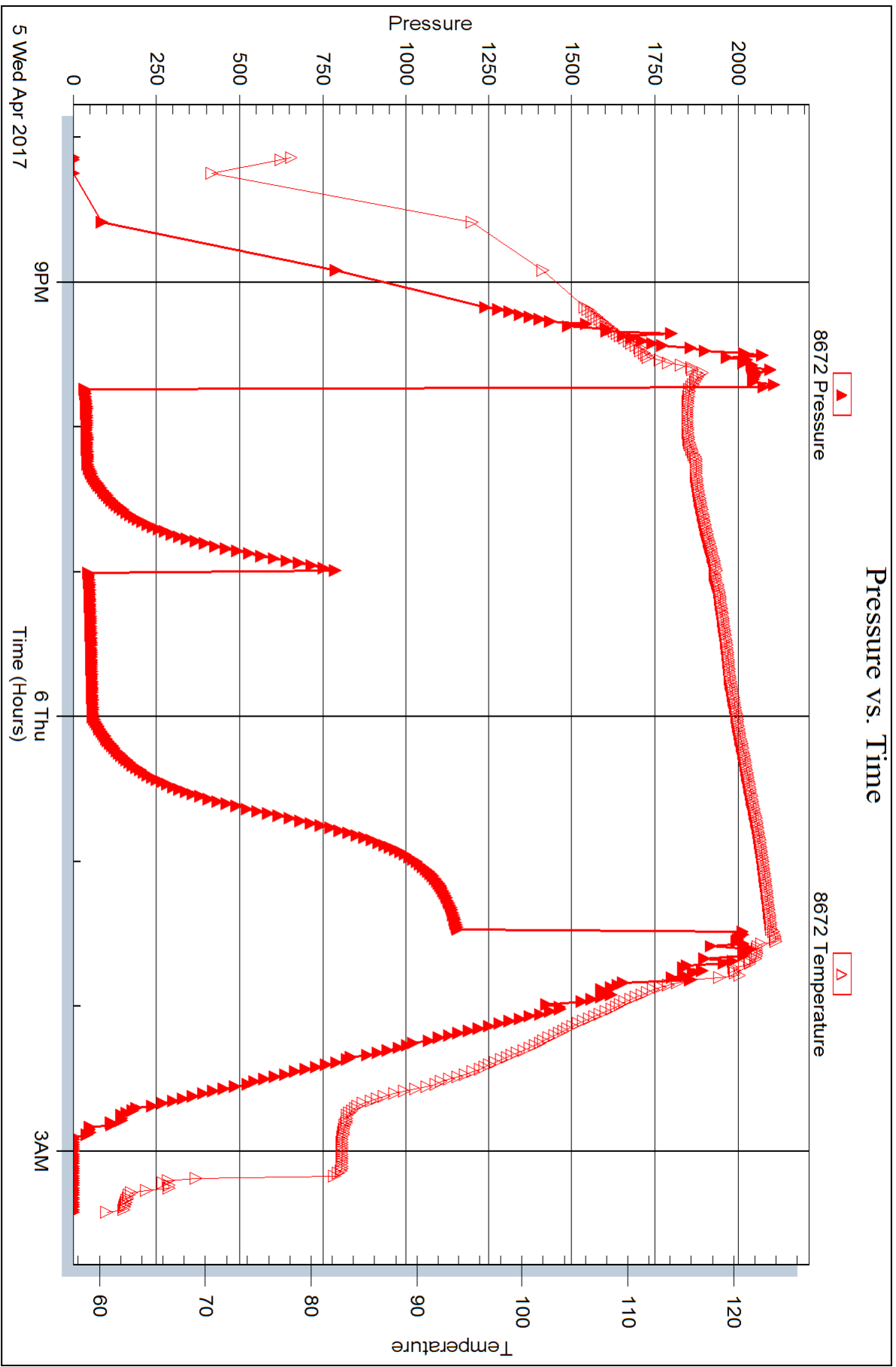
Serial #:

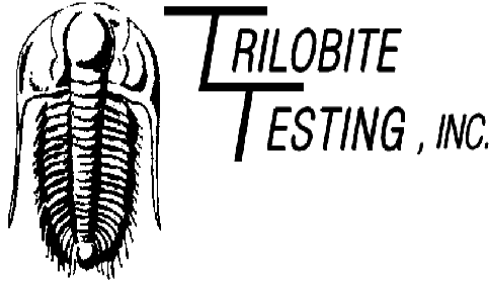
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Corey Baker

Jamison Unit A #1-15

5-14s27w Gove,KS

Start Date: 2017.04.06 @ 13:58:15

End Date: 2017.04.06 @ 21:26:15

Job Ticket #: 63714 DST #: 6

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

Printed: 2017.04.07 @ 10:17:58



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 63714

DST#: 6

Test Start: 2017.04.06 @ 13:58:15

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:32:00

Time Test Ended: 21:26:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4294.00 ft (KB) To 4356.00 ft (KB) (TVD)

Reference Elevations: 2577.00 ft (KB)

Total Depth: 4356.00 ft (KB) (TVD)

2567.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 306.74 psig @ 4351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.06

End Date:

2017.04.06

Last Calib.:

2017.04.06

Start Time:

13:58:15

End Time:

21:26:15

Time On Btm:

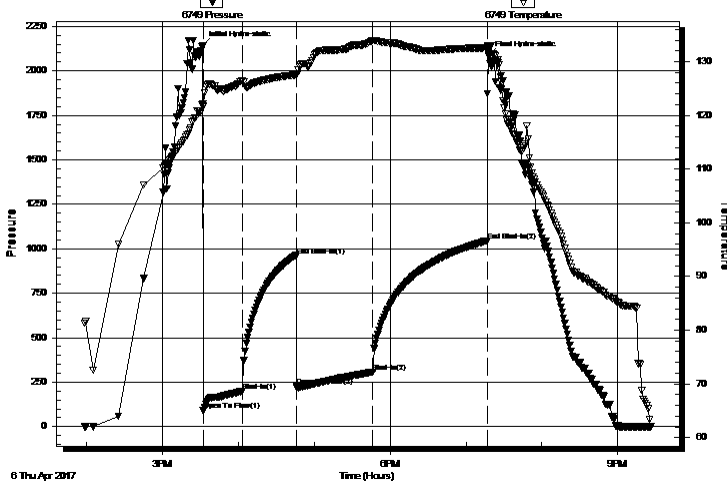
2017.04.06 @ 15:31:45

Time Off Btm:

2017.04.06 @ 19:18:00

TEST COMMENT: IF:BOB in 7 min.
IS:Weak surface blow
FF:BOB in 19 min
FS:No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2141.08	122.17	Initial Hydro-static
1	89.28	121.55	Open To Flow (1)
32	199.44	126.49	Shut-In(1)
74	959.36	127.55	End Shut-In(1)
75	226.88	127.37	Open To Flow (2)
135	306.74	133.90	Shut-In(2)
226	1044.62	132.58	End Shut-In(2)
227	2088.02	132.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
244.00	gco 20%g 80%o (collars)	1.20
124.00	gcom 20%g 40%o 40%m	1.74
124.00	gco 20%g 80%o	1.74
248.00	gco 30%g 70%o	3.48

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

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

ATTN: Corey Baker

Job Ticket: 63714

DST#: 6

Test Start: 2017.04.06 @ 13:58:15

Tool Information

Drill Pipe:	Length: 4050.00 ft	Diameter: 3.80 inches	Volume: 56.81 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4294.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	85.00 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			4272.00	
Shut In Tool	5.00			4277.00	
Hydraulic tool	5.00			4282.00	
Safety Joint	3.00			4285.00	
Packer	5.00			4290.00	23.00 Bottom Of Top Packer
Packer	4.00			4294.00	
Stubb	1.00			4295.00	
Perforations	4.00			4299.00	
Change Over Sub	1.00			4300.00	
Drill Pipe	31.00			4331.00	
Change Over Sub	1.00			4332.00	
Perforations	19.00			4351.00	
Recorder	0.00	8672	Inside	4351.00	
Recorder	0.00	6749	Outside	4351.00	
Bullnose	5.00			4356.00	62.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

5-14s27w Gove,KS

PO Box 8037
Wichita KS 67208

Jamison Unit A #1-15

Job Ticket: 63714

DST#: 6

ATTN: Corey Baker

Test Start: 2017.04.06 @ 13:58:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
244.00	gco 20%g 80%o (collars)	1.200
124.00	gcom 20%g 40%o 40%m	1.739
124.00	gco 20%g 80%o	1.739
248.00	gco 30%g 70%o	3.479

Total Length: 740.00 ft Total Volume: 8.157 bbl

Num Fluid Samples: 0

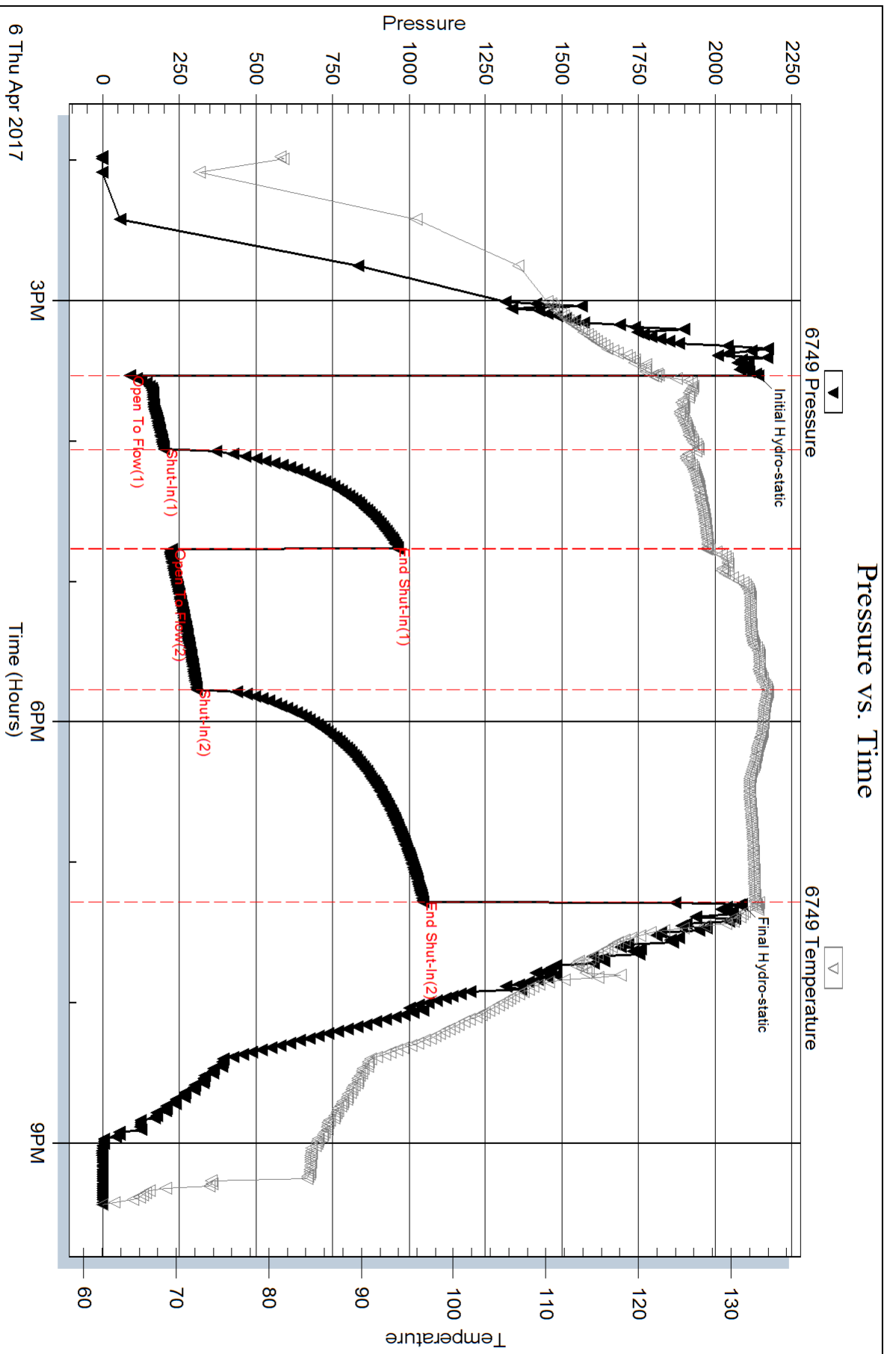
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API 36@ 60 corrected to 36





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63709**

Well Name & No. Jamison Unit "A" ~~1-5~~ 1-5 Test No. 1 Date 4-2-17
 Company Cobalt Energy LLC Elevation 2577 KB 2567 GL
 Address 115 S. Belmont #12 P.O. Box 887 Wichita KS 67208
 Co. Rep / Geo. Corey Baker Rig Murfin 21
 Location: Sec. 5 Twp. 14s Rge. 27w Co. Grove State KS

Interval Tested 3822-3870 Zone Tested E+F
 Anchor Length 48 Drill Pipe Run ~~3574~~ 3569 Mud Wt. 9.0
 Top Packer Depth 3817 Drill Collars Run ~~285~~ 244 Vis 52
 Bottom Packer Depth 3822 Wt. Pipe Run 0 WL 6.8
 Total Depth 3870 Chlorides 2000 ppm System LCM 4
 Blow Description IF: BOB in 2 Min
IS: No Return Blow
FF: BOB in 2 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>620</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>1178</u>	<u>SW</u>		<u>100</u>		

Rec Total 1798 BHT 118 Gravity — API RW 231 @ 71.8° F Chlorides 33000 ppm
 (A) Initial Hydrostatic 1861 Test \$1050.00/- T-On Location 07:15
 (B) First Initial Flow 99 Jars NC T-Started 08:48
 (C) First Final Flow 566 Safety Joint \$75.00/- T-Open 10:30
 (D) Initial Shut-In 1087 Circ Sub _____ T-Pulled 14:15
 (E) Second Initial Flow 565 Hourly Standby _____ T-Out 16:15
 (F) Second Final Flow 943 Mileage 140 RT = \$105.00/- Comments _____
 (G) Final Shut-In 1091 Sampler _____
 (H) Final Hydrostatic 1840 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1230
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90
 Sub Total \$1230.00/-

Approved By Corey Baker Our Representative Mike Roberts

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. **63710**

Well Name & No. Jamison Unit "A" #1-5 Test No. 2 Date 4-3-17
 Company Cobalt Energy LLC Elevation 2577 KB 2567 GL
 Address 115 S. Belmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Corey Baker Rig Murfin 21
 Location: Sec. 5 Twp. 14s Rge. 27w Co Grove State KS

Interval Tested 3894-3930 Zone Tested H
 Anchor Length 36 Drill Pipe Run 3639 Mud Wt. 9.1
 Top Packer Depth 3889 Drill Collars Run 244 Vis 61
 Bottom Packer Depth 3894 Wt. Pipe Run _____ WL 7.2
 Total Depth 3930 Chlorides 3000 ppm System LCM 4
 Blow Description IF: Built to 1 1/2" Blow
IS: No Return Blow
FF: Built to 2" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>61</u>	<u>OCM</u>	<u>40</u>		<u>60</u>	
<u>122</u>	<u>OCM</u>	<u>5</u>		<u>95</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 183 BHT 121 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1904 Test \$1050.00/- T-On Location 01:20
 (B) First Initial Flow 16 Jars T-Started 01:48
 (C) First Final Flow 41 Safety Joint \$75.00/- T-Open 03:36
 (D) Initial Shut-In 1017 Circ Sub NV T-Pulled 07:21
 (E) Second Initial Flow 52 Hourly Standby T-Out 09:02
 (F) Second Final Flow 83 Mileage 140RT = \$105.00/- Comments _____
 (G) Final Shut-In 1037 Sampler _____
 (H) Final Hydrostatic 1907 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total \$1230.00/-

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 60 Extra Copies _____
 Final Shut-In 90 Sub Total 0
 Total 1230
 MP/DST Disc't _____

Approved By Corey Baker Our Representative Mike Roberts
 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. **63711**

Well Name & No. Jamisona Unit 'A' 4-5 Test No. 3 Date 4-3-17
 Company Cobalt Energy LLC Elevation 2577 KB 2567 GL
 Address 115 S. Belmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Corey Baker Rig Murfin
 Location: Sec. 5 Twp. 14s Rge. 27W Co. Grove State KS

Interval Tested 3930-3965 Zone Tested I
 Anchor Length 35 Drill Pipe Run 3668 Mud Wt. 9.0
 Top Packer Depth 3925 Drill Collars Run 244 Vis 54
 Bottom Packer Depth 3930 Wt. Pipe Run 6 WL 8.8
 Total Depth 3965 Chlorides 4000 ppm System LCM 3
 Blow Description IF: Built to 2 1/2" Blow
IS: No Return Blow
FF: Built to 5" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>Ø</u>	<u>GIP = 246'</u>				
<u>61</u>	<u>gcmo (collar)</u>	<u>2</u>	<u>50</u>	<u>48</u>	
<u>61</u>	<u>gcmo (collar)</u>	<u>5</u>	<u>55</u>	<u>40</u>	

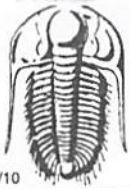
Rec Total 122 BHT 120
 (A) Initial Hydrostatic 1922
 (B) First Initial Flow 15
 (C) First Final Flow 29
 (D) Initial Shut-In 1141
 (E) Second Initial Flow 35
 (F) Second Final Flow 54
 (G) Final Shut-In 1161
 (H) Final Hydrostatic 1867

Gravity — API RW — @ — °F Chlorides — ppm
 Test \$1050.00/- T-On Location 15:50
 Jars T-Started 16:09
 Safety Joint \$75.00/- T-Open 17:50
 Circ Sub NL T-Pulled 21:35
 Hourly Standby T-Out 23:12
 Mileage 140RT = \$105.00/- Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total \$1230.00/- Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1230
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Approved By Corey Baker Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63712**

Well Name & No. Jamison Unit 'A' 1-5 Test No. 4 Date 4-4-17
 Company Cobalt Energy LLC Elevation 2577 KB 2567 GL
 Address 115 S. Belmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Corey Baker Rig Martin 21
 Location: Sec. 5 Twp. 14s Rge. 27w Co Grove State KS

Interval Tested 3960-4042 Zone Tested J-K-L
 Anchor Length 82 Drill Pipe Run 3706 Mud Wt. 9.0
 Top Packer Depth 3955 Drill Collars Run 244 Vis 54
 Bottom Packer Depth 3960 Wt. Pipe Run Ø WL 8.8
 Total Depth 4042 Chlorides 4000 ppm System LCM 4
 Blow Description IF: Built to 1/2" Died to Weak Surface Blow
IS: No Return Blow
FF: Built to 1" Died to Weak Surface Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OCM</u>	<u>3</u>		<u>97</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 124 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1961</u>	<input checked="" type="checkbox"/> Test <u>#1150.00/-</u>	T-On Location <u>11:14</u>
(B) First Initial Flow <u>46</u>	<input type="checkbox"/> Jars	T-Started <u>11:41</u>
(C) First Final Flow <u>53</u>	<input checked="" type="checkbox"/> Safety Joint <u>#75.00/-</u>	T-Open <u>13:15</u>
(D) Initial Shut-In <u>174</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>17:00</u>
(E) Second Initial Flow <u>49</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:37</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage <u>140 RT: #105.00/-</u>	Comments
(G) Final Shut-In <u>643</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1927</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1330</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>#1330.00/-</u>	

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Approved By Corey Baker Our Representative Mike Roberts

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. **63713**

Well Name & No. Jamison Unit 'A' #1-5 Test No. 5 Date 4-5-17
 Company Cobalt Energy LLC Elevation 2577 KB 2567 GL
 Address 115 S. Belmont #12 P.O. Box 8032 Wichita KS 67208
 Co. Rep / Geo. Coley Baker Rig Murfin 21
 Location: Sec. 5 Twp. 14s Rge. 27W Co. Grove State KS

Interval Tested 4222-4280 Zone Tested Ft. Scott
 Anchor Length ~~4222~~ 58' Drill Pipe Run 3983 Mud Wt. 9.3
 Top Packer Depth ~~4222~~ 4217 Drill Collars Run 244 Vis 58
 Bottom Packer Depth 4222 Wt. Pipe Run ∅ WL 8.8
 Total Depth 4280 Chlorides 4000 ppm System LCM 2

Blow Description IF: Boilt to Weak Surface Blow
IS: No Return Blow
FF: Boilt to 4" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>61</u>	<u>0cgm</u>	<u>3</u>	<u>2</u>	<u>95</u>	
<u>61</u>	<u>GIP=183'</u>				

Rec Total 61 BHT 125 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2068</u>	<input checked="" type="checkbox"/> Test	<u>\$1150.00/-</u>	T-On Location	<u>16:50</u>
(B) First Initial Flow	<u>32</u>	<input type="checkbox"/> Jars		T-Started	<u>20:08</u>
(C) First Final Flow	<u>41</u>	<input checked="" type="checkbox"/> Safety Joint	<u>\$75.00/-</u>	T-Open	<u>21:45</u>
(D) Initial Shut-In	<u>785</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NC</u>	T-Pulled	<u>01:30</u>
(E) Second Initial Flow	<u>49</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>03:26</u>
(F) Second Final Flow	<u>57</u>	<input checked="" type="checkbox"/> Mileage	<u>140 RT = \$105.00/-</u>	Comments	
(G) Final Shut-In	<u>1156</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2024</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Sub Total \$1330.00/-
 Approved By Coley Baker Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63714**

Well Name & No. Jamison Unit 'A' #1-5 Test No. 6 Date 4-6-17
 Company Cobalt Energy LLC Elevation 2577 KB 2567 GL
 Address 115 S. Belmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Coley Baker Rig Murfin 21
 Location: Sec. 5 Twp. 14s Rge. 27W Co. Gove State KS

Interval Tested 4294-4356 Zone Tested Miss
 Anchor Length 62 Drill Pipe Run 4050 Mud Wt. 9.2
 Top Packer Depth 4289 Drill Collars Run 244 Vis 54
 Bottom Packer Depth 4294 Wt. Pipe Run Ø WL 8.0
 Total Depth 4356 Chlorides 3500 ppm System LCM 3
 Blow Description IF: BOB in 7 Min
IS: Built to weak surface Blow
FF: BOB in 19 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>248</u>	<u>900</u>	<u>30</u>	<u>70</u>		
<u>124</u>	<u>900</u>	<u>20</u>	<u>80</u>		
<u>124</u>	<u>800m</u>	<u>20</u>	<u>40</u>		<u>40</u>
<u>244</u>	<u>900 (Collars)</u>	<u>20</u>	<u>80</u>		
	<u>GIP = 124'</u>	<u>100</u>			

Rec Total 740 BHT 133 Gravity 36 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2141</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>13:25</u>
(B) First Initial Flow <u>89</u>	<input type="checkbox"/> Jars	T-Started <u>13:58</u>
(C) First Final Flow <u>199</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>15:32</u>
(D) Initial Shut-In <u>959</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>19:17</u>
(E) Second Initial Flow <u>226</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>21:26</u>
(F) Second Final Flow <u>306</u>	<input checked="" type="checkbox"/> Mileage <u>140 RT = \$105.00/-</u>	Comments
(G) Final Shut-In <u>1044</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2088</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1330</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Sub Total 1330

Approved By Coley Baker Our Representative M. Roberts

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