



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #1-32

32-3s-26w Decatur KS

Start Date: 2014.07.15 @ 10:08:00

End Date: 2014.07.15 @ 16:27:09

Job Ticket #: 58272 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.21 @ 09:36:02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58272

DST#: 1

ATTN: Larry Nicholson

Test Start: 2014.07.15 @ 10:08:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:58:10

Time Test Ended: 16:27:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 78

Interval: 3376.00 ft (KB) To 3406.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3406.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 277.12 psig @ 3377.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.15

End Date:

2014.07.15

Last Calib.:

2014.07.15

Start Time:

10:08:01

End Time:

16:27:10

Time On Btm:

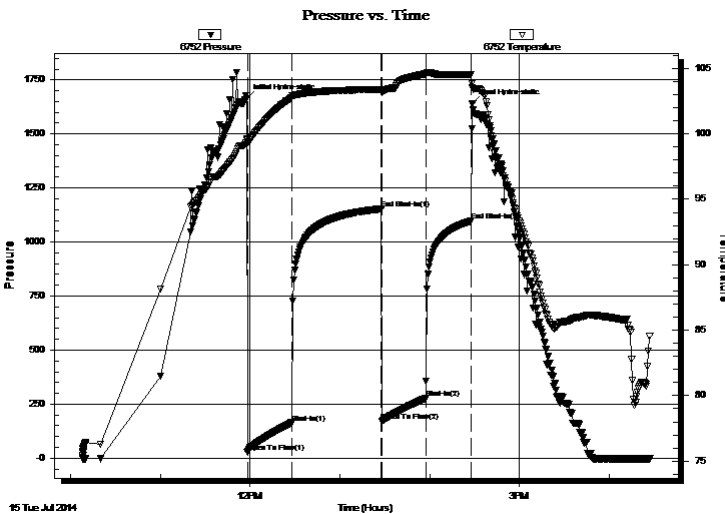
2014.07.15 @ 11:57:50

Time Off Btm:

2014.07.15 @ 14:28:30

TEST COMMENT: 30 IF - 1/2" blow built to BoB @ 7 mins
60 ISI - No return
30 FF - Surface blow built to BoB @ 8 mins
30 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1663.98	99.59	Initial Hydro-static
1	26.95	99.34	Open To Flow (1)
30	163.92	102.75	Shut-In(1)
90	1153.11	103.41	End Shut-In(1)
91	170.26	103.20	Open To Flow (2)
120	277.12	104.58	Shut-In(2)
150	1097.62	104.55	End Shut-In(2)
151	1638.78	103.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW - 35%M - 65%W	0.30
441.00	MCW - 5%M - 95%W	6.19
30.00	MCW - 30%M - 70%W	0.42

Gas Rates

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



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32-3s-26w Decatur KS

PO Box 8037
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Ritter A #1-32

ATTN: Larry Nicholson

Job Ticket: 58272

DST#: 1

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Time Tool Opened: 11:58:10

Time Test Ended: 16:27:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 78

Interval: 3376.00 ft (KB) To 3406.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3406.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 3377.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.15 End Date: 2014.07.15

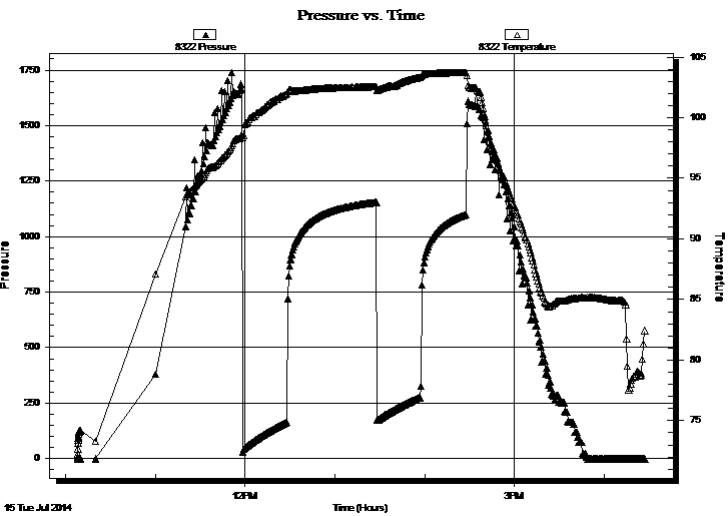
Last Calib.: 2014.07.15

Start Time: 10:08:04 End Time: 16:27:13

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 1/2" blow built to BoB @ 7 mins
60 ISI - No return
30 FF - Surface blow built to BoB @ 8 mins
30 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW - 35%M - 65%W	0.30
441.00	MCW - 5%M - 95%W	6.19
30.00	MCW - 30%M - 70%W	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58272

DST#: 1

ATTN: Larry Nicholson

Test Start: 2014.07.15 @ 10:08:00

Tool Information

Drill Pipe:	Length: 3299.00 ft	Diameter: 3.80 inches	Volume: 46.28 bbl	Tool Weight:	2500.00 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 46.58 bbl</u>	Tool Chased	5.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3376.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	57.00 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			3350.00	
Shut In Tool	5.00			3355.00	
Hydraulic tool	5.00			3360.00	
Jars	5.00			3365.00	
Safety Joint	2.00			3367.00	
Packer	5.00			3372.00	27.00 Bottom Of Top Packer
Packer	4.00			3376.00	
Stubb	1.00			3377.00	
Recorder	0.00	6752	Inside	3377.00	
Recorder	0.00	8322	Outside	3377.00	
Perforations	26.00			3403.00	
Bullnose	3.00			3406.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58272

DST#: 1

ATTN: Larry Nicholson

Test Start: 2014.07.15 @ 10:08:00

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:

46000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCW - 35%M - 65%W	0.295
441.00	MCW - 5%M - 95%W	6.186
30.00	MCW - 30%M - 70%W	0.421

Total Length: 531.00 ft Total Volume: 6.902 bbl

Num Fluid Samples: 0

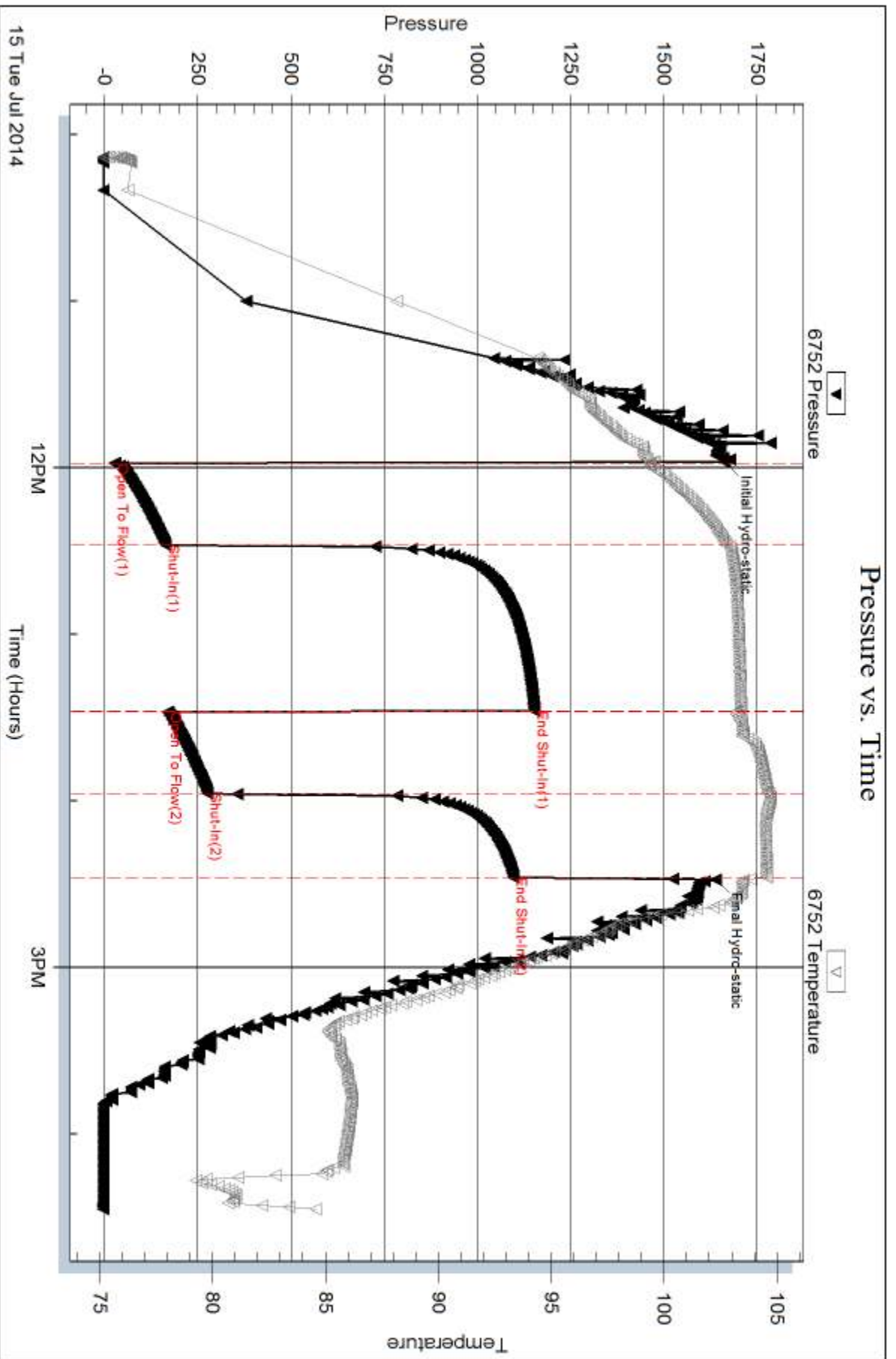
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .115 @ 91.6 DEG F

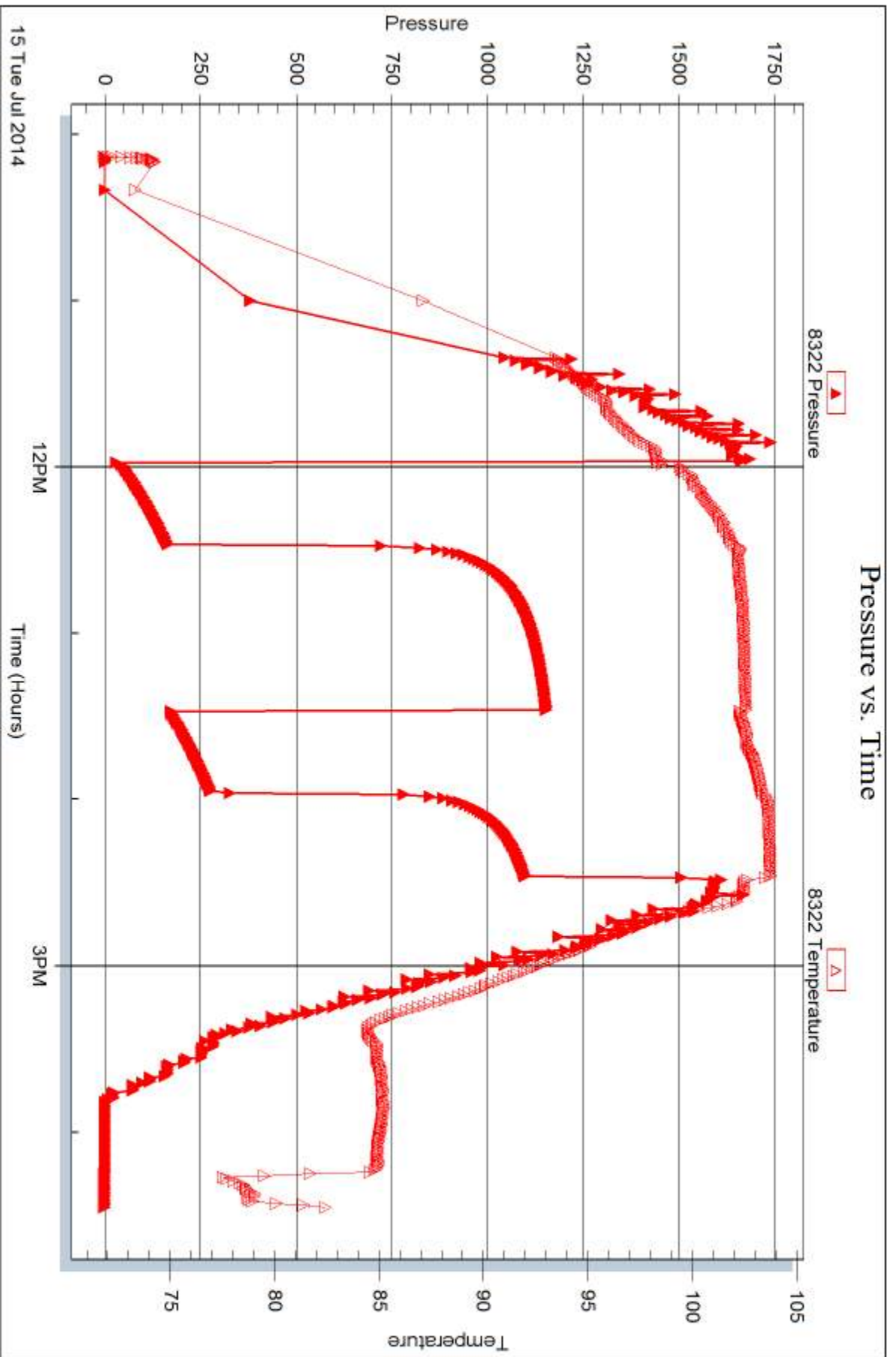


Serial #: 8322

Outside Cobalt Energy LLC

Ritter A #1-32

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58272

Printed: 2014.07.21 @ 09:36:04



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #1-32

32-3s-26w Decatur KS

Start Date: 2014.07.16 @ 09:15:00

End Date: 2014.07.16 @ 16:48:50

Job Ticket #: 58273 DST #: 2

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

Printed: 2014.07.21 @ 09:35:36



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58273

DST#: 2

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 09:15:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:56:30

Time Test Ended: 16:48:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3488.00 ft (KB) To 3524.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3524.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 108.24 psig @ 3489.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.16

End Date:

2014.07.16

Last Calib.:

2014.07.16

Start Time: 09:15:01

End Time:

16:48:50

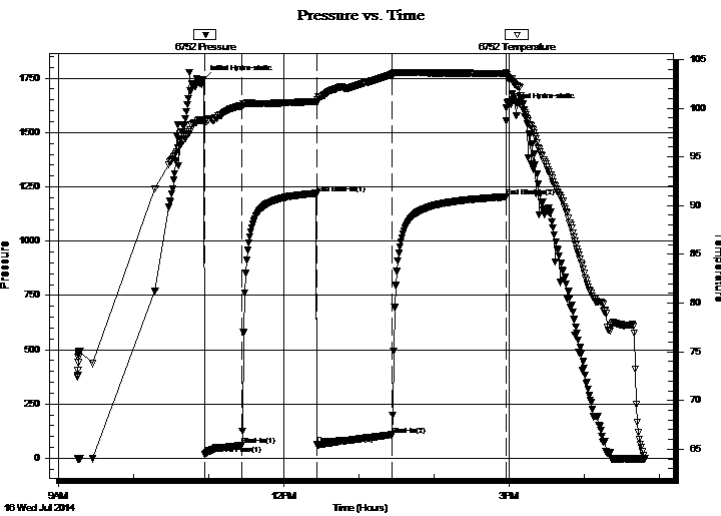
Time On Btm:

2014.07.16 @ 10:55:40

Time Off Btm:

2014.07.16 @ 14:58:09

TEST COMMENT: 30 IF - 1/4" blow built to 6 1/2"
60 ISI - No return
60 FF - Surface blow started @ 1 min built to 9 1/2"
90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.16	98.83	Initial Hydro-static
1	16.73	98.57	Open To Flow (1)
31	59.35	100.22	Shut-In(1)
91	1219.92	100.68	End Shut-In(1)
91	63.36	100.53	Open To Flow (2)
151	108.24	103.45	Shut-In(2)
242	1204.13	103.58	End Shut-In(2)
243	1615.52	103.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM - 45%W - 55%M	0.30
63.00	MCW - 10%M - 90%W	0.88
63.00	MCW - 20%M - 80%W	0.88
4.00	MCW - 50%M - 50%W	0.06

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58273

DST#: 2

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 09:15:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:56:30

Time Test Ended: 16:48:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3488.00 ft (KB) To 3524.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3524.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 3489.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.16

End Date:

2014.07.16

Last Calib.:

2014.07.16

Start Time: 09:15:01

End Time:

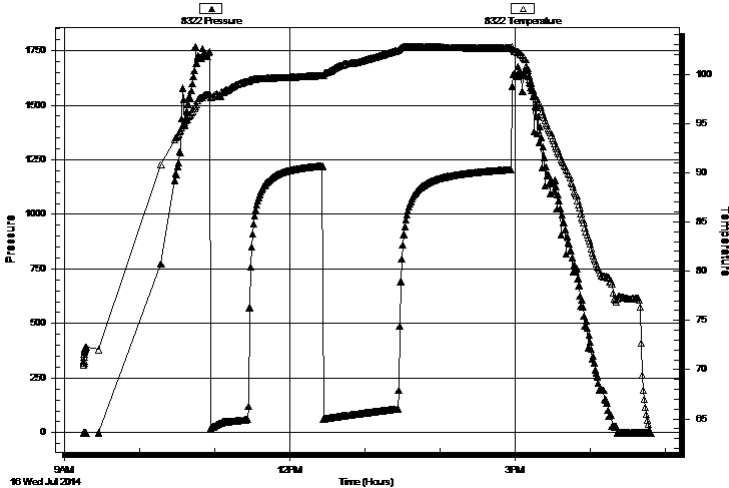
16:48:40

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 1/4" blow built to 6 1/2"
60 ISI - No return
60 FF - Surface blow started @ 1 min built to 9 1/2"
90 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM - 45%W - 55%M	0.30
63.00	MCW - 10%M - 90%W	0.88
63.00	MCW - 20%M - 80%W	0.88
4.00	MCW - 50%M - 50%W	0.06

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

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58273

DST#: 2

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 09:15:00

Tool Information

Drill Pipe:	Length: 3424.00 ft	Diameter: 3.80 inches	Volume: 48.03 bbl	Tool Weight: 2500.00 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 48.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3488.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 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			3462.00	
Shut In Tool	5.00			3467.00	
Hydraulic tool	5.00			3472.00	
Jars	5.00			3477.00	
Safety Joint	2.00			3479.00	
Packer	5.00			3484.00	27.00 Bottom Of Top Packer
Packer	4.00			3488.00	
Stubb	1.00			3489.00	
Recorder	0.00	6752	Inside	3489.00	
Recorder	0.00	8322	Outside	3489.00	
Perforations	32.00			3521.00	
Bullnose	3.00			3524.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58273

DST#: 2

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 09:15:00

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:

78000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	WCM - 45%W - 55%M	0.295
63.00	MCW - 10%M - 90%W	0.884
63.00	MCW - 20%M - 80%W	0.884
4.00	MCW - 50%M - 50%W	0.056

Total Length: 190.00 ft

Total Volume: 2.119 bbl

Num Fluid Samples: 0

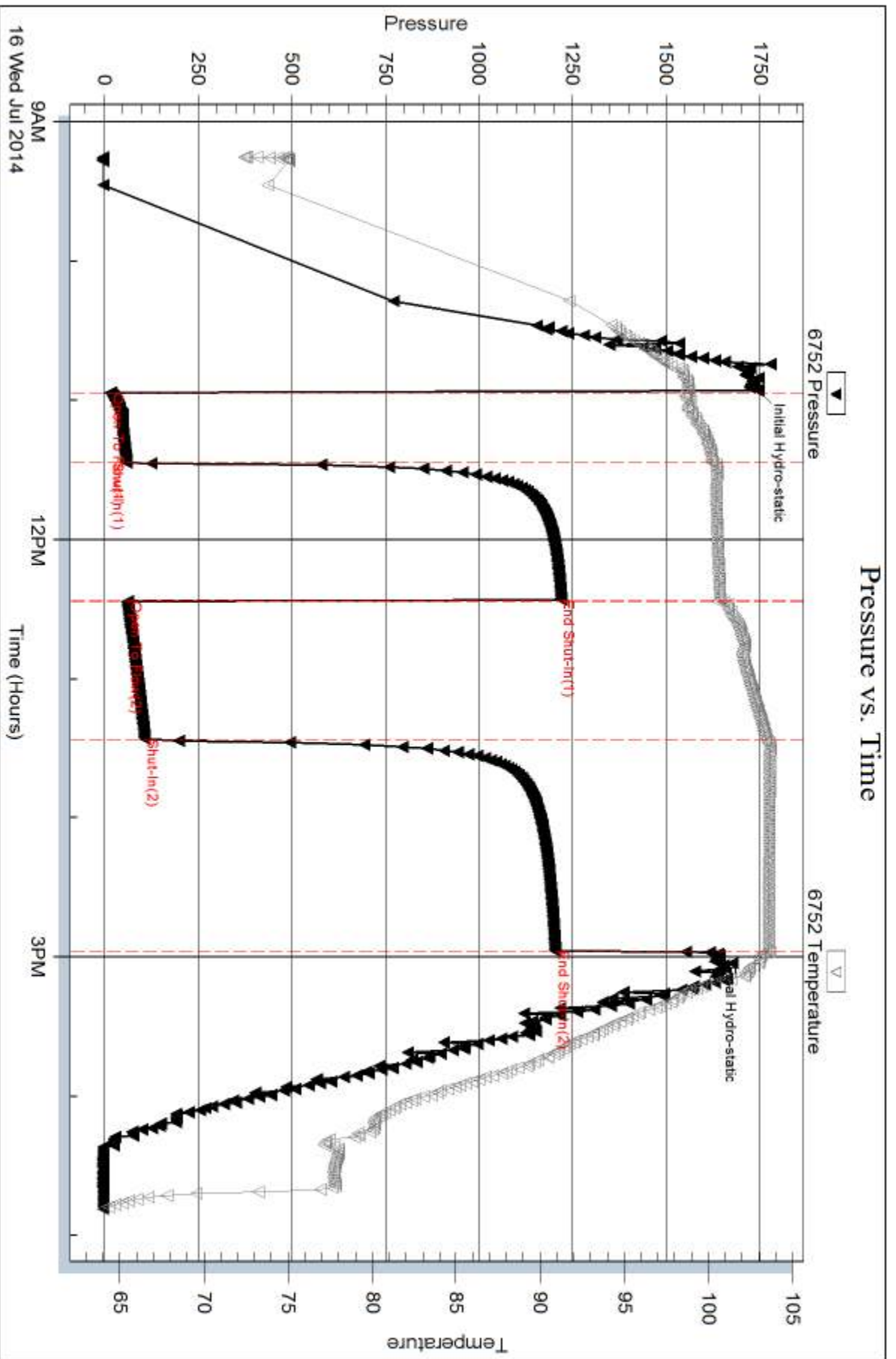
Num Gas Bombs: 0

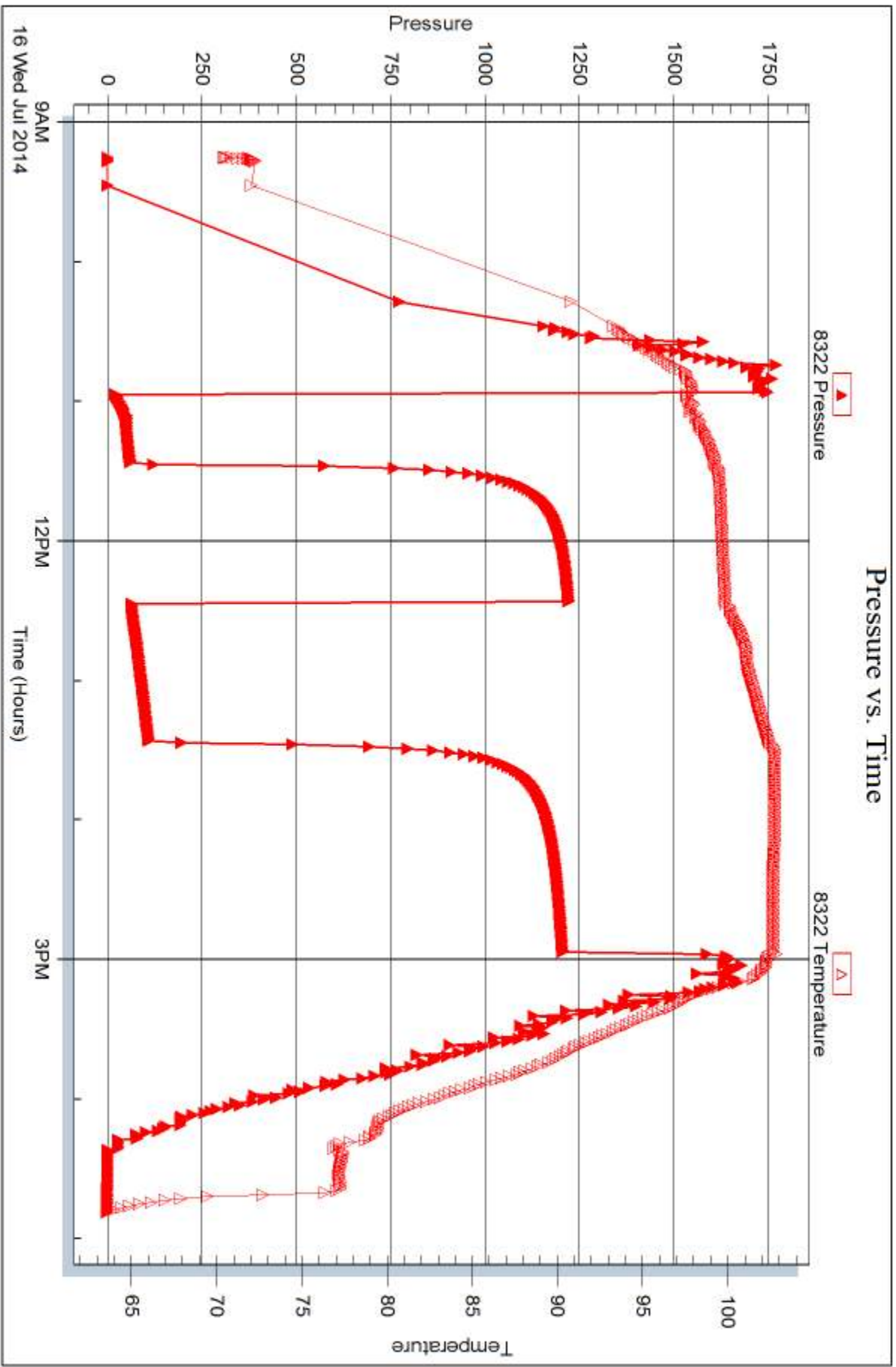
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .138 @ 61 DEG F







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #1-32

32-3s-26w Decatur KS

Start Date: 2014.07.16 @ 23:20:00

End Date: 2014.07.17 @ 08:26:40

Job Ticket #: 58274 DST #: 3

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

Printed: 2014.07.21 @ 09:35:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58274

DST#: 3

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 23:20:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:58:30

Time Test Ended: 08:26:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3522.00 ft (KB) To 3539.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3539.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 138.29 psig @ 3523.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.16

End Date:

2014.07.17

Last Calib.:

2014.07.17

Start Time: 23:20:01

End Time:

08:26:40

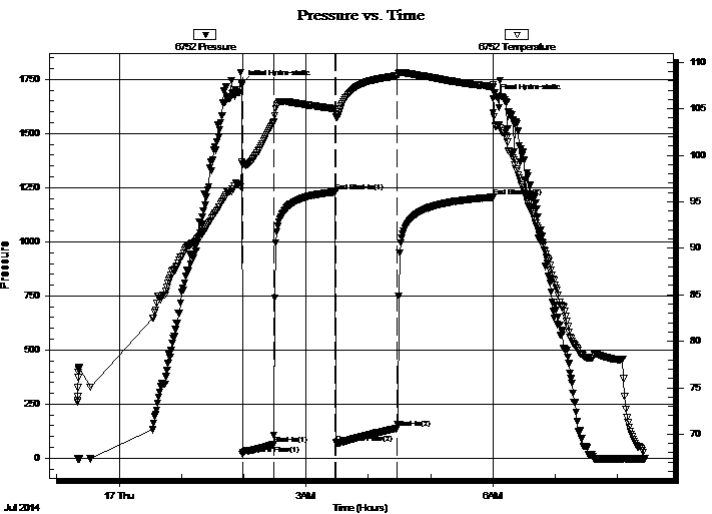
Time On Btm:

2014.07.17 @ 01:58:10

Time Off Btm:

2014.07.17 @ 06:00:09

TEST COMMENT: 30 IF - 1/2" blow built to BoB @ 6 mins
60 ISI - Surface blow built to 6 1/2"
60 FF - Surface blow built to BoB @ 8 mins
90 FSI - Surface blow built to BoB @ 33 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.14	99.31	Initial Hydro-static
1	19.13	99.05	Open To Flow (1)
31	63.01	103.49	Shut-In(1)
90	1230.30	105.01	End Shut-In(1)
91	70.74	104.50	Open To Flow (2)
150	138.29	108.55	Shut-In(2)
242	1205.67	107.36	End Shut-In(2)
242	1659.99	107.42	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
60.00	GOCM - 20%G - 25%o - 55%M	0.30
189.00	GO - 20%G - 80%o	2.65
126.00	GO - 10%G - 90%o	1.77
30.00	GO - 5%G - 95%o	0.42
0.00	850' GIP	0.00

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58274

DST#: 3

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 23:20:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:58:30

Time Test Ended: 08:26:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3522.00 ft (KB) To 3539.00 ft (KB) (TVD)

Total Depth: 3539.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2536.00 ft (KB)

2531.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 3523.00 ft (KB)

Start Date: 2014.07.16

End Date: 2014.07.17

Capacity: 8000.00 psig

Last Calib.: 2014.07.17

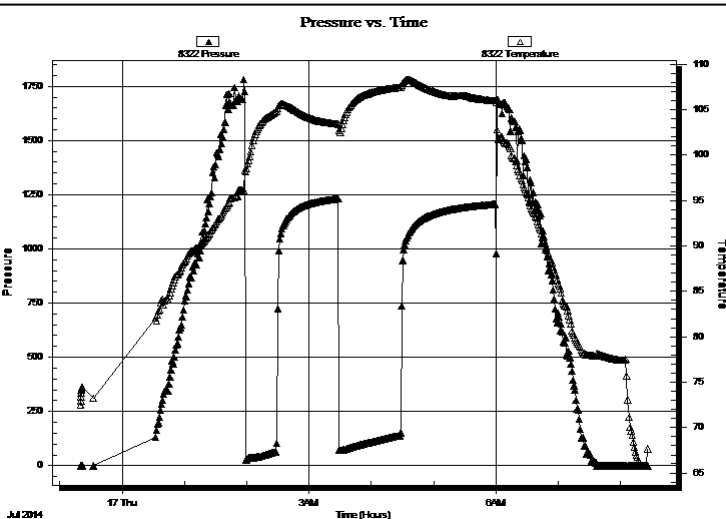
Start Time: 23:20:01

End Time: 08:26:40

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 1/2" blow built to BoB @ 6 mins
60 ISI - Surface blow built to 6 1/2"
60 FF - Surface blow built to BoB @ 8 mins
90 FSI - Surface blow built to BoB @ 33 mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM - 20%G - 25%o - 55%M	0.30
189.00	GO - 20%G - 80%o	2.65
126.00	GO - 10%G - 90%o	1.77
30.00	GO - 5%G - 95%o	0.42
0.00	850' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58274

DST#: 3

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 23:20:00

Tool Information

Drill Pipe:	Length: 3456.00 ft	Diameter: 3.80 inches	Volume: 48.48 bbl	Tool Weight:	2500.00 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 48.78 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3522.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	44.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: went through a bridge 20' off bottom

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3496.00	
Shut In Tool	5.00			3501.00	
Hydraulic tool	5.00			3506.00	
Jars	5.00			3511.00	
Safety Joint	2.00			3513.00	
Packer	5.00			3518.00	27.00 Bottom Of Top Packer
Packer	4.00			3522.00	
Stubb	1.00			3523.00	
Recorder	0.00	6752	Inside	3523.00	
Recorder	0.00	8322	Outside	3523.00	
Perforations	13.00			3536.00	
Bullnose	3.00			3539.00	17.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58274

DST#: 3

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 23:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 6.39 in³
Resistivity: ohm.m
Salinity: 2200.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 33.6 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

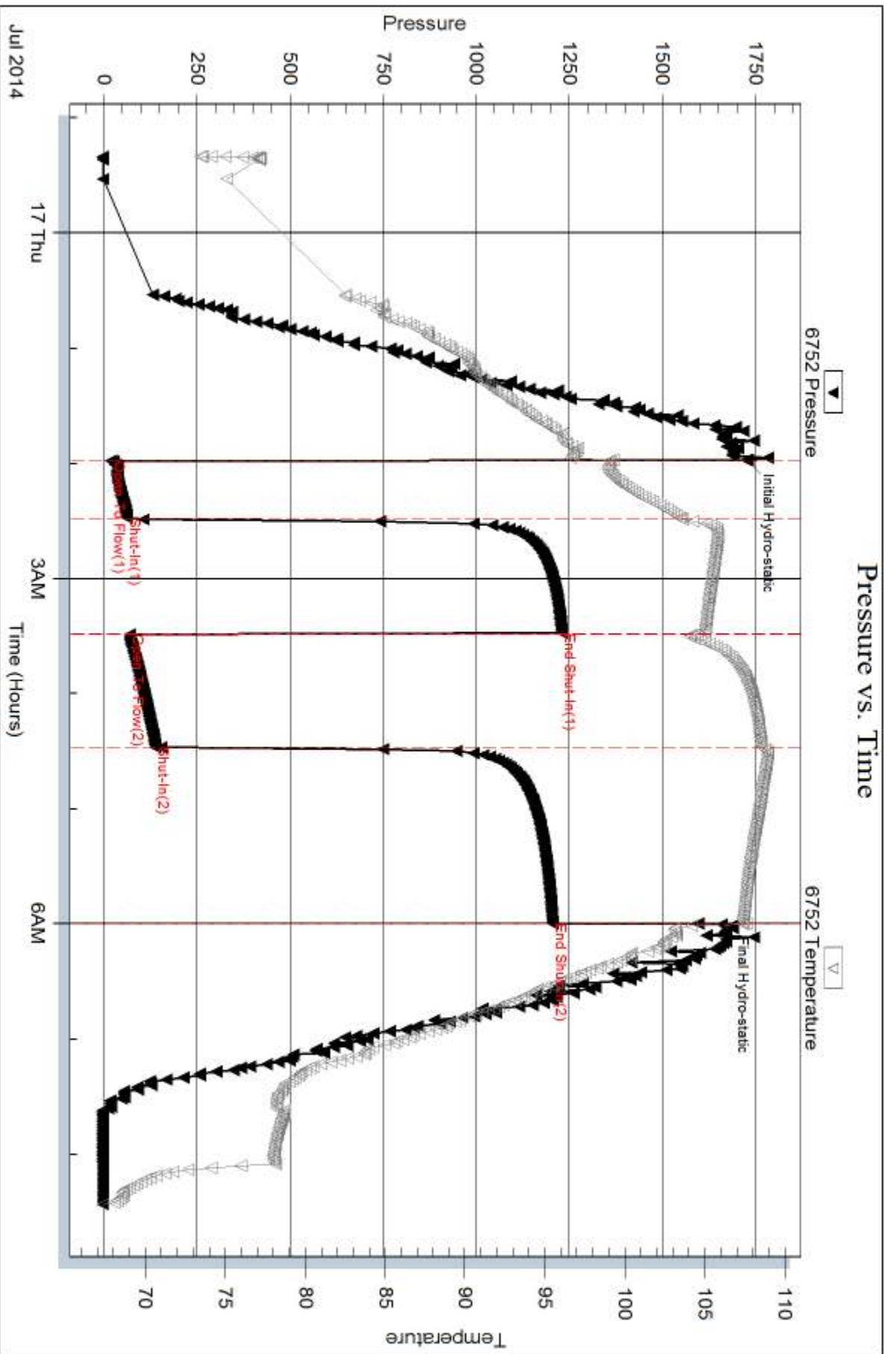
Length ft	Description	Volume bbl
60.00	GOCM - 20%G - 25%o - 55%M	0.295
189.00	GO - 20%G - 80%o	2.651
126.00	GO - 10%G - 90%o	1.767
30.00	GO - 5%G - 95%o	0.421
0.00	850' GIP	0.000

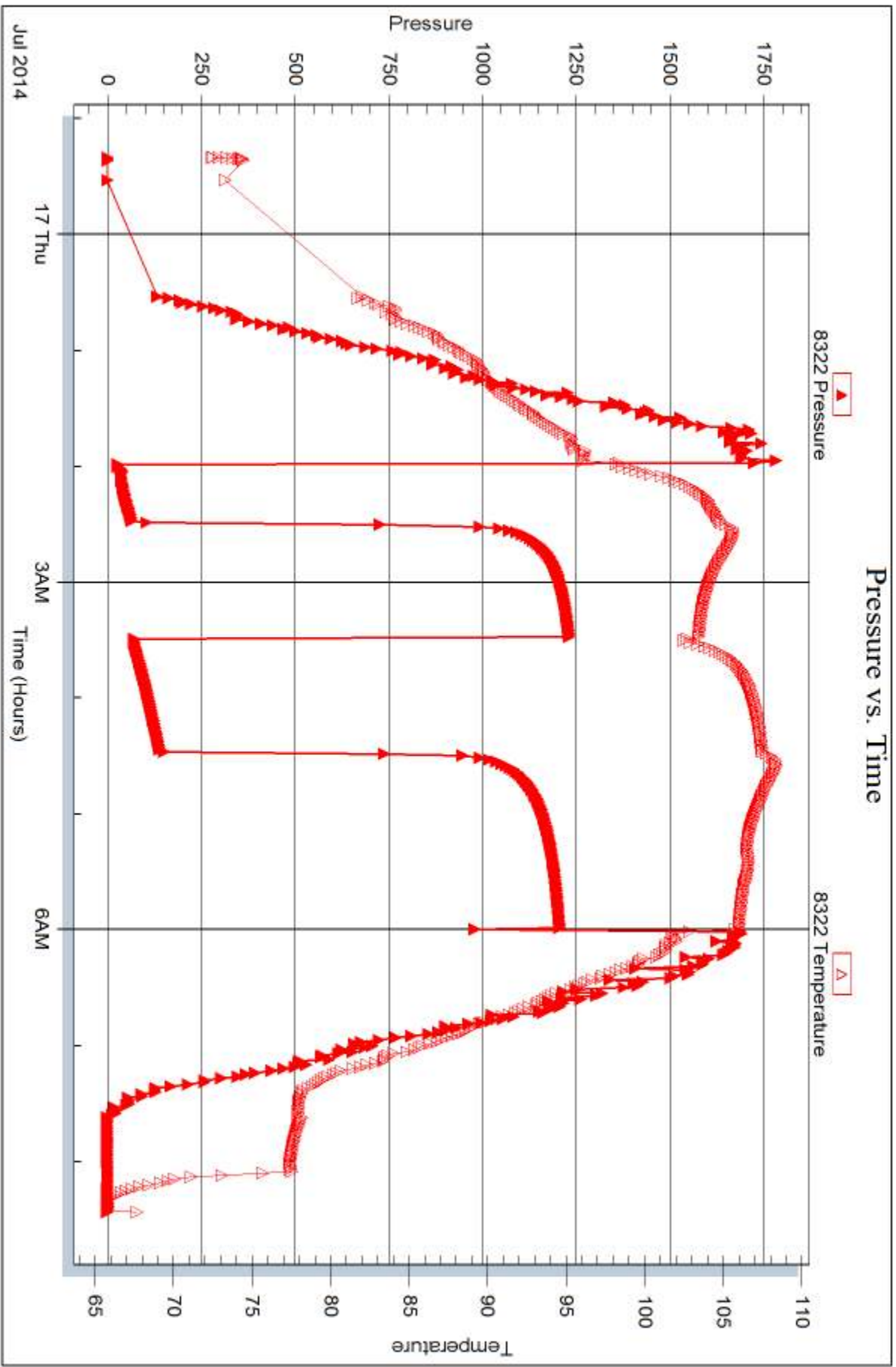
Total Length: 405.00 ft Total Volume: 5.134 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: OIL API = 34 @ 64 DEG F = 33.6 COR 60 DEG F







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #1-32

32-3s-26w Decatur KS

Start Date: 2014.07.17 @ 14:26:00

End Date: 2014.07.17 @ 22:18:00

Job Ticket #: 58275 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.21 @ 09:34:31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58275

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.07.17 @ 14:26:00

GENERAL INFORMATION:

Formation: **LKC " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:21:30

Time Test Ended: 22:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3540.00 ft (KB) To 3567.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3567.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 59.88 psig @ 3541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.17

End Date:

2014.07.17

Last Calib.:

2014.07.17

Start Time: 14:26:01

End Time:

22:18:00

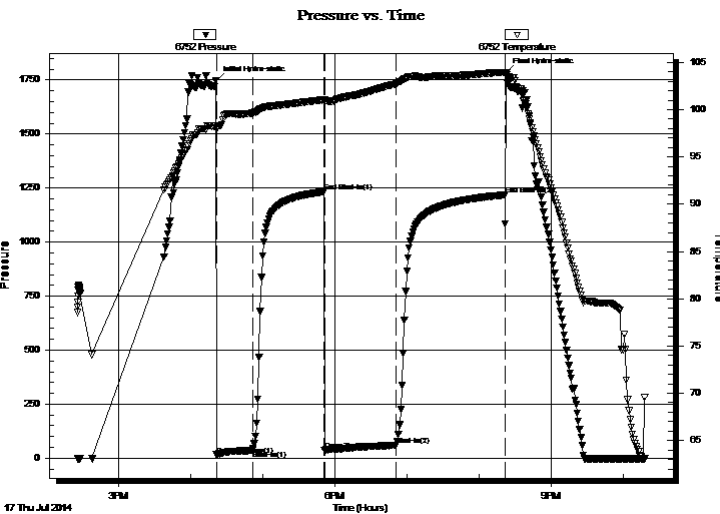
Time On Btm:

2014.07.17 @ 16:21:20

Time Off Btm:

2014.07.17 @ 20:23:00

TEST COMMENT: 30 IF - 1/4" blow built to 9 1/2"
60 ISI - Surface blow started @ 1 min
60 FF - Surface blow built to BoB @ 24 mins
90 FSI - Surface blow started @ 1 min died @ 67 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.59	98.25	Initial Hydro-static
1	15.57	97.92	Open To Flow (1)
31	36.24	99.64	Shut-In(1)
90	1232.72	101.05	End Shut-In(1)
91	38.38	100.99	Open To Flow (2)
150	59.88	102.73	Shut-In(2)
241	1218.27	103.94	End Shut-In(2)
242	1785.20	103.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM - 5%G - 20%o - 75%M	0.34
60.00	GO - 10%G - 90%o	0.84
0.00	315' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58275

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.07.17 @ 14:26:00

GENERAL INFORMATION:

Formation: **LKC " B "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:21:30
 Time Test Ended: 22:18:00

Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 78

Interval: 3540.00 ft (KB) To 3567.00 ft (KB) (TVD)
 Total Depth: 3567.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

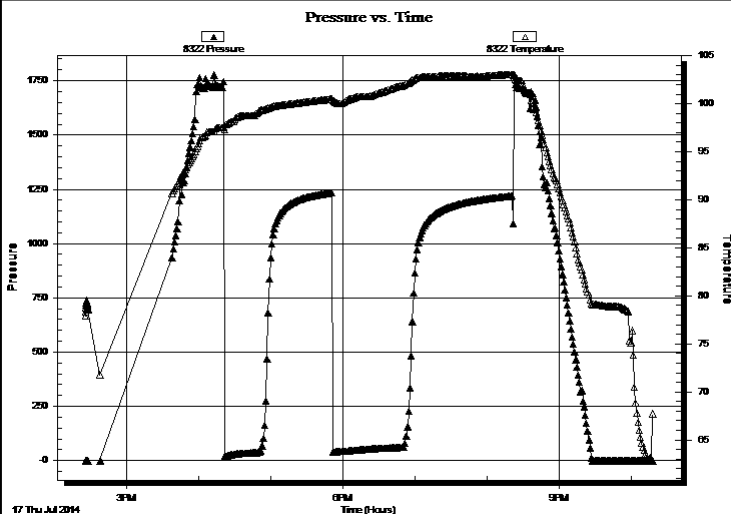
Reference Elevations: 2536.00 ft (KB)
 2531.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8322

Outside

Press@RunDepth: psig @ 3541.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.17 End Date: 2014.07.17 Last Calib.: 2014.07.17
 Start Time: 14:26:01 End Time: 22:18:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 IF - 1/4" blow built to 9 1/2"
 60 ISI - Surface blow started @ 1 min
 60 FF - Surface blow built to BoB @ 24 mins
 90 FSI - Surface blow started @ 1 min died @ 67 mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM - 5%G - 20%o - 75%M	0.34
60.00	GO - 10%G - 90%o	0.84
0.00	315' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58275

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.07.17 @ 14:26:00

Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 bbl	Tool Weight: 2500.00 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 49.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3540.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	54.00 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			3514.00	
Shut In Tool	5.00			3519.00	
Hydraulic tool	5.00			3524.00	
Jars	5.00			3529.00	
Safety Joint	2.00			3531.00	
Packer	5.00			3536.00	27.00 Bottom Of Top Packer
Packer	4.00			3540.00	
Stubb	1.00			3541.00	
Recorder	0.00	6752	Inside	3541.00	
Recorder	0.00	8322	Outside	3541.00	
Perforations	23.00			3564.00	
Bullnose	3.00			3567.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58275

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.07.17 @ 14:26:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 6.79 in³
Resistivity: ohm.m
Salinity: 1900.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 35 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	GOCM - 5%G - 20%o - 75%M	0.337
60.00	GO - 10%G - 90%o	0.842
0.00	315' GIP	0.000

Total Length: 123.00 ft Total Volume: 1.179 bbl

Num Fluid Samples: 0

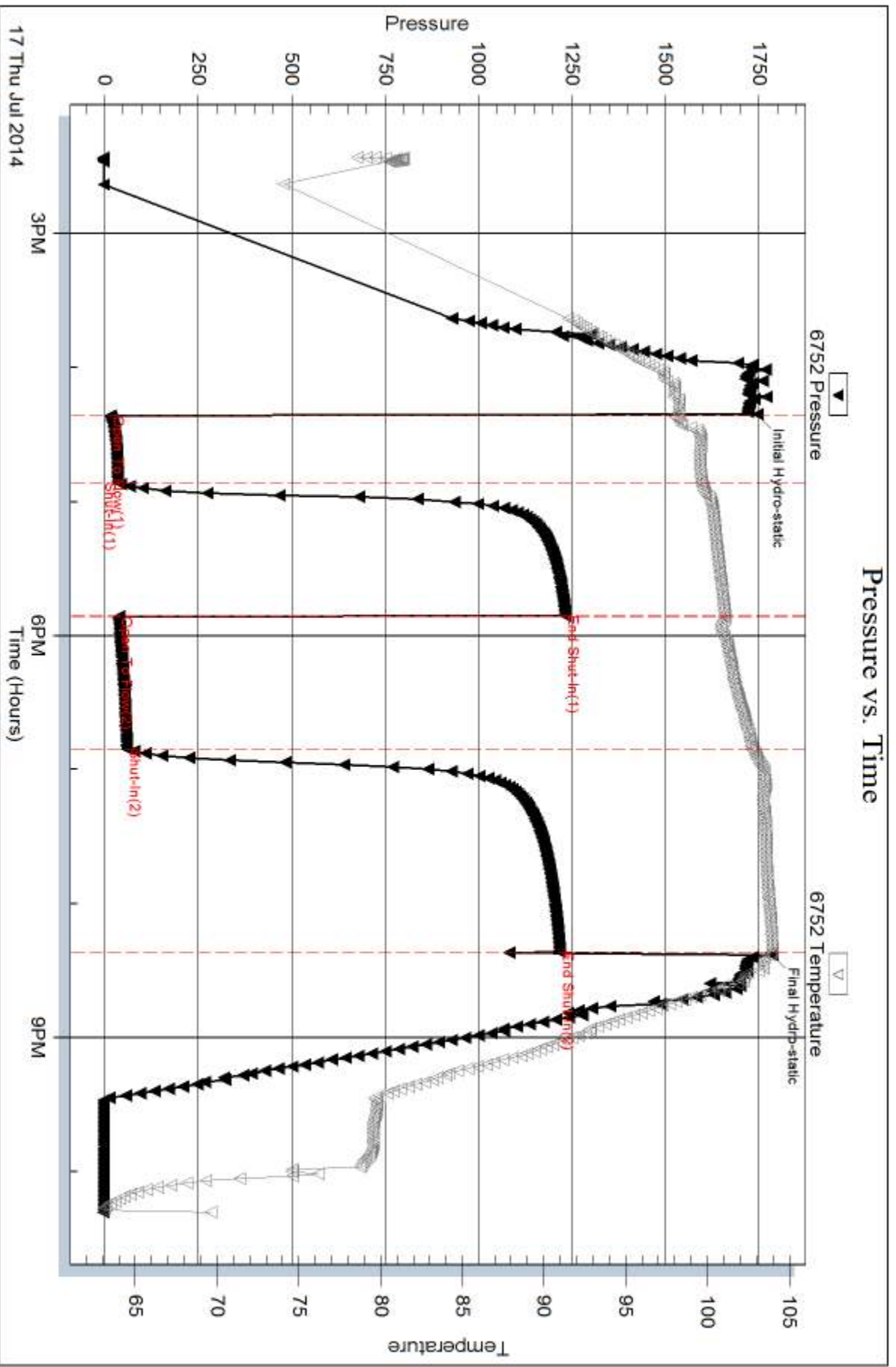
Num Gas Bombs: 0

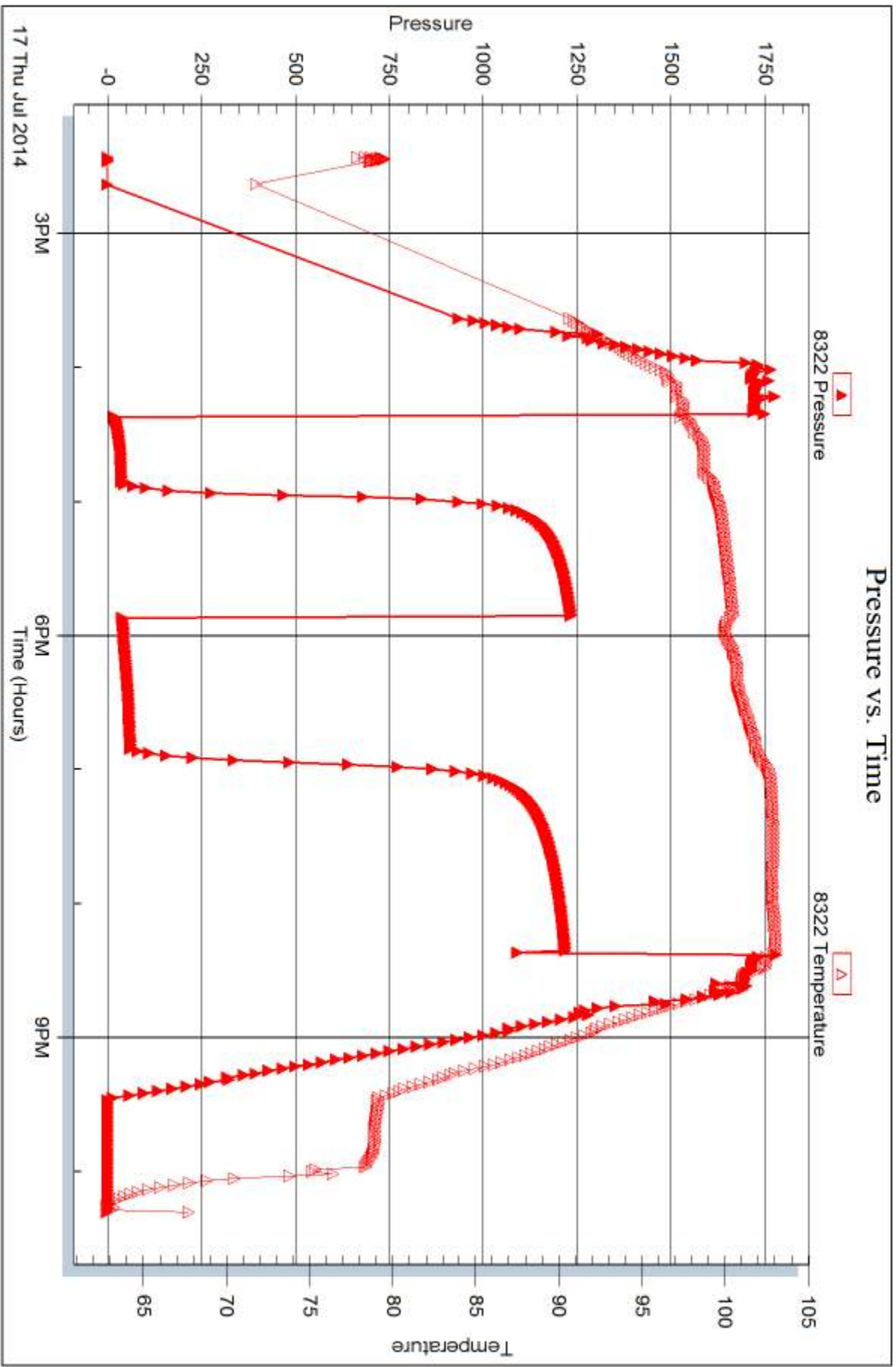
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 36 @ 70 DEG F = 35 COR 60 DEG F







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #1-32

32-3s-26w Decatur KS

Start Date: 2014.07.18 @ 11:39:00

End Date: 2014.07.18 @ 19:25:30

Job Ticket #: 28276 DST #: 5

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

Printed: 2014.07.21 @ 09:32:45



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 28276

DST#: 5

ATTN: Larry Nicholson

Test Start: 2014.07.18 @ 11:39:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:34:00

Time Test Ended: 19:25:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3627.00 ft (KB) To 3655.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3655.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 50.74 psig @ 3628.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.18

End Date:

2014.07.18

Last Calib.:

2014.07.18

Start Time: 11:39:01

End Time:

19:25:30

Time On Btm:

2014.07.18 @ 13:33:30

Time Off Btm:

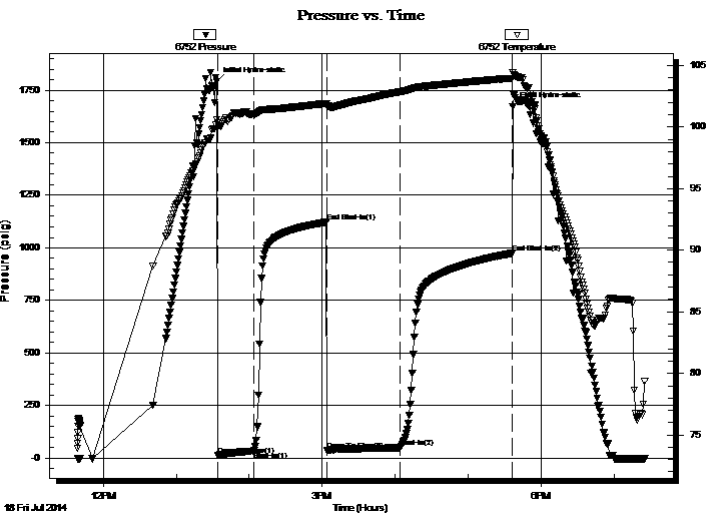
2014.07.18 @ 17:36:39

TEST COMMENT: 30 IF - Surface blow built to 2"

60 ISI - No return

60 FF - Surface blow built to 2 1/4"

90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.93	100.63	Initial Hydro-static
1	14.75	100.33	Open To Flow (1)
30	34.66	101.03	Shut-In(1)
91	1122.14	101.92	End Shut-In(1)
91	37.86	101.70	Open To Flow (2)
151	50.74	102.85	Shut-In(2)
243	974.67	103.96	End Shut-In(2)
244	1673.33	104.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OWCM - 10%o - 40%W - 50%M	0.30
15.00	OCM - 13%o - 87%M	0.21

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 28276

DST#: 5

ATTN: Larry Nicholson

Test Start: 2014.07.18 @ 11:39:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:34:00

Time Test Ended: 19:25:30

Interval: 3627.00 ft (KB) To 3655.00 ft (KB) (TVD)

Total Depth: 3655.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Reference Elevations: 2536.00 ft (KB)

2531.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322

Outside

Press@RunDepth: psig @ 3628.00 ft (KB)

Start Date: 2014.07.18

End Date:

2014.07.18

Start Time: 11:39:01

End Time:

19:25:30

Capacity: 8000.00 psig

Last Calib.:

2014.07.18

Time On Btm:

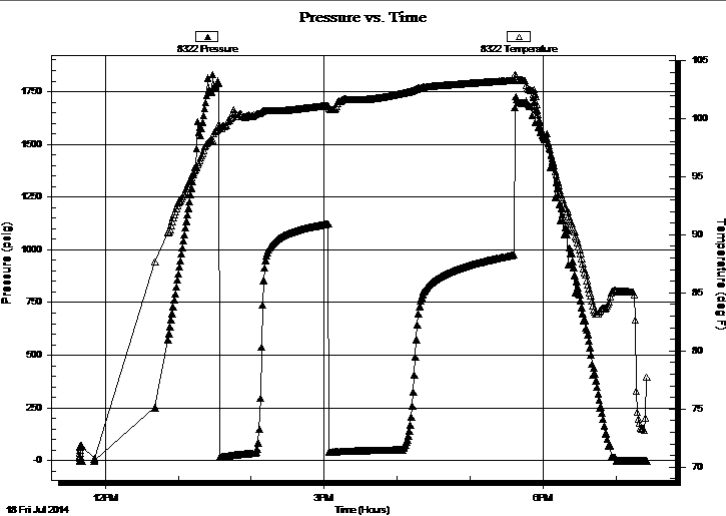
Time Off Btm:

TEST COMMENT: 30 IF - Surface blow built to 2"

60 ISI - No return

60 FF - Surface blow built to 2 1/4"

90 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OWCM - 10%O - 40%W - 50%M	0.30
15.00	OCM - 13%O - 87%M	0.21

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

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 28276

DST#: 5

ATTN: Larry Nicholson

Test Start: 2014.07.18 @ 11:39:00

Tool Information

Drill Pipe:	Length: 3551.00 ft	Diameter: 3.80 inches	Volume: 49.81 bbl	Tool Weight:	2500.00 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 50.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3627.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	55.00 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			3601.00	
Shut In Tool	5.00			3606.00	
Hydraulic tool	5.00			3611.00	
Jars	5.00			3616.00	
Safety Joint	2.00			3618.00	
Packer	5.00			3623.00	27.00 Bottom Of Top Packer
Packer	4.00			3627.00	
Stubb	1.00			3628.00	
Recorder	0.00	6752	Inside	3628.00	
Recorder	0.00	8322	Outside	3628.00	
Perforations	24.00			3652.00	
Bullnose	3.00			3655.00	28.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 28276

DST#: 5

ATTN: Larry Nicholson

Test Start: 2014.07.18 @ 11:39:00

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: 62.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OWCM - 10%o - 40%W - 50%M	0.295
15.00	OCM - 13%o - 87%M	0.210

Total Length: 75.00 ft Total Volume: 0.505 bbl

Num Fluid Samples: 0

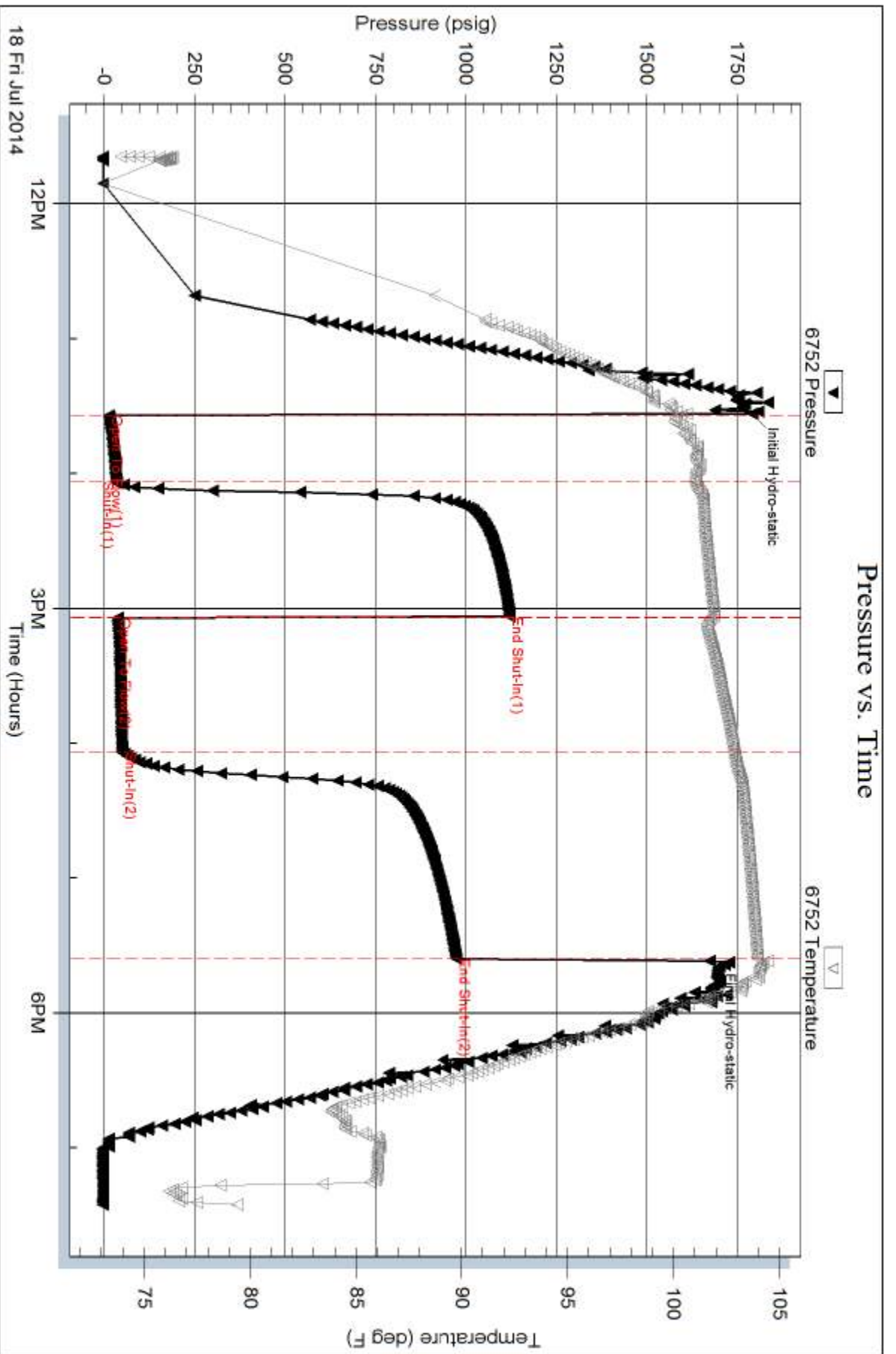
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

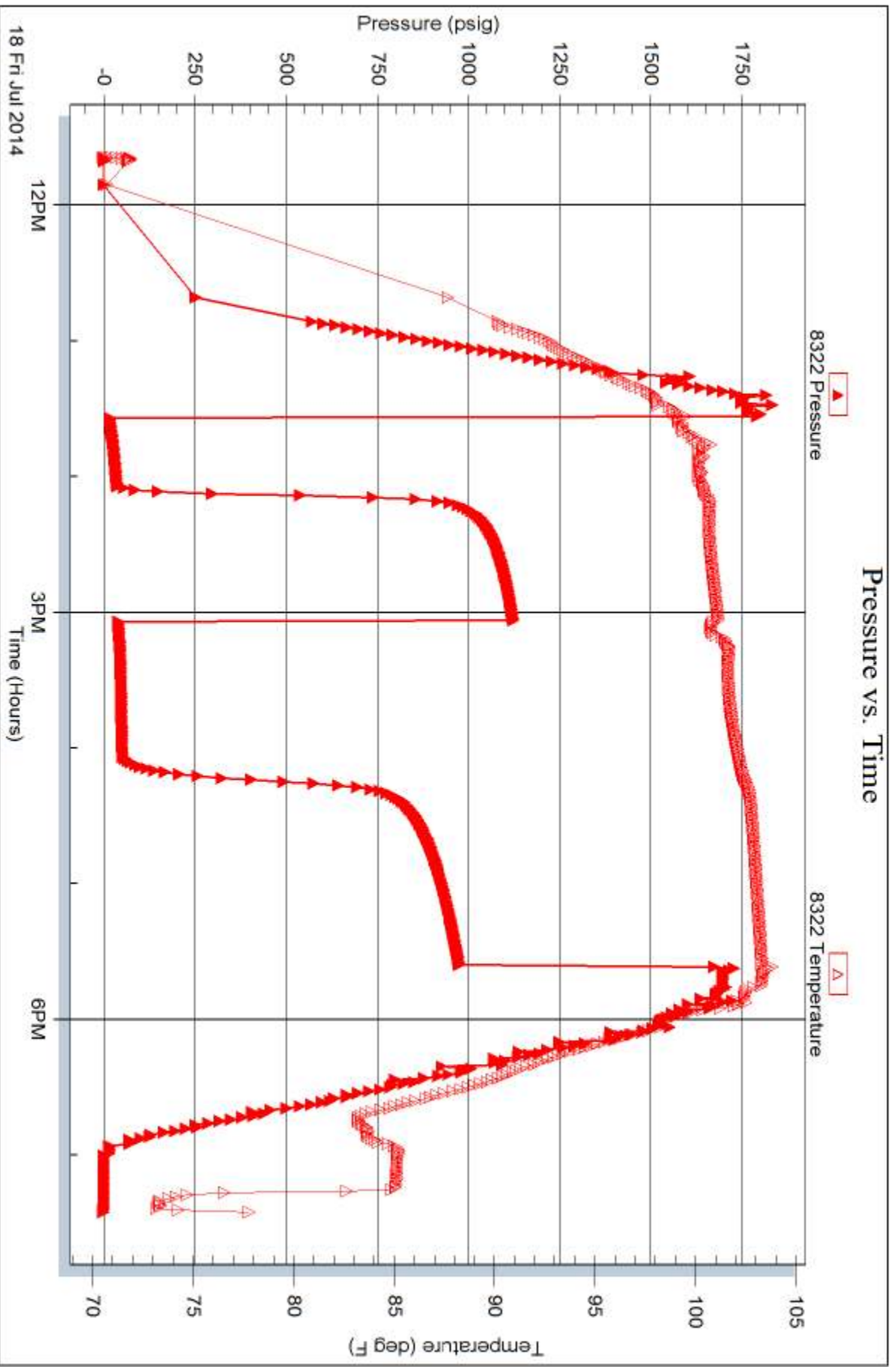


Serial #: 8322

Outside Cobalt Energy LLC

Ritter A #1-32

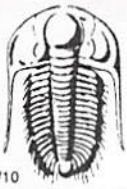
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 28276

Printed: 2014.07.21 @ 09:32:46



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58272

Well Name & No. Ritter A # 1-32 Test No. 1 Date 7/15/14
 Company Cobalt Energy Elevation 2536 KB 2531 GL
 Address 115 S. Bellmont #12 P.O. Box 9037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Martin # 7
 Location: Sec. 32 Twp. 35 Rge. 26W Co. Decatur State KS

Interval Tested 3376 - 3406 Zone Tested Topeka
 Anchor Length 30' Drill Pipe Run 3299' Mud Wt. 9.0
 Top Packer Depth 3371 Drill Collars Run 60' Vis 52
 Bottom Packer Depth 3376 Wt. Pipe Run 0' WL 6.8
 Total Depth 3406 Chlorides 1800 ppm System LCM 2
 Blow Description IF - 1/2" blow built to BoB @ 7 mins
ISI - No return
FF - Surface blow built to BoB @ 8 mins
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>441</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
<u>60</u>	<u>MCW</u>		<u>65</u>	<u>35</u>	

Rec Total 531 BHT 105° Gravity — API RW .115 @ 91.6 °F Chlorides 48000 ppm
 (A) Initial Hydrostatic 1664 Test 1150 T-On Location 09:45
 (B) First Initial Flow 27 Jars 250 T-Started 10:09
 (C) First Final Flow 164 Safety Joint 75 T-Open 11:58
 (D) Initial Shut-In 1153 Circ Sub NC T-Pulled 14:28
 (E) Second Initial Flow 170 Hourly Standby _____ T-Out 16:27
 (F) Second Final Flow 277 Mileage 40 RT 62 Comments _____
 (G) Final Shut-In 1098 Sampler _____
 (H) Final Hydrostatic 1639 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1787.00
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1787

Approved By _____ Our Representative [Signature]

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. **58273**

4/10

Well Name & No. Ritter A # 1-32 Test No. 2 Date 7/16/14
 Company Cobalt Energy LLC Elevation 2536 KB 2531 GL
 Address 115 S. Belmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Martin # 7
 Location: Sec. 32 Twp. 35 Rge. 26W Co. Decatur State KS

Interval Tested 3488 - 3524 Zone Tested Toronto
 Anchor Length 36' Drill Pipe Run 3424' Mud Wt. 9.2
 Top Packer Depth 3483 Drill Collars Run 60' Vis 49
 Bottom Packer Depth 3488 Wt. Pipe Run 0' WL 6.4
 Total Depth 3524 Chlorides 2200 ppm System LCM 2

Blow Description IF - 1/4" blow built to 6 1/2"
ISI - No return
FF - Surface blow ^{swirl} built to 9 1/2"
FSL - No return

Rec	Feet of	%gas	%oil	%water	%muc
<u>4</u>	<u>MCW</u>			<u>50%</u>	<u>50%</u>
<u>63'</u>	<u>MCW</u>			<u>80%</u>	<u>20%</u>
<u>63'</u>	<u>MCW</u>			<u>90%</u>	<u>10%</u>
<u>60'</u>	<u>WCM</u>			<u>45%</u>	<u>55%</u>
Rec	Feet of	%gas	%oil	%water	%muc

Rec Total 190' BHT 104° Gravity — API RW .138 @ 61° F Chlorides 78,000 ppm

(A) Initial Hydrostatic 1745 Test 1150 T-On Location 09:30
 (B) First Initial Flow 17 Jars 250 T-Started 09:15
 (C) First Final Flow 59 Safety Joint 75 T-Open 10:56
 (D) Initial Shut-In 1220 Circ Sub NC T-Pulled 14:56
 (E) Second Initial Flow 63 Hourly Standby _____ T-Out 16:48
 (F) Second Final Flow 108 Mileage 40 RT ⁶² Comments _____
 (G) Final Shut-In 1204 Sampler _____
 (H) Final Hydrostatic 1616 Straddle _____

Initial Open 30 Shale Packer 250 Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder _____ Extra Copies _____
 Final Shut-In 90 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1787.00
 Sub Total 1787 MP/DST Disc't _____

Approved By _____ Our Representative Larry Nicholson

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. 58274

Well Name & No. Ritter A #1-32 Test No. 3 Date 7/16/14
 Company Cobalt Energy LLC Elevation 2536 KB 2531 GL
 Address 115 S. Bellmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Martin #7
 Location: Sec. 32 Twp. 35 Rge. 26W Co. Decatur State K5

Interval Tested 3522 - 3539 Zone Tested Lansing A
 Anchor Length 17' Drill Pipe Run 3456' Mud Wt. 9.2
 Top Packer Depth 3517 Drill Collars Run 20' Vis 48
 Bottom Packer Depth 3522 Wt. Pipe Run 0' WL 6.4
 Total Depth 3539 Chlorides 2200 ppm System LCM 2

Blow Description IF - 1/2" blow built to BoB @ 6 mins
ISI - Surface blow built to 6 1/2"
FF - Surface blow built to BoB @ 8 mins
FSL - Surface blow built to BoB @ 33 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>60</u>	<u>5</u>	<u>95</u>		
<u>126'</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>189'</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>60'</u>	<u>60CM</u>	<u>20</u>	<u>25</u>		<u>55</u>

Rec Total 405' BHT 107° Gravity 33.6 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1728</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>22:45</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:20</u>
(C) First Final Flow <u>63</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>01:58</u>
(D) Initial Shut-In <u>1230</u>	<input checked="" type="checkbox"/> Circ Sub <u>NL</u>	T-Pulled <u>05:58</u>
(E) Second Initial Flow <u>71</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>08:26</u>
(F) Second Final Flow <u>138</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> 62	Comments <u>850' GIP</u>
(G) Final Shut-In <u>1206</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1660</u>	<input type="checkbox"/> Straddle	

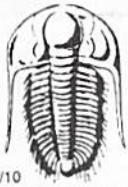
Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 96

Shale Packer 250
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1787

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1787.00
 MP/DST Disc't

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58275**

4/10

Well Name & No. Ritter A #1-32 Test No. 4 Date 7/17/14
 Company Colbalt Energy LLC Elevation 2536 KB 2531 GL
 Address 115 S. Bellmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #7
 Location: Sec. 32 Twp. 35 Rge. 26 W Co. Decatur State KS

Interval Tested 3540 - 3567 Zone Tested Lansing "B"
 Anchor Length 27' Drill Pipe Run 3487' Mud Wt. 9.1
 Top Packer Depth 3535 Drill Collars Run 60' Vis 48
 Bottom Packer Depth 3540 Wt. Pipe Run 0' WL 6.8
 Total Depth 3567 Chlorides 1900 ppm System LCM 2

Blow Description IF - 1/4" blow built to 9 1/2"
ISI - Surface blow started @ 1 min
FF - Surface blow built to BoB @ 24 mins
FSI - Surface blow started @ 1 min died @ 67 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>63'</u>	<u>60CM</u>	<u>5</u>	<u>20</u>		<u>75</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 123' BHT 104° Gravity 35COR 60° API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1746</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>14:00</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:26</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:21</u>
(D) Initial Shut-In <u>1233</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>20:21</u>
(E) Second Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>22:18</u>
(F) Second Final Flow <u>60</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> 62	Comments <u>—</u>
(G) Final Shut-In <u>1218</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1785</u>	<input type="checkbox"/> Straddle <u>—</u>	

Initial Open 30
 Initial Shut-In 60
 Final Flow 80
 Final Shut-In 90

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1787.00
 MP/DST Disc't —

Sub Total 1787.00

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58276**

4/10

Well Name & No. Kitter A #1-32 Test No. 5 Date 7/18/14
 Company Colbatt Energy LLC Elevation 2536 KB 2531 GL
 Address 115 S. Bellmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin # 7
 Location: Sec. 32 Twp. 35 Rge. 26W Co. Decatur State KS

Interval Tested 3627-3655 Zone Tested Lansing "H"
 Anchor Length 28' Drill Pipe Run 3551 Mud Wt. 9.1
 Top Packer Depth 3622 Drill Collars Run 60' Vis 62
 Bottom Packer Depth 3627 Wt. Pipe Run 0' WL 6.4
 Total Depth 3655 Chlorides 1700 ppm System LCM 1
 Blow Description IF - Surface blow built to 2"
ISI - No return
HF - Surface blow built to 2 1/4"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>OCM</u>	<u>13</u>		<u>87</u>	
<u>60'</u>	<u>OWCM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75' BHT 104° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1792</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>11:00</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:39</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:34</u>
(D) Initial Shut-In <u>1122</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>17:34</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>19:25</u>
(F) Second Final Flow <u>51</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> 124	Comments <u>Dirty water</u>
(G) Final Shut-In <u>975</u>	<input type="checkbox"/> Sampler	<u>loaded tools @</u>
(H) Final Hydrostatic <u>1673</u>	<input type="checkbox"/> Straddle	<u>03:00 on 7/20/14</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 7.5h</u>	Total <u>2649.00</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1849.00</u>	

Approved By _____ Our Representative [Signature]

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