



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Nicholas D Hess

**Lee A #1-12**

**12-6s-21w Graham,KS**

Start Date: 2012.07.23 @ 10:53:47

End Date: 2012.07.23 @ 19:20:17

Job Ticket #: 49331                      DST #: 1

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

Printed: 2012.07.31 @ 13:56:25



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49331

**DST#: 1**

ATTN: Nicholas D Hess

Test Start: 2012.07.23 @ 10:53:47

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:36:47

Time Test Ended: 19:20:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

**Interval: 3247.00 ft (KB) To 3275.00 ft (KB) (TVD)**

Reference Elevations: 2136.00 ft (KB)

Total Depth: 3275.00 ft (KB) (TVD)

2124.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8321 Inside**

Press @ Run Depth: 67.84 psig @ 3248.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.23

End Date:

2012.07.23

Last Calib.:

2012.07.23

Start Time: 10:53:48

End Time:

19:20:17

Time On Btm:

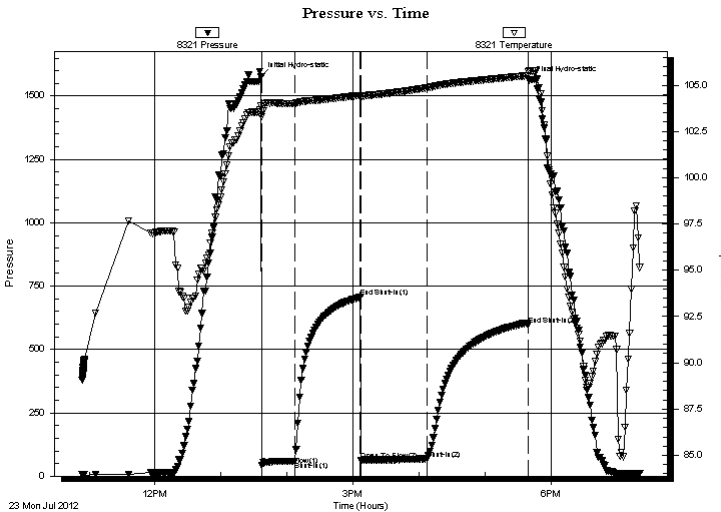
2012.07.23 @ 13:36:17

Time Off Btm:

2012.07.23 @ 17:39:17

**TEST COMMENT:** IFP=Weak blow built to 3" died back to 2 1/4"  
ISI=Dead no blow back  
FFP=Weak blow built to 1/2"  
FSI=Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1576.60	103.87	Initial Hydro-static
1	43.34	103.31	Open To Flow (1)
31	59.48	104.01	Shut-In(1)
90	706.48	104.45	End Shut-In(1)
91	63.36	104.29	Open To Flow (2)
151	67.84	104.85	Shut-In(2)
243	595.94	105.51	End Shut-In(2)
243	1563.07	105.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
72.00	SOCM 5%O 95%M	0.35

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC  
 PO Box 8037  
 Wichita KS 67208  
 ATTN: Nicholas D Hess

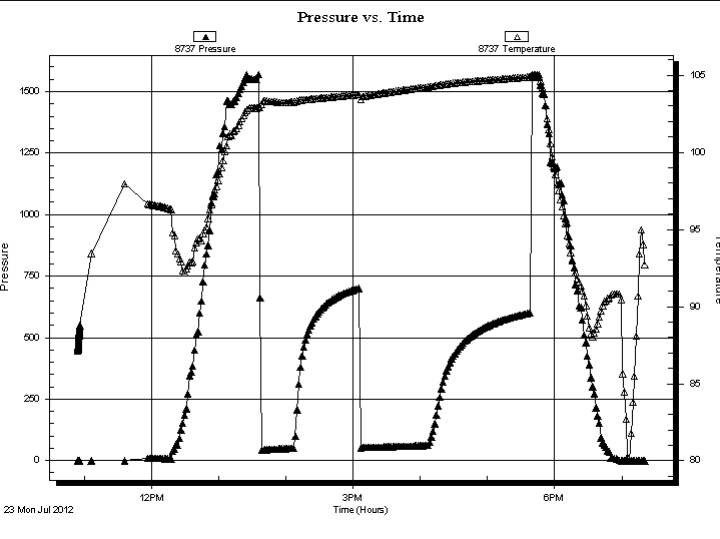
**12-6s-21w Graham,KS**  
**Lee A #1-12**  
 Job Ticket: 49331 **DST#: 1**  
 Test Start: 2012.07.23 @ 10:53:47

## GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:36:47  
 Time Test Ended: 19:20:17  
 Interval: **3247.00 ft (KB) To 3275.00 ft (KB) (TVD)**  
 Total Depth: 3275.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jeff Brown  
 Unit No: 44  
 Reference Elevations: 2136.00 ft (KB)  
 2124.00 ft (CF)  
 KB to GR/CF: 12.00 ft

**Serial #: 8737 Outside**  
 Press @ Run Depth: psig @ 3248.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.07.23 End Date: 2012.07.23 Last Calib.: 2012.07.23  
 Start Time: 10:53:53 End Time: 19:20:22 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IFP=Weak blow built to 3" died back to 2 1/4"  
 ISI=Dead no blow back  
 FFP=Weak blow built to 1/2"  
 FSI=Dead no blow back



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

Length (ft)	Description	Volume (bbl)
72.00	SOCM 5%O 95%M	0.35

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49331

**DST#: 1**

ATTN: Nicholas D Hess

Test Start: 2012.07.23 @ 10:53:47

## Tool Information

Drill Pipe:	Length: 3080.00 ft	Diameter: 3.80 inches	Volume: 43.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 44.05 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3247.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	51.00 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			3225.00	
Shut In Tool	5.00			3230.00	
Hydraulic tool	5.00			3235.00	
Safety Joint	3.00			3238.00	
Packer	4.00			3242.00	23.00 Bottom Of Top Packer
Packer	5.00			3247.00	
Stubb	1.00			3248.00	
Recorder	0.00	8321	Inside	3248.00	
Recorder	0.00	8737	Outside	3248.00	
Perforations	24.00			3272.00	
Bullnose	3.00			3275.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49331

**DST#: 1**

ATTN: Nicholas D Hess

Test Start: 2012.07.23 @ 10:53:47

## 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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 800.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
72.00	SOCM 5%O 95%M	0.354

Total Length: 72.00 ft      Total Volume: 0.354 bbl

Num Fluid Samples: 0

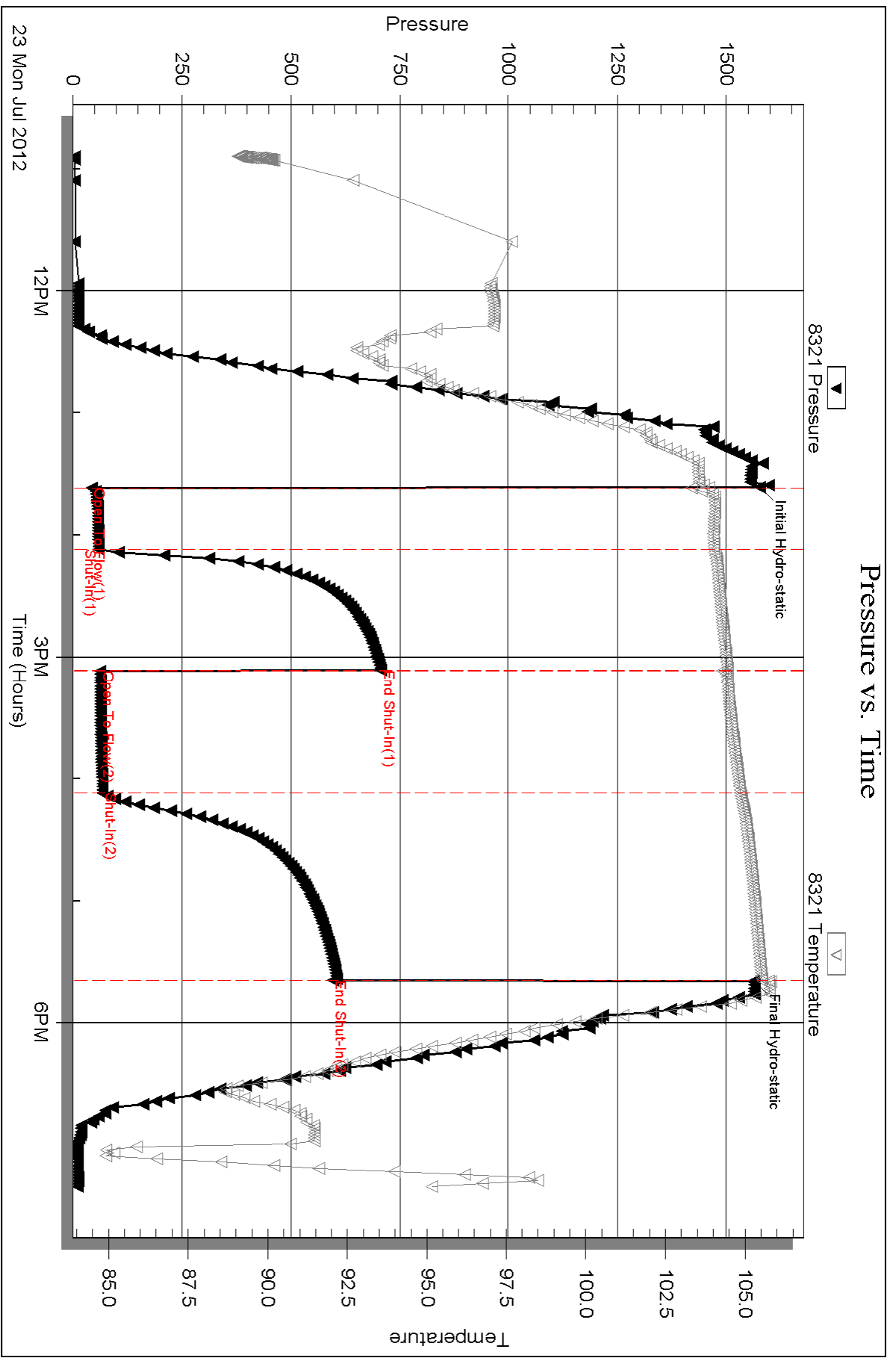
Num Gas Bombs: 0

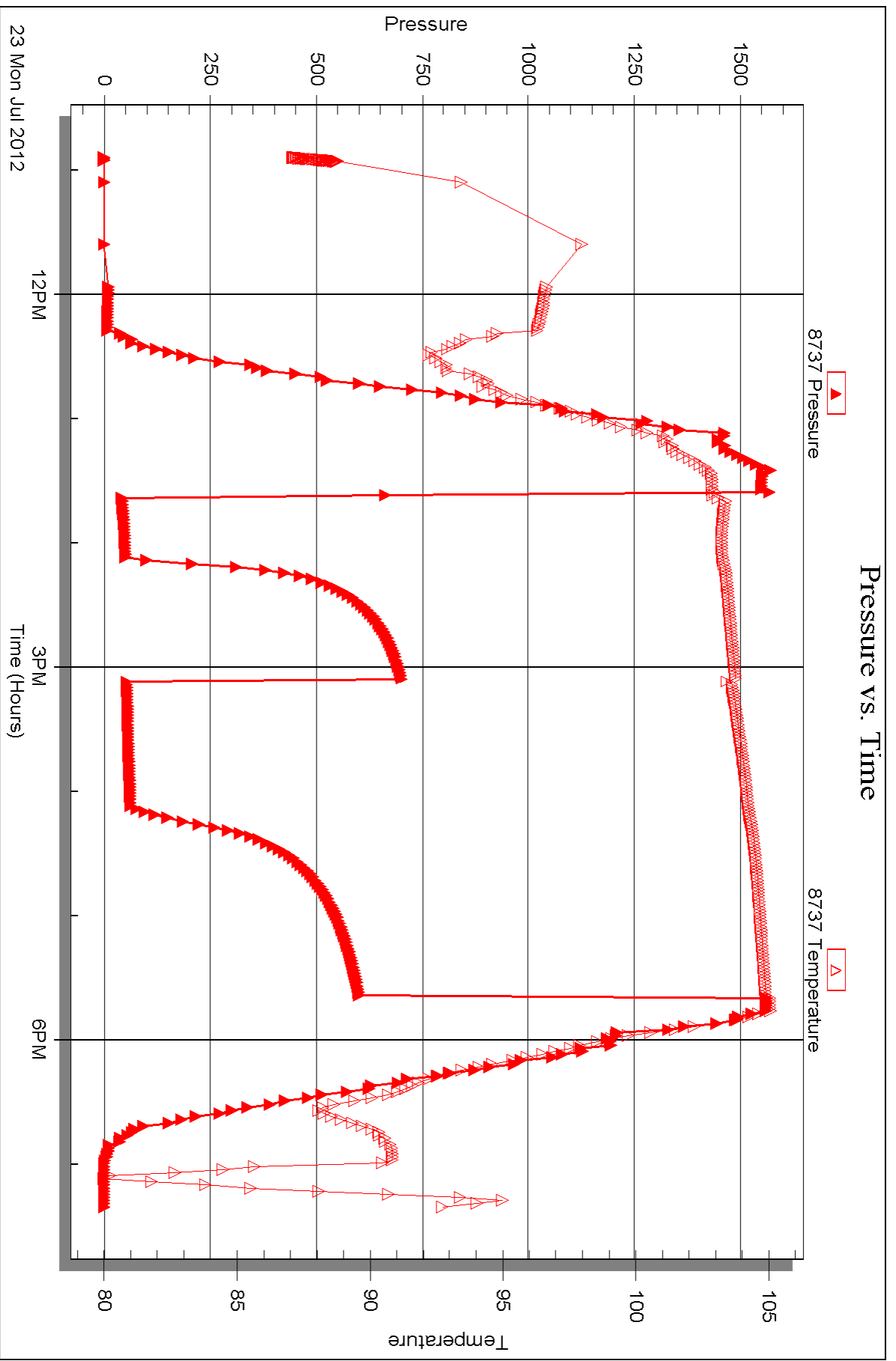
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Nicholas D Hess

**Lee A #1-12**

**12-6s-21w Graham,KS**

Start Date: 2012.07.23 @ 22:16:45

End Date: 2012.07.24 @ 04:47:45

Job Ticket #: 49332                      DST #: 2

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

Printed: 2012.07.31 @ 13:55:36





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49332

**DST#: 2**

ATTN: Nicholas D Hess

Test Start: 2012.07.23 @ 22:16:45

## GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:41:15

Time Test Ended: 04:47:45

Test Type: Conventional Straddle (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3187.00 ft (KB) To 3230.00 ft (KB) (TVD)**

Reference Elevations: 2136.00 ft (KB)

Total Depth: 3275.00 ft (KB) (TVD)

2124.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8321 Inside**

Press @ Run Depth: 73.83 psig @ 3192.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.23

End Date:

2012.07.24

Last Calib.:

2012.07.24

Start Time:

22:16:46

End Time:

07:12:45

Time On Btm:

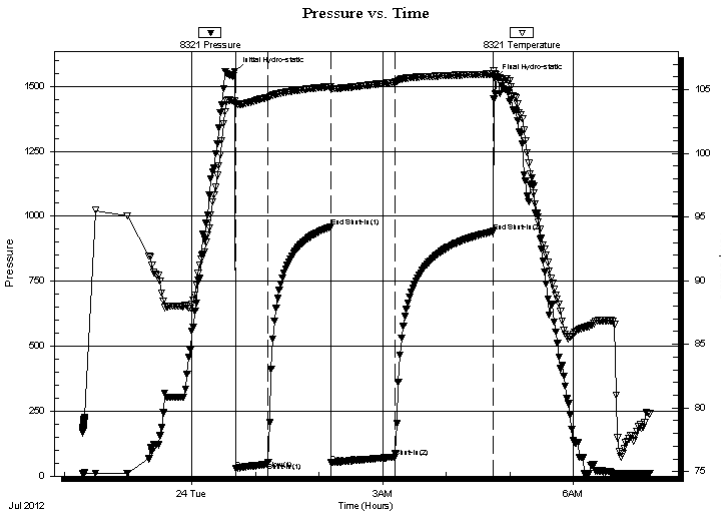
2012.07.24 @ 00:40:45

Time Off Btm:

2012.07.24 @ 04:45:45

TEST COMMENT: IFP=Weak blow built to 2 1/4"  
ISI=Dead no blow back  
FFP=Weak blow built to 3"  
FSI=Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1558.26	104.11	Initial Hydro-static
1	28.23	103.84	Open To Flow (1)
31	52.77	104.38	Shut-In(1)
90	959.53	105.25	End Shut-In(1)
91	51.01	105.06	Open To Flow (2)
151	73.83	105.59	Shut-In(2)
244	941.36	106.23	End Shut-In(2)
245	1530.27	106.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
77.00	V SOCM 2%O 98%M	0.38

## 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

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49332

**DST#: 2**

ATTN: Nicholas D Hess

Test Start: 2012.07.23 @ 22:16:45

## Tool Information

Drill Pipe:	Length: 3017.00 ft	Diameter: 3.80 inches	Volume: 42.32 bbl	Tool Weight: 2400.00 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: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 43.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3187.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	3230.00 ft			
Interval between Packers:	43.00 ft			
Tool Length:	111.00 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			3165.00	
Shut In Tool	5.00			3170.00	
Hydraulic tool	5.00			3175.00	
Safety Joint	3.00			3178.00	
Packer	4.00			3182.00	23.00 Bottom Of Top Packer
Packer	5.00			3187.00	
Stubb	1.00			3188.00	
Perforations	3.00			3191.00	
Change Over Sub	1.00			3192.00	
Recorder	0.00	8321	Inside	3192.00	
Recorder	0.00	8737	Outside	3192.00	
Drill Pipe	31.00			3223.00	
Change Over Sub	1.00			3224.00	
Perforations	2.00			3226.00	
Blank Off Sub	1.00			3227.00	
Stubb	3.00			3230.00	43.00 Tool Interval
Packer	1.00			3231.00	
Stubb	1.00			3232.00	
Recorder	0.00	8679	Below	3232.00	
Change Over Sub	1.00			3233.00	
Drill Pipe	31.00			3264.00	
Change Over Sub	1.00			3265.00	
Perforations	7.00			3272.00	
Bullnose	3.00			3275.00	45.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>111.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49332

**DST#: 2**

ATTN: Nicholas D Hess

Test Start: 2012.07.23 @ 22:16:45

## 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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 800.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
77.00	VSOCM 2%O 98%M	0.379

Total Length: 77.00 ft      Total Volume: 0.379 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

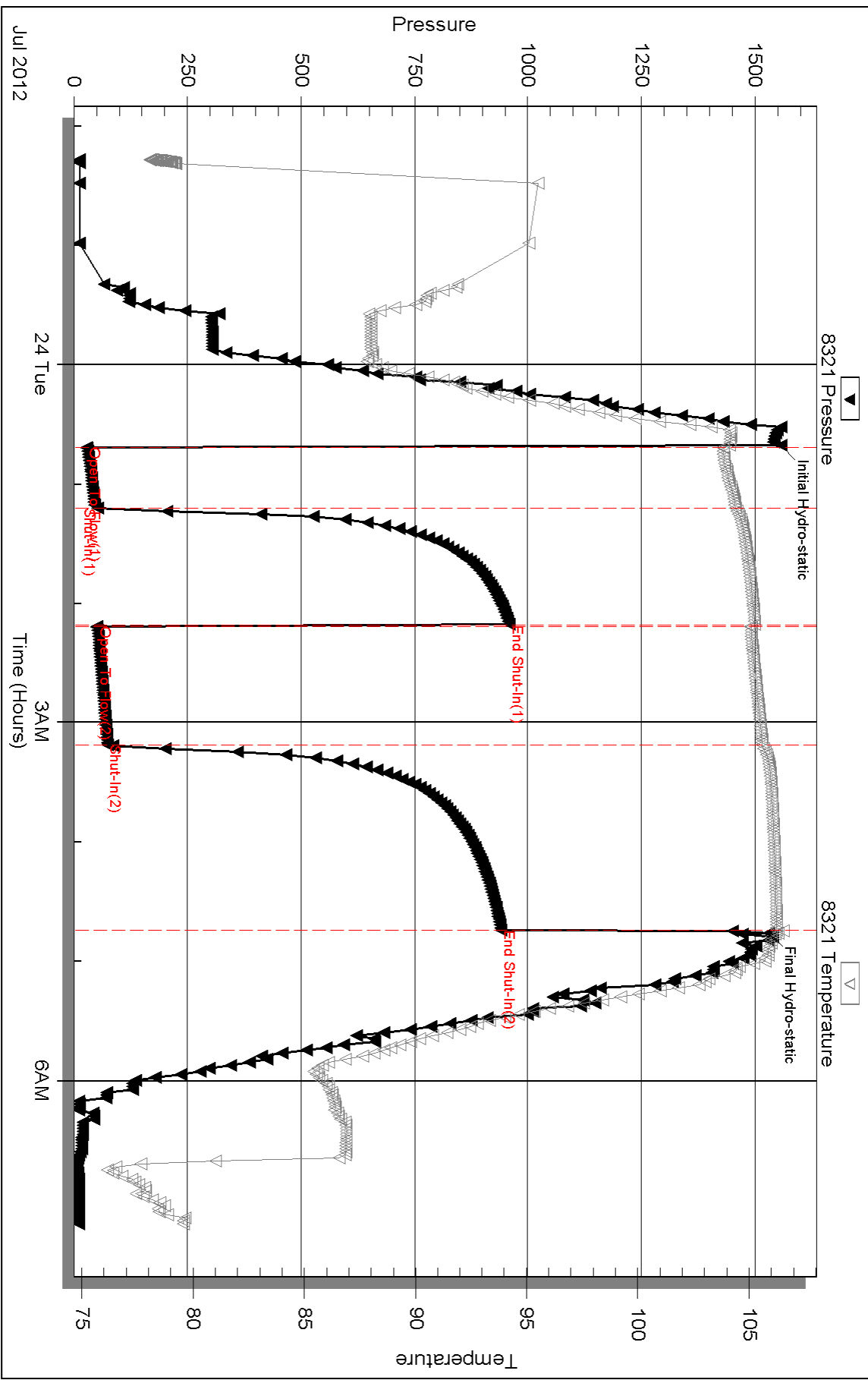
Serial #:

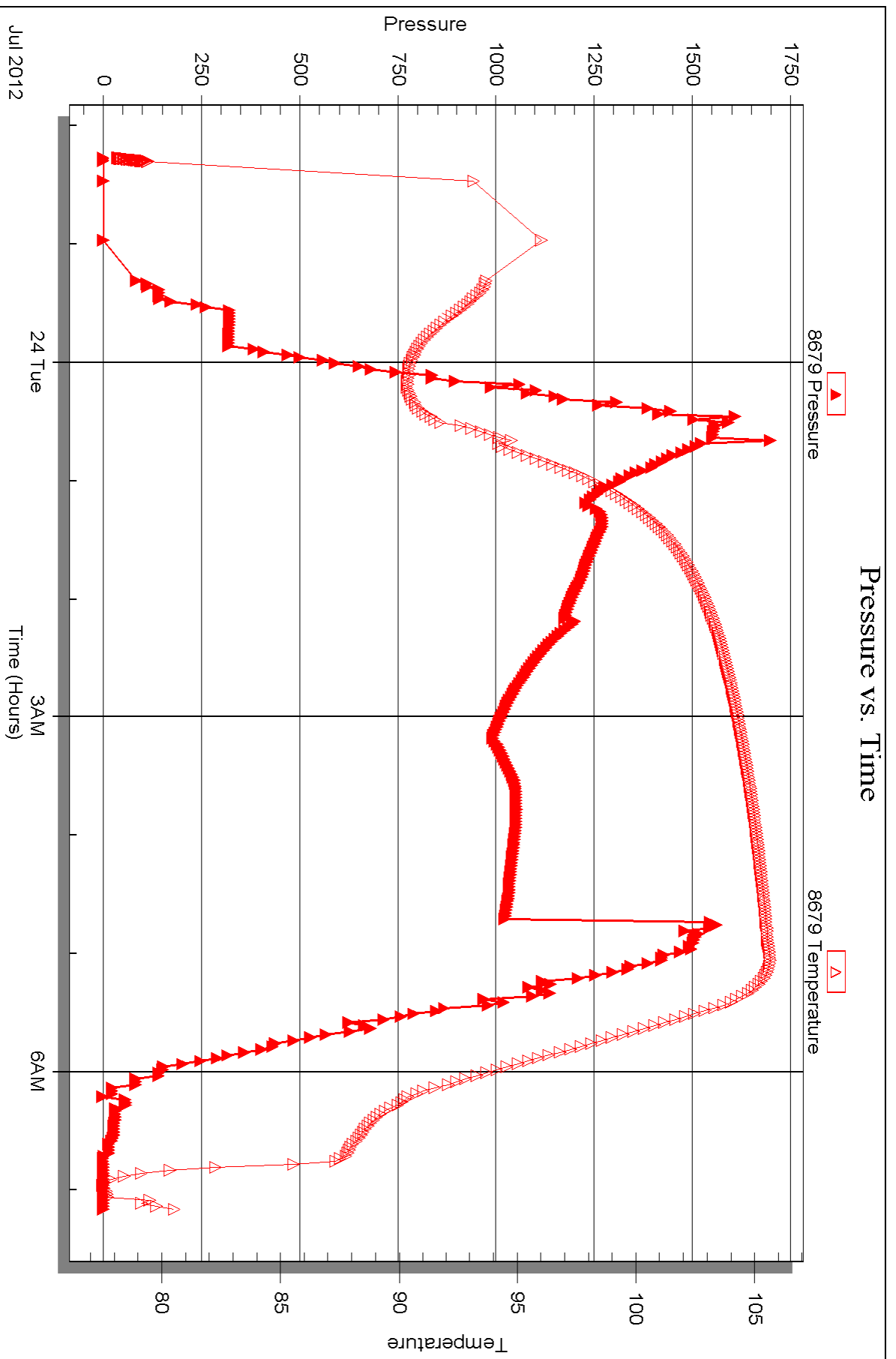
Laboratory Name:

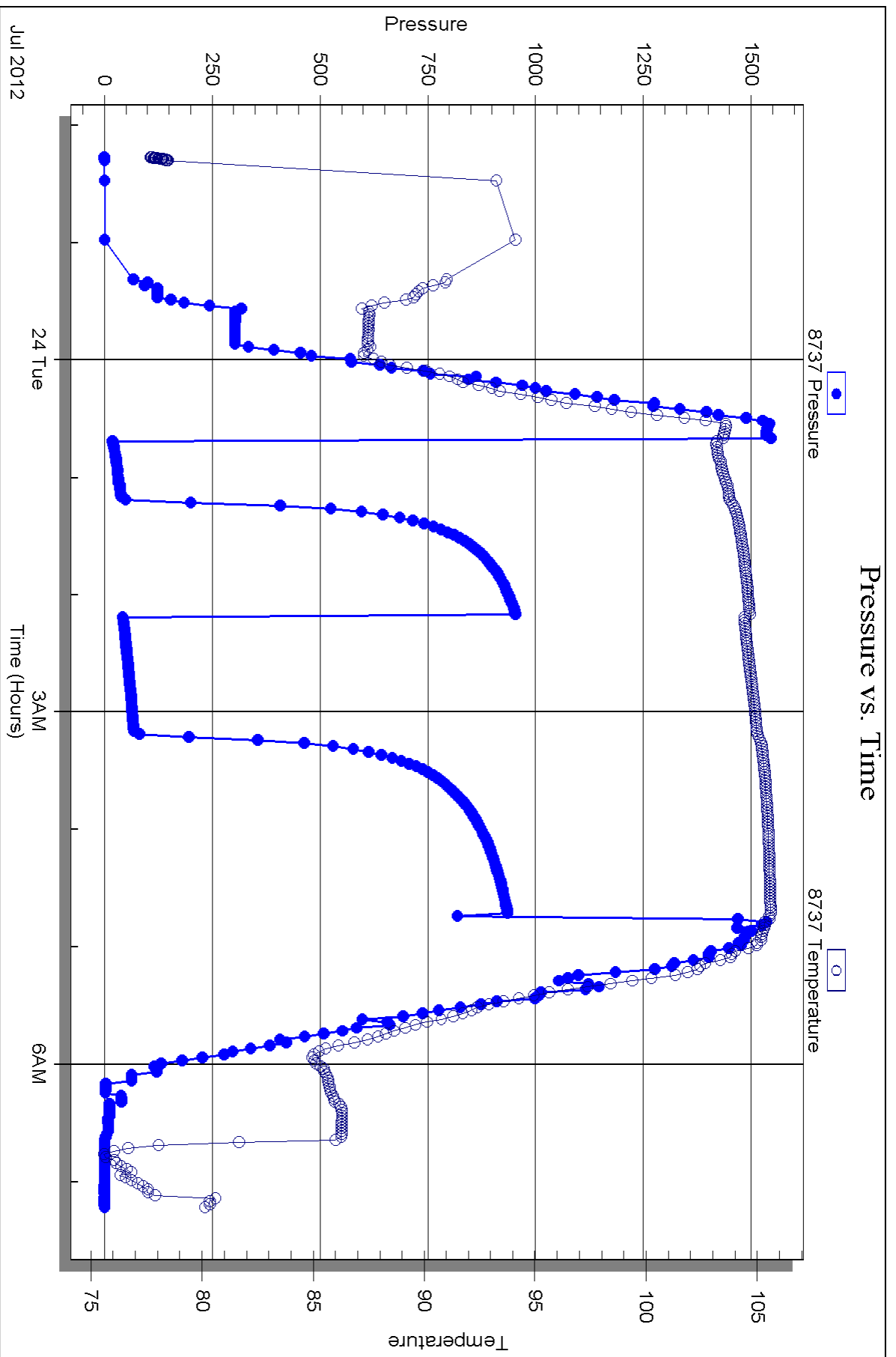
Laboratory Location:

Recovery Comments:

# Pressure vs. Time











## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Nicholas D Hess

### **Lee A #1-12**

#### **12-6s-21w Graham,KS**

Start Date: 2012.07.24 @ 11:43:00

End Date: 2012.07.24 @ 17:42:30

Job Ticket #: 49333                      DST #: 3

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

Printed: 2012.07.31 @ 13:54:56



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49333

**DST#: 3**

ATTN: Nicholas D Hess

Test Start: 2012.07.24 @ 11:43:00

## GENERAL INFORMATION:

Formation: **Lansing-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:26:30

Time Test Ended: 17:42:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3271.00 ft (KB) To 3305.00 ft (KB) (TVD)**

Reference Elevations: 2136.00 ft (KB)

Total Depth: 3305.00 ft (KB) (TVD)

2124.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8321**

**Inside**

Press @ Run Depth: 32.79 psig @ 3274.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.24

End Date:

2012.07.24

Last Calib.:

2012.07.24

Start Time: 11:43:01

End Time:

17:41:30

Time On Btm:

2012.07.24 @ 13:26:00

Time Off Btm:

2012.07.24 @ 16:01:00

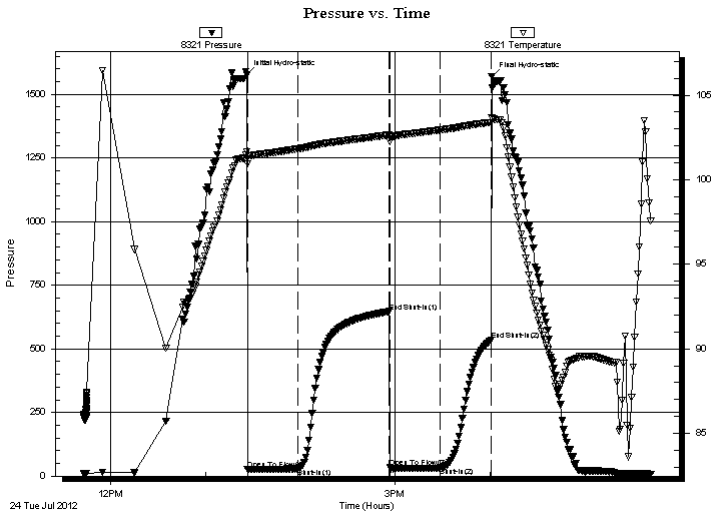
TEST COMMENT: IFP=Weak blow built to 1/2"

ISI=Dead no blow back

FFP=Dead no blow

FSI=Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1575.88	101.66	Initial Hydro-static
1	25.59	100.95	Open To Flow (1)
33	30.28	101.83	Shut-In(1)
90	646.21	102.65	End Shut-In(1)
91	34.10	102.28	Open To Flow (2)
123	32.79	102.94	Shut-In(2)
155	534.53	103.39	End Shut-In(2)
155	1569.60	103.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud w with a scum of oil	0.03

## 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

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49333

**DST#: 3**

ATTN: Nicholas D Hess

Test Start: 2012.07.24 @ 11:43:00

## Tool Information

Drill Pipe:	Length: 3080.00 ft	Diameter: 3.80 inches	Volume: 43.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 44.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3271.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 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			3249.00	
Shut In Tool	5.00			3254.00	
Hydraulic tool	5.00			3259.00	
Safety Joint	3.00			3262.00	
Packer	4.00			3266.00	23.00 Bottom Of Top Packer
Packer	5.00			3271.00	
Stubb	1.00			3272.00	
Perforations	2.00			3274.00	
Recorder	0.00	8321	Inside	3274.00	
Recorder	0.00	8737	Outside	3274.00	
Perforations	28.00			3302.00	
Bullnose	3.00			3305.00	34.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49333

**DST#: 3**

ATTN: Nicholas D Hess

Test Start: 2012.07.24 @ 11:43:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 900.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	Mud with a scum of oil	0.034

Total Length: 7.00 ft      Total Volume: 0.034 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

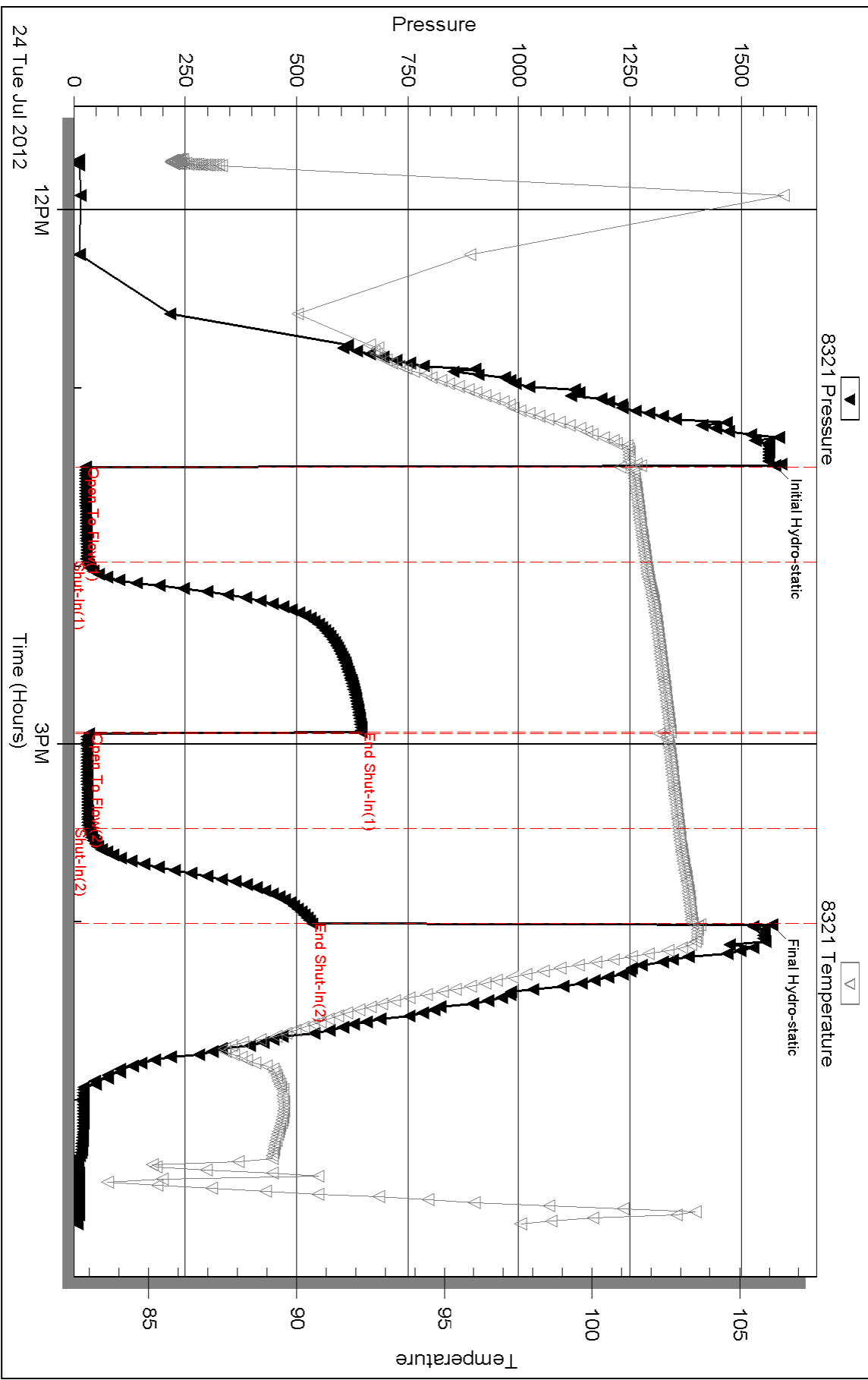
Serial #:

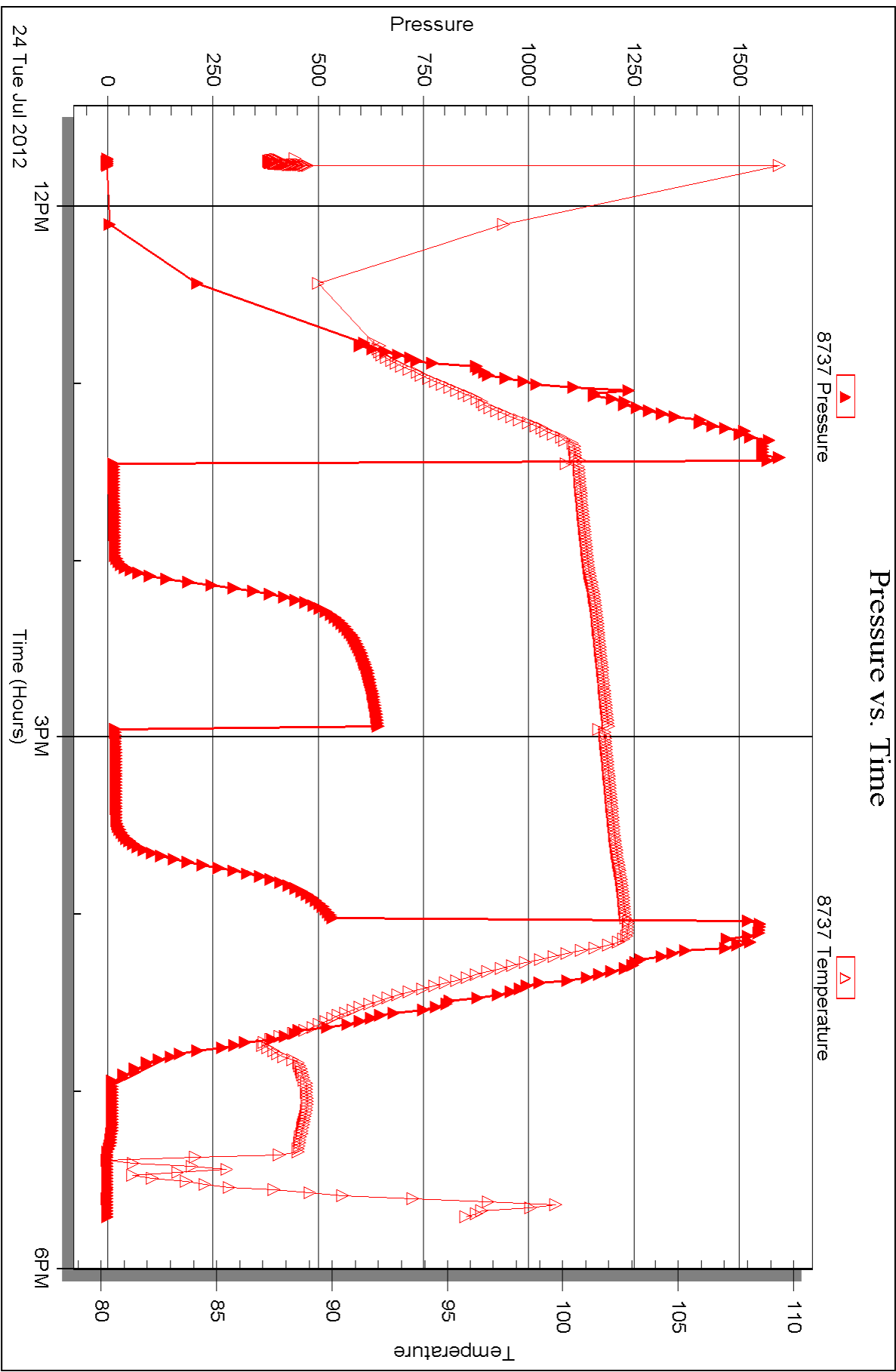
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Nicholas D Hess

**Lee A #1-12**

**12-6s-21w Graham,KS**

Start Date: 2012.07.25 @ 01:01:10

End Date: 2012.07.25 @ 10:06:10

Job Ticket #: 49334                      DST #: 4

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

Printed: 2012.07.31 @ 13:54:16





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49334

**DST#: 4**

ATTN: Nicholas D Hess

Test Start: 2012.07.25 @ 01:01:10

## GENERAL INFORMATION:

Formation: **Lansing-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:16:10

Time Test Ended: 10:06:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3298.00 ft (KB) To 3330.00 ft (KB) (TVD)**

Reference Elevations: 2136.00 ft (KB)

Total Depth: 3330.00 ft (KB) (TVD)

2124.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8321**

**Inside**

Press @ RunDepth: 390.22 psig @ 3299.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.25

End Date:

2012.07.25

Last Calib.:

2012.07.25

Start Time: 01:01:11

End Time:

10:06:10

Time On Btm:

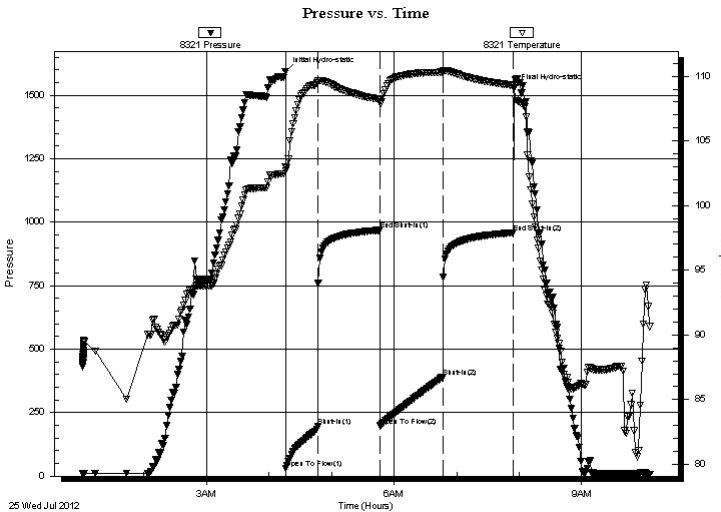
2012.07.25 @ 04:15:40

Time Off Btm:

2012.07.25 @ 07:54:40

**TEST COMMENT:** IFP=Good blow BOB in 9 1/4 min  
ISI=Dead no blow back  
FFP=Good blow BOB in 23 min  
FSI=Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1594.01	102.98	Initial Hydro-static
1	31.29	102.69	Open To Flow (1)
31	194.85	109.54	Shut-In(1)
91	968.19	108.21	End Shut-In(1)
91	197.78	107.94	Open To Flow (2)
151	390.22	110.33	Shut-In(2)
219	958.16	109.31	End Shut-In(2)
219	1527.20	109.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
613.00	Water	7.03
196.00	MW 30%M 70%W	2.75

\* 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

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49334

**DST#: 4**

ATTN: Nicholas D Hess

Test Start: 2012.07.25 @ 01:01:10

## Tool Information

Drill Pipe:	Length: 3112.00 ft	Diameter: 3.80 inches	Volume: 43.65 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 44.50 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3298.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 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			3276.00	
Shut In Tool	5.00			3281.00	
Hydraulic tool	5.00			3286.00	
Safety Joint	3.00			3289.00	
Packer	4.00			3293.00	23.00 Bottom Of Top Packer
Packer	5.00			3298.00	
Stubb	1.00			3299.00	
Recorder	0.00	8321	Inside	3299.00	
Recorder	0.00	8737	Outside	3299.00	
Perforations	28.00			3327.00	
Bullnose	3.00			3330.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49334

**DST#: 4**

ATTN: Nicholas D Hess

Test Start: 2012.07.25 @ 01:01:10

## 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:

51000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 900.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
613.00	Water	7.032
196.00	MW 30%M 70%W	2.749

Total Length: 809.00 ft

Total Volume: 9.781 bbl

Num Fluid Samples: 0

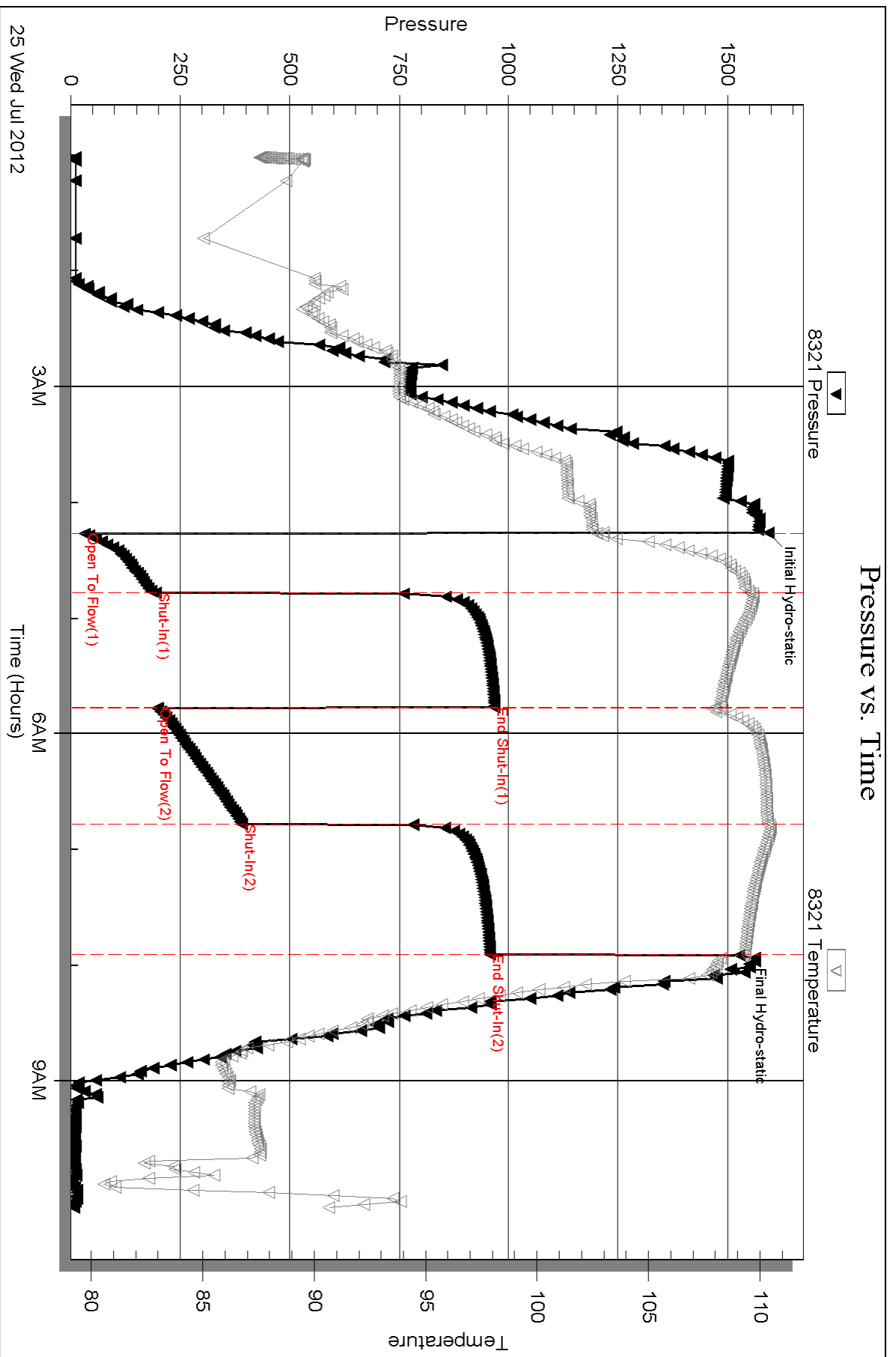
Num Gas Bombs: 0

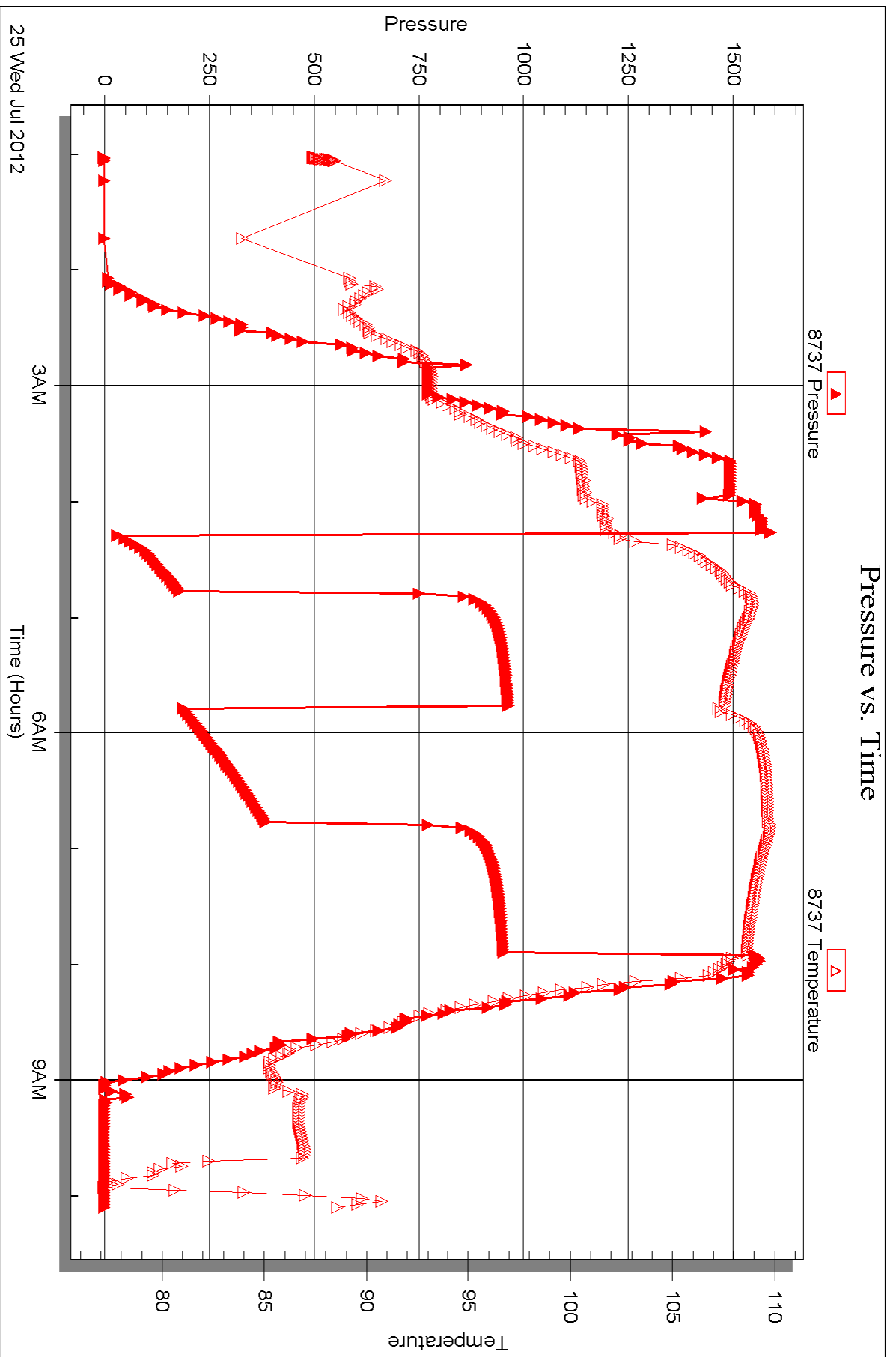
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Nicholas D Hess

### **Lee A #1-12**

#### **12-6s-21w Graham,KS**

Start Date: 2012.07.25 @ 20:53:01

End Date: 2012.07.26 @ 03:04:01

Job Ticket #: 49335                      DST #: 5

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

Printed: 2012.07.31 @ 13:51:11



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49335

**DST#: 5**

ATTN: Nicholas D Hess

Test Start: 2012.07.25 @ 20:53:01

## GENERAL INFORMATION:

Formation: **LKC-E-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:22:01

Time Test Ended: 03:04:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3342.00 ft (KB) To 3393.00 ft (KB) (TVD)**

Reference Elevations: 2136.00 ft (KB)

Total Depth: 3393.00 ft (KB) (TVD)

2124.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8321**

**Inside**

Press @ Run Depth: 75.44 psig @ 3378.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.25

End Date:

2012.07.26

Last Calib.:

2012.07.26

Start Time: 20:53:02

End Time:

03:04:01

Time On Btm:

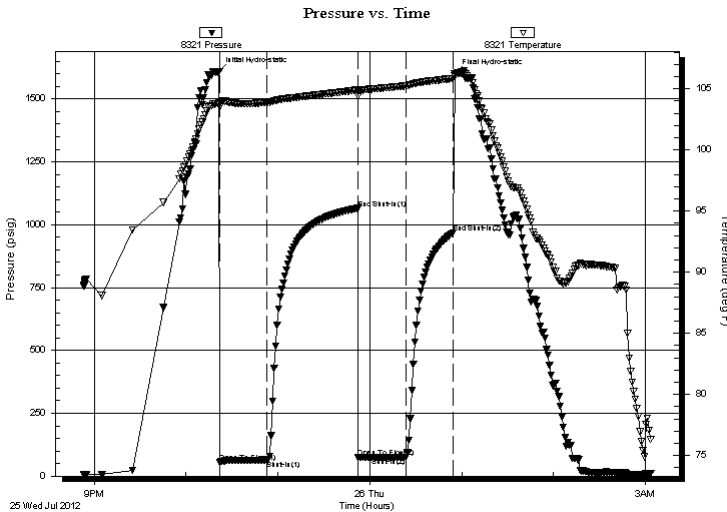
2012.07.25 @ 22:21:31

Time Off Btm:

2012.07.26 @ 00:55:31

**TEST COMMENT:** IFP-Weak blow built to 2 1/2"  
ISI-Dead no blow back  
FFP-Weak surface blow died out in 15 min  
FSI-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1610.08	103.88	Initial Hydro-static
1	56.22	103.49	Open To Flow (1)
32	64.41	103.88	Shut-In(1)
91	1065.18	104.90	End Shut-In(1)
91	75.27	104.46	Open To Flow (2)
122	75.44	105.24	Shut-In(2)
153	967.69	105.84	End Shut-In(2)
154	1600.11	106.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
86.00	Mud w with a scum of oil	0.42

\* 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

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49335

**DST#: 5**

ATTN: Nicholas D Hess

Test Start: 2012.07.25 @ 20:53:01

## Tool Information

Drill Pipe:	Length: 3174.00 ft	Diameter: 3.80 inches	Volume: 44.52 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose:	69000.00 lb
			<u>Total Volume: 45.37 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3342.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	51.00 ft				
Tool Length:	74.00 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			3320.00	
Shut In Tool	5.00			3325.00	
Hydraulic tool	5.00			3330.00	
Safety Joint	3.00			3333.00	
Packer	4.00			3337.00	23.00 Bottom Of Top Packer
Packer	5.00			3342.00	
Stubb	1.00			3343.00	
Perforations	2.00			3345.00	
Change Over Sub	1.00			3346.00	
Drill Pipe	31.00			3377.00	
Change Over Sub	1.00			3378.00	
Recorder	0.00	8321	Inside	3378.00	
Recorder	0.00	8737	Outside	3378.00	
Perforations	12.00			3390.00	
Bullnose	3.00			3393.00	51.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**12-6s-21w Graham,KS**

PO Box 8037  
Wichita KS 67208

**Lee A #1-12**

Job Ticket: 49335

**DST#: 5**

ATTN: Nicholas D Hess

Test Start: 2012.07.25 @ 20:53:01

## 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: 45.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.75 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 800.00 ohm.m

Gas Cushion Pressure: psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
86.00	Mud with a scum of oil	0.423

Total Length: 86.00 ft      Total Volume: 0.423 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

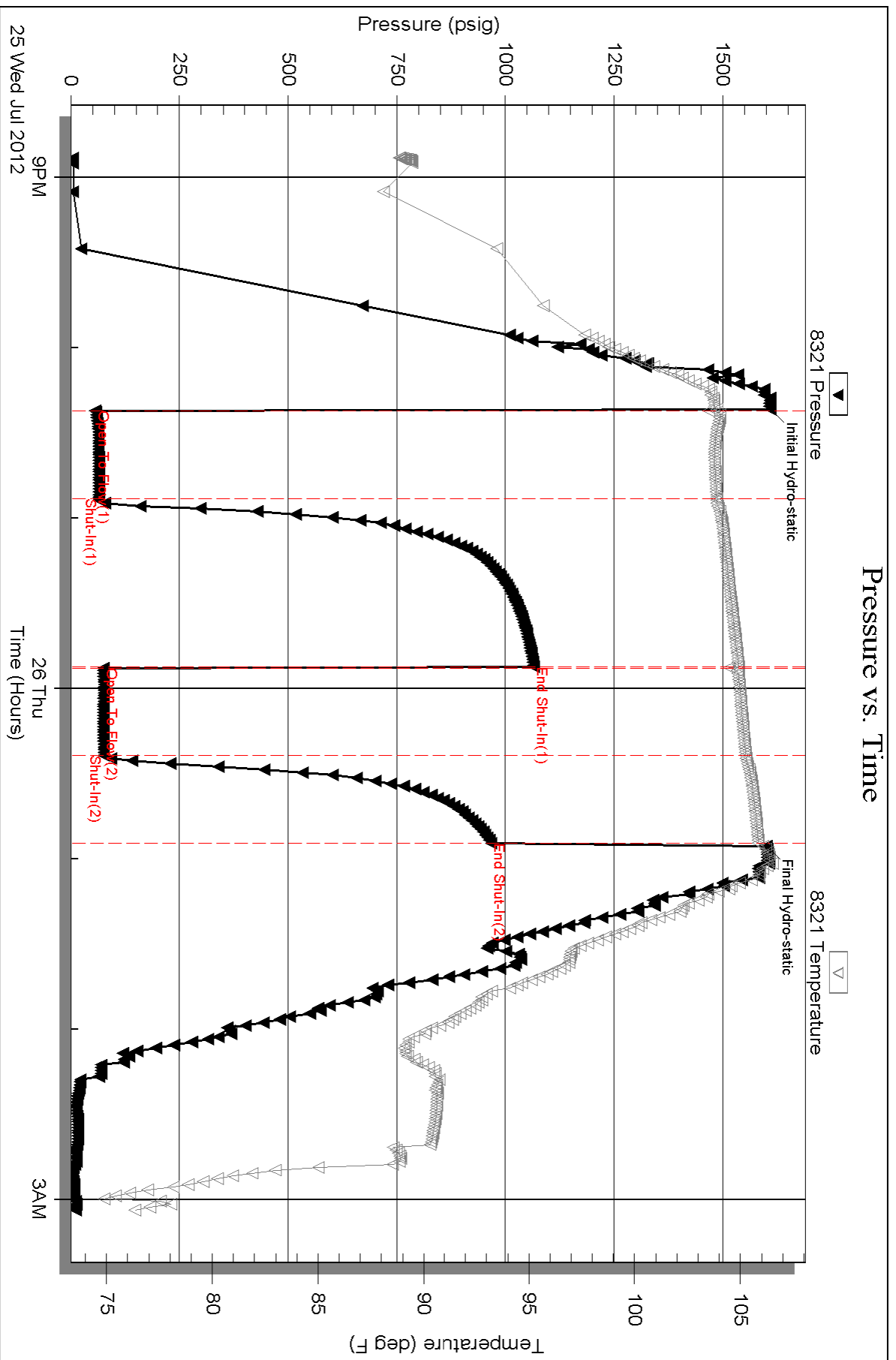
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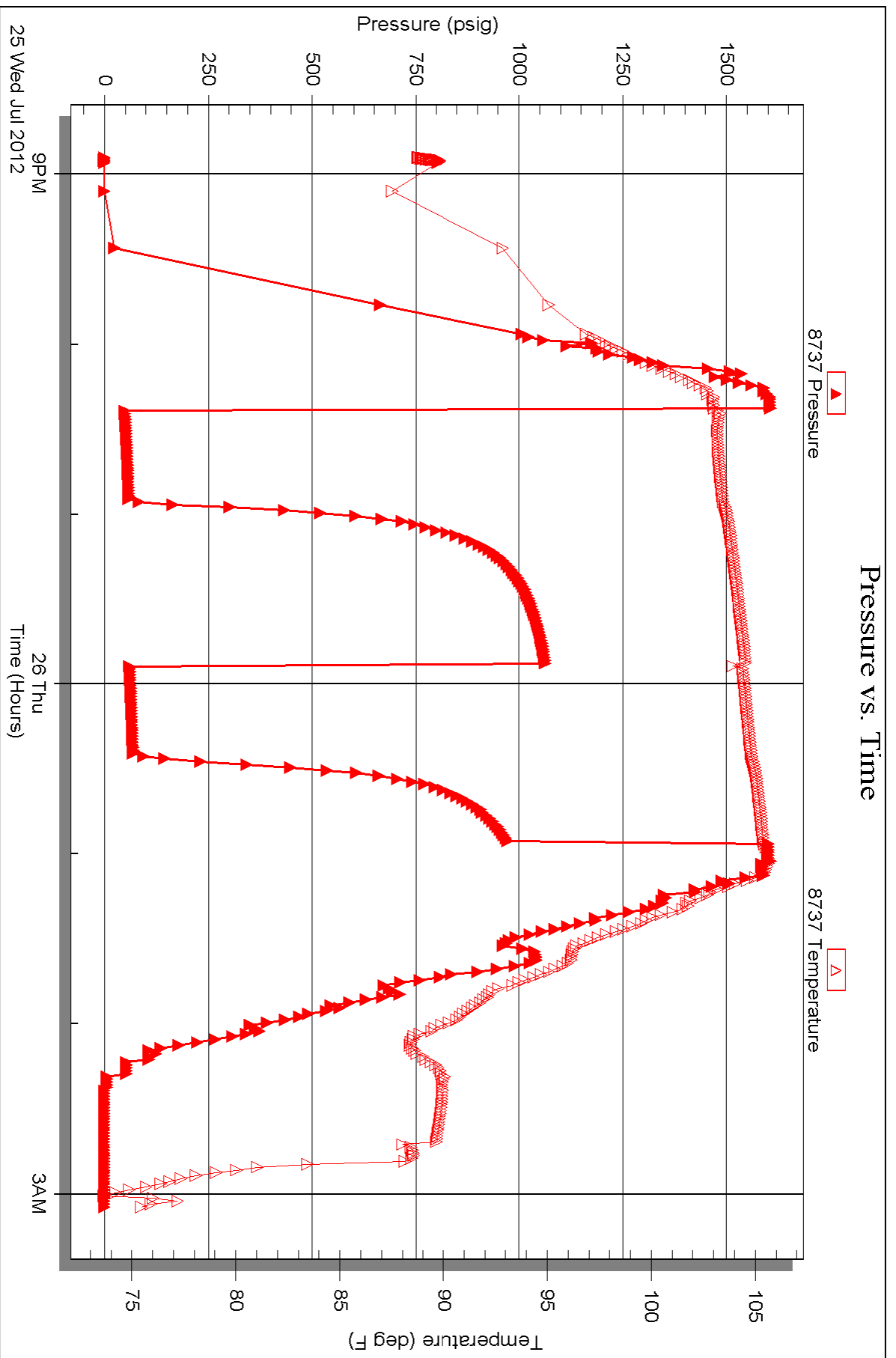
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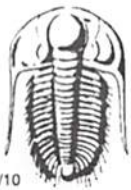
Laboratory Location:

Recovery Comments:

# Pressure vs. Time







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49331

Well Name & No. Lee A 1-12 Test No. 1 Date 7-23-12  
 Company Cobalt Energy LLC Elevation 2134 KB 2124 GL  
 Address B Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Robert Hendrix Rig VAL #3  
 Location: Sec. 12 Twp. Los Rge. 21 W Co. Graham State KS

Interval Tested 3247 - 3275 Zone Tested Toronto  
 Anchor Length 28 Drill Pipe Run 3080 Mud Wt. 8.7  
 Top Packer Depth 3242 Drill Collars Run 172 Vis 45  
 Bottom Packer Depth 3247 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3275 Chlorides 800 ppm System LCM 4

Blow Description FF-Weak Blow Built to 3 IN Died Back to 2 1/4 IN  
ISI-Dead NO Blow Back  
FF-Weak Blow Built to 1/2 IN  
FSI-Dead NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>72</u>	<u>SOCM</u>	<u>5</u>		<u>95</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 72 BHT 1040 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1577  Test 1150 T-On Location 10:17  
 (B) First Initial Flow 43  Jars NO Jars T-Started 10:53  
 (C) First Final Flow 59  Safety Joint 75 T-Open 13:37  
 (D) Initial Shut-In 706  Circ Sub T-Pulled 17:37  
 (E) Second Initial Flow 43  Hourly Standby T-Out 19:20  
 (F) Second Final Flow 48  Mileage 170 RT 263.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 596  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1563  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 400  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 400  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 90  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1488.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1488.50

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49332

Well Name & No. Lee A 1-12 Test No. 2 Date 7-23-12  
 Company Colbalt Energy LLC Elevation 21320 KB 2124 GL  
 Address PO Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Robert Hendrix Rig VAL #3  
 Location: Sec. 12 Twp. 6S Rge. 21W Co. Calhoun State KS

Interval Tested 3187-3230 Zone Tested Dead  
 Anchor Length 43' Anchor 45' Tail Drill Pipe Run ~~292~~ 3017 Mud Wt. 9.1  
 Top Packer Depth 3182 Drill Collars Run 1 Vis 45  
 Bottom Packer Depth 3187 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3275 Chlorides 800 ppm System LCM 4

Blow Description 1st Weak Blow Built To 2 1/4 IN  
ISI-Dead NO Blow Back  
1st Weak Blow Built To 3 IN  
ISI-Dead NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>77</u>	<u>USOCM</u>		<u>2</u>		<u>98</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 77 BHT 1060 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1558  Test 1150 T-On Location 10:17  
 (B) First Initial Flow 28  Jars \_\_\_\_\_ T-Started 19:51  
 (C) First Final Flow 960 53  Safety Joint 75 T-Open 22:16  
 (D) Initial Shut-In 51 960  Circ Sub \_\_\_\_\_ T-Pulled 2:16  
 (E) Second Initial Flow 74 51  Hourly Standby \_\_\_\_\_ T-Out 4:47  
 (F) Second Final Flow 74  Mileage \_\_\_\_\_ Comments \_\_\_\_\_  
 (G) Final Shut-In 941  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1530  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 400  Day Standby \_\_\_\_\_ Total 1825  
 Final Flow 400  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 1825

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49333

Well Name & No. Lee A 1-12 Test No. 3 Date 7-23-12  
 Company Colbalt Energy LLC Elevation 2136 KB 2124 GL  
 Address Po Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Robert Hendrix Rig UAL #3  
 Location: Sec. 12 Twp. 6S Rge. 21W Co. Graham State KS

Interval Tested 3271-3305 Zone Tested Lansing - A  
 Anchor Length 34 Drill Pipe Run 3080 Mud Wt. 9.1  
 Top Packer Depth 3266 Drill Collars Run 172 Vis 47  
 Bottom Packer Depth 3271 Wt. Pipe Run 0 WL 7.8  
 Total Depth 3305 Chlorides 900 ppm System LCM 3  
 Blow Description IP- Weak Blow Built to 1/2 IN  
ISI- Dead No Blow Back  
FFP- Dead No Blow  
BSI- Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>7</u>	<u>MUD WITH OIL SPOTS</u>				

Rec Total 7 BHT 10.3 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1576  Test 1150 T-On Location 11:41  
 (B) First Initial Flow 26  Jars \_\_\_\_\_ T-Started 11:43  
 (C) First Final Flow 30  Safety Joint 75 T-Open 13:28  
 (D) Initial Shut-In 646  Circ Sub \_\_\_\_\_ T-Pulled 15:58  
 (E) Second Initial Flow 34  Hourly Standby \_\_\_\_\_ T-Out 17:42  
 (F) Second Final Flow 33  Mileage 263.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 535  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1570  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

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

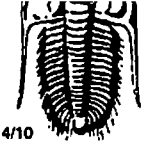
Sub Total 1488.50

MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49334

Well Name & No. Lee A 1-12 Test No. 4 Date 7-25-12  
 Company Colbalt Energy LLC Elevation 2136 KB 2124 GL  
 Address PO Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Robert Herdrix Rig VAL #3  
 Location: Sec. 12 Twp. 6S Rge. 21 W Co. Graham State KS

Interval Tested 3298-3330 Zone Tested LANSING - C  
 Anchor Length 32 Drill Pipe Run 3112 Mud Wt. 9.1  
 Top Packer Depth 3293 Drill Collars Run 172 Vis 47  
 Bottom Packer Depth 3298 Wt. Pipe Run 0 WL 7.8  
 Total Depth 3330 Chlorides 900 ppm System LCM 3  
 Blow Description FP-GOOD BLOW BOB IN 9 1/4 min  
ESI-Dead NO BLOW BACK  
FP-GOOD BLOW BOB IN 23 min  
ESI-Dead NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>1013</u>	<u>WATER</u>			<u>100%</u>	
<u>196</u>	<u>MHW</u>			<u>70%</u>	<u>30%</u>

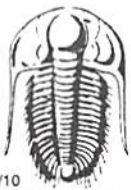
Rec Total 809 BHT 109 Gravity \_\_\_\_\_ API RW .117 @ 93.2 °F Chlorides 51000 ppm

(A) Initial Hydrostatic 7594  Test 1150 T-On Location 00:12  
 (B) First Initial Flow 31  Jars \_\_\_\_\_ T-Started 1:01  
 (C) First Final Flow 195  Safety Joint 75 T-Open 4:18  
 (D) Initial Shut-In 968  Circ Sub \_\_\_\_\_ T-Pulled 7:48  
 (E) Second Initial Flow 198  Hourly Standby \_\_\_\_\_ T-Out 10:07  
 (F) Second Final Flow 390  Mileage 263.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 958  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1527  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 60  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1488.50  
 Total 1488.50  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49335

Well Name & No. Lee A 1-12 Test No. 5 Date 7-25-12  
 Company Colbait Energy LLC Elevation 2136 KB 2124 GL  
 Address PO Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Robert Herdrix Rig VAL #3  
 Location: Sec. 12 Twp. 6 S Rge. 21 W Co. Graham State KS

Interval Tested 3342-3393 Zone Tested LKC-E-F-G  
 Anchor Length 51 Drill Pipe Run 3174 Mud Wt. 9.1  
 Top Packer Depth 3337 Drill Collars Run 172 Vis 47  
 Bottom Packer Depth 3342 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3393 Chlorides 1400 ppm System LCM 3

Blow Description JFP-Weak Blow BUILT TO 2 1/2 IN  
ISF-Dead No Blow Back  
JFP-Weak Surface Blow DIED OUT IN 15 min  
ISF-Dead NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>86</u>	<u>MUD WITH A SCUM OF OIL</u>				<u>100%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 86 BHT 106 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1410  Test 1150 T-On Location 20:30  
 (B) First Initial Flow 56  Jars \_\_\_\_\_ T-Started 20:53  
 (C) First Final Flow 64  Safety Joint 75 T-Open 22:23  
 (D) Initial Shut-In 1065  Circ Sub \_\_\_\_\_ T-Pulled 00:53  
 (E) Second Initial Flow 75  Hourly Standby \_\_\_\_\_ T-Out 3:04  
 (F) Second Final Flow 75  Mileage 527  
 (G) Final Shut-In 968  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1400  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Shale Packer \_\_\_\_\_  
 Final Flow 30  Extra Packer \_\_\_\_\_  
 Final Shut-In 30  Extra Recorder \_\_\_\_\_  
 Sub Total 0  
 Total 1752  
 Sub Total 1752  Accessibility \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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