



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Nicholas D Hess

Terry A #1-1

1-11s-25w Trego,KS

Start Date: 2012.06.05 @ 10:41:52

End Date: 2012.06.05 @ 19:45:22

Job Ticket #: 47776 DST #: 1

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

Printed: 2012.06.11 @ 13:52:20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47776

DST#: 1

ATTN: Nicholas D Hess

Test Start: 2012.06.05 @ 10:41:52

GENERAL INFORMATION:

Formation: **Lansing -C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:21:52

Time Test Ended: 19:45:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: **3754.00 ft (KB) To 3774.00 ft (KB) (TVD)**

Reference Elevations: 2400.00 ft (KB)

Total Depth: 3774.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8321 Inside

Press @ Run Depth: 829.40 psig @ 3757.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.05 End Date: 2012.06.05

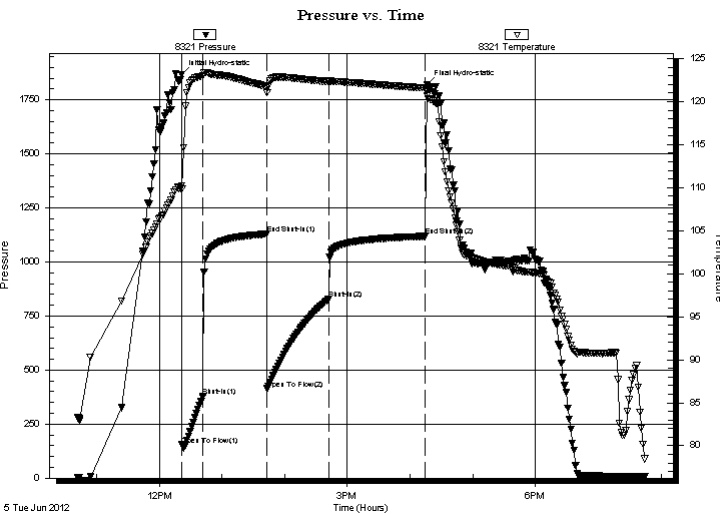
Last Calib.: 2012.06.05

Start Time: 10:41:53 End Time: 19:44:22

Time On Btm: 2012.06.05 @ 12:21:22

Time Off Btm: 2012.06.05 @ 16:15:52

TEST COMMENT: IFP-Strong blow BOB in 1 min
ISI-Good blow back BOB in 8 1/4 min
FFP-Strong blow BOB in 1 3/4 min
FSI-Weak surface blow back built to 1/2 in died out in 35 min



PRESSURE SUMMARY

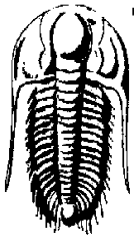
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1868.09	110.21	Initial Hydro-static
1	153.78	109.85	Open To Flow (1)
21	378.39	122.94	Shut-In(1)
82	1129.74	121.76	End Shut-In(1)
82	413.23	121.04	Open To Flow (2)
141	829.40	122.29	Shut-In(2)
233	1118.70	121.59	End Shut-In(2)
235	1818.77	120.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud with a scum of oil	0.58
63.00	V SOCMW 3%O 30%M 67%W	0.88
1992.00	Gassy Oil 30%G 70%O	27.94
0.00	1606-GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47776

DST#: 1

ATTN: Nicholas D Hess

Test Start: 2012.06.05 @ 10:41:52

GENERAL INFORMATION:

Formation: **Lansing -C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:21:52

Time Test Ended: 19:45:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 3754.00 ft (KB) To 3774.00 ft (KB) (TVD)

Reference Elevations: 2400.00 ft (KB)

Total Depth: 3774.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8737 Outside

Press @ RunDepth: psig @ 3757.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.05 End Date: 2012.06.05

Last Calib.: 2012.06.05

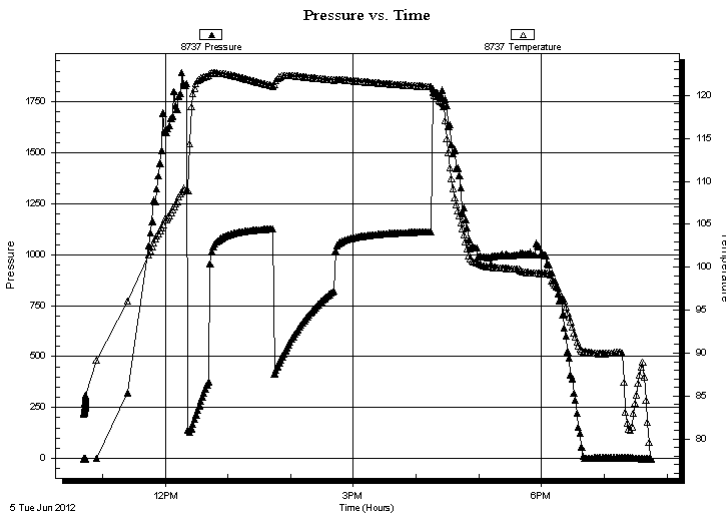
Start Time: 10:41:53 End Time: 19:44:52

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Strong blow BOB in 1 min
ISI-Good blow back BOB in 8 1/4 min
FFP-Strong blow BOB in 1 3/4 min
FSI-Weak surface blow back built to 1/2 in died out in 35 min

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w ith a scum of oil	0.58
63.00	VSOCMW 3%O 30%M 67%W	0.88
1992.00	Gassy Oil 30%G 70%O	27.94
0.00	1606-GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47776

DST#: 1

ATTN: Nicholas D Hess

Test Start: 2012.06.05 @ 10:41:52

Tool Information

Drill Pipe:	Length: 3710.00 ft	Diameter: 3.80 inches	Volume: 52.04 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 52.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3754.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	43.00 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			3732.00	
Shut In Tool	5.00			3737.00	
Hydraulic tool	5.00			3742.00	
Safety Joint	3.00			3745.00	
Packer	4.00			3749.00	23.00 Bottom Of Top Packer
Packer	5.00			3754.00	
Stubb	1.00			3755.00	
Perforations	2.00			3757.00	
Recorder	0.00	8321	Inside	3757.00	
Recorder	0.00	8737	Outside	3757.00	
Perforations	14.00			3771.00	
Bullnose	3.00			3774.00	20.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47776

DST#: 1

ATTN: Nicholas D Hess

Test Start: 2012.06.05 @ 10:41:52

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	Mud with a scum of oil	0.577
63.00	VSOCMW 3%O 30%M 67%W	0.884
1992.00	Gassy Oil 30%G 70%O	27.943
0.00	1606-GIP	0.000

Total Length: 2115.00 ft

Total Volume: 29.404 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

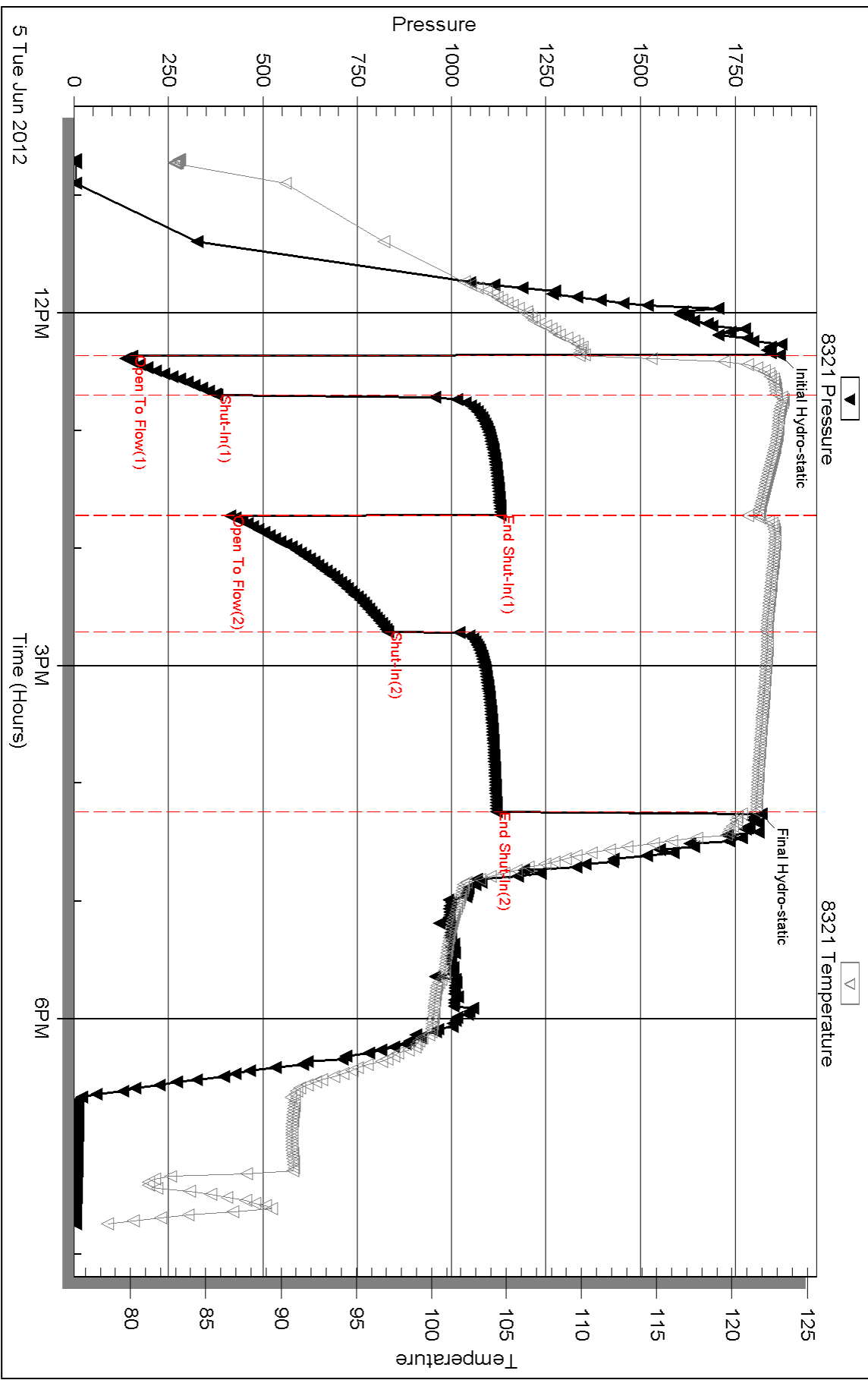
Inside

Cobalt Energy LLC

Terry A #1-1

DST Test Number: 1

Pressure vs. Time

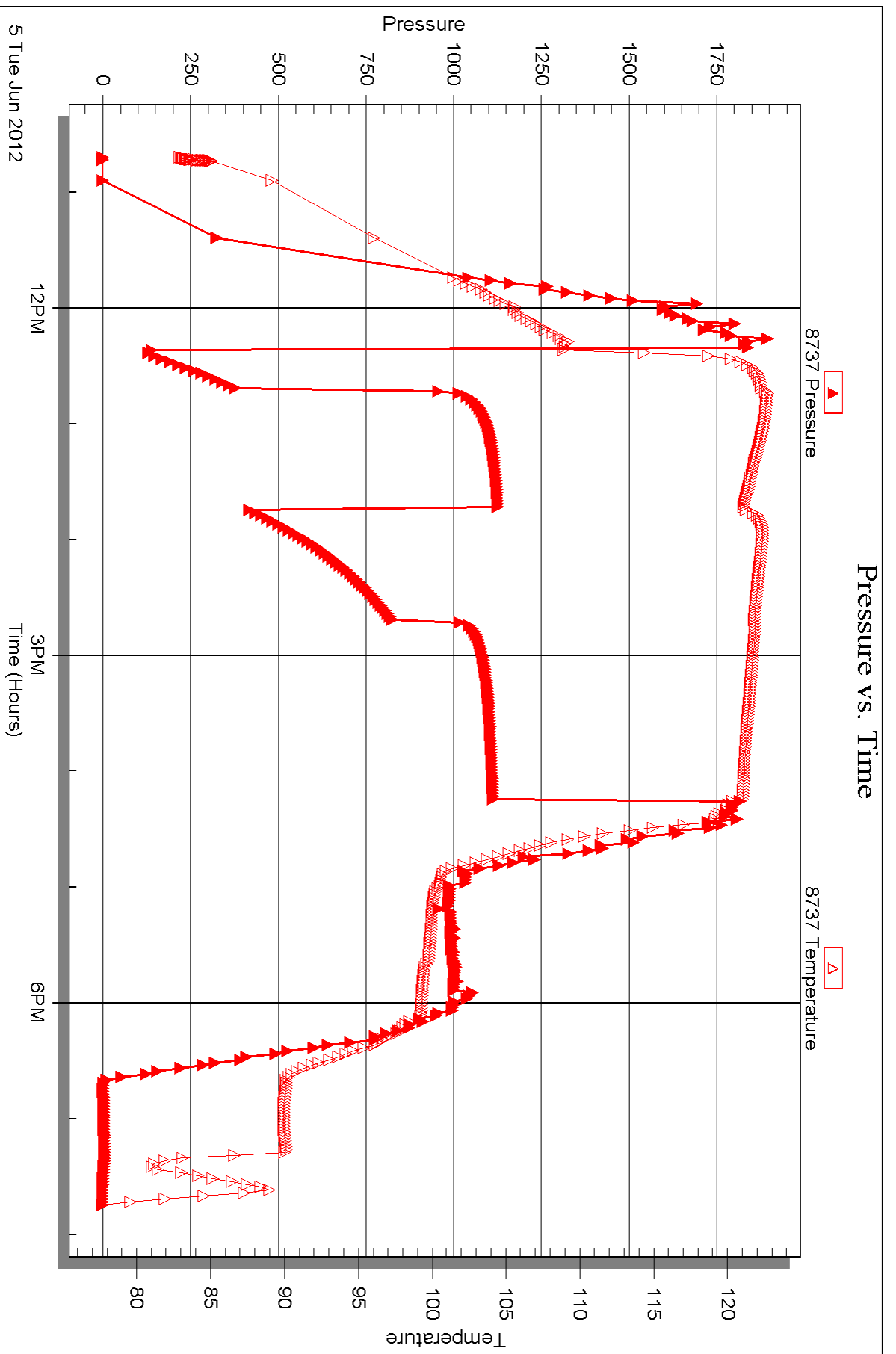


Serial #: 8737

Outside Cobalt Energy LLC

Terry A #1-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Nicholas D Hess

Terry A #1-1

1-11s-25w Trego,KS

Start Date: 2012.06.06 @ 01:31:13

End Date: 2012.06.06 @ 09:44:43

Job Ticket #: 47777 DST #: 2

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

Printed: 2012.06.11 @ 13:54:05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47777

DST#: 2

ATTN: Nicholas D Hess

Test Start: 2012.06.06 @ 01:31:13

GENERAL INFORMATION:

Formation: **Lansing D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:10:13

Time Test Ended: 09:44:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3775.00 ft (KB) To 3790.00 ft (KB) (TVD)

Reference Elevations: 2400.00 ft (KB)

Total Depth: 3790.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8321

Inside

Press @ Run Depth: 1062.71 psig @ 3778.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.06

End Date: 2012.06.06

Last Calib.: 2012.06.06

Start Time: 01:31:14

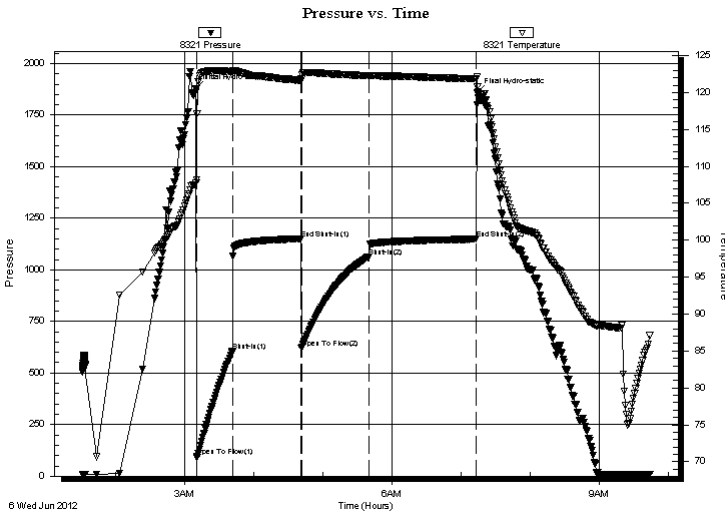
End Time: 09:43:43

Time On Btm: 2012.06.06 @ 03:09:43

Time Off Btm: 2012.06.06 @ 07:14:13

TEST COMMENT: IFP-Strong blow BOB in 1 3/4 min
ISI-Weak surface blow back built to 1/2 in died out in 24 min
FFP-Strong blow BOB in 2 min
FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1877.38	107.79	Initial Hydro-static
1	94.92	108.16	Open To Flow (1)
32	604.16	122.84	Shut-In(1)
91	1150.15	121.64	End Shut-In(1)
92	619.77	121.85	Open To Flow (2)
150	1062.71	122.30	Shut-In(2)
244	1148.71	121.87	End Shut-In(2)
245	1856.93	120.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2139.00	MW 10%M90%W	29.74
126.00	MW with a scum of oil 35%M 65%W	1.77
20.00	V/SOCGWM 2%O 5%G 33%W 60%M	0.28
0.00	171-GIP	0.00

* Recovery from multiple tests

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

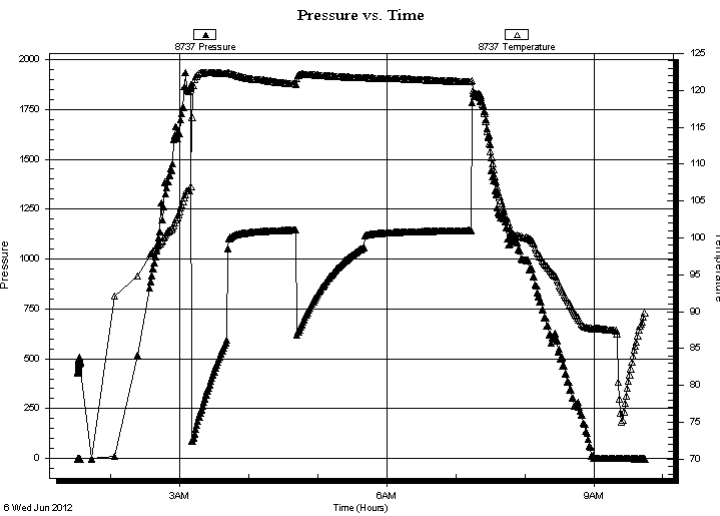
1-11s-25w Trego,KS
Terry A #1-1
 Job Ticket: 47777 **DST#: 2**
 Test Start: 2012.06.06 @ 01:31:13

GENERAL INFORMATION:

Formation: **Lansing D**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:10:13 Tester: Jeff Brown
 Time Test Ended: 09:44:43 Unit No: 44
Interval: 3775.00 ft (KB) To 3790.00 ft (KB) (TVD) Reference Elevations: 2400.00 ft (KB)
 Total Depth: 3790.00 ft (KB) (TVD) 2395.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8737 **Outside**
 Press @ Run Depth: psig @ 3778.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.06 End Date: 2012.06.06 Last Calib.: 2012.06.06
 Start Time: 01:31:40 End Time: 09:44:09 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP-Strong blow BOB in 1 3/4 min
 ISI-Weak surface blow back built to 1/2 in died out in 24 min
 FFP-Strong blow BOB in 2 min
 FSI-Dead no blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
2139.00	MW 10%M90%W	29.74
126.00	MW with a scum of oil 35%M 65%W	1.77
20.00	V SOCGWM 2%O 5%G 33%W 60%M	0.28
0.00	171-GIP	0.00

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47777

DST#: 2

ATTN: Nicholas D Hess

Test Start: 2012.06.06 @ 01:31:13

Tool Information

Drill Pipe:	Length: 3741.00 ft	Diameter: 3.80 inches	Volume: 52.48 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 52.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3775.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 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			3753.00	
Shut In Tool	5.00			3758.00	
Hydraulic tool	5.00			3763.00	
Safety Joint	3.00			3766.00	
Packer	4.00			3770.00	23.00 Bottom Of Top Packer
Packer	5.00			3775.00	
Stubb	1.00			3776.00	
Perforations	2.00			3778.00	
Recorder	0.00	8321	Inside	3778.00	
Recorder	0.00	8737	Outside	3778.00	
Perforations	9.00			3787.00	
Bullnose	3.00			3790.00	15.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47777

DST#: 2

ATTN: Nicholas D Hess

Test Start: 2012.06.06 @ 01:31:13

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2139.00	MW 10%M90%W	29.740
126.00	MW with a scum of oil 35%M 65%W	1.767
20.00	VSO CGWM 2%O 5%G 33%W 60%M	0.281
0.00	171-GIP	0.000

Total Length: 2285.00 ft

Total Volume: 31.788 bbl

Num Fluid Samples: 0

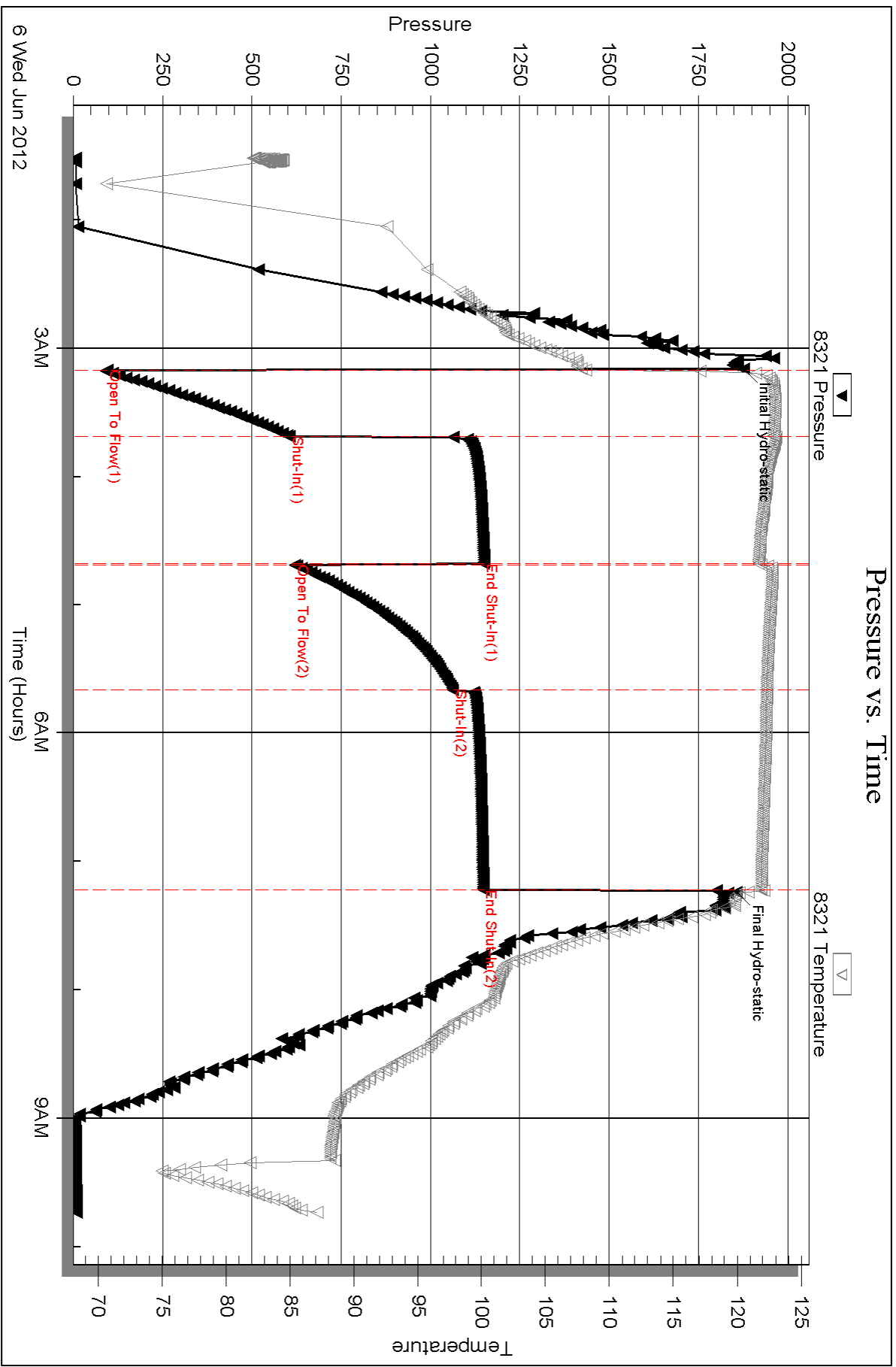
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

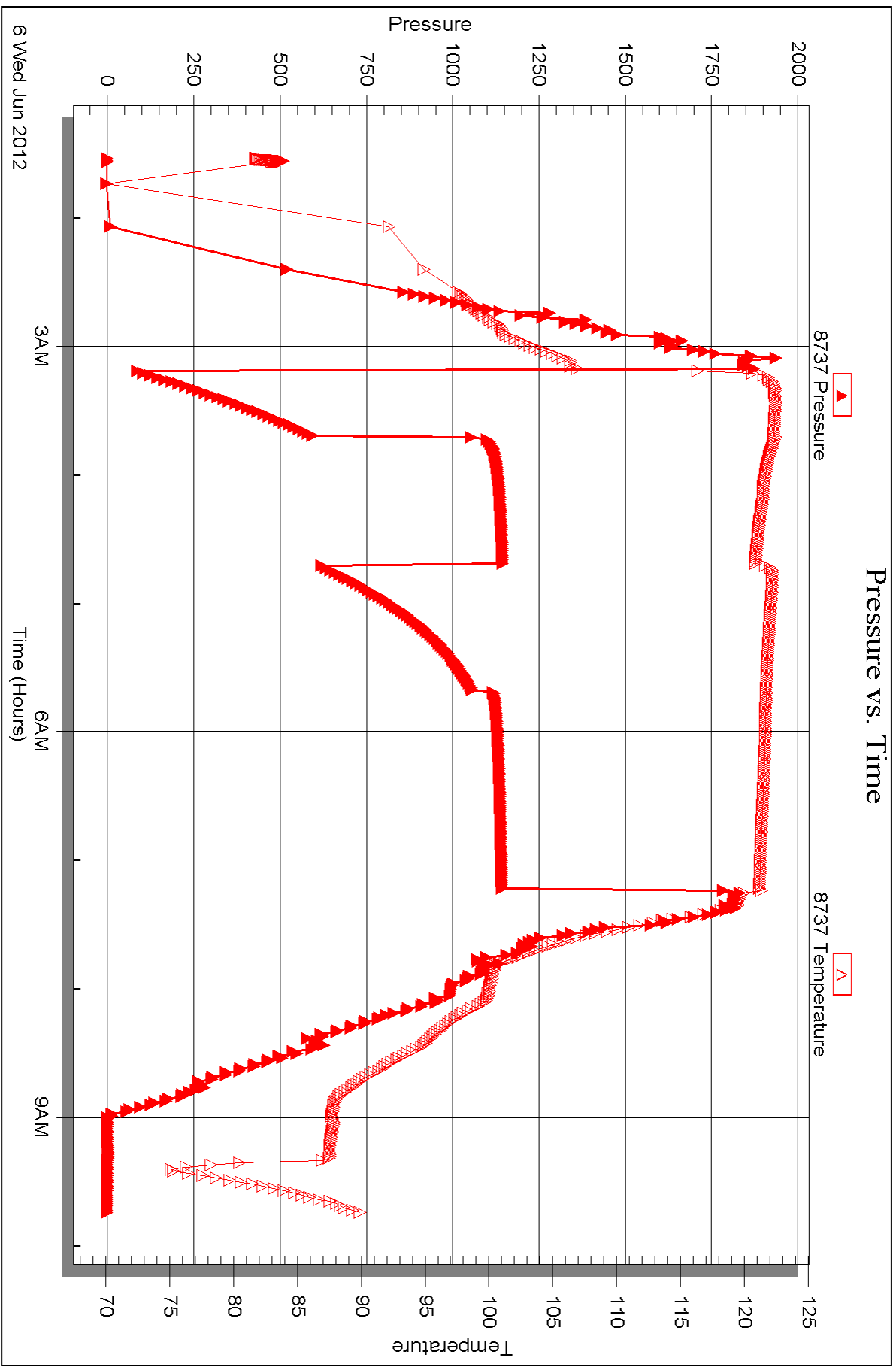


Serial #: 8737

Outside Cobalt Energy LLC

Terry A #1-1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Nicholas D Hess

Terry A #1-1

1-11s-25w Trego,KS

Start Date: 2012.06.06 @ 16:44:27

End Date: 2012.06.07 @ 00:44:57

Job Ticket #: 47778 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.11 @ 13:50:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47778

DST#: 3

ATTN: Nicholas D Hess

Test Start: 2012.06.06 @ 16:44:27

GENERAL INFORMATION:

Formation: **Lansing-E & F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:50:57

Time Test Ended: 00:44:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3802.00 ft (KB) To 3835.00 ft (KB) (TVD)

Reference Elevations: 2400.00 ft (KB)

Total Depth: 3835.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8321

Inside

Press @ Run Depth: 195.44 psig @ 3805.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.06

End Date:

2012.06.07

Last Calib.:

2012.06.07

Start Time: 16:44:28

End Time:

00:43:57

Time On Btm:

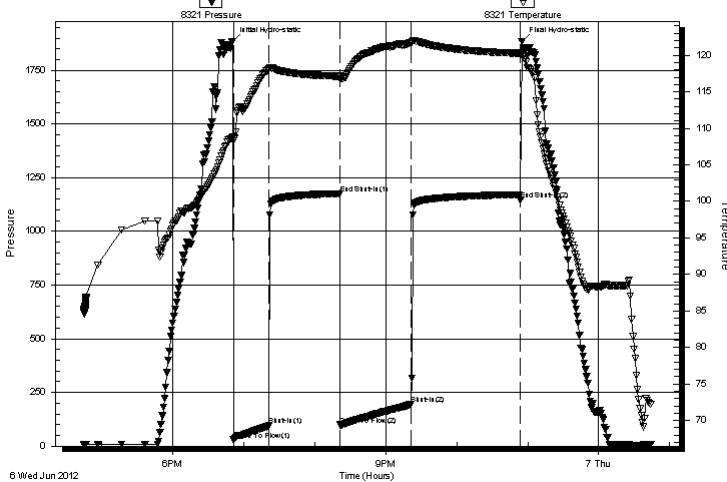
2012.06.06 @ 18:50:27

Time Off Btm:

2012.06.06 @ 22:54:57

TEST COMMENT: IFP-Good blow BOB in 23 1/2 min
ISI-Dead no blow back
FFP-Good blow BOB in 32 min
FSI-Dead no blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.09	108.82	Initial Hydro-static
1	29.48	108.49	Open To Flow (1)
31	94.77	118.13	Shut-In(1)
91	1176.03	117.15	End Shut-In(1)
91	98.87	116.74	Open To Flow (2)
151	195.44	121.75	Shut-In(2)
244	1145.95	120.25	End Shut-In(2)
245	1885.06	120.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
312.00	MW 20%M80%W	4.11
45.00	WM with oil spots 40%W 60%M	0.63

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-11s-25w Trego, KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

ATTN: Nicholas D Hess

Job Ticket: 47778

DST#: 3

Test Start: 2012.06.06 @ 16:44:27

GENERAL INFORMATION:

Formation: **Lansing-E & F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:50:57

Time Test Ended: 00:44:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: **3802.00 ft (KB) To 3835.00 ft (KB) (TVD)**

Reference Elevations: 2400.00 ft (KB)

Total Depth: 3835.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8737**

Outside

Press @ Run Depth: psig @ 3805.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.06

End Date:

2012.06.07

Last Calib.:

2012.06.07

Start Time: 16:44:09

End Time:

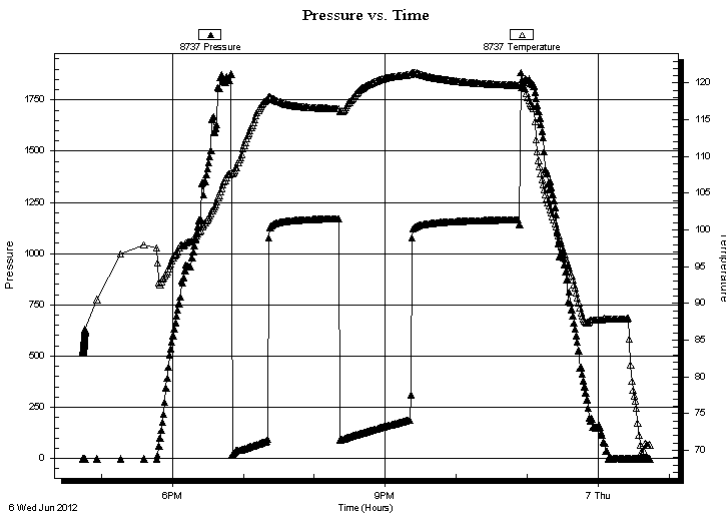
00:43:38

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Good blow BOB in 23 1/2 min
ISI-Dead no blow back
FFP-Good blow BOB in 32 min
FSI-Dead no blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
312.00	MW 20%M80%W	4.11
45.00	WM with oil spots 40%W 60%M	0.63

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47778

DST#: 3

ATTN: Nicholas D Hess

Test Start: 2012.06.06 @ 16:44:27

Tool Information

Drill Pipe:	Length: 3773.00 ft	Diameter: 3.80 inches	Volume: 52.93 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 53.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3802.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	56.00 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			3780.00	
Shut In Tool	5.00			3785.00	
Hydraulic tool	5.00			3790.00	
Safety Joint	3.00			3793.00	
Packer	4.00			3797.00	23.00 Bottom Of Top Packer
Packer	5.00			3802.00	
Stubb	1.00			3803.00	
Perforations	2.00			3805.00	
Recorder	0.00	8321	Inside	3805.00	
Recorder	0.00	8737	Outside	3805.00	
Perforations	27.00			3832.00	
Bullnose	3.00			3835.00	33.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47778

DST#: 3

ATTN: Nicholas D Hess

Test Start: 2012.06.06 @ 16:44:27

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
312.00	MW 20%M80%W	4.112
45.00	WM with oil spots 40%W 60%M	0.631

Total Length: 357.00 ft

Total Volume: 4.743 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

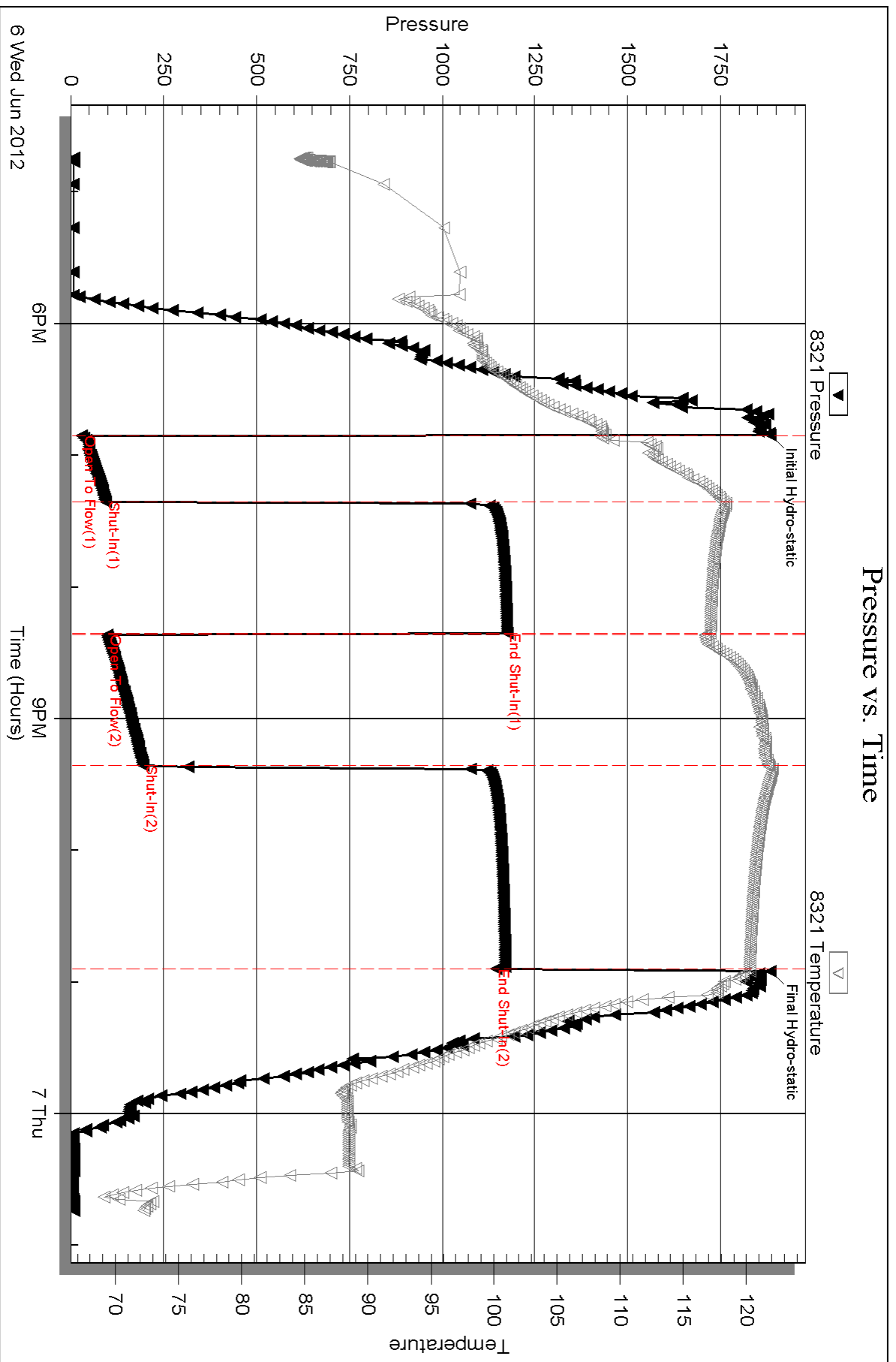
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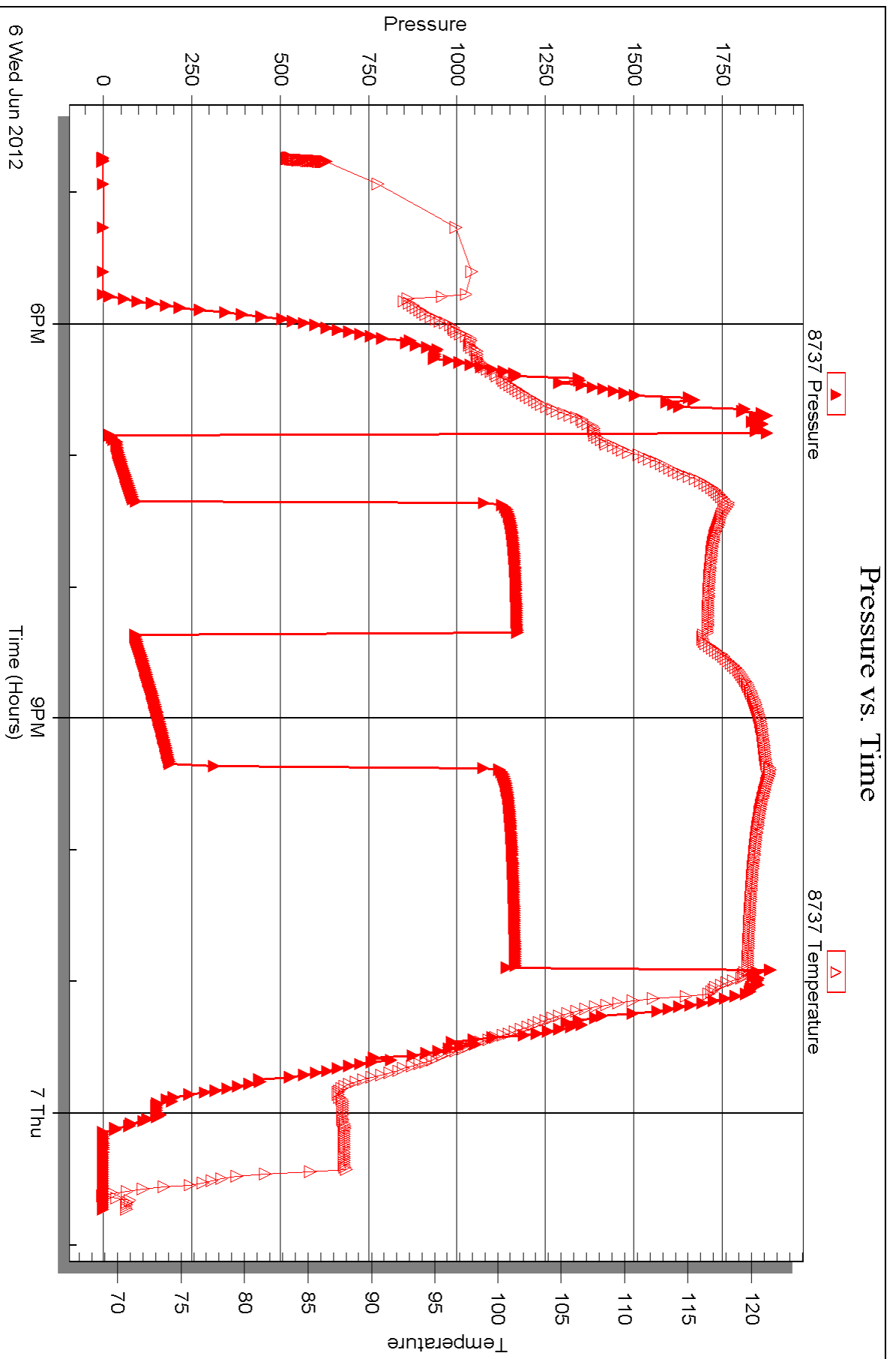
Laboratory Name:

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

Terry A #1-1

1-11s-25w Trego,KS

Start Date: 2012.06.07 @ 09:27:14

End Date: 2012.06.07 @ 18:17:44

Job Ticket #: 47779 DST #: 4

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

Printed: 2012.06.11 @ 13:47:00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47779

DST#: 4

ATTN: Nicholas D Hess

Test Start: 2012.06.07 @ 09:27:14

GENERAL INFORMATION:

Formation: **LKC-H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:14

Time Test Ended: 18:17:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3858.00 ft (KB) To 3890.00 ft (KB) (TVD)

Reference Elevations: 2400.00 ft (KB)

Total Depth: 3890.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8321 Inside

Press @ Run Depth: 405.15 psig @ 3861.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.07 End Date: 2012.06.07

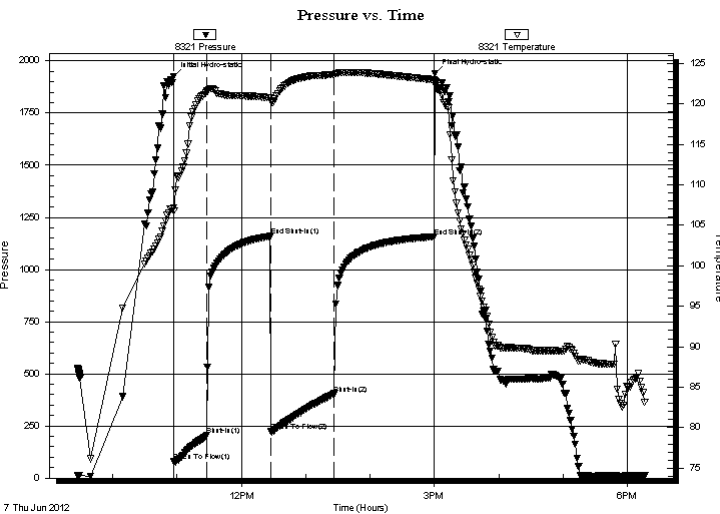
Last Calib.: 2012.06.07

Start Time: 09:27:15 End Time: 18:16:44

Time On Btm: 2012.06.07 @ 10:56:44

Time Off Btm: 2012.06.07 @ 15:00:44

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
ISI-Good blow back BOB in 11 3/4 min
FFP-Strong blow BOB in 3 min
FSI-Good blow back BOB in 10 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.35	107.16	Initial Hydro-static
1	79.92	106.83	Open To Flow (1)
31	205.44	121.50	Shut-In(1)
91	1159.78	120.73	End Shut-In(1)
91	226.12	120.41	Open To Flow (2)
150	405.15	123.63	Shut-In(2)
243	1157.53	122.96	End Shut-In(2)
244	1941.26	122.87	Final Hydro-static

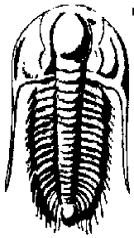
Recovery

Length (ft)	Description	Volume (bbl)
60.00	V SOCGMW 15%G 3%O 35%M 47%W	0.58
63.00	OCGWM 10%G 15%O 10%W 65%M	0.88
895.00	Gassy Oil 10%G 90%O	12.55
0.00	1512-GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47779

DST#: 4

ATTN: Nicholas D Hess

Test Start: 2012.06.07 @ 09:27:14

GENERAL INFORMATION:

Formation: **LKC-H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:14

Time Test Ended: 18:17:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3858.00 ft (KB) To 3890.00 ft (KB) (TVD)

Reference Elevations: 2400.00 ft (KB)

Total Depth: 3890.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8737 Outside

Press @ Run Depth: psig @ 3861.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.07

End Date:

2012.06.07

Last Calib.:

2012.06.07

Start Time: 09:28:00

End Time:

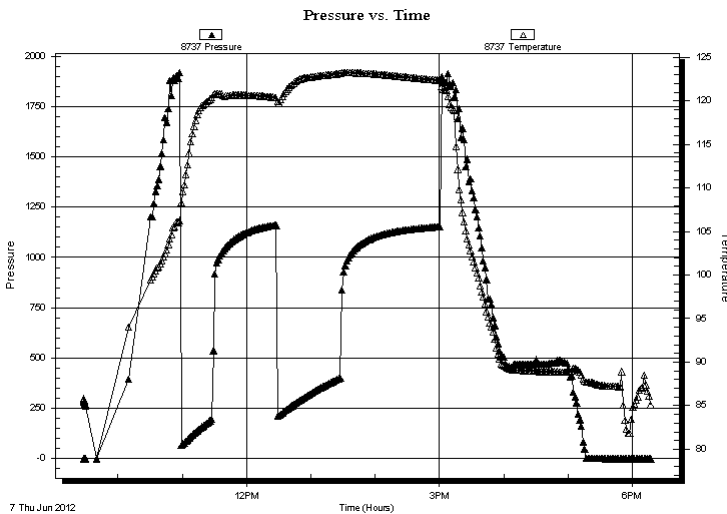
18:17:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
ISI-Good blow back BOB in 11 3/4 min
FFP-Strong blow BOB in 3 min
FSI-Good blow back BOB in 10 min

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	V SOCGMW 15%G 3%O 35%M 47%W	0.58
63.00	OCGWM 10%G 15%O 10%W 65%M	0.88
895.00	Gassy Oil 10%G 90%O	12.55
0.00	1512-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

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47779

DST#: 4

ATTN: Nicholas D Hess

Test Start: 2012.06.07 @ 09:27:14

Tool Information

Drill Pipe:	Length: 3837.00 ft	Diameter: 3.80 inches	Volume: 53.82 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3858.00 ft			Final 59000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3836.00	
Shut In Tool	5.00			3841.00	
Hydraulic tool	5.00			3846.00	
Safety Joint	3.00			3849.00	
Packer	4.00			3853.00	23.00 Bottom Of Top Packer
Packer	5.00			3858.00	
Stubb	1.00			3859.00	
Perforations	2.00			3861.00	
Recorder	0.00	8321	Inside	3861.00	
Recorder	0.00	8737	Outside	3861.00	
Perforations	26.00			3887.00	
Bullnose	3.00			3890.00	32.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47779

DST#: 4

ATTN: Nicholas D Hess

Test Start: 2012.06.07 @ 09:27:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	VSOCGMW 15%G 3%O 35%M 47%W	0.577
63.00	OCGWM 10%G 15%O 10%W 65%M	0.884
895.00	Gassy Oil 10%G 90%O	12.554
0.00	1512-GIP	0.000

Total Length: 1018.00 ft

Total Volume: 14.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

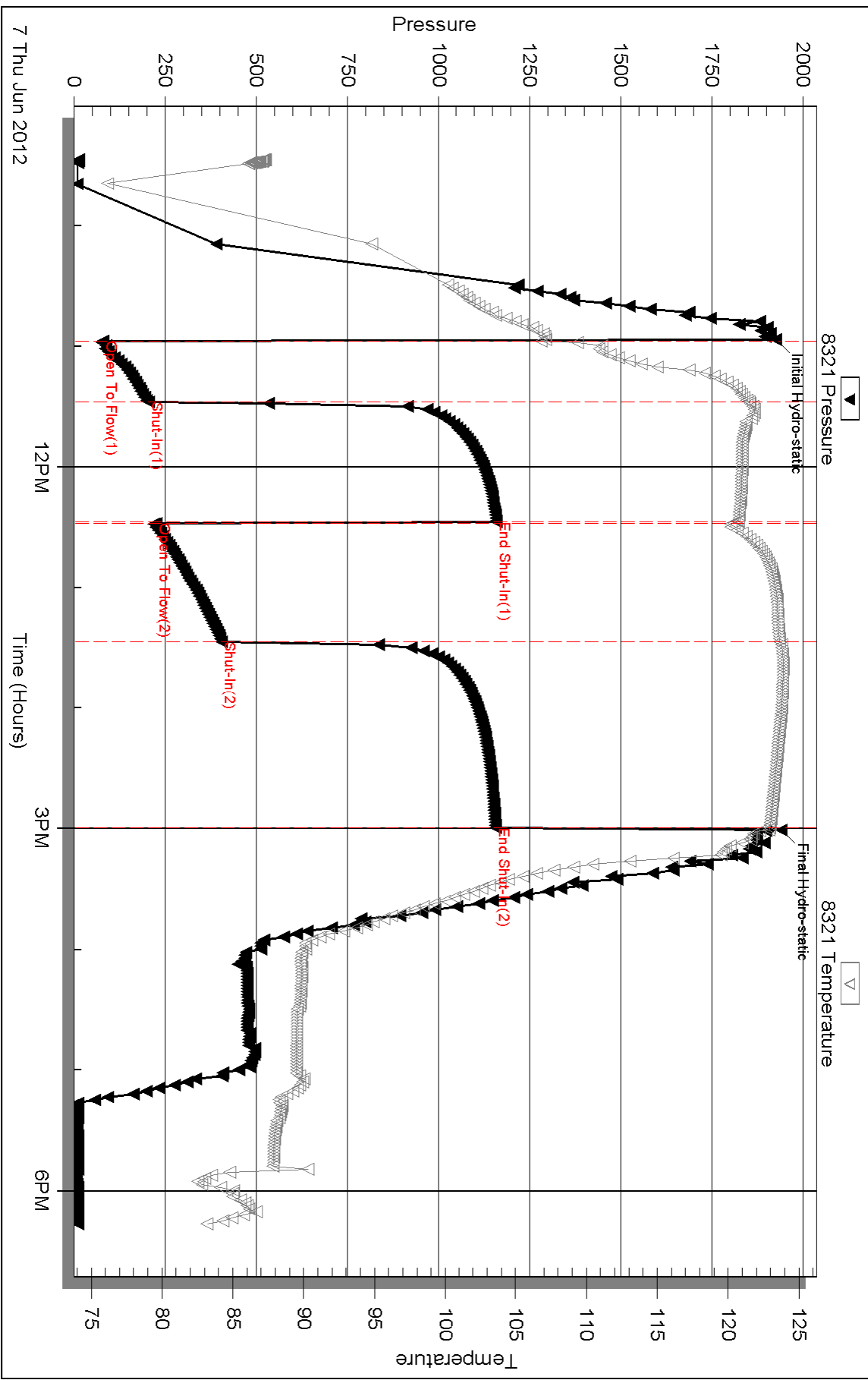
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

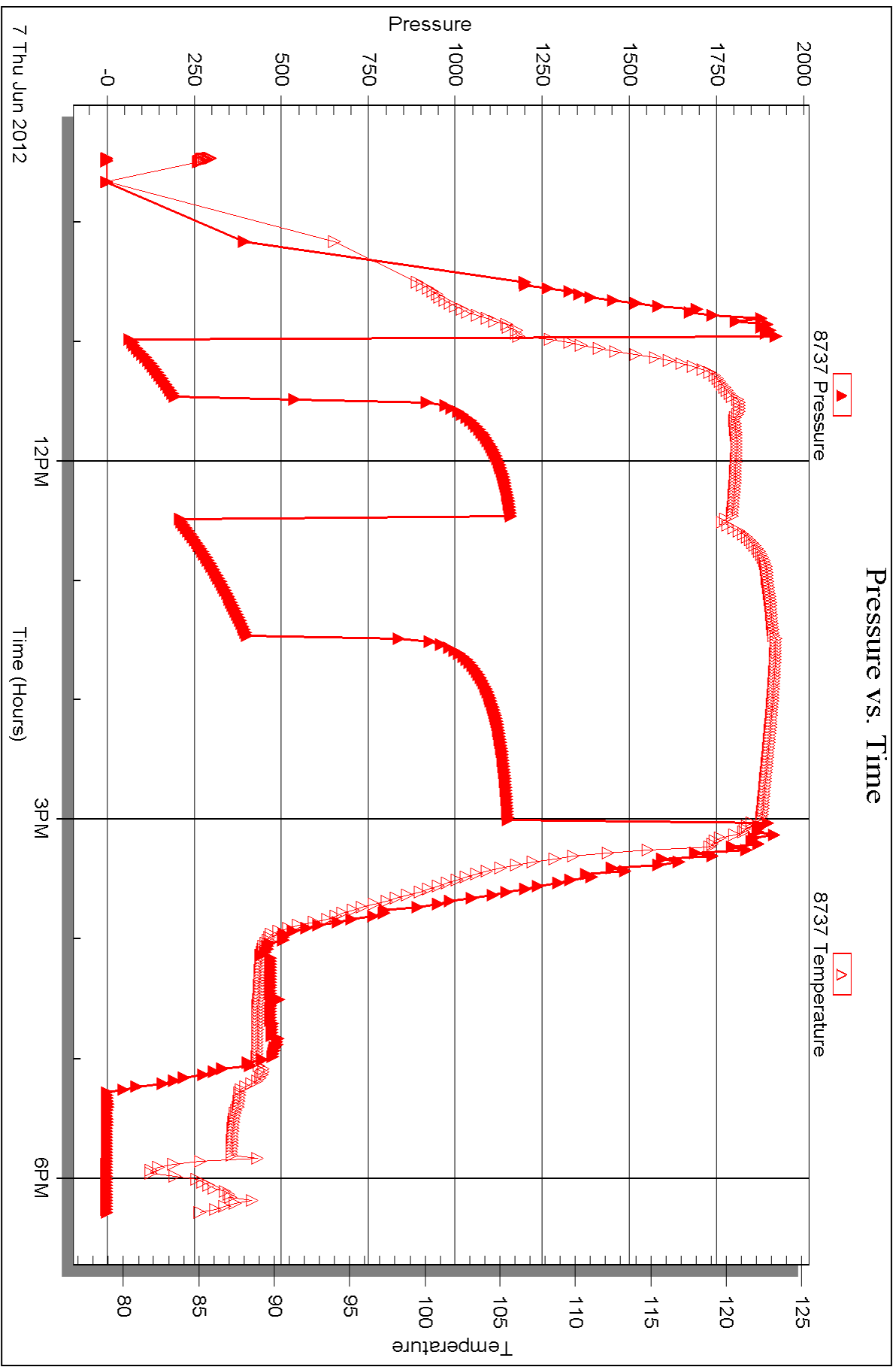


Serial #: 8737

Outside Cobalt Energy LLC

Terry A #1-1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Nicholas D Hess

Terry A #1-1

1-11s-25w Trego,KS

Start Date: 2012.06.08 @ 03:35:04

End Date: 2012.06.08 @ 09:17:04

Job Ticket #: 47780 DST #: 5

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

Printed: 2012.06.11 @ 13:46:20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47780

DST#: 5

ATTN: Nicholas D Hess

Test Start: 2012.06.08 @ 03:35:04

GENERAL INFORMATION:

Formation: **LKC-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:15:04

Time Test Ended: 09:17:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3896.00 ft (KB) To 3939.00 ft (KB) (TVD)

Reference Elevations: 2400.00 ft (KB)

Total Depth: 3939.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8321

Inside

Press @ Run Depth: 30.27 psig @ 3900.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.08

End Date:

2012.06.08

Last Calib.:

2012.06.08

Start Time:

03:35:05

End Time:

09:17:04

Time On Btm:

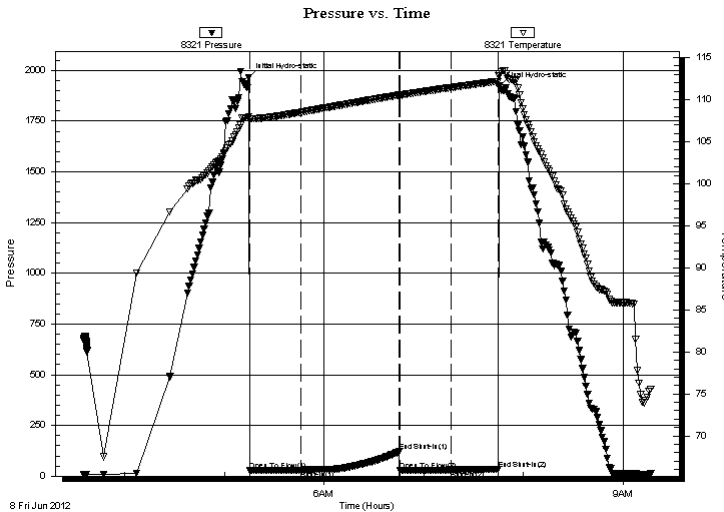
2012.06.08 @ 05:14:34

Time Off Btm:

2012.06.08 @ 07:45:04

TEST COMMENT: IFP-Weak blow built to 3/4 in
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	1964.27	108.01	Initial Hydro-static
1	28.15	107.67	Open To Flow (1)
31	30.18	108.50	Shut-In(1)
91	120.35	110.55	End Shut-In(1)
91	28.37	110.52	Open To Flow (2)
122	30.27	111.43	Shut-In(2)
150	32.57	112.19	End Shut-In(2)
151	1921.33	112.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	VSOCM 3%O 97%M	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47780

DST#: 5

ATTN: Nicholas D Hess

Test Start: 2012.06.08 @ 03:35:04

GENERAL INFORMATION:

Formation: **LKC-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:15:04

Time Test Ended: 09:17:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: **3896.00 ft (KB) To 3939.00 ft (KB) (TVD)**

Reference Elevations: 2400.00 ft (KB)

Total Depth: 3939.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8737** Outside

Press @ Run Depth: psig @ 3900.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.08

End Date: 2012.06.08

Last Calib.: 2012.06.08

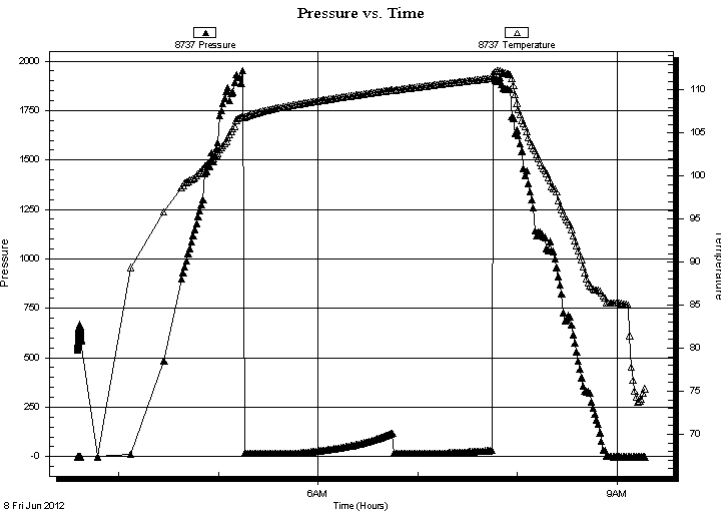
Start Time: 03:35:05

End Time: 09:17:04

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Weak blow built to 3/4 in
ISI-Dead no blow back
FFP-Dead no blow
FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	V SOCM 3%O 97%M	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

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47780

DST#: 5

ATTN: Nicholas D Hess

Test Start: 2012.06.08 @ 03:35:04

Tool Information

Drill Pipe:	Length: 3868.00 ft	Diameter: 3.80 inches	Volume: 54.26 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 54.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3896.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	66.00 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			3874.00	
Shut In Tool	5.00			3879.00	
Hydraulic tool	5.00			3884.00	
Safety Joint	3.00			3887.00	
Packer	4.00			3891.00	23.00 Bottom Of Top Packer
Packer	5.00			3896.00	
Stubb	1.00			3897.00	
Perforations	2.00			3899.00	
Change Over Sub	1.00			3900.00	
Recorder	0.00	8321	Inside	3900.00	
Recorder	0.00	8737	Outside	3900.00	
Drill Pipe	31.00			3931.00	
Change Over Sub	1.00			3932.00	
Perforations	4.00			3936.00	
Bullnose	3.00			3939.00	43.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47780

DST#: 5

ATTN: Nicholas D Hess

Test Start: 2012.06.08 @ 03:35:04

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: 65.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 3400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	VSOCM 3%O 97%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

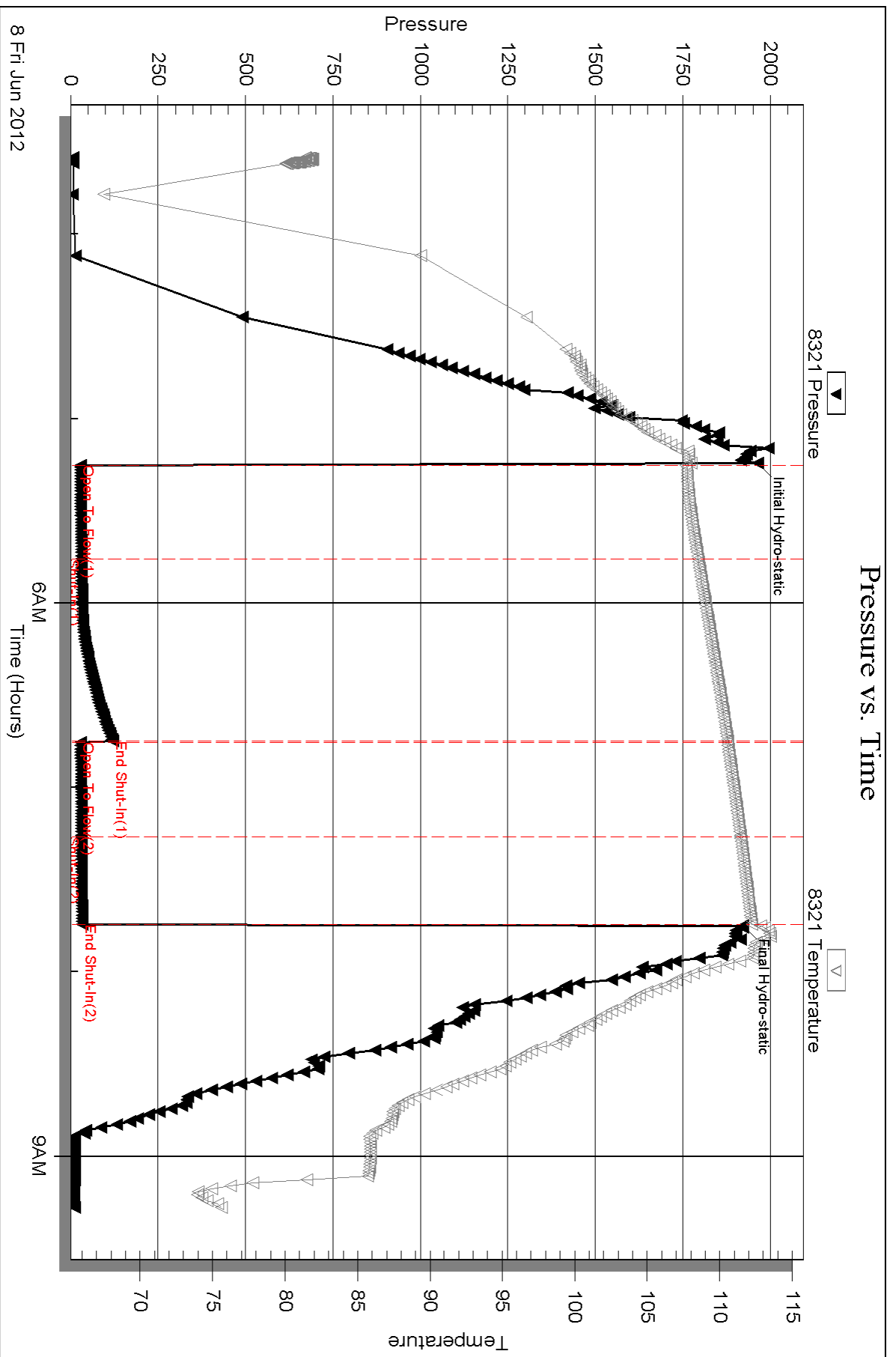
Num Gas Bombs: 0

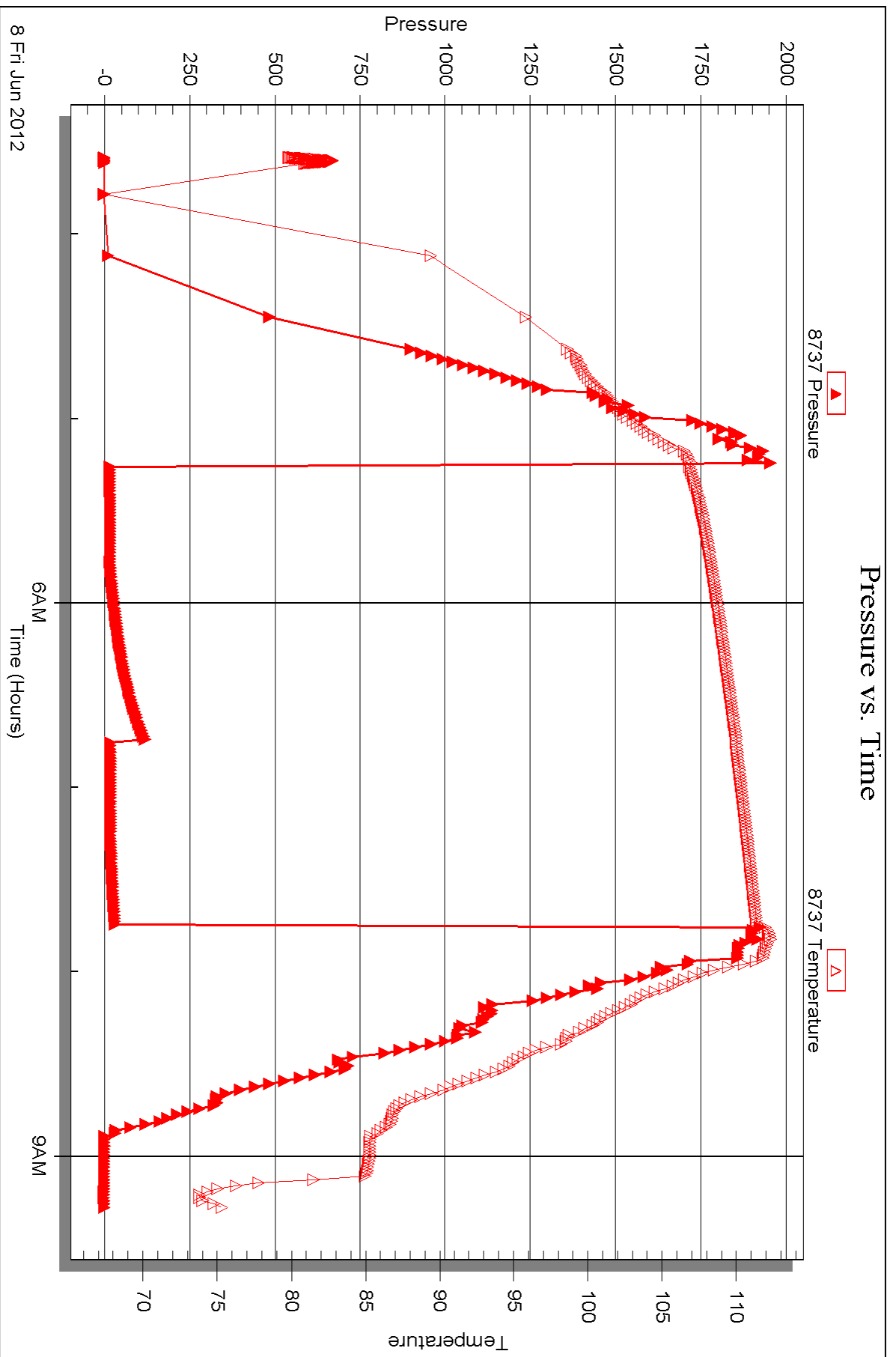
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Nicholas D Hess

Terry A #1-1

1-11s-25w Trego,KS

Start Date: 2012.06.09 @ 05:24:52

End Date: 2012.06.09 @ 10:39:52

Job Ticket #: 47781 DST #: 6

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

Printed: 2012.06.11 @ 13:45:43



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47781

DST#: 6

ATTN: Nicholas D Hess

Test Start: 2012.06.09 @ 05:24:52

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:30:22

Time Test Ended: 10:39:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 4160.00 ft (KB) To 4205.00 ft (KB) (TVD)

Reference Elevations: 2400.00 ft (KB)

Total Depth: 4205.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8321 Inside

Press @ Run Depth: 40.34 psig @ 4164.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.09

End Date:

2012.06.09

Last Calib.:

2012.06.09

Start Time:

05:24:53

End Time:

10:38:52

Time On Btm:

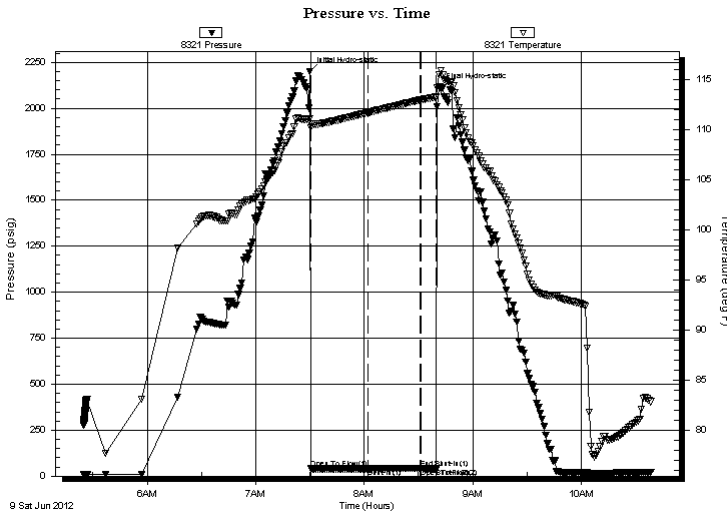
2012.06.09 @ 07:29:52

Time Off Btm:

2012.06.09 @ 08:41:22

TEST COMMENT: IFP-Weak blow built to 3/4 in
ISI-Dead no blow back
FFP-Dead no blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2201.10	111.08	Initial Hydro-static
1	40.35	110.20	Open To Flow (1)
32	40.34	111.70	Shut-In(1)
61	43.26	112.97	End Shut-In(1)
62	40.48	112.99	Open To Flow (2)
70	39.53	113.27	Shut-In(2)
72	2114.34	115.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w ith oil spots	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

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47781

DST#: 6

ATTN: Nicholas D Hess

Test Start: 2012.06.09 @ 05:24:52

Tool Information

Drill Pipe:	Length: 3901.00 ft	Diameter: 3.80 inches	Volume: 54.72 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: 267.00 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose:	69000.00 lb
			<u>Total Volume: 56.03 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4160.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	68.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4138.00	
Shut In Tool	5.00			4143.00	
Hydraulic tool	5.00			4148.00	
Safety Joint	3.00			4151.00	
Packer	4.00			4155.00	23.00 Bottom Of Top Packer
Packer	5.00			4160.00	
Stubb	1.00			4161.00	
Perforations	2.00			4163.00	
Change Over Sub	1.00			4164.00	
Recorder	0.00	8321	Inside	4164.00	
Recorder	0.00	8737	Outside	4164.00	
Drill Pipe	31.00			4195.00	
Change Over Sub	1.00			4196.00	
Perforations	6.00			4202.00	
Bullnose	3.00			4205.00	45.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-11s-25w Trego,KS

PO Box 8037
Wichita KS 67208

Terry A #1-1

Job Ticket: 47781

DST#: 6

ATTN: Nicholas D Hess

Test Start: 2012.06.09 @ 05:24:52

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w ith oil spots	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

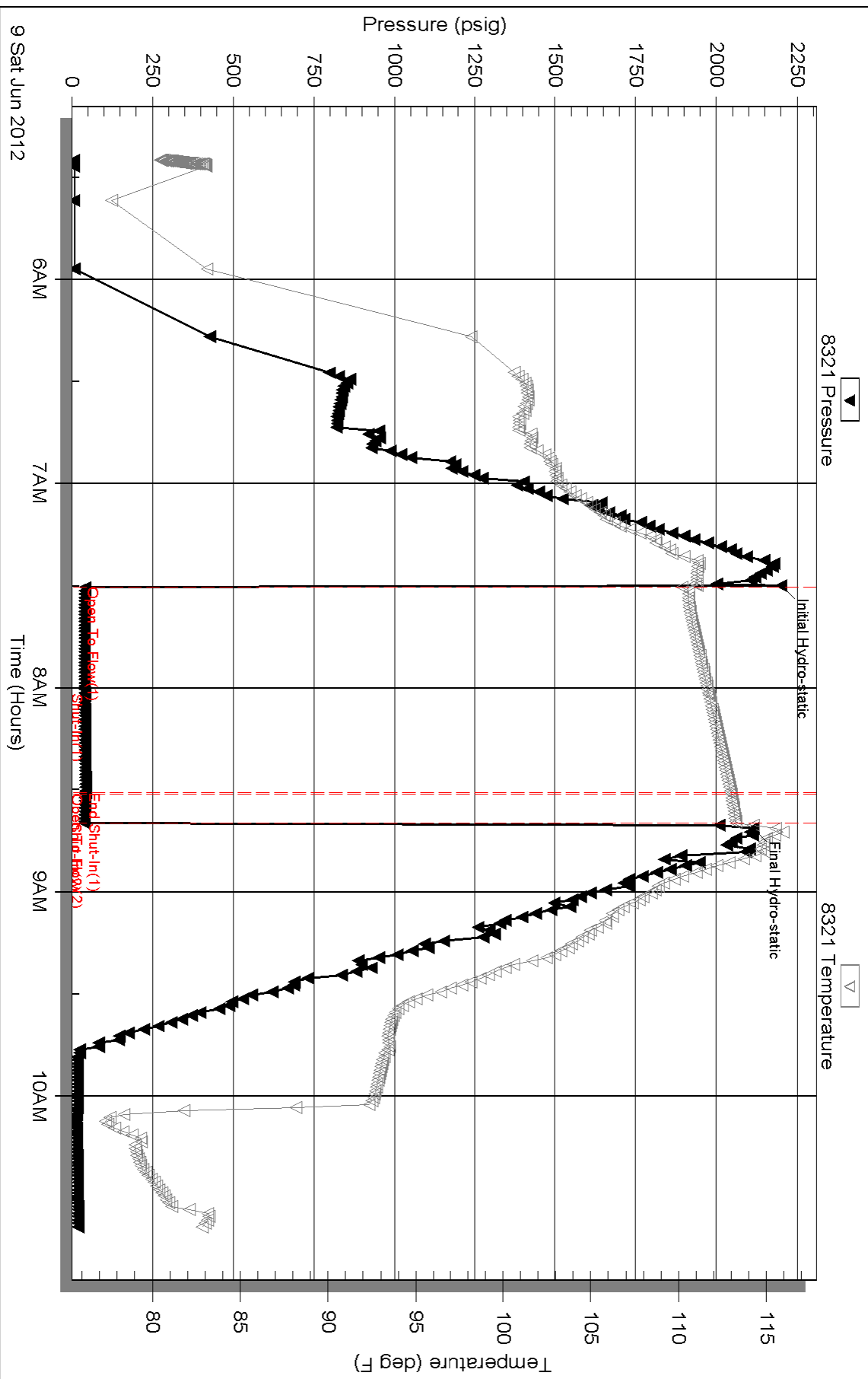
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

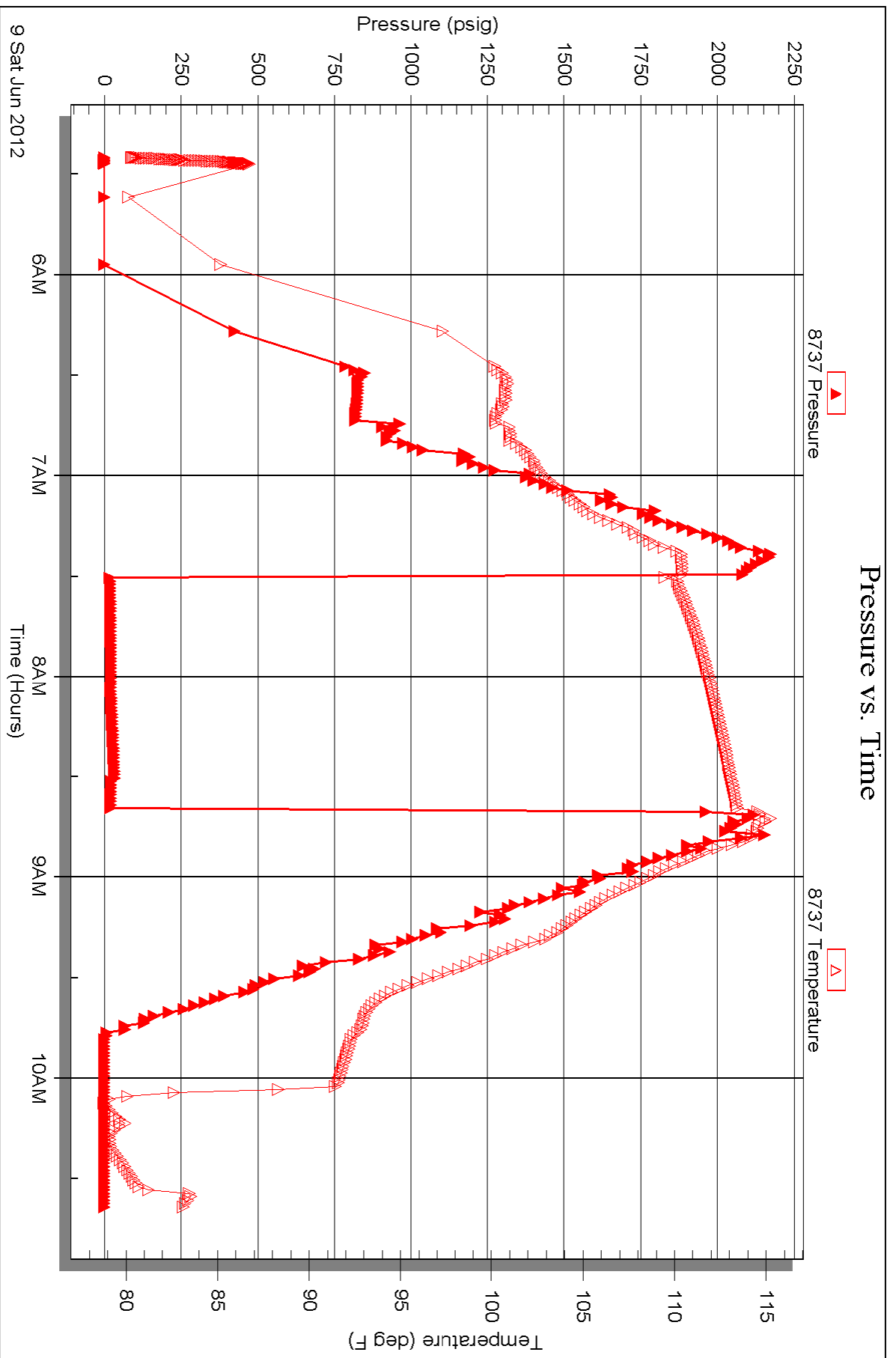


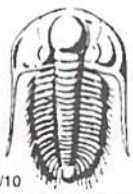
Serial #: 8737

Outside Cobalt Energy LLC

Terry A #1-1

DST Test Number: 6





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47776

Well Name & No. Terry A 1-1 Test No. 1 Date 2-5-12
 Company Cobalt Energy LLC Elevation 2404 KB 2399 GL
 Address PO Box 8037 Wichita KS 67208
 Co. Rep / Geo. Coley Baker Rig Murfin #16
 Location: Sec. 1 Twp. 11 S Rge. 25 W Co. Trego State Ks

Interval Tested 3754-3774 Zone Tested Lasing C
 Anchor Length 20 Drill Pipe Run 3710 Mud Wt. 9.1
 Top Packer Depth 3749 Drill Collars Run 29 Vis 58
 Bottom Packer Depth 3754 Wt. Pipe Run 0 WL 4.4
 Total Depth 3774 Chlorides 1100 ppm System LCM 2

Blow Description FF Strong Blow BOB IN 1 min
ISL Good Blow Back BOB IN 8 1/4 min
FF Strong Blow BOB IN 1 3/4 min
PSL Weak Surface Blow Back Built to 1/2 IN DIED OUT IN 35 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>400</u>	<u>Feet of mud with a scum of oil</u>				
<u>403</u>	<u>Feet of USOC MW</u>		<u>3%</u>	<u>67%</u>	<u>30%</u>
<u>1992</u>	<u>Feet of Gassy Oil</u>	<u>30%</u>	<u>70%</u>		
	<u>Feet of 16000 GIP</u>				
	<u>Feet of</u>				

Rec Total 2115 BHT 122 Gravity 28 API RW 126 @ 94.4 °F Chlorides 46,000 ppm

(A) Initial Hydrostatic 1848 Test 1150 T-On Location 10:16
 (B) First Initial Flow 154 Jars _____ T-Started 10:41
 (C) First Final Flow 378 Safety Joint 75 T-Open 12:23
 (D) Initial Shut-In 1130 Circ Sub 50 T-Pulled 16:13
 (E) Second Initial Flow 413 Hourly Standby _____ T-Out 19:45

(F) Second Final Flow 829 Mileage 104 RT 161.20
 (G) Final Shut-In 1119 Sampler _____
 (H) Final Hydrostatic 1819 Straddle _____

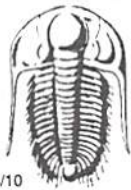
Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 20
 Initial Shut-In 400
 Final Flow 60
 Final Shut-In 90

Sub Total 1436.20
 Total 1436.20
 MP/DST Disc't _____

Approved By _____ Our Representative Jeff Brown

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.



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Test Ticket

NO. 47777

Well Name & No. Terry A 1-1 Test No. 2 Date 6-6-12
 Company Cobalt Energy LLC Elevation 2400 KB 2395 GL
 Address Po Box 8037 Wichita KS 67208
 Co. Rep / Geo. Corey Baker Rig Murfin #110
 Location: Sec. 1 Twp. 11S Rge. 25W Co. Trego State KS

Interval Tested 3775-3790 Zone Tested Lansing D
 Anchor Length 15 Drill Pipe Run 3741 Mud Wt. 9.1
 Top Packer Depth 3770 Drill Collars Run 29 Vis 58
 Bottom Packer Depth 3775 Wt. Pipe Run 0 WL 6.4
 Total Depth 3790 Chlorides 1100 ppm System LCM 2
 Blow Description FF-Strong Blow BOB IN 1 3/4 min
IS-Weak Surface Blow Back Died out IN 24 min
FF-Strong Blow BOB IN 2 min
FSI-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2139</u>	<u>USOCGWM MW</u>			<u>90</u>	<u>10</u>
<u>126</u>	<u>MW with a scum of oil</u>			<u>65</u>	<u>35</u>
<u>20</u>	<u>USOCGWM</u>	<u>5</u>	<u>2</u>	<u>33</u>	<u>60</u>
	<u>171-GIP</u>				

Rec Total 2285 BHT 122 Gravity _____ API RW 127 @ 76.7 °F Chlorides 57,000 ppm

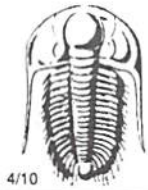
(A) Initial Hydrostatic 1877 Test 1150 T-On Location 1:20
 (B) First Initial Flow 95 Jars _____ T-Started 1:31
 (C) First Final Flow 604 Safety Joint 75 T-Open 3:12
 (D) Initial Shut-In 1150 Circ Sub _____ T-Pulled 7:12
 (E) Second Initial Flow 620 Hourly Standby _____ T-Out 9:44
 (F) Second Final Flow 1063 Mileage 161.20 Comments _____
 (G) Final Shut-In 1149 Sampler _____
 (H) Final Hydrostatic 1857 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 600 Ruined Packer _____
 Final Flow 600 Extra Copies _____
 Final Shut-In 90 Sub Total 0
 Total 1386.20
 MP/DST Disc't _____

Sub Total 1386.20

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Test Ticket

NO. 47778

Well Name & No. Terry A #1-1 Test No. 3 Date 6-6-12
 Company Cobalt Energy LLC Elevation 2400 KB 2395 GL
 Address PO Box 8037 Wichita KS 67208
 Co. Rep / Geo. Corey Baker Rig Murfin #10
 Location: Sec. 1 Twp. 11S Rge. 25W Co. _____ State KS

Interval Tested 3802-3835 Zone Tested Lansing E+F
 Anchor Length 33 Drill Pipe Run 3773 Mud Wt. 9.0
 Top Packer Depth 3797 Drill Collars Run 29 Vis 59
 Bottom Packer Depth 3802 Wt. Pipe Run 0 WL 7.8
 Total Depth 3835 Chlorides 5000 ppm System LCM 1
 Blow Description FFP Good Blow Bob IN 23 1/2 min
ISF-Dead No Blow Back
FFP-GOOD Blow Bob IN 32 min
FST-Dead No

Rec	Feet of	%gas	%oil	%water	%mud
<u>312</u>	<u>MW</u>		<u>80</u>	<u>20</u>	
<u>45</u>	<u>WM WITH OIL SPOTS</u>		<u>60</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

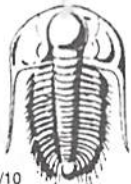
Rec Total 357 BHT 120 Gravity _____ API RW .131 @ 66.9 °F Chlorides 64,000 ppm

(A) Initial Hydrostatic 1884 Test 1150 T-On Location 16:39
 (B) First Initial Flow 29 Jars _____ T-Started 16:44
 (C) First Final Flow 95 Safety Joint 75 T-Open 18:52
 (D) Initial Shut-In 1176 Circ Sub _____ T-Pulled 22:52
 (E) Second Initial Flow 99 Hourly Standby _____ T-Out 00:44
 (F) Second Final Flow 195 Mileage 161.20 Comments _____
 (G) Final Shut-In 1146 Sampler _____
 (H) Final Hydrostatic 1885 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 90 Day Standby _____ Total 1386.20
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1386.20

Approved By _____ Our Representative Jeff Brown

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Test Ticket

NO. 47779

Well Name & No. Terry A #1-1 Test No. 4 Date 6-7-12
 Company Cobalt Energy LLC Elevation 2400 KB 2395 GL
 Address PO Box 8037 Wichita KS 67208
 Co. Rep / Geo. Cory Baker Rig Murfin #116
 Location: Sec. 1 Twp. 11S Rge. 25W Co. Trego State KS

Interval Tested 3858-3890 Zone Tested LKC-H
 Anchor Length 32 Drill Pipe Run 3837 Mud Wt. 9.0
 Top Packer Depth 3853 Drill Collars Run 29 Vis 65
 Bottom Packer Depth 3858 Wt. Pipe Run 0 WL 6.4
 Total Depth 3890 Chlorides 3400 ppm System LCM 2

Blow Description 1st Strong Blow BOB IN 2 1/2 min
2nd Good Blow Back BOB IN 11 3/4 min
3rd Strong Blow BOB IN 3 min
4th Good Blow Back BOB IN 10 min

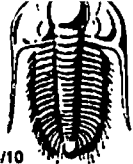
Rec	Feet of	%gas	%oil	%water	%mud
<u>1.0</u>	<u>USOC G MW</u>	<u>15</u>	<u>3</u>	<u>47</u>	<u>35</u>
<u>6.3</u>	<u>OCC G MW</u>	<u>10</u>	<u>15</u>	<u>10</u>	<u>65</u>
<u>8.95</u>	<u>Gassy oil</u>	<u>10</u>	<u>90</u>		
	<u>1512-GIP</u>				

Rec Total 1018 BHT 123 Gravity 28 API RW 109 @ 89.8 °F Chlorides 59,000 ppm

(A) Initial Hydrostatic 1925 Test 1150 T-On Location 9:25
 (B) First Initial Flow 80 Jars T-Started 9:27
 (C) First Final Flow 205 Safety Joint 75 T-Open 10:58
 (D) Initial Shut-In 1160 Circ Sub 50 T-Pulled 14:58
 (E) Second Initial Flow 226 Hourly Standby T-Out 18:17
 (F) Second Final Flow 405 Mileage 161.20 Comments
 (G) Final Shut-In 1158 Sampler
 (H) Final Hydrostatic 1941 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1436.20
 Accessibility MP/DST Disc't
 Sub Total 1436.20

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Test Ticket

NO. 47780

Well Name & No. Terry A #1-1 Test No. 5 Date 10-8-12
 Company Cobalt Energy LLC Elevation 2400 KB 2395 GL
 Address PO Box 8037 Wichita KS 67208
 Co. Rep / Geo. Corey Baker Rig Murfin #140
 Location: Sec. 1 Twp. 11s Rge. 25W Co. Trego State KS

Interval Tested 3896-3939 Zone Tested LKC-I-5
 Anchor Length 43 Drill Pipe Run 3848 Mud Wt. 9.0
 Top Packer Depth 3891 Drill Collars Run 29 Vis 65
 Bottom Packer Depth 3896 Wt. Pipe Run 0 WL 10-4
 Total Depth 3939 Chlorides 3400 ppm System LCM 2

Blow Description FP - Weak Blow BUILT TO 3/4 IN
ISL - Dead No Blow Back
FP - Dead No Blow
ISL - Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>USOCM</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 1 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1964 Test 1150 T-On Location 3:22
 (B) First Initial Flow 28 Jars _____ T-Started 3:35
 (C) First Final Flow 30 Safety Joint 75 T-Open 5:16
 (D) Initial Shut-In 120 Circ Sub _____ T-Pulled 7:46
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 9:17
 (F) Second Final Flow 30 Mileage 161.20 Comments _____
 (G) Final Shut-In 33 Sampler _____
 (H) Final Hydrostatic 1921 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 30 Extra Copies _____
 Final Shut-In 30 Sub Total 0
 Total 1386.20
 Sub Total 1386.20 MP/DST Disc't _____

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47781

Well Name & No. Terry A #1-1 Test No. Lo Date Lo-9-12
 Company Cobalt Energy LLC Elevation 2400 KB 2395 GL
 Address PO Box 8037 Wichita KS 67208
 Co. Rep / Geo. Corey Baker Rig Murfin #1Lo
 Location: Sec. 1 Twp. 11S Rge. 25W Co. Trego State KS

Interval Tested 4140-4205 Zone Tested FT SCOTT
 Anchor Length 45 Drill Pipe Run 3901 Mud Wt. 9.1
 Top Packer Depth 4155 Drill Collars Run 267 Vis 58
 Bottom Packer Depth 4140 Wt. Pipe Run 0 WL 7.2
 Total Depth 4205 Chlorides 3400 ppm System LCM 1
 Blow Description FF Weak Blow Built to 3/4 IN
Is Dead NO Blow Back
FF Dead NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Feet of mud with oil spots</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2201 Test 1250 T-On Location 3:12
 (B) First Initial Flow 40 Jars T-Started 5:24
 (C) First Final Flow 40 Safety Joint 75 T-Open 7:32
 (D) Initial Shut-In 43 Circ Sub T-Pulled 8:42
 (E) Second Initial Flow 40 Hourly Standby T-Out 10:39
 (F) Second Final Flow 40 Mileage 161.20
 (G) Final Shut-In 2114 Sampler
 (H) Final Hydrostatic 2114 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Initial Open 30
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In _____

Sub Total 1486.20

Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1486.20
 MP/DST Disc't _____

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