



Confidentiality Requested:

Yes No

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____

(e.g. xx.xxxxx)

(e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1090178

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 09, 2012

Nicholas D. Hess
Cobalt Energy LLC
115 S. BELMONT #12
PO BOX 8037
WICHITA, KS 67208

Re: ACO1
API 15-163-24025-00-00
Brobst 'A' 1-7
SE/4 Sec.07-06S-19W
Rooks County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Nicholas D. Hess



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:

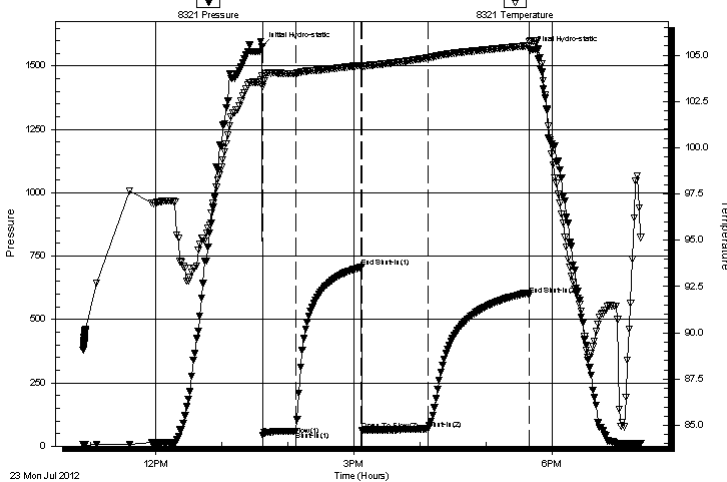
2012.07.23 @ 13:36:17

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 vs. Time



PRESSURE SUMMARY

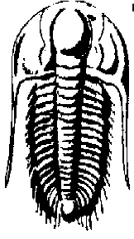
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1576.60	103.87	Initial Hydro-static
1	43.34	103.31	Open To Flow (1)
31	59.48	104.01	Shut-In(1)
90	706.48	104.45	End Shut-In(1)
91	63.36	104.29	Open To Flow (2)
151	67.84	104.85	Shut-In(2)
243	595.94	105.51	End Shut-In(2)
243	1563.07	105.72	Final Hydro-static

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

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 #: 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

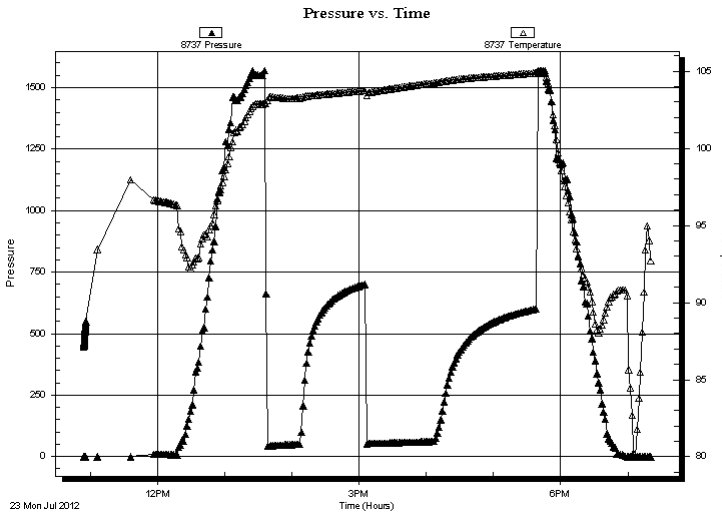
Start Time: 10:53:53 End Time: 19:20:22

Time On Btm:

Time Off Btm:

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

PRESSURE SUMMARY



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

Recovery

Gas Rates

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
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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 in³

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

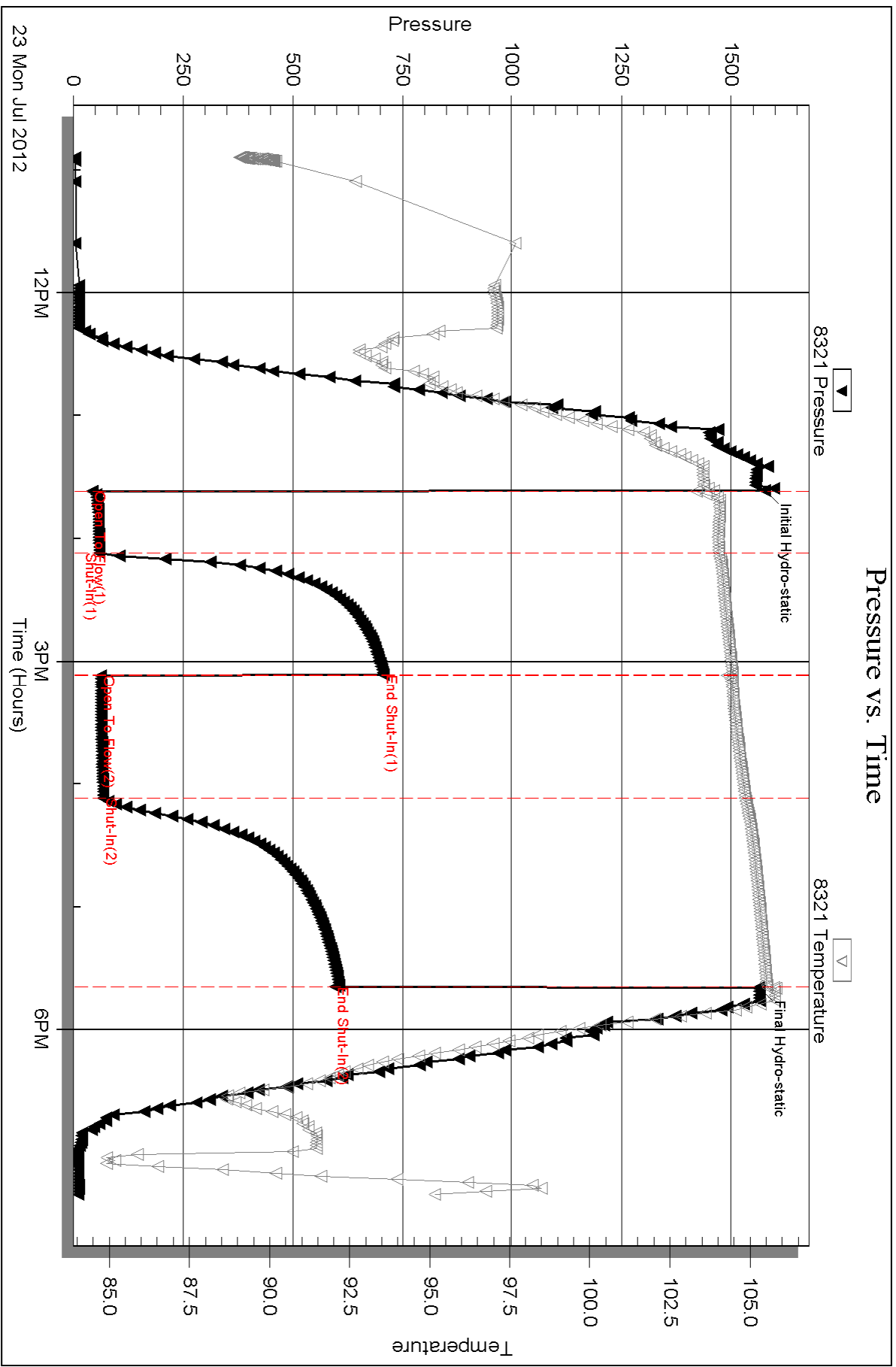
Num Gas Bombs: 0

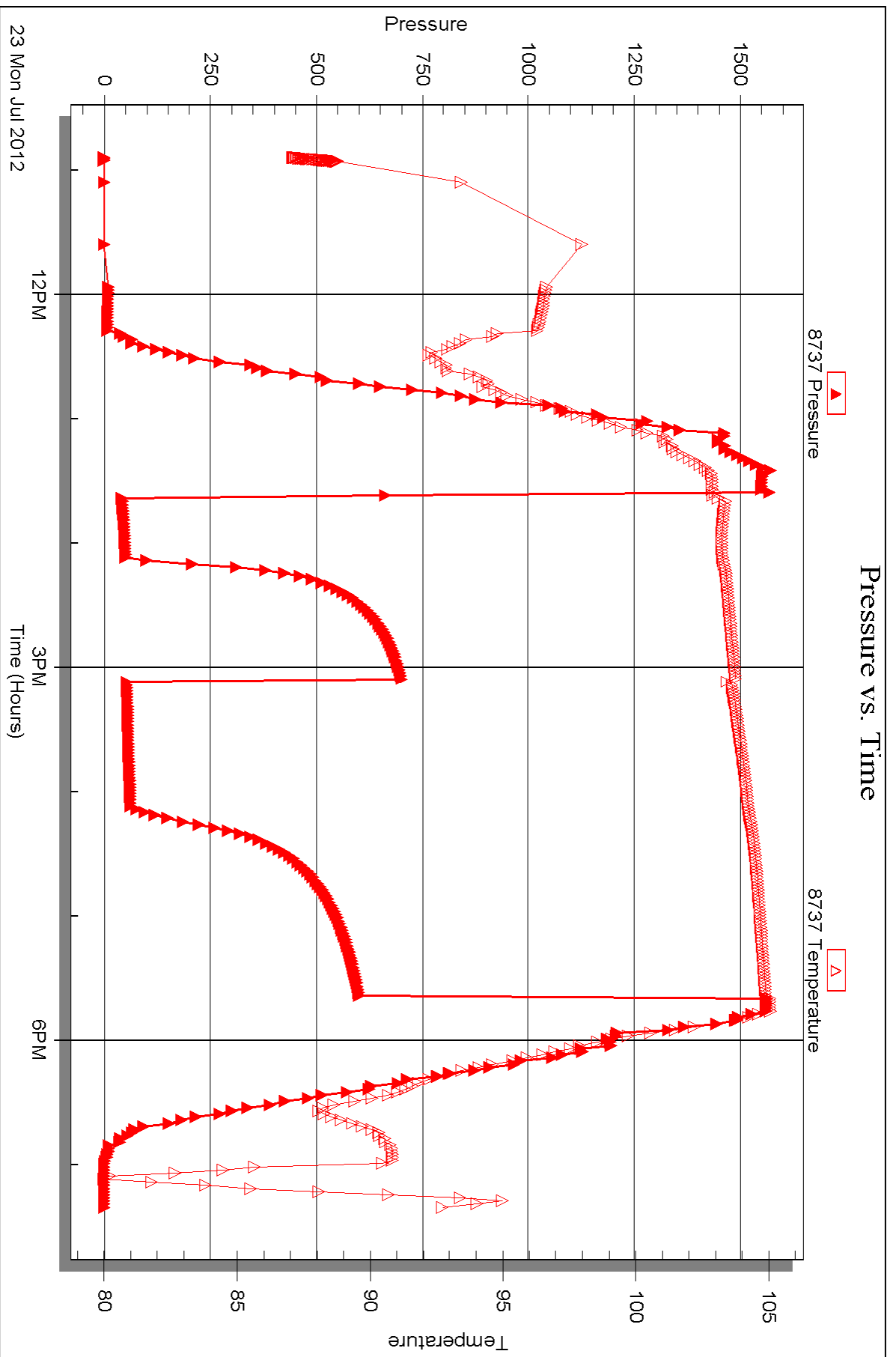
Serial #:

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:

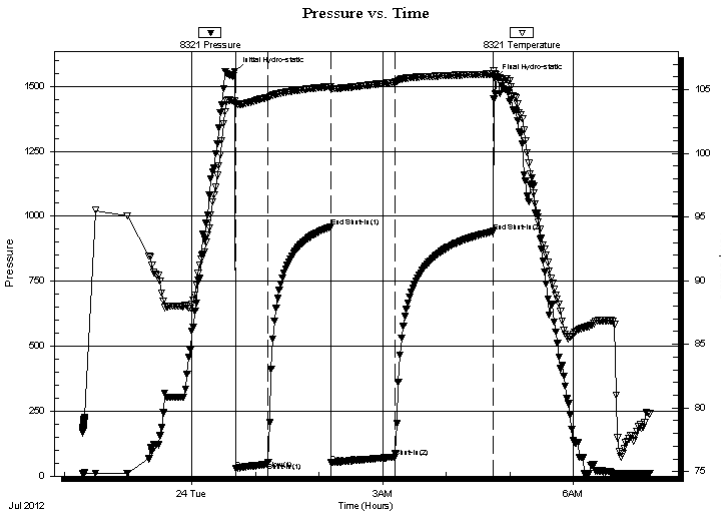
2012.07.24 @ 00:40:45

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

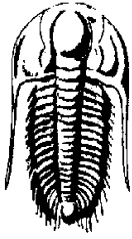
Recovery

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

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 #: 8679 Below (Straddle)

Press @ Run Depth: psig @ 3232.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.23

End Date:

2012.07.24

Last Calib.:

2012.07.24

Start Time: 22:16:07

End Time:

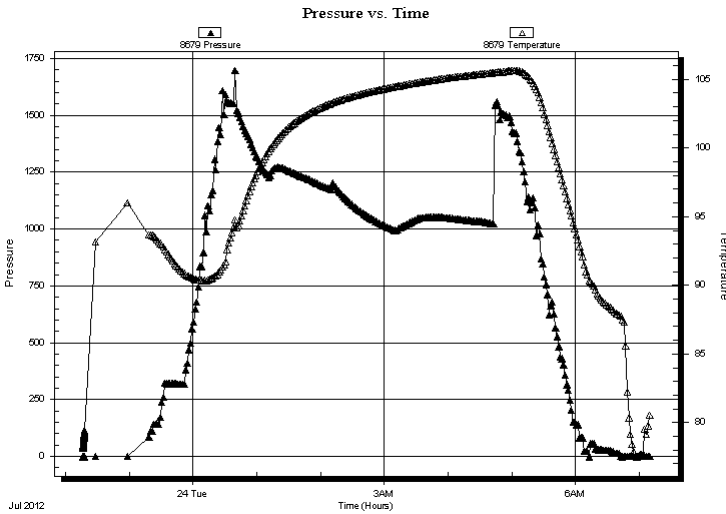
07:10:36

Time On Btm:

Time Off Btm:

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

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

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 #: 8737 Outside

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

Capacity: 8000.00 psig

Start Date: 2012.07.23 End Date: 2012.07.24

Last Calib.: 2012.07.24

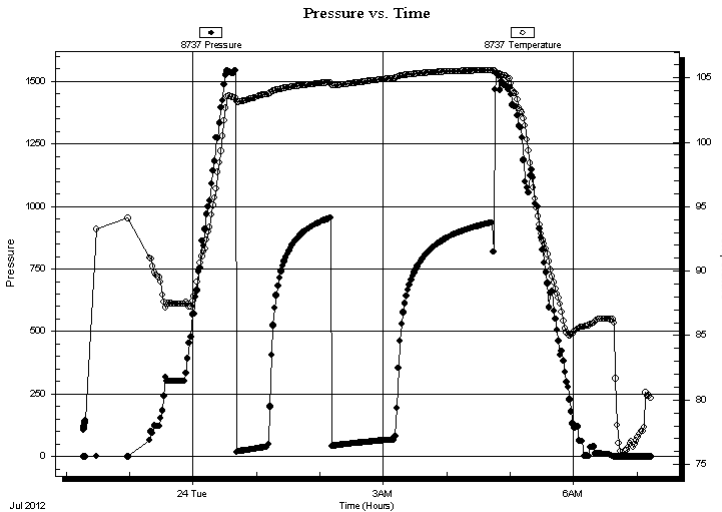
Start Time: 22:16:28 End Time: 07:12:57

Time On Btm:

Time Off Btm:

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

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
Total Tool Length:	111.00				



**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: 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 in³

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

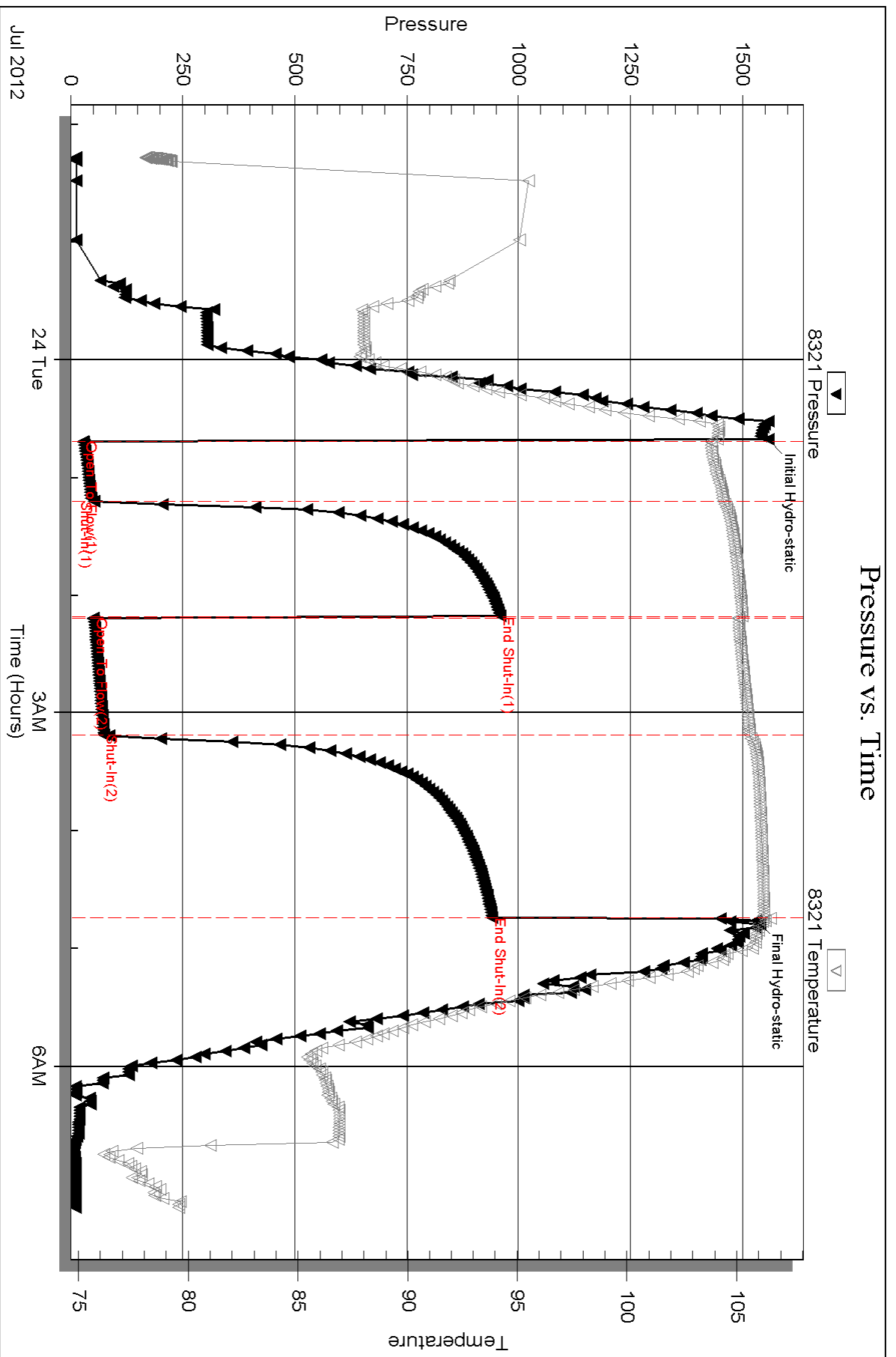
Num Gas Bombs: 0

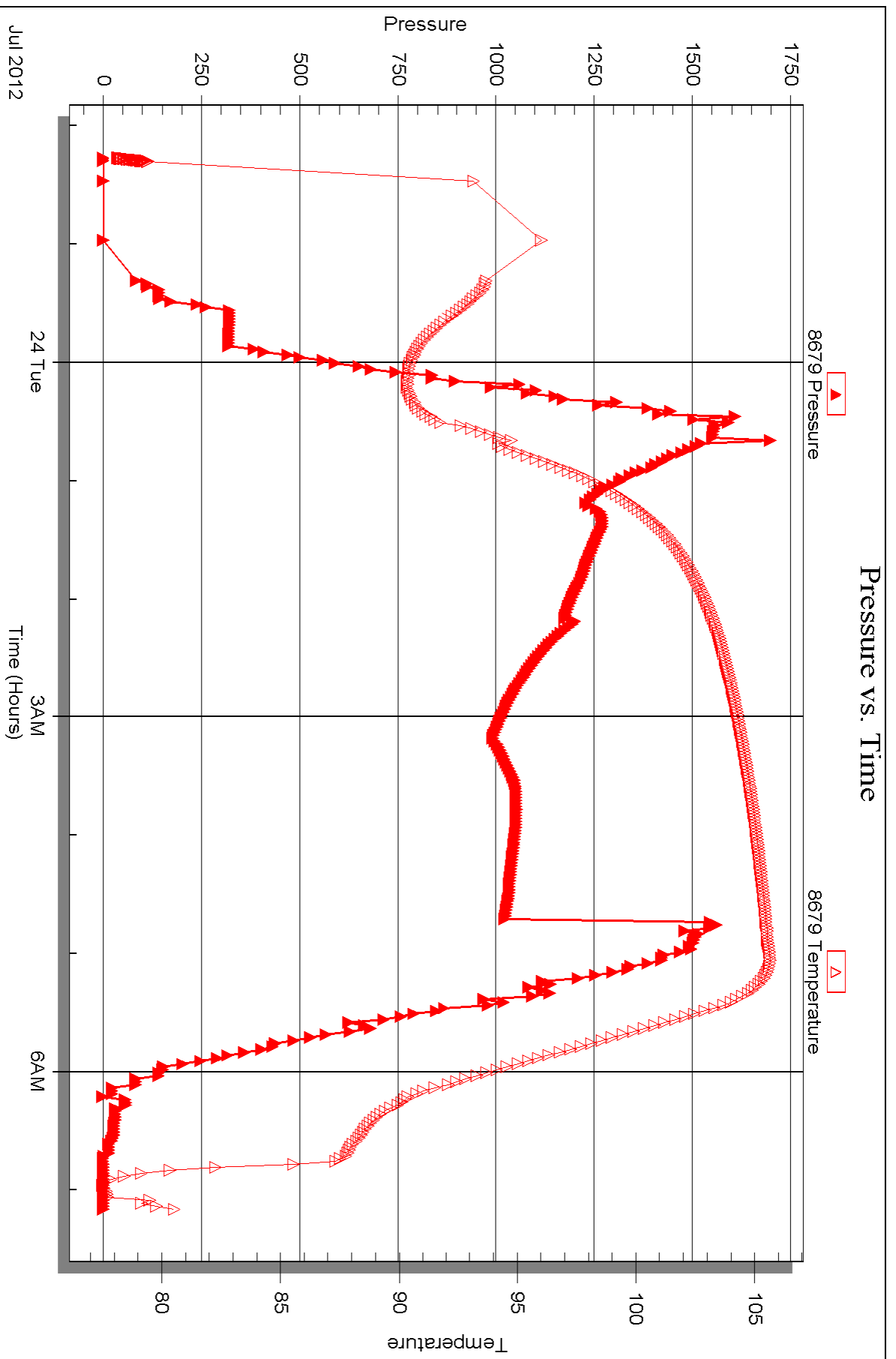
Serial #:

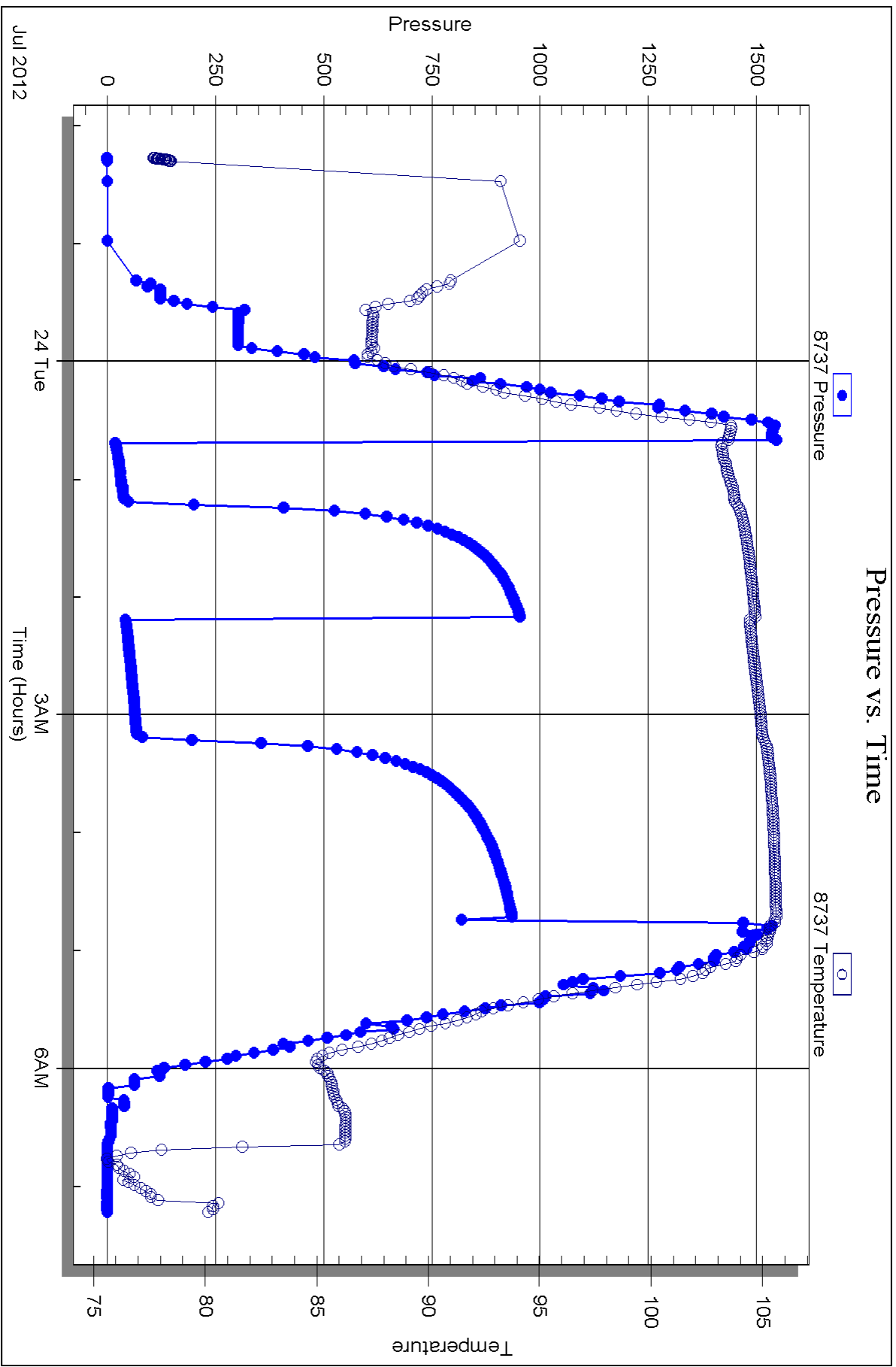
Laboratory Name:

Laboratory Location:

Recovery Comments:









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

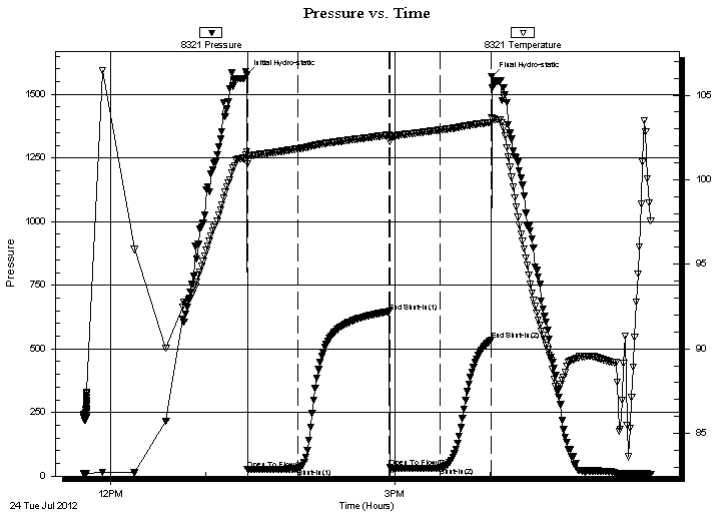
TEST COMMENT: IFP=Weak blow built to 1/2"

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

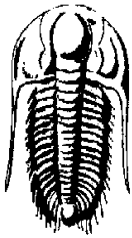
Recovery

Gas Rates

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

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

* Recovery from multiple tests



**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 #: 8737 Outside

Press @ Run Depth: 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: 11:43:57

End Time:

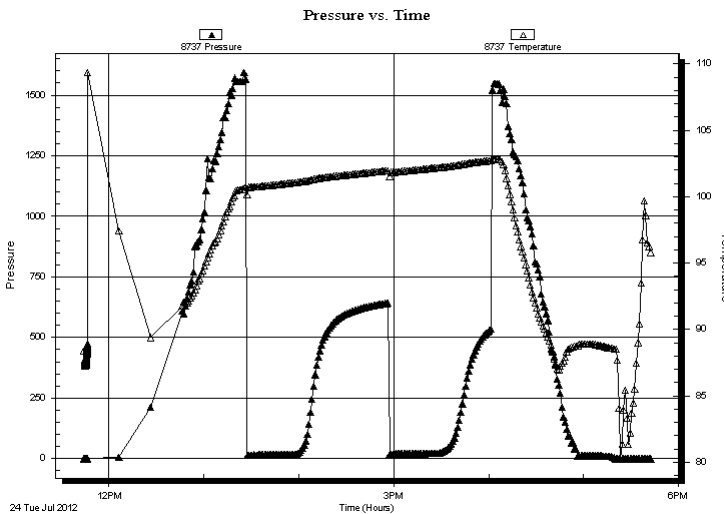
17:42:19

Time On Btm:

Time Off Btm:

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

Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 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 in³

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

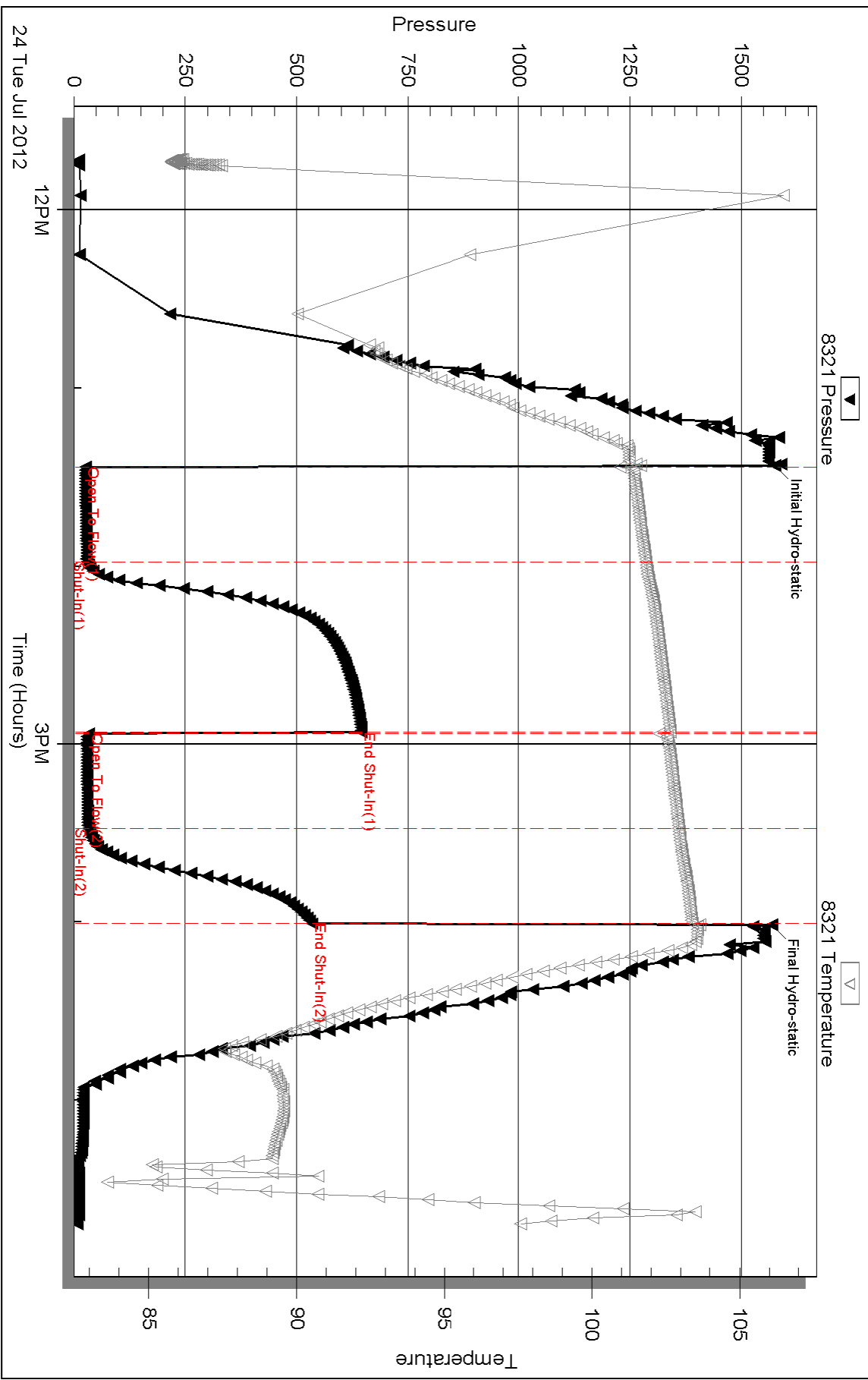
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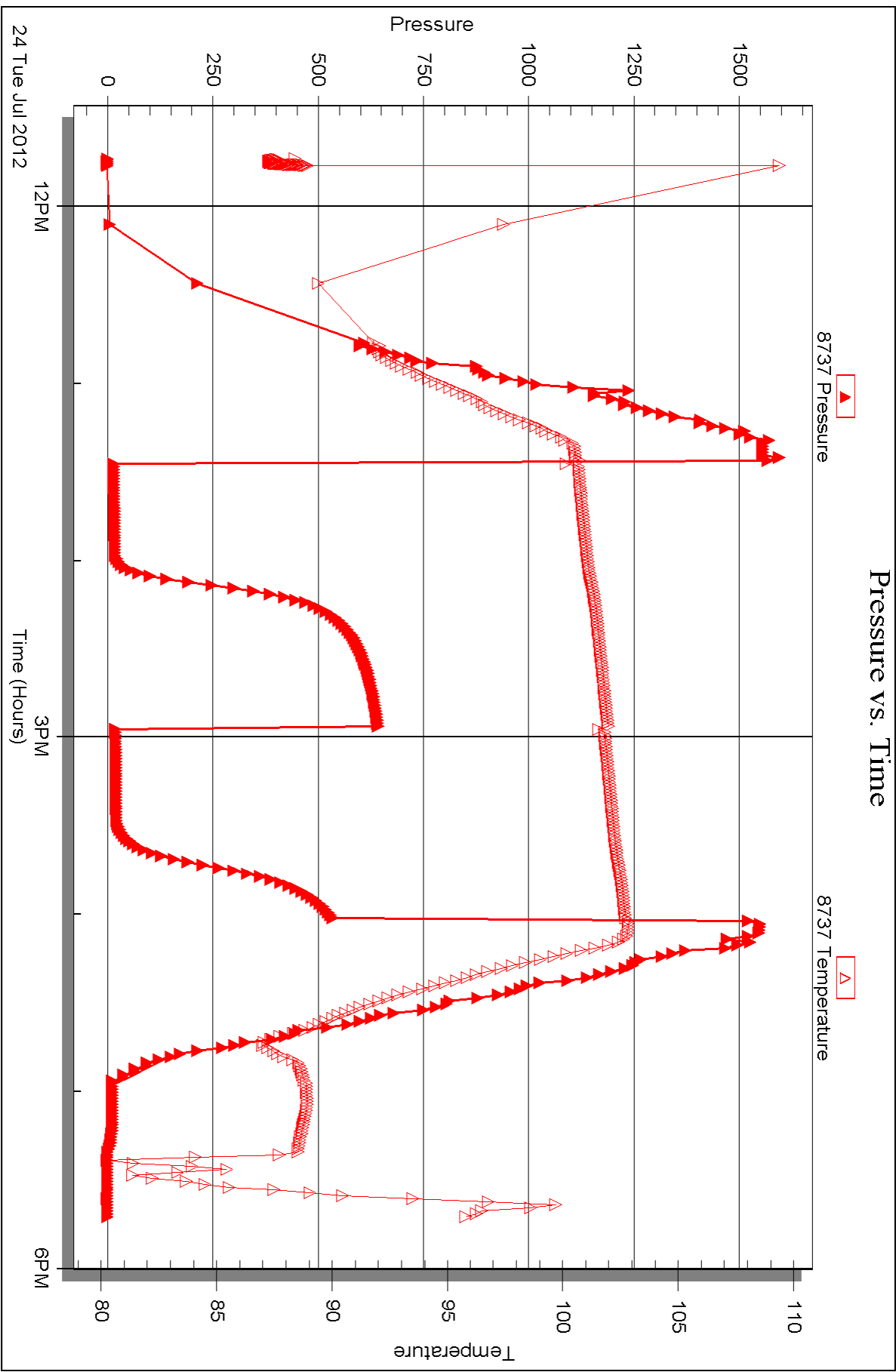
Laboratory Name:

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

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 @ Run Depth: 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:

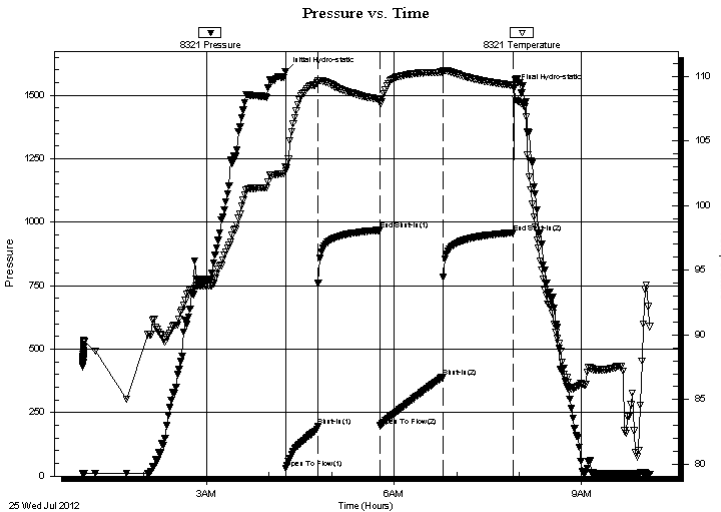
2012.07.25 @ 04:15:40

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

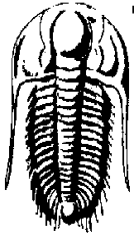
Recovery

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

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 #: **8737** Outside

Press @ RunDepth: psig @ 3299.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.25 End Date: 2012.07.25

Last Calib.: 2012.07.25

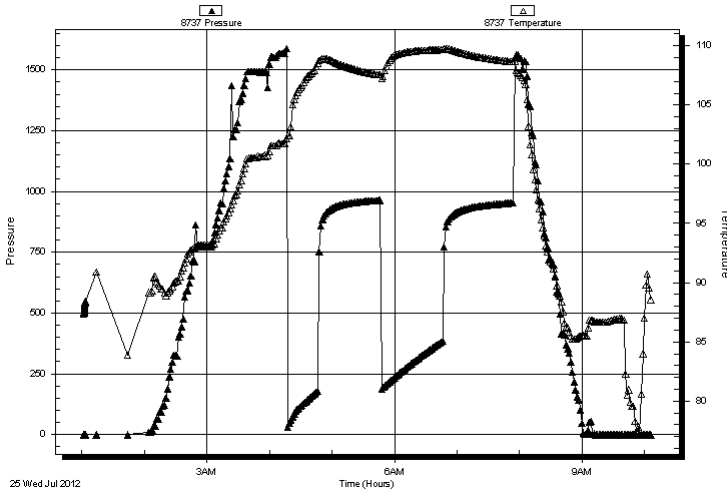
Start Time: 01:01:37 End Time: 10:06:36

Time On Btm:

Time Off Btm:

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 vs. Time



PRESSURE SUMMARY

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

Recovery

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

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: 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	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 in³

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

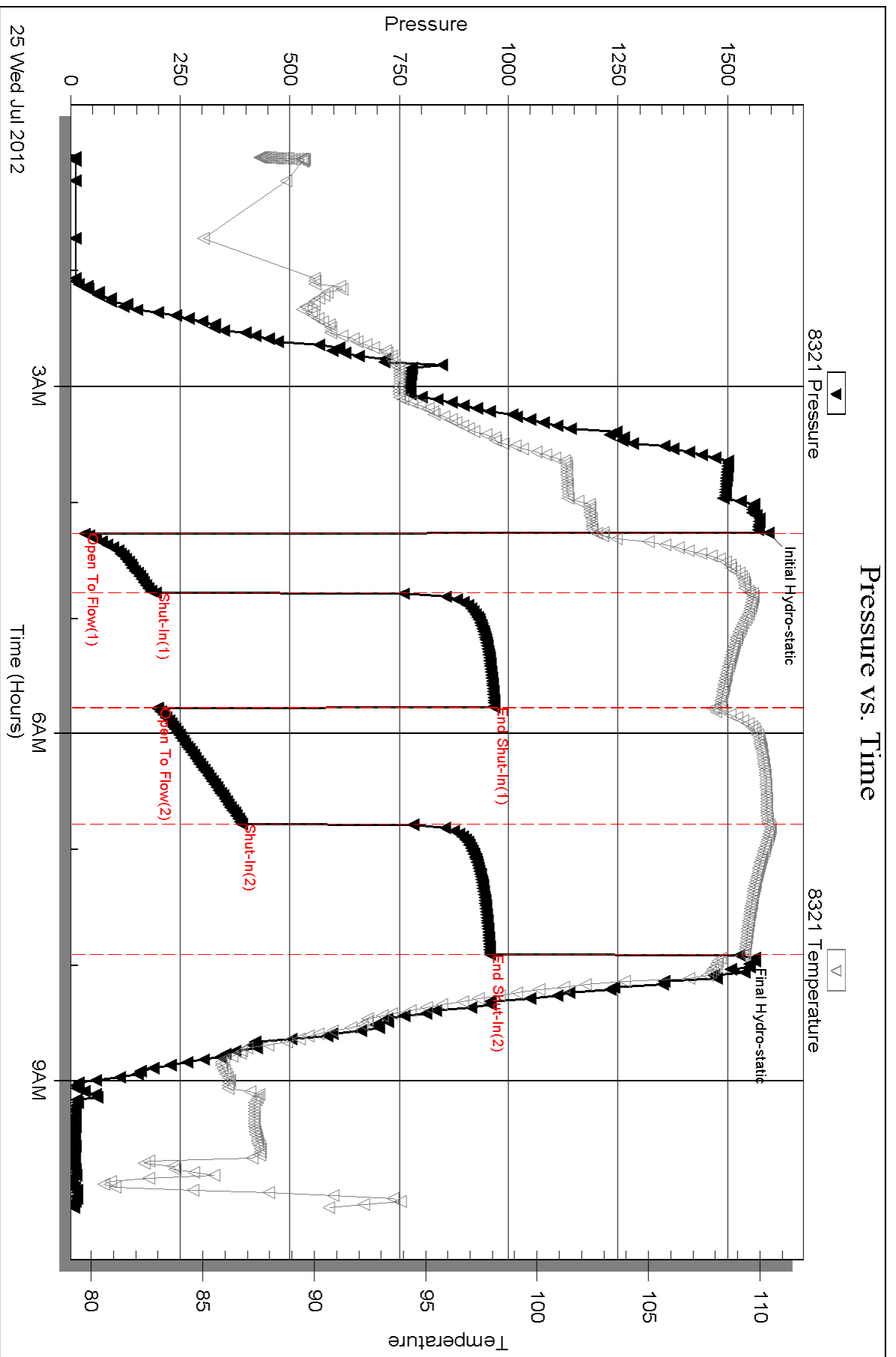
Num Gas Bombs: 0

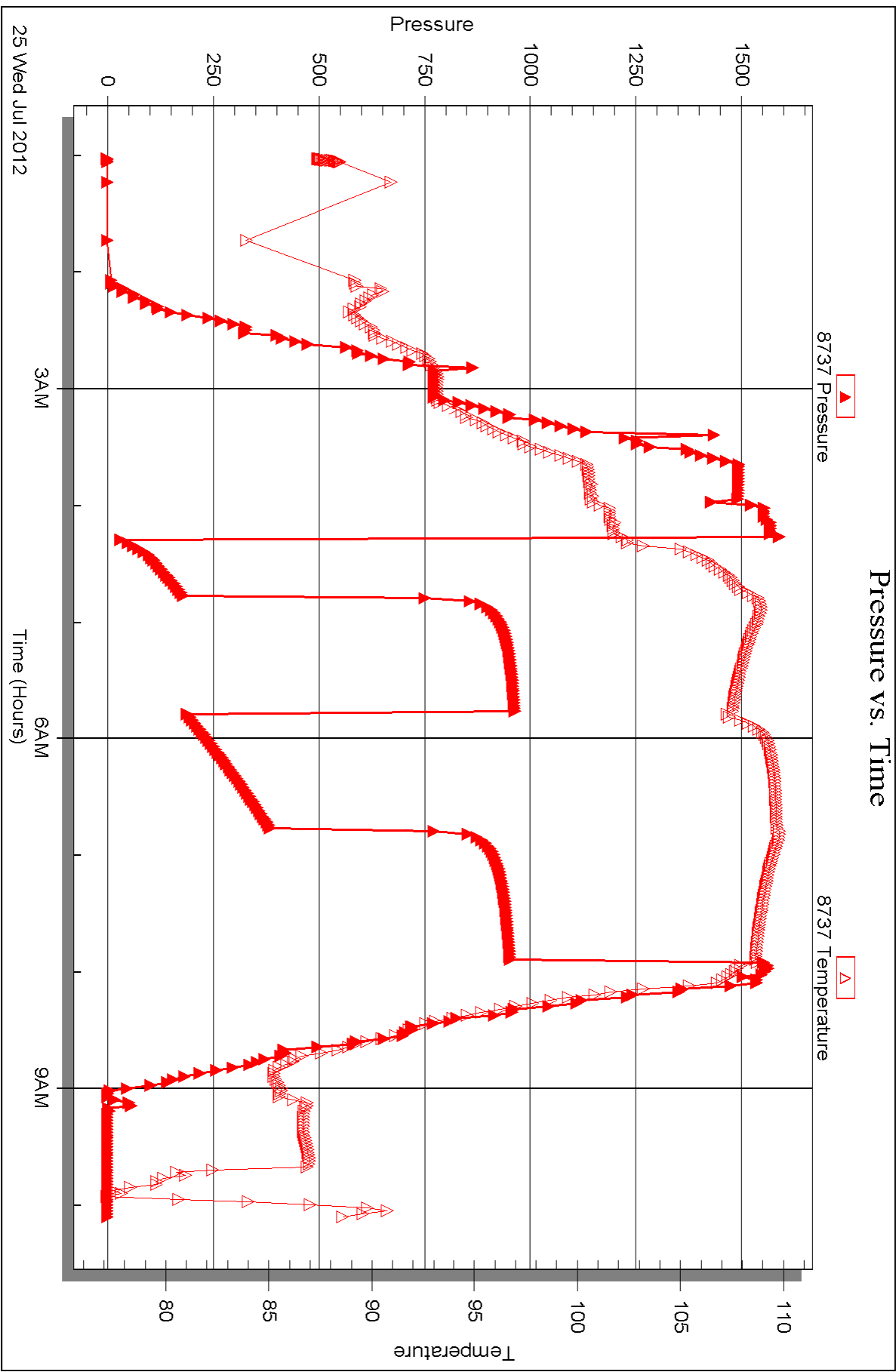
Serial #:

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

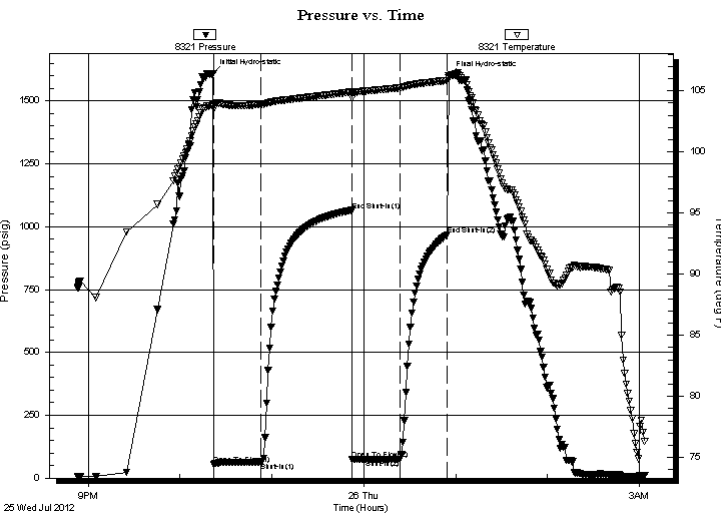
Time On Btm:

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 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

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 #: **8737** Outside

Press @ Run Depth: 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: 20:54:00

End Time:

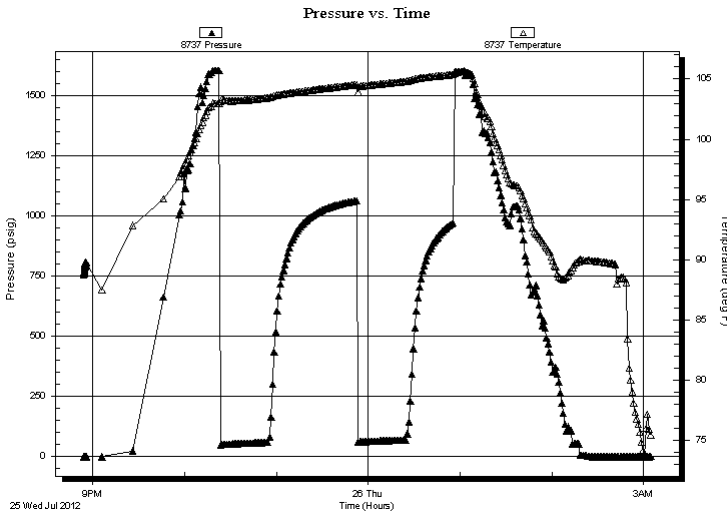
03:04:59

Time On Btm:

Time Off Btm:

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

Recovery

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

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: 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 in³

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 w ith a scum of oil	0.423

Total Length: 86.00 ft Total Volume: 0.423 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

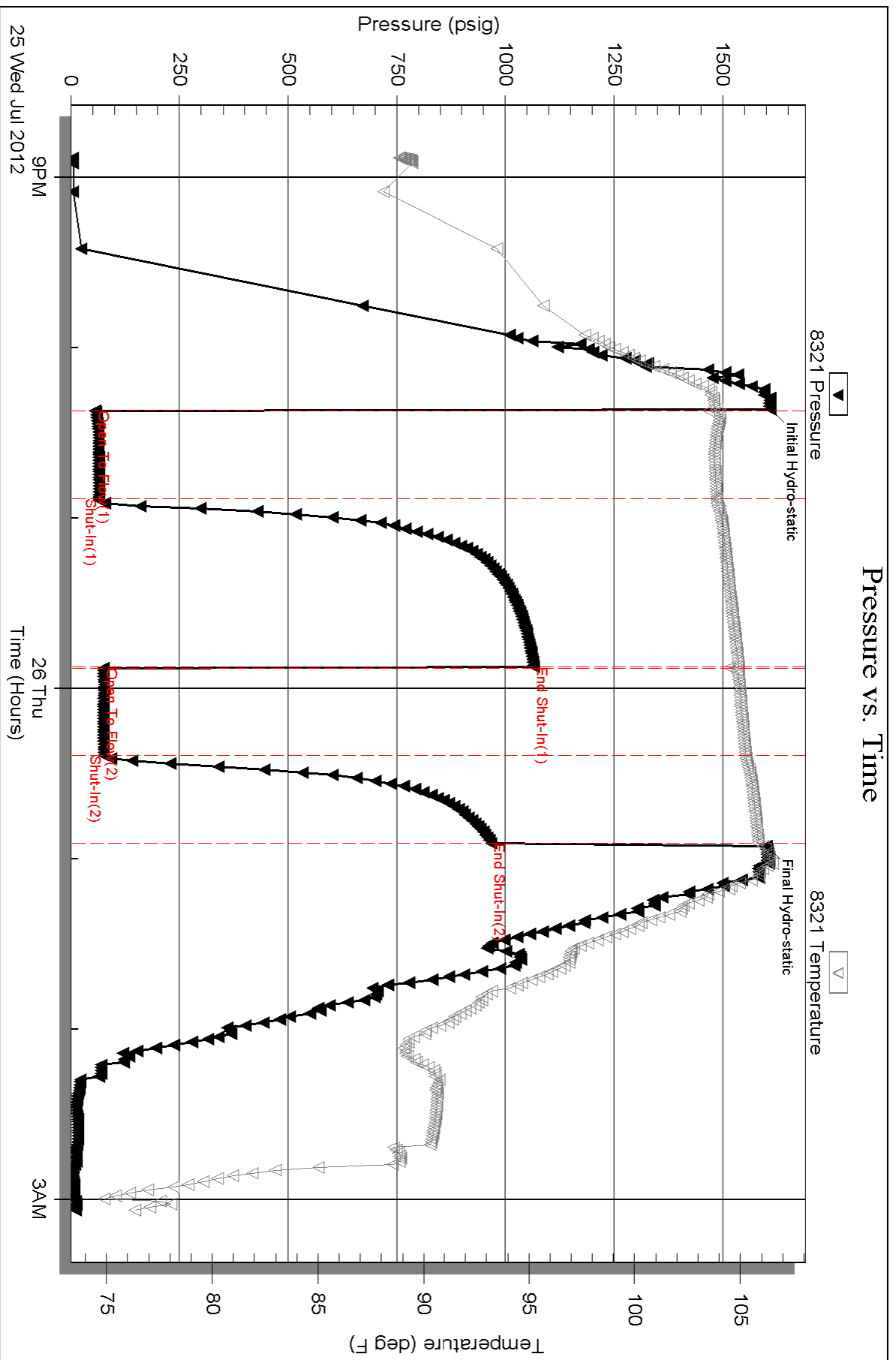
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

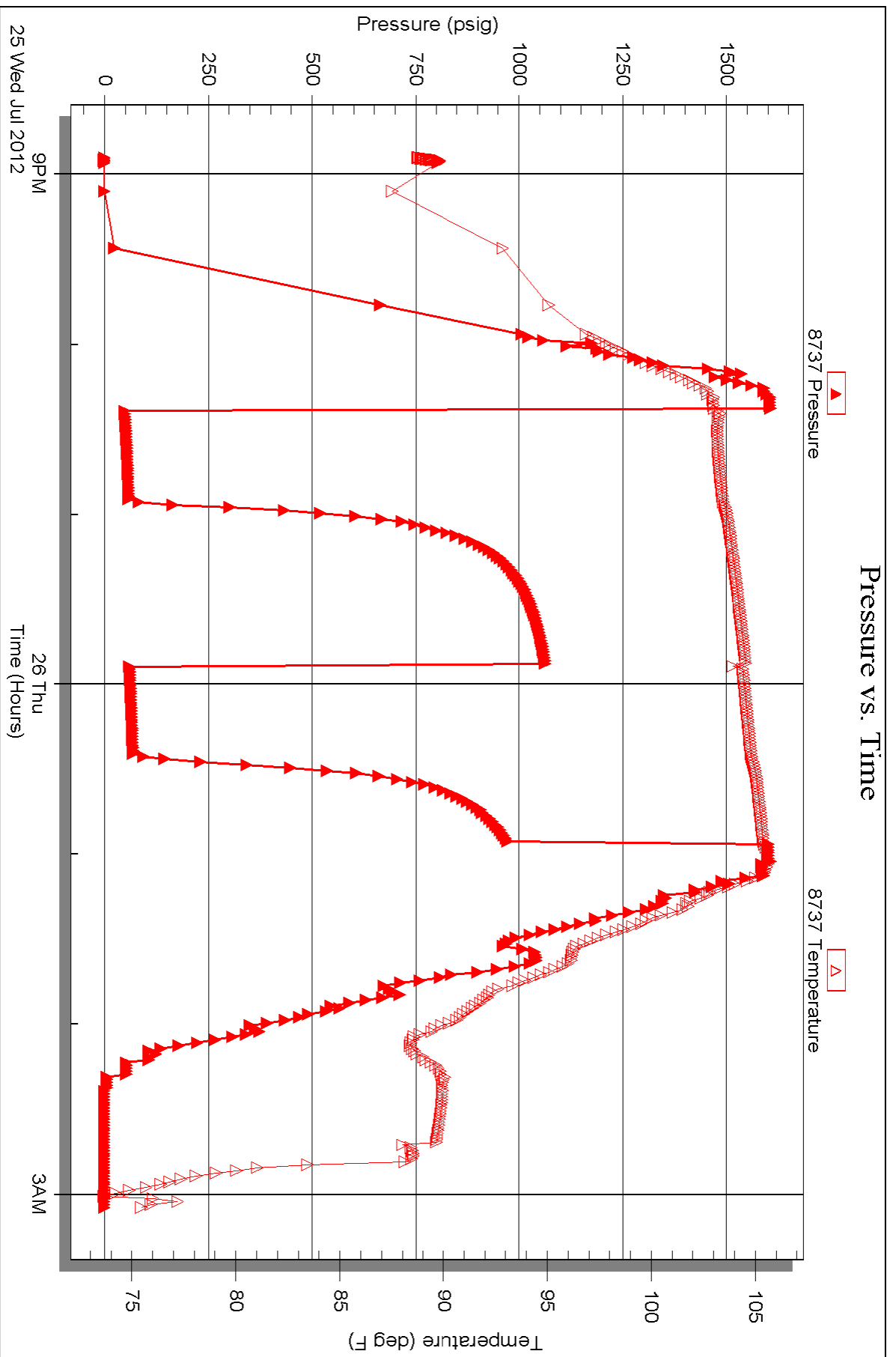


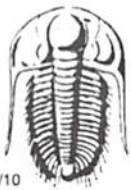
Serial #: 8737

Outside Cobalt Energy LLC

Lee A #1-12

DST Test Number: 5





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

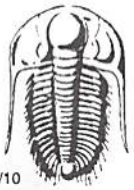
Rec Total 72 BHT 1040 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(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 63 Hourly Standby T-Out 19:20
 (F) Second Final Flow 68 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 60 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder _____ Extra Copies _____
 Final Shut-In 90 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1488.50
 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. 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 Wighita 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 _____

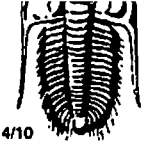
Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 30

Sub Total 1488.50

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. 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>

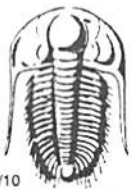
Rec Total 809 BHT 109 Gravity _____ API RW .117 @ 93.2 °F Chlorides 51000 ppm

(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 Comments _____
 (G) Final Shut-In 968 Sampler _____
 (H) Final Hydrostatic 1400 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

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

Approved By _____ Our Representative Jeff Brown

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Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Cobalt Energy LLC**

LEASE **Brobst "A" #1-7**

FIELD **Wildcat**

LOCATION **660' Isl & 660' Isl**

SEC **7** TWP **6 S** RGE **19W**

COUNTY **Rooks** STATE **Kansas**

CONTRACTOR **Val Energy Inc. Rig #3**

SPUD **7/30/2012** COMP **8/7/2012**

RTD **3630'** LTD **3629'**

MUD UP **2827'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3100** TO **TD**

DRILLING TIME KEPT FROM **3100** TO **TD**

SAMPLES EXAMINED FROM **3100** TO **TD**

GEOLOGICAL SUPERVISION FROM **3185'**

GEOLOGIST ON WELL **Robert D. Hendrix**

ELEVATIONS **KB 2107'**

DF **DF**

GL **2117'**

Measurements Are All From **Kelly Bushing**

CASING

CONDUCTOR SURFACE **8.58" at 397'**

PRODUCTION **None**

ELECTRICAL SURVEYS

Induction/Neutron

Tucker Energy Systems

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Anhydrite **1682 (+435)** **1701 (+416)**

Base Anhydrite **1712 (+405)** **3295 (+1178)**

Heebner Sh. **3292 (-1175)** **3331 (-1214)**

Lansing **3330 (-1213)** **3515 (-1398)**

Stark Sh. **3508 (-1391)** **3550 (-1433)**

BKC **3547 (-1428)** **3605 (-1489)**

Granite **3605 (-1488)** **3606 (-1489)**

AP# 15-163-24025

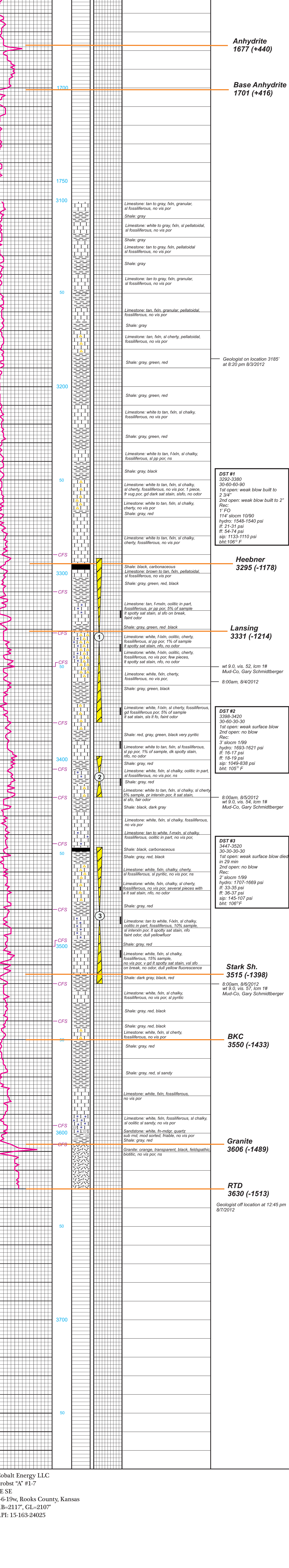
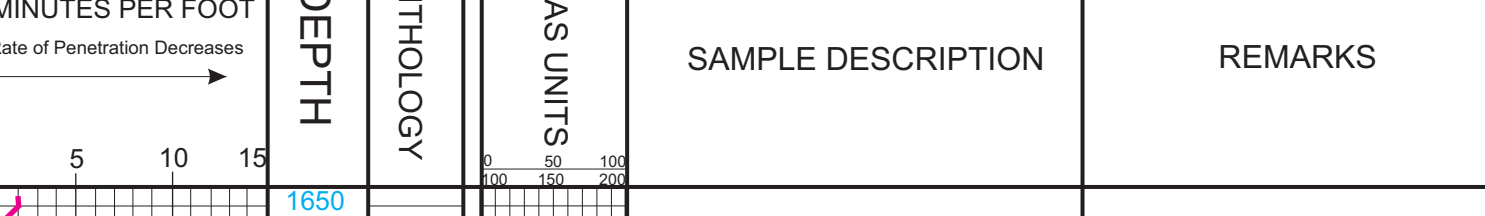
REMARKS:

All pertinent shows were tested and after further log examination the decision was made to plug and abandon this hole.

Respectfully Submitted

Robert D Hendrix

LEGEND



DST #1
3292-3380
30-60-60-90
1st open: weak blow built to 2 3/4"
2nd open: weak blow built to 2"
Rec: 1' FO
114' slocm 10/90
hydro: 1548-1540 psi
lf: 21-31 psi
ff: 54-74 psi
sip: 1133-1110 psi
bht: 106° F

DST #2
3398-3420
30-60-30-30
1st open: weak surface blow
2nd open: no blow
Rec: 3' slocm 1/99
hydro: 1693-1621 psi
lf: 16-17 psi
ff: 18-19 psi
sip: 1049-838 psi
bht: 105° F

DST #3
3447-3520
30-30-30-30
1st open: weak surface blow died in 29 min
2nd open: no blow
Rec: 2' slocm 1/99
hydro: 1707-1669 psi
lf: 33-35 psi
ff: 36-37 psi
sip: 145-107 psi
bht: 106° F



CONSOLIDATED
Oil Well Services, LLC

S

TICKET NUMBER 37010
LOCATION Ogden, UT
FOREMAN Miles Shaw

FIELD TICKET & TREATMENT REPORT

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

Brobst "A" #1-7 **CEMENT** US

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-30-14	2180	Brobst "A" #1-7	7	6S	19W	Roos
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Colbalt			450 7118	Robby S		
MAILING ADDRESS			452 7129	Sorry Y		
CITY						
STATE						
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 400' CASING SIZE & WEIGHT 8 5/8 23#
 CASING DEPTH 325.15 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 17 1/2 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on Val #3 Circulate casing Mix 250 slurry
Common 38 Calcium 26 gal. Released plug displace 17 1/2 bbls water & shut
in cement did circulate Approx 6 bbls to pit

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085.00	1085.00
5406	55	MILEAGE	5.00	275.00
5467	11.75	Ten mileage delivery	1.67	1079.65
11048	250 525	250 slurry Common Class A	17.65	4412.50
1118B	470	Bentonite Gel	.25	117.50
1102	705	Calcium Chloride	.89	627.45
4432	1	8 5/8 wooden plug	96.00	96.00
			Subtotal	7693.10
			less 108 bbl cement	769.32
			Subtotal	6923.78
			SALES TAX	297.87
			ESTIMATED TOTAL	7221.65

Completed

Ravin 3737

AUTHORIZATION _____ TITLE Breg Dawson DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

251713



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 37094
LOCATION Oakley KS
FOREMAN Miles Shaw

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-9-12	2180	Brubst "A" #1-7	7	6S	19W	Reels
CUSTOMER <u>Culbalt</u>			Mico doming E to Rd 8-8N			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			463	Cory D		
STATE			460	Cody R		
ZIP CODE						

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 1700' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and rig up on Val Rig #3 plugs as ordered
1st 25 SKs @ 1700'
2nd 100 SKs @ 1007'
3rd 40 SKs @ 445'
Top 10 SKs @ 40' 200 SKs 60/40 per 48 gal 1/4" Flo seal
BH 30 SKs
MH 15 SKs

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N		PUMP CHARGE	1325. ⁰⁰	1325. ⁰⁰
5406	55	MILEAGE	5. ⁰⁰	275. ⁰⁰
5407	9.46	Ten mileage delivery	1.67	868.90
1131	200 SKs	60/40 per cement mix	15.10	3322. ⁰⁰
118B	756 #	Bentonite gel	.25	189. ⁰⁰
1167	#55	Flo seal	2.82	155.10
4432	1	8 5/8 wooden plug	96. ⁰⁰	96. ⁰⁰
			Subtotal	6231. ⁰⁰
			loss 10% discount	623.10
			Subtotal	5607.90
			SALES TAX	213.32
			ESTIMATED TOTAL	5821.22

completed

AUTHORIZATION [Signature] TITLE _____ DATE _____

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251826