



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1087261  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

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: \_\_\_\_\_

1087261

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Terry 'A' 1-1
Doc ID	1087261

All Electric Logs Run

Dual-Induction
Neutron-Density
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Terry 'A' 1-1
Doc ID	1087261

Tops

Name	Top	Datum
Anhydrite	2027	373
Heebner	3702	-1302
Lansing	3737	-1337
Muncie Creek	3866	-1466
Stark	3938	-1538
BKC	3981	-1581
Pawnee	4108	-1708
Ft Scott	4178	-1778

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 12, 2012

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

Re: ACO1  
API 15-195-22778-00-00  
Terry 'A' 1-1  
NW/4 Sec.01-11S-25W  
Trego 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,



DIGITAL LOG

(785) 625-3858

Computer Processed Interpretation

15-195-22778-00-00

API No.

Company Cobalt Energy, LLC

Well Terry 'A' #1-1

Field Wildcat

County Trego State Kansas

Location

NW - SW - SE - MW  
2210' FNL & 1570' FWL

Other Services  
DIL/CNL/CDL  
BHCS/MEL

Sec: 1 Twp: 11 S Rge: 25 W

Permanent Datum

Ground Level

Elevation 2395

Log Measured From

Kelly Bushing 5 Ft. Above Perm. Datum

K.B. 2400

Drilling Measured From

Fronkelly Bushing

D.F. 2395

Date Recorded

6/9/2012

Depth Logger

4204

Curve Definitions

SW Water Saturation

SXO Water Saturation In The Flushed Zone

VCL Volume Of Clay

PHIE Density - Neutron Crossplot Shale Corrected

BWV Bulk Volume Water

BWMSXO Bulk Volume Water In Flushed Zone

DCAL Caliper

SPC SP Corrected For Baseline

DGA Apparent Grain Density

Payflag If PHIE > 2 %, VCL < 40 %, SPC > -10 , SW < 50 % & DCAL < 11

Recorded By

B. Becker

Witnessed By

Corey Baker

Analysis By

T. Martin

<<< Fold Here >>>

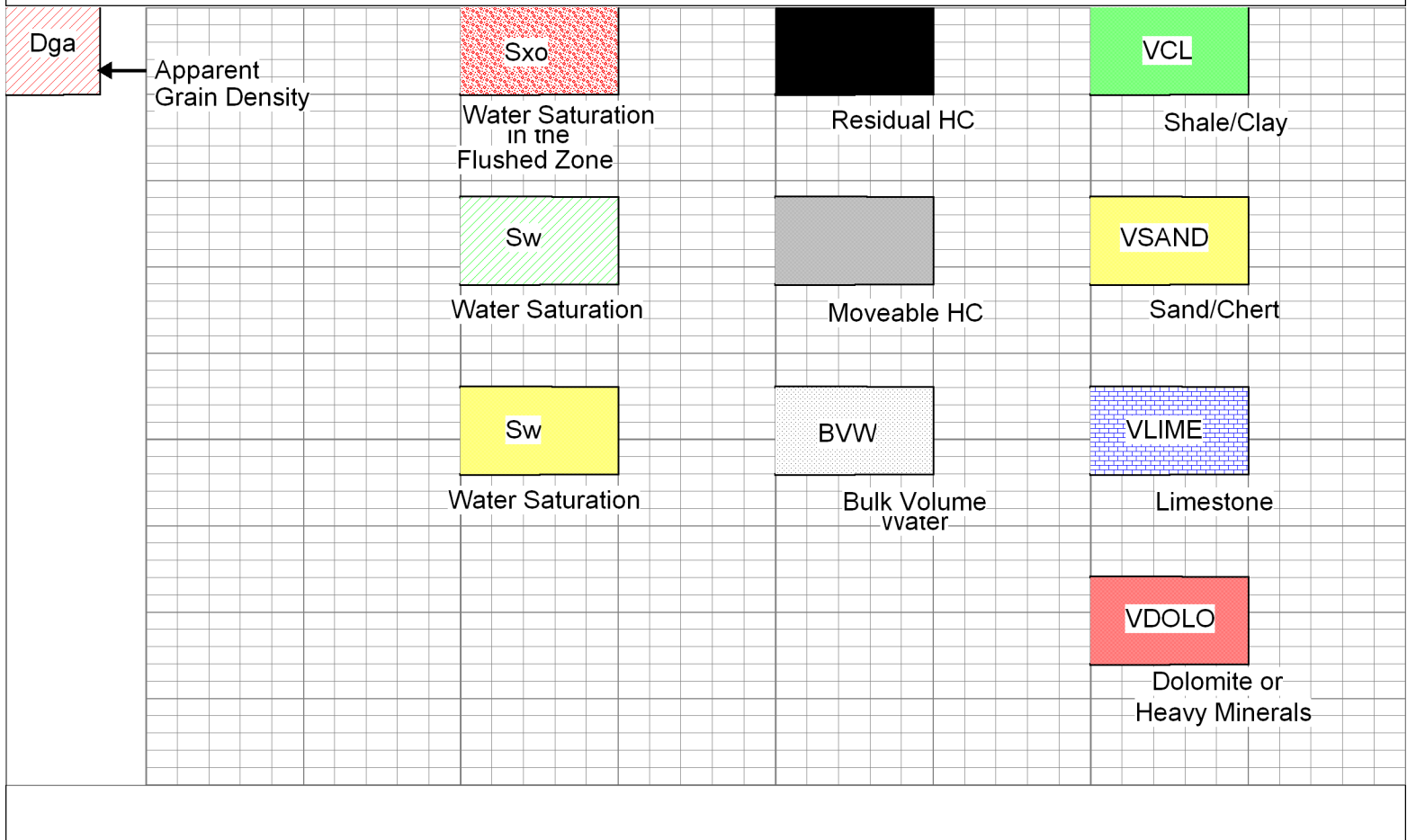
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Thank you for using Log-Tech, Inc.  
www.logtechinc.com

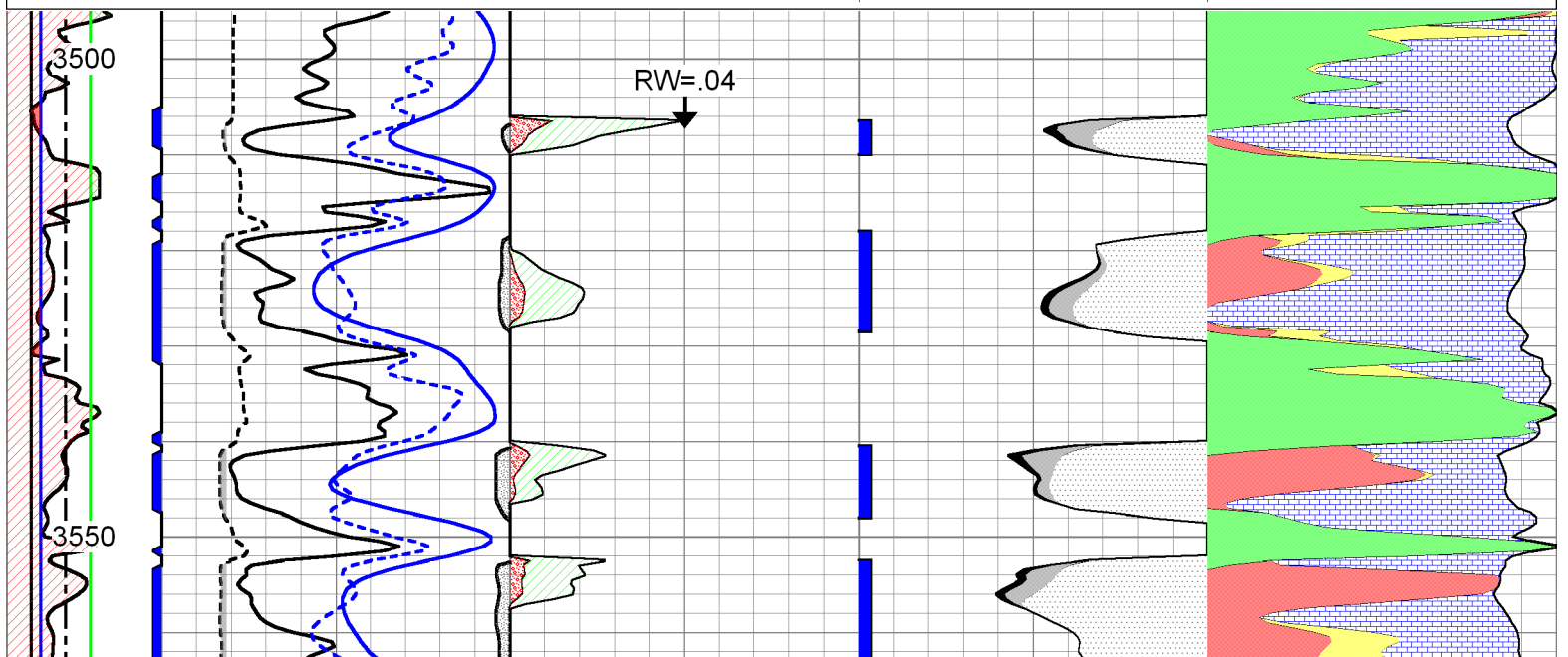
WaKeeney, Ks  
West on I-70 to Voda Rd Exit; 2 North;  
1 West; 5 North; 1 West; 3/4 North;  
East into

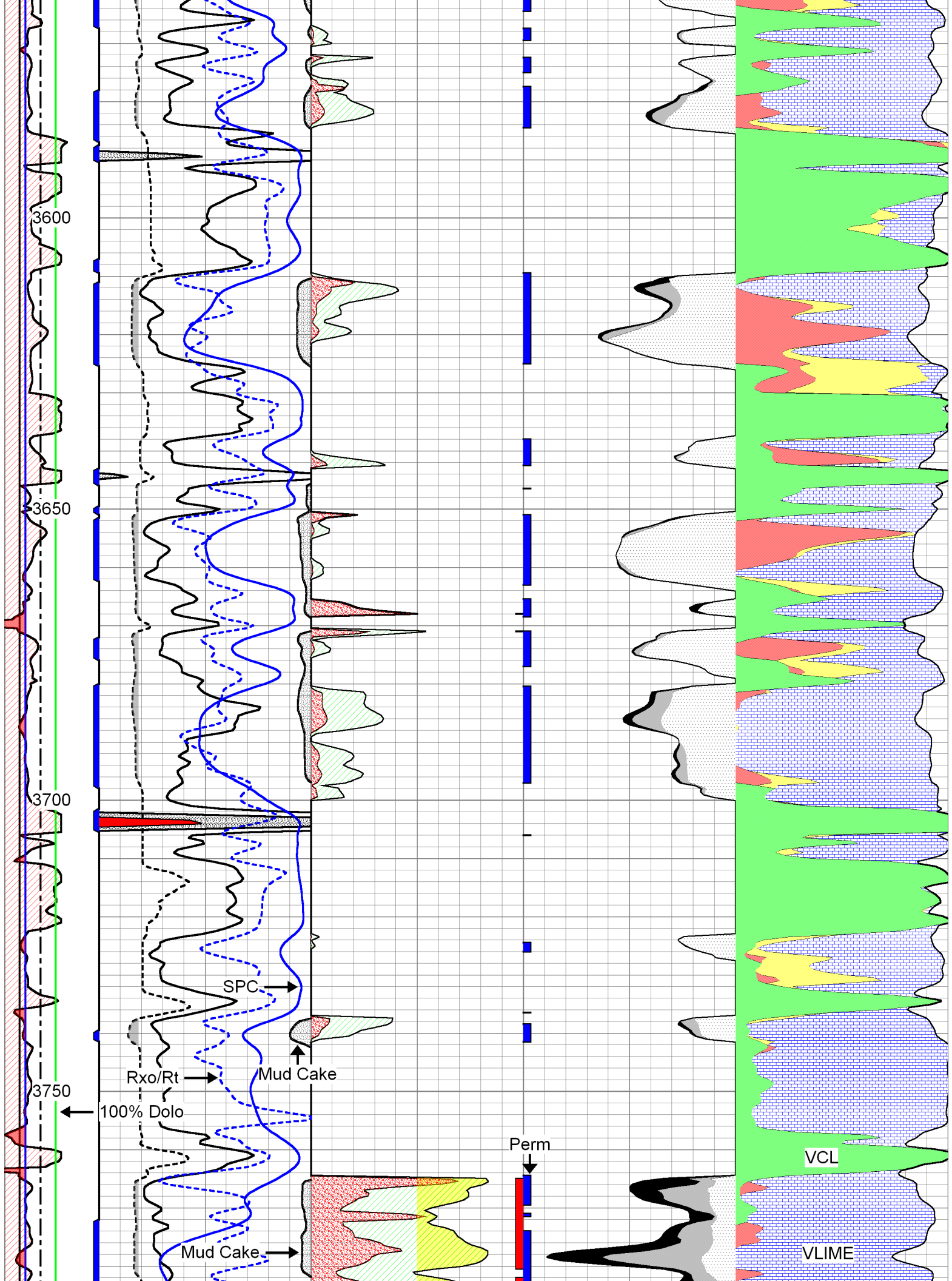
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Presentation Format: 3wxplt  
Dataset Creation: Wed May 14 10:04:54 1997  
Charted by: Depth in Feet scaled 1:240



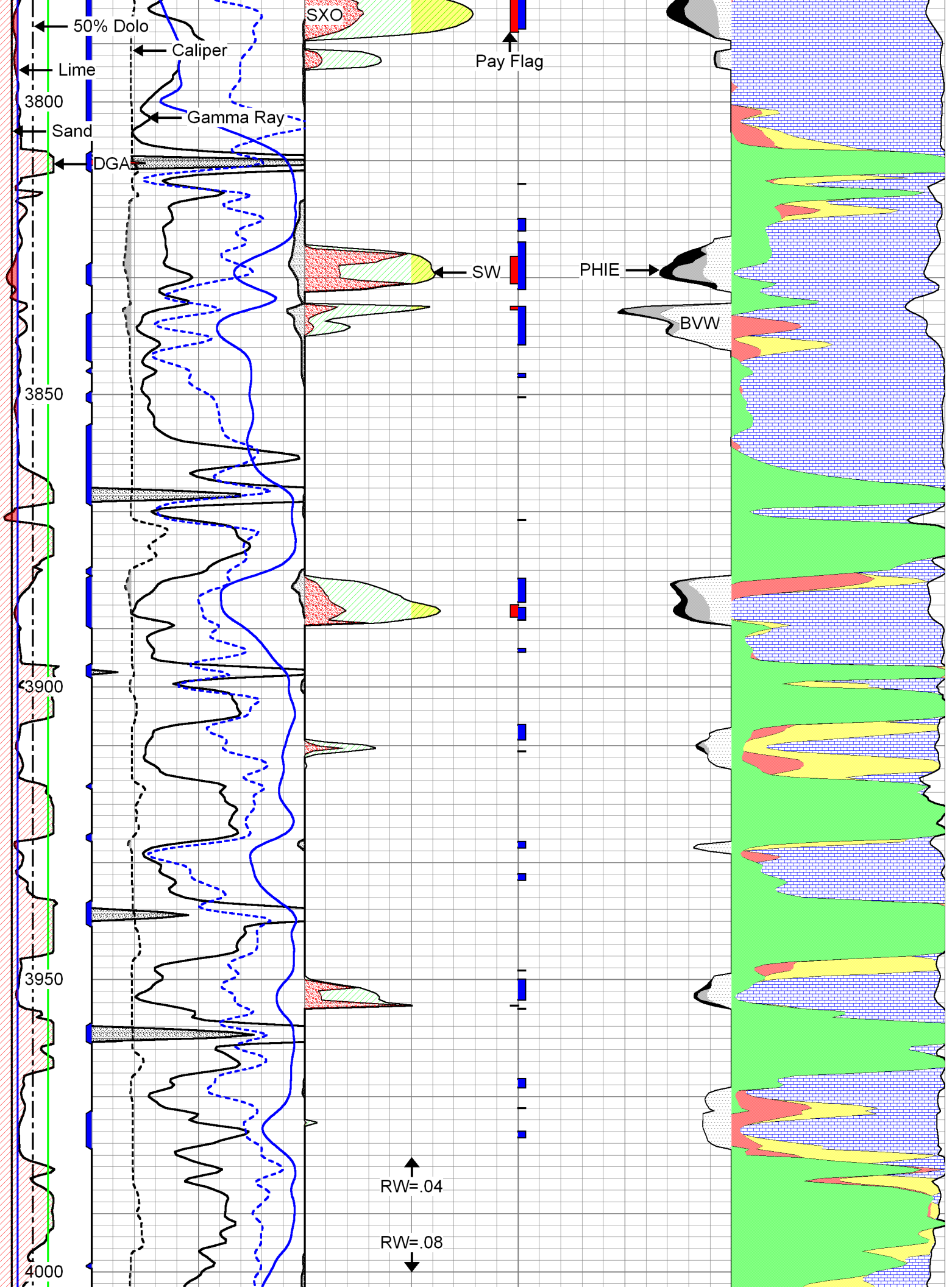
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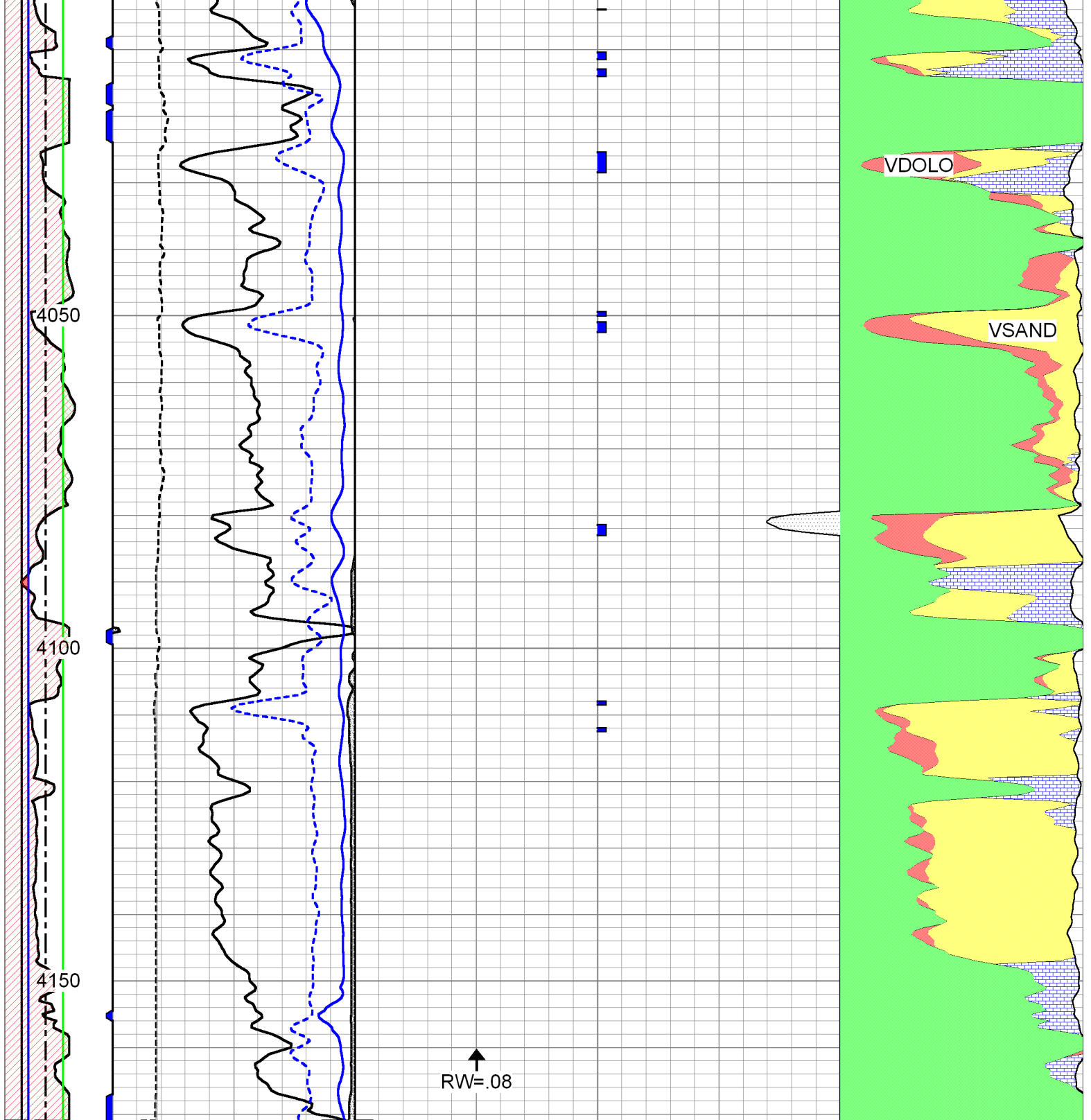
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	DGA	6		DCAL (GAPI)	16	30	PAYFLAG	0	0.3	BVW	0	0	VSAND	1
2.6	3.1	-150		SPC	0	1	SXO	0	0	PERM	30	0	VLIME	1
								0.3		BVWSXO	0	0	VDOLO	1











20	CLF	1	0	Gamma Ray	150	1	SW	0	0.3	PHIE	0	0	VCL	1
DGA	6	DCAL (GAPI)	16	30	PAYFLAG	0	0.3	BVW	0	0	0	0	VSAND	1
2.6	3.1	-150	SPC	0	1	SXO	0	0	PERM	30	0	0	VLIME	1
								0.3	BVWSXO	0	0	0	VDOLO	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: 2012.06.05 @ 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:

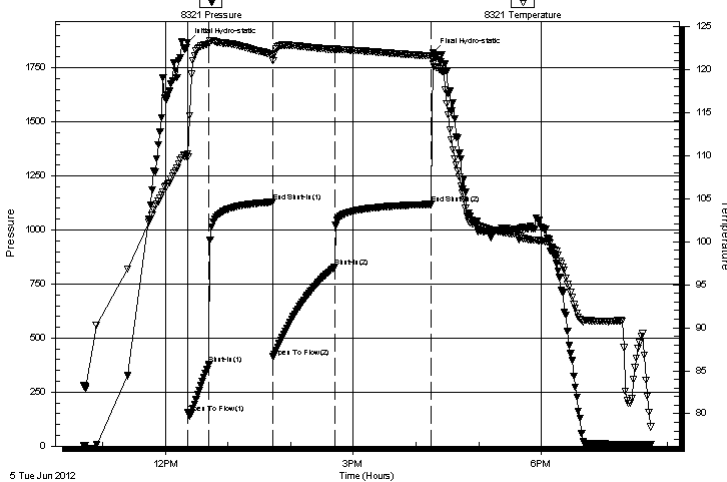
2012.06.05 @ 12:21:22

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 vs. Time



## 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

**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
------------------	-------------	------------	----------	------------	----------------

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 in<sup>3</sup>

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

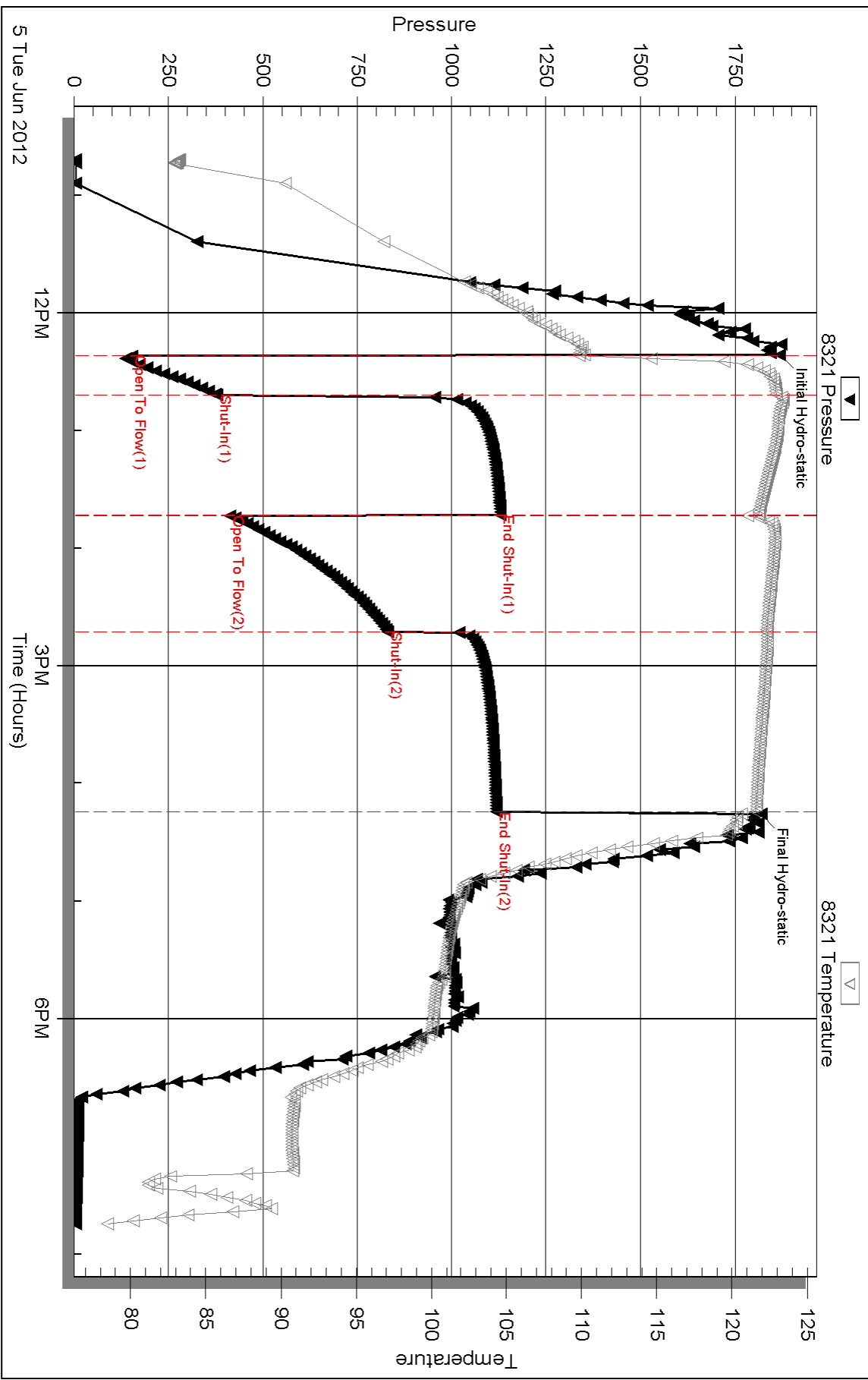
Inside

Cobalt Energy LLC

Terry A #1-1

DST Test Number: 1

# Pressure vs. Time



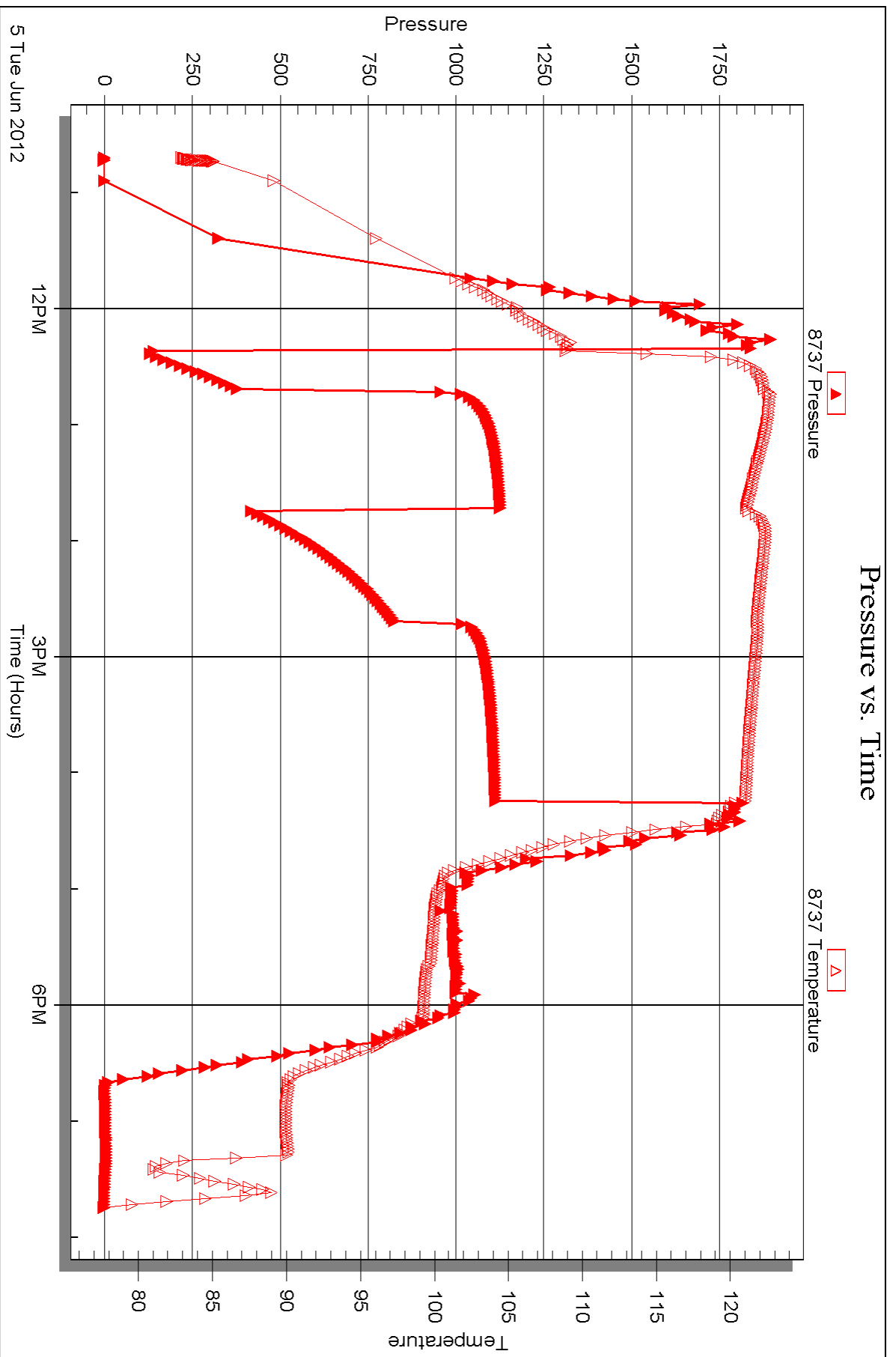


Serial #: 8737

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

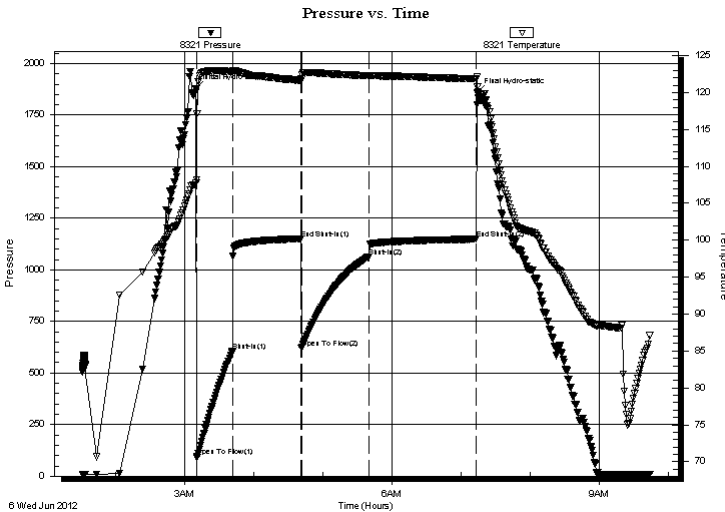
End Time: 09:43:43

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

1-11s-25w Trego, KS

PO Box 8037  
Wichita KS 67208

Terry A #1-1

ATTN: Nicholas D Hess

Job Ticket: 47777

DST#: 2

Test Start: 2012.06.06 @ 01:31:13

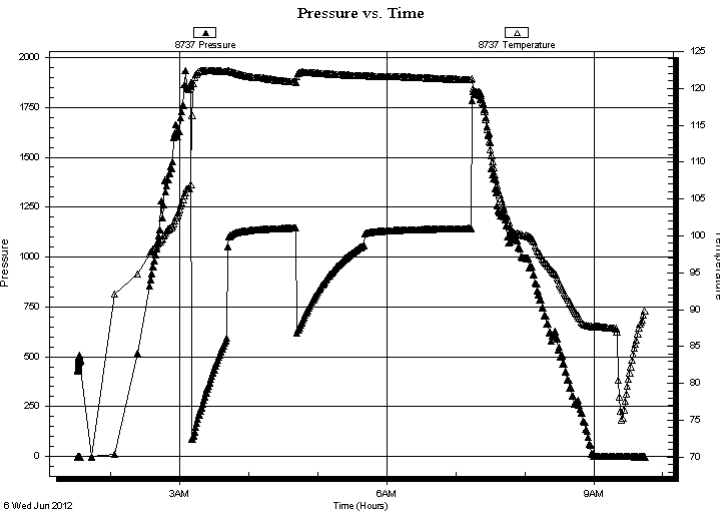
### GENERAL INFORMATION:

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

**Serial #: 8737 Outside**

Press @ RunDepth: 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
------------------	-------------	------------	----------	------------	----------------

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 in<sup>3</sup>

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	V SOCGWM 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

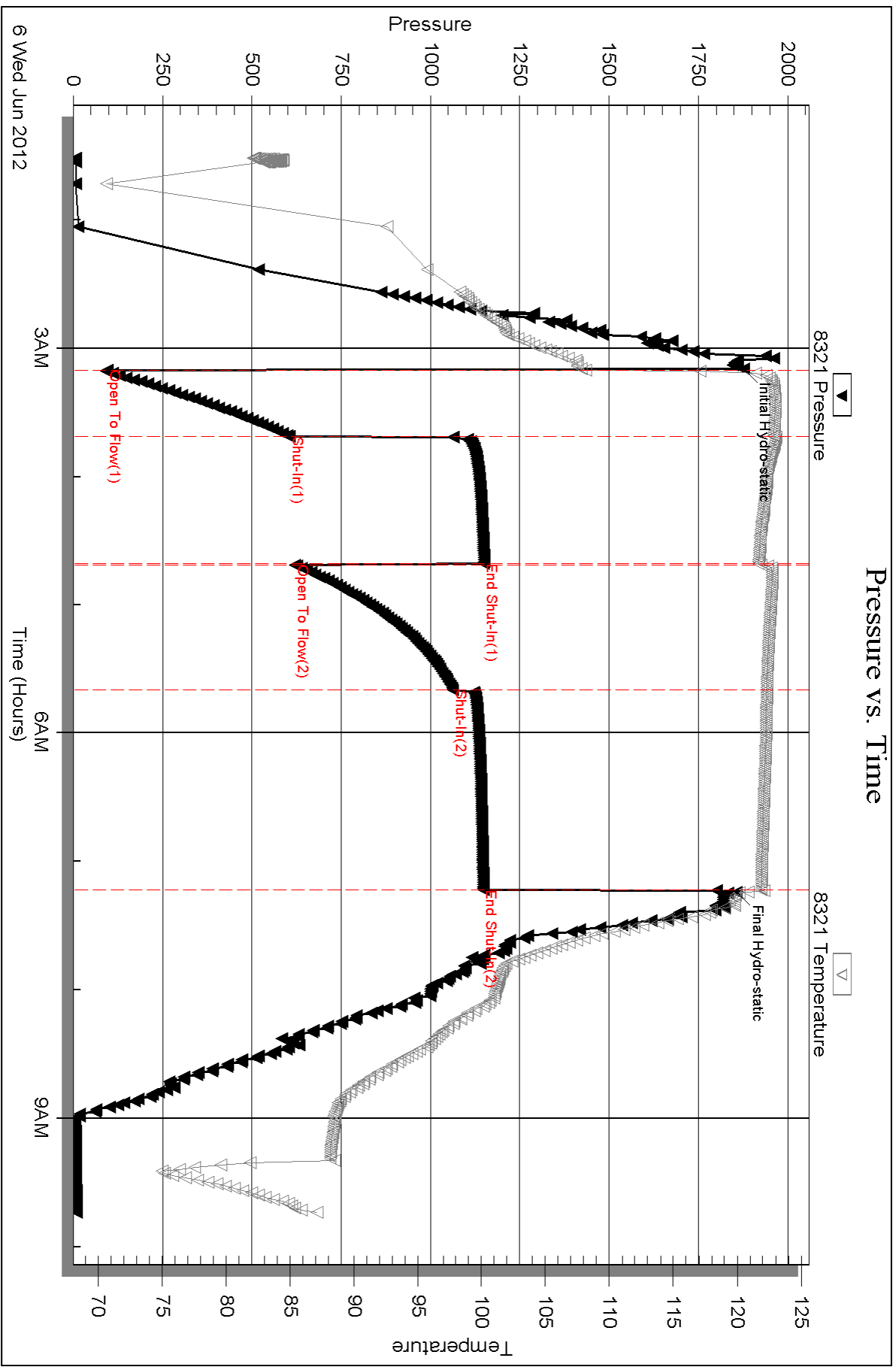
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

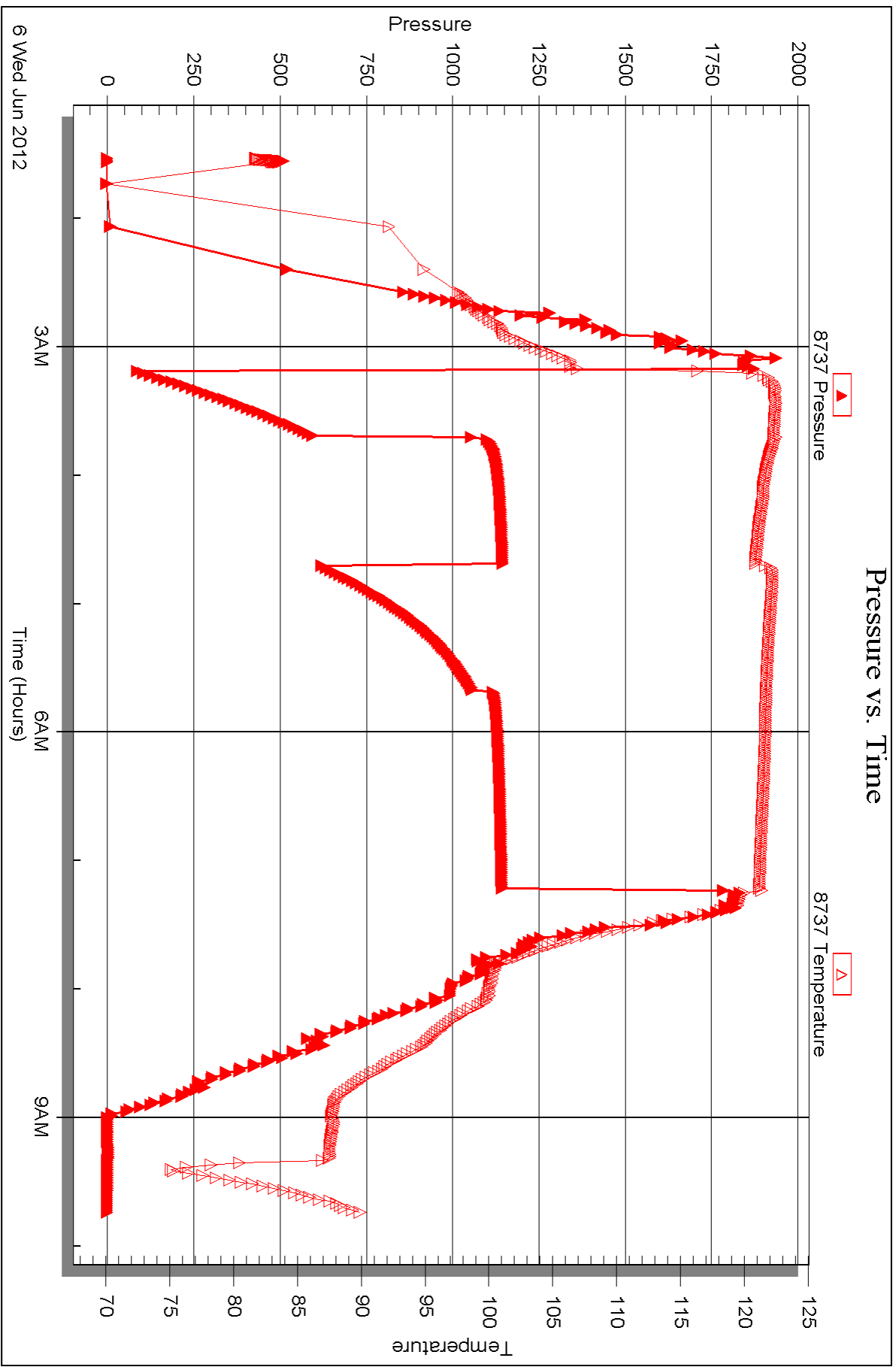


Serial #: 8737

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:

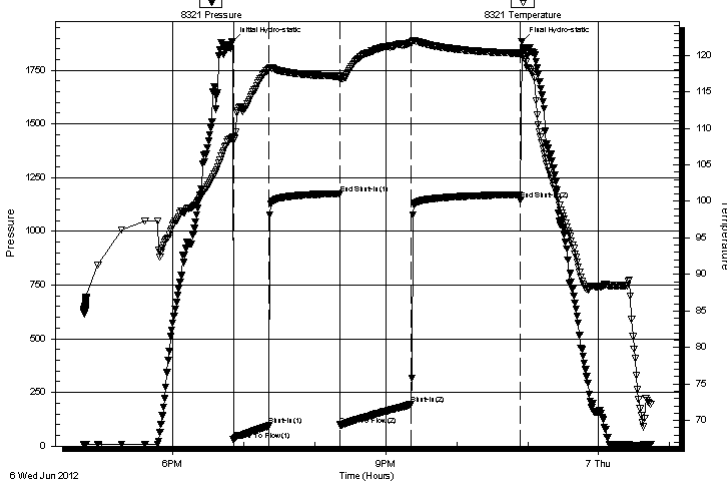
2012.06.06 @ 18:50:27

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

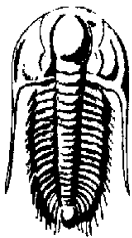
## Recovery

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

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

Total Depth: 3835.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Reference Elevations: 2400.00 ft (KB)

2395.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8737**

Outside

Press @RunDepth: psig @ 3805.00 ft (KB)

Start Date: 2012.06.06 End Date: 2012.06.07

Start Time: 16:44:09 End Time: 00:43:38

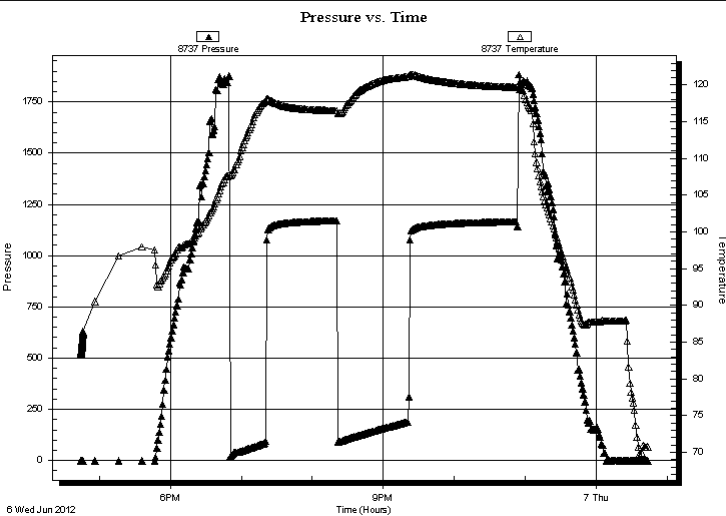
Capacity: 8000.00 psig

Last Calib.: 2012.06.07

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 w ith 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

**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
------------------	-------------	------------	----------	------------	----------------

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 in<sup>3</sup>

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 bbbl
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

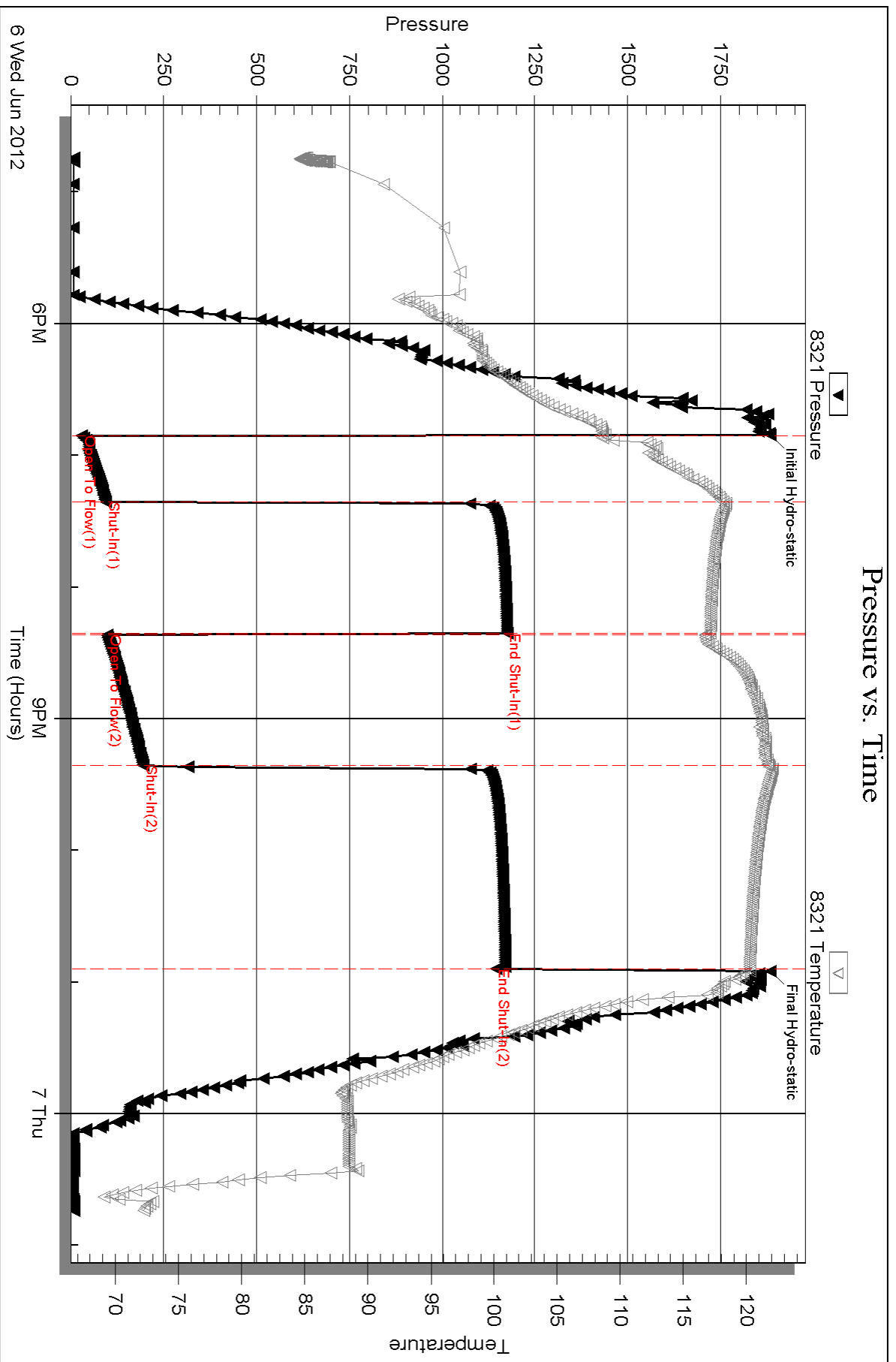
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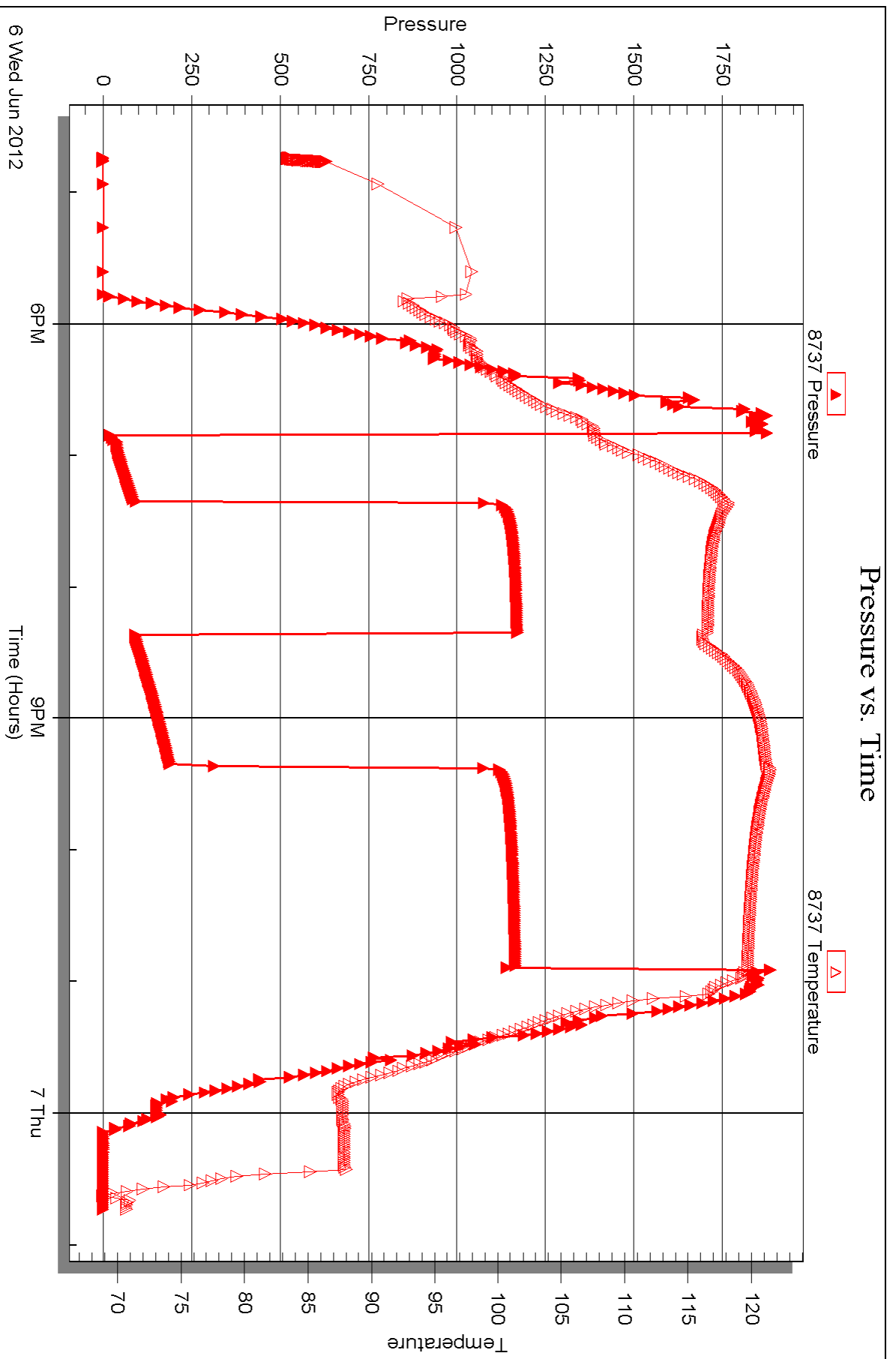
Laboratory Name:

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:

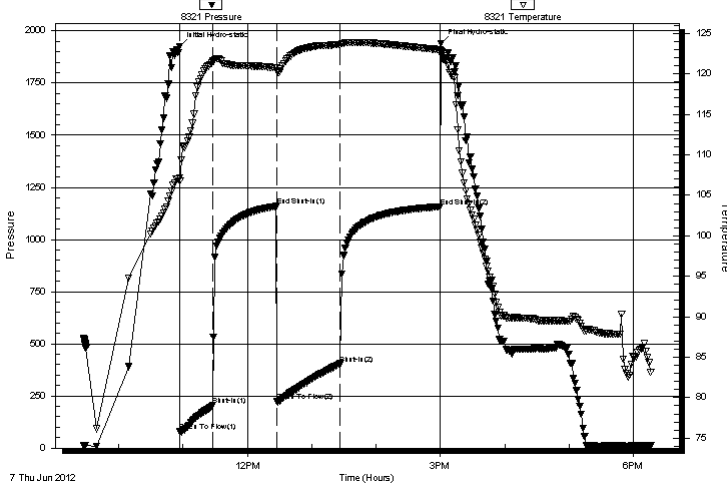
2012.06.07 @ 10:56:44

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 vs. Time



## 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

**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
------------------	-------------	------------	----------	------------	----------------

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 in<sup>3</sup>

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

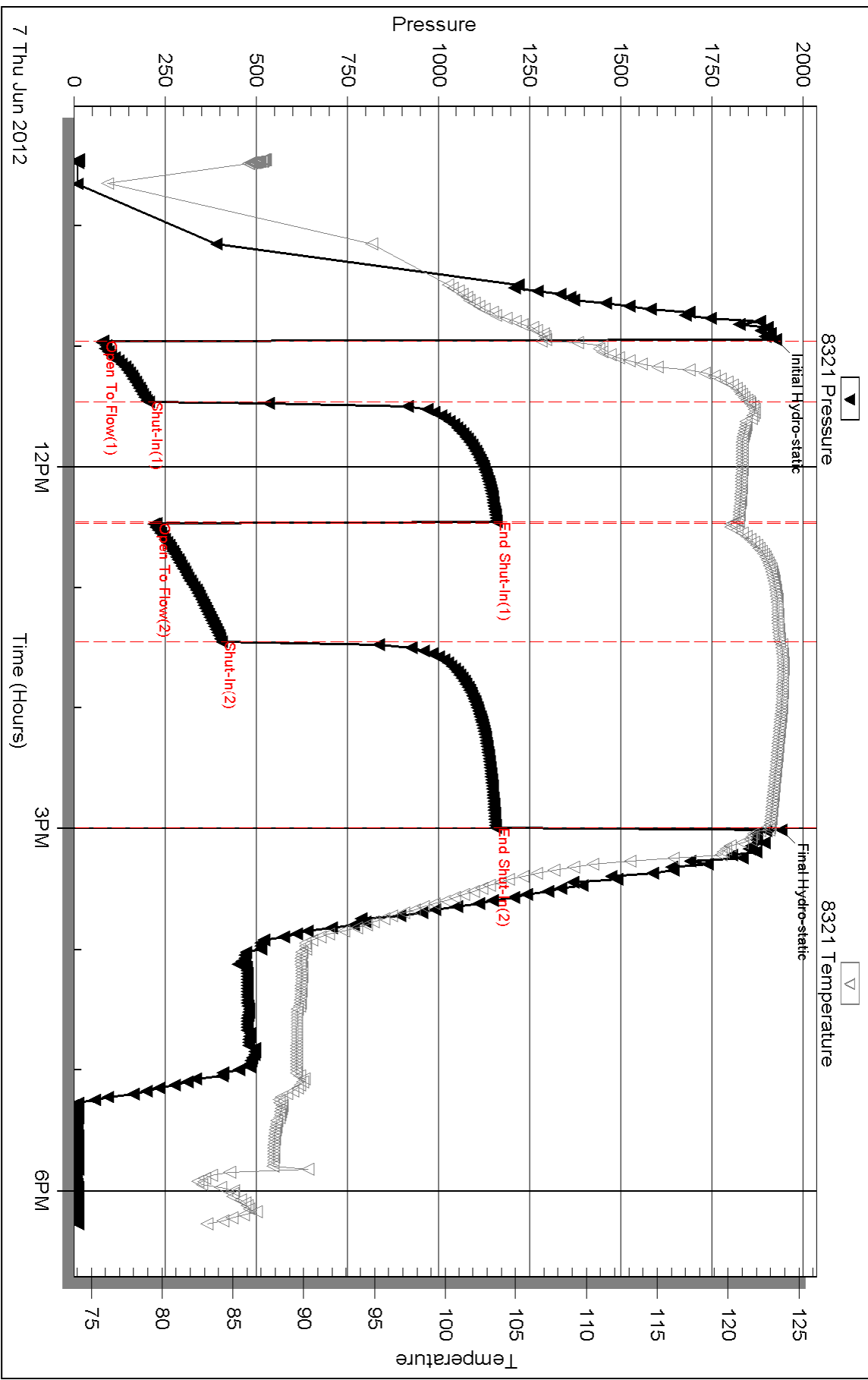
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

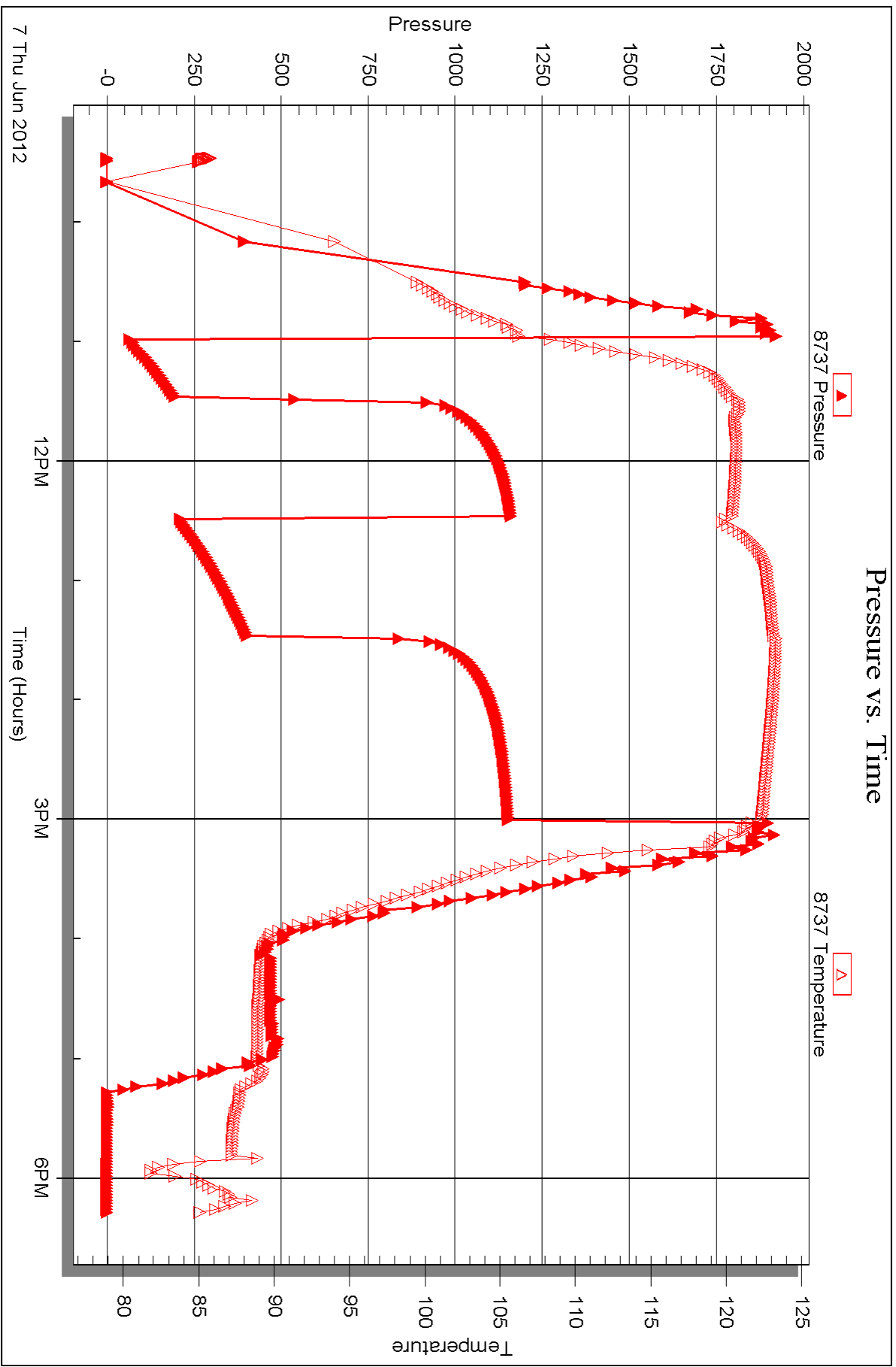


Serial #: 8737

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:

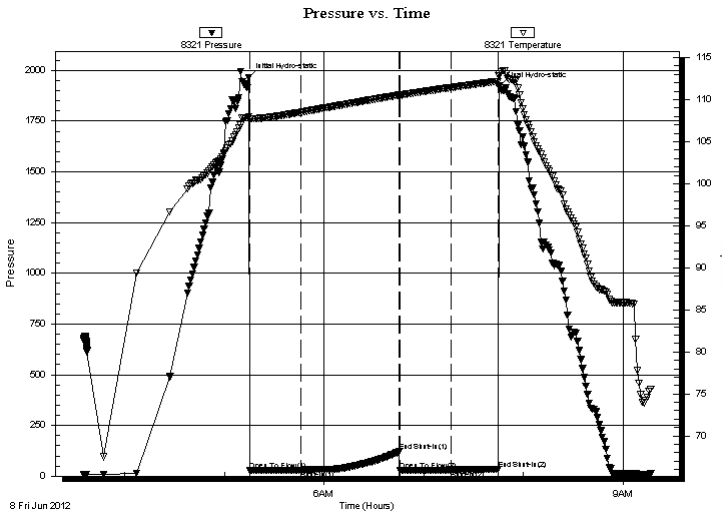
2012.06.08 @ 05:14:34

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

**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

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:

bbbl

Water Loss: 6.38 in<sup>3</sup>

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

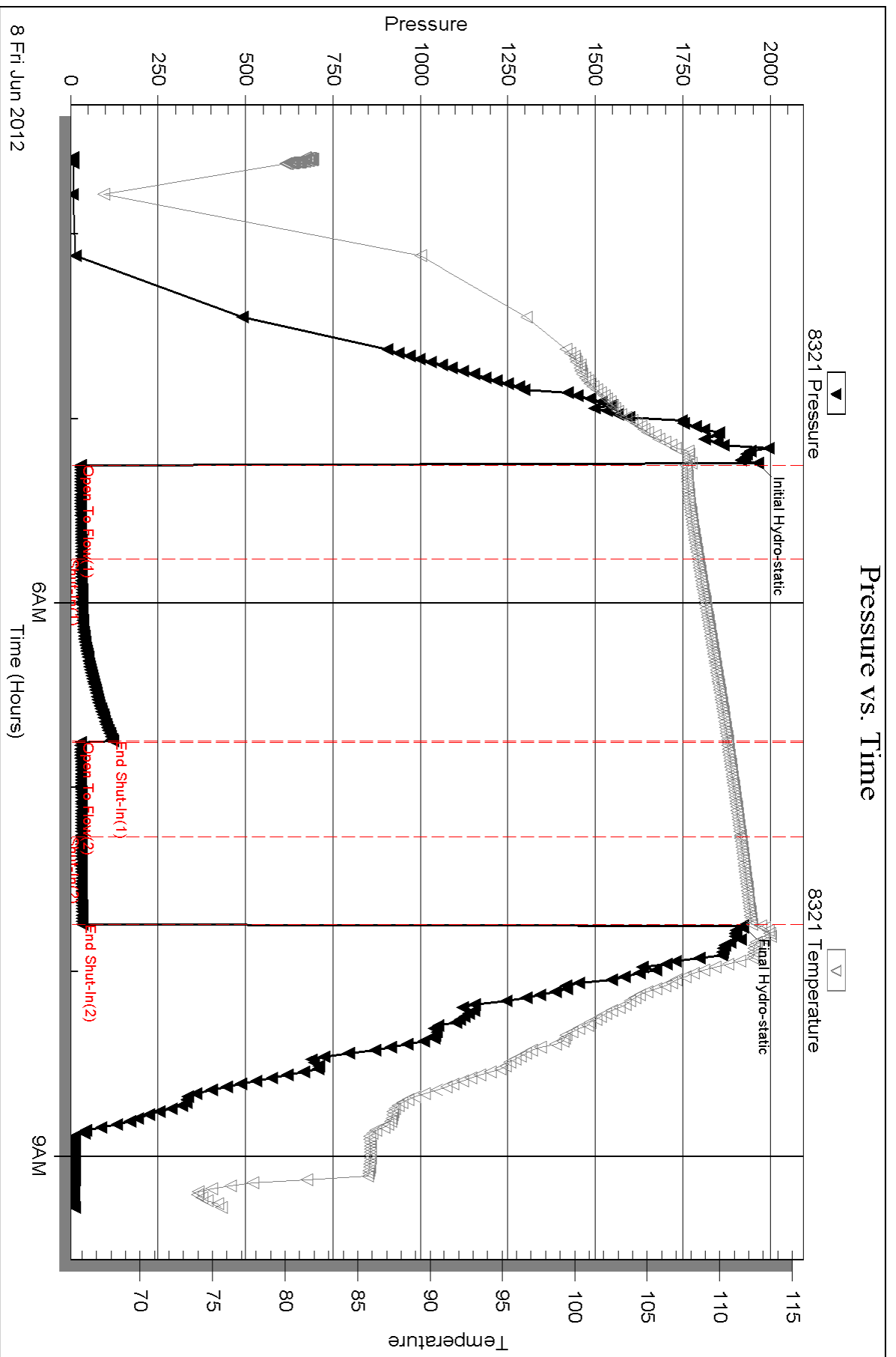
Num Gas Bombs: 0

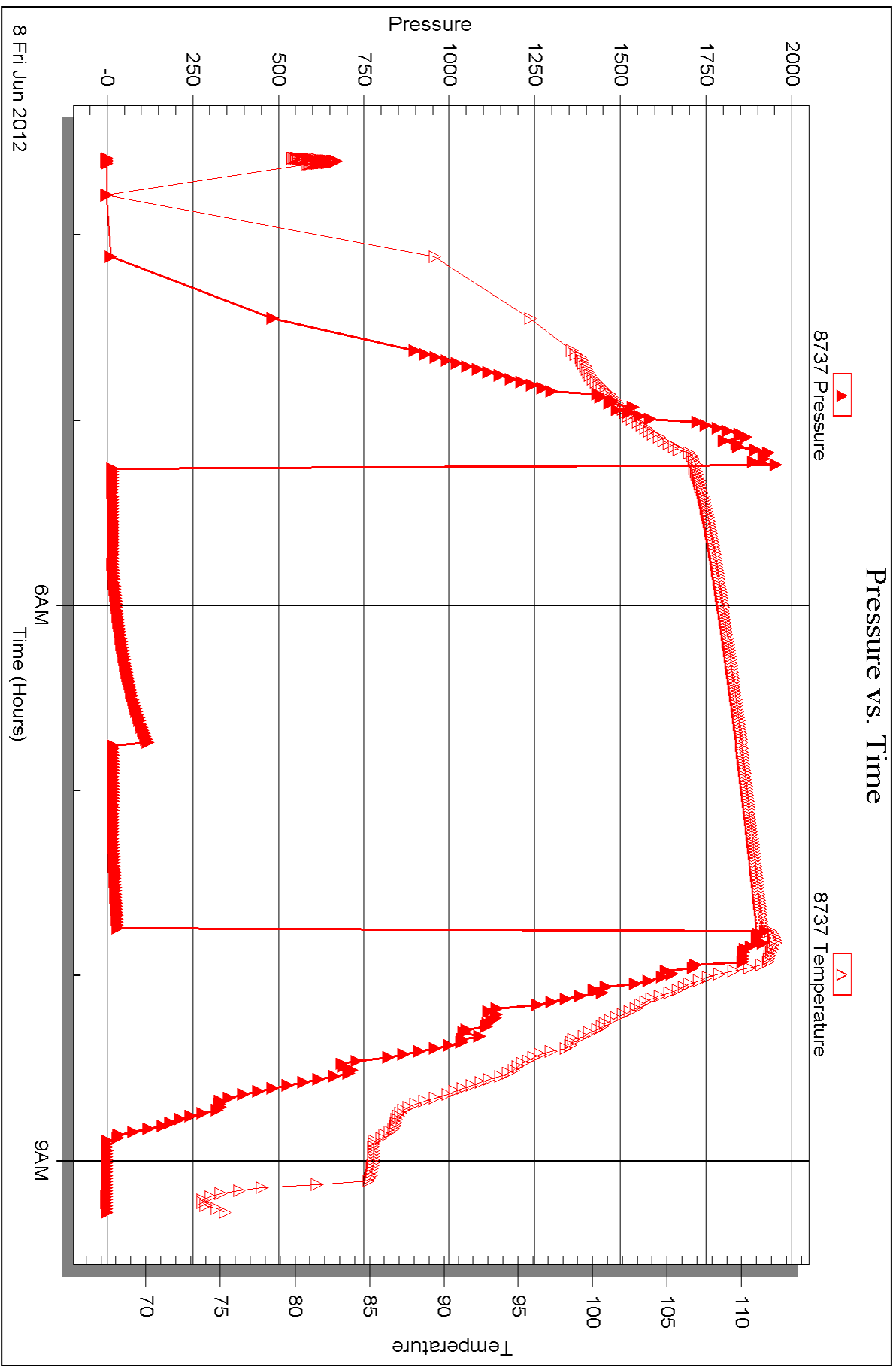
Serial #:

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:

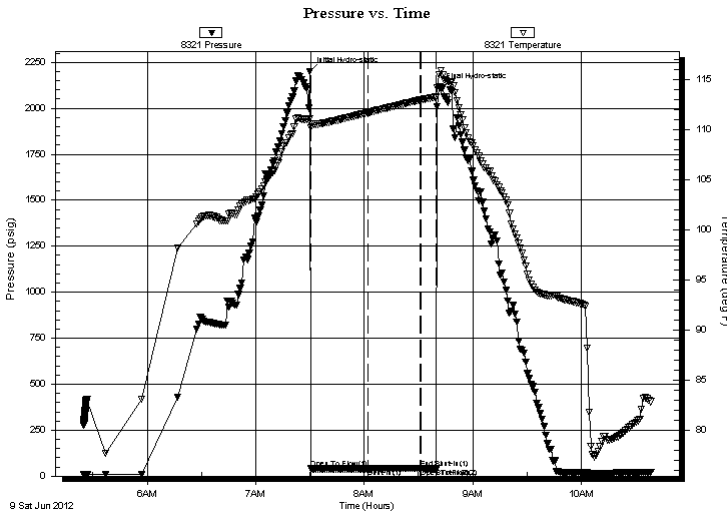
2012.06.09 @ 07:29:52

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**

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 in<sup>3</sup>

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

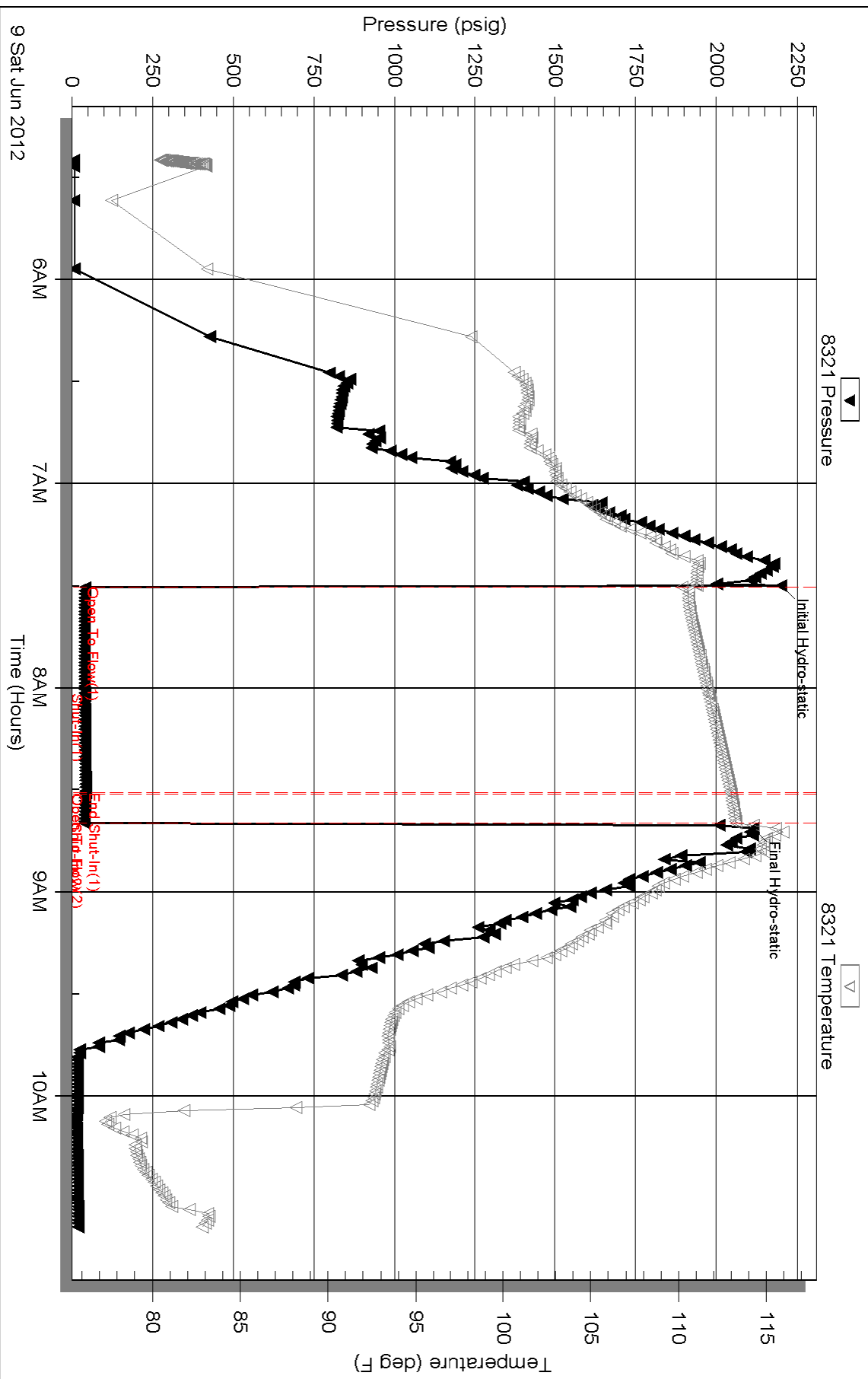
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

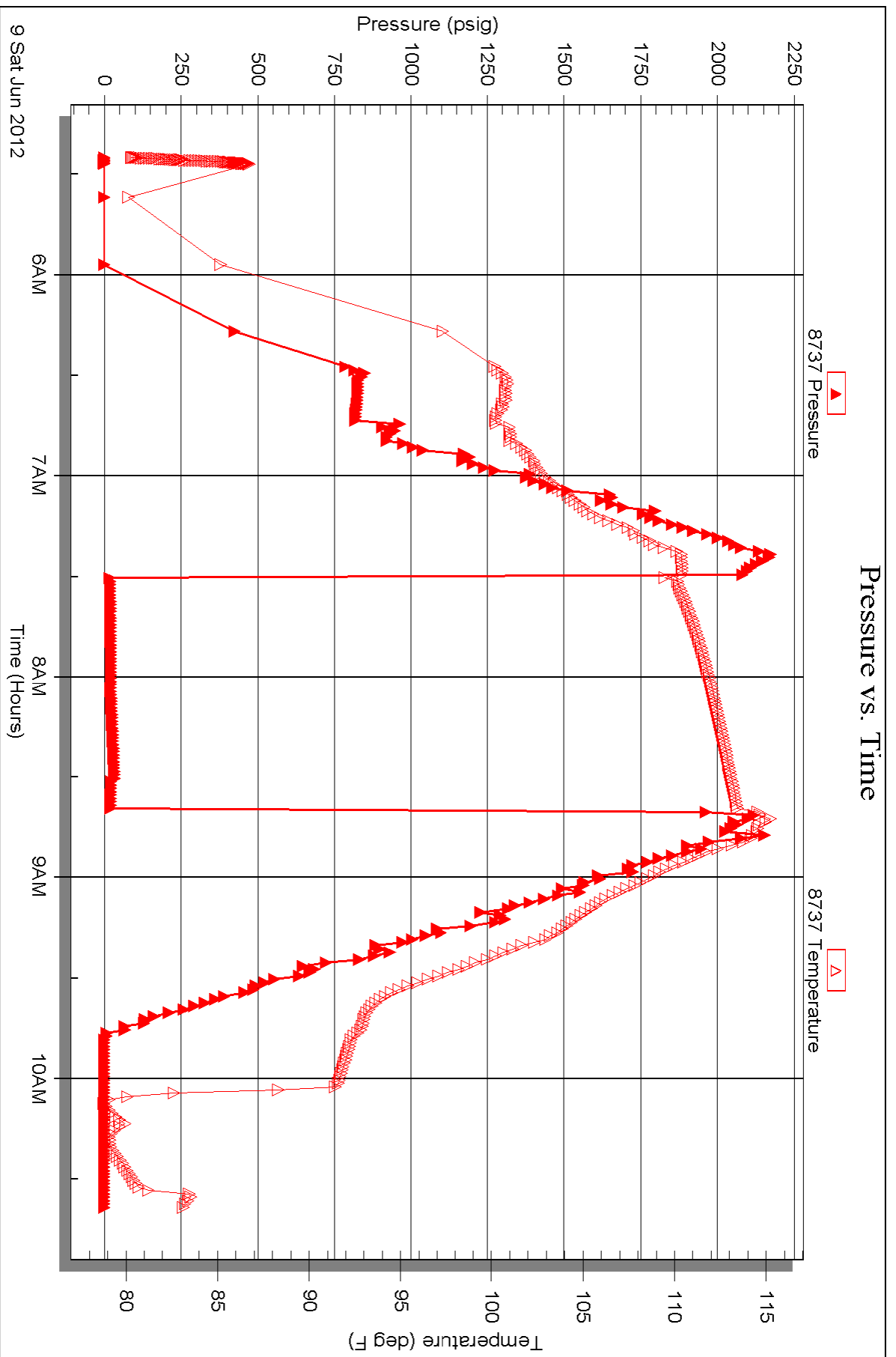


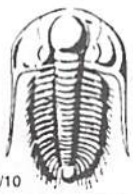
Serial #: 8737

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

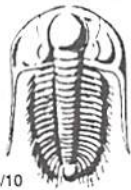
(F) Second Final Flow 829  Mileage 104 RT 161.20  
 (G) Final Shut-In 1119  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1819  Straddle \_\_\_\_\_

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  
 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. 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

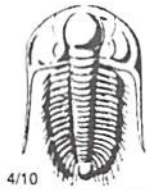
Rec	Feet of	%gas	%oil	%water	%mud
<u>2139</u>	<u>USOCGWM MW</u>			<u>90</u>	<u>10</u>
<u>126</u>	<u>MW with a scum of oil</u>			<u>65</u>	<u>35</u>
<u>20</u>	<u>USOCGWM</u>	<u>5</u>	<u>2</u>	<u>33</u>	<u>60</u>
	<u>171-GIP</u>				

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

(A) Initial Hydrostatic <u>1877</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1:20</u>
(B) First Initial Flow <u>95</u>	<input type="checkbox"/> Jars _____	T-Started <u>1:31</u>
(C) First Final Flow <u>604</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:12</u>
(D) Initial Shut-In <u>1150</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>7:12</u>
(E) Second Initial Flow <u>620</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:44</u>
(F) Second Final Flow <u>1063</u>	<input checked="" type="checkbox"/> Mileage <u>161.20</u>	Comments _____
(G) Final Shut-In <u>1149</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1857</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>600</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>600</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1386.20</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1386.20</u>	

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

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## 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>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

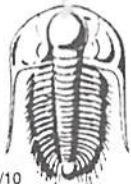
Rec Total 357 BHT 120 Gravity \_\_\_\_\_ API RW .131 @ 66.9 °F Chlorides 64,000 ppm

(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 \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Ruined Packer \_\_\_\_\_  
 Final Flow 60  Extra Copies \_\_\_\_\_  
 Final Shut-In 90 Sub Total 0  
 Total 1386.20  
 Sub Total 1386.20 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. 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>				

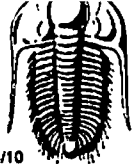
Rec Total 1018 BHT 123 Gravity 28 API RW 109 @ 89.8 °F Chlorides 59,000 ppm

(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

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

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## 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 20.4  
 Total Depth 3939 Chlorides 3400 ppm System LCM 2

Blow Description FP - Weak Blow BUIT 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  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 30

Sub Total 1386.20

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.



# 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 \_\_\_\_\_

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

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GEOLGISTS REPORT  
DRILL TIME &  
SAMPLE LOG

COMPANY **COBALT ENERGY LLC**  
LEASE **Terry 'A' #1-1**  
FIELD **Wildcat**

ELEVATIONS  
KB **2400'**  
DF \_\_\_\_\_

LOCATION **2222' FNL & 1640' FWL**  
SEC. **1** TWP **11S** RGE **25W**  
COUNTY **Trego** STATE **KS**  
CONTRACTOR **Martin Drilling - Rig #16**

GL **2395'**  
Measurements Are All From **KB**

RTD **4205'** LTD **4204'**  
SPUD **6/01/12** COMP **06/09/12**  
MUD UP **3290'** TYPE MUD **Chemical**

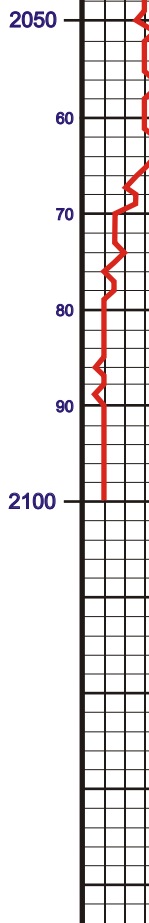
CASING  
Conductor **NA**  
Surface **8 5/8" @ 218'**  
Production **4 1/2" @ 1199'**

SAMPLES SAVED FROM **3600'** TO **RTD**  
DRILLING TIME KEPT FROM **3600'** TO **RTD**  
SAMPLING EXAMINED FROM **3600'** TO **RTD**

Geological Surveys/  
Empirical Neutron-Density  
Log-Tool (Pioneer Wireline)

GEOLGIST ON WELL **Corey N. Baker**  
FORMATION TOPS  
Anhydrite **2027 (+373)**  
Base of Anhydrite **2063 (+337)**  
Heebner **3702 (-1302)**  
Lansing **3727 (-1327)**  
Stark **3928 (-1538)**  
Fort Scott **4185 (-1781)**  
RTD **4204 (-1804)**

ELECTRIC LOG  
SAMPLE  
2027 (+373)  
2063 (+337)  
3702 (-1302)  
3723 (-1339)  
3729 (-1339)  
3928 (-1538)  
3981 (-1581)  
4185 (-1781)  
4205 (-1805)

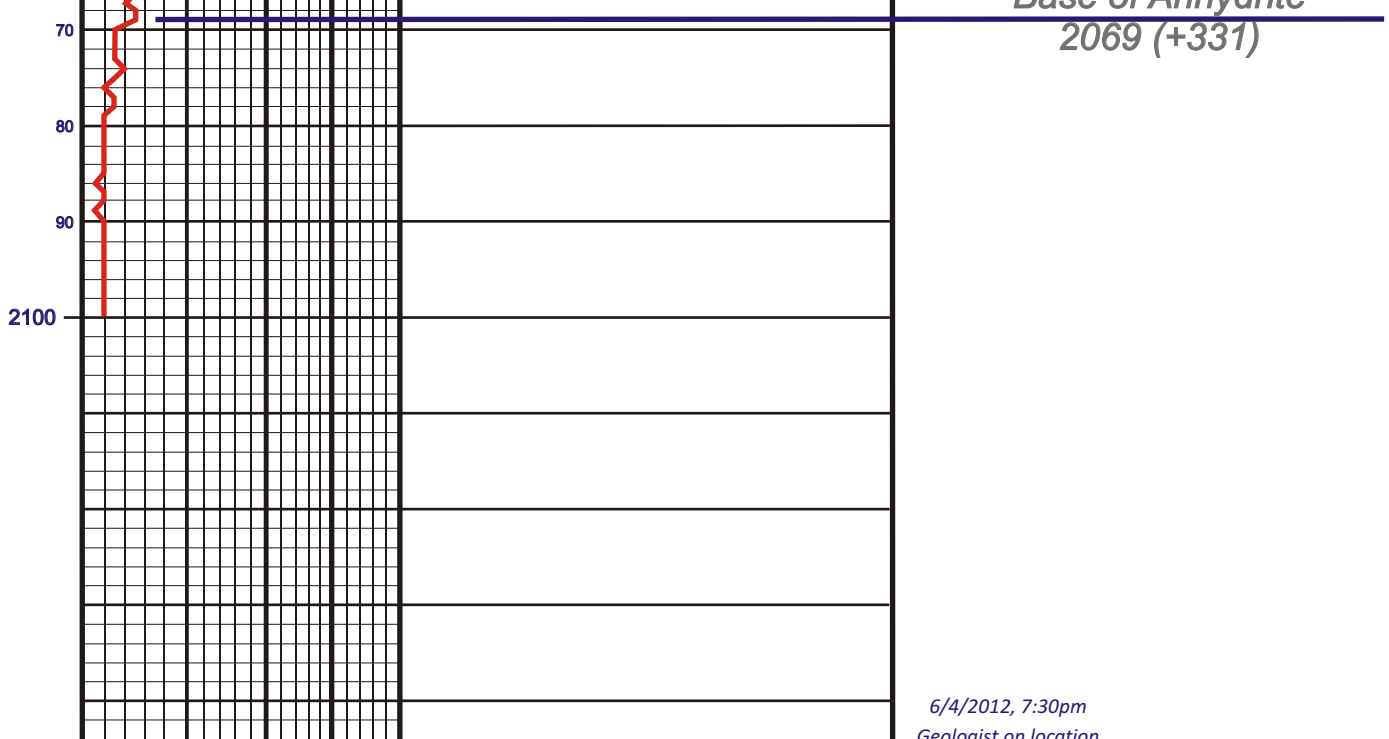


REMARKS  
**Based on results of DST #1, #4, sample descriptions and log review, it was decided by all parties that production casing be set to further test the potential of the Terry 'A' #1-1.**

Drill Stem testing done by Jeff Brown of Trilobite Testing.  
Respectfully Submitted,  
**Corey Baker**  
Petroleum Geologist

API #15-195-22778-00-00

LEGEND



Main log table with columns: LITHOLOGY, DEPTH, OIL SHOWS, SAMPLE DESCRIPTION, REMARKS. Includes depth scale from 2000 to 4200 feet and detailed sample descriptions.

Summary table with columns: LITHOLOGY, DEPTH, OIL SHOWS, SAMPLE DESCRIPTION, REMARKS. Contains a condensed version of the log data.

Company **COBALT ENERGY, LLC** Elevation **2400' KB**  
Location **Terry 'A' #1-1**  
Location **2222' FNL & 1640' FWL** SEC. **1** TWP **11S** RGE **25W**  
County **Trego** State **Kansas**

# ALLIED OIL & GAS SERVICES, LLC 056272

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

SURFACE

Oakley

DATE <u>6-1-12</u>	SEC. <u>1</u>	TWP. <u>11S</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30pm</u>	JOB FINISH <u>2:00pm</u>
LEASE <u>Terry "A"</u>	WELL# <u>1-1</u>	LOCATION <u>ST Peter Ls 1/2 E</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>IN 1/4 E Sinto</u>					

CONTRACTOR Murfin 16 OWNER same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 219' CEMENT AMOUNT ORDERED 150 SKS com 3% cc

CASING SIZE 8 5/8 DEPTH 218' 2% gel

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM COMMON 150 SKS @ 16.25 2437.50

MEAS. LINE SHOE JOINT POZMIX @

CEMENT LEFT IN CSG. 15 GEL 3 SKS @ 21.25 63.75

PERFS. CHLORIDE 5 SKS @ 58.20 291.00

DISPLACEMENT 12.93 ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

# 422 HELPER Tyler

BULK TRUCK

# 347 DRIVER Brandon

BULK TRUCK

# DRIVER

HANDLING 11.22 c/yft @ 2.10 340.60

MILEAGE 2.35 ton/mile 7.4025 ton 869.79

TOTAL 4002.64

REMARKS:

Cement in cellar

thank you

CHARGE TO: Cobalt energy

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE 50 miles @ 7.00 350.00

MANIFOLD head @ 200.00

Light vehicle @ 400 200.00

TOTAL 1875.00

PLUG & FLOAT EQUIPMENT

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME

SIGNATURE Ay [Signature]

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

Good Job Give these guys a Raise A70

TOTAL

Consolidated



**CONSOLIDATED**  
Oil Well Services, LLC

*PROD. STR. W/L*

TICKET NUMBER 33004  
LOCATION Oakley Ks  
FOREMAN Walt Dinkel

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

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
6-10-12	2180	Terry "A" 1-1	1	11 <sup>s</sup>	25 <sup>w</sup>	Trego	
CUSTOMER		Colbyier		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		1E		399	Damon Miller		
CITY		2E		566	Thomas Burns, Jerry Yates		
STATE		1N		466-T129	Wes Flinn		
ZIP CODE		E13					
JOB TYPE	HOLE SIZE	HOLE DEPTH	CASING SIZE & WEIGHT				
Prod-DV	7 7/8	4205'	4 1/2 - 10.5				
CASING DEPTH	DRILL PIPE	TUBING	OTHER				
4187'			DV 2/1981'				
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING				
14.2			42				
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE				
65 1/2			6 BPM				

REMARKS: Safety Meeting, rig up on MurFin 16", ran float equipment cont, 3-5-9-11-13-14-53, Basket on 53, DV on Top of 54, Circ + Rotate on bottom, Pump 500 gal Mud Flush + 20 BBL KCL mix 150 SKS OWC, 5# Kalseal, shear Pump + Lines, release Plug + Displace 33 BBL H2O + 32 1/2 BBL mud @ 600#, landed Plug @ 1300#. wait 30 min, open DV Tool, mixed 30 SKS in R.H., 20 SKS in M.H., mixed approx 350 SKS @ 40ppm, 8% Cel, 1/4# F.S. Last Circ, wait 30 min Pump 1/2 BPM mix 25 SKS, wait 15 min, mix 25 SKS @ 1/2 BPM, no returns, clear Pump + Lines Displace Plug @ 1/2 BPM @ 600#, Have returns

Thank You - Walt + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401c	1	PUMP CHARGE	3,020.00	3,020.00
5406	45	MILEAGE	5.00	225.00
1126	150 SKS	OWC	22.55	3,382.50
1131	500 SKS	60/40 per	15.10	7,550.00
1118B	3440 #	Bentonite	.25	860.00
1110A	750 #	Kalseal	.56	420.00
1107	125 #	Flu Seal	2.82	352.50
11446	500 gal	mud Flush	1.00	500.00
1142A	2-6al	KCL	39.10	78.20
5407A	28.55	Ton Mileage Delivery	1.67	2,145.60
4161	1	4 1/2 - AFU Float Shoe	342.00	342.00
4129	8	4 1/2 - Centralizers	46.00	368.00
4103	1	4 1/2 Basket	261.00	261.00
4283	1	4 1/2 - DV Tool w/ Latch	3850.00	3850.00
				23,354.80
		Less 10% Disc		2,335.48
				21,019.32
		SALES TAX		1,221.53
		ESTIMATED TOTAL		22,340.89

Ravin 3737

*[Signature]*

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ 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.