

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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
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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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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

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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	BROTHERS "A" 2-11
Doc ID	1351702

Tops

Name	Top	Datum
Anhy	2129	828
Krider	2609	392
Winfield	2651	306
Towanda	2711	246
Heebner	3808	-851
Lansing	3855	-898
Stark	4209	-1252
Cherokee Sh	4452	-1495
Morrow Sh	4575	-1618
Mrw sand upper	4589	-1632
Mrw sand mid	4608	-1651
Mrw sand low	NA	NA
Miss	4670	-1713

GLOBAL OIL FIELD SERVICES, LLC

2898

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT:

DATE <u>3-31-17</u>	SEC. <u>11</u>	TWP. <u>25</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>B...</u>	WELL # <u>2-11A</u>	LOCATION			COUNTY <u>SE...</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR [Signature] # 110

TYPE OF JOB DIY HOSE P.C.S.

HOLE SIZE 7 1/2" T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 1 1/2" DEPTH 2160'

TOOL _____ DEPTH _____

PRES. MAX. _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER B...

1107 HELPER _____

BULK TRUCK _____

... DRIVER ...

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

<u>121</u>	<u>2160'</u>	<u>50 SF</u>	<u>...</u>	<u>15 SF</u>
<u>122</u>	<u>1260'</u>	<u>80 SF</u>	<u>...</u>	<u>30 SF</u>
<u>320</u>	<u>630'</u>	<u>50 SF</u>		
<u>44</u>	<u>210'</u>	<u>50 SF</u>		

OWNER _____

CEMENT AMOUNT ORDERED 1 1/2 GTC 11 P.C.S.

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: ...

STREET _____

CITY _____ STATE _____ ZIP _____

Global Oil Field 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 [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

2893

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT:
Russell, KS

DATE 3-22-17	SEC. 11	TWP. 20 S	RANGE 33 W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE BROTHERS A WELL #. 2-11						COUNTY SCOTT	STATE KS
LOCATION Scott City, KS							
JOB FINISH 7:30 PM							
STATE KS							
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR WW Drilling Rig #10

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH 217'

TUBING SIZE DEPTH

DRILL PIPE 4 1/2" DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20'

PERFS

DISPLACEMENT 12.5 BBL

EQUIPMENT

PUMP TRUCK CEMENTER BRAD

409 HELPER CODY

BULK TRUCK

473 DRIVER KRIS

BULK TRUCK

DRIVER

OWNER

CEMENT AMOUNT ORDERED 200 SY 60/40
36 cc 2% GEL

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Run in 5 JTS. NEW CASING, CIRCULATE MUD.
HOOK UP CEMENT, MIX 5% CEMENT WASH
UP + DISPLACE W/ 12.5 BBL H2O, CEMENT
DID CIRCULATE

CHARGE TO: Cobalt Energy

STREET PO Box 8037

CITY Wichita STATE KS ZIP 67209

Global Oil Field 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 [Signature]

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Tim Lauer

Brothers A #2-11

11 20s 33w Scott,KS

Start Date: 2017.03.27 @ 21:09:00

End Date: 2017.03.28 @ 04:29:30

Job Ticket #: 63765 DST #: 1

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

Printed: 2017.03.30 @ 15:20:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC
 PO Box 8037
 Wichita, KS 67208
 ATTN: Tim Lauer

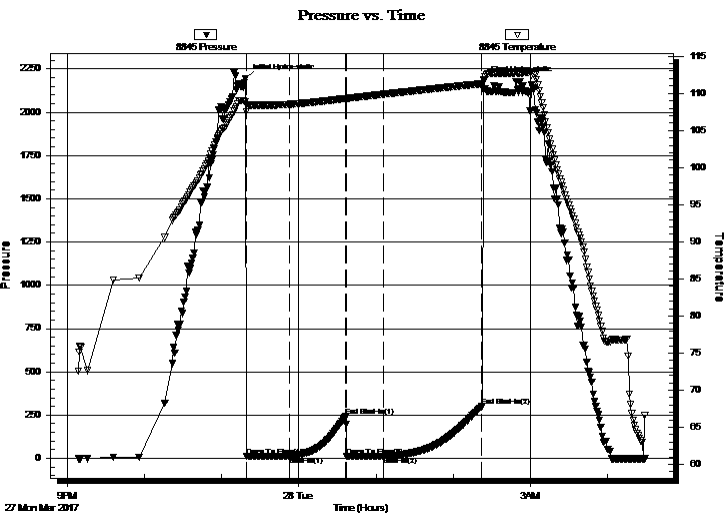
11 20s 33w Scott, KS
Brothers A #2-11
 Job Ticket: 63765 **DST#: 1**
 Test Start: 2017.03.27 @ 21:09:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:19:15
 Time Test Ended: 04:29:30
 Interval: **4315.00 ft (KB) To 4352.00 ft (KB) (TVD)**
 Total Depth: 4352.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2957.00 ft (KB)
 2952.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8845 Outside
 Press@RunDepth: 13.57 psig @ 4316.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.27 End Date: 2017.03.28 Last Calib.: 2017.03.28
 Start Time: 21:09:05 End Time: 04:29:29 Time On Btm: 2017.03.27 @ 23:19:00
 Time Off Btm: 2017.03.28 @ 02:24:00

TEST COMMENT: IF: Surface blow , Receded to a weak Surface blow .
 IS: No return.
 FF: No blow .
 FS: No return.



PRESSURE SUMMARY

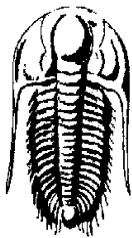
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.45	108.87	Initial Hydro-static
1	11.43	107.56	Open To Flow (1)
34	12.14	108.52	Shut-In(1)
78	240.70	109.30	End Shut-In(1)
78	12.79	109.28	Open To Flow (2)
107	13.57	109.88	Shut-In(2)
184	300.57	111.30	End Shut-In(2)
185	2183.71	111.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC

11 20s 33w Scott, KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63765 **DST#: 1**

ATTN: Tim Lauer

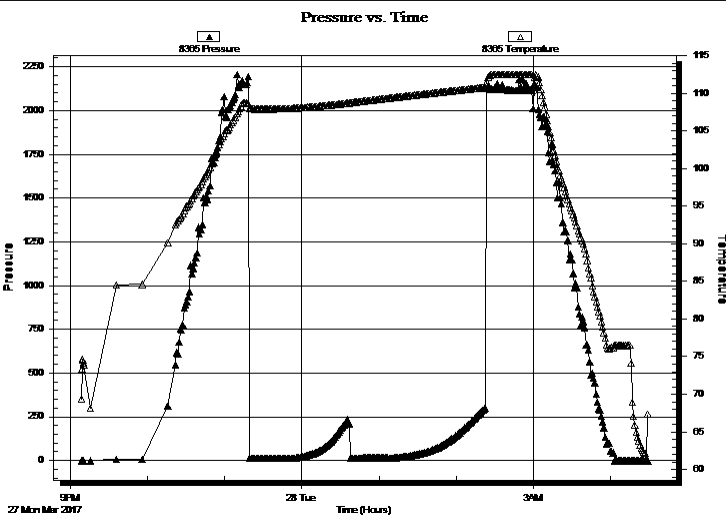
Test Start: 2017.03.27 @ 21:09:00

GENERAL INFORMATION:

Formation: Marmaton			
Deviated: No Whipstock: ft (KB)		Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 23:19:15		Tester: Bradley Walter	
Time Test Ended: 04:29:30		Unit No: 78	
Interval: 4315.00 ft (KB) To 4352.00 ft (KB) (TVD)		Reference Elevations: 2957.00 ft (KB)	
Total Depth: 4352.00 ft (KB) (TVD)		2952.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft	

Serial #: 8365	Inside				
Press@RunDepth: psig @	4316.00 ft (KB)	Capacity:	8000.00 psig		
Start Date: 2017.03.27	End Date: 2017.03.28	Last Calib.:	2017.03.28		
Start Time: 21:09:05	End Time: 04:29:29	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: IF: Surface blow, Receded to a weak Surface blow.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

11 20s 33w Scott, KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63765

DST#: 1

ATTN: Tim Lauer

Test Start: 2017.03.27 @ 21:09:00

Tool Information

Drill Pipe:	Length: 4200.00 ft	Diameter: 3.80 inches	Volume: 58.91 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 59.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4315.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 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			4296.00	
Shut In Tool	5.00			4301.00	
Hydraulic tool	5.00			4306.00	
Packer	5.00			4311.00	20.00 Bottom Of Top Packer
Packer	4.00			4315.00	
Stubb	1.00			4316.00	
Recorder	0.00	8365	Inside	4316.00	
Recorder	0.00	8845	Outside	4316.00	
Perforations	33.00			4349.00	
Bullnose	3.00			4352.00	37.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

11 20s 33w Scott, KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63765

DST#: 1

ATTN: Tim Lauer

Test Start: 2017.03.27 @ 21:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

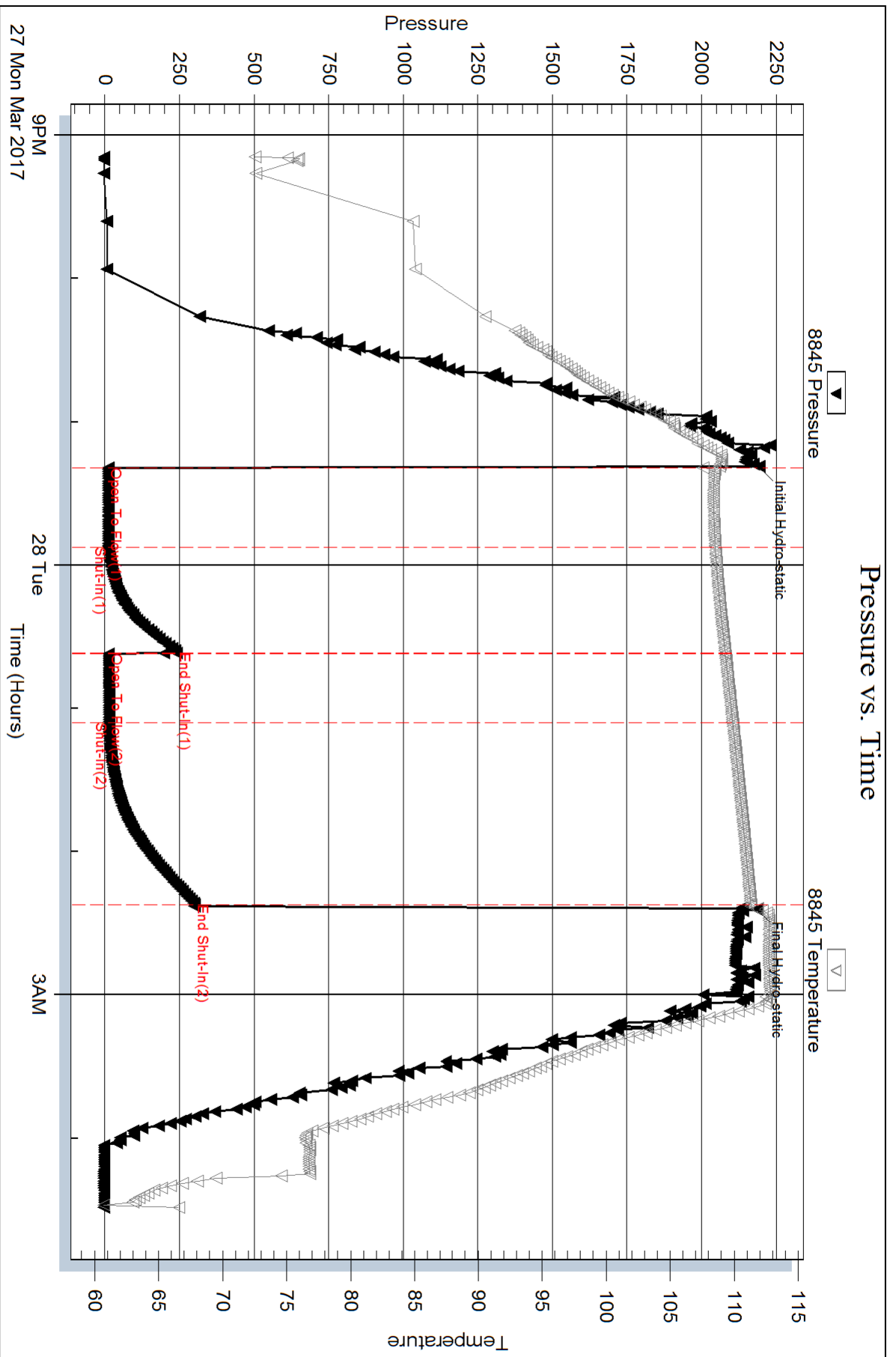
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



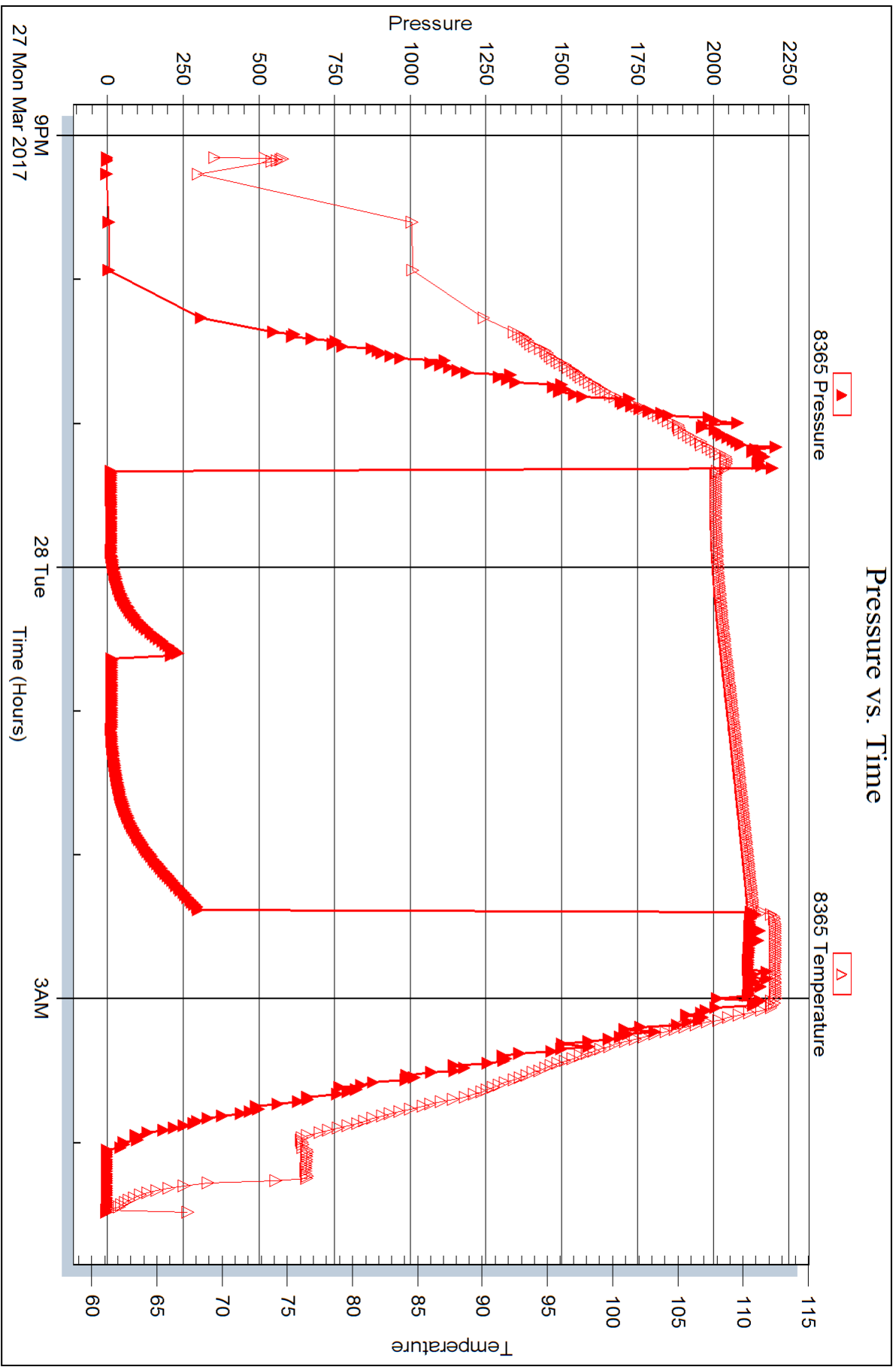
Serial #: 8365

Inside

Cobalt Energy, LLC

Brothers A #2-11

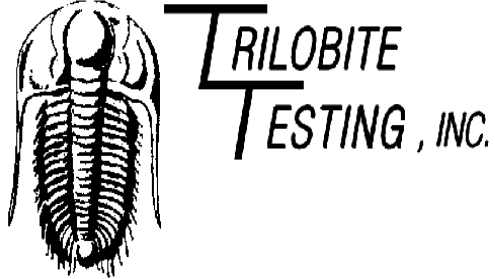
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63765

Printed: 2017.03.30 @ 15:20:35



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Tim Lauer

Brothers A #2-11

11 20s 33w Scott,KS

Start Date: 2017.03.29 @ 02:12:00

End Date: 2017.03.29 @ 09:26:00

Job Ticket #: 63766 DST #: 2

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

Printed: 2017.03.30 @ 15:19:56



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC
 PO Box 8037
 Wichita, KS 67208
 ATTN: Tim Lauer

11 20s 33w Scott, KS
Brothers A #2-11
 Job Ticket: 63766 **DST#: 2**
 Test Start: 2017.03.29 @ 02:12:00

GENERAL INFORMATION:

Formation: **Cherokee Lime**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:38:00
 Time Test Ended: 09:26:00
 Interval: **4490.00 ft (KB) To 4560.00 ft (KB) (TVD)**
 Total Depth: 4560.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2957.00 ft (KB)
 2952.00 ft (CF)
 KB to GR/CF: 5.00 ft

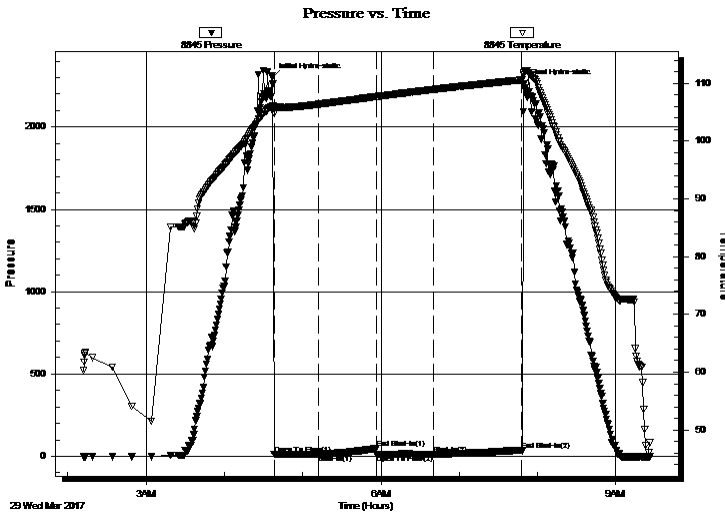
Serial #: 8845

Outside

Press@RunDepth: 13.95 psig @ 4491.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.29 End Date: 2017.03.29 Last Calib.: 2017.03.29
 Start Time: 02:12:05 End Time: 09:25:59 Time On Btm: 2017.03.29 @ 04:36:45
 Time Off Btm: 2017.03.29 @ 07:49:30

TEST COMMENT: IF: 1/2" blow.
 IS: No return.
 FF: No blow.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2299.24	105.99	Initial Hydro-static
2	12.90	104.77	Open To Flow (1)
35	14.05	106.36	Shut-In(1)
80	47.33	107.70	End Shut-In(1)
80	13.78	107.70	Open To Flow (2)
124	13.95	108.93	Shut-In(2)
192	38.37	110.58	End Shut-In(2)
193	2261.93	111.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC
 PO Box 8037
 Wichita, KS 67208
 ATTN: Tim Lauer

11 20s 33w Scott, KS
Brothers A #2-11
 Job Ticket: 63766 **DST#: 2**
 Test Start: 2017.03.29 @ 02:12:00

GENERAL INFORMATION:

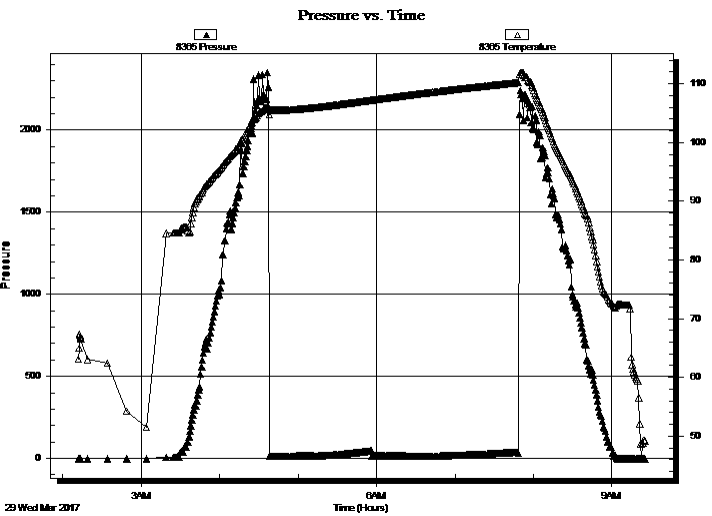
Formation: **Cherokee Lime**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 04:38:00 Tester: Bradley Walter
 Time Test Ended: 09:26:00 Unit No: 78

Interval: **4490.00 ft (KB) To 4560.00 ft (KB) (TVD)** Reference Elevations: 2957.00 ft (KB)
 Total Depth: 4560.00 ft (KB) (TVD) 2952.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8365 **Inside**

Press@RunDepth: psig @ 4491.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.29 End Date: 2017.03.29 Last Calib.: 1899.12.30
 Start Time: 02:12:05 End Time: 09:25:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/2" blow.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	0.02

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

11 20s 33w Scott,KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63766

DST#: 2

ATTN: Tim Lauer

Test Start: 2017.03.29 @ 02:12:00

Tool Information

Drill Pipe:	Length: 4355.00 ft	Diameter: 3.80 inches	Volume: 61.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 61.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4490.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	90.00 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			4471.00	
Shut In Tool	5.00			4476.00	
Hydraulic tool	5.00			4481.00	
Packer	5.00			4486.00	20.00 Bottom Of Top Packer
Packer	4.00			4490.00	
Stubb	1.00			4491.00	
Recorder	0.00	8365	Inside	4491.00	
Recorder	0.00	8845	Outside	4491.00	
Perforations	33.00			4524.00	
Change Over Sub	1.00			4525.00	
Drill Pipe	31.00			4556.00	
Change Over Sub	1.00			4557.00	
Bullnose	3.00			4560.00	70.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

11 20s 33w Scott,KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63766

DST#: 2

ATTN: Tim Lauer

Test Start: 2017.03.29 @ 02:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m (oil spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

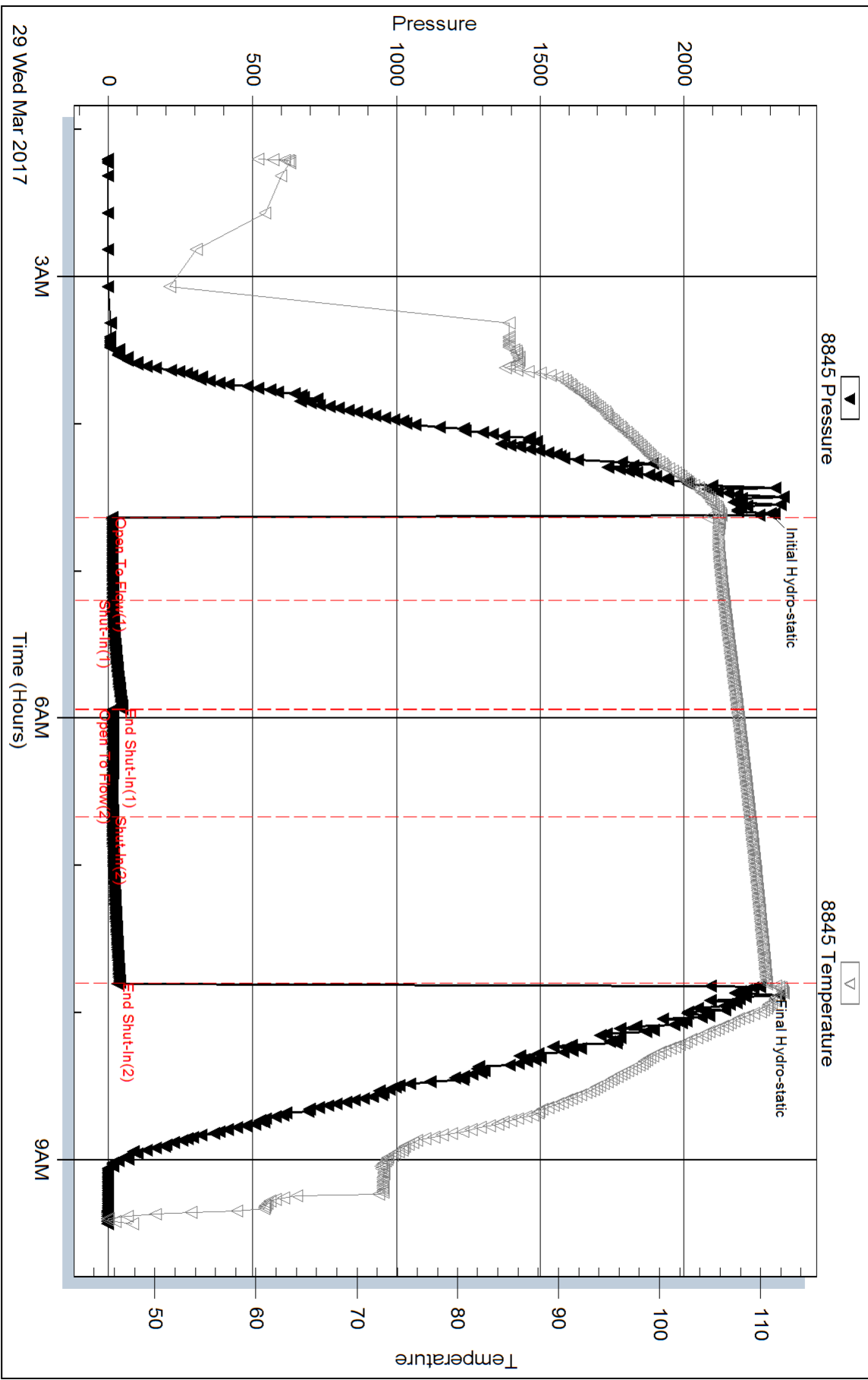
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



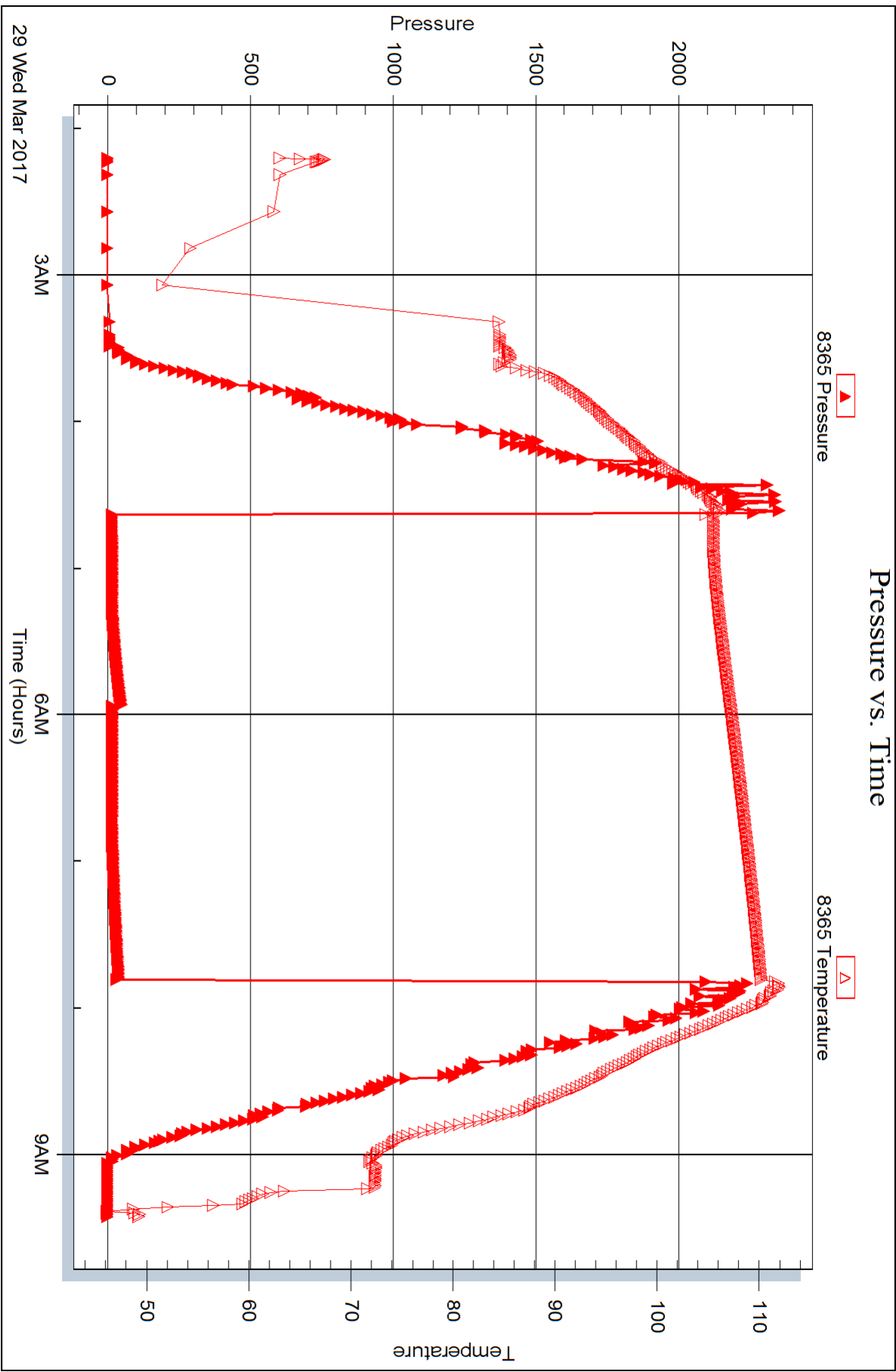
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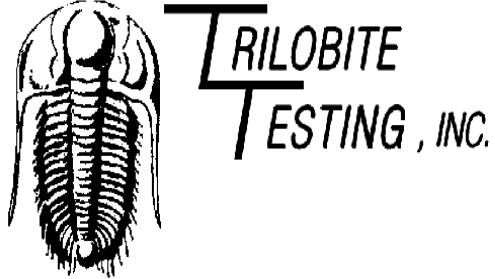
Inside

Cobalt Energy, LLC

Brothers A #2-11

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Tim Lauer

Brothers A #2-11

11 20s 33w Scott,KS

Start Date: 2017.03.29 @ 19:59:00

End Date: 2017.03.30 @ 04:36:15

Job Ticket #: 63767 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.30 @ 15:19:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC
 PO Box 8037
 Wichita, KS 67208
 ATTN: Tim Lauer

11 20s 33w Scott, KS
Brothers A #2-11
 Job Ticket: 63767 **DST#: 3**
 Test Start: 2017.03.29 @ 19:59:00

GENERAL INFORMATION:

Formation: **Morrow Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:56:15
 Time Test Ended: 04:36:15
 Interval: **4560.00 ft (KB) To 4637.00 ft (KB) (TVD)**
 Total Depth: 4637.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2957.00 ft (KB)
 2952.00 ft (CF)
 KB to GR/CF: 5.00 ft

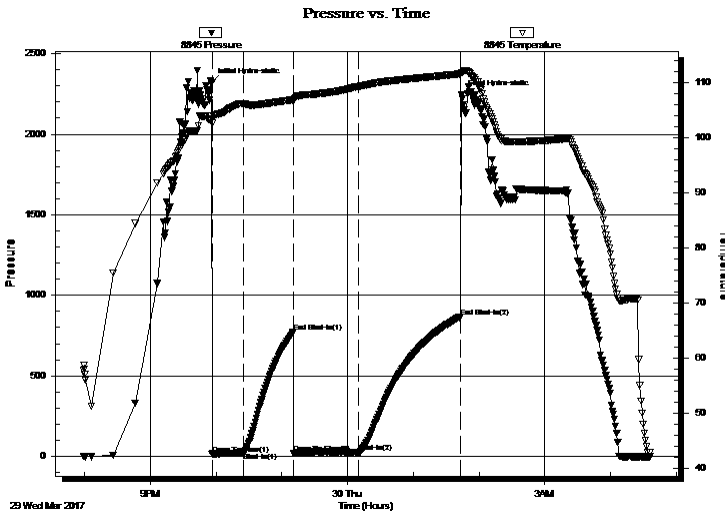
Serial #: 8845

Outside

Press@RunDepth: 24.00 psig @ 4561.00 ft (KB)
 Start Date: 2017.03.29 End Date: 2017.03.30
 Start Time: 19:59:05 End Time: 04:36:15
 Capacity: 8000.00 psig
 Last Calib.: 2017.03.30
 Time On Btm: 2017.03.29 @ 21:56:00
 Time Off Btm: 2017.03.30 @ 01:43:45

TEST COMMENT: IF: 1/2" blow.
 IS: No return.
 FF: Surface blow, died @ 20 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2319.08	103.11	Initial Hydro-static
1	14.42	102.65	Open To Flow (1)
29	21.83	106.21	Shut-In(1)
75	769.50	106.92	End Shut-In(1)
75	20.57	106.50	Open To Flow (2)
134	24.00	109.29	Shut-In(2)
227	866.19	111.57	End Shut-In(2)
228	2243.56	111.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100m	0.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC

11 20s 33w Scott, KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63767

DST#: 3

ATTN: Tim Lauer

Test Start: 2017.03.29 @ 19:59:00

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:56:15

Time Test Ended: 04:36:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4560.00 ft (KB) To 4637.00 ft (KB) (TVD)

Reference Elevations: 2957.00 ft (KB)

Total Depth: 4637.00 ft (KB) (TVD)

2952.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 4561.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.29

End Date:

2017.03.30

Last Calib.:

2017.03.30

Start Time: 19:59:05

End Time:

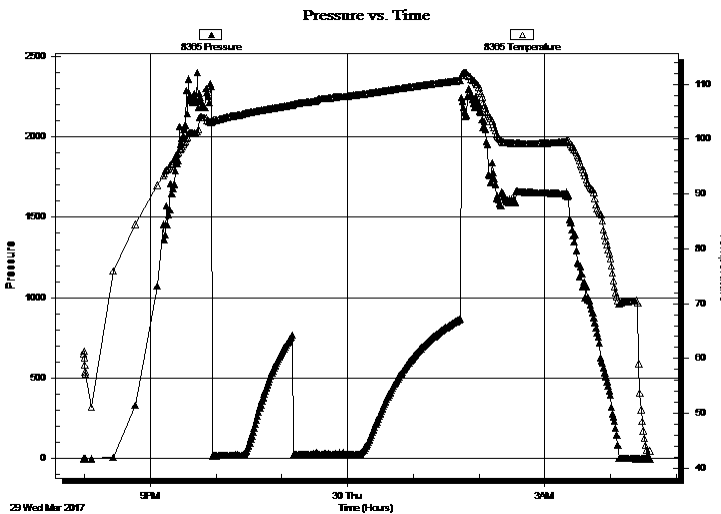
04:36:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/2" blow.
IS: No return.
FF: Surface blow, died @ 20 min.
FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100m	0.10

* 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

11 20s 33w Scott, KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63767

DST#: 3

ATTN: Tim Lauer

Test Start: 2017.03.29 @ 19:59:00

Tool Information

Drill Pipe:	Length: 4448.00 ft	Diameter: 3.80 inches	Volume: 62.39 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 63.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4560.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	97.00 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			4541.00	
Shut In Tool	5.00			4546.00	
Hydraulic tool	5.00			4551.00	
Packer	5.00			4556.00	20.00 Bottom Of Top Packer
Packer	4.00			4560.00	
Stubb	1.00			4561.00	
Recorder	0.00	8365	Inside	4561.00	
Recorder	0.00	8845	Outside	4561.00	
Perforations	8.00			4569.00	
Change Over Sub	1.00			4570.00	
Drill Pipe	63.00			4633.00	
Change Over Sub	1.00			4634.00	
Bullnose	3.00			4637.00	77.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

11 20s 33w Scott, KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63767

DST#: 3

ATTN: Tim Lauer

Test Start: 2017.03.29 @ 19:59:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

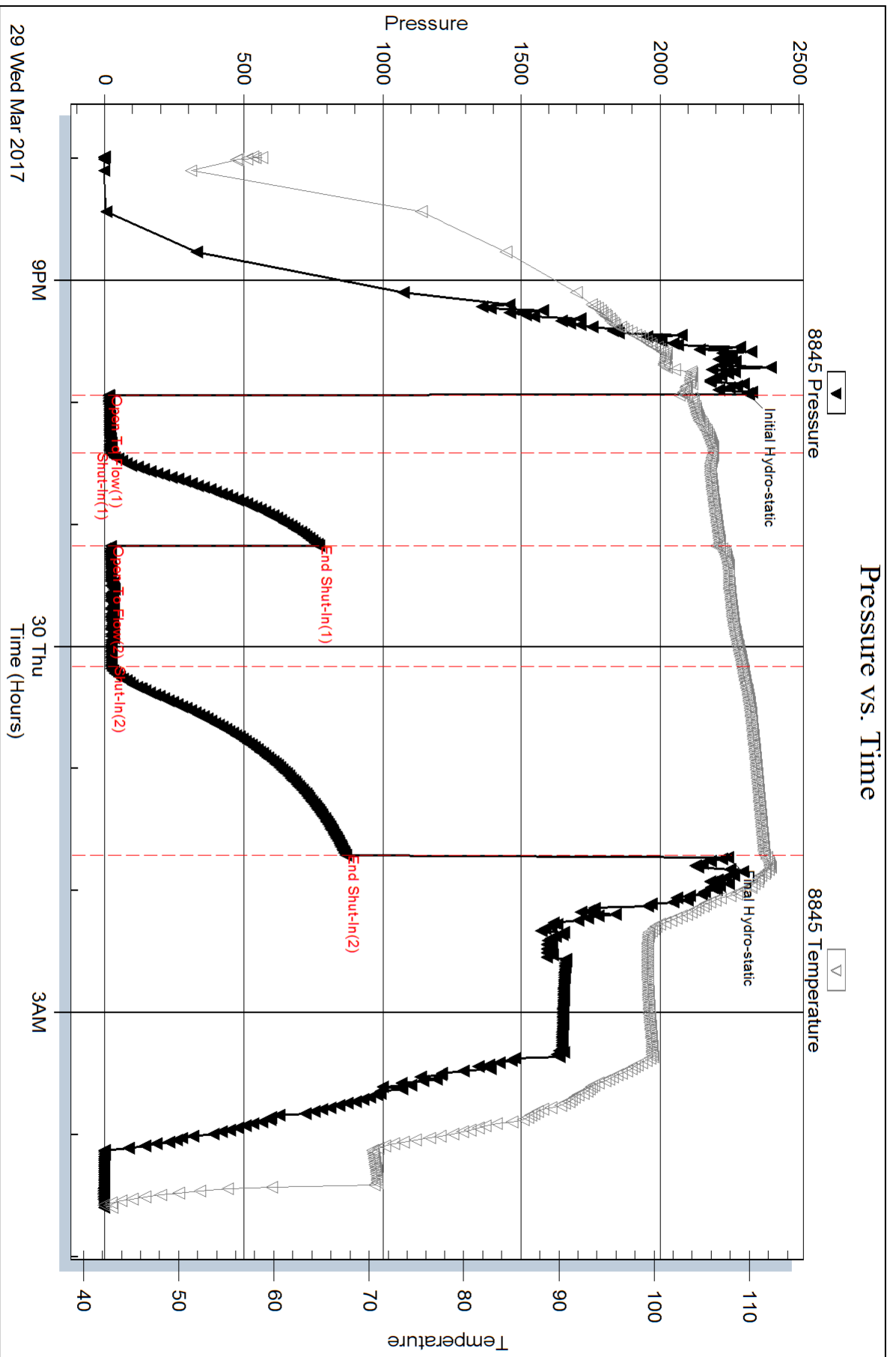
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



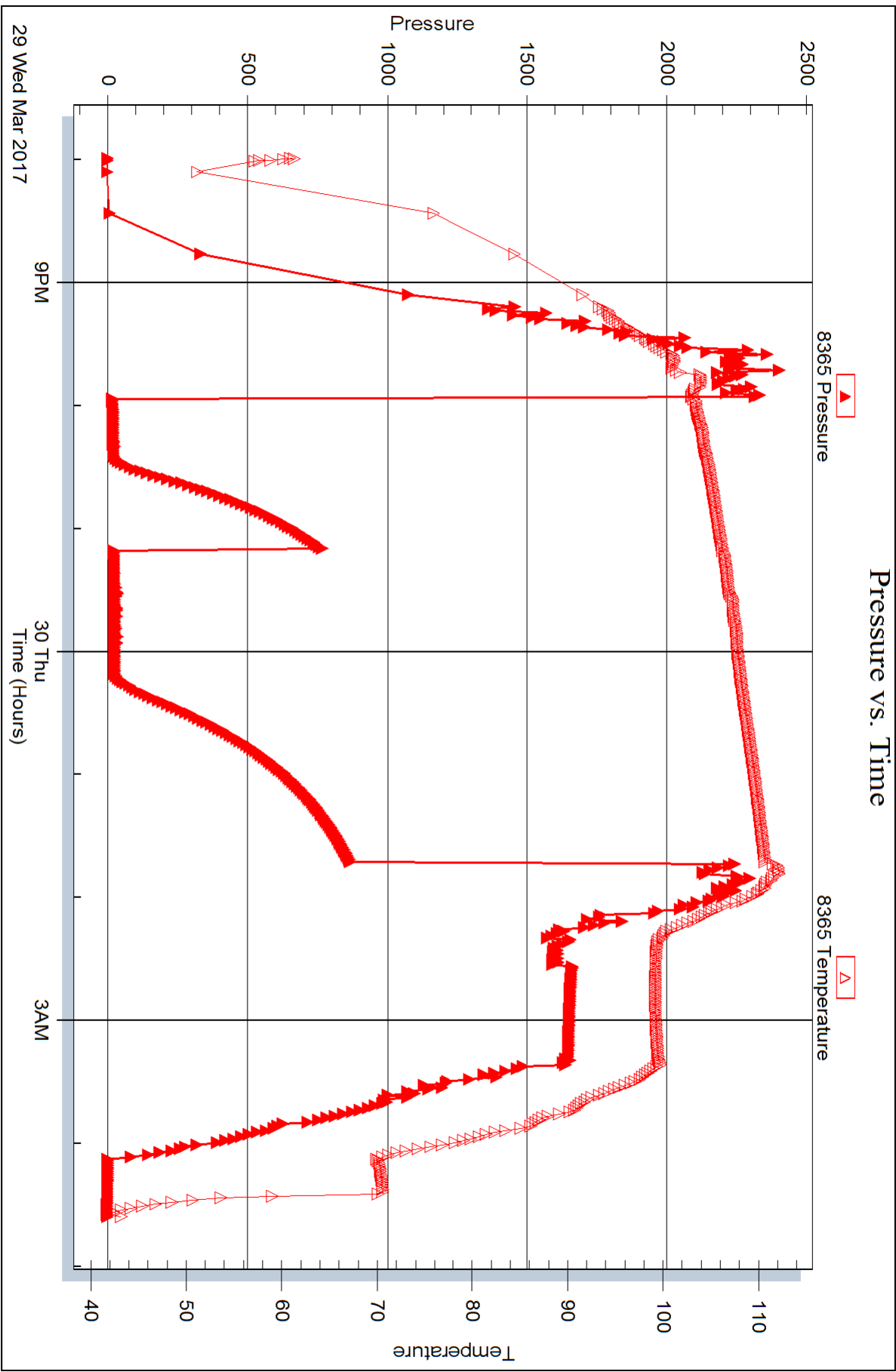
Serial #: 8365

Inside

Cobalt Energy, LLC

Brothers A #2-11

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Tim Lauer

Brothers A #2-11

11 20s 33w Scott,KS

Start Date: 2017.03.31 @ 00:55:00

End Date: 2017.03.31 @ 08:29:45

Job Ticket #: 63768 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.31 @ 13:35:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC
 PO Box 8037
 Wichita, KS 67208
 ATTN: Tim Lauer

11 20s 33w Scott, KS
Brothers A #2-11
 Job Ticket: 63768 **DST#: 4**
 Test Start: 2017.03.31 @ 00:55:00

GENERAL INFORMATION:

Formation: **Krider**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:15:00
 Time Test Ended: 08:29:45
 Interval: **2585.00 ft (KB) To 2625.00 ft (KB) (TVD)**
 Total Depth: 4750.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2957.00 ft (KB)
 2952.00 ft (CF)
 KB to GR/CF: 5.00 ft

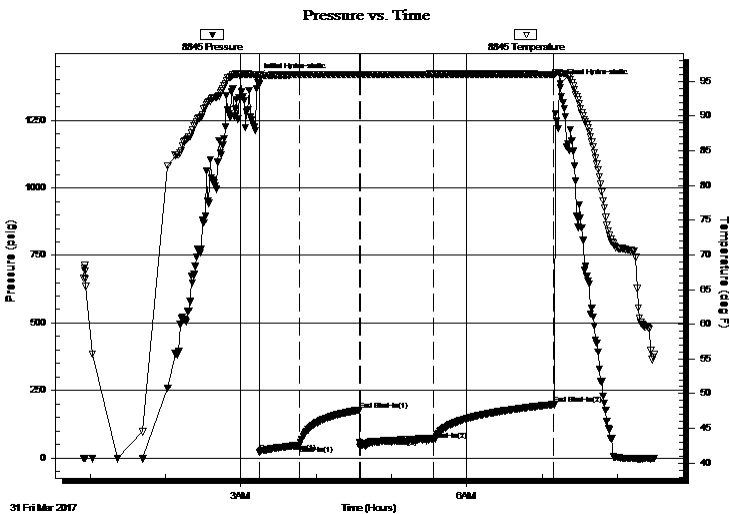
Serial #: 8845

Inside

Press@RunDepth: 66.78 psig @ 2586.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.31 End Date: 2017.03.31 Last Calib.: 2017.03.31
 Start Time: 00:55:05 End Time: 08:29:44 Time On Btm: 2017.03.31 @ 03:13:00
 Time Off Btm: 2017.03.31 @ 07:14:30

TEST COMMENT: IF: BOB @ 3 min.
 IS: No return.
 FF: BOB @ 1 1/2 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1408.85	95.99	Initial Hydro-static
2	20.08	95.19	Open To Flow (1)
34	46.59	95.96	Shut-In(1)
82	176.74	96.01	End Shut-In(1)
82	38.51	96.00	Open To Flow (2)
141	66.78	96.02	Shut-In(2)
237	197.97	96.02	End Shut-In(2)
242	1386.36	96.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mud 100m	0.44

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC

11 20s 33w Scott, KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63768

DST#: 4

ATTN: Tim Lauer

Test Start: 2017.03.31 @ 00:55:00

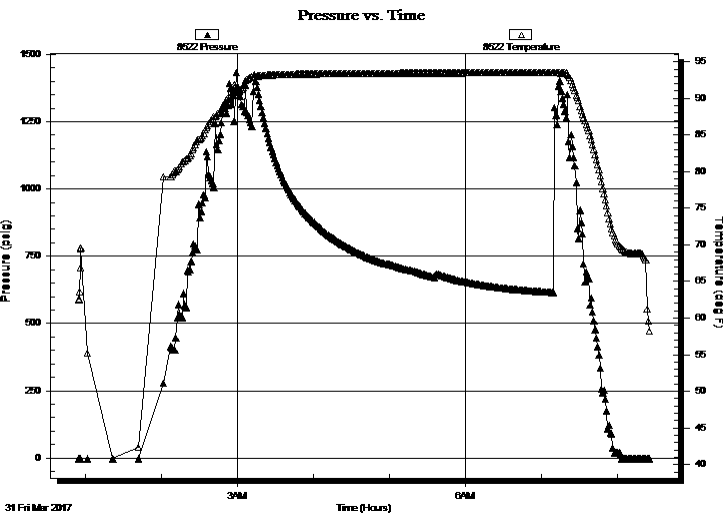
GENERAL INFORMATION:

Formation: **Krider**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:15:00
 Tester: Bradley Walter
 Time Test Ended: 08:29:45
 Unit No: 78
Interval: 2585.00 ft (KB) To 2625.00 ft (KB) (TVD)
 Reference Elevations: 2957.00 ft (KB)
 Total Depth: 4750.00 ft (KB) (TVD)
 2952.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8522 Below (Straddle)

Press@RunDepth: psig @ 2633.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2017.03.31
 End Date: 2017.03.31
 Last Calib.: 2017.03.31
 Start Time: 00:55:05
 End Time: 08:26:29
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB @ 3 min.
 IS!: No return.
 FF: BOB @ 1 1/2 min.
 FS!: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mud 100m	0.44

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

11 20s 33w Scott, KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63768

DST#: 4

ATTN: Tim Lauer

Test Start: 2017.03.31 @ 00:55:00

GENERAL INFORMATION:

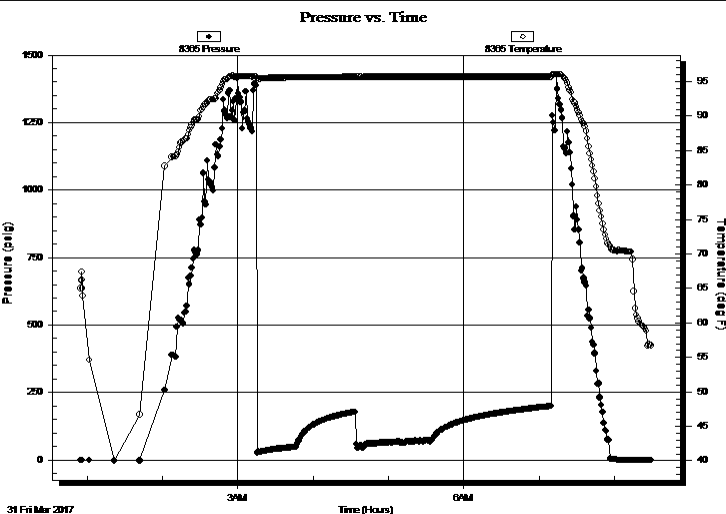
Formation: **Krider**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:15:00
 Tester: Bradley Walter
 Time Test Ended: 08:29:45
 Unit No: 78
 Interval: **2585.00 ft (KB) To 2625.00 ft (KB) (TVD)**
 Reference Elevations: 2957.00 ft (KB)
 Total Depth: 4750.00 ft (KB) (TVD)
 2952.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8365

Outside

Press@RunDepth: psig @ 2586.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.31 End Date: 2017.03.31 Last Calib.: 2017.03.31
 Start Time: 00:55:05 End Time: 08:29:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB @ 3 min.
 IS: No return.
 FF: BOB @ 1 1/2 min.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mud 100m	0.44

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
 PO Box 8037
 Wichita, KS 67208
 ATTN: Tim Lauer

11 20s 33w Scott, KS
Brothers A #2-11
 Job Ticket: 63768 **DST#: 4**
 Test Start: 2017.03.31 @ 00:55:00

Tool Information

Drill Pipe:	Length: 2462.00 ft	Diameter: 3.80 inches	Volume: 34.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 35.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	2585.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	111.00 ft			
Tool Length:	131.00 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			2566.00	
Shut In Tool	5.00			2571.00	
Hydraulic tool	5.00			2576.00	
Packer	5.00			2581.00	20.00 Bottom Of Top Packer
Packer	4.00			2585.00	
Stubb	1.00			2586.00	
Recorder	0.00	8845	Inside	2586.00	
Recorder	0.00	8365	Outside	2586.00	
Perforations	35.00			2621.00	
Blank Off Sub	1.00			2622.00	111.00 Tool Interval
Packer	3.00			2625.00	
Blank Spacing	1.00			2626.00	
Hookw all tool	5.00			2631.00	
Perforations	1.00			2632.00	
Change Over Sub	1.00			2633.00	
Recorder	0.00	8522	Below	2633.00	
Drill Pipe	63.00			2696.00	1000130.00 Bottom Packers & Anchor
Total Tool Length:	131.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

11 20s 33w Scott, KS

PO Box 8037
Wichita, KS 67208

Brothers A #2-11

Job Ticket: 63768

DST#: 4

ATTN: Tim Lauer

Test Start: 2017.03.31 @ 00:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Mud 100m	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

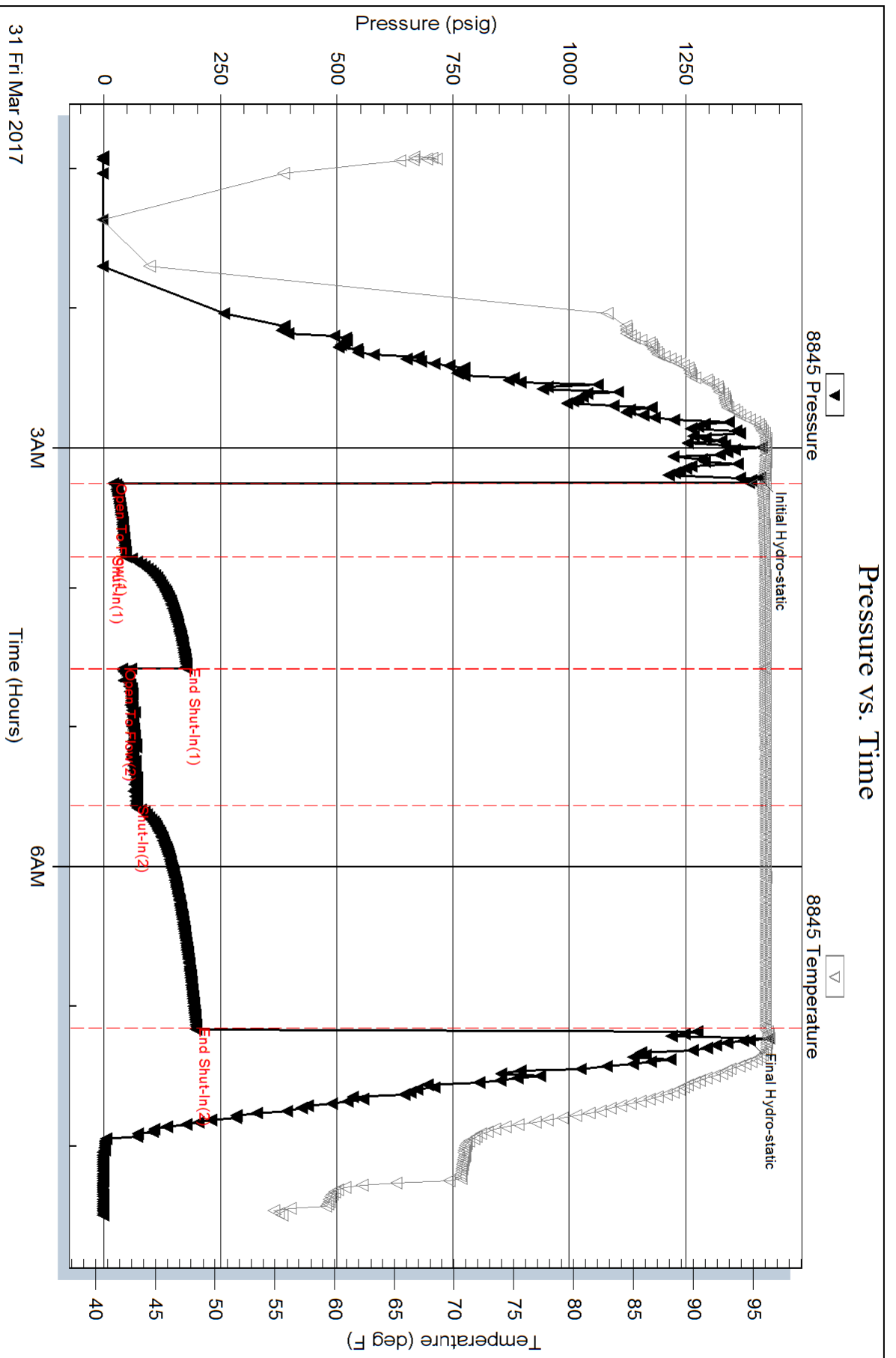
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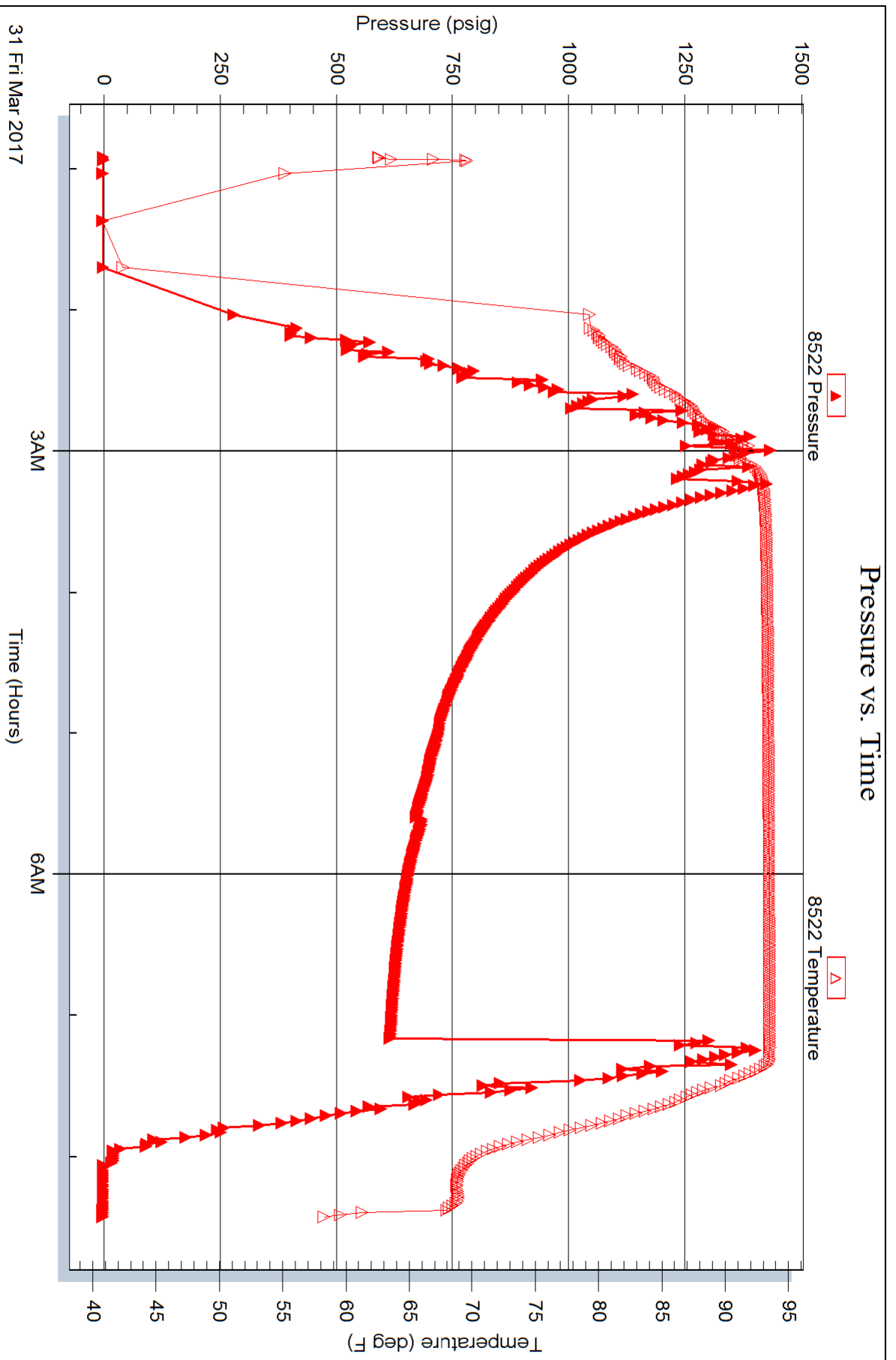
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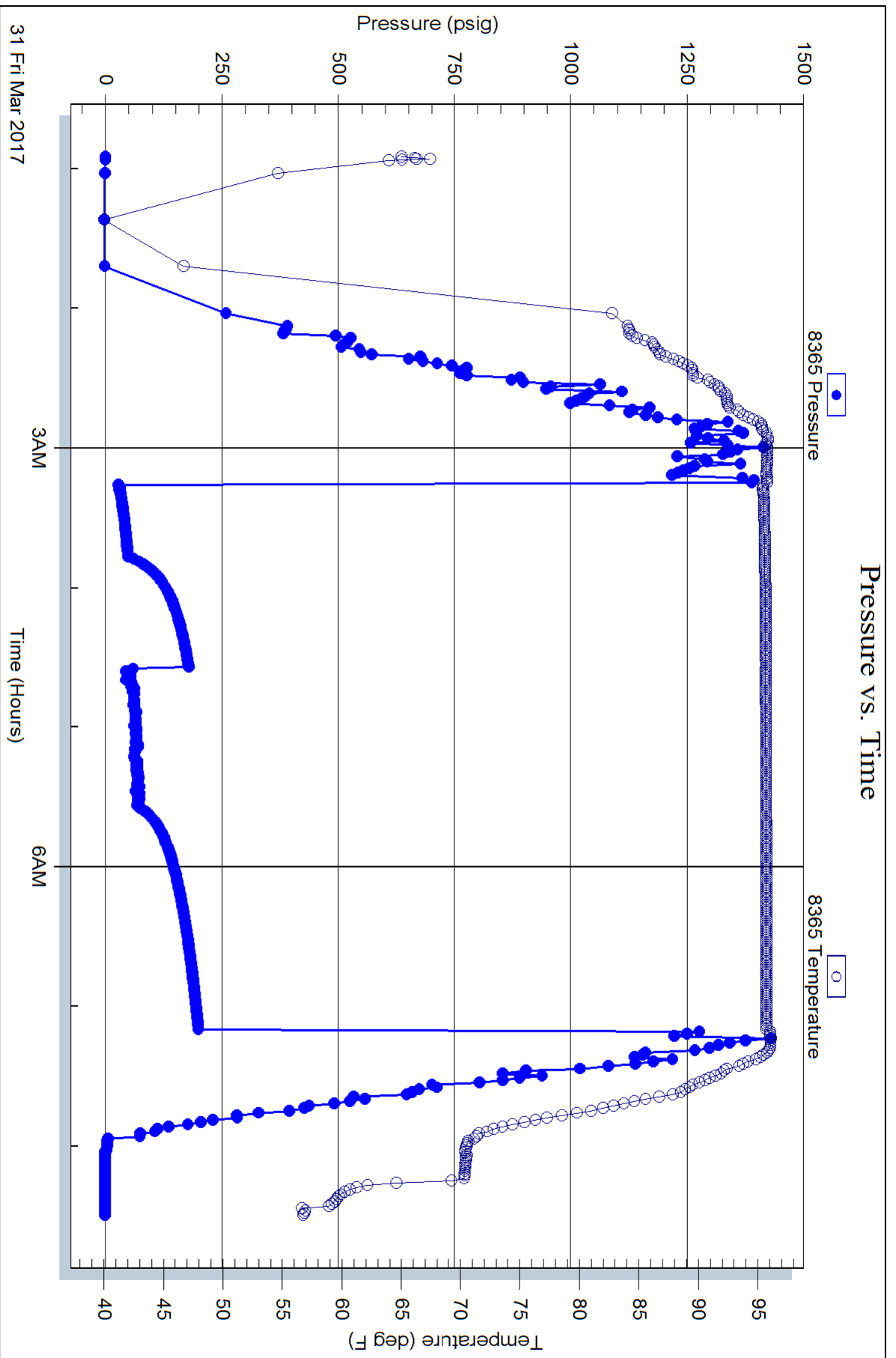
Laboratory Location:

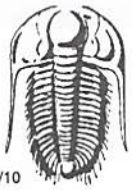
Recovery Comments:

Pressure vs. Time









TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63765**

Well Name & No. Brothers A #2-11 Test No. 1 Date 3/28/2017
 Company Cobalt Energy, LLC Elevation 2957 KB 2952 GL
 Address PO Box 4037 Wichita, KS 67208
 Co. Rep / Geo. Tim Laver Rig WW 10
 Location: Sec. 11 Twp. 20s Rge. 33w Co. Scott State KS

Interval Tested 4315 - 4352 Zone Tested Marmaton
 Anchor Length 37' Drill Pipe Run 4200 Mud Wt. 9.4
 Top Packer Depth 4310 Drill Collars Run 124 Vis 57
 Bottom Packer Depth 4315 Wt. Pipe Run 0 WL 6.4
 Total Depth 4352 Chlorides 2200 ppm System LCM 2#
 Blow Description IF Surface blow, receded to a weak surface blow.
ISI No return.
FF No blow
FSI No return.

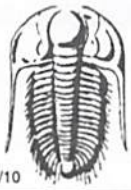
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 111 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2193</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2015</u>
(B) First Initial Flow <u>11</u>	<input type="checkbox"/> Jars	T-Started <u>2109</u>
(C) First Final Flow <u>12</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2312</u>
(D) Initial Shut-In <u>241</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0210</u>
(E) Second Initial Flow <u>13</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0429</u>
(F) Second Final Flow <u>14</u>	<input checked="" type="checkbox"/> Mileage <u>29RT</u> 21.75	Comments
(G) Final Shut-In <u>301</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2184</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>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1171.75</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1171.75</u>	

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63766**

Well Name & No. Brothers A #2-11 Test No. 2 Date 3/29/2017
 Company Cobalt Energy, LLC Elevation 2957 KB 2952 GL
 Address PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Tim Laver Rig WW #10
 Location: Sec. 11 Twp. 20 S Rge. 33 W Co. Scott State KS

Interval Tested 4490 - 4560 Zone Tested Cherokee Lime
 Anchor Length 70' Drill Pipe Run 4355 Mud Wt. 9.4
 Top Packer Depth 4485 Drill Collars Run 124 Vis 52
 Bottom Packer Depth 4490 Wt. Pipe Run 0 WL 7.2
 Total Depth 4560 Chlorides 2800 ppm System LCM 2[#]
 Blow Description IF: 1/2" blow
TSL: No return.
FF: No blow
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud 100m</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 5 BHT 11 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2299 Test 1150 T-On Location 0100
 (B) First Initial Flow 13 Jars _____ T-Started 0212
 (C) First Final Flow 14 Safety Joint _____ T-Open 0438
 (D) Initial Shut-In 47 Circ Sub 1/2 T-Pulled 0742
 (E) Second Initial Flow 14 Hourly Standby _____ T-Out 0926
 (F) Second Final Flow 14 Mileage 29 RT 21.75 Comments _____
 (G) Final Shut-In 38 Sampler _____
 (H) Final Hydrostatic 2262 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1171.75
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1171.75

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63767**

Well Name & No. Brothers A #2-11 Test No. 3 Date 3/30/2017
 Company Cobalt Energy, LLC Elevation 2957 KB 2952 GL
 Address PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Tim Laver Rig WW 10
 Location: Sec. 11 Twp. 20S Rge. 33W Co. Scott State Ks

Interval Tested 4560 - 4637 Zone Tested Narrow Sand
 Anchor Length 77 Drill Pipe Run 4448 Mud Wt. 9.3
 Top Packer Depth 4555 Drill Collars Run 124 Vis 63
 Bottom Packer Depth 4560 Wt. Pipe Run Ø WL 7.2
 Total Depth 4637 Chlorides 2800 ppm System LCM 1.5[#]

Blow Description IF 1/2" blow
ISF No return.
FF Surface blow, dried @ 20 min.
FSF

Rec	Feet of	%gas	%oil	%water	%mud
20	MUD			100	

Rec Total 20 BHT 111 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2319</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1908</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>NO</u>	T-Started <u>1959</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2155</u>
(D) Initial Shut-In <u>770</u>	<input checked="" type="checkbox"/> Circ Sub <u>11</u>	T-Pulled <u>0140</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0436</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>29 RT x2</u> 43.50	Comments <u>loaded tools 13:35 3/30</u>
(G) Final Shut-In <u>866</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2244</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>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1193.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1193.50</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63768**

Well Name & No. Brothers A #2-11 Test No. 4 Date 3/31/2017
 Company Cobalt Energy, LLC Elevation 2957 KB 2952 GL
 Address PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Tim Lauer Rig WW #10
 Location: Sec. 11 Twp. 20 S Rge. 33 W Co. Scott State KS

Interval Tested 2585 - 2625 Zone Tested Kvider
 Anchor Length 40 - Drill Pipe Run 2462 Mud Wt. 9.4
 Top Packer Depth 2580/2585 - 2625 shale Drill Collars Run 124 Vis 55
~~Bottom~~ Packer Depth 2625 Wt. Pipe Run 0 WL 7.2
 Total Depth 4750 Chlorides 2900 ppm System LCM 2#
 Blow Description IF BOB@ 3 min
ISI No return
FF BOB@ 1 1/2 min
FSL No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>mod 100 m</u>				
	<u>did not detect</u>				
	<u>the gas</u>				

Rec Total 90 BHT 96 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1409</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2355</u>
(B) First Initial Flow <u>20</u>	<input type="checkbox"/> Jars	T-Started <u>0055</u>
(C) First Final Flow <u>47</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0315</u>
(D) Initial Shut-In <u>177</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>0700</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0830</u>
(F) Second Final Flow <u>67</u>	<input checked="" type="checkbox"/> Mileage <u>29 RT</u> 21.75	Comments
(G) Final Shut-In <u>198</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1386</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input checked="" type="checkbox"/> Extra Packer <u>Hook Wall 500</u>	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>2521.75</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2521.75</u>	

Approved By _____ Our Representative [Signature]

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COMPANY & WELL Cobalt #2-11 Brothers 'A'
LOCATION 2548' FNL, 1504' FWL, NW/4
SEC 11 **TWP** 20S **RGE** 33W
COUNTY Scott **STATE** Ks

LEASE Brothers 'A' #2-11
FIELD
LOCATION 2548' FNL, 1504' FWL
SEC 11 **TWP** 20S **RGE** 33W
COUNTY Scott **STATE** Ks

CONTRACTOR WW Drilling Rig #10
SPUD 3-22-2017 **COMP** 3-31-2017
RTD 4750 **LTD** 4750
MUD UP 3500 **TYPE** Mud Chemical

SAMPLES SAVED FROM 2500 **TO** RTD
DRILLING TIME KEPT FROM 2500 **TO** RTD
SAMPLES EXAMINED FROM 2500 **TO** RTD
GEOLOGICAL SUPERVISION FROM 2120 **TO** RTD
GEOLOGIST ON WELL Tim J. Lauer

FORMATION TOPS **ELECTRIC LOG** **SAMPLE LOG**

Anhydrite	2120 (-4828)	2120 (-4828)
Kriber	2609 (-3488)	2608 (-3489)
Heebner	3808 (-8511)	3803 (-8486)
Cherokee	3854 (-8971)	3851 (-8984)
Lansing	4452 (-14355)	4454 (-14347)
Morrow Shale	4575 (-15181)	4578 (-15178)
Mississippi	4658 (-16121)	4657 (-16101)
Total Depth	4750 (-1793)	4750 (-1793)

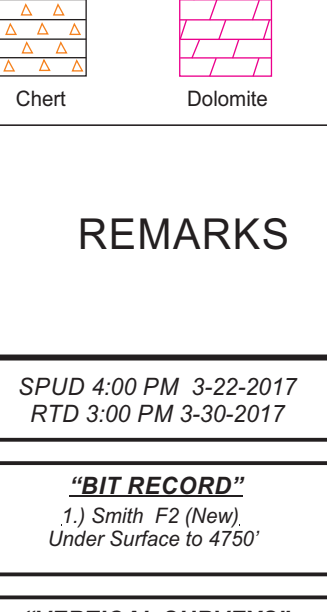
ELEVATIONS KB 2957
DF
GL 2952

Measurements Are All From 2957 KB

CASING
 CONDUCTOR SURFACE 8 5/8" @ 217'
 PRODUCTION none

ELECTRICAL SURVEYS
 Pioneer Stack - DCPL DIL ML
 Engr. Dan Schmidt

38 58654388
 -100766522



REMARKS
 Due to drill stem test results, and log evaluation, operator elected to plug and abandon the location without further testing the location.

Respectfully submitted,
 [Signature]
 Tim J. Lauer
 3/31/2017

LEGEND

Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite
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DEPTH (FEET)	DRILLING TIME IN MINUTES PER FOOT	SAMPLE DESCRIPTION	REMARKS
2560		Sh; most red shale beds, brick red, some md-dk gry, dirty, gritty bt occ Ls; fragments, gry, vlnsh, dns, NS	SPUD 4:00 PM 3-22-2017 RTD 3:00 PM 3-30-2017
2580		Sh; md-dk gry, dirty, gritty bt, 50% red shale beds, brick red, occ Ls and Anhy fragments.	"BIT SURFACE" (1) Shows F2 (New) Under Surface to 4750'
2600		No spl (slough) after replaced head on mud pump	"VERTICAL SURVEYS" 1" @ 217' 1 1/4" @ 1203' 1 1/4" @ 1864' 1 1/4" @ 2402' 1 1/2" @ 2908' 1" @ 3412' 1" @ 3950' 1 1/4" @ 4352' 1" @ 4750'
2620		Dolo; md gry, vfn-frn, sub-sucor, bt, most dns, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	3-22-2017 - MIRRT, RURT Prep to Spud
2640		Dolo; md gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	3-23-2017 - 7:00 AM Drig @ 664' set 8-5/8" @ 217'
2660		Dolo; md gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	3-24-2017 - 7:00 AM Drig @ 2455'
2680		Sh; md-dk gry, dirty, gritty bt, pyritic IP, scat red shale and anhy, some dolo; gry, vlnsh, dns, NS, n. odor	3-25-2017 - 7:00 AM Drig @ 2935'
2700		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	3-26-2017 - 7:00 AM Drig @ 3615'
2720		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	3-27-2017 - 7:00 AM Drig @ 4936'
2740		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	3-28-2017 - 7:00 AM Drig @ 4259' after DST (1)
2760		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	3-29-2017 - 7:00 AM Running DST (2)
2780		Sh; md-dk gry, dirty, gritty bt, pyritic IP, AA, abund red shale	3-30-2017 - 7:00 AM Drig @ 5841' after DST (3)
2800		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	3-31-2017 - 7:00 AM RTD @ 7500' Run Pioneer OH Elong Running Hookwall Test (4) to evaluate Kriber gas zone
2820		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	3-31-2017 - 10:00 AM Prepare to Plug and Abdn
2840		Sh; md-dk gry, dirty, gritty bt, abund red shale	Call Point 1500' 3:00 PM 3-23-2017 Geologist on location 2410' 11:00 PM 3-23-2017
2860		Sh; md-dk gry, dirty, gritty bt, abund red shale	Rig check at 2870 (native fluid); vis: 31 wt: 9.5 LCM: 2#
2880		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	DST (4) 2585'-2625' Hookwall Test 30-45-60-90 Blow strong, 80% in 1/2 min on FFP; (blow less strong at end of FFP; no gas to surface)
2900		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	90' Mud, NS IHP: 1439 FFP: 39-67 I/FP: 30-47 FSP: 196 ISIP: 177 FHP: 1386 Temp: 96F Chlorides: 2,800 PPM DST: NA Re = NA Gravelly = NA Both Shut-in curves break over.
2920		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Rig check at 2787 (native fluid); vis: 34 wt: 9.3 LCM: 3#
2940		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Mud Check at 3002 (native fluid); vis: 31 wt: 9.5 LCM: 2# 3005 (native fluid); vis: 31 wt: 9.4 LCM: 2#
2960		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Hole took an estimated 100 bbl of mud while drilling at 3220. Mix LCM and Mud up at 3220
2980		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Mud Check at 3681; vis: 63 wt: 8.9 Chlor: 2,100 LCM: 2# Ph: 11.5 WL: 6.4
3000		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Rig check at 3755; vis: 65 wt: 8.9 LCM: 3#
3020		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Mud Check at 4274; vis: 57 wt: 9.4 Chlor: 2,200 LCM: 2# Ph: 11.0 WL: 6.4
3040		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Short Trip 30 Stands Pull 30-700' over - Stands 2-13
3060		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	DST (1) 4315'-4352' 30-45-60-90 Blow: weak surface blow-through I/FP; no blowback on ISIP; no blowback on FSP
3080		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	5' Mud, NS IHP: 2193 FFP: 13-14 I/FP: 11-12 FSP: 301 ISIP: 241 FHP: 2184 Temp: 111F Chlorides: 2,200 PPM DST: NA Re = NA Gravelly = NA
3100		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Mud Check at 4372; vis: 63 wt: 9.5 Chlor: 2,800 LCM: 2# Ph: 10.0 WL: 7.2
3120		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Reduce Pump pressure from 850# to 725# between 4560' and 4675'
3140		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	DST (3) 4560'-4637' 30-45-60-90 Blow: weak 1/2" blow thru-out I/FP; 1/4" immediate surge, seal flow 10" on FFP
3160		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	20' Mud, NS (0% gas, 0% oil, 100% mud, 0% wt) IHP: 2319 FFP: 21-24 I/FP: 14-22 FSP: 866 ISIP: 770 FHP: 2244 Temp: 111F Chlorides: 2,800 PPM DST: NA Re = NA
3180		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Mud Check at 4560' after DST - vis: 48 wt: 9.5 Chlor: 2,800 LCM: 2# Ph: 9.5 WL: 8.0
3200		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	Mud Check at 4641' after DST - vis: 48 wt: 9.5 Chlor: 2,800 LCM: 2# Ph: 9.5 WL: 8.0
3220		Dolo; md-dk gry, vfn-frn, sub-sucor, bt, scat fr IXLN por, NSGB, n. flor, n. strn, n. odor.	4750 Rotary TD reached 3:00 PM 3-30-2017

COMPANY & WELL Cobalt #2-11 Brothers 'A'
LOCATION 2548' FNL, 1504' FWL, NW/4
SEC 11 **TWP** 20S **RGE** 33W
COUNTY Scott **STATE** Ks

ELEVATIONS KB 2957
GL 2952

