

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1241653  
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: \_\_\_\_\_

1241653

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

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

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<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> <i>(Submit ACO-4)</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	Reinecker "A" 1-17
Doc ID	1241653

Tops

Name	Top	Datum
Anhydrite	2241	420
Heebner	3881	-1220
Lansing	3925	-1264
Muncie Creek	4045	-1384
Stark	4115	-1454
BKC	4165	-1504
Pawnee	4313	-1652
Ft Scott	4387	-1726
Cherokee	4413	-1752
Mississippian	4487	-1826



# ALLIED OIL & GAS SERVICES, LLC 063619

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Ceres Bend, KS

DATE <u>2-3-15</u>	SEC. <u>17</u>	TWP. <u>11S</u>	RANGE <u>26W</u>	CALLED OUT	ON LOCATION <u>4:20 PM</u>	JOB START <u>6:30</u>	JOB FINISH <u>7:15 PM</u>
LEASE <u>Rejecker A</u>	WELL # <u>1-17</u>	LOCATION <u>Quinter N to stop sign</u>	COUNTY <u>Leone</u>	STATE <u>KS</u>			
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>1N 1E 1/4X W1A70</u>				

CONTRACTOR Pickrell #10  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. \_\_\_\_\_  
 CASING SIZE 8 5/8 DEPTH 267.50  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 15 FT  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 16.12 bbls Fresh water

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 175 SKS Class A  
34.00

COMMON	<u>175</u>	@ <u>17.90</u>	<u>3,132.50</u>
POZMIX		@	
GEL		@	
CHLORIDE	<u>494</u>	@ <u>1.10</u>	<u>543.40</u>
ASC		@	
		@	<u>3675.90</u>
		@ <u>42%</u>	<u>1,543.88</u>
		@	
		@	
		@	
		@	
HANDLING	<u>184.77</u>	@ <u>2.48</u>	<u>458.24</u>
MILEAGE	<u>381.23</u>	@ <u>2.75</u>	<u>1048.38</u>
TOTAL			

**EQUIPMENT**

PUMP TRUCK # <u>394</u>	CEMENTER <u>Dustin Chambers</u>
BULK TRUCK # <u>671-112</u>	HELPER <u>Tosh. 1390C</u>
BULK TRUCK # _____	DRIVER <u>Kevin Weighous</u>
BULK TRUCK # _____	DRIVER _____

**REMARKS:**

Break circulation with Rig and pump 5 bbls Fresh water ahead  
run 175 SKS cement  
Displace 16.12 bbls Fresh water  
Cement did for cure  
plug Down 11:55 PM  
Rig Down

**SERVICE**

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>1512.25</u>
EXTRA FOOTAGE	@	
MILEAGE <u>Hum 45</u>	@ <u>7.70</u>	<u>346.50</u>
MANIFOLD	@	
<u>Hum 45</u>	@ <u>4.40</u>	<u>198.00</u>
	@	

CHARGE TO: Cobalt Energy  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 3,563.37  
42% 1,496.62

**PLUG & FLOAT EQUIPMENT**

_____	@	
_____	@	
_____	@	
_____	@	
_____	@	

TOTAL \_\_\_\_\_

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 X Mike Klein  
 SIGNATURE X Mike Klein  
Thank You!

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 7,239.21  
 DISCOUNT 3,040.42 IF PAID IN 30 DAYS  
4,198.79



GEOLOGIST'S REPORT  
DRILL TIME &  
SAMPLE LOG

COMPANY **COBALT ENERGY, LLC**  
LEASE **Reinecker 'A' #1-17**  
FIELD **Wildcat**

LOCATION **1932' FSL & 1529' FEL**  
SEC. **17** TWP. **11S** RGE. **26W**  
COUNTY **Gove** STATE **KS**  
CONTRACTOR **Pickrell Drilling Co., Rig #10**  
SPUD **02/03/15** COMP **02/12/14**  
RTD **4550'** LTD **4560'**  
MUD UP **3400'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3600'** TO **RTD**  
DRILLING TIME KEPT FROM **3700'** TO **RTD**  
SAMPLES EXAMINED FROM **3700'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3600'** TO **RTD**  
GEOLOGIST ON WELL **Corey N. Baker**

FORMATION TOPS **ELECTRIC LOG**  
Anhydrite **2241' (+420)** **2243' (+418)**  
Base of Anhydrite **2282' (+379)** **2283' (+378)**  
Heebner **3881' (-120)** **3883' (-122)**  
Lansing **3925' (-164)** **3924' (-1263)**  
Stark **4115' (-154)** **4116' (-1457)**  
BKC **4165' (-1504)** **4165' (-1504)**  
Pawnee **4431' (-173)** **4415' (-1754)**  
Fort Scott **4491' (-1730)** **4491' (-1730)**  
Mississippian **4530' (-1889)** **4530' (-1889)**

ELEVATIONS  
KB **2661'**  
DF \_\_\_\_\_  
GL **2654'**  
Measurements Are All From **KB**

CASING  
Conductor **NA**  
Surface **8 5/8" @ 267'**  
Production **None**  
Indicational Surveys  
Dial Indicator, Neutron Density

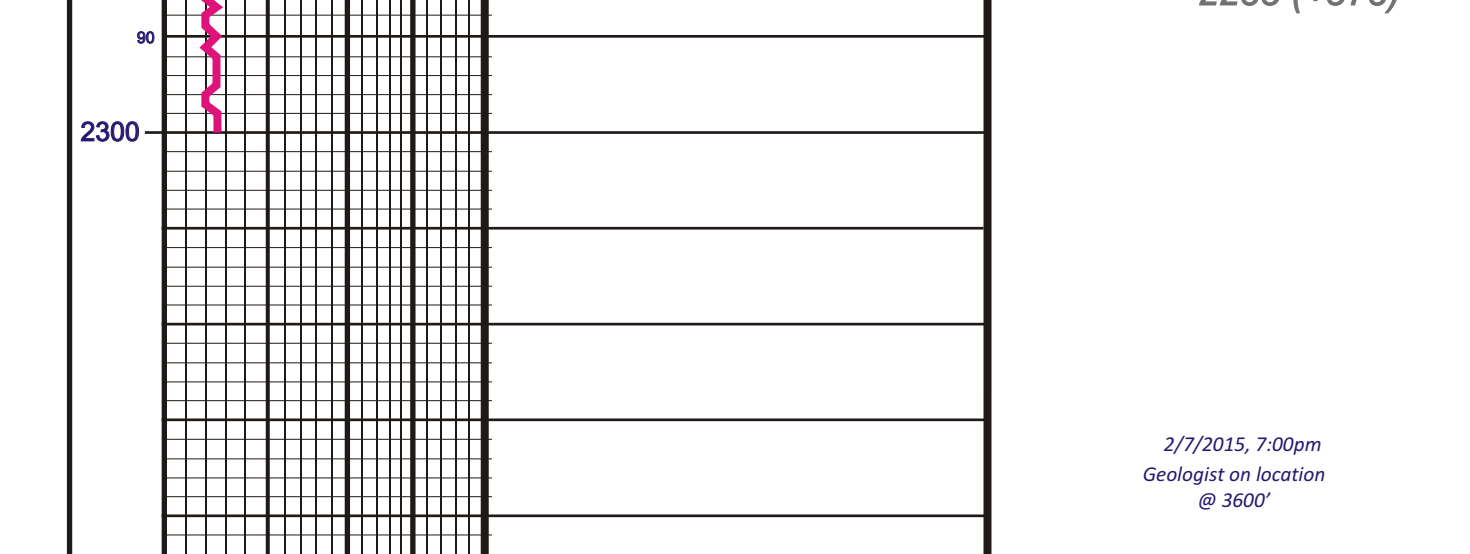
Section  
Pioneer Energy Services

REMARKS **The Reinecker 'A' #1-17 ran as predicted on 3D but lacked any reservoir based on samples, DST's and logs. The shows were tested with negative results and the well was plugged and abandoned as a dry hole.**

Respectfully Submitted,  
**Corey Baker**  
Vice President - Exploration  
Cobalt Energy, LLC

API #15-063-22242-00-00

LEGEND



LITHOLOGY

DEPTH

DRILLING TIME IN MINUTES PER FOOT

OIL SHOWS

SAMPLE DESCRIPTION

REMARKS

**Anhydrite 2243 (+418)**

**Base of Anhydrite 2283 (+378)**

2/7/2015, 7:00pm  
Geologist on location @ 3600'

Mud Check  
Vis: 52  
Weight: 8.8  
LCM: 7#

7:00am, 2/8/2015

Mud-Co Check  
Vis: 49  
Weight: 8.9  
LCM: 2#

**Heebner 3883 (-1222)**

**Lansing 3924 (-1263)**

Mud Check  
Vis: 51  
Weight: 9.1  
LCM: 2#

**DST #1 (2934'-3960') Lansing 'C'**  
Open 30" Shut-in 60" Open 60" Shut-in 90"  
1st Open: Weak blow, built to 3".  
ISI: No blow.  
2nd Open: Surface blow, built to 3 1/4".  
FSI: No blow.  
Rec: 85' Mud Cut Water w/show of oil  
IFP: 17-30W  
FFP: 33-57#  
SIP: 1207-1170#

7:00am, 2/9/2015

Mud-Co Check  
Vis: 60  
Weight: 9.0  
LCM: 3#

**Muncie Creek 4046 (-1385)**

**CFS @ 4072'**

**DST #2 (4046'-4072') Muncie Creek 'H'**  
Open 30" Shut-in 60" Open 60" Shut-in 90"  
1st Open: Surface blow, built to 6".  
ISI: No blow.  
2nd Open: Blow returned in 7 min, built to 6.25".  
FSI: No blow.  
Rec: 2' Clean Oil  
5' SOWCM (10% o, 40% w, 50% m)  
125' MCM (30% o, 70% w)  
132' Total Recovery  
IFP: 19-42#  
FFP: 47-79#  
SIP: 1107-1078#

7:00am, 2/9/2015

Mud-Co Check  
Vis: 58  
Weight: 9.2  
LCM: 2#

**Stark 4116 (-1457)**

**BKC 4165 (-1504)**

**Pawnee 4315 (-1654)**

7:00am, 2/11/2015

Mud-Co Check  
Vis: 66  
Weight: 9.5  
LCM: 2#

**Fort Scott 4391 (-1730)**

**CFS @ 4410'**

**Cherokee Shale 4415 (-1754)**

**Mississippian 4491 (-1830)**

**RTD 4550 (-1889)**  
**LTD 4550 (-1889)**

SAMPLE DESCRIPTION

REMARKS

Company **COBALT ENERGY, LLC** Elevation **2661' KB**

Lease **Reinecker 'A' #1-17**

Location **1932' FSL & 1529' FEL** SEC. **17** TWP. **11S** RGE. **26W**

County **Gove** State **Kansas**



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Corey Baker

**Reinecker " A " 1-17**

**17 11s 26w Gove,KS**

Start Date: 2015.02.08 @ 18:01:00

End Date: 2015.02.09 @ 01:59:00

Job Ticket #: 61395                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.02.12 @ 08:38:36



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**17 11s 26w Gove,KS**

PO Box 8037  
Wichita KS 67208

**Reinecker " A " 1-17**

ATTN: Corey Baker

Job Ticket: 61395

**DST#: 1**

Test Start: 2015.02.08 @ 18:01:00

## GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:59:15

Time Test Ended: 01:59:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

**Interval: 3934.00 ft (KB) To 3960.00 ft (KB) (TVD)**

Reference Elevations: 2665.00 ft (KB)

Total Depth: 3960.00 ft (KB) (TVD)

2657.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8289 Outside**

Press@RunDepth: 56.54 psig @ 3937.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.08

End Date:

2015.02.09

Last Calib.:

2015.02.09

Start Time: 18:01:02

End Time:

01:58:11

Time On Btm:

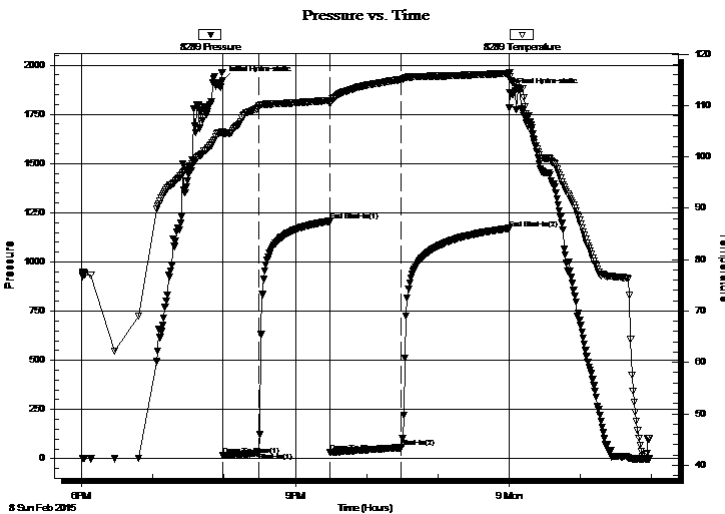
2015.02.08 @ 19:58:45

Time Off Btm:

2015.02.09 @ 00:00:30

**TEST COMMENT:** 30-IFP- Surface Blow Building to 3"  
60-ISIP- No Blow  
60-FFP- Surface Blow in 7min. Building to 3 1/4"  
90-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1921.04	104.89	Initial Hydro-static
1	16.66	104.38	Open To Flow (1)
31	30.20	109.84	Shut-In(1)
91	1206.83	110.97	End Shut-In(1)
91	32.70	110.38	Open To Flow (2)
151	56.54	115.03	Shut-In(2)
241	1170.33	116.23	End Shut-In(2)
242	1861.14	115.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
85.00	MCW 10% m 90% w Show of Oil	1.19

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC

**17 11s 26w Gove,KS**

PO Box 8037  
Wichita KS 67208

**Reinecker " A " 1-17**

Job Ticket: 61395

**DST#: 1**

ATTN: Corey Baker

Test Start: 2015.02.08 @ 18:01:00

## Tool Information

Drill Pipe:	Length: 3937.00 ft	Diameter: 3.80 inches	Volume: 55.23 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 55.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3934.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	49.00 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			3912.00	
Shut In Tool	5.00			3917.00	
Hydraulic tool	5.00			3922.00	
Safety Joint	2.00			3924.00	
Packer	5.00			3929.00	23.00 Bottom Of Top Packer
Packer	5.00			3934.00	
Stubb	1.00			3935.00	
Perforations	2.00			3937.00	
Recorder	0.00	8789	Inside	3937.00	
Recorder	0.00	8289	Outside	3937.00	
Perforations	20.00			3957.00	
Bullnose	3.00			3960.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**17 11s 26w Gove,KS**

PO Box 8037  
Wichita KS 67208

**Reinecker " A " 1-17**

Job Ticket: 61395

**DST#: 1**

ATTN: Corey Baker

Test Start: 2015.02.08 @ 18:01:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

36000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
85.00	MCW 10% m 90% w Show of Oil	1.192

Total Length: 85.00 ft      Total Volume: 1.192 bbf

Num Fluid Samples: 0

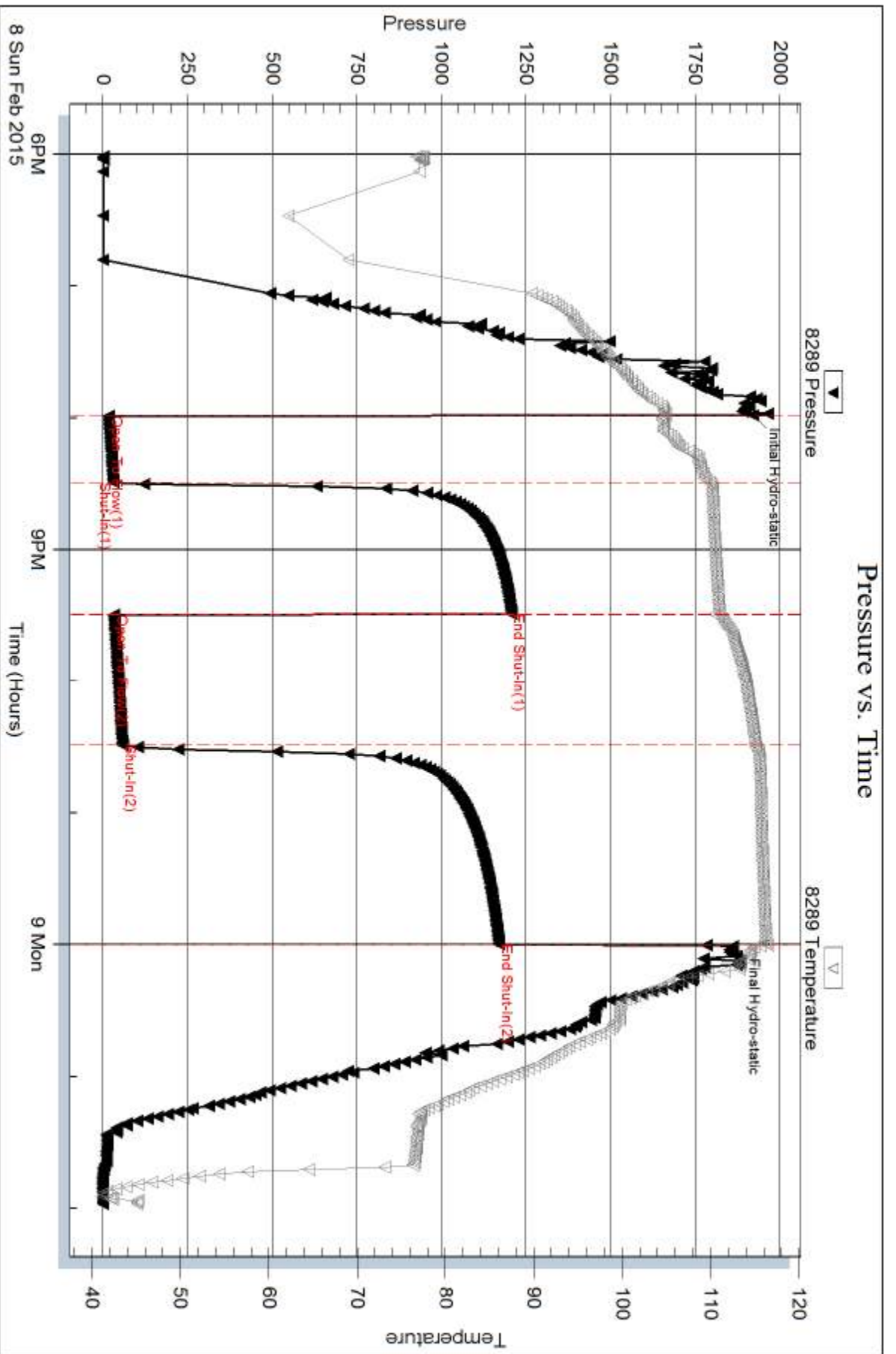
Num Gas Bombs: 0

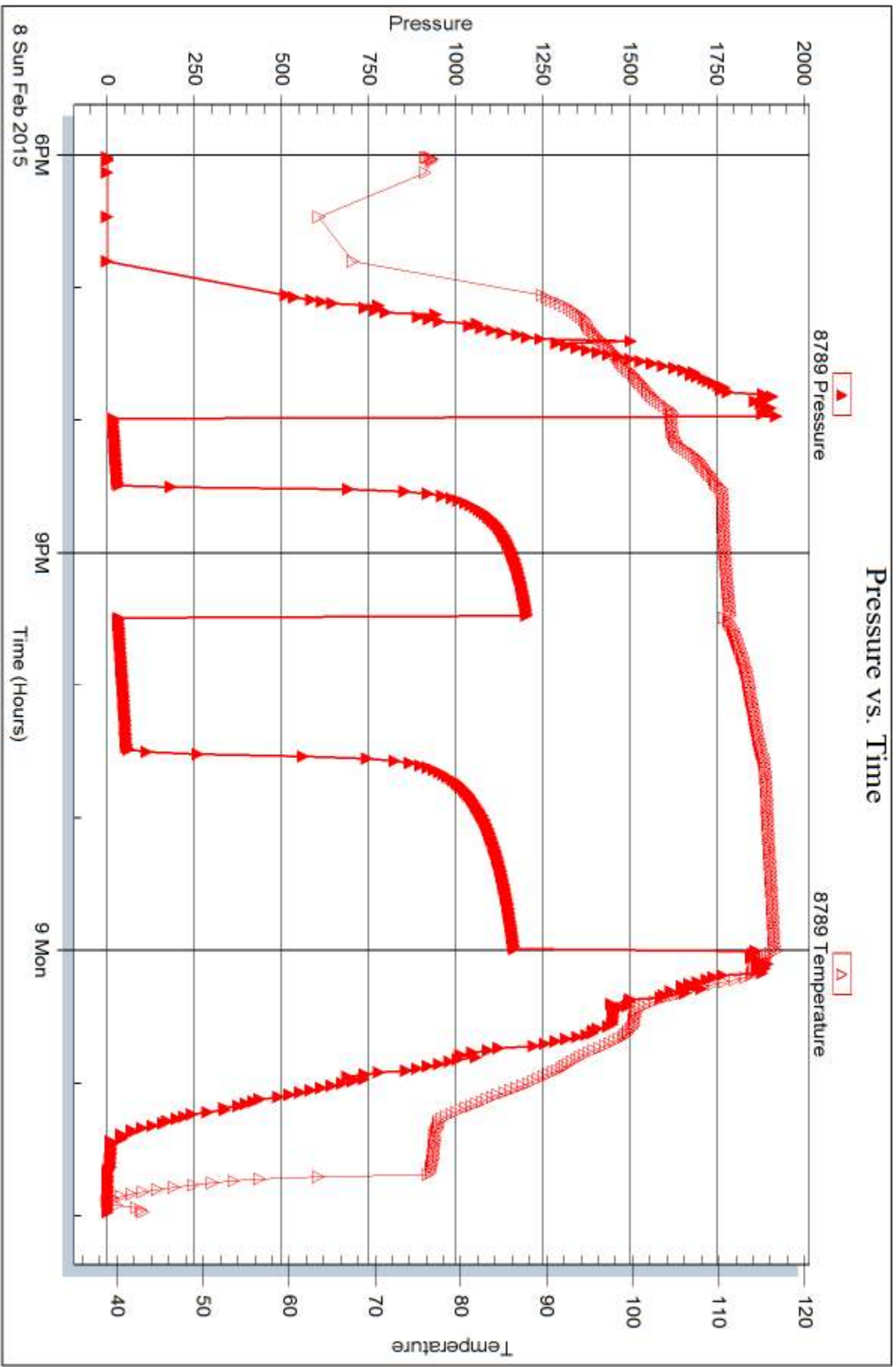
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .328 @ 42







## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Corey Baker

**Reinecker " A " 1-17**

**17 11s 26w Gove,KS**

Start Date: 2015.02.09 @ 15:00:00

End Date: 2015.02.09 @ 22:05:00

Job Ticket #: 61396                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.02.12 @ 08:37:56



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**17 11s 26w Gove,KS**

PO Box 8037  
Wichita KS 67208

**Reinecker " A " 1-17**

ATTN: Corey Baker

Job Ticket: 61396

**DST#: 2**

Test Start: 2015.02.09 @ 15:00:00

## GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:15:45

Time Test Ended: 22:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

**Interval: 4040.00 ft (KB) To 4072.00 ft (KB) (TVD)**

Reference Elevations: 2665.00 ft (KB)

Total Depth: 4072.00 ft (KB) (TVD)

2657.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8289 Outside**

Press@RunDepth: 79.17 psig @ 4044.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.09 End Date: 2015.02.09

Last Calib.: 2015.02.09

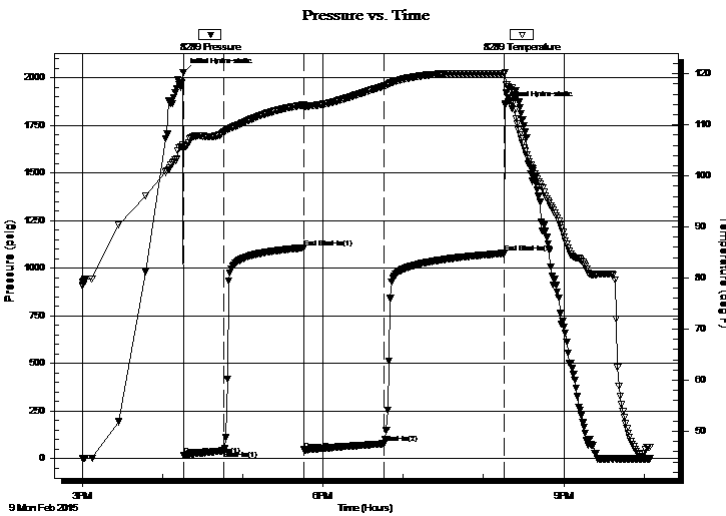
Start Time: 15:00:02 End Time: 22:04:45

Time On Btm: 2015.02.09 @ 16:15:30

Time Off Btm: 2015.02.09 @ 20:16:00

**TEST COMMENT:** 30-IFP- Surface Blow Building to 6"  
60-ISIP- No Blow  
60-FFP- Surface Blow Building to 6 1/4"  
90-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.25	106.19	Initial Hydro-static
1	18.68	105.30	Open To Flow (1)
31	42.32	108.61	Shut-In(1)
90	1107.48	113.88	End Shut-In(1)
91	46.93	113.47	Open To Flow (2)
150	79.17	117.58	Shut-In(2)
240	1078.22	120.02	End Shut-In(2)
241	1855.88	120.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	MCW 30% m 70% w	1.75
5.00	OWCM 10% o 40% w 50% m	0.07
2.00	CO 100%	0.03

\* 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

**17 11s 26w Gove,KS**

PO Box 8037  
Wichita KS 67208

**Reinecker " A " 1-17**

Job Ticket: 61396

**DST#: 2**

ATTN: Corey Baker

Test Start: 2015.02.09 @ 15:00:00

## Tool Information

Drill Pipe:	Length: 4030.00 ft	Diameter: 3.80 inches	Volume: 56.53 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 56.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4040.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4018.00	
Shut In Tool	5.00			4023.00	
Hydraulic tool	5.00			4028.00	
Safety Joint	2.00			4030.00	
Packer	5.00			4035.00	23.00 Bottom Of Top Packer
Packer	5.00			4040.00	
Stubb	1.00			4041.00	
Perforations	3.00			4044.00	
Recorder	0.00	8789	Inside	4044.00	
Recorder	0.00	8289	Outside	4044.00	
Perforations	25.00			4069.00	
Bullnose	3.00			4072.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**17 11s 26w Gove,KS**

PO Box 8037  
Wichita KS 67208

**Reinecker " A " 1-17**

Job Ticket: 61396

**DST#: 2**

ATTN: Corey Baker

Test Start: 2015.02.09 @ 15:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

39500 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 3.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	MCW 30%m 70%w	1.753
5.00	OWCM 10%o 40%w 50%m	0.070
2.00	CO 100%	0.028

Total Length: 132.00 ft

Total Volume: 1.851 bbl

Num Fluid Samples: 0

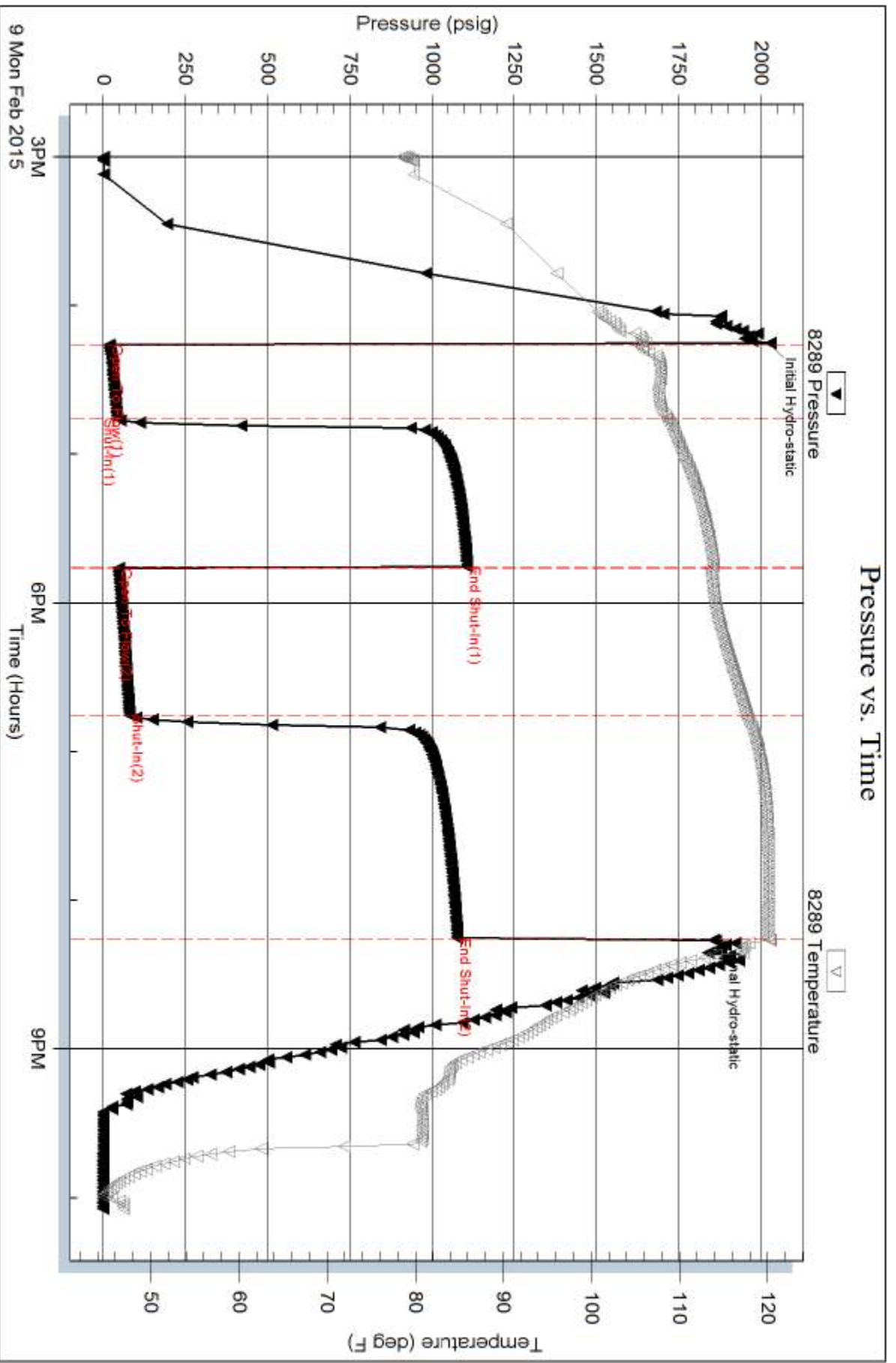
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .255 @ 52



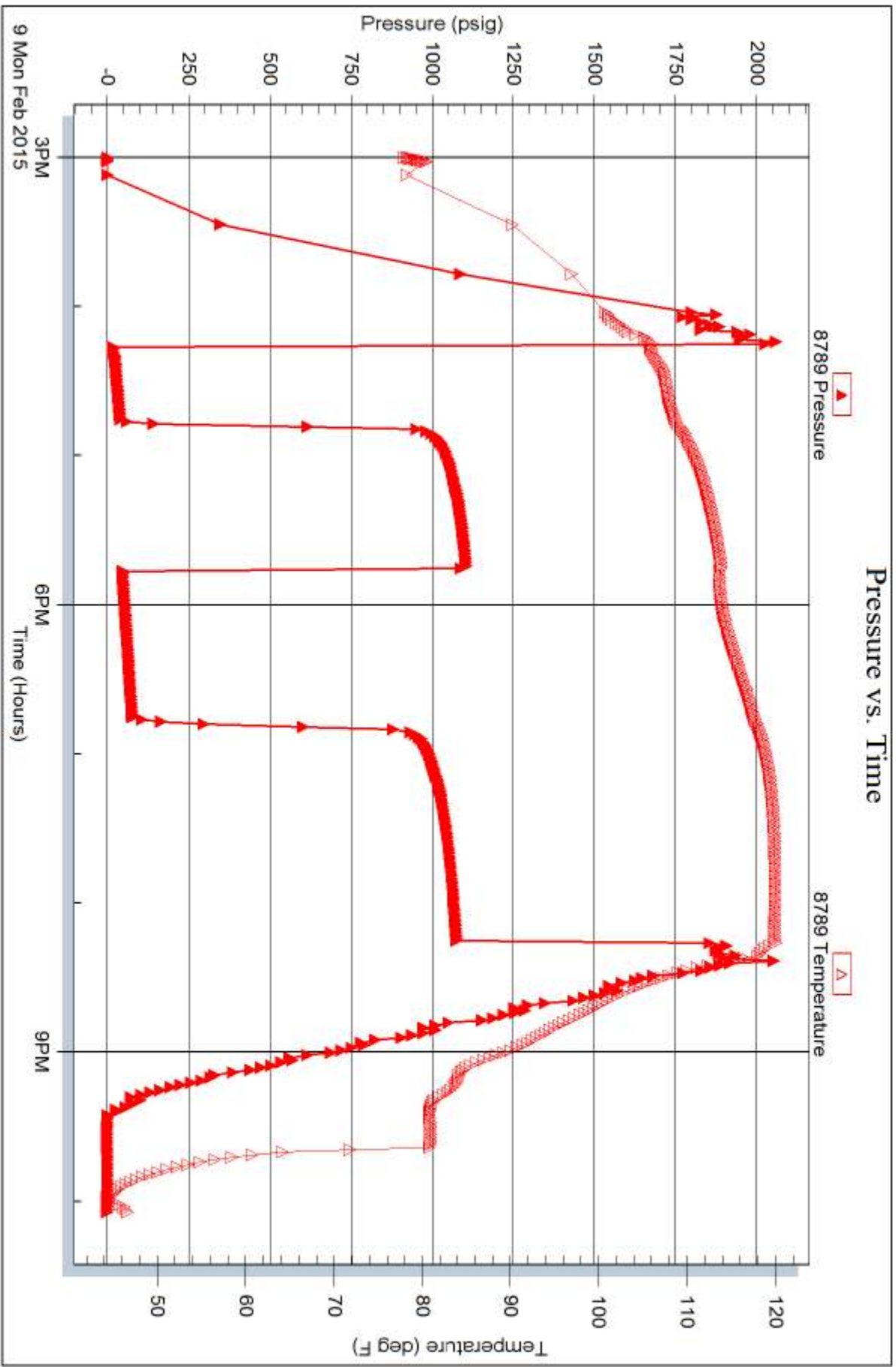
Serial #: 8789

Inside

Cobalt Energy LLC

Reinecker "A" 1-17

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61396

Printed: 2015.02.12 @ 08:37:58



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61395

Well Name & No. Reinecker "A" 1-17 Test No. 1 Date 2-8-15  
 Company Cobalt Energy LLC Elevation 2665 KB 2657 GL  
 Address 115 S. Belmont #12 Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Corey Baker Rig Pickrell #10  
 Location: Sec. 17 Twp. 11<sup>s</sup> Rge. 26<sup>w</sup> Co. GOVE State KS

Interval Tested 3934 - 3960 Zone Tested LKC "C"  
 Anchor Length 26 Drill Pipe Run 3937 Mud Wt. 8.9  
 Top Packer Depth 3929 Drill Collars Run 0 Vis 49  
 Bottom Packer Depth 3934 Wt. Pipe Run 0 WL 6.0  
 Total Depth 3960 Chlorides 900 ppm System LCM 2

Blow Description IFP - Surface Blow Building to 3 in.  
ISIP - No Blow  
FFP - Surface Blow in 7 min. Building to 3 1/4 in.  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>85</u>	<u>mcw show of Oil</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 85 BHT 116 Gravity 1050 API RW 328 @ 42 °F Chlorides 36000 ppm

(A) Initial Hydrostatic 1921  Test 1050 T-On Location 16:45  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 18:01  
 (C) First Final Flow 30  Safety Joint 75 T-Open 20:00  
 (D) Initial Shut-In 1206  Circ Sub \_\_\_\_\_ T-Pulled 00:00  
 (E) Second Initial Flow 32  Hourly Standby \_\_\_\_\_ T-Out 01:59  
 (F) Second Final Flow 56  Mileage 118 RT 118 Comments \_\_\_\_\_  
 (G) Final Shut-In 1170  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1861  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1243 Total 1243 MP/DST Disc't \_\_\_\_\_

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. 61396

Well Name & No. Reinecker "A" 1-17 Test No. 2 Date 2-9-15  
 Company Cobalt Energy LLC Elevation 2665 KB 2657 GL  
 Address 115 S. Belmont #12 Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Corey Baker Rig Picknell #10  
 Location: Sec. 17 Twp. 11<sup>s</sup> Rge. 26<sup>w</sup> Co. Dove State KS

Interval Tested 4040-4072 Zone Tested LKC "H"  
 Anchor Length 32 Drill Pipe Run 4030 Mud Wt. 9  
 Top Packer Depth 4035 Drill Collars Run 0 Vis 60  
 Bottom Packer Depth 4040 Wt. Pipe Run 0 WL 6.4  
 Total Depth 4072 Chlorides 1100 ppm System LCM 3

Blow Description IFP - Surface Blow Building to 6 in.  
ISIP - No Blow  
FFP - Surface Blow Building to 6 1/4 in.  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>mcw</u>		<u>70</u>	<u>30</u>	
<u>5</u>	<u>owcm</u>	<u>10</u>	<u>40</u>	<u>50</u>	
<u>2</u>	<u>CO</u>	<u>100</u>			

Rec Total 132 BHT 120 Gravity 21 API RW .255 @ 52 °F Chlorides 39500 ppm

(A) Initial Hydrostatic <u>2027</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>14:40</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars	T-Started <u>15:00</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:16</u>
(D) Initial Shut-In <u>1107</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>20:16</u>
(E) Second Initial Flow <u>46</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:05</u>
(F) Second Final Flow <u>79</u>	<input checked="" type="checkbox"/> Mileage <u>X 2</u> <u>118+118</u>	Comments <u>Called to PU Tool</u>
(G) Final Shut-In <u>1078</u>	<input type="checkbox"/> Sampler	<u>14:10 - 2-11-15</u>
(H) Final Hydrostatic <u>1855</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>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby <u>1.5d 4h</u>	Total <u>2161</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1361</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.

