



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1095564  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_



1095564

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](mailto: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:  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

<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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---



**CONSOLIDATED**  
Oil Well Services, LLC

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

TICKET NUMBER 37203  
LOCATION Oakley, KS  
FOREMAN Walt Dunkel

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-18-12	2180	Maier 1-18	18	20 <sup>s</sup>	21 <sup>w</sup>	Ness
CUSTOMER Colbatt Energy, LLC			Bazins			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			95 to Rd	399	Damon Miller	
STATE			40	566	Cody Roots	
ZIP CODE			1/2 E			
			S.S.			

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 226' CASING SIZE & WEIGHT 8 5/8  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 15'-20'  
 DISPLACEMENT 13 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 BPM

REMARKS: Safety Meeting, rig up on Southwind #2  
Circ casing on bottom, mix 185 sks com, 3% CC-2% Ca  
Displace 13 BBL H<sub>2</sub>O, shut in  
3 BBL to Pit  
Cement Did Circ

*Thank You  
Walt & Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1,085.00	1,085.00
5406	30	MILEAGE	5.00	150.00
11043	165 - SKS	Class A Cement	17.65	2,912.25
1102	465 #	Calcium Chloride	.89	413.85
1118B	310 #	Gel	.25	77.50
5407	7.76	Ton Mileage Delivery	167	410.00
				5,048.60
Less 10% Disc				504.86
				4,543.74
				192.98
				4736.72

**Completed**

Ravin 3737  
 AUTHORIZATION William Jordan TITLE JP  
 SALES TAX ESTIMATED TOTAL 4736.72  
 DATE 9-18-12

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

253008







# LITHOLOGY STRIP LOG

WellSight Systems  
Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Cobalt Energy, LLC Maier 'A' #1-18 D&A  
Location: Approx S2 N2 NW Section 18-T20S-R21W  
License Number: API: 15-135-25447 Region: Ness Co, KS  
Spud Date: Sept 17, 2012 Drilling Completed: Sept 24, 2012  
Surface Coordinates: 969' FNL & 1334' FWL Section 18-T20S-R21W

Bottom Hole Coordinates: 2204 K.B. Elevation (ft): 2213  
Ground Elevation (ft): 3600 To: 4378 Total Depth (ft): 4378  
Logged Interval (ft): Mississippian, RTD 4378 (-2165), LTD 4372 (-2159).  
Type of Drilling Fluid: Chemical

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: Cobalt Energy, LLC  
Address: PO Box 8037  
Wichita, Kansas 67208

## GEOLOGIST

Name: Mikeal K. Maune  
Company: Consulting Petroleum Geologist - Kansas Licensed No. 210  
Address: Wichita, Kansas  
Office: 316-722-8173

## COMMENTS

Surface Casing: 8 5/8" set @ 225' w/135 sx common, 2% cc, 3% gel. Cement circulated.  
Production Casing: D&A  
Deviation Surveys: 3/4 @ 225', 3/4 @ 4290',  
Pipe Strap @ 4290'. Strap 4293.12'. Board 4290'. Strap 3.12 ft long to Board.  
Southwind Drilling, Inc. Rig #2 Bit Record:  
#1 12 1/4" in @ GL, out @ 225'  
#2 7 7/8" in @ 225', out @ 4378'.  
Gas Detector: None  
Mud System: Mud-CO/Service Mud  
DSTs: Trilobite Testing Inc.  
OH Logs: Pioneer Energy Services RAG Log  
OH Logging complete 9/25/2012

Note: The Maier "A" #1-18 OH Log was correlated with the rotary drilling time on this report. The OH Log depths are approximately 5 to 6 feet high to the rotary drilling depth measurements. The Gamma Ray curve on this report has been adjusted downhole 6 feet to correlate with the rotary drilling time depths.

OH Log formation tops: Anhydrite 1414 (+799), Base Anhydrite 1448 (+763), Heebner 3719 (-1506), Lansing 3762 (-1549), Stark 4045 (-1832), BKC 4099 (-1886), Pawnee 4197 (-1984), Fort Scott 4267 (-2054), Cherokee 4291 (-2078), Conglomerate 4325 (-2112), Miss Osage 4367 (-2154), LTD 4372 (-2159).

## DSTs

DST #1 (Fort Scott) 4276-4290/30-60-60-90. 1st Op: WB 1/8 inch blow. 2nd Op: WB 1/2 inch blow. Recover: 10' Oil spotted Mud. IH 2169#, IFP 15-17#, ISIP 378# building, FFP 12-19#, FSIP 141# building, FH 2081#, BHT 113 F.

DST #2 (Osage) 4310-4378/30-60-60-90. 1st Op: 7 1/4 inch blow. 2nd Op: 7 1/2 inch blow. Recover: 80' Oil spt SWCM (10% Wtr, 90% M), 120' MCW (60% Wtr, 40% M). Recovery Chl 23,000. RW .37 @ 55 F. System Chl 7,000. IH 2169#, IFP 25-62#, ISIP 1,162# building, FFP 68-117#, FSIP 1,048# building, FH 2065#, BHT 117 F.

## ROCK TYPES

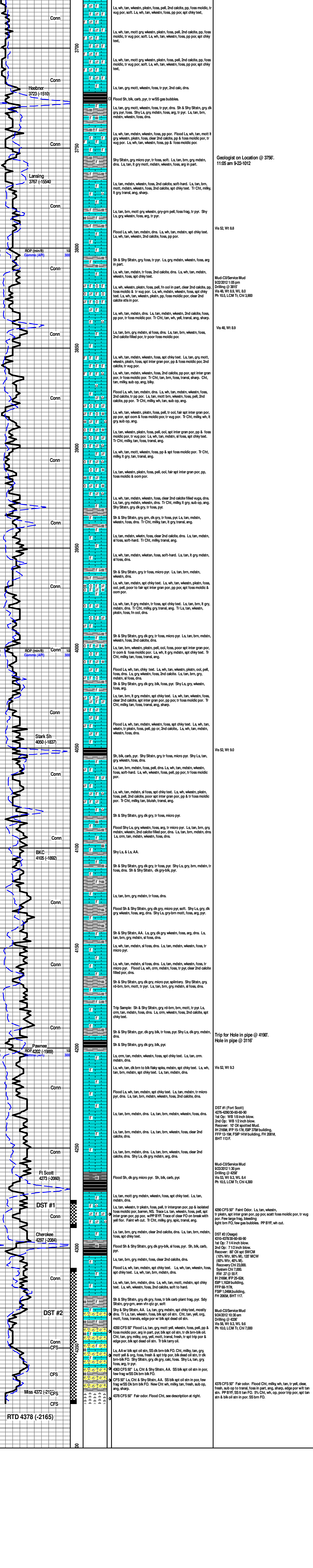
Anhy	Congl	Lmst	Black sh
Bent	Shy dolo	Mrst	Gry sh
Brec	Dol	Salt	Shale
Cht	Gyp	Shst	Shyslst
Clyst	Sdy imst	Ss	Sty sh
Coal			

## ACCESSORIES

Chlorite	Pelec	Grysh
Dol	Pelloidal	Gryslt
Sand	Pisolite	Lms
Silty	Plant	Sandylms
	Strom	Sh
	Fuss	Silstn
	Oomoldic	

Anhy	Arg	Bent	Coal	Dol	Gyp	Ls	Mrst	Siltstrg	Ssstrg	Carbsh	Clystn	Dol			
Calc	Chtdk	Chtlt	Dol	Ferrpel	Ferr	Glau	Gyp	Marl	Nodule	Phos	Pyr	Salt	Sandy	Silt	
Algae	Amph	Belm	Bioclst	Brach	Bryozoa	Cephal	Coral	Crin	Echin	Fish	Foram	Fossil	Gastro	Oolite	Ostra
STRINGER	Anhy	Arg	Bent	Coal	Dol	Gyp	Ls	Mrst	Siltstrg	Ssstrg	Carbsh	Clystn	Dol		

Boundst	Chalky	Cryxln	Earthy	Finxln	Glnstr	Lithogr	Microxln	Mudst	Packst	Wackest
---------	--------	--------	--------	--------	--------	---------	----------	-------	--------	---------



4290 CFS 57' Faint Odor. Ls, tan, wkestrn, tr plstn, spt inter gran por, pp, poc scatt foss moldic por, tr vug por. Few large frag, bleeding light brn FO, few gas bubbles. PP BYE, wh out.

DST #2 (Osage) 4310-4378/30-60-60-90  
1st Op: 7 1/4 inch blow.  
2nd Op: 7 1/2 inch blow.  
Recover: 80' Oil spt SWCM (10% Wtr, 90% M), 120' MCW (60% Wtr, 40% M). Recovery Chl 23,000. RW .37 @ 55 F. System Chl 7,000. IH 2169#, IFP 25-62#, ISIP 1,162# building, FFP 68-117#, FSIP 1,048# building, FH 2065#, BHT 117 F.

Mud-CO/Service Mud  
9/24/2012 10:30 pm  
Drilling @ 4337  
Vis 85, WI 53, WL 9.6  
Ph 10.0, LCM Tc Chl 7.000

4378 CFS 57' Fair odor. Flood Cht, milky tan, tr, yell, clear, fresh, sub op to transl, foss in part, ang, sharp, edge por w/lt tan stn. PP BYE, SS lt tan FO. 3% Cht, wh, op, poor trip por, spt tan stn & blk silt stn in por. SS brn FO.



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Mike Maune

**Maier A #1-18**

**18-20s-21w Ness,KS**

Start Date: 2012.09.23 @ 21:30:00

End Date: 2012.09.24 @ 05:33:30

Job Ticket #: 43578                      DST #: 1

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

Printed: 2012.09.27 @ 15:07:55



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**18-20s-21w Ness, KS**

PO Box 8037  
Wichita KS 67208

**Maier A #1-18**

Job Ticket: 43578

**DST#: 1**

ATTN: Mike Maune

Test Start: 2012.09.23 @ 21:30:00

## GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:54:30

Time Test Ended: 05:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

**Interval: 4276.00 ft (KB) To 4290.00 ft (KB) (TVD)**

Reference Elevations: 2213.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

2205.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8319 Outside**

Press @ Run Depth: 19.49 psig @ 4277.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.23

End Date:

2012.09.24

Last Calib.: 2012.09.24

Start Time: 21:30:05

End Time:

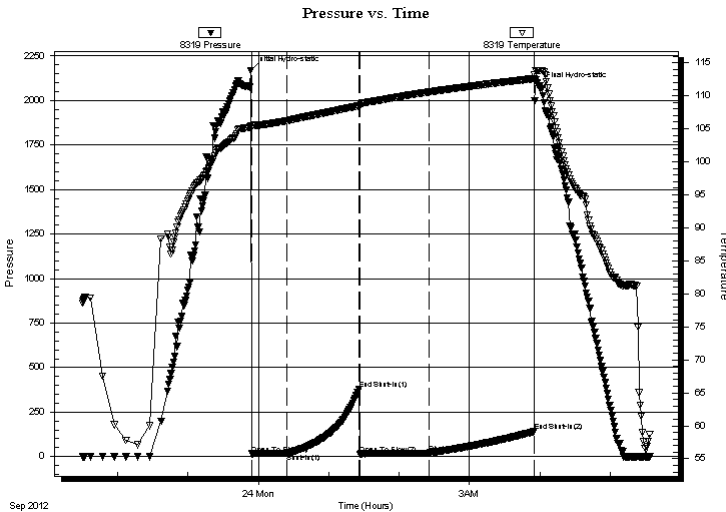
05:33:29

Time On Btm: 2012.09.23 @ 23:53:30

Time Off Btm: 2012.09.24 @ 03:59:00

TEST COMMENT: IF-1/8" blow  
ISI-No blow  
FF-1/2" blow  
FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.32	105.50	Initial Hydro-static
1	15.31	105.21	Open To Flow (1)
31	17.38	106.23	Shut-In(1)
92	377.56	108.48	End Shut-In(1)
93	11.76	108.48	Open To Flow (2)
152	19.49	110.57	Shut-In(2)
242	140.72	112.60	End Shut-In(2)
246	2080.56	113.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Oil spotted mud	0.14

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC

**18-20s-21w Ness, KS**

PO Box 8037  
Wichita KS 67208

**Maier A #1-18**

Job Ticket: 43578

**DST#: 1**

ATTN: Mike Maune

Test Start: 2012.09.23 @ 21:30:00

## Tool Information

Drill Pipe:	Length: 4256.00 ft	Diameter: 3.80 inches	Volume: 59.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 40000.00 lb
			<u>Total Volume: 59.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	4276.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 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			4249.00	
Shut In Tool	5.00			4254.00	
Hydraulic tool	5.00			4259.00	
Jars	5.00			4264.00	
Safety Joint	2.00			4266.00	
Packer	5.00			4271.00	28.00 Bottom Of Top Packer
Packer	5.00			4276.00	
Stubb	1.00			4277.00	
Recorder	0.00	8166	Inside	4277.00	
Recorder	0.00	8319	Outside	4277.00	
Perforations	10.00			4287.00	
Bullnose	3.00			4290.00	14.00 Bottom Packers & Anchor

**Total Tool Length: 42.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Cobalt Energy LLC

**18-20s-21w Ness,KS**

PO Box 8037  
Wichita KS 67208

**Maier A #1-18**

Job Ticket: 43578

**DST#: 1**

ATTN: Mike Maune

Test Start: 2012.09.23 @ 21:30:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	Oil spotted mud	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

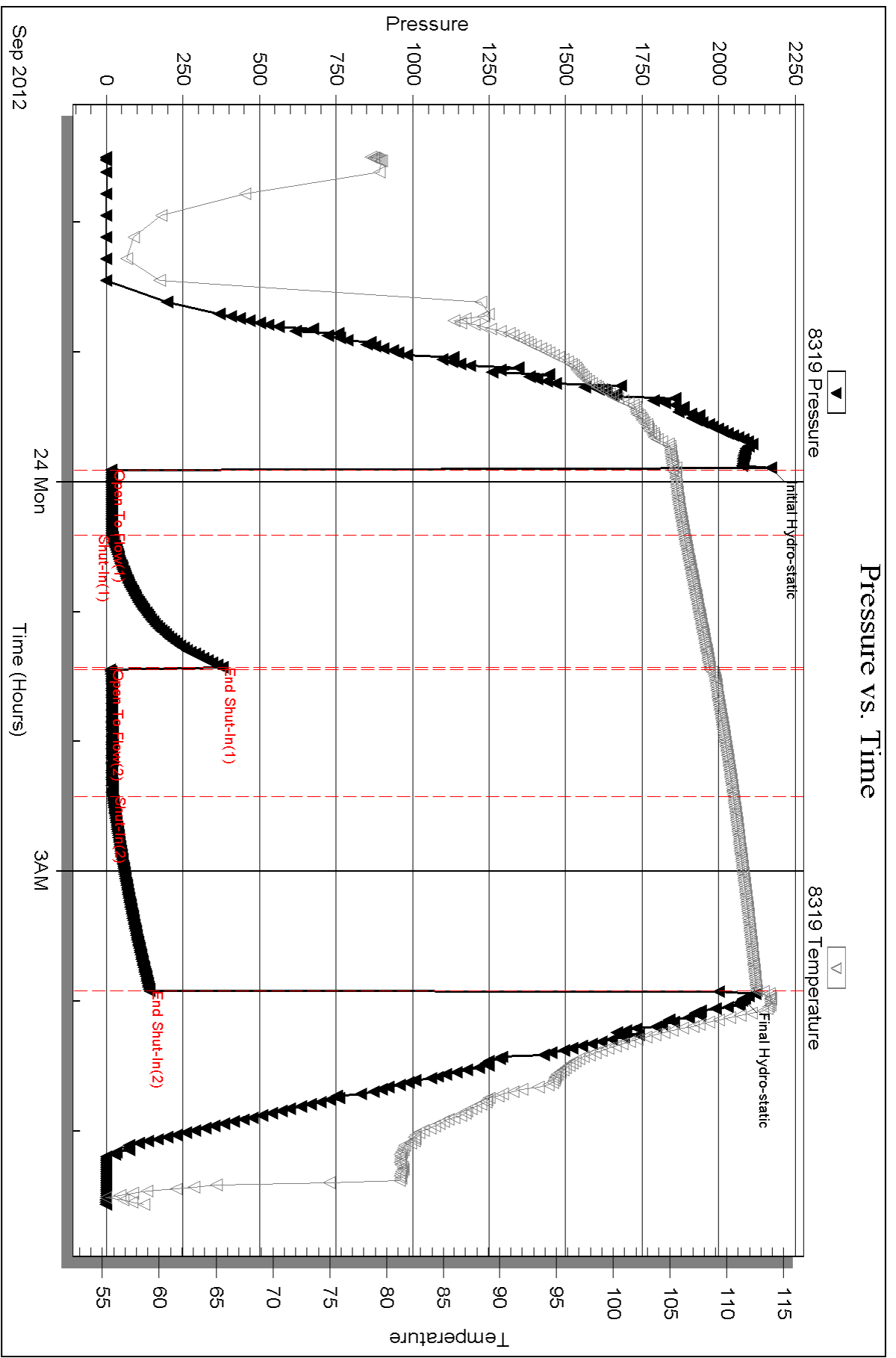
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





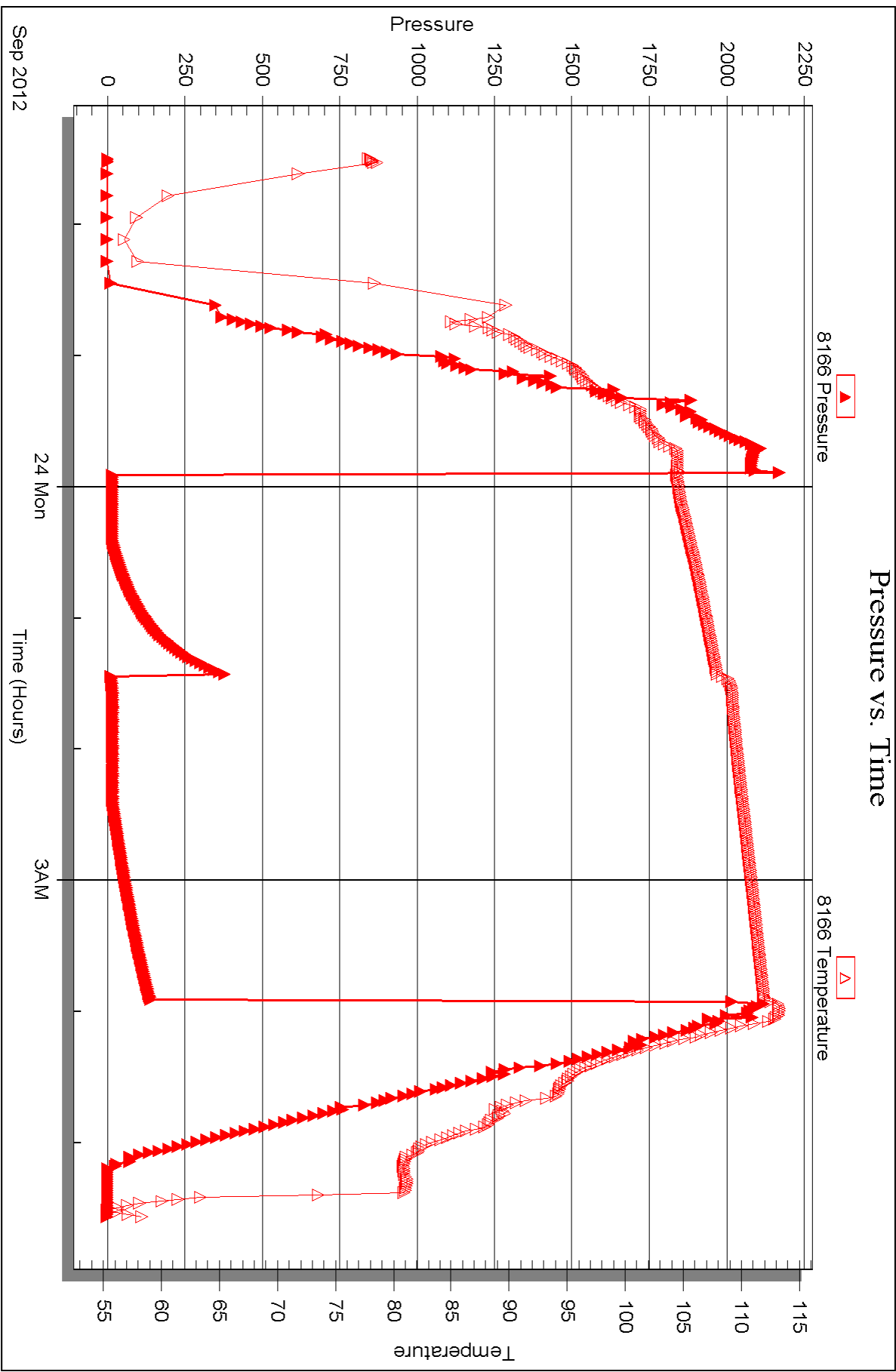
Serial #: 8166

Inside

Cobalt Energy LLC

Maier A #1-18

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Mike Maune

**Maier A #1-18**

**18-20s-21w Ness,KS**

Start Date: 2012.09.24 @ 18:55:00

End Date: 2012.09.25 @ 02:58:00

Job Ticket #: 43579                      DST #: 2

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

Printed: 2012.09.27 @ 15:07:12



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**18-20s-21w Ness, KS**

PO Box 8037  
Wichita KS 67208

**Maier A #1-18**

Job Ticket: 43579

**DST#: 2**

ATTN: Mike Maune

Test Start: 2012.09.24 @ 18:55:00

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:58:00

Time Test Ended: 02:58:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 4310.00 ft (KB) To 4378.00 ft (KB) (TVD)**

Reference Elevations: 2213.00 ft (KB)

Total Depth: 4378.00 ft (KB) (TVD)

2205.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8319 Outside**

Press @ Run Depth: 117.25 psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.24

End Date:

2012.09.25

Last Calib.:

2012.09.25

Start Time: 18:55:05

End Time:

02:57:59

Time On Btm:

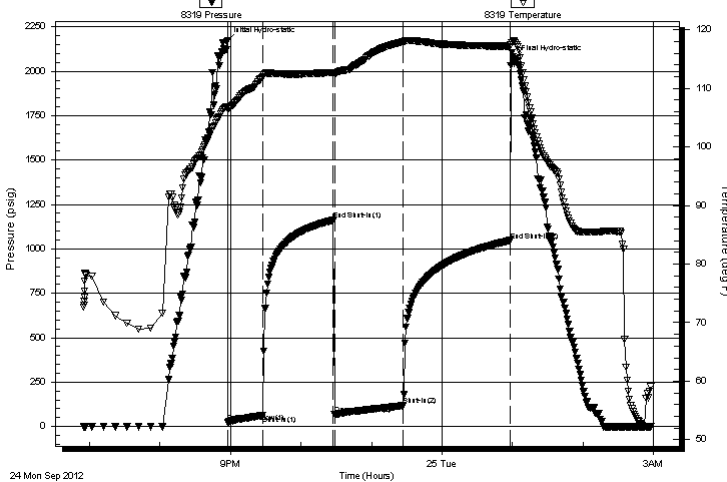
2012.09.24 @ 20:57:00

Time Off Btm:

2012.09.25 @ 01:01:00

**TEST COMMENT:** IF-7.25" blow  
ISI-No blow  
FF-7.5" blow  
FSI-No blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.18	106.86	Initial Hydro-static
1	24.81	106.45	Open To Flow (1)
31	61.81	112.02	Shut-In(1)
91	1161.67	112.73	End Shut-In(1)
92	67.61	112.48	Open To Flow (2)
150	117.25	117.95	Shut-In(2)
241	1047.56	117.20	End Shut-In(2)
244	2064.66	118.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	Oil spotted SWCM 10%W 90%M	1.12
120.00	MCW 60%W 40%M	1.68

## 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

**18-20s-21w Ness, KS**

PO Box 8037  
Wichita KS 67208

**Maier A #1-18**

Job Ticket: 43579

**DST#: 2**

ATTN: Mike Maune

Test Start: 2012.09.24 @ 18:55:00

## Tool Information

Drill Pipe:	Length: 4290.00 ft	Diameter: 3.80 inches	Volume: 60.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 40000.00 lb
			<u>Total Volume: 60.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	4310.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	96.00 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			4283.00	
Shut In Tool	5.00			4288.00	
Hydraulic tool	5.00			4293.00	
Jars	5.00			4298.00	
Safety Joint	2.00			4300.00	
Packer	5.00			4305.00	28.00 Bottom Of Top Packer
Packer	5.00			4310.00	
Stubb	1.00			4311.00	
Recorder	0.00	8166	Inside	4311.00	
Recorder	0.00	8319	Outside	4311.00	
Perforations	10.00			4321.00	
Blank Off Sub	1.00			4322.00	
Blank Spacing	32.00			4354.00	
Change Over Sub	1.00			4355.00	
Perforations	20.00			4375.00	
Bullnose	3.00			4378.00	68.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>96.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**18-20s-21w Ness,KS**

PO Box 8037  
Wichita KS 67208

**Maier A #1-18**

Job Ticket: 43579

**DST#: 2**

ATTN: Mike Maune

Test Start: 2012.09.24 @ 18:55:00

## 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:

23000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
80.00	Oil spotted SWCM 10%W 90%M	1.122
120.00	MCW 60%W 40%M	1.683

Total Length: 200.00 ft      Total Volume: 2.805 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

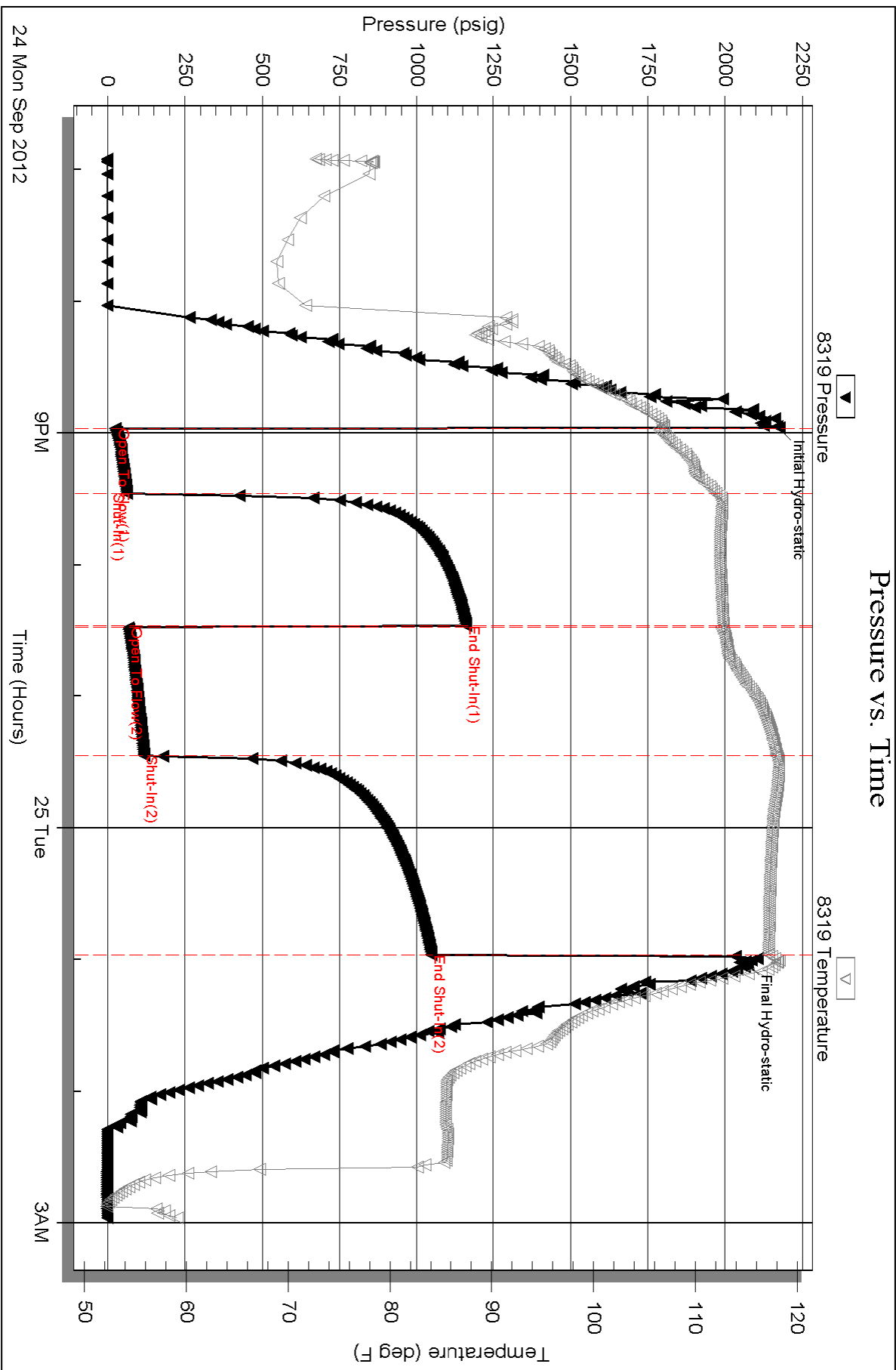
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .37 @55





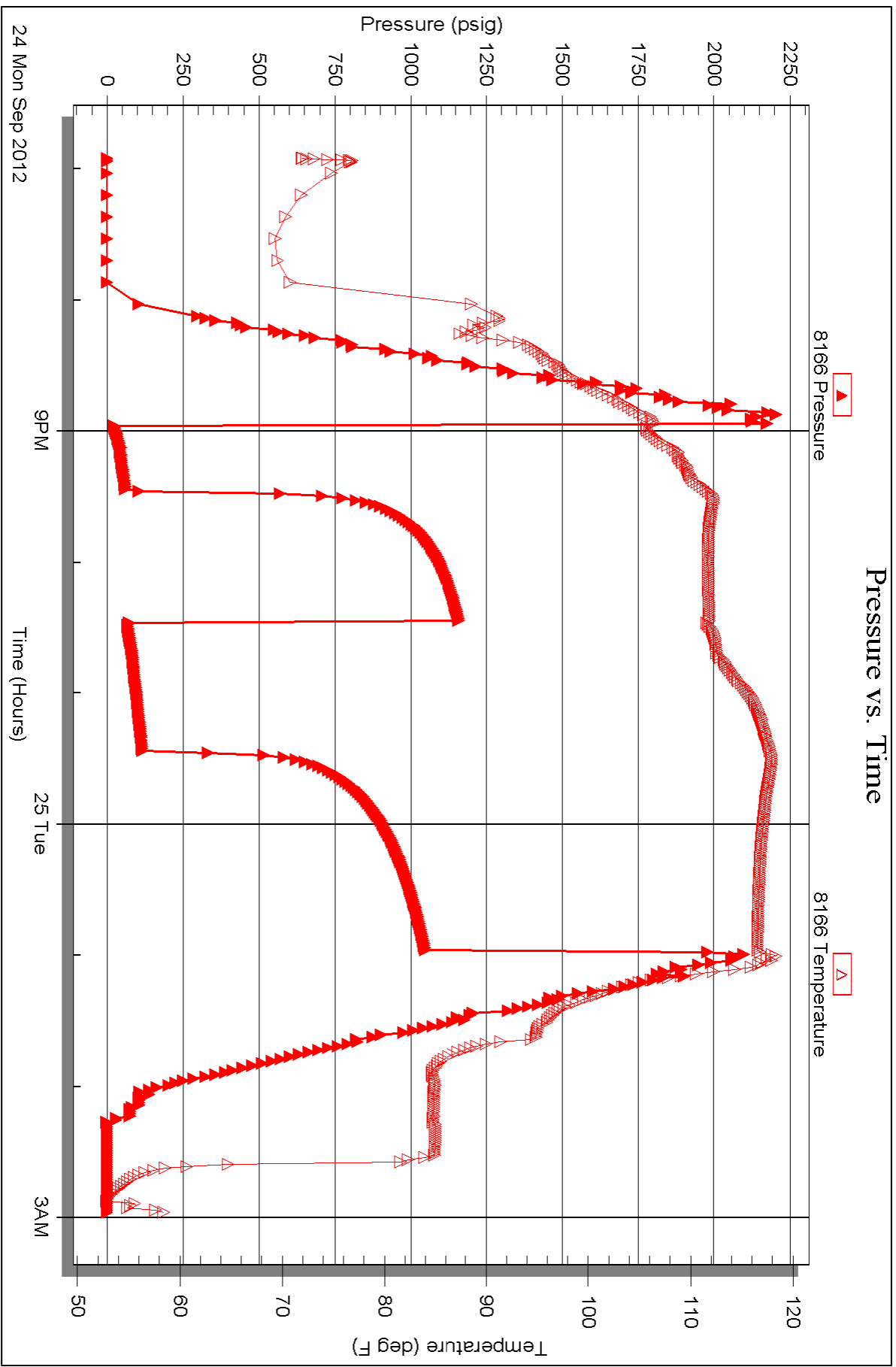
Serial #: 8166

Inside

Cobalt Energy LLC

Maier A #1-18

DST Test Number: 2





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 43578

4/10

Well Name & No. Maier 'A' # 1-18 Test No. 1 Date 9/23/12  
 Company Cobalt Energy LLC Elevation 2213 KB 2205 GL  
 Address PO Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Mike Maune Rig Southwind #2  
 Location: Sec. 18 Twp. 20 Rge. 21 Co. Ness State KS

Interval Tested 4276 - 4290 Zone Tested For Scott  
 Anchor Length 14 Drill Pipe Run 42.56 Mud Wt. 9.3  
 Top Packer Depth 4271 Drill Collars Run — Vis 5.3  
 Bottom Packer Depth 4276 Wt. Pipe Run — WL 8.4  
 Total Depth 4290 Chlorides 4,300 ppm System LCM  
 Blow Description IF - 1/8 in blow  
ISI - No blow  
FF - 1/2 in blow  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>oil spotted mud</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 10 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2,169  Test 1250 T-On Location 21:00  
 (B) First Initial Flow 15  Jars 250 T-Started 21:30  
 (C) First Final Flow 17  Safety Joint 75 T-Open 23:45  
 (D) Initial Shut-In 378  Circ Sub T-Pulled 3:45  
 (E) Second Initial Flow 12  Hourly Standby T-Out 5:30  
 (F) Second Final Flow 19  Mileage ~~127.8~~ 127.7 196.85 Comments \_\_\_\_\_  
 (G) Final Shut-In 141  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,081  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1771.85  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 1771.85

Approved By \_\_\_\_\_ Our Representative Butt

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. 43579

4/10

Well Name & No. Maier 'A' #1-18 Test No. 2 Date 9/24/12  
 Company Cobalt Energy LLC Elevation 2213 KB 2205 GL  
 Address PO Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Mike Mayne Rig Southwind #2  
 Location: Sec. 18 Twp. 20 Rge. 21 Co. Ness State KS

Interval Tested 4310-4378 Zone Tested MIS  
 Anchor Length 68 Drill Pipe Run 4290 Mud Wt. 9.3  
 Top Packer Depth 4305 Drill Collars Run — Vis 53  
 Bottom Packer Depth 4310 Wt. Pipe Run — WL 8.4  
 Total Depth 4378 Chlorides 4,300 ppm System LCM —  
 Blow Description IF - 7 1/4 in blow  
FSI - No blow  
FF - 7 1/2 in blow  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>Oil spotted SWCM</u>		<u>10</u>	<u>70</u>	
<u>120</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 200 BHT 117 Gravity \_\_\_\_\_ API RW .37 @ 55 °F Chlorides 23000 ppm

(A) Initial Hydrostatic <u>2169</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>18:35</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>18:55</u>
(C) First Final Flow <u>62</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>21:00</u>
(D) Initial Shut-In <u>1,162</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1:00</u>
(E) Second Initial Flow <u>68</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2:55</u>
(F) Second Final Flow <u>117</u>	<input checked="" type="checkbox"/> Mileage <u>127rt</u> 196.85	Comments _____
(G) Final Shut-In <u>1,048</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2,065</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Total <u>1771.85</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1771.85</u>	

Approved By \_\_\_\_\_ Our Representative Butt Dier  
 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.

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 02, 2012

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

Re: ACO1  
API 15-135-25447-00-00  
Maier 'A' 1-18  
NW/4 Sec.18-20S-21W  
Ness County, Kansas

Dear Production Department:

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

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

Respectfully,  
Nicholas D. Hess