



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1215390  
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: \_\_\_\_\_

1215390

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Home Office P.O. Box 32 Russell, KS 67665

No. 198

Phone 785-483-2025  
Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-11-14	21	8	22	Graham	KS		2:30 AM
				Location Hill City 15 1E 1/2 S 2 1/4 E N 1/2			

Lease	Wasinger Trust "A"	Well No.	1-21	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Murfin #24			Charge To	Cobalt Energy
Type Job	Top Stage			Street	
Hole Size	7 7/8	T.D.		City	State
Csg.	4 1/2	Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth	1788	Cement Amount Ordered 350 QMDC 1/4 # flo	
Tool	DV @	Shoe Joint			
Cement Left in Csg.		Displace	28 1/2 bbl		
Meas Line					

**EQUIPMENT**

Pumptrk	17	No.	Cementer	Lonie W
			Helper	
Bulktrk	13	No.	Driver	Lanniem Ryan
			Driver	
Bulktrk	Pu	No.	Driver	Brett
			Driver	

Common	350 QMDC
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	87#
Mud CLR	48
CFL-117 or CD110 CAF	38
Sand	
Handling	350
Mileage	

**JOB SERVICES & REMARKS**

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Mixal 350 sq QMDC  
Displaced 28 1/2 bbl  
Landed Plug @ 1000 lbs  
Plug held  
Cement circulated!!

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge *prod string*

Mileage 37

*Top stage*

Signature *Anthony Mart*  
*Ruby Papp*

Tax	
Discount	
Total Charge	

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 197

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-10-14	21	8	22	Graham	KS		1:15 AM
				Location Hill City 15 1E 1/2 S 2 1/4 E Ninto			

Lease Wasinger Trust "A" Well No. 1-21

Contractor Martin #24

Type Job Bottom Stage

Hole Size 7 7/8 T.D. 3707'

Csg. 4 1/2 Depth 3696'

Tbg. Size \_\_\_\_\_ Depth \_\_\_\_\_

Tool \_\_\_\_\_ Depth \_\_\_\_\_

Cement Left in Csg. 42.15 Shoe Joint 42.15

Meas Line \_\_\_\_\_ Displace 58 bbl

Owner  
To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Cobalt Energy

Street \_\_\_\_\_ State \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 125 sx Q-Pro-C  
10% salt 5% gilsonite 1/4 flow

**EQUIPMENT**

Pumptrk 17	No.	Cementer	
		Helper	<u>Lonnie W</u>
Bulktrk 13	No.	Driver	
		Driver	<u>Lannie M Ryan</u>
Bulktrk pu	No.	Driver	
		Driver	<u>Brett</u>

Common

Poz. Mix

Gel.

Calcium

**JOB SERVICES & REMARKS**

Remarks:

Rat Hole

Mouse Hole

Centralizers - 1, 2, 3, 4, 5 + 47

Baskets - 45 + 46

DV ~~45~~ @1788 J + 46

Hulls

Salt 11

Flowseal 31#

Kol-Seal 625#

Mud CLR 48 500 gal

CFL-117 or CD110 CAF 38

Sand

Handling 139

Mileage

Mix Mud Flush 500 Gal

Mix 125 sx Q-Pro-C

Displaced 58 bbl

Lift pressure @ 600

Landed @ 1500

Dropped DV

Opened DV Tool

**4 1/2 FLOAT EQUIPMENT**

Guide Shoe

Centralizer - 6

Baskets - 2

AFU Inserts

Float Shoe - 1

Latch Down - 1

DV Tool - 1

Rubber Plug - 1

Pumptrk Charge prod string

Mileage 37

Bottom Stage

X Signature [Signature]

Tax \_\_\_\_\_

Discount \_\_\_\_\_

Total Charge \_\_\_\_\_

# ALLIED OIL & GAS SERVICES, LLC 063331

Federal Tax I.D. # 20-8651476

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

SERVICE POINT: *Dakleyky*

DATE <i>6/4/14</i>	SEC. <i>21</i>	TWP. <i>8</i>	RANGE <i>22</i>	CALLED OUT	ON LOCATION	JOB START <i>11:00</i>	JOB FINISH <i>11:30</i>
Wasinger Tract #	WELL # <i>1-21</i>	LOCATION <i>Hill County 15 Acres, River F</i>				COUNTY <i>Hill</i>	STATE <i>Tx</i>
OLD OR NEW (Circle one) <input checked="" type="checkbox"/> NEW		LOCATION <i>45 2 1/2 E Ninto</i>					

CONTRACTOR <i>Montez 24</i>	OWNER <i>Same</i>
TYPE OF JOB <i>Swell</i>	CEMENT
HOLE SIZE <i>12 1/4</i> T.D. <i>221'</i>	AMOUNT ORDERED <i>165 tons 350 CC</i>
CASING SIZE <i>8 3/8</i> DEPTH <i>221'</i>	<i>20 1/2 gal</i>
TUBING SIZE	COMMON <i>165 @ 17 30 2953 50</i>
DRILL PIPE	POZMIX
TOOL	GEL <i>310 16 @ 1 95 325 50</i>
PRES. MAX	CHLORIDE <i>464 16 @ 1 10 570 40</i>
MEAS. LINE	ASC
CEMENT LEFT IN CSG. <i>15'</i>	MANIFOLD <i>3, 129 1/10</i>
PERFS.	<i>(1,200.39 / 34)</i>
DISPLACEMENT <i>13, 12 20 82</i>	HANDLING <i>178 41 @ 2 48 442 48</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Alan Ryan*

# *923-289* HELPER *Kevin Ryan*

BULK TRUCK

# *321* DRIVER *Enrique (7415)*

BULK TRUCK

#

REMARKS:

*Amulya Circulate Max cement Displace Cement Shovel in*

*Cement bed Circulate*

*RTP Soil to use Swedge*

*Franke*  
*Montez Enrique*

CHARGE TO *Cobalt Energy*

STREET

CITY STATE ZIP

HANDLING

MILEAGE

TOTAL

SERVICE

DEPTH OF JOB <i>221'</i>	TOTAL
PUMP TRUCK CHARGE <i>152 25</i>	
EXTRA FOOTAGE	
MILEAGE <i>85 @ 2 20 654 82</i>	
MANIFOLD <i>470 Vehicle 85 @ 4 42 354 80</i>	
<i>(1,754.97 / 34)</i>	TOTAL <i>5,161.66</i>

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 *Donald Strecker*

SIGNATURE *Donald Strecker*

SALES TAX (if Any)

TOTAL CHARGES *8,951.06*

DISCOUNT *3,043.36 (34%)* IF PAID IN 30 DAYS

*5,907.69 Net.*

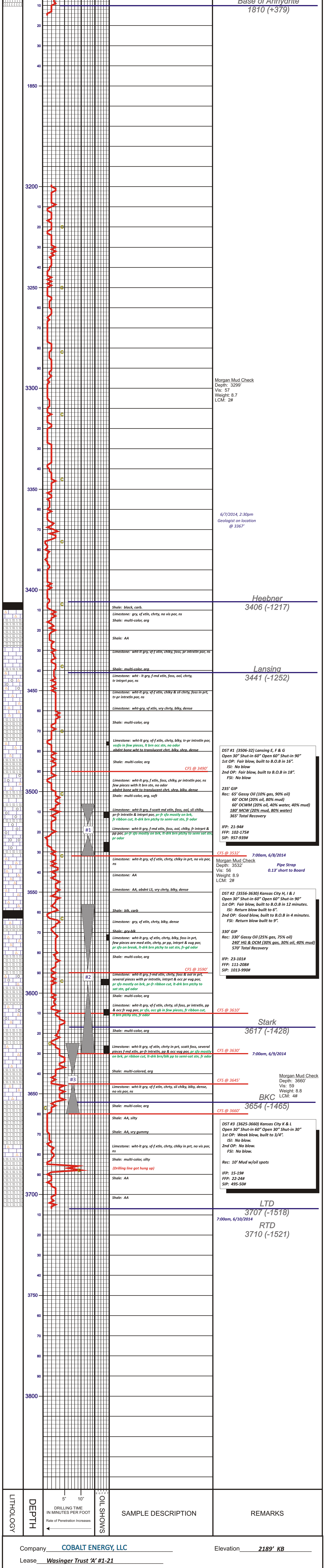


GEOLOGIST'S REPORT  
DRILL TIME &  
SAMPLE LOG

COMPANY: COBALT ENERGY, LLC  
LEASE: Wasinger Trust 'A' #1-21  
FIELD: Wildcat  
LOCATION: 863' FSL & 1711' FWL  
SEC: 21 TWP: 8S RGE: 22W  
COUNTY: Graham STATE: KS  
CONTRACTOR: Martin Drilling Co., Inc. Rig #24  
SPUD: 6/4/14 COMP: 6/10/14  
RTD: 3710' LTD: 3707'  
MUD UP: 2939' TYPE MUD: Chemical  
CONDUCTOR: NA  
SURFACE: 8 5/8" @ 221'  
PRODUCTION: 4 1/2" @ 3686'  
EDUCATIONAL SURVEYS: Electrical/Neutron Density  
DUAL INDICATION/NEUTRON DENSITY: Microlog, Sonic  
GEOLOGICAL SUPERVISION FROM: 3367' to RTD  
GEOLOGIST ON WELL: Corey N. Baker  
FORMATION TOPS: ELECTRIC LOG  
SAMPLE: 1775 (+414)  
Base of Anhydrite: 1810 (+379)  
Heebner: 3406 (-1220)  
Lansing: 3441 (-1252)  
Stark: 3617 (-1428)  
BKC: 3654 (-1465)  
RTD: 3707 (-1518)  
LTD: 3710 (-1521)

REMARKS: Based on the results of DST #2, 4 1/2" casing was set to further test the productive potential of the Wasinger Trust 'A' #1-21.

Drill Stem testing by Tate Lang of Trilobite Testing.  
Respectfully Submitted,  
Corey Baker  
Vice President - Exploration  
API #15-065-24046-0000



Summary table with columns: LITHOLOGY, DEPTH, OIL SHOWS, SAMPLE DESCRIPTION, REMARKS.

Company: COBALT ENERGY, LLC Elevation: 2189' KB  
Lease: Wasinger Trust 'A' #1-21  
Location: 863' FSL & 1711' FWL SEC. 21 TWP 8S RGE 22W  
County: Graham State: Kansas



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Corey Baker

**21-8s-22w Graham,KS**

**Wassinger Trust A #1-21**

Start Date: 2014.06.08 @ 02:43:39

End Date: 2014.06.08 @ 10:51:39

Job Ticket #: 58943                      DST #: 1

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

Printed: 2014.06.10 @ 15:04:55





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

ATTN: Corey Baker

Job Ticket: 58943

**DST#: 1**

Test Start: 2014.06.08 @ 02:43:39

## GENERAL INFORMATION:

Formation: **LKC E-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:52:29

Time Test Ended: 10:51:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

**Interval: 3506.00 ft (KB) To 3532.00 ft (KB) (TVD)**

Reference Elevations: 2189.00 ft (KB)

Total Depth: 3532.00 ft (KB) (TVD)

2184.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8898 Outside**

Press@RunDepth: 175.31 psig @ 3509.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.08

End Date:

2014.06.08

Last Calib.:

2014.06.08

Start Time: 02:43:40

End Time:

10:51:39

Time On Btm:

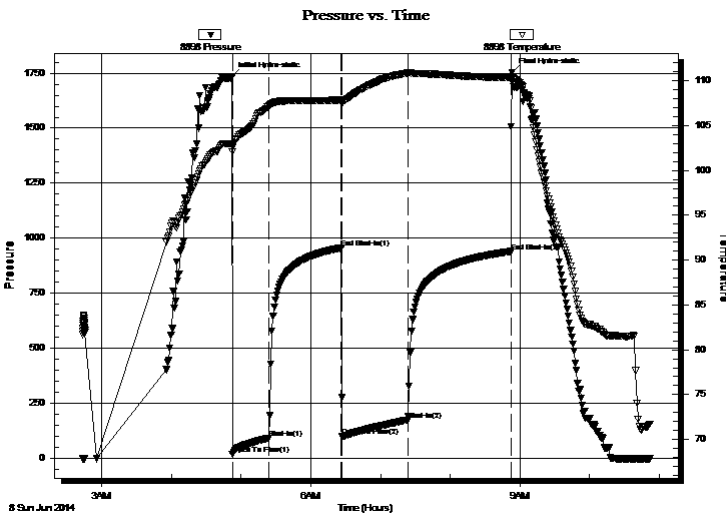
2014.06.08 @ 04:52:19

Time Off Btm:

2014.06.08 @ 08:53:09

**TEST COMMENT:** B.O.B. In 16 mins  
Dead no blow back  
B.O.B. In 18 mins  
Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1734.95	103.02	Initial Hydro-static
1	21.02	102.08	Open To Flow (1)
32	93.70	107.18	Shut-In(1)
94	956.54	107.86	End Shut-In(1)
95	102.34	107.54	Open To Flow (2)
152	175.31	110.88	Shut-In(2)
240	939.30	110.35	End Shut-In(2)
241	1753.28	110.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 80%W 20%M	1.73
60.00	OCMW 20%O 40%W 40%M	0.84
60.00	OCM 20%O 80%M	0.84
65.00	GO 10%G 90%O	0.91
0.00	235 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

ATTN: Corey Baker

Job Ticket: 58943

**DST#: 1**

Test Start: 2014.06.08 @ 02:43:39

## GENERAL INFORMATION:

Formation: **LKC E-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:52:29

Time Test Ended: 10:51:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

**Interval: 3506.00 ft (KB) To 3532.00 ft (KB) (TVD)**

Reference Elevations: 2189.00 ft (KB)

Total Depth: 3532.00 ft (KB) (TVD)

2184.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8897**

**Inside**

Press@RunDepth: psig @ 3509.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.08

End Date: 2014.06.08

Last Calib.: 2014.06.08

Start Time: 02:43:34

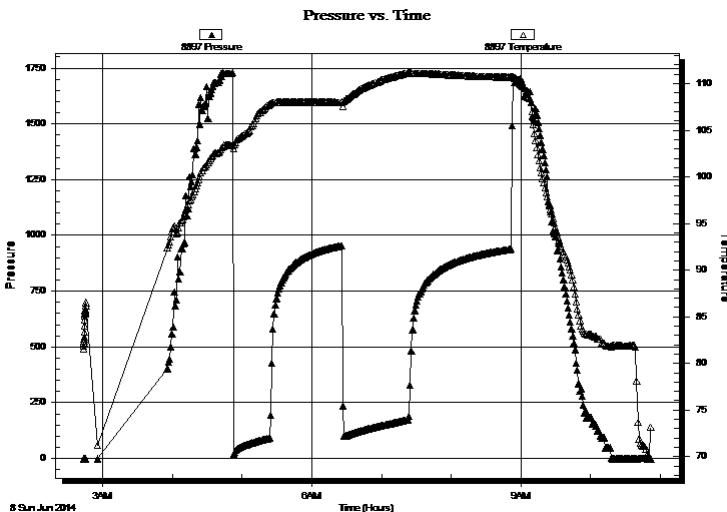
End Time: 10:51:33

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. In 16 mins  
Dead no blow back  
B.O.B. In 18 mins  
Dead no blow back

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 80%W 20%M	1.73
60.00	OCMW 20%O 40%W 40%M	0.84
60.00	OCM 20%O 80%M	0.84
65.00	GO 10%G 90%O	0.91
0.00	235 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

Job Ticket: 58943

**DST#: 1**

ATTN: Corey Baker

Test Start: 2014.06.08 @ 02:43:39

## Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.80 inches	Volume: 48.11 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 87.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 48.54 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3506.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3491.00	
Hydraulic tool	5.00			3496.00	
Packer	5.00			3501.00	20.00 Bottom Of Top Packer
Packer	5.00			3506.00	
Stubb	1.00			3507.00	
Perforations	2.00			3509.00	
Recorder	0.00	8897	Inside	3509.00	
Recorder	0.00	8898	Outside	3509.00	
Perforations	20.00			3529.00	
Bullnose	3.00			3532.00	26.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

Job Ticket: 58943

**DST#: 1**

ATTN: Corey Baker

Test Start: 2014.06.08 @ 02:43:39

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MCW 80%W 20%M	1.732
60.00	OCMW 20%O 40%W 40%M	0.842
60.00	OCM 20%O 80%M	0.842
65.00	GO 10%G 90%O	0.912
0.00	235 GIP	0.000

Total Length: 365.00 ft

Total Volume: 4.328 bbl

Num Fluid Samples: 0

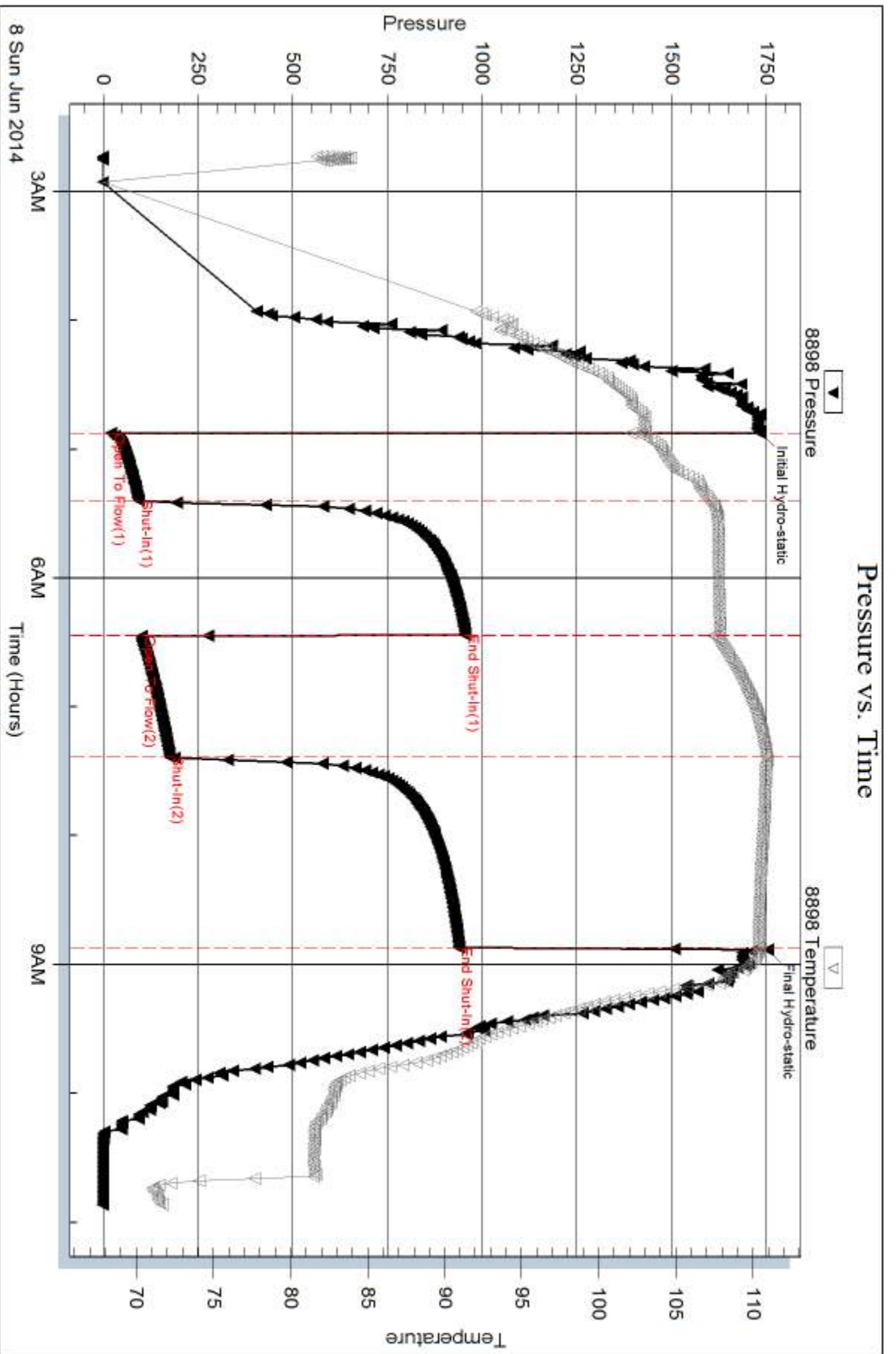
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



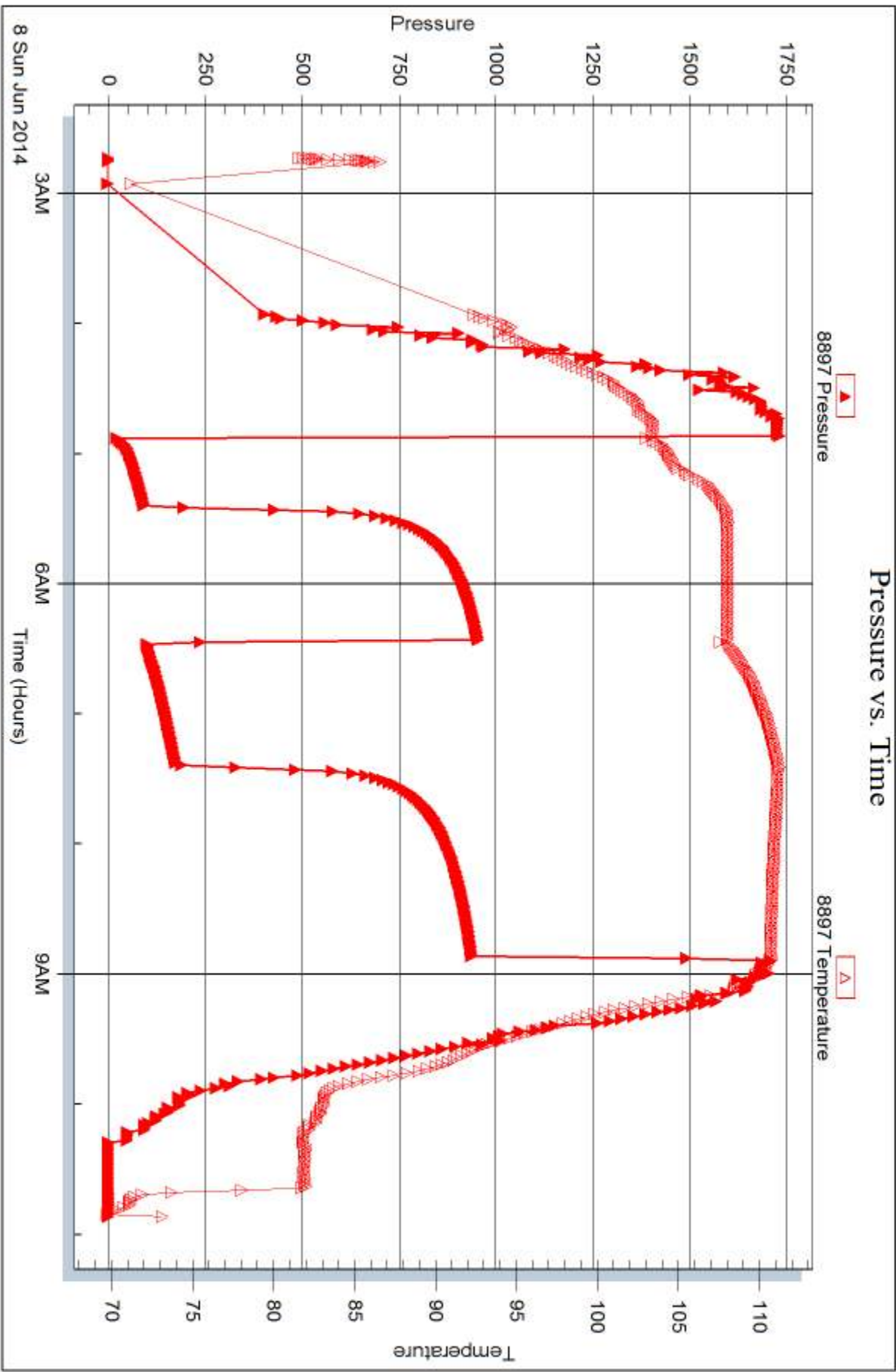
Serial #: 8897

Inside

Cobalt Energy LLC

21-85-22w Graham,KS

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Corey Baker

**21-8s-22w Graham,KS**

**Wassinger Trust A #1-21**

Start Date: 2014.06.08 @ 23:03:35

End Date: 2014.06.09 @ 07:11:35

Job Ticket #: 58944                      DST #: 2

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

Printed: 2014.06.10 @ 15:04:29



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

ATTN: Corey Baker

Job Ticket: 58944

**DST#: 2**

Test Start: 2014.06.08 @ 23:03:35

## GENERAL INFORMATION:

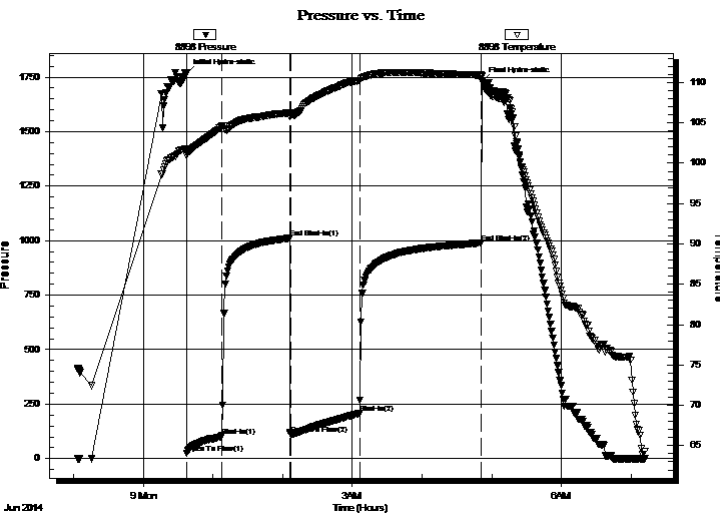
Formation: **LKC H-J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:37:25  
 Time Test Ended: 07:11:35  
 Interval: **3556.00 ft (KB) To 3630.00 ft (KB) (TVD)**  
 Total Depth: 3630.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang  
 Unit No: 49  
 Reference Elevations: 2189.00 ft (KB)  
 2184.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8898

**Outside**

Press@RunDepth: 207.81 psig @ 3563.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.06.08 End Date: 2014.06.09 Last Calib.: 2014.06.09  
 Start Time: 23:03:36 End Time: 07:11:35 Time On Btm: 2014.06.09 @ 00:37:15  
 Time Off Btm: 2014.06.09 @ 04:51:44

TEST COMMENT: B.O.B. in 12 mins  
 Fair blow back built to 6"  
 B.O.B. in 4 mins  
 Strong blow back built to 9"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1768.21	101.65	Initial Hydro-static
1	22.81	100.94	Open To Flow (1)
31	100.89	104.58	Shut-In(1)
89	1012.87	106.26	End Shut-In(1)
90	110.59	106.02	Open To Flow (2)
149	207.81	110.26	Shut-In(2)
254	990.26	110.91	End Shut-In(2)
255	1731.47	110.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	GOCM 30%G 30%O 40%M	2.57
330.00	GO 25%G 75%O	4.63
0.00	330 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Cobalt Energy LLC

PO Box 8037  
Wichita KS 67208

ATTN: Corey Baker

**Wassinger Trust A #1-21**

**21-8s-22w Graham, KS**

Job Ticket: 58944 **DST#: 2**

Test Start: 2014.06.08 @ 23:03:35

**GENERAL INFORMATION:**

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:37:25

Time Test Ended: 07:11:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

**Interval: 3556.00 ft (KB) To 3630.00 ft (KB) (TVD)**

Reference Elevations: 2189.00 ft (KB)

Total Depth: 3630.00 ft (KB) (TVD)

2184.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8897 Inside**

Press@RunDepth: psig @ 3563.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.08

End Date: 2014.06.09

Last Calib.: 2014.06.09

Start Time: 23:03:43

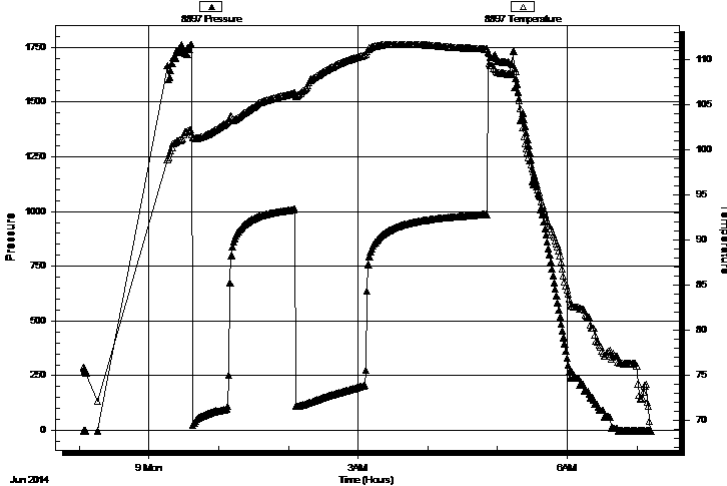
End Time: 07:11:42

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 12 mins  
Fair blow back built to 6"  
B.O.B. in 4 mins  
Strong blow back built to 9"

**Pressure vs. Time**



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
240.00	GOCM 30%G 30%O 40%M	2.57
330.00	GO 25%G 75%O	4.63
0.00	330 GIP	0.00

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

Job Ticket: 58944

**DST#: 2**

ATTN: Corey Baker

Test Start: 2014.06.08 @ 23:03:35

## Tool Information

Drill Pipe:	Length: 3464.00 ft	Diameter: 3.80 inches	Volume: 48.59 bbl	Tool Weight: 2000.00 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: 87.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: 49.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3556.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3541.00	
Hydraulic tool	5.00			3546.00	
Packer	5.00			3551.00	20.00 Bottom Of Top Packer
Packer	5.00			3556.00	
Stubb	1.00			3557.00	
Perforations	6.00			3563.00	
Recorder	0.00	8897	Inside	3563.00	
Recorder	0.00	8898	Outside	3563.00	
Change Over Sub	1.00			3564.00	
Drill Pipe	62.00			3626.00	
Change Over Sub	1.00			3627.00	
Bullnose	3.00			3630.00	74.00 Bottom Packers & Anchor

**Total Tool Length: 94.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

Job Ticket: 58944

**DST#: 2**

ATTN: Corey Baker

Test Start: 2014.06.08 @ 23:03:35

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 56.00 sec/qt  
Water Loss: 5.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1400.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	GOCM 30%G 30%O 40%M	2.574
330.00	GO 25%G 75%O	4.629
0.00	330 GIP	0.000

Total Length: 570.00 ft      Total Volume: 7.203 bbl

Num Fluid Samples: 0

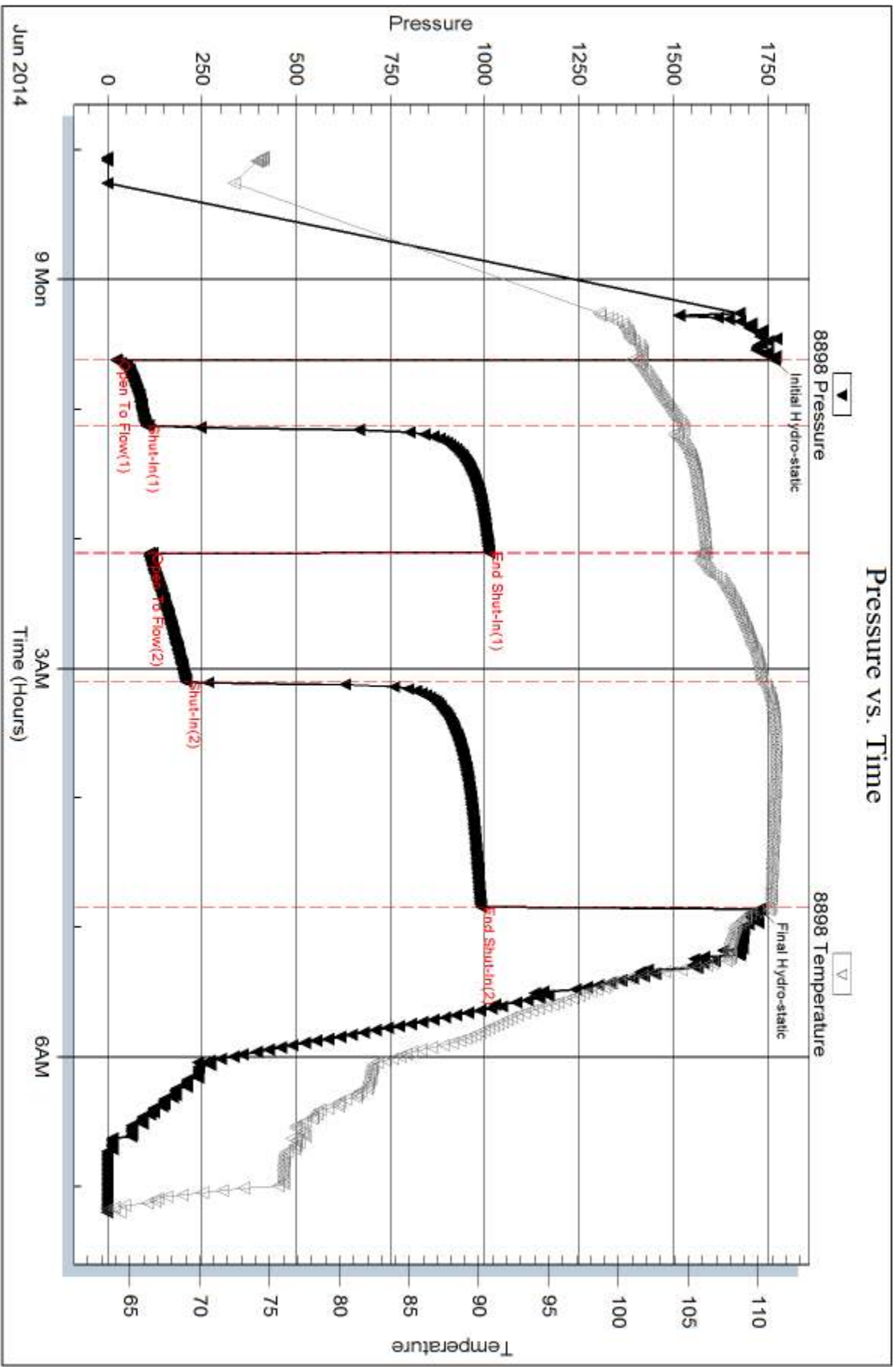
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



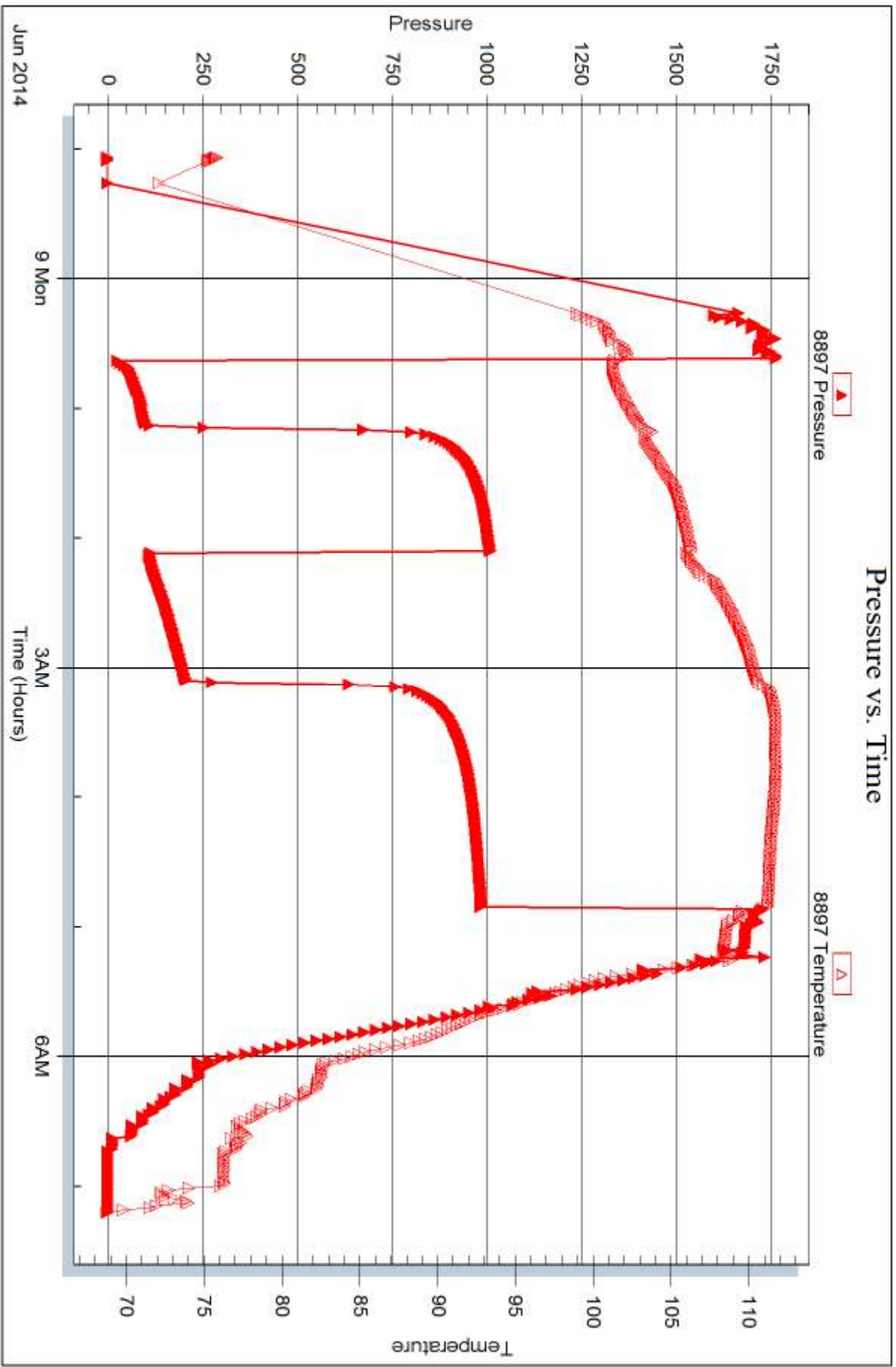
Serial #: 8897

Inside

Cobalt Energy LLC

21-85-22w Graham,KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58944

Printed: 2014.06.10 @ 15:04:30



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita KS 67208

ATTN: Corey Baker

**21-8s-22w Graham,KS**

**Wassinger Trust A #1-21**

Start Date: 2014.06.09 @ 16:46:54

End Date: 2014.06.09 @ 23:56:44

Job Ticket #: 58945                      DST #: 3

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

Printed: 2014.06.10 @ 15:03:53



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

ATTN: Corey Baker

Job Ticket: 58945

**DST#: 3**

Test Start: 2014.06.09 @ 16:46:54

## GENERAL INFORMATION:

Formation: **LKC K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:24:34

Time Test Ended: 23:56:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

**Interval: 3625.00 ft (KB) To 3660.00 ft (KB) (TVD)**

Reference Elevations: 2189.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

2184.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8898 Outside**

Press@RunDepth: 24.31 psig @ 3632.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.09

End Date:

2014.06.09

Last Calib.:

2014.06.09

Start Time:

16:46:55

End Time:

23:56:44

Time On Btm:

2014.06.09 @ 19:24:24

Time Off Btm:

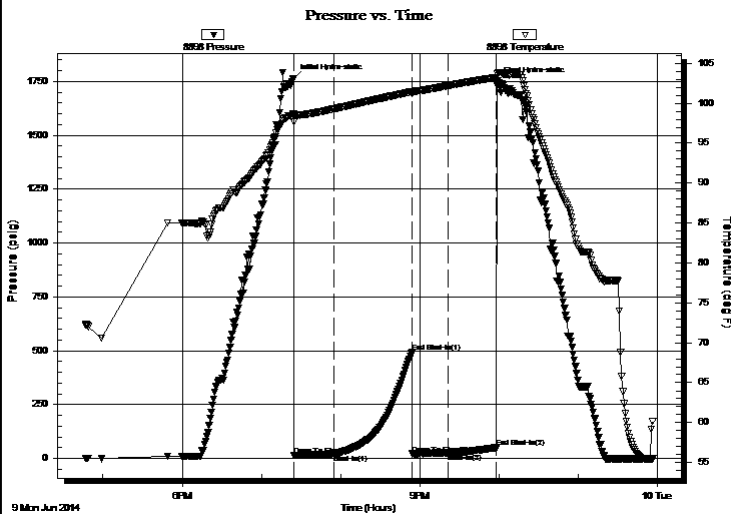
2014.06.09 @ 21:58:24

**TEST COMMENT:** Weak surface blow built to 3/4"

Dead no blow back

Dead no blow

Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.77	98.74	Initial Hydro-static
1	15.37	97.64	Open To Flow (1)
31	19.25	99.28	Shut-In(1)
90	495.16	101.46	End Shut-In(1)
90	21.64	101.29	Open To Flow (2)
118	24.31	102.20	Shut-In(2)
154	50.28	103.24	End Shut-In(2)
154	1751.31	103.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M w ith oil spots	0.05

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Cobalt Energy LLC

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

Job Ticket: 58945

**DST#: 3**

ATTN: Corey Baker

Test Start: 2014.06.09 @ 16:46:54

### GENERAL INFORMATION:

Formation: **LKC K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:24:34

Time Test Ended: 23:56:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: **3625.00 ft (KB) To 3660.00 ft (KB) (TVD)**

Reference Elevations: 2189.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

2184.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8897**

**Inside**

Press@RunDepth: psig @ 3632.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.09

End Date: 2014.06.09

Last Calib.: 2014.06.10

Start Time: 16:46:22

End Time: 23:56:11

Time On Btm:

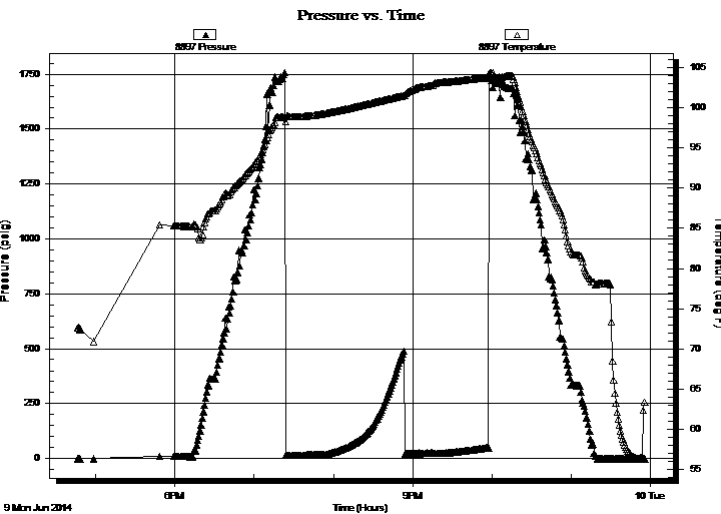
Time Off Btm:

TEST COMMENT: Weak surface blow built to 3/4"

Dead no blow back

Dead no blow

Dead no blow back



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% M with oil spots	0.05

### 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

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

ATTN: Corey Baker

Job Ticket: 58945

**DST#: 3**

Test Start: 2014.06.09 @ 16:46:54

## Tool Information

Drill Pipe:	Length: 3528.00 ft	Diameter: 3.80 inches	Volume: 49.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 23000.00 lb
Drill Collar:	Length: 87.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 49.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3625.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 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
Shut In Tool	5.00			3610.00	
Hydraulic tool	5.00			3615.00	
Packer	5.00			3620.00	20.00 Bottom Of Top Packer
Packer	5.00			3625.00	
Stubb	1.00			3626.00	
Perforations	6.00			3632.00	
Recorder	0.00	8897	Inside	3632.00	
Recorder	0.00	8898	Outside	3632.00	
Perforations	25.00			3657.00	
Bullnose	3.00			3660.00	35.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>55.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**Wassinger Trust A #1-21**

PO Box 8037  
Wichita KS 67208

**21-8s-22w Graham,KS**

Job Ticket: 58945

**DST#: 3**

ATTN: Corey Baker

Test Start: 2014.06.09 @ 16:46:54

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%M w ith oil spots	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

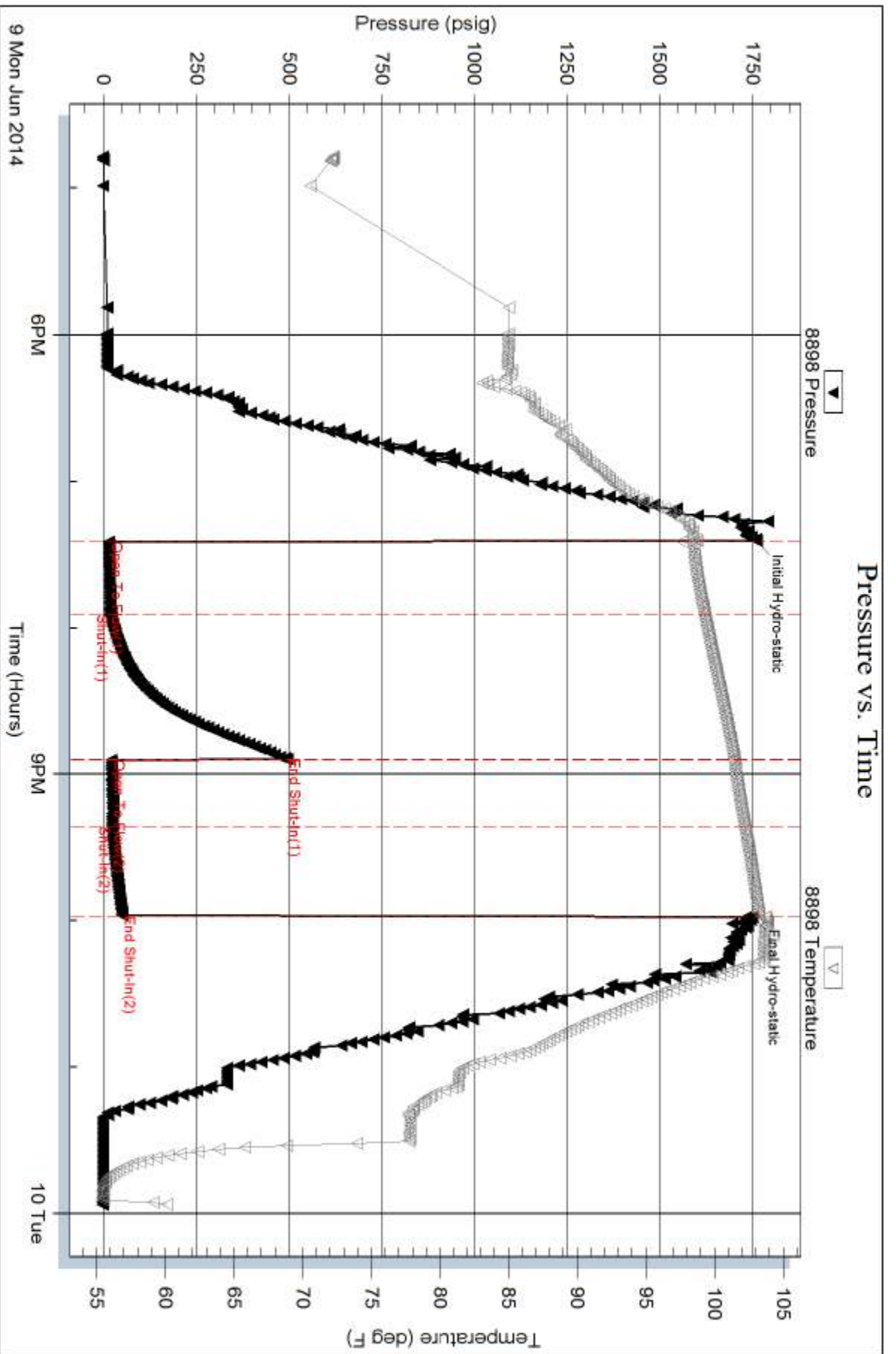
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



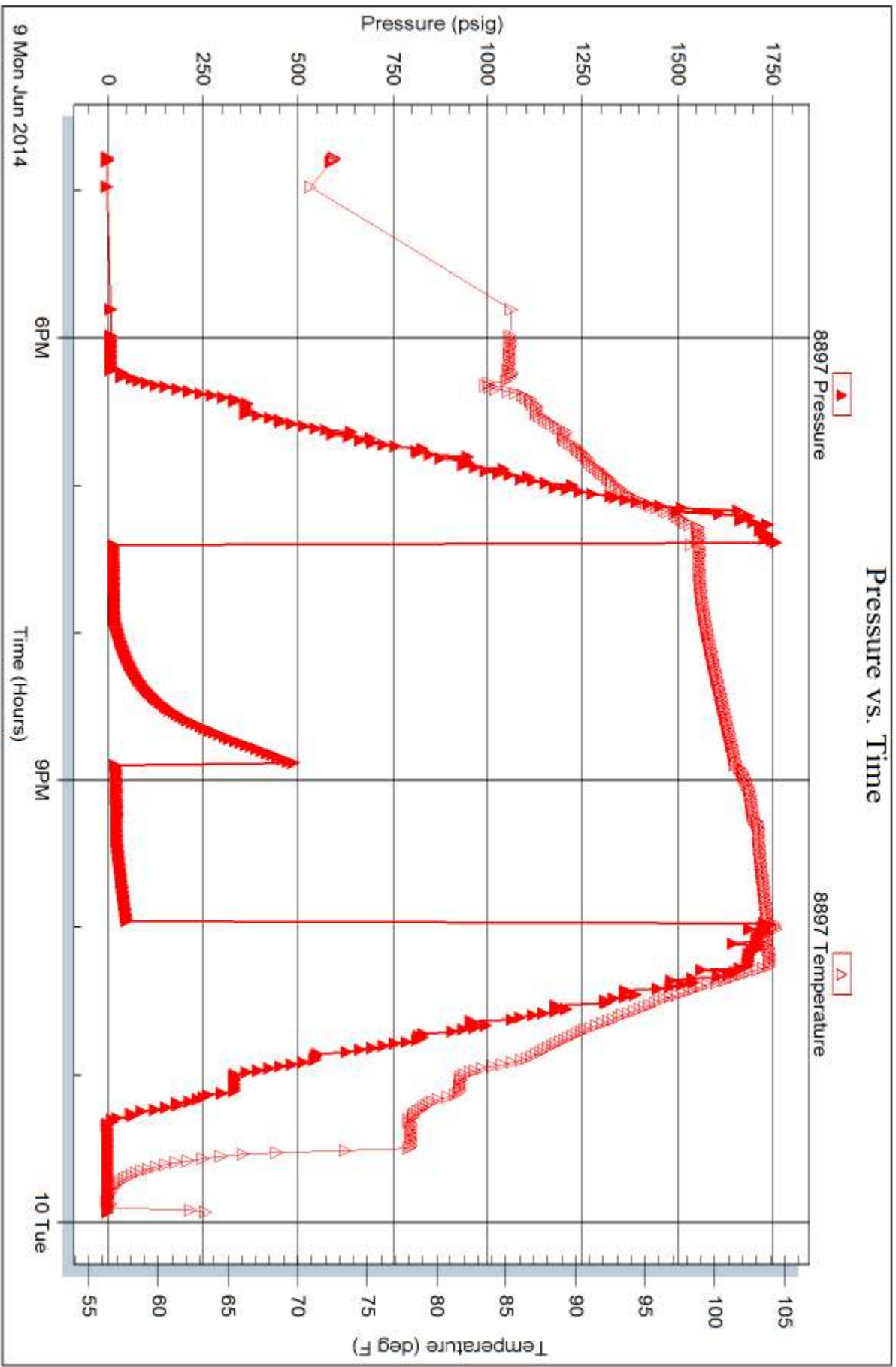
Serial #: 8897

Inside

Cobalt Energy LLC

21-85-22w Graham,KS

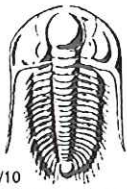
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58945

Printed: 2014.06.10 @ 15:03:54



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58943

4/10

Well Name & No. Wassinger Trust A #1-21 Test No. 1 Date 6-8-14  
 Company Co Salt Energy LLC Elevation 2189 KB 2184 GL  
 Address 115 Belmont #12 / PO Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Corey Baker Rig Murphy #24  
 Location: Sec. 21 Twp. 8S Rge. 22W Co. Graban State KS

Interval Tested 3506 3532 Zone Tested LHC E-G  
 Anchor Length 26 Drill Pipe Run 3430 Mud Wt. 8.7  
 Top Packer Depth 3501 Drill Collars Run 86 Vis 57  
 Bottom Packer Depth 3506 Wt. Pipe Run 0 WL 6.0  
 Total Depth 3532 Chlorides 900 ppm System LCM 2 #

Blow Description B.O.B. In 16mins  
Dead no blow back  
B.O.B. In 18mins  
Dead no blows back

Rec	Feet of	%gas	%oil	%water	%mud
180	MCW			80	20
60	OCMW	20	40	40	40
60	OCM	20		80	80
65	60	10	90		
0	255 GIP	100			

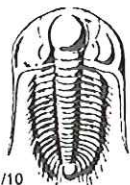
Rec Total 365 BHT 110 Gravity 36 API RW 170 @ 60 °F Chlorides 9000 ppm

(A) Initial Hydrostatic 1735  Test 1150 T-On Location 01:57  
 (B) First Initial Flow 21  Jars 02:43  
 (C) First Final Flow 94  Safety Joint 04:53  
 (D) Initial Shut-In 957  Circ Sub 08:53  
 (E) Second Initial Flow 102  Hourly Standby 10:51  
 (F) Second Final Flow 175  Mileage 122 RH 189.10  
 (G) Final Shut-In 939  Sampler  
 (H) Final Hydrostatic 1753  Straddle  Ruined Shale Packer

Initial Open 30  Shale Packer  Ruined Packer  
 Initial Shut-In 60  Extra Packer  Extra Copies  
 Final Flow 60  Extra Recorder Sub Total 0  
 Final Shut-In 90  Day Standby Total 1339.10  
 Accessibility 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. 58944

Well Name & No. Wassinger Trust A#1-21 Test No. 2 Date 6-8-14  
 Company Cobalt Energy LLC Elevation 2189 KB 2184 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Corey Baker Rig Murfin #24  
 Location: Sec. 21 Twp. 8S Rge. 22W Co. Graham State KS

Interval Tested 3556 3630 Zone Tested LHL H-5  
 Anchor Length 74 Drill Pipe Run 3464 Mud Wt. 8.9  
 Top Packer Depth 3551 Drill Collars Run 87 Vis 56  
 Bottom Packer Depth 3556 Wt. Pipe Run 0 WL 610  
 Total Depth 3630 Chlorides 1400 ppm System LCM 2#

Blow Description B, O, B, IN 12 mins  
& Fair blow back built to 6in  
B, O, B, IN 4 1/2 mins  
Strong blow back built to 9in

Rec	Feet of	%gas	%oil	%water	%mud
<u>240</u>	<u>60 CM</u>	<u>30</u>	<u>30</u>	<u>40</u>	
<u>330</u>	<u>60</u>	<u>25</u>	<u>75</u>		
<u>0</u>	<u>330 GTP</u>	<u>100</u>			

Rec Total 570 BHT 110 Gravity 37 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 1768  Test 1150 T-On Location 2220  
 (B) First Initial Flow 23  Jars \_\_\_\_\_ T-Started 2303  
 (C) First Final Flow 101  Safety Joint \_\_\_\_\_ T-Open 0057  
 (D) Initial Shut-In 1013  Circ Sub \_\_\_\_\_ T-Pulled 0437  
 (E) Second Initial Flow 111  Hourly Standby \_\_\_\_\_ T-Out 0711  
 (F) Second Final Flow 208  Mileage 189.10 Comments \_\_\_\_\_  
 (G) Final Shut-In 990  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1731  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In (d)  
 Final Flow 60  
 Final Shut-In 90  
 Sub Total 0  
 Total 1339.10  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1339.10

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. 58945

Well Name & No. Wassinger Trust A #1-21 Test No. 3 Date 6-9-14  
 Company Cobalt Energy LLC Elevation 2189 KB 2184 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Corey Baker Rig Mentia #24  
 Location: Sec. 21 Twp. 8S Rge. 22W Co. Graham State KS

Interval Tested 3625 3660 Zone Tested LHC - 18-L  
 Anchor Length 35 Drill Pipe Run 3528 Mud Wt. 8.7  
 Top Packer Depth 3620 Drill Collars Run 87 Vis 59  
 Bottom Packer Depth 3625 Wt. Pipe Run 0 WL 6.4  
 Total Depth 3660 Chlorides 1400 ppm System LCM 47

Blow Description Weaken surface blow built to 3/4" in  
Dead no blow back  
Dead no blow back  
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>10</u>	Feet of <u>Mud With Oilspots</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 164 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 1762  Test 1150 T-On Location 16:10  
 (B) First Initial Flow 15  Jars \_\_\_\_\_ T-Started 16:46  
 (C) First Final Flow 19  Safety Joint \_\_\_\_\_ T-Open 19:24  
 (D) Initial Shut-In 495  Circ Sub \_\_\_\_\_ T-Pulled 21:54  
 (E) Second Initial Flow 22  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 24  Mileage 189.10 Comments Loaded After Test  
 (G) Final Shut-In 50  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 751  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer 320  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1339.10

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

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.