



## 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

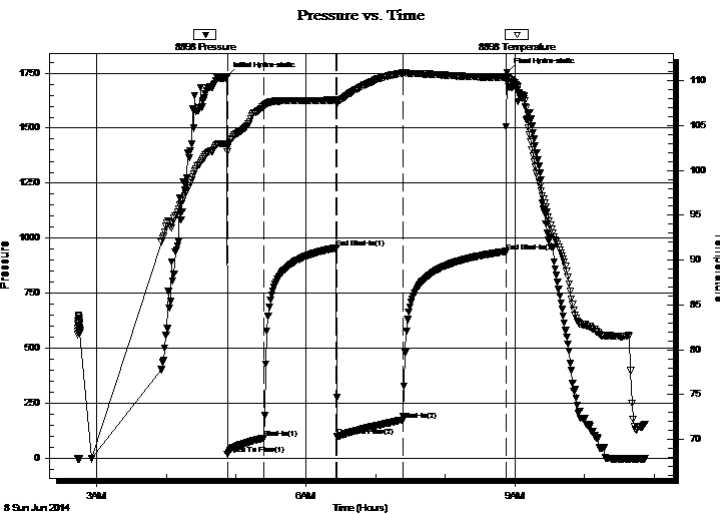
Start Time: 02:43:40

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

\* 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

**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

## 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

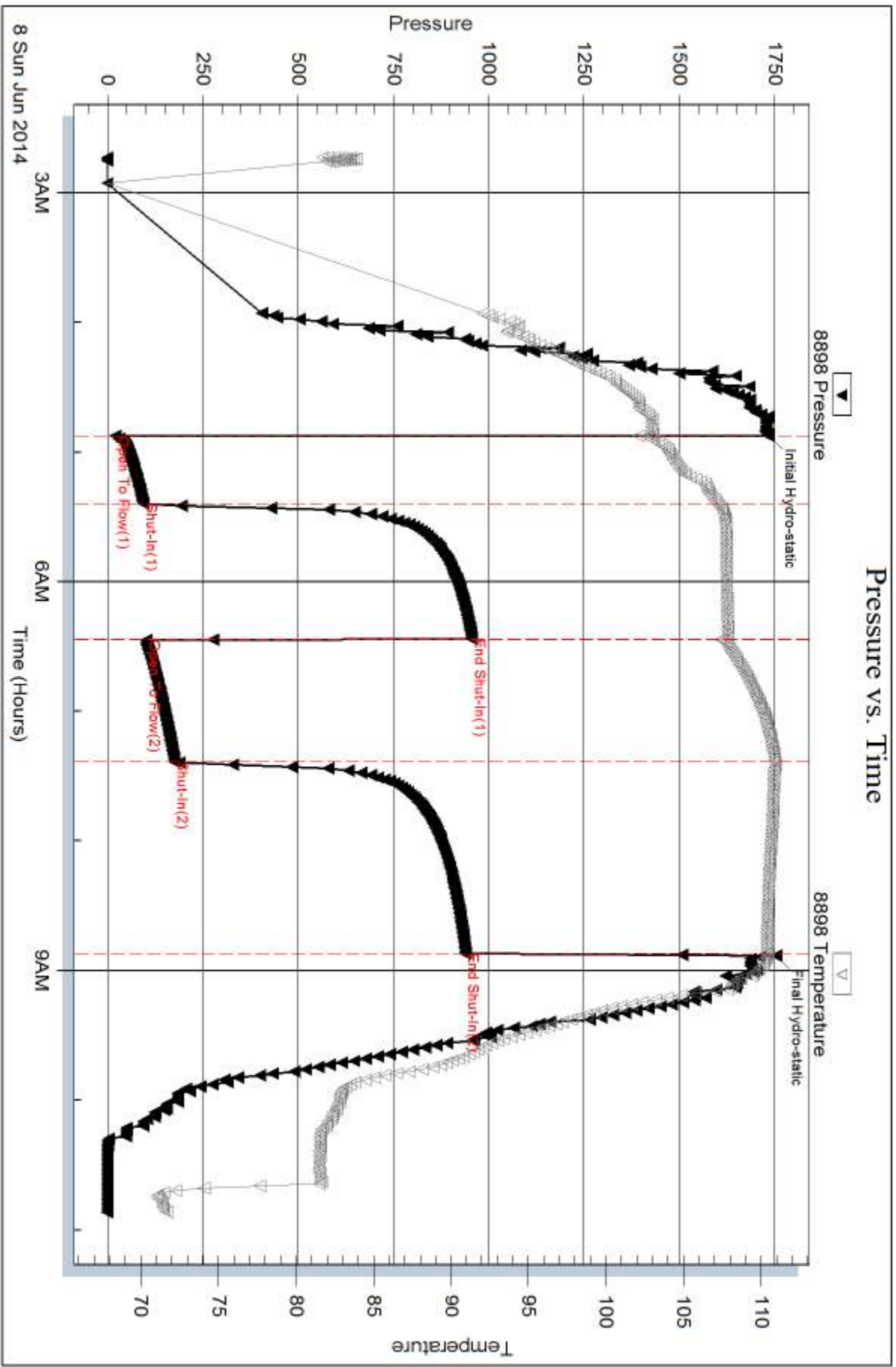
Num Gas Bombs: 0

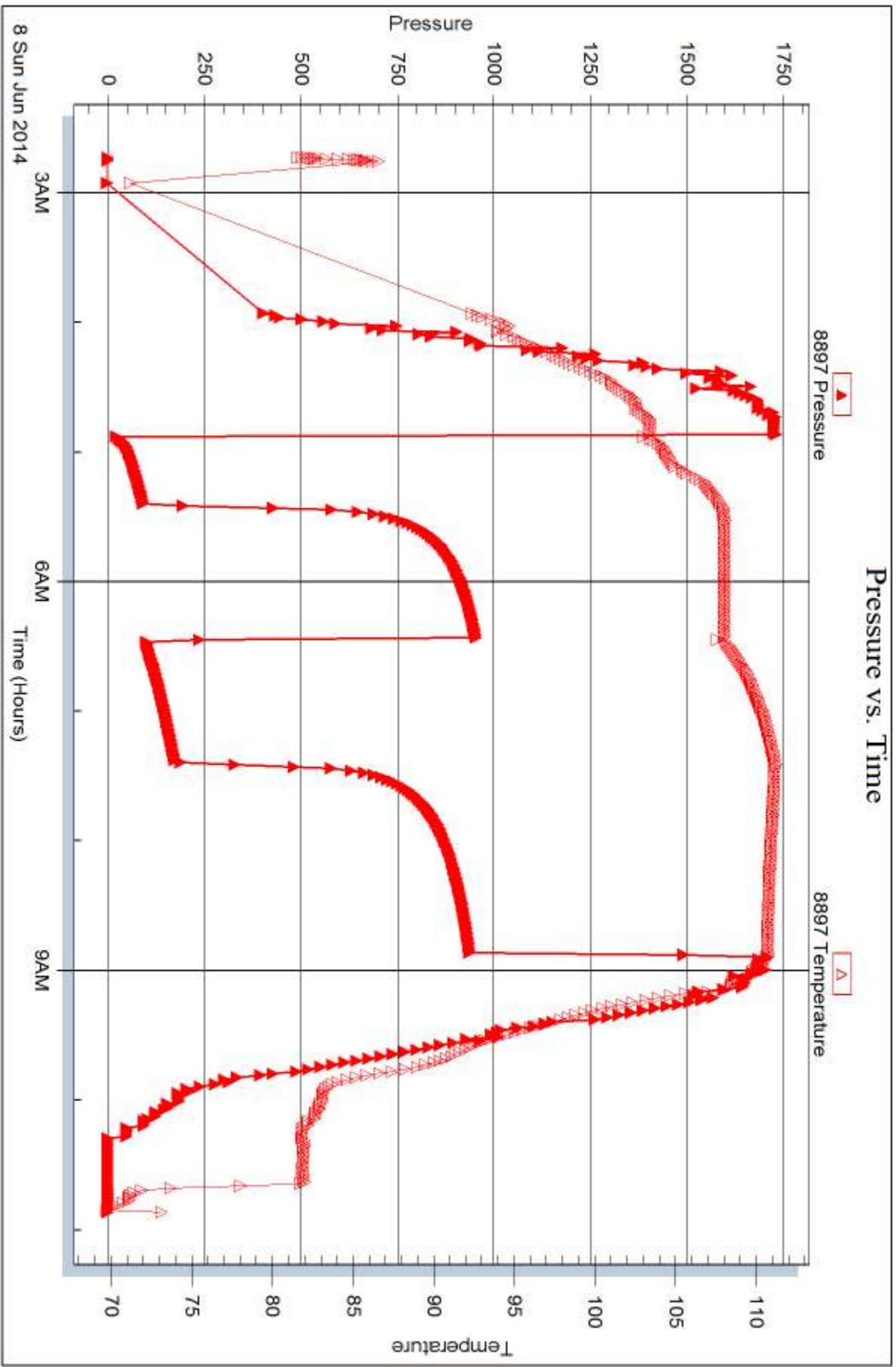
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## 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

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 #: 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:

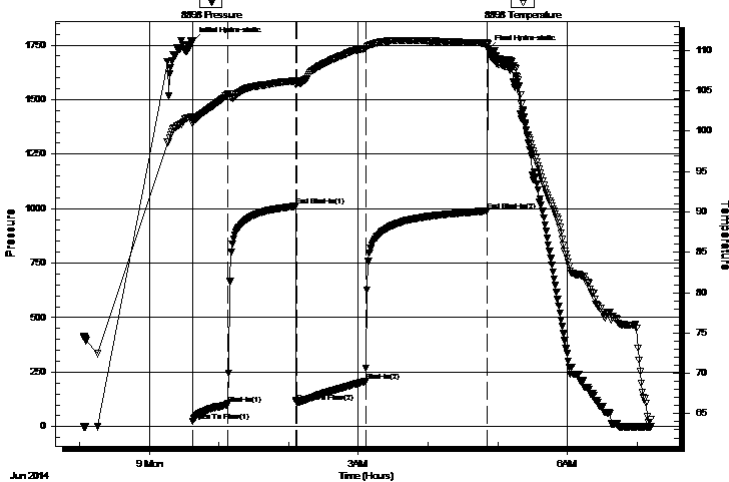
2014.06.09 @ 00:37:15

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 vs. Time



## 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

## 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
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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

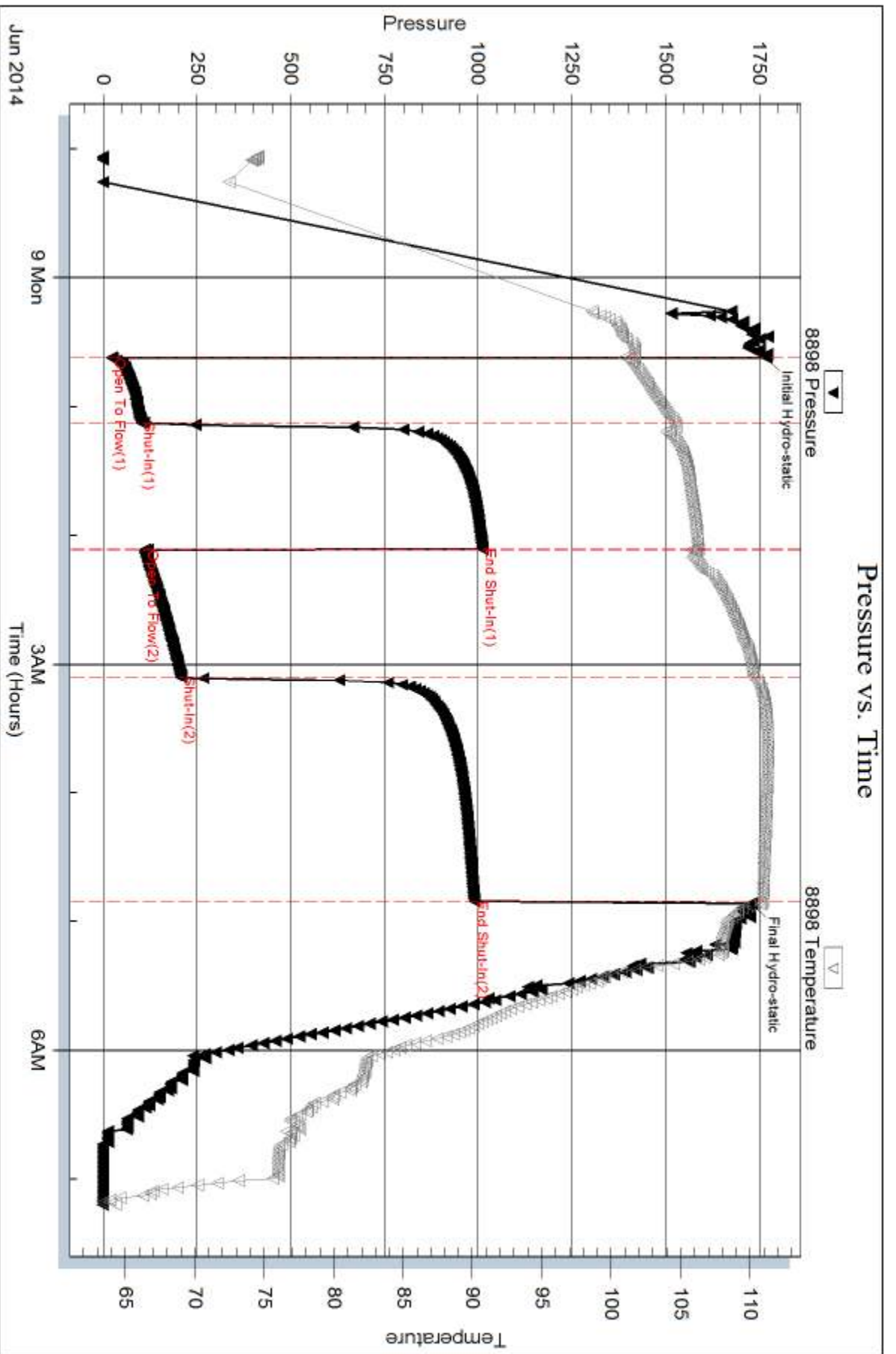
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



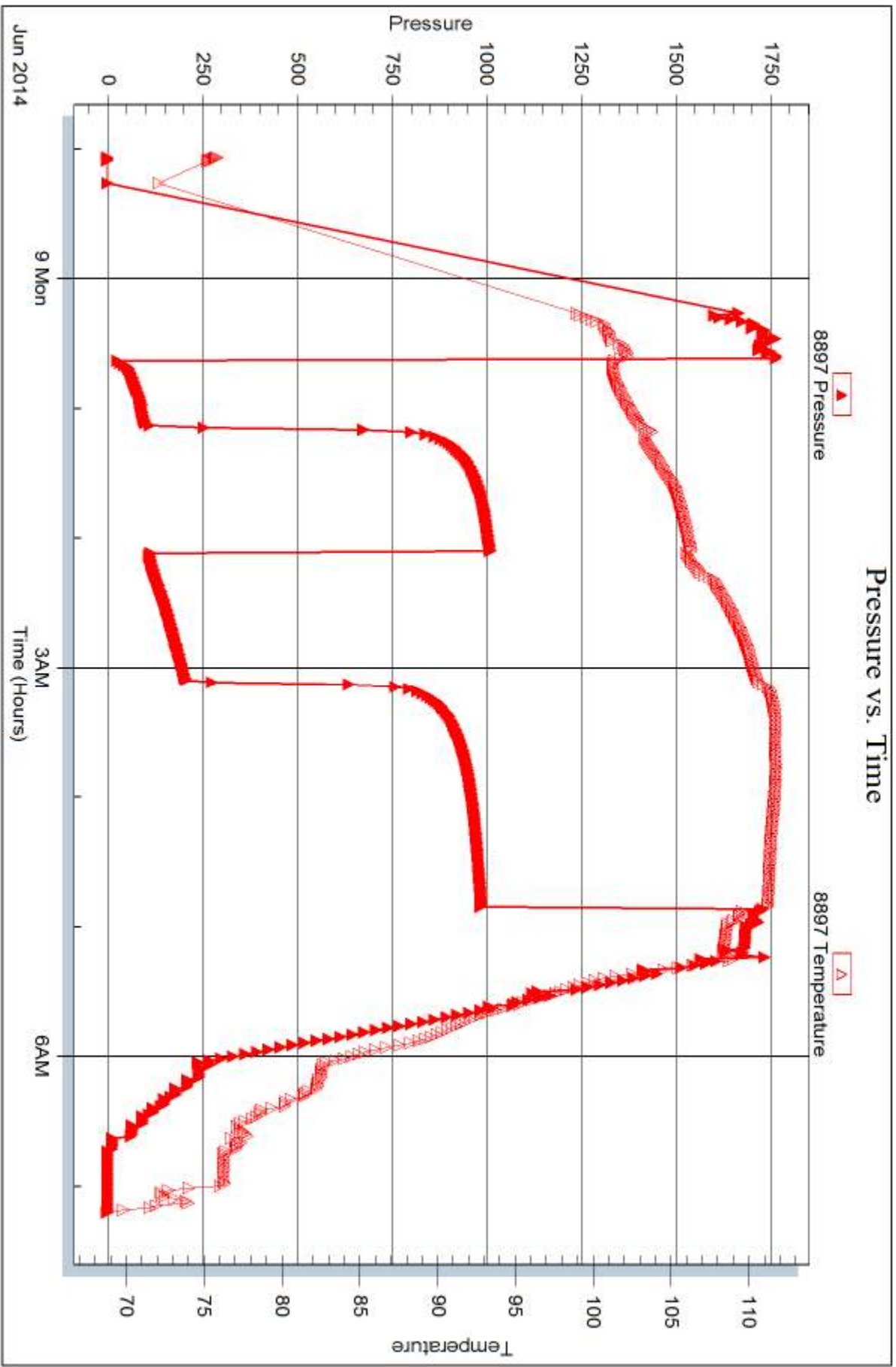
Serial #: 8897

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

Cobalt Energy LLC

Wassinger Trust A #1-21

21-8s-22w Graham,KS

DST # 3

LKC-K-L

2014.06.09



**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: 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:

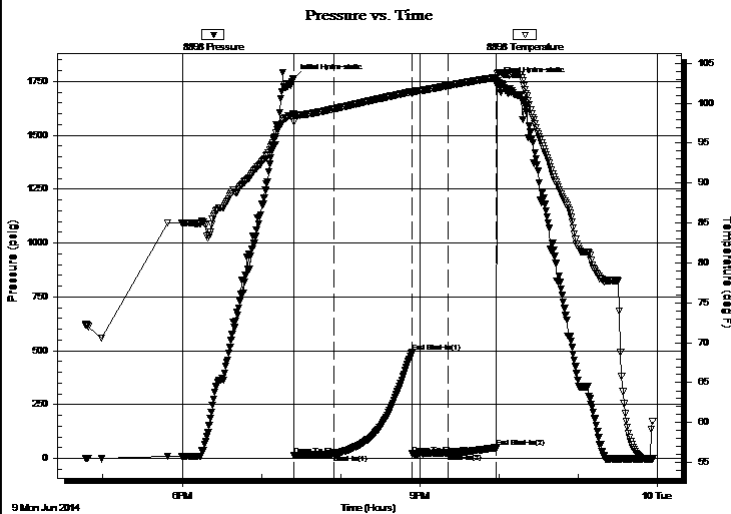
2014.06.09 @ 21:58:24

**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

**TOOL DIAGRAM**

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

## 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: bbl

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

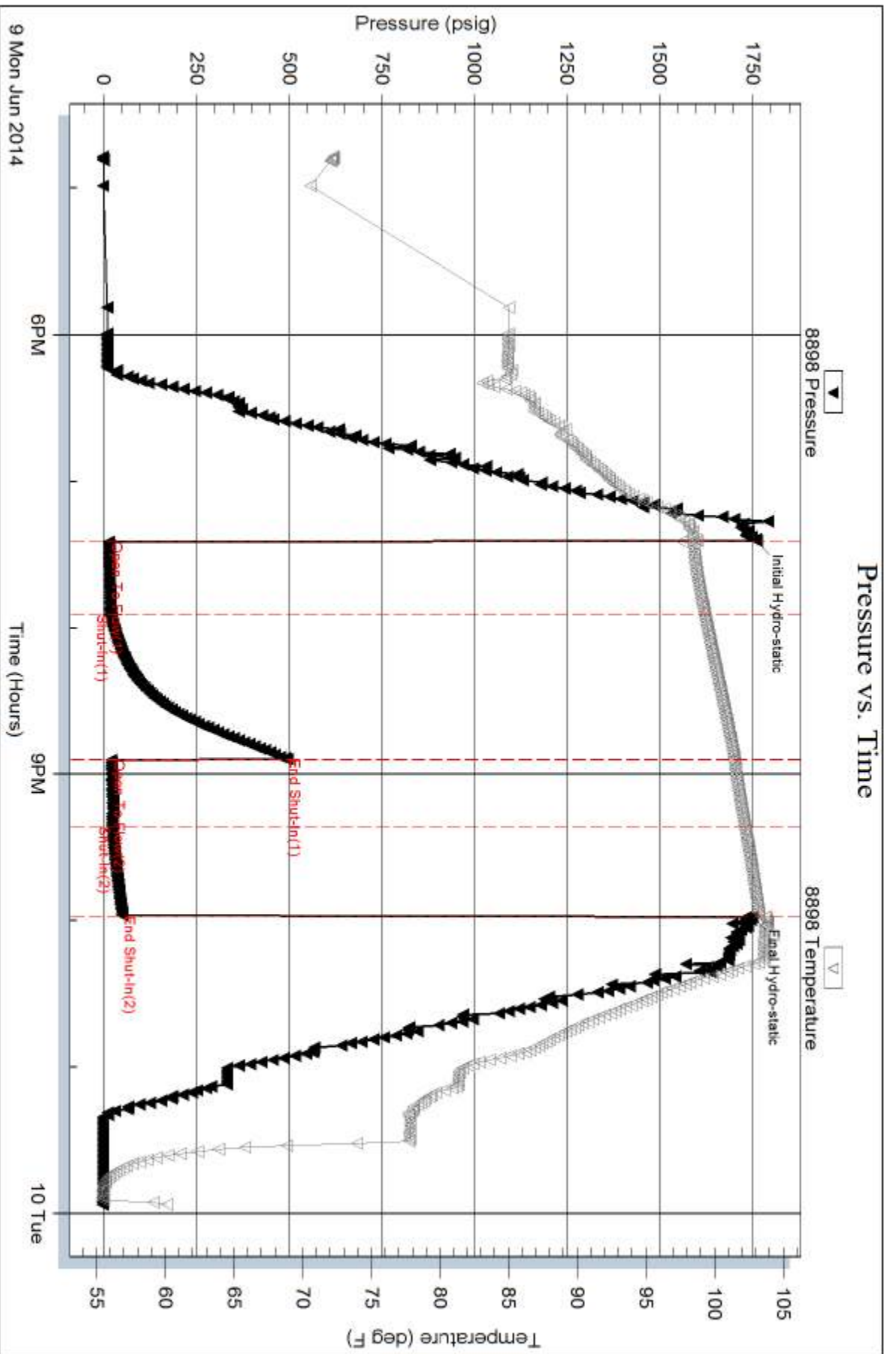
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8897

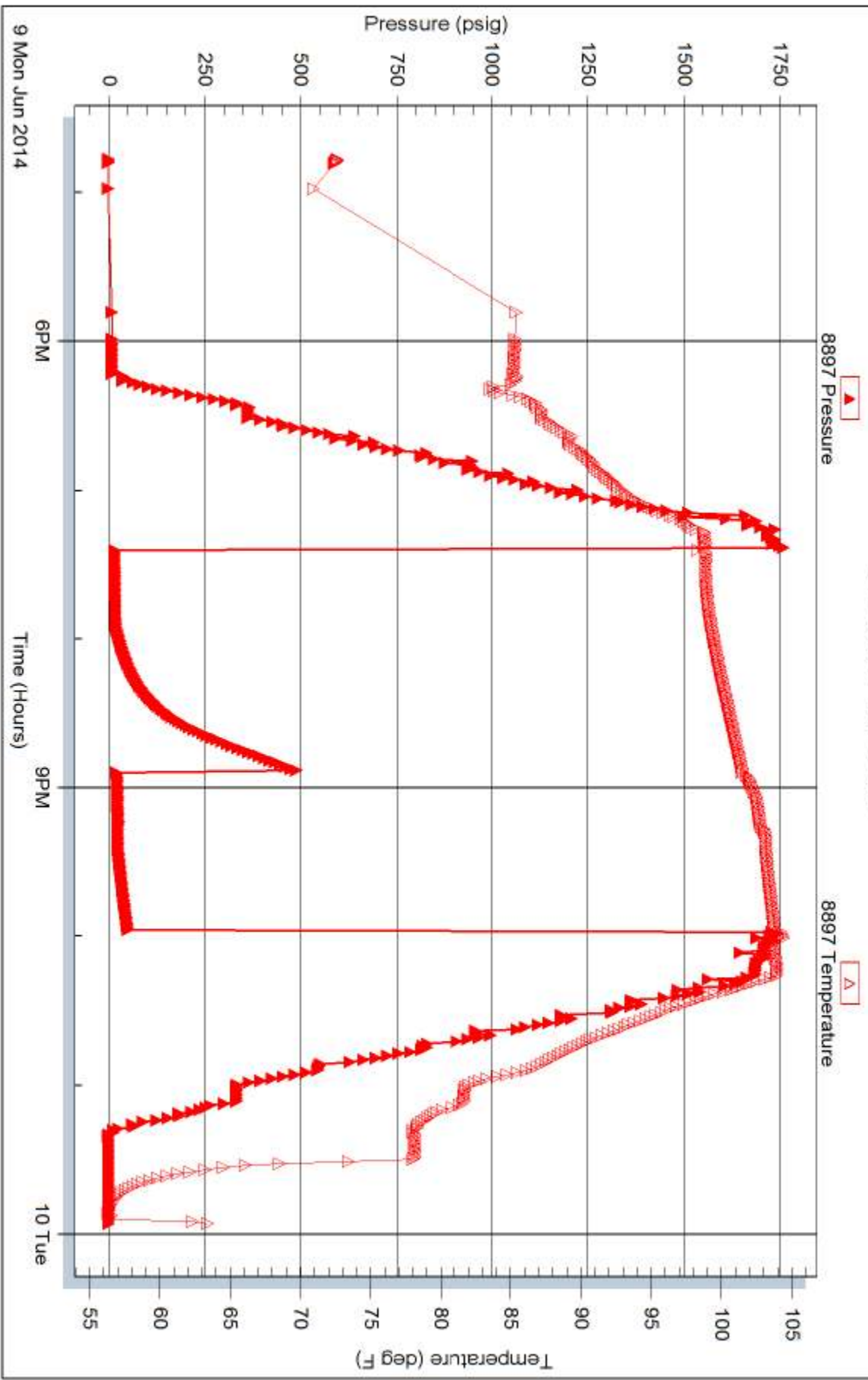
Inside

Cobalt Energy LLC

21-85-22w Graham,KS

DST Test Number: 3

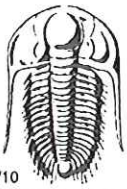
### Pressure vs. Time



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 Murfin #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			

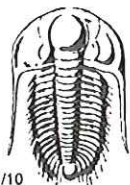
Rec Total 365 BHT 110 Gravity 36 API RW 170 @ 60 °F Chlorides 9000 ppm

(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

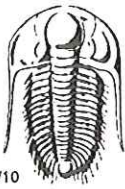
Rec	Feet of	%gas	%oil	%water	%mud
<u>240</u>	<u>60CM</u>	<u>30</u>	<u>30</u>	<u>40</u>	
<u>330</u>	<u>60</u>	<u>25</u>	<u>75</u>		
<u>0</u>	<u>330 GTP</u>	<u>100</u>			

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  
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]  
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