



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Corey Baker/Nicholas

Wesley "A" #1-15

15-11s-25w Trego,KS

Start Date: 2014.09.14 @ 14:49:00

End Date: 2014.09.15 @ 00:06:00

Job Ticket #: 58742 DST #: 1

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

Printed: 2014.09.16 @ 13:50:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

15-11s-25w Trego,KS

PO Box 8037
Wichita, KS 67208

Wesley "A" #1-15

Job Ticket: 58742

DST#: 1

ATTN: Corey Baker/Nicholas

Test Start: 2014.09.14 @ 14:49:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:50:00

Time Test Ended: 00:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 58

Interval: 3824.00 ft (KB) To 3850.00 ft (KB) (TVD)

Reference Elevations: 2458.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

2453.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8679

Inside

Press@RunDepth: 755.91 psig @ 3825.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.14

End Date:

2014.09.15

Last Calib.:

2014.09.15

Start Time: 14:49:01

End Time:

00:06:00

Time On Btm:

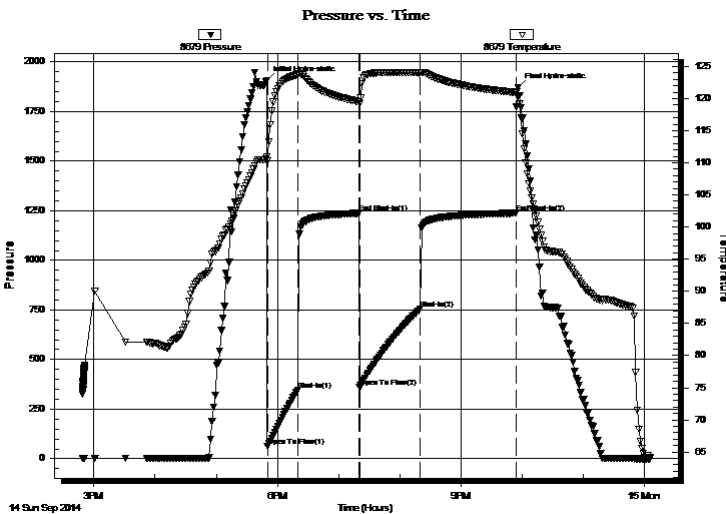
2014.09.14 @ 17:49:30

Time Off Btm:

2014.09.14 @ 21:56:00

TEST COMMENT: 30-IF-BOB in 4 mins.
60-ISI-Weak Surface Blow in 11 mins, died in 40 mins.
60-FF-BOB in 5 mins
90-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.02	110.86	Initial Hydro-static
1	64.30	110.22	Open To Flow (1)
31	345.68	123.69	Shut-In(1)
91	1238.04	119.48	End Shut-In(1)
91	362.12	119.18	Open To Flow (2)
151	755.91	123.99	Shut-In(2)
245	1238.24	120.94	End Shut-In(2)
247	1871.62	120.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1323.00	VSMCW, 5%w, 95%w	18.28
229.00	MW, 50%w, 50%w	3.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

15-11s-25w Trego,KS

PO Box 8037
Wichita, KS 67208

Wesley "A" #1-15

Job Ticket: 58742

DST#: 1

ATTN: Corey Baker/Nicholas

Test Start: 2014.09.14 @ 14:49:00

Tool Information

Drill Pipe:	Length: 3798.00 ft	Diameter: 3.80 inches	Volume: 53.28 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 53.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3824.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	53.00 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			3798.00	
Shut In Tool	5.00			3803.00	
Hydraulic tool	5.00			3808.00	
Jars	5.00			3813.00	
Safety Joint	2.00			3815.00	
Packer	4.00			3819.00	27.00 Bottom Of Top Packer
Packer	5.00			3824.00	
Stubb	1.00			3825.00	
Recorder	0.00	6625	Outside	3825.00	
Recorder	0.00	8679	Inside	3825.00	
Perforations	21.00			3846.00	
Bullnose	4.00			3850.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

15-11s-25w Trego,KS

PO Box 8037
Wichita, KS 67208

Wesley "A" #1-15

Job Ticket: 58742

DST#: 1

ATTN: Corey Baker/Nicholas

Test Start: 2014.09.14 @ 14:49:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 0.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1323.00	VSMCW, 5%m, 95%w	18.285
229.00	MW, 50%m, 50%w	3.212

Total Length: 1552.00 ft Total Volume: 21.497 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

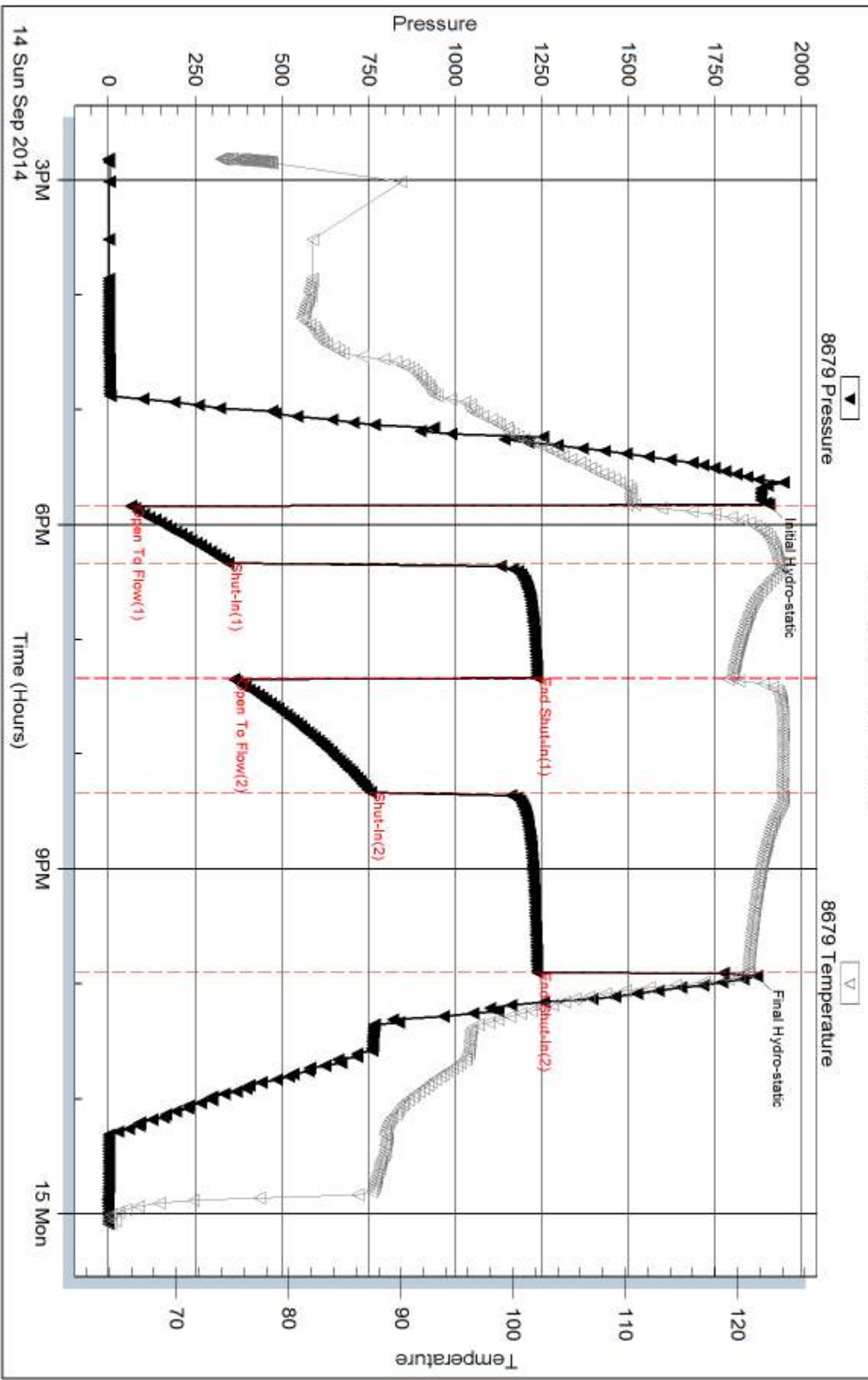
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .08 @ 61 degrees = 49,000 Salinity

Pressure vs. Time

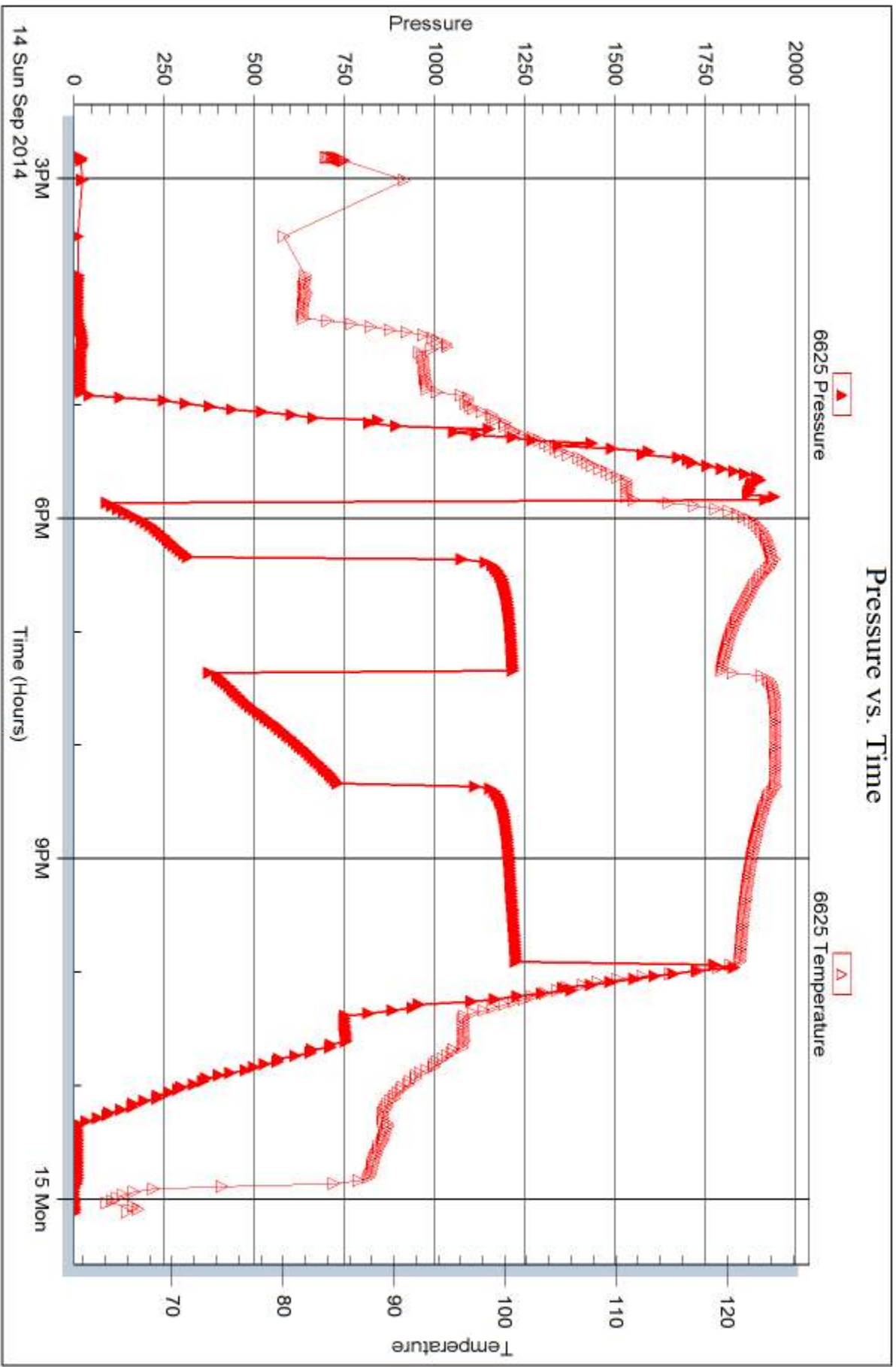


Serial #: 6625

Outside Cobalt Energy, LLC

Wesley "A" #1-15

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58742

Printed: 2014.09.16 @ 13:50:57



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Corey Baker/Nicholas

Wesley "A" #1-15

15-11s-25w Trego,KS

Start Date: 2014.09.15 @ 17:30:00

End Date: 2014.09.15 @ 23:22:00

Job Ticket #: 60531 DST #: 2

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

Printed: 2014.09.16 @ 13:50:25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

15-11s-25w Trego,KS

PO Box 8037
Wichita, KS 67208

Wesley "A" #1-15

Job Ticket: 60531

DST#: 2

ATTN: Corey Baker/Nicholas

Test Start: 2014.09.15 @ 17:30:00

GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:54:00

Time Test Ended: 23:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 58

Interval: 3934.00 ft (KB) To 4014.00 ft (KB) (TVD)

Reference Elevations: 2458.00 ft (KB)

Total Depth: 4014.00 ft (KB) (TVD)

2453.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8679 Inside

Press@RunDepth: 68.10 psig @ 4002.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.15

End Date:

2014.09.15

Last Calib.:

2014.09.15

Start Time: 17:30:01

End Time:

23:22:00

Time On Btm:

2014.09.15 @ 18:52:30

Time Off Btm:

2014.09.15 @ 21:34:30

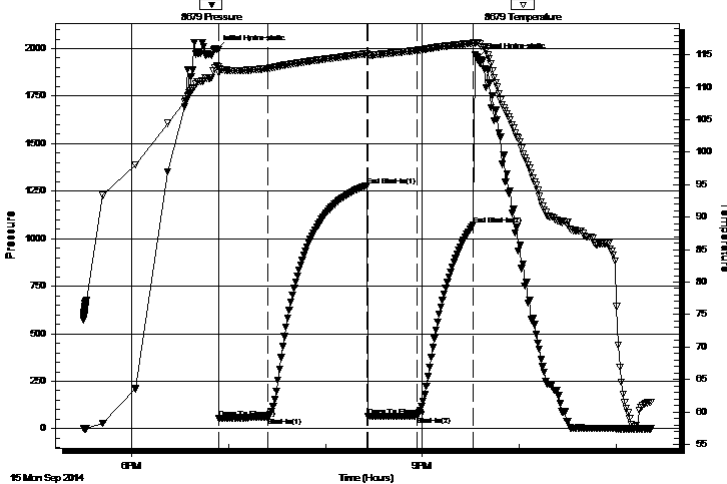
TEST COMMENT: I.F. - 30 - Weak blow built to 3/4"

I.S.I. - 60 - No blow back

F.F. - 30 - No blow

F.S.I. - 30 - No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.77	113.27	Initial Hydro-static
2	55.73	112.28	Open To Flow (1)
32	60.42	112.91	Shut-In(1)
93	1279.24	115.15	End Shut-In(1)
94	63.88	114.86	Open To Flow (2)
124	68.10	115.68	Shut-In(2)
159	1073.91	116.80	End Shut-In(2)
162	1953.78	116.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	W,M, 20%W 80%M	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

15-11s-25w Trego,KS

PO Box 8037
Wichita, KS 67208

Wesley "A" #1-15

Job Ticket: 60531

DST#: 2

ATTN: Corey Baker/Nicholas

Test Start: 2014.09.15 @ 17:30:00

Tool Information

Drill Pipe:	Length: 3891.00 ft	Diameter: 3.80 inches	Volume: 54.58 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: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 54.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3934.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	107.00 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			3908.00	
Shut In Tool	5.00			3913.00	
Hydraulic tool	5.00			3918.00	
Jars	5.00			3923.00	
Safety Joint	2.00			3925.00	
Packer	4.00			3929.00	27.00 Bottom Of Top Packer
Packer	5.00			3934.00	
Stubb	1.00			3935.00	
Perforations	2.00			3937.00	
Change Over Sub	1.00			3938.00	
Drill Pipe	63.00			4001.00	
Change Over Sub	1.00			4002.00	
Recorder	0.00	6625	Outside	4002.00	
Recorder	0.00	8679	Inside	4002.00	
Perforations	8.00			4010.00	
Bullnose	4.00			4014.00	80.00 Bottom Packers & Anchor
Total Tool Length:	107.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

15-11s-25w Trego,KS

PO Box 8037
Wichita, KS 67208

Wesley "A" #1-15

Job Ticket: 60531

DST#: 2

ATTN: Corey Baker/Nicholas

Test Start: 2014.09.15 @ 17:30:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 0.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	W,M, 20%W 80%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

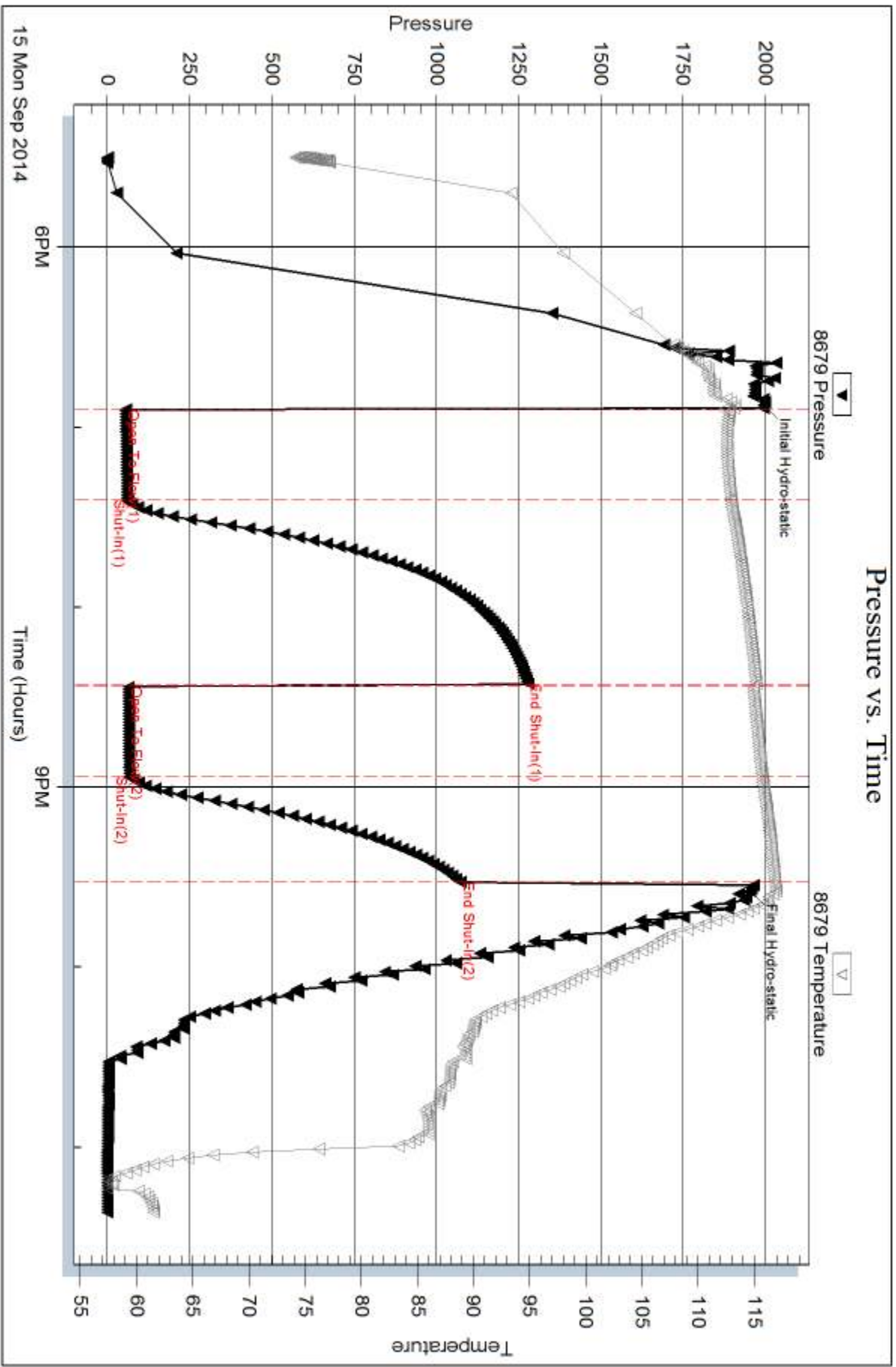
Serial #: 8679

Inside

Cobalt Energy, LLC

Wesley "A" #1-15

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 60531

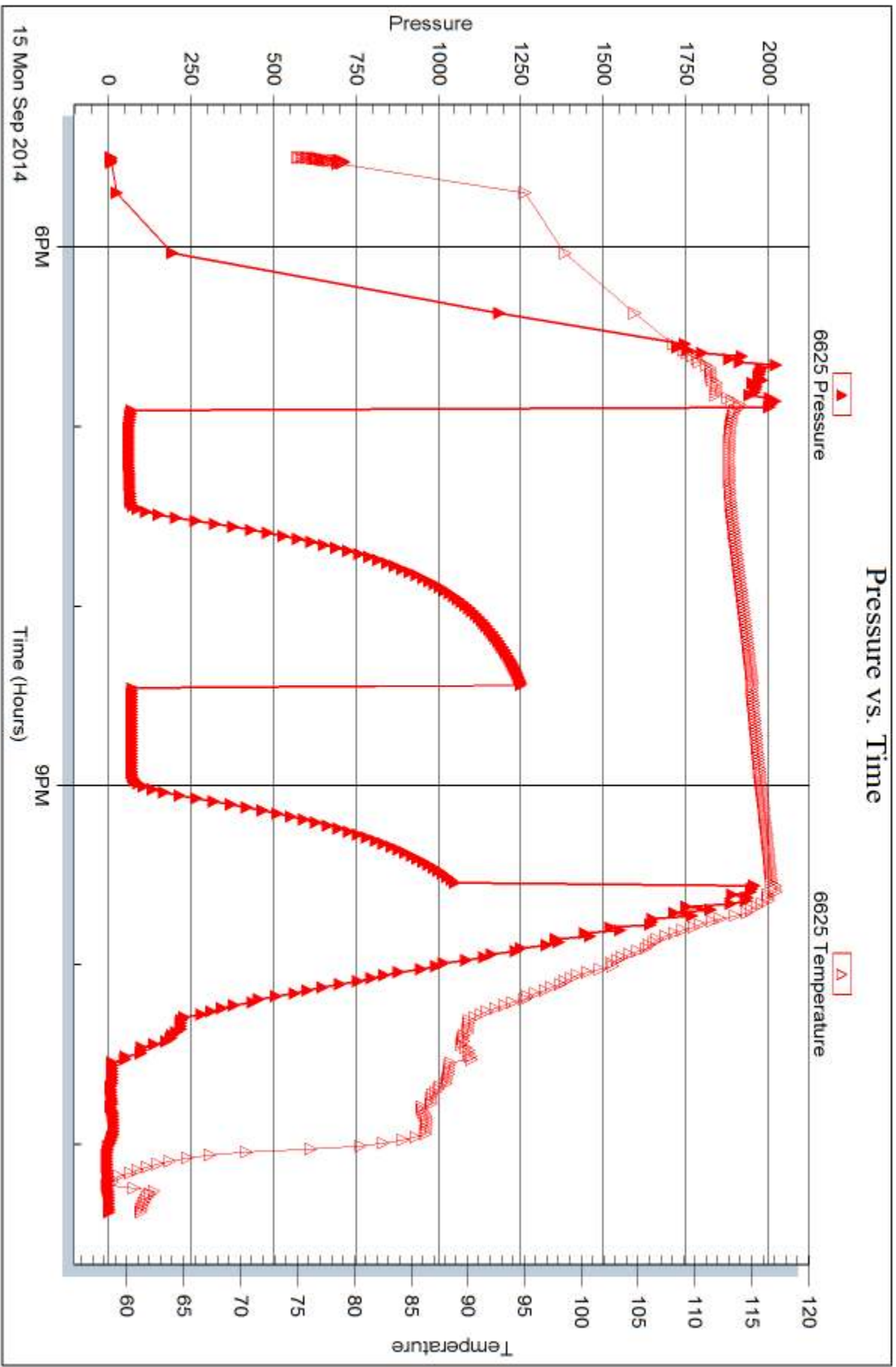
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Serial #: 6625

Outside Cobalt Energy, LLC

Wesley "A" #1-15

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60531

Printed: 2014.09.16 @ 13:50:27



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58742

4/10

Well Name & No.	Wesley "A" #1-15	Test No.	1	Date	9-14-14
Company	Cobalt Energy LLC	Elevation	2458	KB	2453
Address	1155, Belmont #12 P.O. Box 8037 Wichita, KS 67208				
Co. Rep / Geo.	Corcy Baker / Nicholas Hess	Rig	Martin 16		
Location: Sec.	15	Twp.	11s	Rge.	25w
		Co.	Trigo	State	KS

Interval Tested	3824-3850	Zone Tested	LKC "C-D"
Anchor Length	26'	Drill Pipe Run	3798
Top Packer Depth	3819	Drill Collars Run	30
Bottom Packer Depth	3824	Wt. Pipe Run	0
Total Depth	3850	Chlorides	1,900 ppm System
		LCM	1/2#

Blow Description IF BOB in 4 mths
 ISI Weak Surface Blow @ 11 mths, died in 40 mths.
 FF BOB in 5 mths
 FSI No Return

Rec	Feet of	%gas	%oil	%water	%mud
1323'	VSOMCW			95%	5%
229'	MW			50%	50%

Rec Total	1552'	BHT	120	Gravity	—	API RW	08 @ 61 ° F	Chlorides	49,000	ppm
(A) Initial Hydrostatic	1906	<input checked="" type="checkbox"/> Test	1150	T-On Location	14.15					
(B) First Initial Flow	64	<input checked="" type="checkbox"/> Jars	250	T-Started	14.49					
(C) First Final Flow	345	<input checked="" type="checkbox"/> Safety Joint	75	T-Open	17.51					
(D) Initial Shut-In	1,238	<input type="checkbox"/> Circ Sub		T-Pulled	21.51					
(E) Second Initial Flow	362	<input type="checkbox"/> Hourly Standby		T-Out	00.08					
(F) Second Final Flow	755	<input checked="" type="checkbox"/> Mileage	108 RT 167.40	Comments						
(G) Final Shut-In	1,238	<input type="checkbox"/> Sampler								
(H) Final Hydrostatic	1,871	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer						
Initial Open	30	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer						
Initial Shut-In	60	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies						
Final Flow	60	<input type="checkbox"/> Extra Recorder		Sub Total	0					
Final Shut-In	90	<input type="checkbox"/> Day Standby		Total	1642.40					
		<input type="checkbox"/> Accessibility		MP/DST Disc't						
		Sub Total	1642.40							

Approved By _____ Our Representative Phil Gray Thank You

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. 60531

4/10

Well Name & No. Wesley "A" #1-15 Test No. 2 Date 9-15-14
 Company Cobalt Energy Elevation 2458 KB 2453 GL
 Address P.O. Box 8037 Wichita KS, 67208
 Co. Rep / Geo. Corey Baker / Nicholas D. Hess Rig Murfin #16
 Location: Sec. 15 Twp. 11 S, Rge. 25 W Co. rego State KS.

Interval Tested 3934 - 4014 Zone Tested A.H.C. "H-H"
 Anchor Length 80' Drill Pipe Run 3891 Mud Wt. 9.4
 Top Packer Depth 3929 Drill Collars Run 31' Vis 58
 Bottom Packer Depth 3934 Wt. Pipe Run — WL 7.6
 Total Depth 4014 Chlorides 2,400 ppm System LCM Trace

Blow Description I.F.-30-1/4" Int. Blow Built to (3/4" in 30 min.)
Z.S.I.-60-No B.B
E.F.-30-No Blow
F.S.I.-30-No B.B

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>W, M</u>			<u>20</u>	<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1996</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>16:45:00</u>
(B) First Initial Flow <u>56</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>17:30:00</u>
(C) First Final Flow <u>60</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>19:05:00</u>
(D) Initial Shut-In <u>1279</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>21:35:00</u>
(E) Second Initial Flow <u>64</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:22:00</u>
(F) Second Final Flow <u>68</u>	<input checked="" type="checkbox"/> Mileage <u>108 / R.T.</u> 167.40	Comments <u>"Thank-you"</u>
(G) Final Shut-In <u>1074</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1954</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer

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

Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1642.40

Approved By _____ Our Representative Bob Horn
 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.