



DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver CO 80202

ATTN: Bruce Ard

K&K #1-31

31-1s-31w Rawlins,KS

Start Date: 2012.09.25 @ 01:05:00

End Date: 2012.09.25 @ 08:24:00

Job Ticket #: 48201 DST #: 1

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

Printed: 2012.10.02 @ 09:45:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp.
 1801 Broadway #900
 Denver CO 80202
 ATTN: Bruce Ard

31-1s-31w Rawlins, KS

K&K #1-31

Job Ticket: 48201

DST#: 1

Test Start: 2012.09.25 @ 01:05:00

GENERAL INFORMATION:

Formation: **Oread- LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:00:00

Time Test Ended: 08:24:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3745.00 ft (KB) To 3850.00 ft (KB) (TVD)

Total Depth: 3850.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2883.00 ft (KB)

2878.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 240.31 psig @ 3749.00 ft (KB)

Start Date: 2012.09.25

End Date: 2012.09.25

Start Time: 01:05:05

End Time: 08:23:59

Capacity: 8000.00 psig

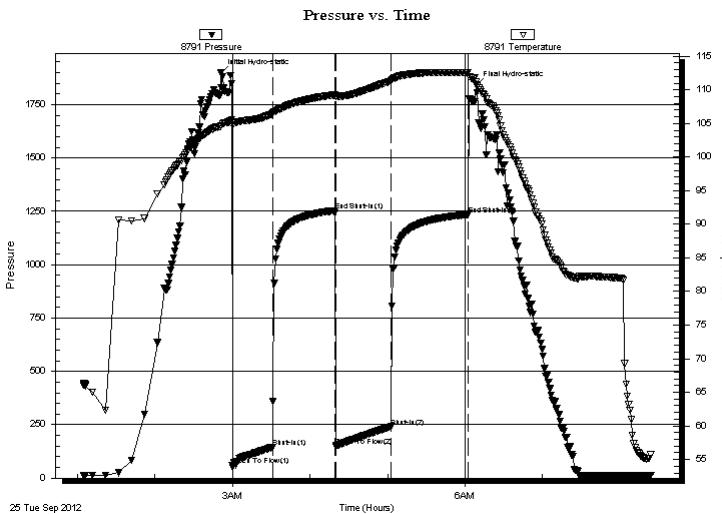
Last Calib.: 2012.09.25

Time On Btm: 2012.09.25 @ 02:51:00

Time Off Btm: 2012.09.25 @ 06:08:30

TEST COMMENT: IF: Fair blow, Built to B.O.B in 23 mins.
 IS: No blow back over 45 mins.
 FF: Weak blow, Built to B.O.B in 45 mins.
 FS: No blow, Back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1897.09	104.60	Initial Hydro-static
9	59.20	104.63	Open To Flow (1)
40	145.01	106.43	Shut-In (1)
88	1252.41	109.24	End Shut-In (1)
89	150.42	108.99	Open To Flow (2)
132	240.31	111.31	Shut-In (2)
192	1235.48	112.55	End Shut-In (2)
198	1840.74	111.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw -20% m80% m	0.61
124.00	mcw -40% m60% w	1.74
62.00	vsocm -5% o95% m	0.87
67.00	ocm -10% o90% m	0.94

Gas Rates

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



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DRILL STEM TEST REPORT

Credo Petroleum Corp.

1801 Broadway #900
Denver CO 80202

ATTN: Bruce Ard

31-1s-31w Rawlins,KS

K&K #1-31

Job Ticket: 48201

DST#: 1

Test Start: 2012.09.25 @ 01:05:00

GENERAL INFORMATION:

Formation: **Oread- LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:00:00

Time Test Ended: 08:24:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: **3745.00 ft (KB) To 3850.00 ft (KB) (TVD)**

Reference Elevations: 2883.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

2878.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8673 Outside

Press @ Run Depth: psig @ 3749.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.25 End Date: 2012.09.25

Last Calib.: 2012.09.25

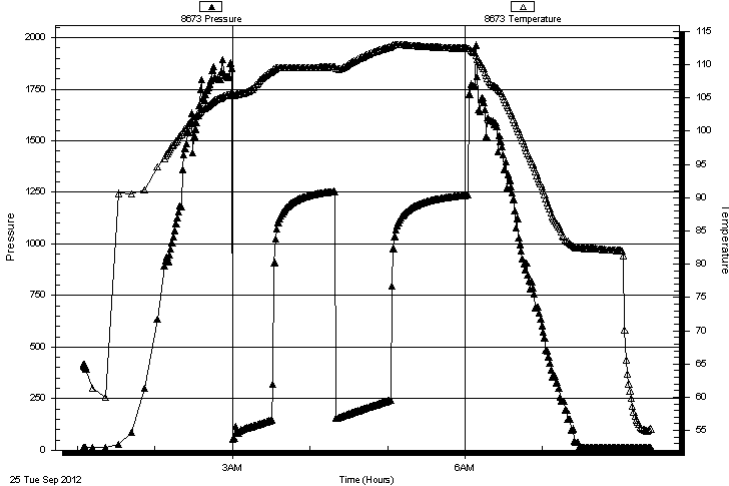
Start Time: 01:05:05 End Time: 08:23:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair blow, Built to B.O.B in 23 mins.
IS: No blow back over 45 mins.
FF: Weak blow, Built to B.O.B in 45 mins.
FS: No blow, Back over 60 mins.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw -20% m80% m	0.61
124.00	mcw -40% m60% w	1.74
62.00	vsocm -5% o95% m	0.87
67.00	ocm -10% o90% m	0.94

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48201

DST#: 1

ATTN: Bruce Ard

Test Start: 2012.09.25 @ 01:05:00

Tool Information

Drill Pipe:	Length: 3602.00 ft	Diameter: 3.80 inches	Volume: 50.53 bbl	Tool Weight: 2400.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 51.14 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3745.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	133.00 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			3722.00	
Hydraulic tool	5.00			3727.00	
Jars	5.00			3732.00	
Safety Joint	3.00			3735.00	
Packer	5.00			3740.00	28.00 Bottom Of Top Packer
Packer	5.00			3745.00	
Stubb	1.00			3746.00	
Perforations	2.00			3748.00	
Change Over Sub	1.00			3749.00	
Recorder	0.00	8791	Inside	3749.00	
Recorder	0.00	8673	Outside	3749.00	
Drill Pipe	94.00			3843.00	
Change Over Sub	1.00			3844.00	
Perforations	3.00			3847.00	
Bullnose	3.00			3850.00	105.00 Bottom Packers & Anchor

Total Tool Length: 133.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48201

DST#: 1

ATTN: Bruce Ard

Test Start: 2012.09.25 @ 01:05:00

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw -20%m80%m	0.610
124.00	mcw -40%m60%w	1.739
62.00	vsocm-5%o95%m	0.870
67.00	ocm-10%o90%m	0.940

Total Length: 377.00 ft

Total Volume: 4.159 bbl

Num Fluid Samples: 0

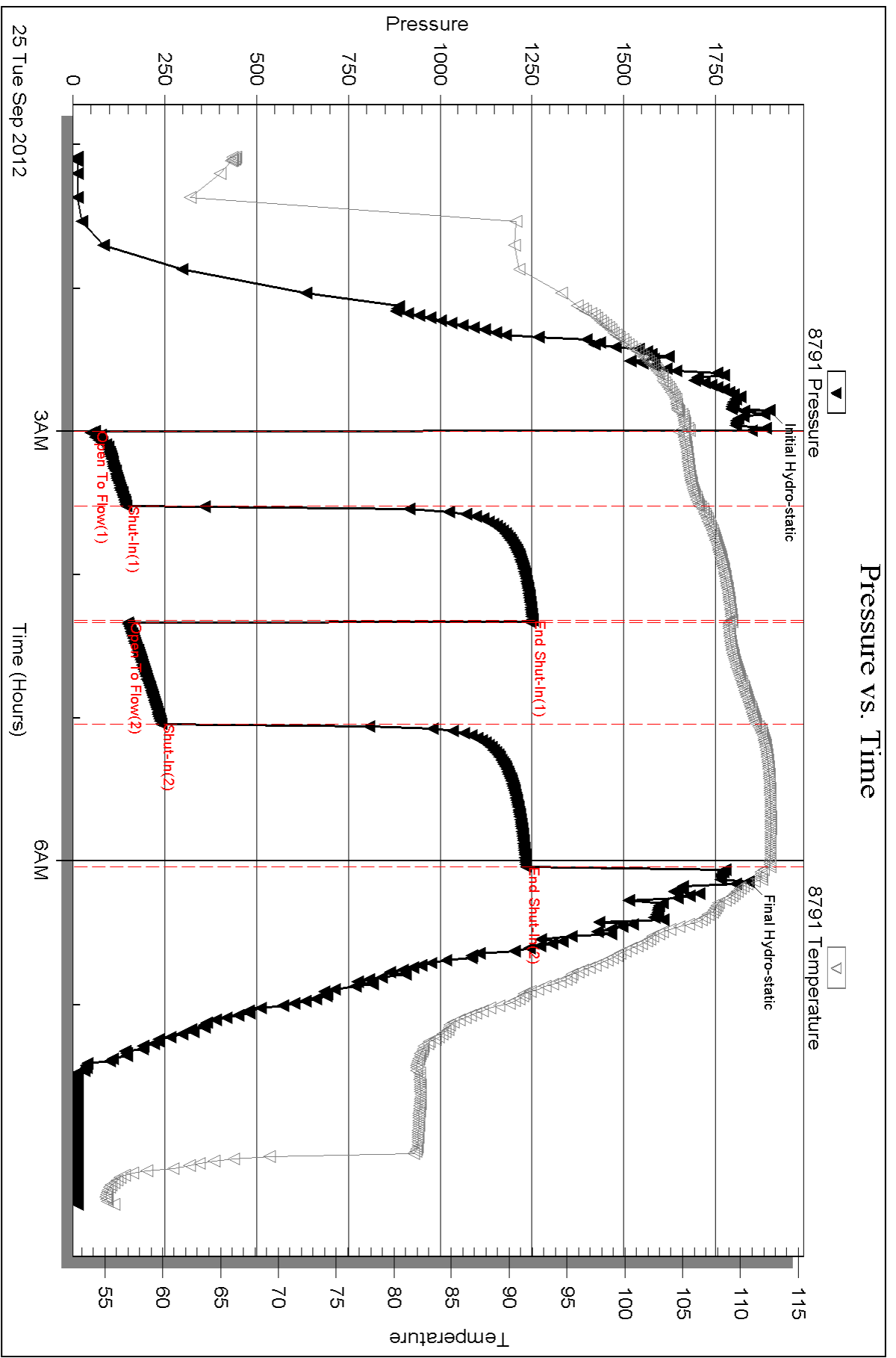
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

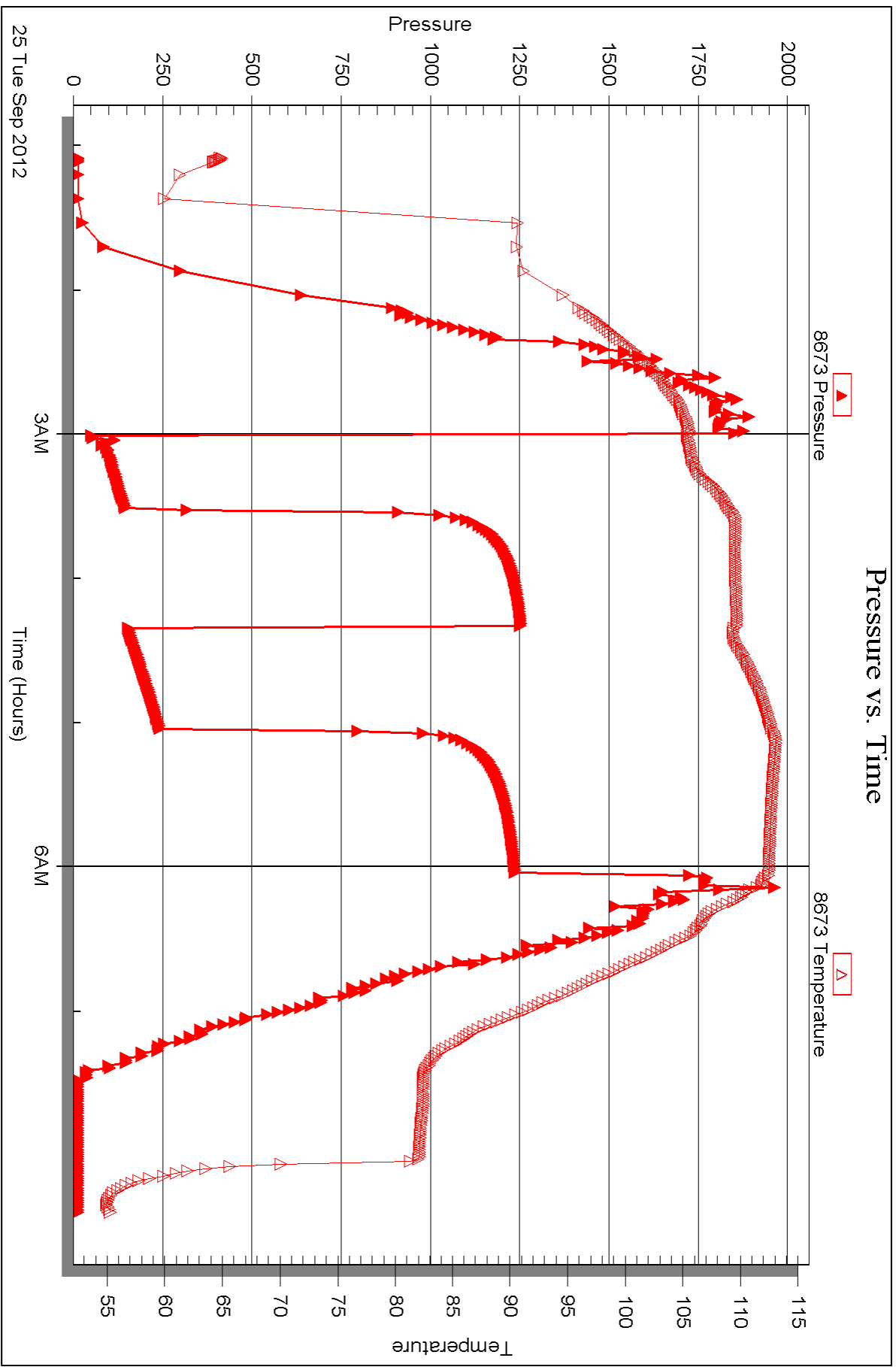


Serial #: 8673

Outside Credo Petroleum Corp.

K&K #1-31

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver CO 80202

ATTN: Bruce Ard

K&K #1-31

31-1s-31w Rawlins,KS

Start Date: 2012.09.25 @ 16:30:00

End Date: 2012.09.25 @ 22:22:00

Job Ticket #: 48202 DST #: 2

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

Printed: 2012.10.02 @ 09:44:49



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corp.

31-1s-31w Rawlins, KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48202

DST#: 2

ATTN: Bruce Ard

Test Start: 2012.09.25 @ 16:30:00

GENERAL INFORMATION:

Formation: **LKC-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:03:30

Time Test Ended: 22:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3838.00 ft (KB) To 3900.00 ft (KB) (TVD)

Reference Elevations: 2883.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

2878.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 57.26 psig @ 3842.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.25

End Date:

2012.09.25

Last Calib.:

2012.09.25

Start Time: 16:30:05

End Time:

22:21:59

Time On Btm:

2012.09.25 @ 18:02:30

Time Off Btm:

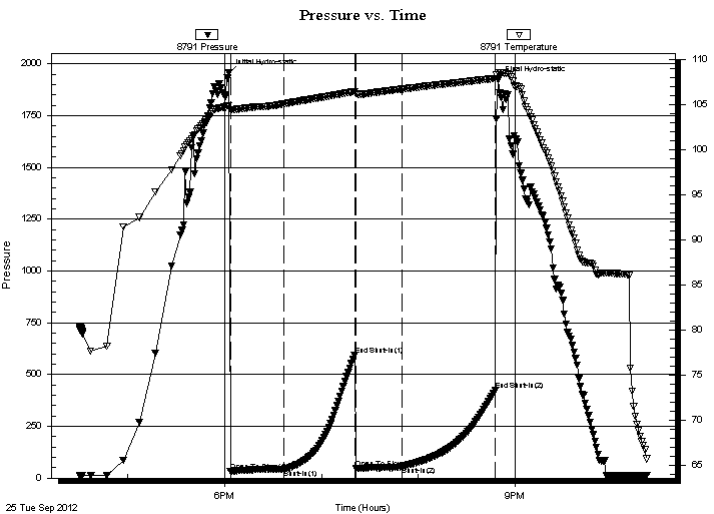
2012.09.25 @ 20:49:30

TEST COMMENT: IF: Weak blow, Died in 20 mins.

IS: No blow back

FF: No blow

FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1955.09	104.96	Initial Hydro-static
1	32.63	104.50	Open To Flow (1)
34	42.06	105.11	Shut-In(1)
78	592.77	106.48	End Shut-In(1)
79	47.52	106.26	Open To Flow (2)
108	57.26	106.76	Shut-In(2)
165	422.66	107.94	End Shut-In(2)
167	1921.74	108.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Hocm-40%o60%m	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48202

DST#: 2

ATTN: Bruce Ard

Test Start: 2012.09.25 @ 16:30:00

Tool Information

Drill Pipe:	Length: 3697.00 ft	Diameter: 3.80 inches	Volume: 51.86 bbl	Tool Weight: 2400.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 52.47 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3838.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 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			3815.00	
Hydraulic tool	5.00			3820.00	
Jars	5.00			3825.00	
Safety Joint	3.00			3828.00	
Packer	5.00			3833.00	28.00 Bottom Of Top Packer
Packer	5.00			3838.00	
Stubb	1.00			3839.00	
Perforations	2.00			3841.00	
Change Over Sub	1.00			3842.00	
Recorder	0.00	8791	Inside	3842.00	
Recorder	0.00	8673	Outside	3842.00	
Drill Pipe	31.00			3873.00	
Change Over Sub	1.00			3874.00	
Perforations	23.00			3897.00	
Bullnose	3.00			3900.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48202

DST#: 2

ATTN: Bruce Ard

Test Start: 2012.09.25 @ 16:30:00

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Hocm-40%o60%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

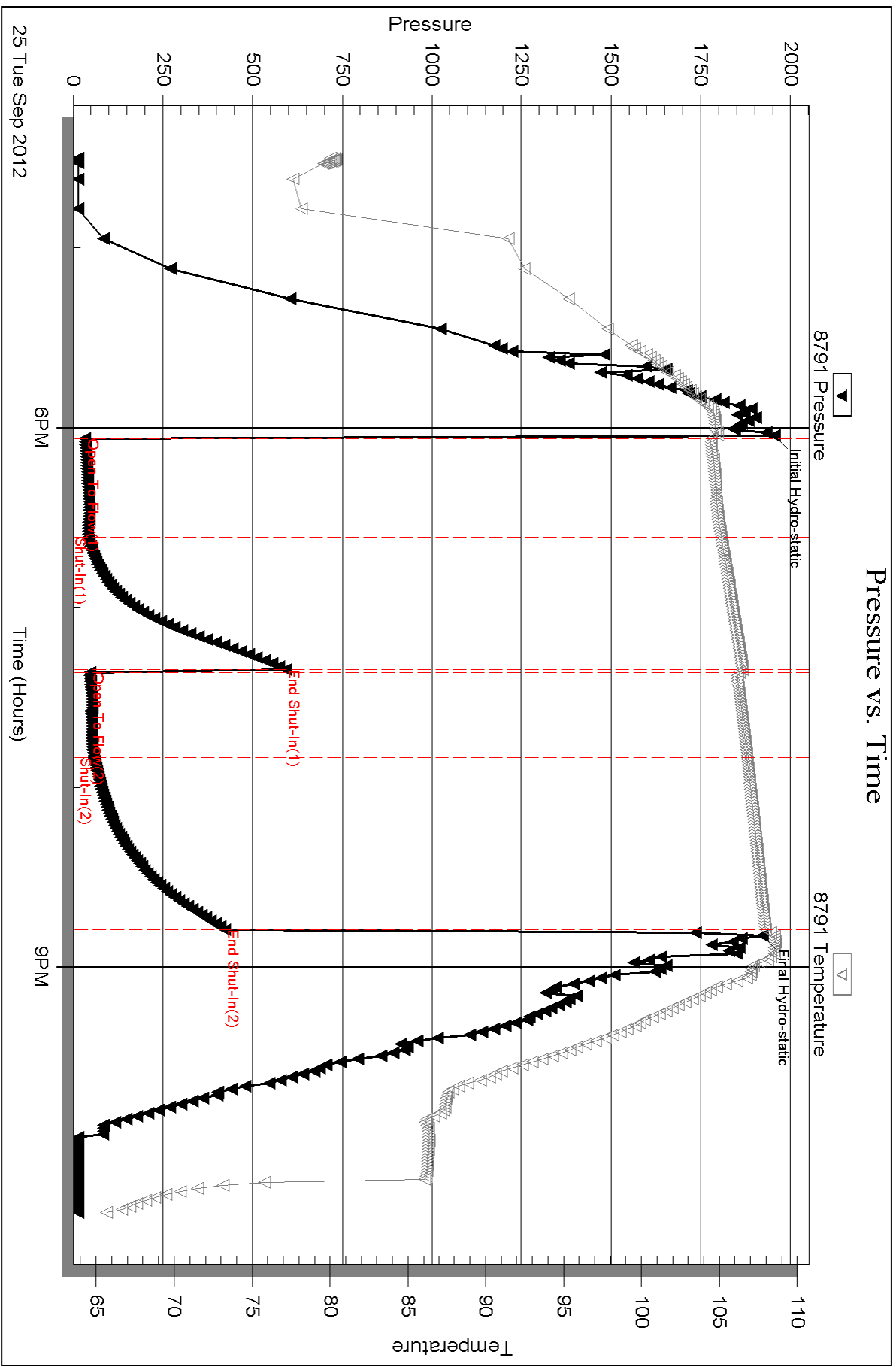
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

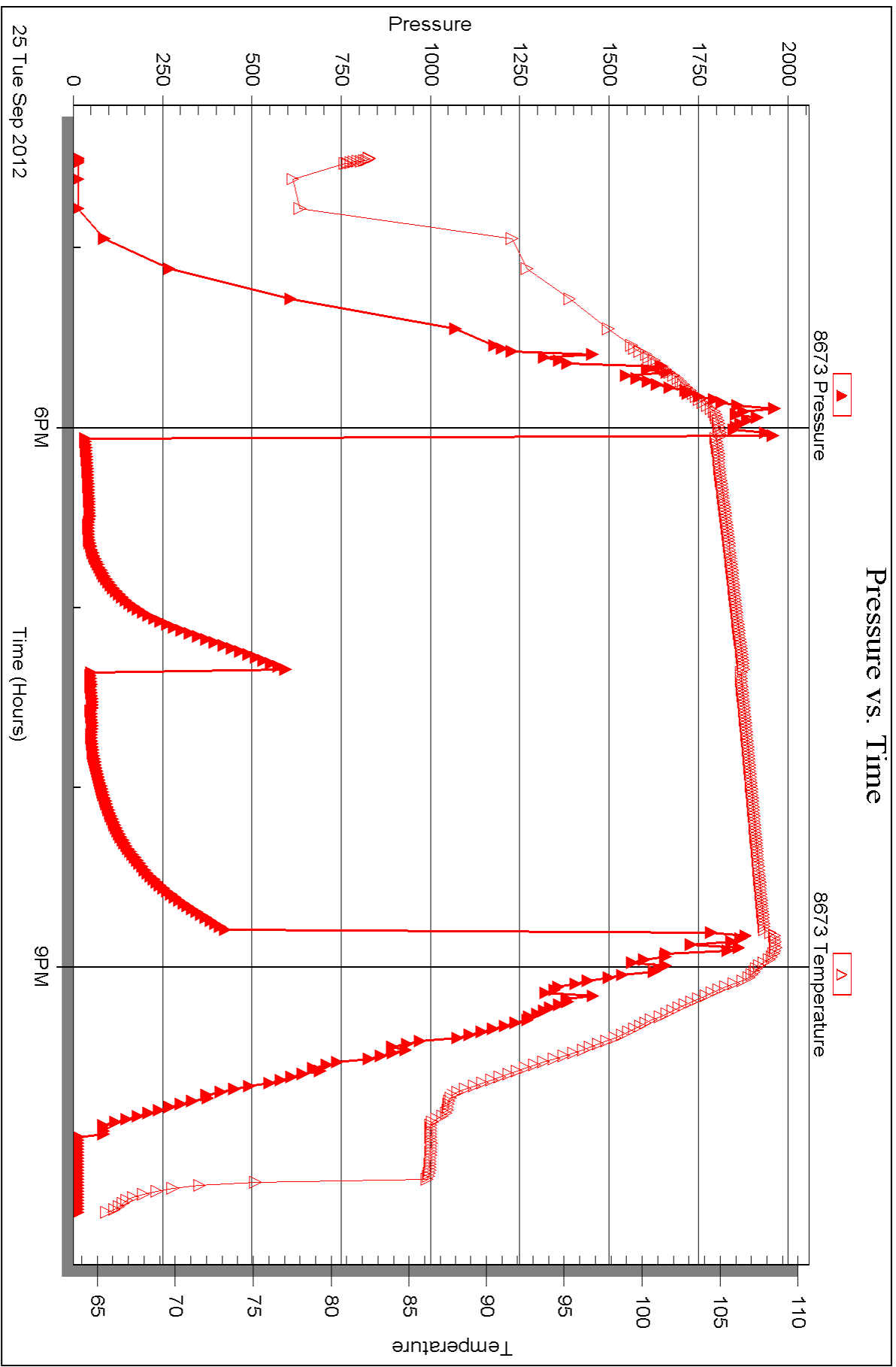


Serial #: 8673

Outside Credo Petroleum Corp.

K&K #1-31

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver CO 80202

ATTN: Bruce Ard

K&K #1-31

31-1s-31w Rawlins,KS

Start Date: 2012.09.26 @ 12:35:00

End Date: 2012.09.26 @ 20:04:00

Job Ticket #: 48203 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.02 @ 09:44:00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp.
 1801 Broadway #900
 Denver CO 80202
 ATTN: Bruce Ard

31-1s-31w Rawlins, KS

K&K #1-31

Job Ticket: 48203

DST#: 3

Test Start: 2012.09.26 @ 12:35:00

GENERAL INFORMATION:

Formation: **LKC C-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:34:30
 Time Test Ended: 20:04:00
 Interval: **3887.00 ft (KB) To 3980.00 ft (KB) (TVD)**
 Total Depth: 3980.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreuzer Jr.-W
 Unit No: 61
 Reference Elevations: 2883.00 ft (KB)
 2878.00 ft (CF)
 KB to GR/CF: 5.00 ft

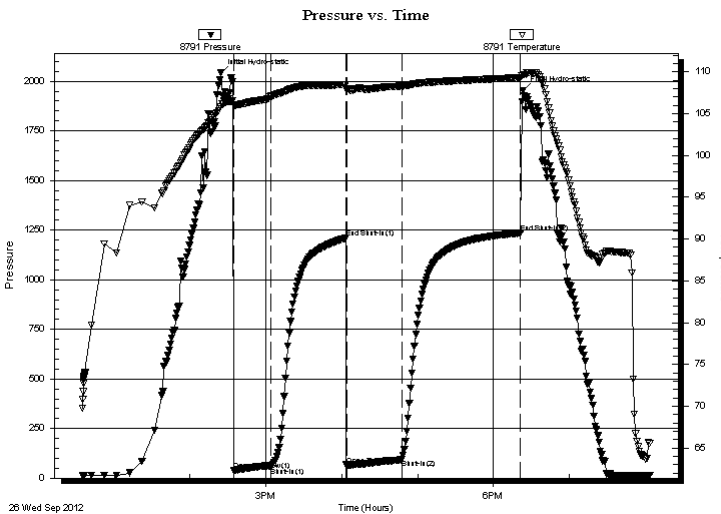
Serial #: 8791

Inside

Press @ Run Depth: 95.79 psig @ 3892.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.26 End Date: 2012.09.26 Last Calib.: 2012.09.26
 Start Time: 12:35:05 End Time: 20:03:59 Time On Btm: 2012.09.26 @ 14:24:30
 Time Off Btm: 2012.09.26 @ 18:23:30

TEST COMMENT: IF: Weak blow 1/2," died to surface over 30 min
 IS: No blow back over 60 min.
 FF: Weak blow at 15 min stopped at 45 min
 FS: No blow back 90 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.28	105.86	Initial Hydro-static
10	37.70	106.04	Open To Flow (1)
40	56.14	107.03	Shut-In(1)
99	1209.54	108.46	End Shut-In(1)
100	66.12	108.03	Open To Flow (2)
143	95.79	108.28	Shut-In(2)
237	1235.44	109.31	End Shut-In(2)
239	1952.59	109.70	Final Hydro-static

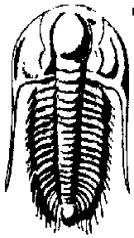
Recovery

Length (ft)	Description	Volume (bbl)
62.00	GHocm-20%g20%m60%o	0.30
20.00	mud w ith oil specs	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48203

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.09.26 @ 12:35:00

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:34:30

Time Test Ended: 20:04:00

Interval: 3887.00 ft (KB) To 3980.00 ft (KB) (TVD)

Total Depth: 3980.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr.-W

Unit No: 61

Reference Elevations: 2883.00 ft (KB)

2878.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8673 Outside

Press @ RunDepth: psig @ 3892.00 ft (KB)

Start Date: 2012.09.26

End Date:

2012.09.26

Start Time: 12:35:05

End Time:

20:03:59

Capacity: 8000.00 psig

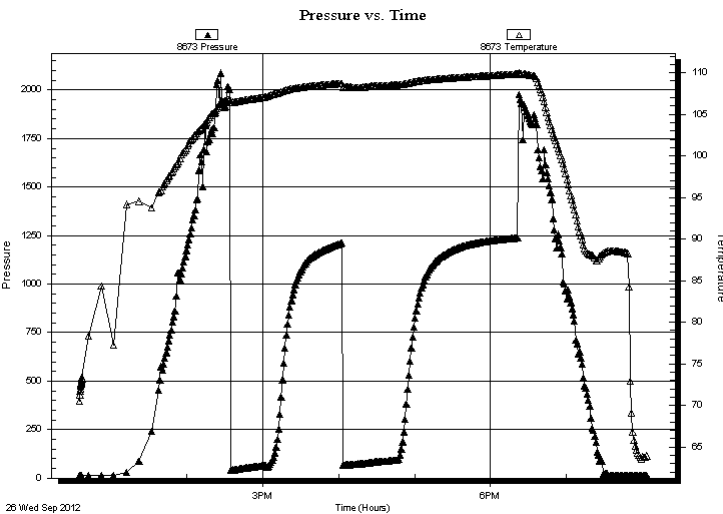
Last Calib.:

2012.09.26

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak blow 1/2," died to surface over 30 min
 IS: No blow back over 60 min.
 FF:Weak blow at 15 min stopped at 45 min
 FS:No blow back 90 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GHocm-20%g20%m60%o	0.30
20.00	mud w ith oil specs	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48203

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.09.26 @ 12:35:00

Tool Information

Drill Pipe:	Length: 3759.00 ft	Diameter: 3.80 inches	Volume: 52.73 bbl	Tool Weight:	2400.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	42000.00 lb
			<u>Total Volume: 53.34 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3887.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	93.00 ft				
Tool Length:	121.00 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			3864.00	
Hydraulic tool	5.00			3869.00	
Jars	5.00			3874.00	
Safety Joint	3.00			3877.00	
Packer	5.00			3882.00	28.00 Bottom Of Top Packer
Packer	5.00			3887.00	
Stubb	1.00			3888.00	
perforations	3.00			3891.00	
Change Over Sub	1.00			3892.00	
Recorder	0.00	8791	Inside	3892.00	
Recorder	0.00	8673	Outside	3892.00	
Drill Pipe	63.00			3955.00	
Change Over Sub	1.00			3956.00	
Perforations	21.00			3977.00	
Bullnose	3.00			3980.00	93.00 Bottom Packers & Anchor

Total Tool Length: 121.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48203

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.09.26 @ 12:35:00

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: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GHocm-20%g20%m60%o	0.305
20.00	mud with oil specs	0.098

Total Length: 82.00 ft Total Volume: 0.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

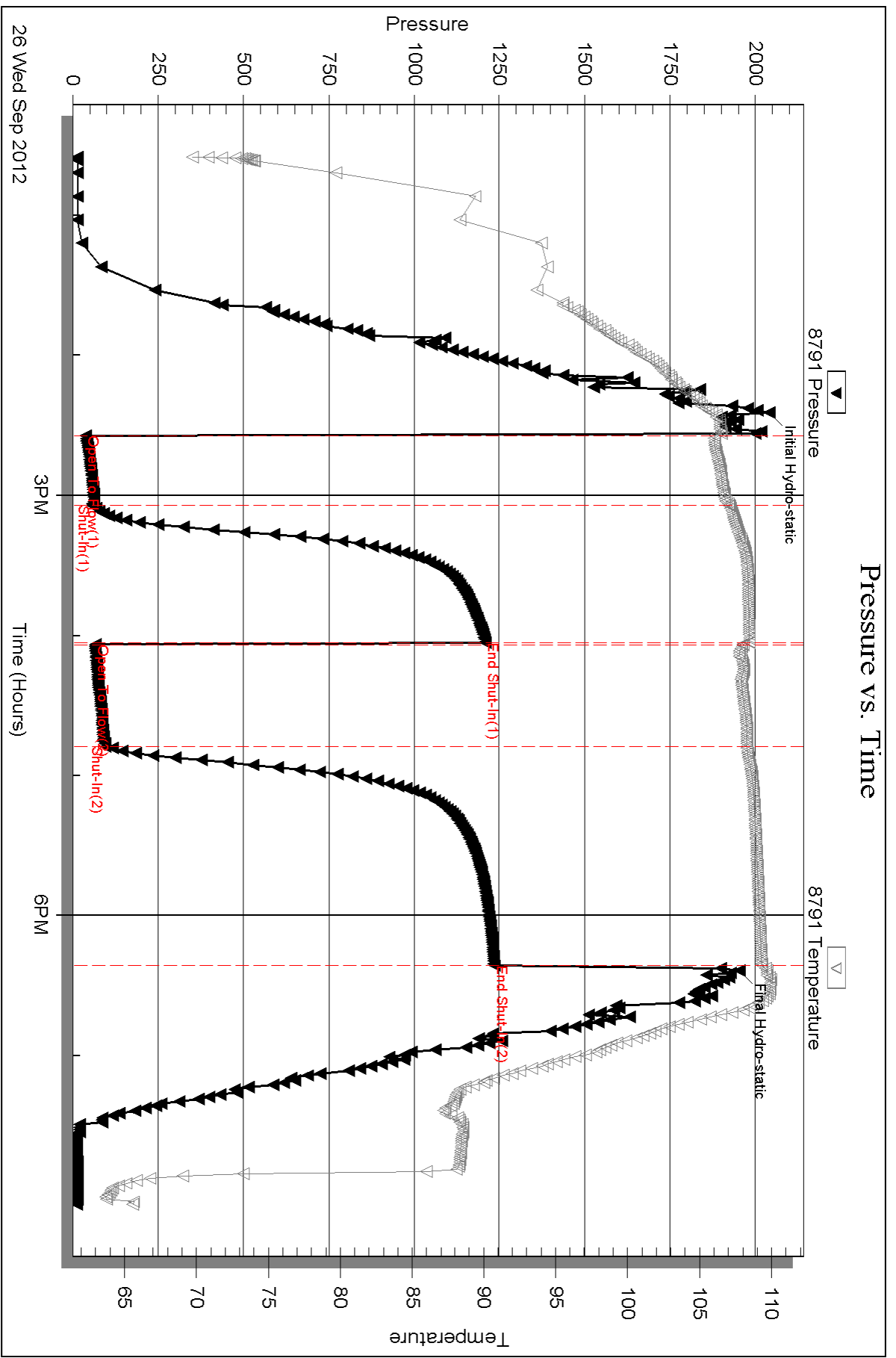
Serial #: 8791

Inside

Crede Petroleum Corp.

K&K #1-31

DST Test Number: 3



26 Wed Sep 2012

Triobite Testing, Inc

Ref. No: 48203

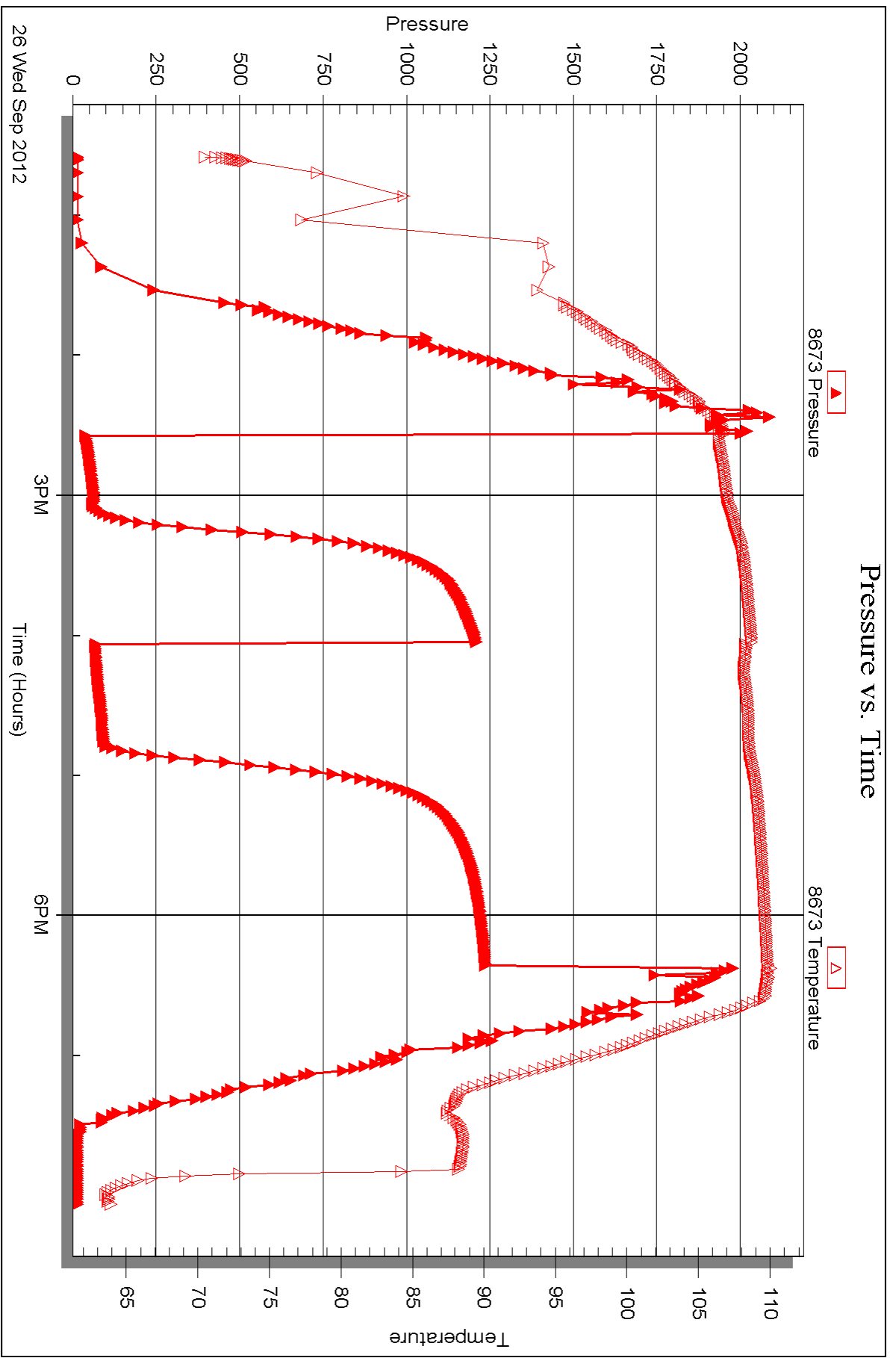
Printed: 2012.10.02 @ 09:44:04

Serial #: 8673

Outside Credo Petroleum Corp.

K&K #1-31

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver CO 80202

ATTN: Bruce Ard

K&K #1-31

31-1s-31w Rawlins,KS

Start Date: 2012.09.27 @ 05:00:00

End Date: 2012.09.27 @ 12:09:30

Job Ticket #: 48204 DST #: 4

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

Printed: 2012.10.02 @ 09:41:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp.

31-1s-31w Rawlins, KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48204

DST#: 4

ATTN: Bruce Ard

Test Start: 2012.09.27 @ 05:00:00

GENERAL INFORMATION:

Formation: **LKC-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:40:30

Time Test Ended: 12:09:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3976.00 ft (KB) To 4030.00 ft (KB) (TVD)

Reference Elevations: 2883.00 ft (KB)

Total Depth: 4030.00 ft (KB) (TVD)

2878.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 172.92 psig @ 3980.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.27

End Date: 2012.09.27

Last Calib.: 2012.09.27

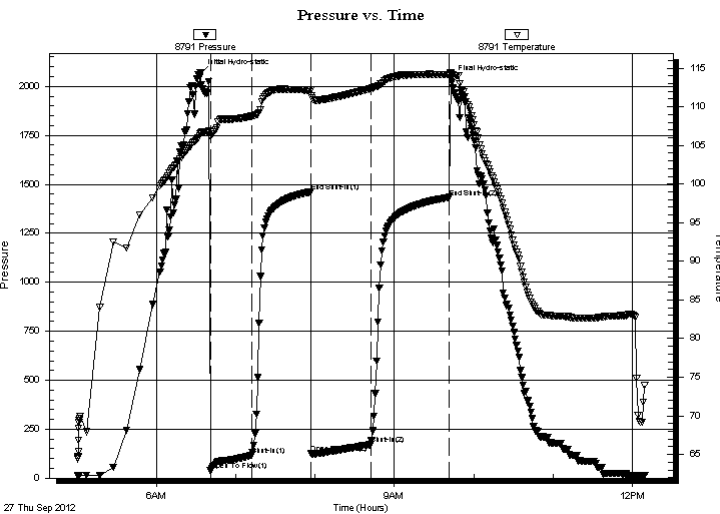
Start Time: 05:00:05

End Time: 12:09:29

Time On Btm: 2012.09.27 @ 06:33:00

Time Off Btm: 2012.09.27 @ 09:43:00

TEST COMMENT: IF: Strong blow to B.O.B in 13 min
IS: Blow back after 6 min build to 1/4". Died in 40 min
FF: Strong blow to B.O.B. in 10 min.
FS: Blow back, Built to 4" over 60 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2067.31	106.50	Initial Hydro-static
8	37.67	106.18	Open To Flow (1)
39	115.72	108.80	Shut-In(1)
84	1461.19	112.16	End Shut-In(1)
84	126.67	111.41	Open To Flow (2)
129	172.92	112.36	Shut-In(2)
189	1433.43	114.13	End Shut-In(2)
190	2035.64	114.25	Final Hydro-static

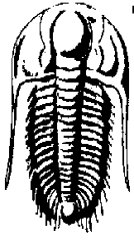
Recovery

Length (ft)	Description	Volume (bbl)
124.00	GO 40% gas 60% oil	0.61
62.00	GOCM 10% g 10% o 10% w 70% m	0.87
124.00	GO 40% gas 60% oil	1.74
67.00	GO 10% gas 90% oil	0.94
0.00	475 ft of gas	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp.

31-1s-31w Rawlins, KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48204

DST#: 4

ATTN: Bruce Ard

Test Start: 2012.09.27 @ 05:00:00

GENERAL INFORMATION:

Formation: **LKC-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:40:30

Time Test Ended: 12:09:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3976.00 ft (KB) To 4030.00 ft (KB) (TVD)

Reference Elevations: 2883.00 ft (KB)

Total Depth: 4030.00 ft (KB) (TVD)

2878.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8673 **Outside**

Press @ Run Depth: psig @ 3980.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.27

End Date: 2012.09.27

Last Calib.: 2012.09.27

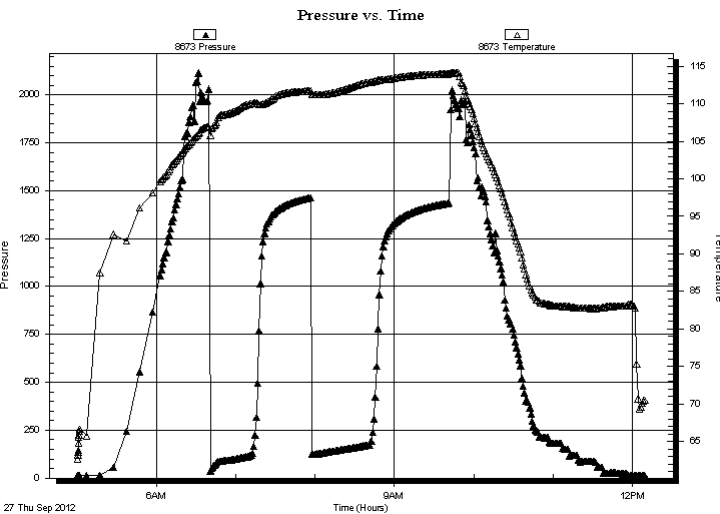
Start Time: 05:00:05

End Time: 12:09:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow to B.O.B in 13 min
IS: Blow back after 6 min build to 1/4". Died in 40 min
FF: Strong blow to B.O.B. in 10 min.
FS: Blow back, Built to 4" over 60 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GO 40% gas 60% oil	0.61
62.00	GOCM 10% g 10% o 10% w 70% m	0.87
124.00	GO 40% gas 60% oil	1.74
67.00	GO 10% gas 90% oil	0.94
0.00	475 ft of gas	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

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48204

DST#: 4

ATTN: Bruce Ard

Test Start: 2012.09.27 @ 05:00:00

Tool Information

Drill Pipe:	Length: 3854.00 ft	Diameter: 3.80 inches	Volume: 54.06 bbl	Tool Weight:	2400.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 54.67 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3976.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	82.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Hydraulic tool	5.00			3953.00	
Jars	5.00			3958.00	
Safety Joint	3.00			3961.00	
Shut In Tool	5.00			3966.00	
Packer	5.00			3971.00	28.00 Bottom Of Top Packer
Packer	5.00			3976.00	
Stubb	1.00			3977.00	
Perforations	2.00			3979.00	
Change Over Sub	1.00			3980.00	
Recorder	0.00	8791	Inside	3980.00	
Recorder	0.00	8673	Outside	3980.00	
Drill Pipe	31.00			4011.00	
Change Over Sub	1.00			4012.00	
Perforations	15.00			4027.00	
Bullnose	3.00			4030.00	54.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48204

DST#: 4

ATTN: Bruce Ard

Test Start: 2012.09.27 @ 05:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	GO 40%gas 60% oil	0.610
62.00	GOCM 10% g 10% o 10% w 70% m	0.870
124.00	GO 40% gas 60% oil	1.739
67.00	GO 10% gas 90% oil	0.940
0.00	475 ft of gas	0.000

Total Length: 377.00 ft

Total Volume: 4.159 bbl

Num Fluid Samples: 0

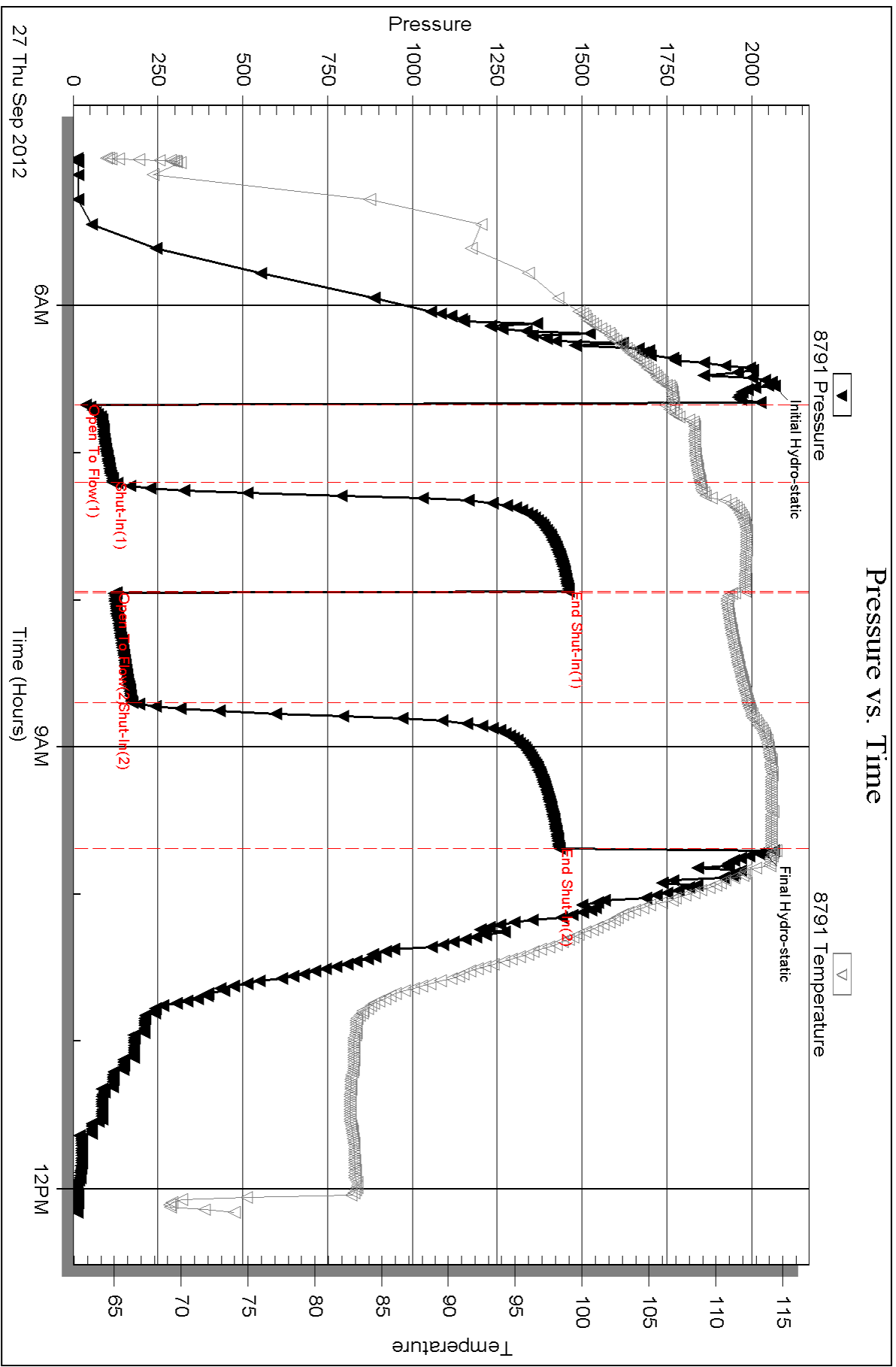
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 34@80'=32

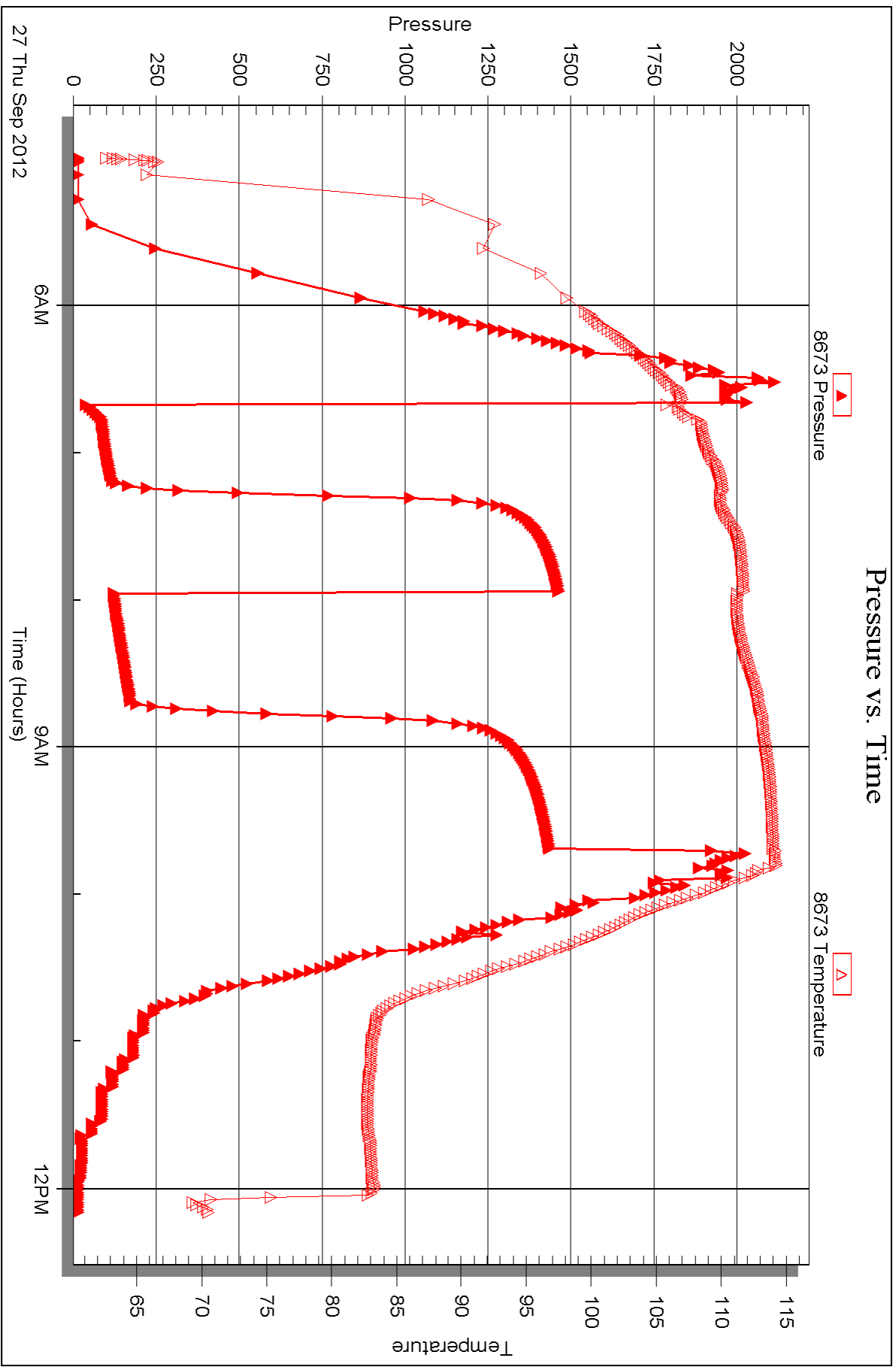


Serial #: 8673

Outside Credo Petroleum Corp.

K&K #1-31

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corp.**

1801 Broadway #900
Denver CO 80202

ATTN: Bruce Ard

K&K #1-31

31-1s-31w Rawlins,KS

Start Date: 2012.09.27 @ 19:00:00

End Date: 2012.09.28 @ 00:55:30

Job Ticket #: 48205 DST #: 5

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

Printed: 2012.10.02 @ 09:40:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corp.
 1801 Broadway #900
 Denver CO 80202
 ATTN: Bruce Ard

31-1s-31w Rawlins, KS
K&K #1-31
 Job Ticket: 48205 **DST#: 5**
 Test Start: 2012.09.27 @ 19:00:00

GENERAL INFORMATION:

Formation: **LKC F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:30:30
 Time Test Ended: 00:55:30
 Interval: **4023.00 ft (KB) To 4060.00 ft (KB) (TVD)**
 Total Depth: 4060.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreuzer Jr.
 Unit No: 61
 Reference Elevations: 2883.00 ft (KB)
 2878.00 ft (CF)
 KB to GR/CF: 5.00 ft

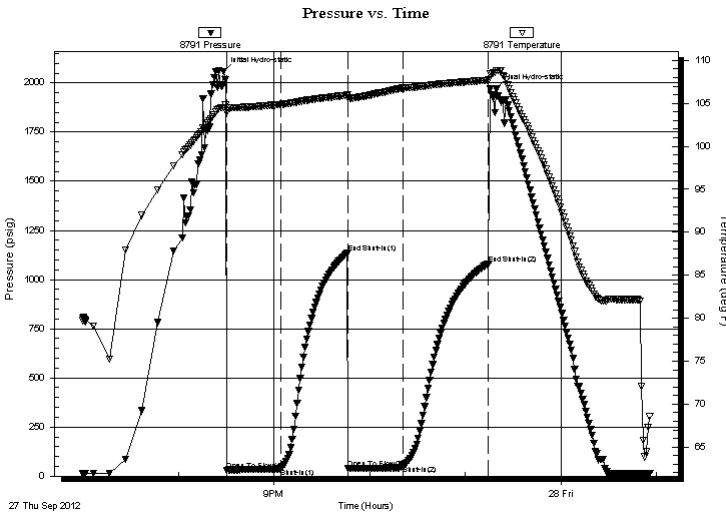
Serial #: 8791

Inside

Press @ Run Depth: 54.07 psig @ 4026.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.27 End Date: 2012.09.28 Last Calib.: 2012.09.28
 Start Time: 19:00:05 End Time: 00:55:29 Time On Btm: 2012.09.27 @ 20:28:30
 Time Off Btm: 2012.09.27 @ 23:19:30

TEST COMMENT: IF: Weak blow , Died in 5 mins.
 IS: No blow back over 45 mins.
 FF: No blow , Over 30 mins
 FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.66	104.54	Initial Hydro-static
2	30.78	103.93	Open To Flow (1)
36	40.36	104.86	Shut-In(1)
78	1134.01	105.94	End Shut-In(1)
78	38.53	105.61	Open To Flow (2)
113	54.07	106.76	Shut-In(2)
166	1080.75	107.71	End Shut-In(2)
171	1969.04	108.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corp.

31-1s-31w Rawlins, KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

ATTN: Bruce Ard

Job Ticket: 48205

DST#: 5

Test Start: 2012.09.27 @ 19:00:00

GENERAL INFORMATION:

Formation: **LKC F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:30:30
Time Test Ended: 00:55:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreutzer Jr.
Unit No: 61

Interval: **4023.00 ft (KB) To 4060.00 ft (KB) (TVD)**
Total Depth: 4060.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2883.00 ft (KB)
2878.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8673

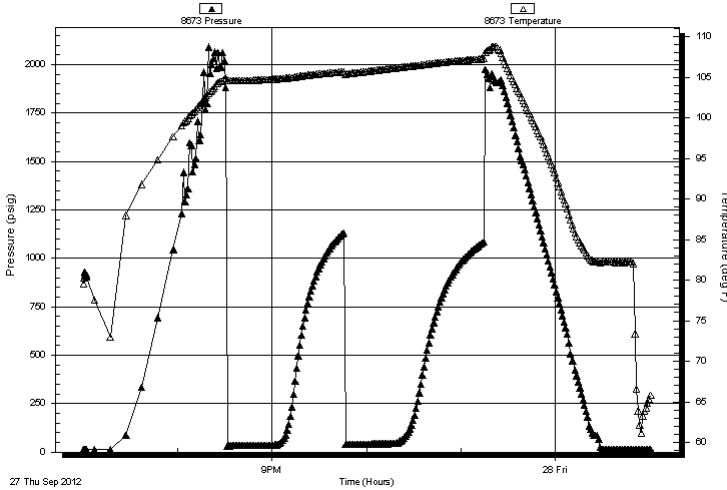
Outside

Press @ Run Depth: psig @ 4026.00 ft (KB)
Start Date: 2012.09.27 End Date: 2012.09.28
Start Time: 19:00:05 End Time: 01:00:29

Capacity: 8000.00 psig
Last Calib.: 2012.09.28
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak blow, Died in 5 mins.
IS: No blow back over 45 mins.
FF: No blow, Over 30 mins
FS: No blow back over 60 mins.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	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

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48205

DST#: 5

ATTN: Bruce Ard

Test Start: 2012.09.27 @ 19:00:00

Tool Information

Drill Pipe:	Length: 3886.00 ft	Diameter: 3.80 inches	Volume: 54.51 bbl	Tool Weight: 2400.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 55.12 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4023.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	65.00 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			4000.00	
Hydraulic tool	5.00			4005.00	
Jars	5.00			4010.00	
Safety Joint	3.00			4013.00	
Packer	5.00			4018.00	28.00 Bottom Of Top Packer
Packer	5.00			4023.00	
Stubb	1.00			4024.00	
Perforations	2.00			4026.00	
Recorder	0.00	8791	Inside	4026.00	
Recorder	0.00	8673	Outside	4026.00	
Perforations	31.00			4057.00	
Bullnose	3.00			4060.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corp.

31-1s-31w Rawlins,KS

1801 Broadway #900
Denver CO 80202

K&K #1-31

Job Ticket: 48205

DST#: 5

ATTN: Bruce Ard

Test Start: 2012.09.27 @ 19:00:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	mud-100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

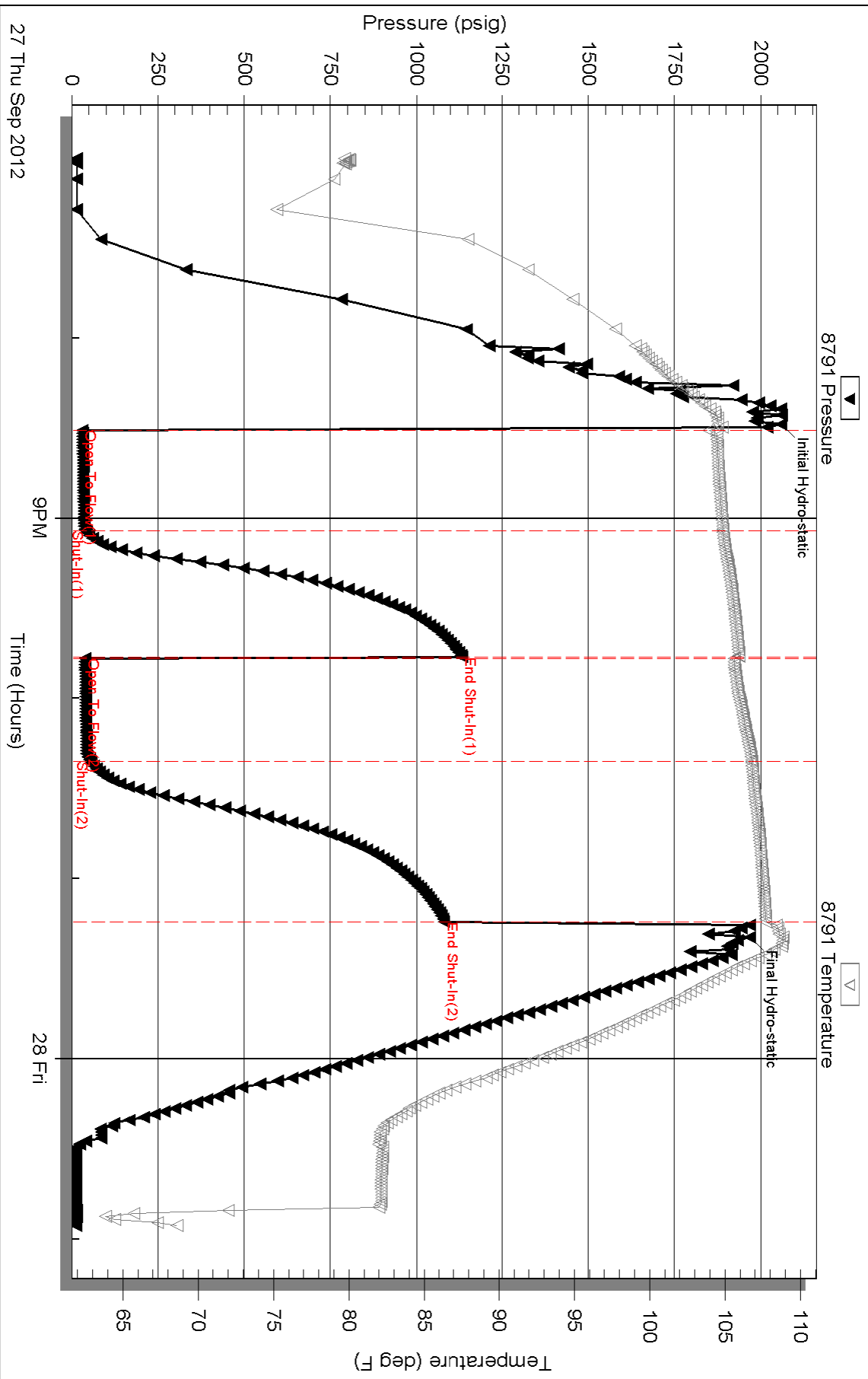
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

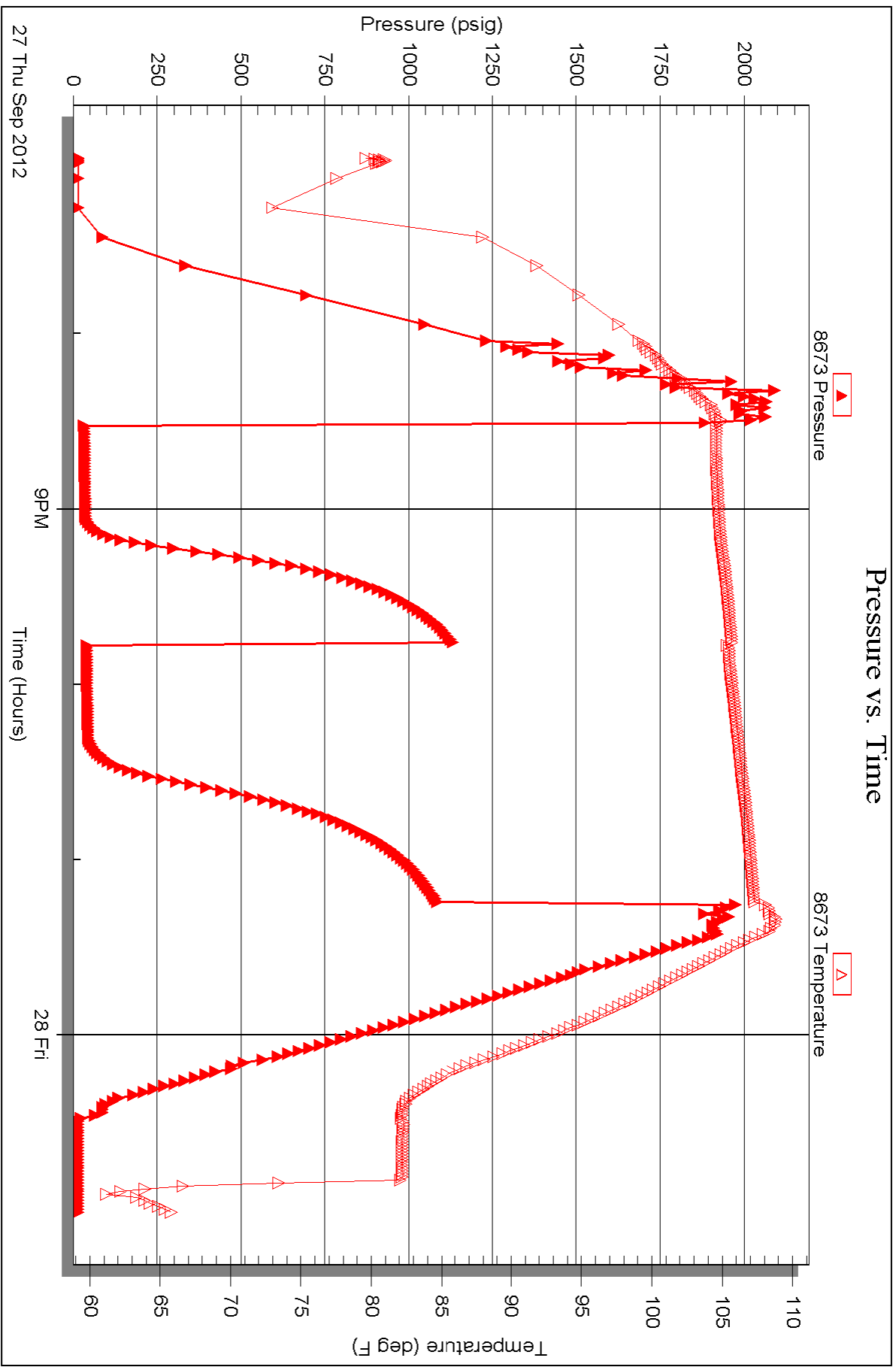


Serial #: 8673

Outside Credo Petroleum Corp.

K&K #1-31

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48201

Well Name & No. K&K 1-31 Test No. 1 Date 09-25-2012
 Company Credo Petroleum Corp. Elevation 2883 KB 2878 GL
 Address 1801 Broadway # 900 Denver Co. 80202
 Co. Rep / Geo. Bruce Ard Rig WW#4
 Location: Sec. 31 Twp. 01S Rge. 31W Co. Brown State KS

Interval Tested 3745 3850 Zone Tested Oread - LKC-A
 Anchor Length 105 Drill Pipe Run 3602 Mud Wt. 8.8
 Top Packer Depth 3740 Drill Collars Run 124 Vis 63
 Bottom Packer Depth 3745 Wt. Pipe Run -0- WL 5.4
 Total Depth 3850 Chlorides 400 ppm System LCM 6#

Blow Description IF: Fair blow, Built to B.O.B in 23 mins.
ISI: No blow back over 45 mins.
FF: Weak blow, Built to B.O.B in 45 mins.
FSI: No blow back over 60 mins.

Rec	Feet of	%gas	%oil	%water	%mud
67	OCM	10			90
62	VS OCM	5			95
124	MCW			60	40
124	MCW			80	20
					100

Rec Total 377 BHT 112 Gravity _____ API RW .24 @ 52.3 °F Chlorides 42,000 ppm

(A) Initial Hydrostatic <u>1879</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>12:30</u>
(B) First Initial Flow <u>59</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1:05</u>
(C) First Final Flow <u>145</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>3:00</u>
(D) Initial Shut-In <u>1252</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>6:05</u>
(E) Second Initial Flow <u>150</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>8:24</u>
(F) Second Final Flow <u>240</u>	<input checked="" type="checkbox"/> Mileage 77.50 <u>25x2=50x1.55</u>	Comments _____
(G) Final Shut-In <u>1235</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1841</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1552.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1552.50</u>	

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48202

Well Name & No. K&K 1-31 Test No. 2 Date 09-25-2012
 Company Credo Petroleum Corp. Elevation 2883 KB 2878 GL
 Address 1801 Broadway # 900 Denver Co. 80202
 Co. Rep / Geo. Bruce Ard Rig WW#4
 Location: Sec. 31 Twp. 15 Rge. 3/W Co. Rawlins State Ks

Interval Tested 3838 3900 Zone Tested LKC-B
 Anchor Length 62 Drill Pipe Run 3697 Mud Wt. 9.1
 Top Packer Depth 3833 Drill Collars Run 124 Vis 63
 Bottom Packer Depth 3838 Wt. Pipe Run 0 WL 6.2
 Total Depth 3900 Chlorides 600 ppm System LCM 4#

Blow Description IF: Weak blow, Died in 20mins.
ISI: NO blow back over 45 mins.
FF: No blow over 30mins
FSI: No blow back over 60mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>HOC-A</u>		<u>40</u>		<u>60</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 30 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1955</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>16:15</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>16:30</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>18:03</u>
(D) Initial Shut-In <u>593</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>20:45</u>
(E) Second Initial Flow <u>48</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:22</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage <u>25x2 = 50 x 1.55 = 77.50</u>	Comments _____
(G) Final Shut-In <u>422</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic _____	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1552.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1552.50</u>	

Approved By _____ Our Representative Chuck V...

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. 48203

Well Name & No. K+K 1-31 Test No. 3 Date 09-26-2012
 Company Crado Petroleum Corp. Elevation 2885 KB 2878 GL
 Address 1801 Broadway # 900 Denver Co. 80202
 Co. Rep / Geo. Bruce Ard Rig WW #4
 Location: Sec. 31 Twp. 15 Rge. 31W Co. Kawlin State KS

Interval Tested 3 887 3980 Zone Tested LKCS-D
 Anchor Length 93 ft Drill Pipe Run 3579 Mud Wt. 9.1
 Top Packer Depth 3882 Drill Collars Run 124' Vis 54
 Bottom Packer Depth 3887 Wt. Pipe Run NA WL 7.2
 Total Depth 3980 Chlorides 900 ppm System LCM 3#

Blow Description IF: Weak blow 1/2 died to surface over 30 min
FSI: No blow back over 60 mins.
FF: Weak blow at 15 mins. stopped at 45 min.
FSI: No blow back 90 mins.

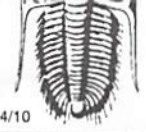
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Feet of mud with oil specs</u>				
<u>62</u>	<u>Feet of GHDCM</u>	<u>20</u>	<u>60</u>		<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 82 BHT 108 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2040</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>12:10</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:35</u>
(C) First Final Flow <u>56</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:35</u>
(D) Initial Shut-In <u>1210</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>18:20</u>
(E) Second Initial Flow <u>66</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>20:04</u>
(F) Second Final Flow <u>96</u>	<input checked="" type="checkbox"/> Mileage <u>77.50</u>	Comments _____
(G) Final Shut-In <u>1235</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1953</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>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1552.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1552.50</u>	

Approved By _____ Our Representative Chris Rigg

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.



TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48204

Well Name & No. K&K 1-31 Test No. 4 Date 9-27-2012
 Company Credo Petroleum Corp. Elevation 2883 KB 2878 GL
 Address 1801 Broadway # 900 Denver Co. 80202
 Co. Rep / Geo. Bruce Ard Rig ww#4
 Location: Sec. 31 Twp. 15 Rge. 31^W Co. Rawlins State Ks

Interval Tested 3976 4030 Zone Tested LKC-E
 Anchor Length 54 Drill Pipe Run 3854 Mud Wt. 9.1
 Top Packer Depth 3971 Drill Collars Run 124' Vis 54
 Bottom Packer Depth 3976 Wt. Pipe Run -0- WL 7.2
 Total Depth 4030 Chlorides 900 ppm System LCM 3H

Blow Description IF: Strong blow, Built to B.O.B in 13 mins.
IS: Blow back after 6 mins, Built to 4 in. ^{Died} over 40 mins.
FF: Strong blow, Built to B.O.B in 10 mins.
FSI Blow back, Built to 4 in. over 60 mins.

Rec	Feet of	%gas	%oil	%water	%mud
0	475' ft of Gas - .34@80° = 32%				
67	GO	10	90		
124	GO	40	60		
62	GO LCM	10	10	10	70
124	GO	40	60		

Rec Total _____ BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2,067</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>4:00</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>5:00</u>
(C) First Final Flow <u>116</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>6:40</u>
(D) Initial Shut-In <u>1,461</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>8:45</u>
(E) Second Initial Flow <u>127</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:04</u>
(F) Second Final Flow <u>173</u>	<input checked="" type="checkbox"/> Mileage 77.50	Comments _____
(G) Final Shut-In <u>2,036 1,433</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2,036</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1652.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1652.50</u>	

Approved By _____ Our Representative Cheryl Kuyper

Tribolite 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. 48205

Well Name & No. K&K 1-31 Test No. 5 Date 9-27
 Company Credo Petro. Corp Elevation 2883 KB 2878 GL
 Address 1801 Broadway #900 Denver Co. 80202
 Co. Rep / Geo. Bruce Ann Rig WW#4
 Location: Sec. 31 Twp. 15 Rge. 3/W Co. Rawling State KS

Interval Tested 4023 4060 Zone Tested K&K-F
 Anchor Length 37 Drill Pipe Run 3886 Mud Wt. 9.3
 Top Packer Depth 4018 Drill Collars Run 124 Vis 52
 Bottom Packer Depth 4023 Wt. Pipe Run - 0 - WL 7.2
 Total Depth 4060 Chlorides 800 ppm System LCM 3H

Blow Description IF: Weak blow Dried in 5 mins.

ISI: NO blow back

FFI: No blow

FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD</u>			<u>100</u>	

Rec Total _____ BHT 108 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2,059
- (B) First Initial Flow 31
- (C) First Final Flow 40
- (D) Initial Shut-In 1,134
- (E) Second Initial Flow 39
- (F) Second Final Flow 54
- (G) Final Shut-In 1,081
- (H) Final Hydrostatic 1,969

- Test 1250
- Jars 250
- Safety Joint 75
- Circ Sub _____
- Hourly Standby _____
- Mileage 25 x 2 = 50 x 1.55 = 77.50 x 2 = 155
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby 1d 4.5hrs
- Accessibility _____
- Sub Total 1730

- T-On Location 18:50
- T-Started 19:00
- T-Open 20:30
- T-Pulled 23:20
- T-Out 00:55

Comments FRISK last job on 9-27 at 12:55 AM Load tools on 9-29 at 5:00 AM

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60

- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total 800
- Total 2530
- MP/DST Disc't _____

Approved By _____

Our Representative Chuck Hays

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