



DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

8080 E. Central Ste. 300
Wichita, KS 67206-2366

ATTN: Dave Williams

Halbower "A" 2-3

3-34s-8w Harper,KS

Start Date: 2013.04.01 @ 10:50:17

End Date: 2013.04.01 @ 21:28:32

Job Ticket #: 50870 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.09 @ 09:17:59



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.
 8080 E. Central Ste. 300
 Wichita, KS 67206-2366
 ATTN: Dave Williams

3-34s-8w Harper, KS
Halbower "A" 2-3
 Job Ticket: 50870 **DST#: 1**
 Test Start: 2013.04.01 @ 10:50:17

GENERAL INFORMATION:

Formation: **Miss. (Salem)**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:17:32
 Time Test Ended: 21:28:32
 Interval: **4616.00 ft (KB) To 4642.00 ft (KB) (TVD)**
 Total Depth: 4642.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 1377.00 ft (KB)
 1368.00 ft (CF)
 KB to GR/CF: 9.00 ft

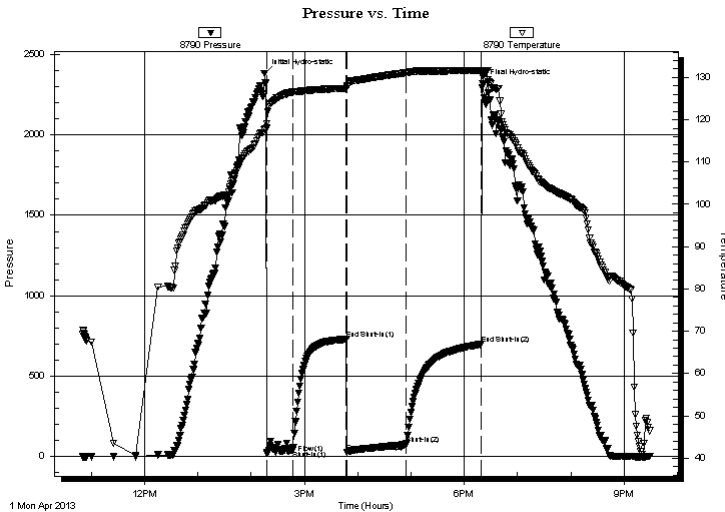
Serial #: 8790

Inside

Press @ Run Depth: 74.58 psig @ 4617.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.01 End Date: 2013.04.01 Last Calib.: 2013.04.01
 Start Time: 10:50:22 End Time: 21:28:32 Time On Btm: 2013.04.01 @ 14:14:47
 Time Off Btm: 2013.04.01 @ 18:20:32

TEST COMMENT: IF: Strong blow . BOB 1 1/2 min. No GTS.
 IS: No blow
 FF: Strong blow . BOB immed. NO GTS.
 FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2379.73	117.62	Initial Hydro-static
3	20.80	119.12	Open To Flow (1)
32	38.69	126.54	Shut-In(1)
93	729.98	127.44	End Shut-In(1)
94	27.41	127.69	Open To Flow (2)
160	74.58	131.12	Shut-In(2)
244	697.82	131.67	End Shut-In(2)
246	2316.47	130.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SW 100%w tr	0.05
125.00	WCM 20%w tr, 80%mud	0.61
0.00	1400' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp.

3-34s-8w Harper, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2366

Halbower "A" 2-3

Job Ticket: 50870

DST#: 1

ATTN: Dave Williams

Test Start: 2013.04.01 @ 10:50:17

Tool Information

Drill Pipe:	Length: 4429.00 ft	Diameter: 3.80 inches	Volume: 62.13 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: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 87000.00 lb
			<u>Total Volume: 63.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4616.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.50 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4595.00	
Hydraulic tool	5.00			4600.00	
Jars	5.00			4605.00	
Safety Joint	2.00			4607.00	
Packer	5.00			4612.00	26.00 Bottom Of Top Packer
Packer	4.00			4616.00	
Stubb	1.00			4617.00	
Recorder	0.00	8790	Inside	4617.00	
Recorder	0.00	8792	Outside	4617.00	
Perforations	22.00			4639.00	
Bullnose	3.00			4642.00	26.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp.
8080 E. Central Ste. 300
Wichita, KS 67206-2366
ATTN: Dave Williams

3-34s-8w Harper, KS
Halbower "A" 2-3
Job Ticket: 50870 **DST#: 1**
Test Start: 2013.04.01 @ 10:50:17

Mud and Cushion Information

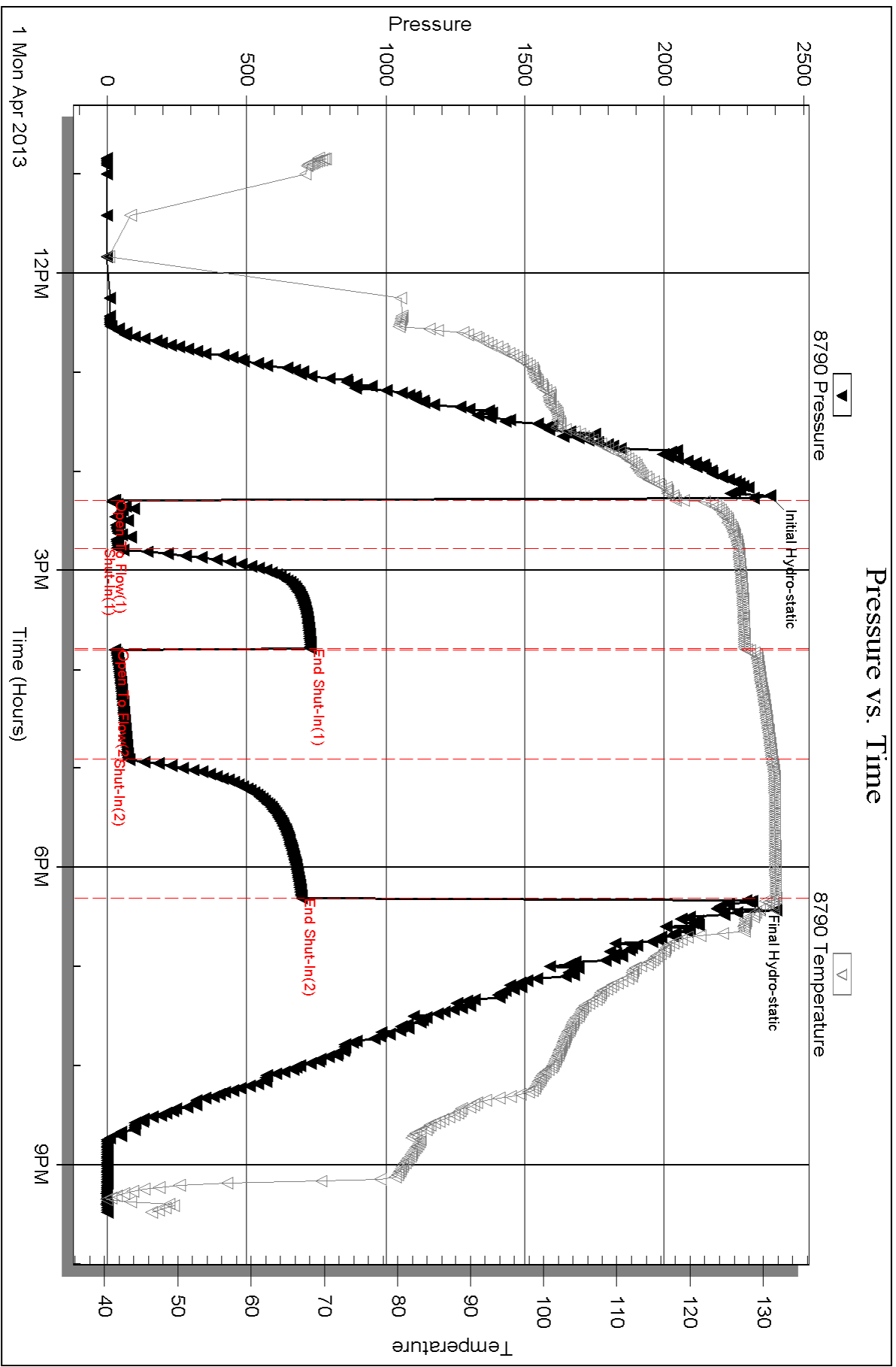
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SW 100%w tr	0.049
125.00	WCM 20%w tr, 80%mud	0.615
0.00	1400' GIP	0.000

Total Length: 135.00 ft Total Volume: 0.664 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

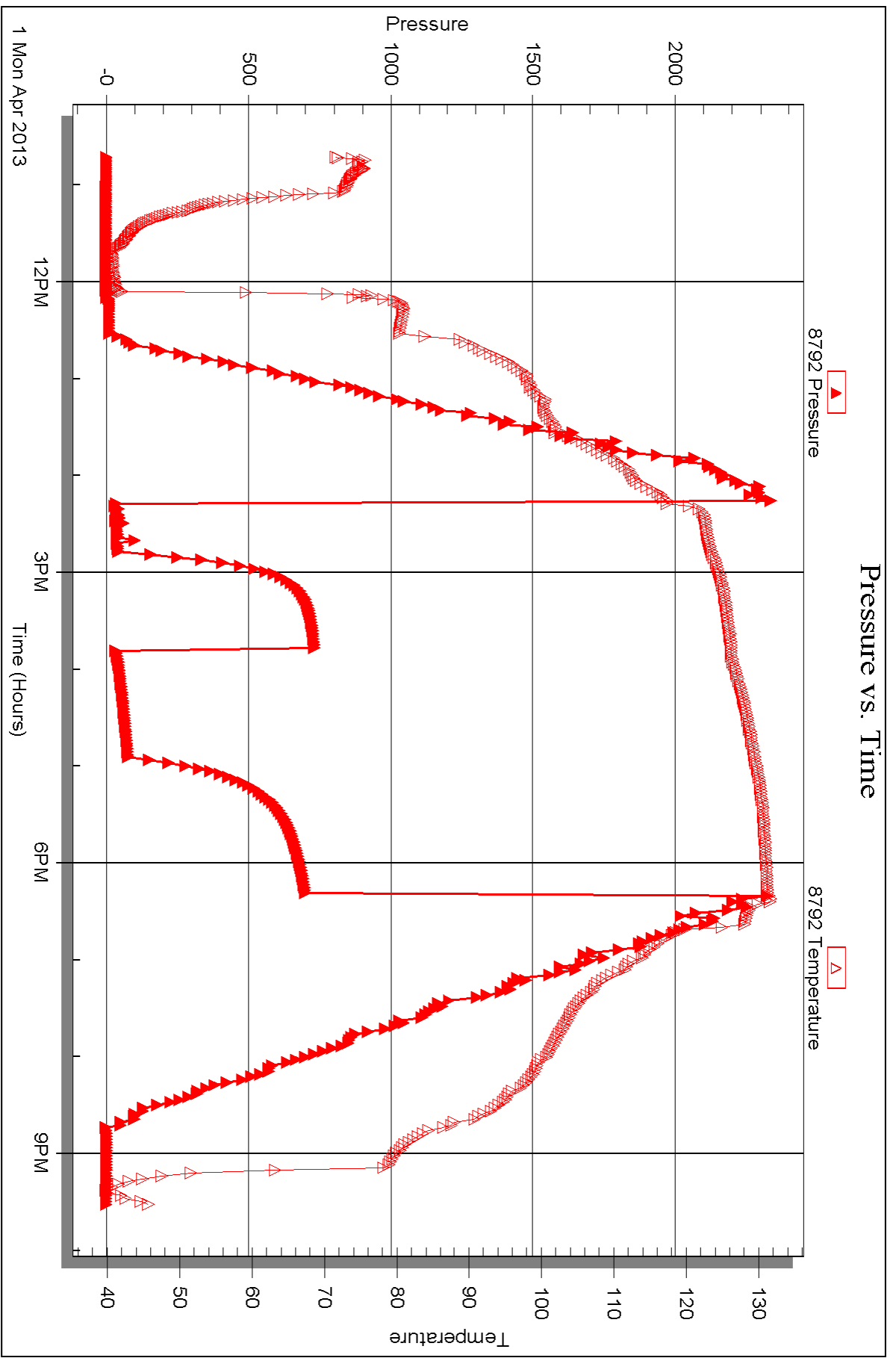


Serial #: 8792

Outside McCoy Petroleum Corp.

Halbower "A" 2-3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

8080 E. Central Ste. 300
Wichita, KS 67206-2366

ATTN: Dave Williams

Halbower "A" 2-3

3-34s-8w Harper,KS

Start Date: 2013.04.02 @ 07:40:28

End Date: 2013.04.02 @ 16:20:43

Job Ticket #: 50871 DST #: 2

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

Printed: 2013.04.09 @ 09:16:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.
 8080 E. Central Ste. 300
 Wichita, KS 67206-2366
 ATTN: Dave Williams

3-34s-8w Harper, KS
Halbower "A" 2-3
 Job Ticket: 50871 **DST#: 2**
 Test Start: 2013.04.02 @ 07:40:28

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:57:58
 Time Test Ended: 16:20:43
 Interval: **4642.00 ft (KB) To 4662.00 ft (KB) (TVD)**
 Total Depth: 4662.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 1377.00 ft (KB)
 1368.00 ft (CF)
 KB to GR/CF: 9.00 ft

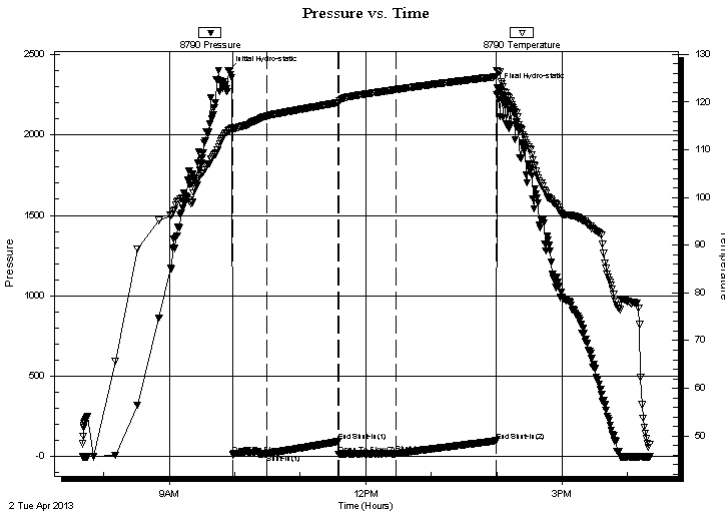
Serial #: 8790

Inside

Press @ Run Depth: 17.92 psig @ 4643.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.02 End Date: 2013.04.02 Last Calib.: 2013.04.02
 Start Time: 07:40:33 End Time: 16:20:43 Time On Btm: 2013.04.02 @ 09:53:58
 Time Off Btm: 2013.04.02 @ 14:00:13

TEST COMMENT: IF: Weak blow . 1/2" - surf.
 IS: No blow
 FF: Weak blow . 1" throughout
 FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2401.73	113.91	Initial Hydro-static
4	11.82	114.22	Open To Flow (1)
35	17.27	117.08	Shut-In(1)
101	92.93	119.88	End Shut-In(1)
101	13.30	119.92	Open To Flow (2)
154	17.92	122.61	Shut-In(2)
246	98.37	125.32	End Shut-In(2)
247	2292.13	126.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig mud 100% mud	0.02
0.00	60 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

McCoy Petroleum Corp.

3-34s-8w Harper, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2366

Halbower "A" 2-3

Job Ticket: 50871

DST#: 2

ATTN: Dave Williams

Test Start: 2013.04.02 @ 07:40:28

Tool Information

Drill Pipe:	Length: 4461.00 ft	Diameter: 3.80 inches	Volume: 62.58 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: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 63.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4642.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.50 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4621.00	
Hydraulic tool	5.00			4626.00	
Jars	5.00			4631.00	
Safety Joint	2.00			4633.00	
Packer	5.00			4638.00	26.00 Bottom Of Top Packer
Packer	4.00			4642.00	
Stubb	1.00			4643.00	
Recorder	0.00	8790	Inside	4643.00	
Recorder	0.00	8792	Outside	4643.00	
Perforations	16.00			4659.00	
Bullnose	3.00			4662.00	20.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp.
8080 E. Central Ste. 300
Wichita, KS 67206-2366
ATTN: Dave Williams

3-34s-8w Harper,KS
Halbower "A" 2-3
Job Ticket: 50871 **DST#: 2**
Test Start: 2013.04.02 @ 07:40:28

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	4000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig mud 100%mud	0.025
0.00	60 GIP	0.000

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8790

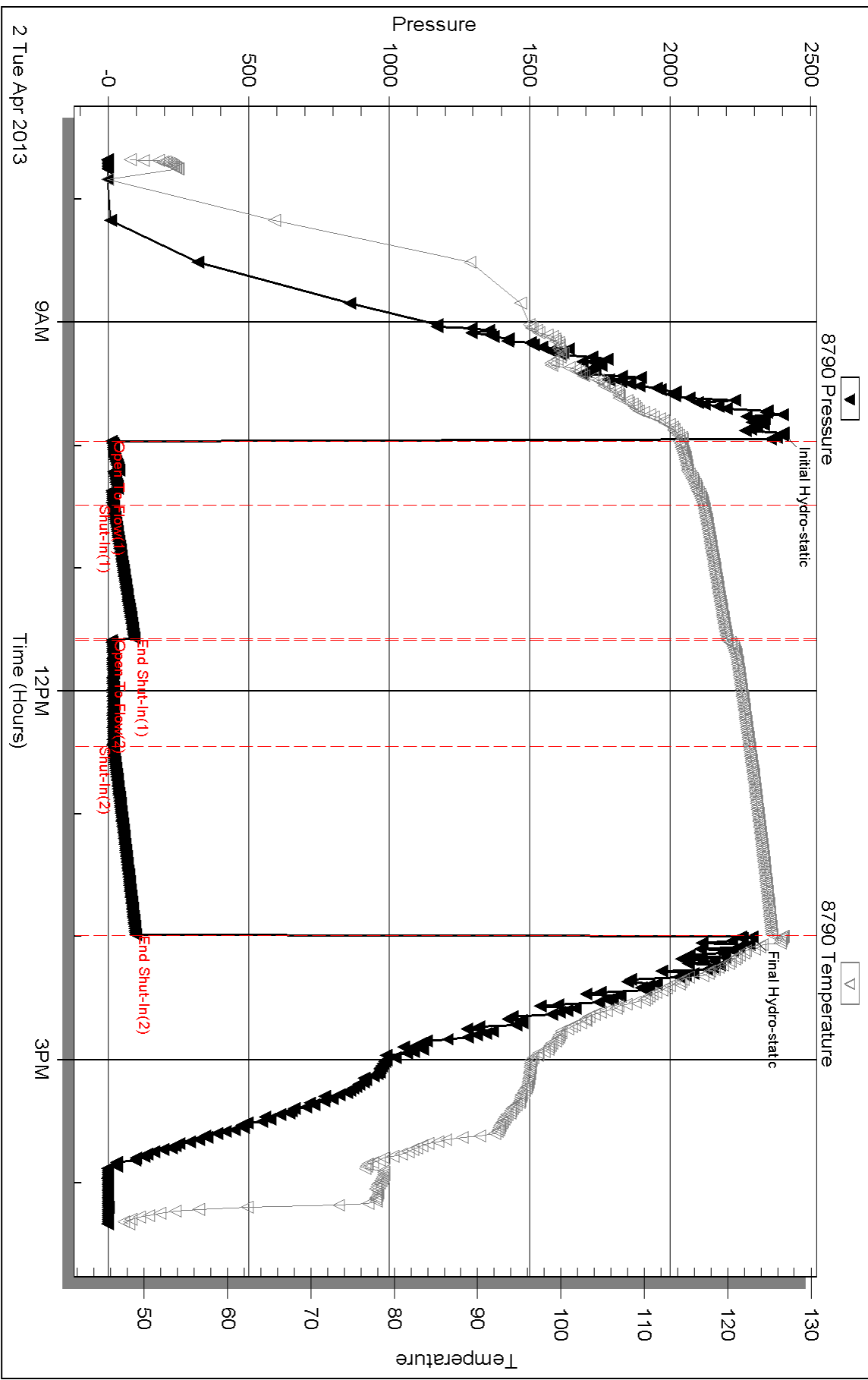
Inside

McCoy Petroleum Corp.

Halbower "A" 2-3

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50871

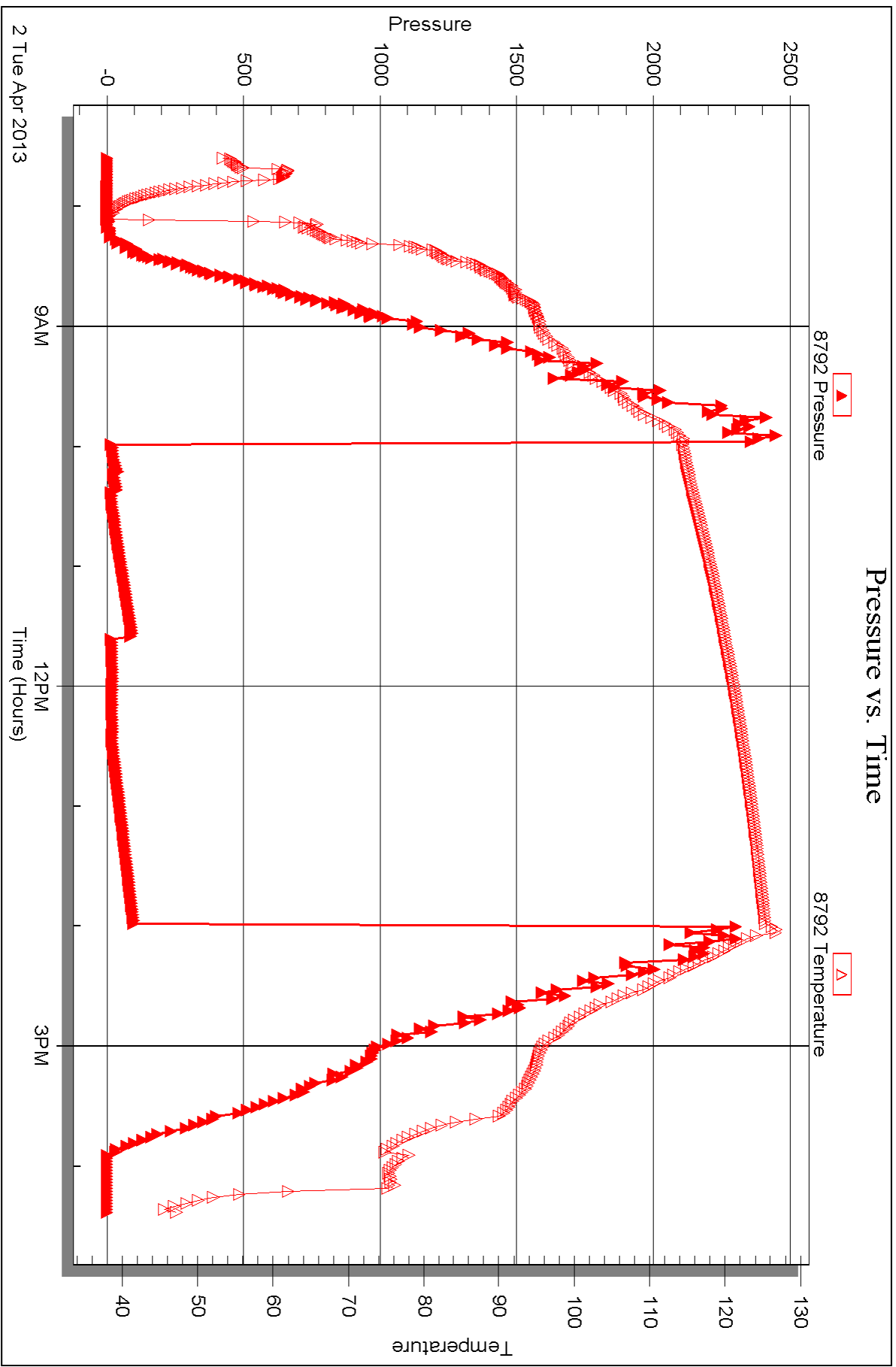
Printed: 2013.04.09 @ 09:16:42

Serial #: 8792

Outside McCoy Petroleum Corp.

Halbower "A" 2-3

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

8080 E. Central Ste. 300
Wichita, KS 67206-2366

ATTN: Dave Williams

Halbower "A" 2-3

3-34s-8w Harper,KS

Start Date: 2013.04.03 @ 03:14:30

End Date: 2013.04.03 @ 12:00:30

Job Ticket #: 50872 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.09 @ 09:15:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.
 8080 E. Central Ste. 300
 Wichita, KS 67206-2366
 ATTN: Dave Williams

3-34s-8w Harper, KS
Halbower "A" 2-3
 Job Ticket: 50872 **DST#: 3**
 Test Start: 2013.04.03 @ 03:14:30

GENERAL INFORMATION:

Formation: **Miss. (Warsaw)**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:48:45
 Time Test Ended: 12:00:30
Interval: 4662.00 ft (KB) To 4685.00 ft (KB) (TVD)
 Total Depth: 4685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 1377.00 ft (KB)
 1368.00 ft (CF)
 KB to GR/CF: 9.00 ft

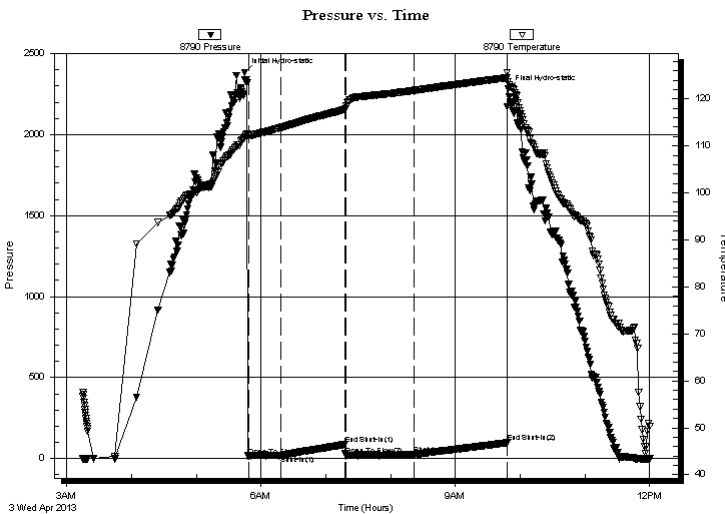
Serial #: 8790

Inside

Press @ RunDepth: 25.43 psig @ 4663.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.03 End Date: 2013.04.03 Last Calib.: 2013.04.03
 Start Time: 03:14:35 End Time: 12:00:30 Time On Btm: 2013.04.03 @ 05:44:45
 Time Off Btm: 2013.04.03 @ 09:49:00

TEST COMMENT: IF: Weak blow . 1/4 - 3/4"
 IS: no blow
 FF: Weak blow . 1" throughout
 FS: no blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2383.97	111.76	Initial Hydro-static
4	15.65	112.36	Open To Flow (1)
34	19.30	113.88	Shut-In(1)
93	87.41	117.76	End Shut-In(1)
94	17.44	117.91	Open To Flow (2)
158	25.43	121.81	Shut-In(2)
243	97.55	124.50	End Shut-In(2)
245	2280.01	123.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig mud 100% mud	0.05
0.00	70' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.

3-34s-8w Harper, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2366

Halbower "A" 2-3

Job Ticket: 50872

DST#: 3

ATTN: Dave Williams

Test Start: 2013.04.03 @ 03:14:30

GENERAL INFORMATION:

Formation: **Miss. (Warsaw)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:48:45

Time Test Ended: 12:00:30

Interval: **4662.00 ft (KB) To 4685.00 ft (KB) (TVD)**

Total Depth: 4685.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 48

Reference Elevations: 1377.00 ft (KB)

1368.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **8792** Outside

Press @ Run Depth: psig @ 4663.00 ft (KB)

Start Date: 2013.04.03

End Date:

2013.04.03

Start Time: 03:09:31

End Time:

12:02:26

Capacity: 8000.00 psig

Last Calib.:

2013.04.03

Time On Btm:

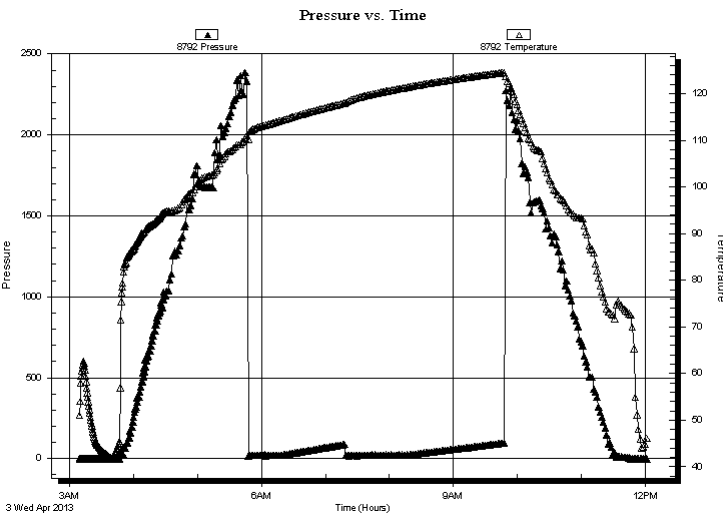
Time Off Btm:

TEST COMMENT: IF: Weak blow . 1/4 - 3/4"

IS: no blow

FF: Weak blow . 1" throughout

FS: no blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig mud 100% mud	0.05
0.00	70' 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

McCoy Petroleum Corp.

3-34s-8w Harper, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2366

Halbower "A" 2-3

Job Ticket: 50872

DST#: 3

ATTN: Dave Williams

Test Start: 2013.04.03 @ 03:14:30

Tool Information

Drill Pipe:	Length: 4461.00 ft	Diameter: 3.80 inches	Volume: 62.58 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: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 91000.00 lb
			<u>Total Volume: 63.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4662.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.50 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4641.00	
Hydraulic tool	5.00			4646.00	
Jars	5.00			4651.00	
Safety Joint	2.00			4653.00	
Packer	5.00			4658.00	26.00 Bottom Of Top Packer
Packer	4.00			4662.00	
Stubb	1.00			4663.00	
Recorder	0.00	8790	Inside	4663.00	
Recorder	0.00	8792	Outside	4663.00	
Perforations	19.00			4682.00	
Bullnose	3.00			4685.00	23.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp.
8080 E. Central Ste. 300
Wichita, KS 67206-2366
ATTN: Dave Williams

3-34s-8w Harper, KS
Halbower "A" 2-3
Job Ticket: 50872 **DST#: 3**
Test Start: 2013.04.03 @ 03:14:30

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	5000 ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig mud 100%mud	0.049
0.00	70' GIP	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

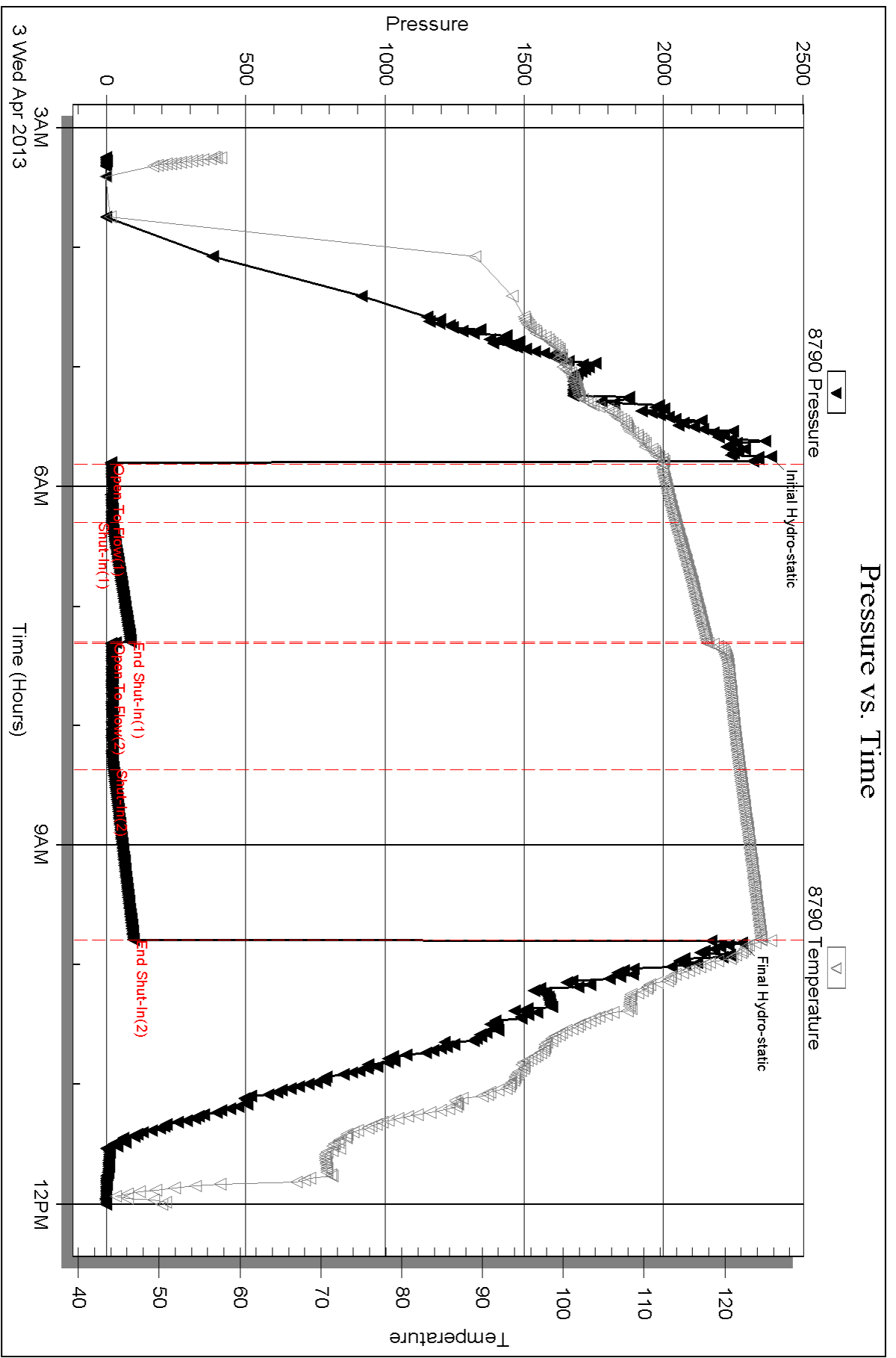
Serial #: 8790

Inside

McCoy Petroleum Corp.

Halbower "A" 2-3

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 50872

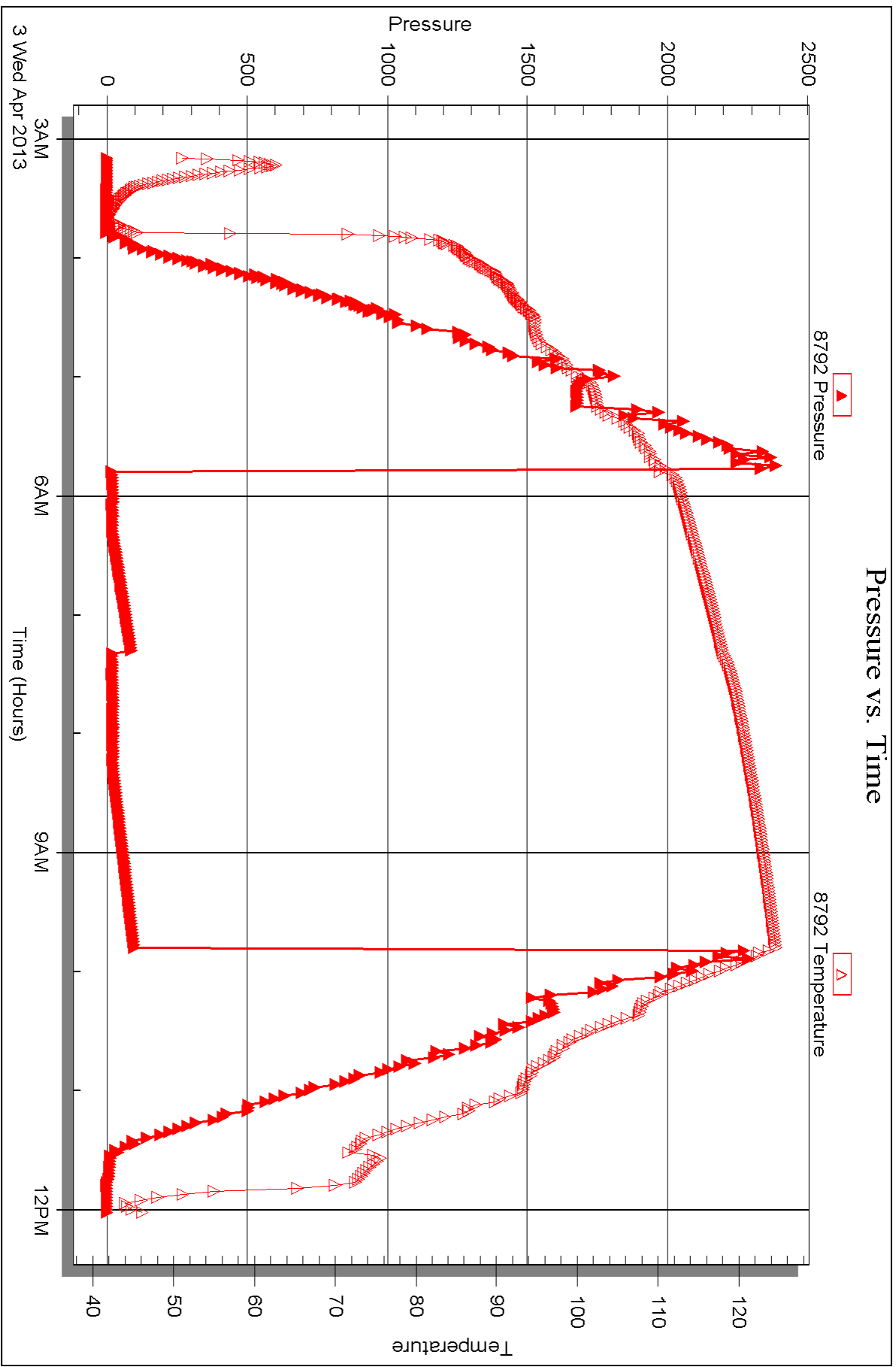
Printed: 2013.04.09 @ 09:15:55

Serial #: 8792

Outside McCoy Petroleum Corp.

Halbower "A" 2-3

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

8080 E. Central Ste. 300
Wichita, KS 67206-2366

ATTN: Dave Williams

Halbower "A" 2-3

3-34s-8w Harper,KS

Start Date: 2013.04.04 @ 07:26:22

End Date: 2013.04.04 @ 16:05:52

Job Ticket #: 50873 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.09 @ 09:15:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.
 8080 E. Central Ste. 300
 Wichita, KS 67206-2366
 ATTN: Dave Williams

3-34s-8w Harper, KS
Halbower "A" 2-3
 Job Ticket: 50873 **DST#: 4**
 Test Start: 2013.04.04 @ 07:26:22

GENERAL INFORMATION:

Formation: **Miss. "Warsaw"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:35:07
 Time Test Ended: 16:05:52
 Interval: **4700.00 ft (KB) To 4740.00 ft (KB) (TVD)**
 Total Depth: 4740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 1377.00 ft (KB)
 1368.00 ft (CF)
 KB to GR/CF: 9.00 ft

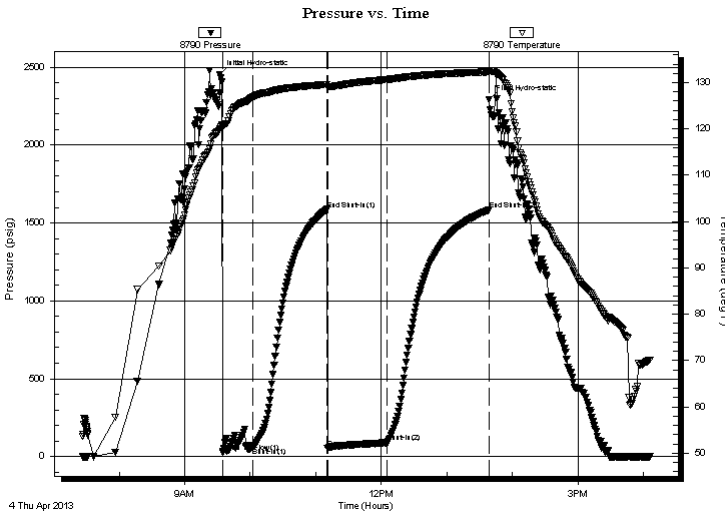
Serial #: 8790

Inside

Press @ Run Depth: 90.45 psig @ 4701.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.04 End Date: 2013.04.04 Last Calib.: 2013.04.04
 Start Time: 07:26:27 End Time: 16:05:52 Time On Btm: 2013.04.04 @ 09:32:07
 Time Off Btm: 2013.04.04 @ 13:38:52

TEST COMMENT: IF: Good blow . 1/4" - 10"
 IS: No blow
 FF: Strong blow . 1/4" - BOB @ 57min.
 FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2454.79	120.10	Initial Hydro-static
3	29.56	120.59	Open To Flow (1)
30	58.15	126.84	Shut-In(1)
99	1587.02	129.61	End Shut-In(1)
99	52.31	129.13	Open To Flow (2)
154	90.45	130.65	Shut-In(2)
247	1583.32	132.33	End Shut-In(2)
247	2291.80	132.63	Final Hydro-static

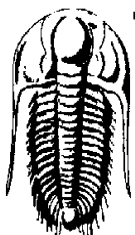
Recovery

Length (ft)	Description	Volume (bbl)
60.00	OGWCM 5%oil, 7%gas, 8%w tr, 80%mc0.30	
60.00	SLI WOGCM 1%w tr, 4%oil, 5%gas, 90%0.30	
30.00	Drig mud 100%mud	0.15
0.00	285' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.
 8080 E. Central Ste. 300
 Wichita, KS 67206-2366
 ATTN: Dave Williams

3-34s-8w Harper, KS
Halbower "A" 2-3
 Job Ticket: 50873 **DST#: 4**
 Test Start: 2013.04.04 @ 07:26:22

GENERAL INFORMATION:

Formation: **Miss. "Warsaw "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:35:07
 Time Test Ended: 16:05:52

Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 48

Interval: 4700.00 ft (KB) To 4740.00 ft (KB) (TVD)
 Total Depth: 4740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

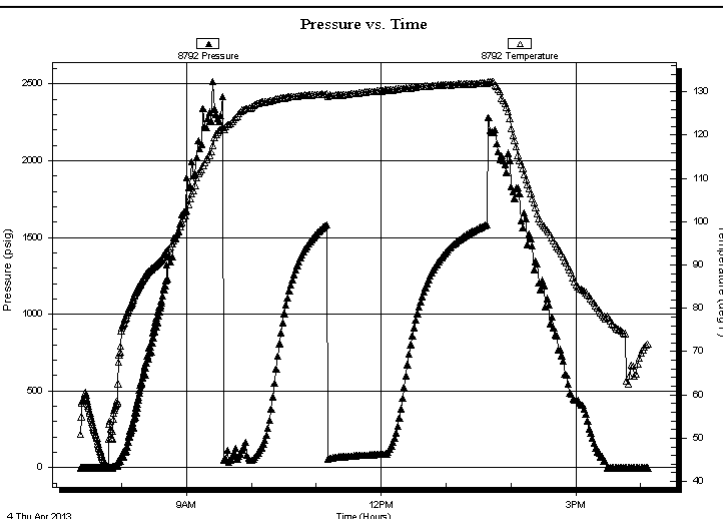
Reference Elevations: 1377.00 ft (KB)
 1368.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8792

Outside

Press @ Run Depth: psig @ 4701.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.04 End Date: 2013.04.04 Last Calib.: 2013.04.04
 Start Time: 07:22:10 End Time: 16:06:35 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Good blow . 1/4" - 10"
 IS! No blow
 FF: Strong blow . 1/4" - BOB @ 57min.
 FS! No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OGWCM 5%oil, 7%gas, 8%w tr, 80%mc0.30	0.30
60.00	SLI WOGCM 1%w tr, 4%oil, 5%gas, 90%0.30	0.30
30.00	Drig mud 100%mud	0.15
0.00	285' 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

McCoy Petroleum Corp.

3-34s-8w Harper, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2366

Halbower "A" 2-3

Job Ticket: 50873

DST#: 4

ATTN: Dave Williams

Test Start: 2013.04.04 @ 07:26:22

Tool Information

Drill Pipe:	Length: 4524.00 ft	Diameter: 3.80 inches	Volume: 63.46 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: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 91000.00 lb
			<u>Total Volume: 64.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4700.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.50 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4679.00	
Hydraulic tool	5.00			4684.00	
Jars	5.00			4689.00	
Safety Joint	2.00			4691.00	
Packer	5.00			4696.00	26.00 Bottom Of Top Packer
Packer	4.00			4700.00	
Stubb	1.00			4701.00	
Recorder	0.00	8790	Inside	4701.00	
Recorder	0.00	8792	Outside	4701.00	
Perforations	2.00			4703.00	
Change Over Sub	0.50			4703.50	
Drill Pipe	31.50			4735.00	
Change Over Sub	1.00			4736.00	
Perforations	1.00			4737.00	
Bullnose	3.00			4740.00	40.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp.

3-34s-8w Harper,KS

8080 E. Central Ste. 300
Wichita, KS 67206-2366

Halbower "A" 2-3

Job Ticket: 50873

DST#: 4

ATTN: Dave Williams

Test Start: 2013.04.04 @ 07:26:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

4000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OGWCM 5%oil, 7%gas, 8%w tr, 80%mud	0.295
60.00	SLI WOGCM 1%w tr, 4%oil, 5%gas, 90%mud	0.295
30.00	Drig mud 100%mud	0.148
0.00	285' GIP	0.000

Total Length: 150.00 ft

Total Volume: 0.738 bbl

Num Fluid Samples: 0

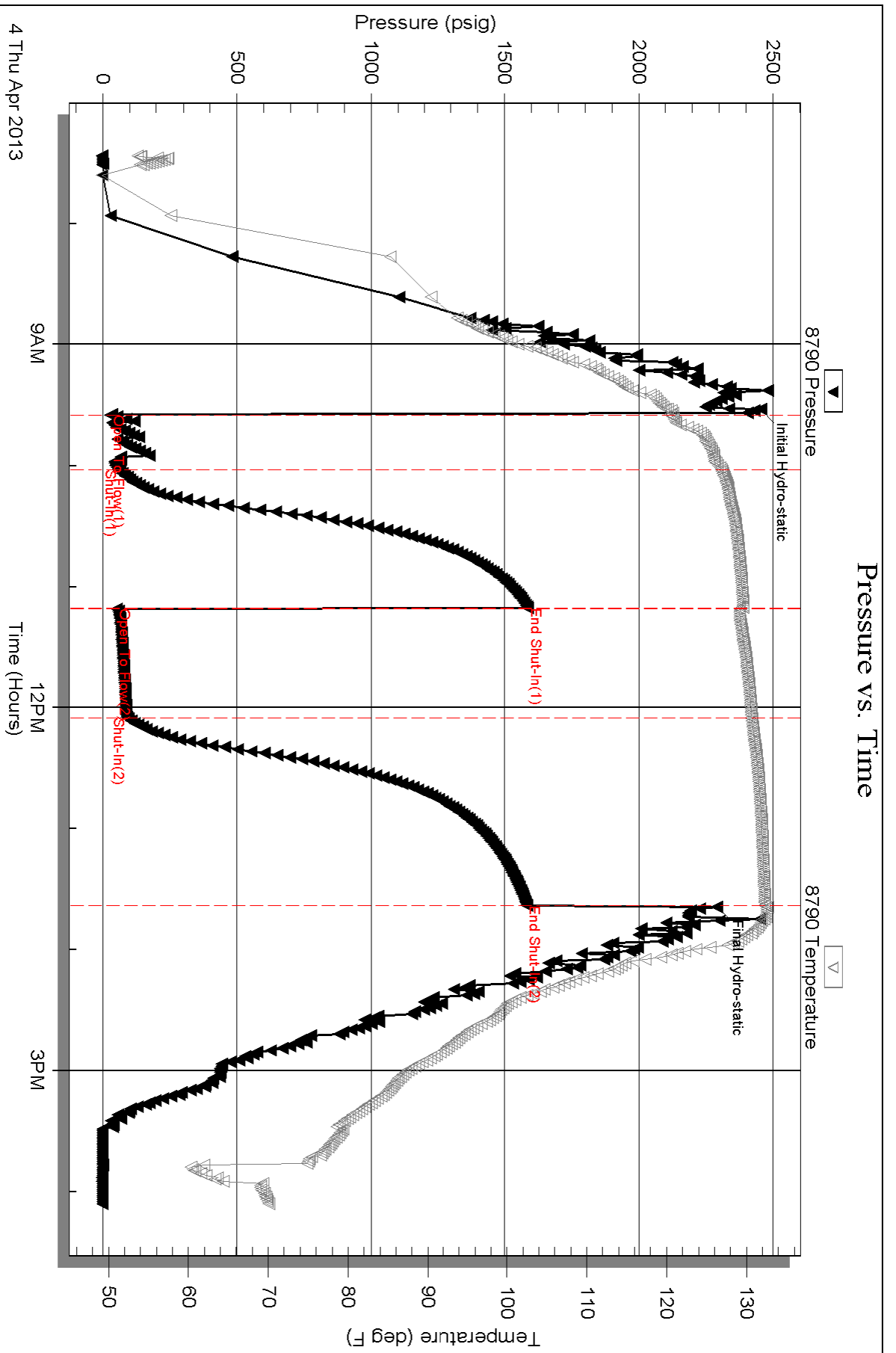
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

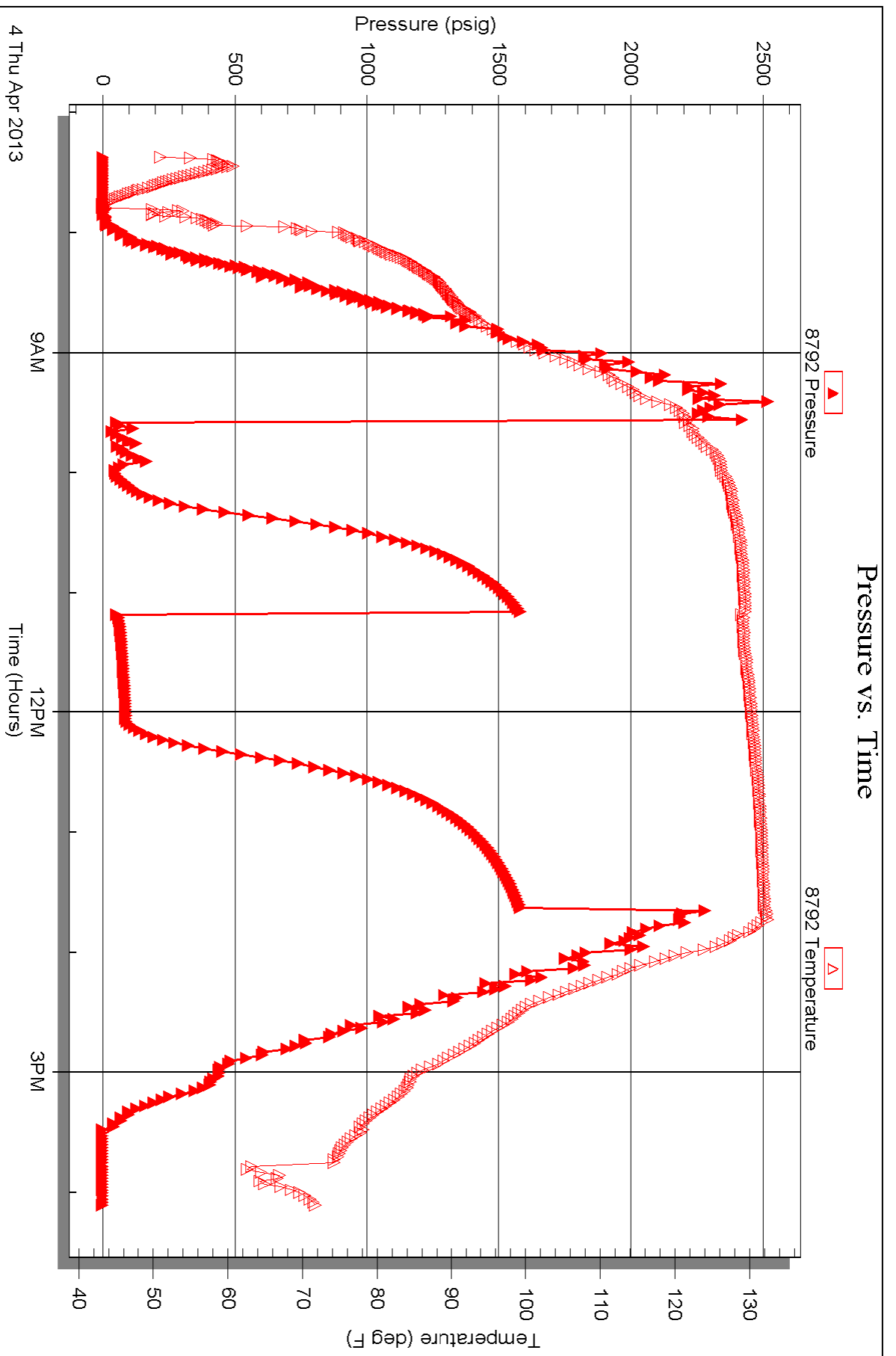


Serial #: 8792

Outside McCoy Petroleum Corp.

Halbower "A" 2-3

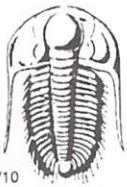
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 50873

Printed: 2013.04.09 @ 09:15:16



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50870

4/10

Well Name & No. Halbower "A" 2-3 Test No. 1 Date 4-1-13
 Company McCoy Petro. Corp. Elevation 1377 KB 1368 GL
 Address 8080 E. Central Ste. 300 Wichita, KS 67206 - 23660
 Co. Rep / Geo. Dave Williams Rig Sterling 4
 Location: Sec. 3 Twp. 34s. Rge. 8w. Co. Harper State KS

Interval Tested 4616-4642 Zone Tested Miss. (Salem)
 Anchor Length 26 Drill Pipe Run 4429 Mud Wt. 9.5
 Top Packer Depth 4611 Drill Collars Run 179 Vis 50
 Bottom Packer Depth 4616 Wt. Pipe Run Ø WL 7.2
 Total Depth 4642 Chlorides 4000 ppm System LCM 2#

Blow Description IF: Strong blow. BOB 1 1/2 min. No GTS.
ISI: No blow.
FF: Strong blow. BOB immed No GTS.
FST: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1400</u>	<u>GIP</u>	<u>100</u>			
<u>135</u>	<u>WCM</u>		<u>20</u>	<u>80</u>	
<u>10</u>	<u>SW</u>		<u>100</u>		

Rec Total 1535 BHT 132 Gravity N/C API RW 12 @ 43 °F Chlorides 12400 ppm
 (A) Initial Hydrostatic 2380 Test 1250 T-On Location 1020
 (B) First Initial Flow 21 Jars 250 T-Started 1050
 (C) First Final Flow 39 Safety Joint 75 T-Open 1418
 (D) Initial Shut-In 730 Circ Sub T-Pulled 1820
 (E) Second Initial Flow 27 Hourly Standby 1 hour 100 T-Out 2129
 (F) Second Final Flow 75 Mileage 140 217 Comments
 (G) Final Shut-In 698 Sampler
 (H) Final Hydrostatic 2316 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1892
 Accessibility MP/DST Disc't

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 95
 Sub Total 1892

Approved By Daniel P. Williams Our Representative Ryan Reynolds
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50871

Well Name & No. Halbawer 'A' 2-3 Test No. 2 Date 4-2-13
 Company McCoy Petro. Corp. Elevation 1377 KB 1368 GL
 Address 8080 E. Central Ste. 300 Wichita, KS 67206-2366
 Co. Rep / Geo. Dave Williams Rig Sterling #4
 Location: Sec. 3 Twp. 34s Rge. 8w Co. Harper State KS

Interval Tested 4642-4662 Zone Tested Miss.
 Anchor Length 20' Drill Pipe Run 4461 Mud Wt. 9.5
 Top Packer Depth 4637 Drill Collars Run 179 Vis 50
 Bottom Packer Depth 4642 Wt. Pipe Run Ø WL 7.2
 Total Depth 4662 Chlorides 4000 ppm System LCM 2#
 Blow Description IF: Weak blow: 1/2" - Surf. ISI: No blow

FF: Weak blow, 1" throughout
FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GIP</u>	<u>100</u>			
<u>5</u>	<u>Dirty mud</u>			<u>100</u>	

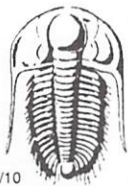
Rec Total 65 BHT 127 Gravity N/C API RW N/C @ N/C °F Chlorides 4000 ppm

(A) Initial Hydrostatic	<u>2402</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>0715</u>
(B) First Initial Flow	<u>12</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>0740</u>
(C) First Final Flow	<u>17</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>0958</u>
(D) Initial Shut-In	<u>93</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>1400</u>
(E) Second Initial Flow	<u>13</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>1621</u>
(F) Second Final Flow	<u>18</u>	<input checked="" type="checkbox"/> Mileage	<u>140</u> 217	Comments	
(G) Final Shut-In	<u>98</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2292</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>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Day Standby		Total	<u>1792</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1792</u>		

Approved By Paul P. Williams

Our Representative Ryan Reynolds

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50872

Well Name & No. Halbower "A" 2-3 Test No. 3 Date 4-3-13
 Company McCoy Petro. Corp. Elevation 1377 KB 1368 GL
 Address 8080 E. Central Ste. 300 Wichita, KS 67206-2366
 Co. Rep / Geo. Dave Williams Rig Sterling #4
 Location: Sec. 3 Twp. 34s. Rge. 8w. Co. Harper State KS

Interval Tested 4662-4685 Zone Tested Miss. (Warsaw)
 Anchor Length 23 Drill Pipe Run 4461 Mud Wt. 9.5
 Top Packer Depth 4657 Drill Collars Run 179 Vis 63
 Bottom Packer Depth 4662 Wt. Pipe Run ∅ WL 10.8
 Total Depth 4685 Chlorides 5000 ppm System LCM 3#
 Blow Description IF: Weak blow, 1/4 - 3/4" ISI: No blow

FF: Weak blow, 1" throughout
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>GTP</u>	<u>100</u>			
<u>10</u>	<u>Dirty mud</u>			<u>100</u>	

Rec Total 80 BHT 125 Gravity N/C API RW N/C @ N/C °F Chlorides 5000 ppm

(A) Initial Hydrostatic	<u>2384</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>0300</u>
(B) First Initial Flow	<u>16</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>0315</u>
(C) First Final Flow	<u>19</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>0549</u>
(D) Initial Shut-In	<u>87</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>0948</u>
(E) Second Initial Flow	<u>17</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>1201</u>
(F) Second Final Flow	<u>25</u>	<input checked="" type="checkbox"/> Mileage	<u>140</u> 217	Comments	
(G) Final Shut-In	<u>98</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2280</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>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Flow	<u>60</u>	<input type="checkbox"/> Day Standby		Total	<u>1792</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1792</u>		

Approved By Daniel P. Wilk Our Representative Ryan Reynolds
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50873

Well Name & No. Halbower "A" 2-3 Test No. 4 Date 4-4-13
 Company McCoy Petro. Corp. Elevation 1377 KB 1368 GL
 Address 8080 E. Central Ste. 300 Wichita, KS 67206-2366
 Co. Rep / Geo. Dave Williams Rig Sterling #4
 Location: Sec. 3 Twp. 34s. Rge. 8w. Co. Harper State KS

Interval Tested 4700-4740 Zone Tested Miss. "Warsaw"
 Anchor Length 40 Drill Pipe Run 4524 Mud Wt. 9.5
 Top Packer Depth 4695 Drill Collars Run 179 Vis 48
 Bottom Packer Depth 4700 Wt. Pipe Run Ø WL 10.4
 Total Depth 4740 Chlorides 4000 ppm System LCM 3*

Blow Description IF: Good blow, 1/4" - 10".
ISI: No blow.
FF: Strong blow, 1/4" - BOB @ 57 min.
FST: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>285</u>	<u>GIP</u>				
<u>30</u>	<u>Dry mud</u>			<u>100</u>	
<u>60</u>	<u>SLI WOGCM</u>	<u>5</u>	<u>4</u>	<u>1</u>	<u>90</u>
<u>60</u>	<u>DGWCm</u>	<u>7</u>	<u>5</u>	<u>8</u>	<u>80</u>

Rec Total 435 BHT 133 Gravity N/C API RW N/C @ N/C °F Chlorides 4000 ppm

(A) Initial Hydrostatic 2455 Test 1250 T-On Location 0700
 (B) First Initial Flow 30 Jars 250 T-Started 0726
 (C) First Final Flow 58 Safety Joint 75 T-Open 0935
 (D) Initial Shut-In 1587 Circ Sub T-Pulled 1336
 (E) Second Initial Flow 53 Hourly Standby T-Out 1604
 (F) Second Final Flow 90 Mileage 140 217 Comments _____
 (G) Final Shut-In 1583 Sampler _____
 (H) Final Hydrostatic 2292 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1792
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____

Approved By Daniel P. Williams Our Representative Ryan Reynolds

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