



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water
Ste. 300
Wichita KS 67202

ATTN: Robert Hendrix

Turtle Creek #1-30

30-5s-30w Decatur,KS

Start Date: 2012.03.29 @ 12:00:00

End Date: 2012.03.29 @ 19:20:00

Job Ticket #: 45592 DST #: 1

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

Printed: 2012.04.05 @ 14:13:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

30-5s-30w Decatur, KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45592 **DST#: 1**

Test Start: 2012.03.29 @ 12:00:00

GENERAL INFORMATION:

Formation: **Tor. LKC-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:19:30

Time Test Ended: 19:20:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3911.00 ft (KB) To 3995.00 ft (KB) (TVD)

Reference Elevations: 2946.00 ft (KB)

Total Depth: 3995.00 ft (KB) (TVD)

2941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 118.76 psig @ 3927.60 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.29 End Date: 2012.03.29

Last Calib.: 2012.03.29

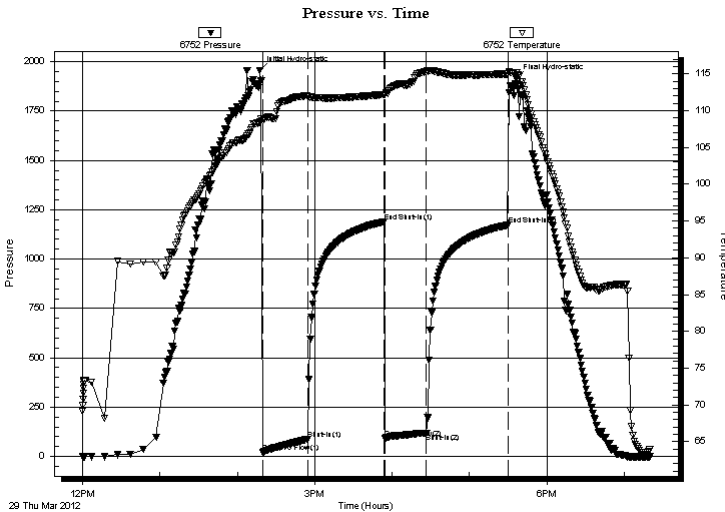
Start Time: 12:00:05 End Time: 19:19:59

Time On Btm: 2012.03.29 @ 14:17:30

Time Off Btm: 2012.03.29 @ 17:36:00

TEST COMMENT: IF: Weak surface blow over 30 mins.
IS: No blow back over 60 mins.
FF: Weak surface blow over 30 mins.
FS: No blow back over 60 mins.

PRESSURE SUMMARY



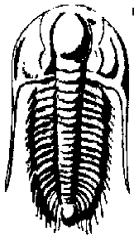
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.65	108.42	Initial Hydro-static
2	19.53	108.58	Open To Flow (1)
37	87.59	111.92	Shut-In(1)
96	1189.06	112.18	End Shut-In(1)
97	91.77	112.14	Open To Flow (2)
129	118.76	115.26	Shut-In(2)
192	1172.86	114.97	End Shut-In(2)
199	1914.67	115.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	mud-100%m	1.36

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

30-5s-30w Decatur, KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

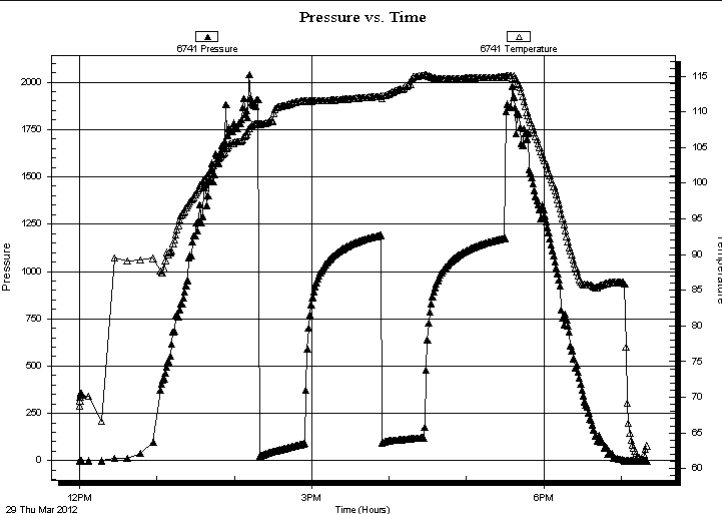
Job Ticket: 45592 **DST#: 1**
Test Start: 2012.03.29 @ 12:00:00

GENERAL INFORMATION:

Formation: **Tor. LKC-A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:19:30
 Time Test Ended: 19:20:00
 Interval: **3911.00 ft (KB) To 3995.00 ft (KB) (TVD)**
 Total Depth: 3995.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chuck Kreutzer Jr.
 Unit No: 61
 Reference Elevations: 2946.00 ft (KB)
 2941.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6741 Outside
 Press @ Run Depth: psig @ 3927.60 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.29 End Date: 2012.03.29 Last Calib.: 2012.03.29
 Start Time: 12:00:05 End Time: 19:19:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak surface blow over 30 mins.
 IS: No blow back over 60 mins.
 FF: Weak surface blow over 30 mins.
 FS: No blow back over 60 mins.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
220.00	mud-100%m	1.36

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45592

DST#: 1

Test Start: 2012.03.29 @ 12:00:00

Tool Information

Drill Pipe:	Length: 3722.00 ft	Diameter: 3.80 inches	Volume: 52.21 bbl	Tool Weight: 2600.00 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: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 53.14 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3911.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.48 ft			
Tool Length:	111.48 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			3888.00	
Hydraulic tool	5.00			3893.00	
Jars	5.00			3898.00	
Safety Joint	3.00			3901.00	
Packer	5.00			3906.00	28.00 Bottom Of Top Packer
Packer	5.00			3911.00	
Stubb	1.00			3912.00	
Perforations	15.00			3927.00	
Change Over Sub	0.60			3927.60	
Recorder	0.00	6752	Inside	3927.60	
Recorder	0.00	6741	Outside	3927.60	
Blank Spacing	63.28			3990.88	
Change Over Sub	0.60			3991.48	
Bullnose	3.00			3994.48	83.48 Bottom Packers & Anchor

Total Tool Length: 111.48



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45592 **DST#: 1**
Test Start: 2012.03.29 @ 12:00:00

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	mud-100%m	1.364

Total Length: 220.00 ft Total Volume: 1.364 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

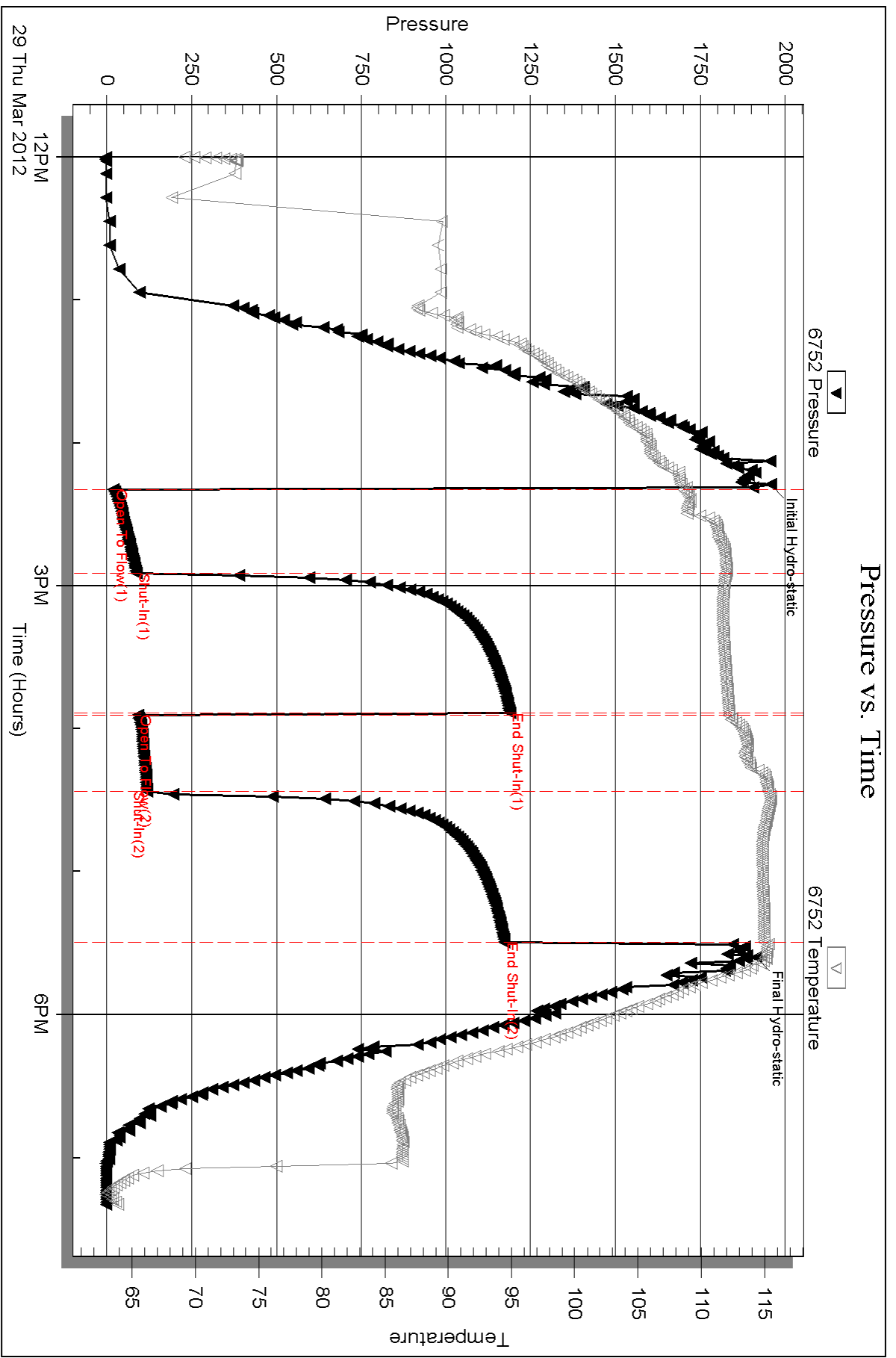
Serial #: 6752

Inside

Murfin Drilling Co. Inc.

Turtle Creek #1-30

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 45592

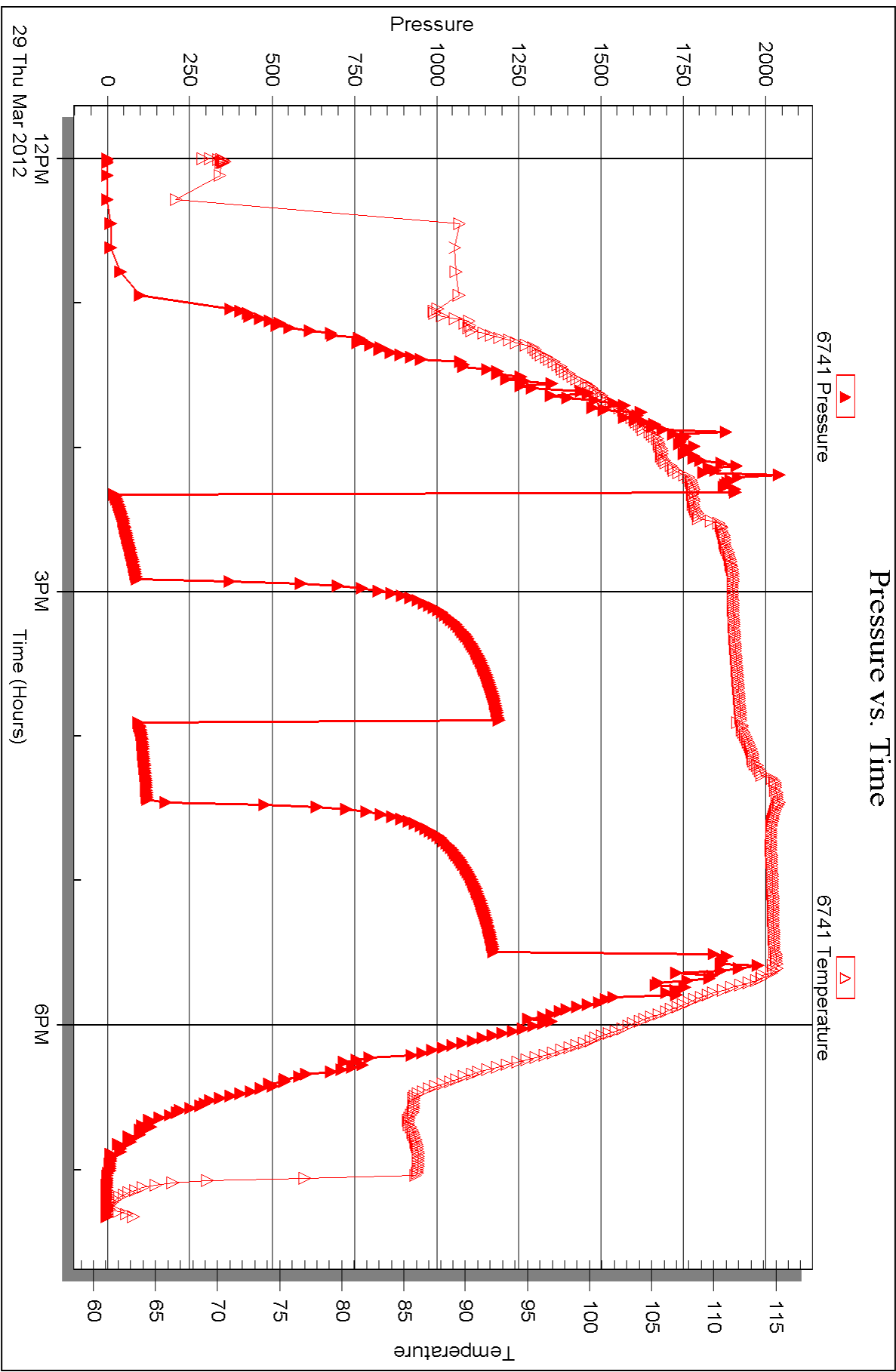
Printed: 2012.04.05 @ 14:13:44

Serial #: 6741

Outside Murfin Drilling Co. Inc.

Turtle Creek #1-30

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water
Ste. 300
Wichita KS 67202

ATTN: Robert Hendrix

Turtle Creek #1-30

30-5s-30w Decatur,KS

Start Date: 2012.03.30 @ 04:30:00

End Date: 2012.03.30 @ 11:26:00

Job Ticket #: 45593 DST #: 2

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

Printed: 2012.04.05 @ 14:12:22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

30-5s-30w Decatur, KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45593 **DST#: 2**

Test Start: 2012.03.30 @ 04:30:00

GENERAL INFORMATION:

Formation: **LKC-EF**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:30:30
 Time Test Ended: 11:26:00
 Interval: **4013.00 ft (KB) To 4036.00 ft (KB) (TVD)**
 Total Depth: 4036.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreuzer Jr.
 Unit No: 61
 Reference Elevations: 2946.00 ft (KB)
 2941.00 ft (CF)
 KB to GR/CF: 5.00 ft

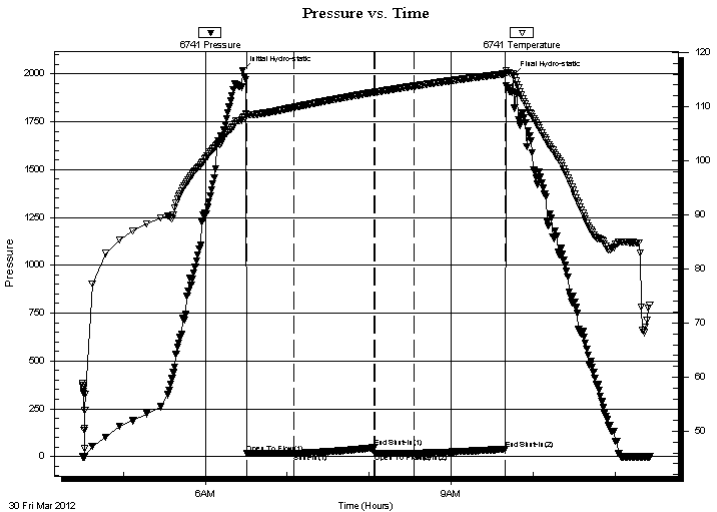
Serial #: 6741

Inside

Press @ Run Depth: 18.49 psig @ 4014.00 ft (KB)
 Start Date: 2012.03.30 End Date: 2012.03.30
 Start Time: 04:30:05 End Time: 11:25:59
 Capacity: 8000.00 psig
 Last Calib.: 2012.03.30
 Time On Btm: 2012.03.30 @ 06:27:30
 Time Off Btm: 2012.03.30 @ 09:45:30

TEST COMMENT: IF: Weak blow, Died in 17 mins.
 IS: No blow back over 60 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	2017.67	107.96	Initial Hydro-static
3	17.14	108.45	Open To Flow (1)
38	17.79	109.89	Shut-In(1)
96	47.20	112.66	End Shut-In(1)
97	17.77	112.66	Open To Flow (2)
125	18.49	113.81	Shut-In(2)
192	39.15	116.08	End Shut-In(2)
198	1990.30	116.02	Final Hydro-static

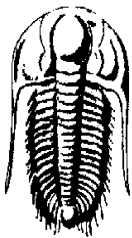
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud with oil specs	0.02

* Recovery from multiple tests

Gas Rates

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



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Murfin Drilling Co. Inc.
250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

30-5s-30w Decatur,KS

Turtle Creek #1-30

Job Ticket: 45593 DST#: 2
Test Start: 2012.03.30 @ 04:30:00

GENERAL INFORMATION:

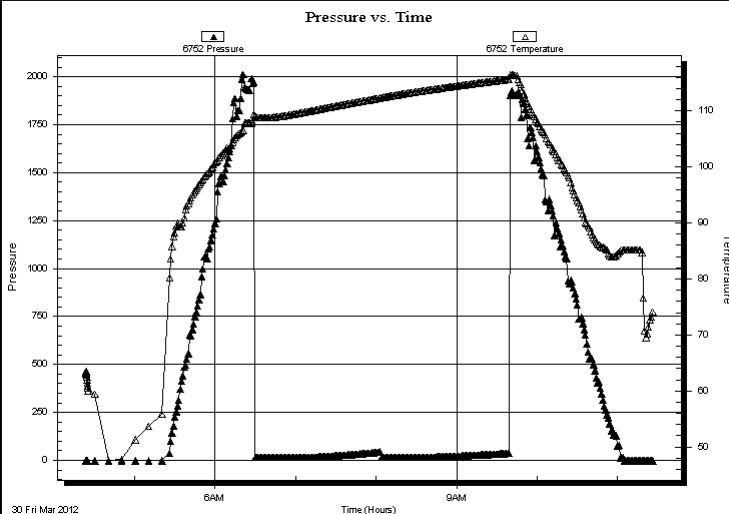
Formation:	LKC-EF		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	06:30:30		Tester: Chuck Kreuzer Jr.
Time Test Ended:	11:26:00		Unit No: 61
Interval:	4013.00 ft (KB) To 4036.00 ft (KB) (TVD)		Reference Elevations: 2946.00 ft (KB)
Total Depth:	4036.00 ft (KB) (TVD)		2941.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft

Serial #: 6752

Outside

Press @ Run Depth:	psig @	4014.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.03.30	End Date:	2012.03.30	Last Calib.:	2012.03.30
Start Time:	04:23:35	End Time:	11:25:59	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: Weak blow , Died in 17 mins.
IS: No blow back over 60 mins.
FF: No blow over 30 mins.
FS: No blow back over 60 mins.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil specs	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

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45593

DST#: 2

Test Start: 2012.03.30 @ 04:30:00

Tool Information

Drill Pipe:	Length: 3819.00 ft	Diameter: 3.80 inches	Volume: 53.57 bbl	Tool Weight: 2600.00 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: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.50 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4013.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	46.00 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			3995.00	
Hydraulic tool	5.00			4000.00	
Safety Joint	3.00			4003.00	
Packer	5.00			4008.00	23.00 Bottom Of Top Packer
Packer	5.00			4013.00	
Stubb	1.00			4014.00	
Recorder	0.00	6741	Inside	4014.00	
Recorder	0.00	6752	Outside	4014.00	
Perforations	19.00			4033.00	
Bullnose	3.00			4036.00	23.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45593 **DST#: 2**
Test Start: 2012.03.30 @ 04:30:00

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w ith oil specs	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 #: 6741

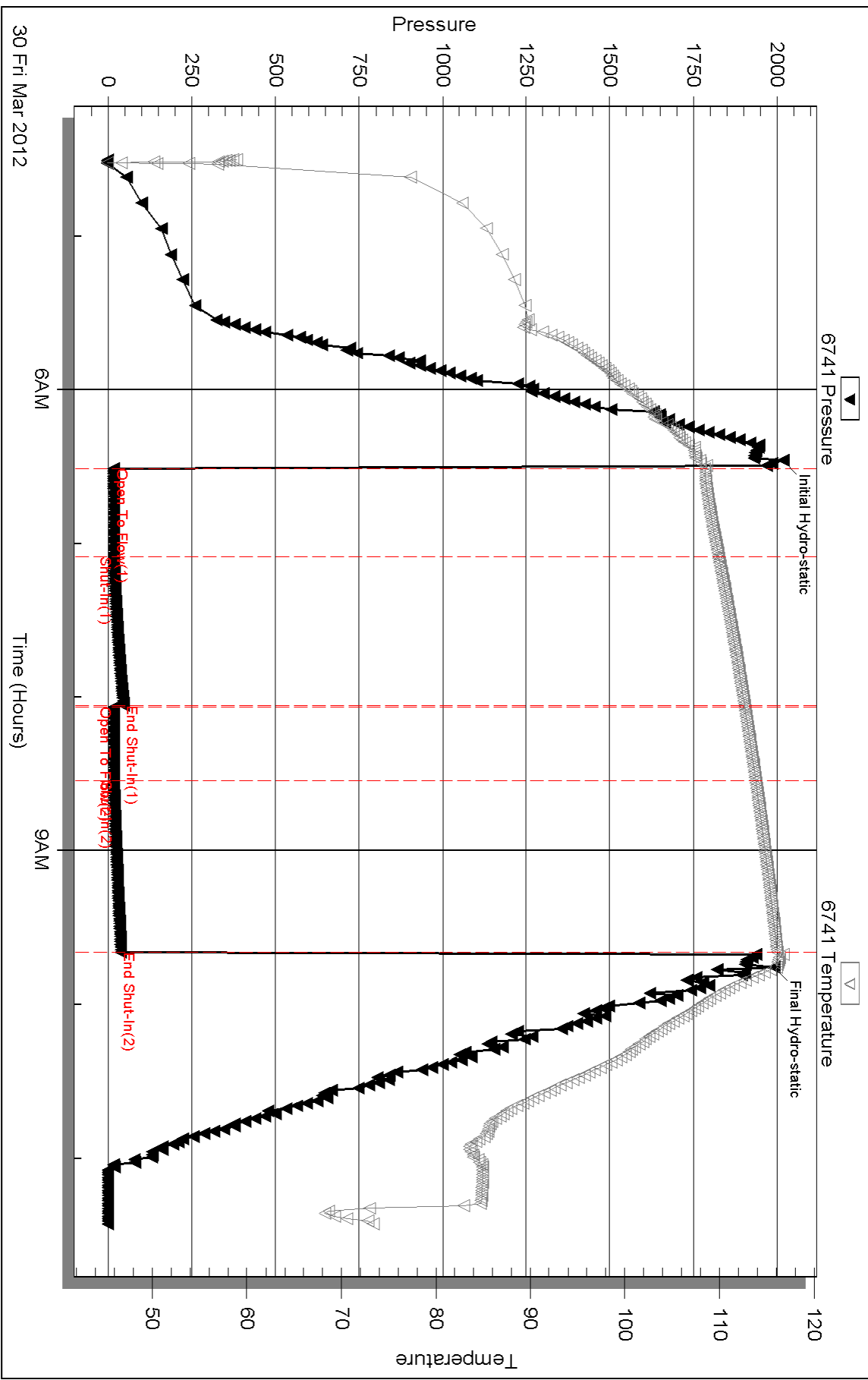
Inside

Murfin Drilling Co. Inc.

Turtle Creek #1-30

DST Test Number: 2

Pressure vs. Time

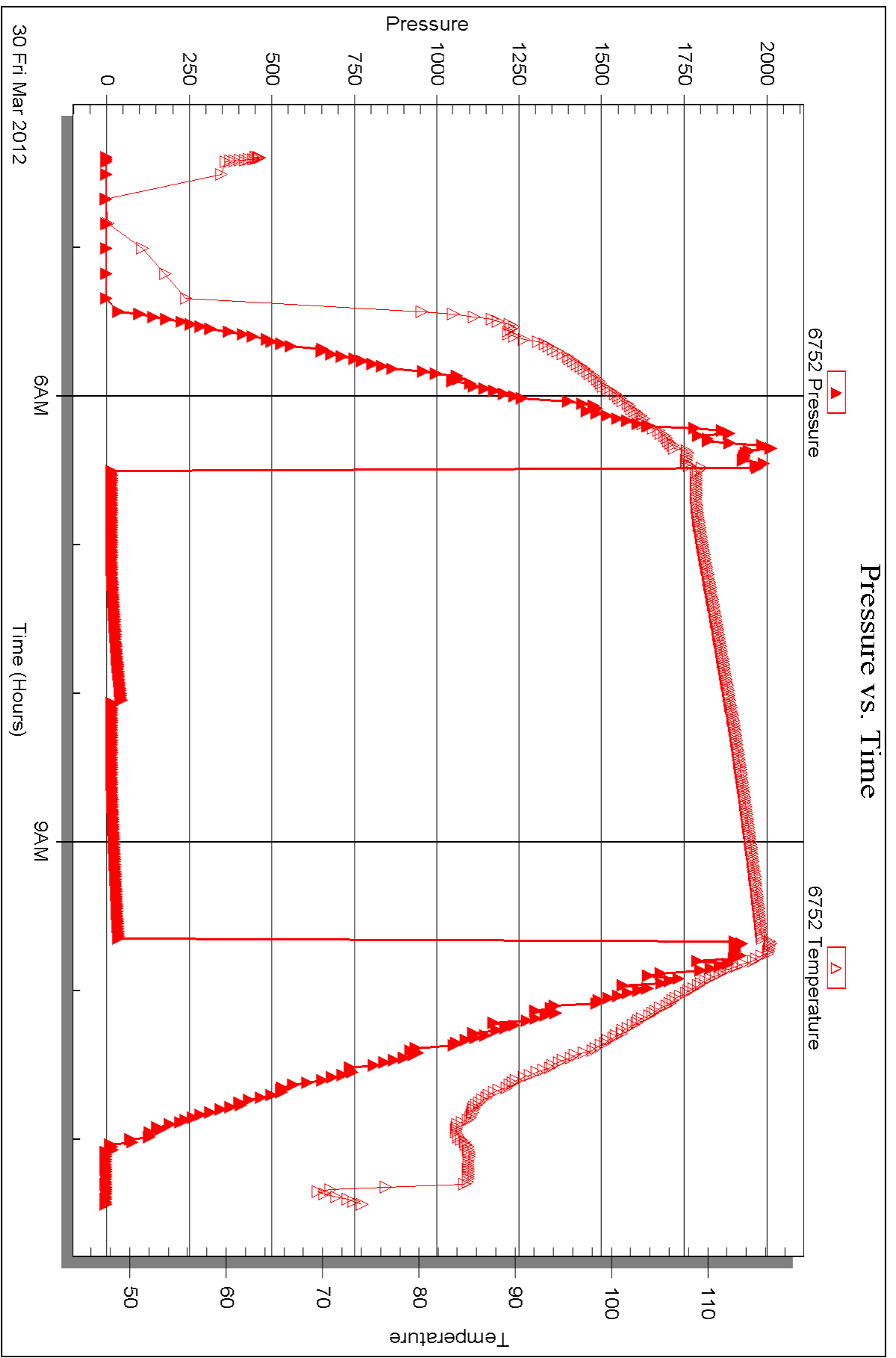


Serial #: 6752

Outside Murfin Drilling Co. Inc.

Turtle Creek #1-30

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water
Ste. 300
Wichita KS 67202

ATTN: Robert Hendrix

Turtle Creek #1-30

30-5s-30w Decatur,KS

Start Date: 2012.03.31 @ 01:50:00

End Date: 2012.03.31 @ 09:29:30

Job Ticket #: 45594 DST #: 3

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

Printed: 2012.04.05 @ 14:11:34



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

30-5s-30w Decatur, KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45594 **DST#: 3**

Test Start: 2012.03.31 @ 01:50:00

GENERAL INFORMATION:

Formation: **LKC-H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:30

Time Test Ended: 09:29:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4059.00 ft (KB) To 4125.00 ft (KB) (TVD)

Reference Elevations: 2946.00 ft (KB)

Total Depth: 4125.00 ft (KB) (TVD)

2941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 57.88 psig @ 4064.60 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.31

End Date:

2012.03.31

Last Calib.: 2012.03.31

Start Time: 01:50:05

End Time:

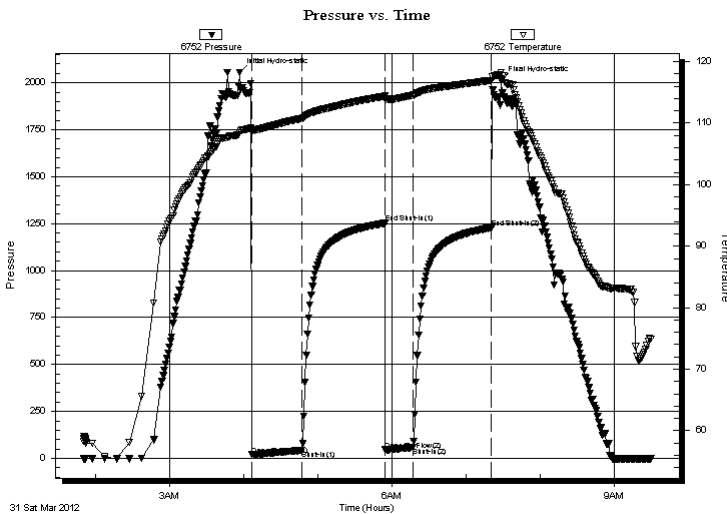
09:29:29

Time On Btm: 2012.03.31 @ 03:56:30

Time Off Btm: 2012.03.31 @ 07:28:30

TEST COMMENT: IF: Weak surface blow over 30 mins.
IS: No blow back over 60 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	2055.16	108.44	Initial Hydro-static
10	19.41	108.59	Open To Flow (1)
50	42.43	110.74	Shut-In(1)
118	1251.85	114.36	End Shut-In(1)
118	45.65	114.02	Open To Flow (2)
140	57.88	114.49	Shut-In(2)
204	1228.26	116.95	End Shut-In(2)
212	2011.10	118.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
83.00	mud-100%m	0.41

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45594

DST#: 3

Test Start: 2012.03.31 @ 01:50:00

Tool Information

Drill Pipe:	Length: 3872.00 ft	Diameter: 3.80 inches	Volume: 54.31 bbl	Tool Weight: 2600.00 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: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 55.24 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4059.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.23 ft			
Tool Length:	89.23 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			4041.00	
Hydraulic tool	5.00			4046.00	
Safety Joint	3.00			4049.00	
Packer	5.00			4054.00	23.00 Bottom Of Top Packer
Packer	5.00			4059.00	
Stubb	1.00			4060.00	
Perforations	4.00			4064.00	
Change Over Sub	0.60			4064.60	
Recorder	0.00	6752	Inside	4064.60	
Recorder	0.00	6741	Outside	4064.60	
Blank Spacing	32.03			4096.63	
Change Over Sub	0.60			4097.23	
Perforations	25.00			4122.23	
Bullnose	3.00			4125.23	66.23 Bottom Packers & Anchor

Total Tool Length: 89.23



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45594 **DST#: 3**
Test Start: 2012.03.31 @ 01:50:00

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: bbl		
Water Loss: 5.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
83.00	mud-100%m	0.408

Total Length: 83.00 ft Total Volume: 0.408 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

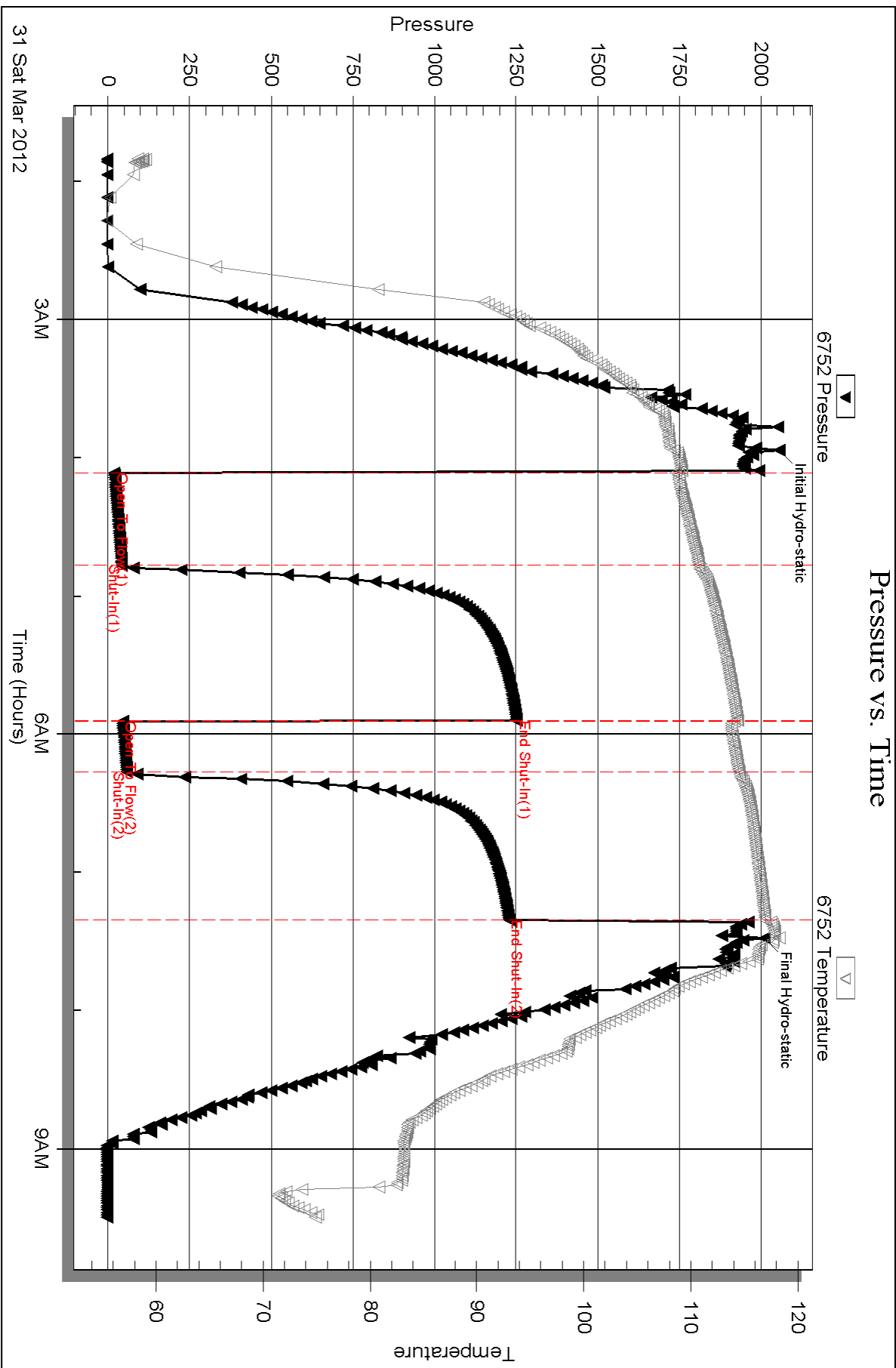
Serial #: 6752

Inside

Murfin Drilling Co. Inc.

Turtle Creek #1-30

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water
Ste. 300
Wichita KS 67202

ATTN: Robert Hendrix

Turtle Creek #1-30

30-5s-30w Decatur,KS

Start Date: 2012.03.31 @ 19:35:00

End Date: 2012.04.01 @ 01:26:00

Job Ticket #: 45595 DST #: 4

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

Printed: 2012.04.05 @ 14:10:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

30-5s-30w Decatur, KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45595 **DST#: 4**

Test Start: 2012.03.31 @ 19:35:00

GENERAL INFORMATION:

Formation: **LKC-K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:13:00

Time Test Ended: 01:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4120.00 ft (KB) To 4178.00 ft (KB) (TVD)

Reference Elevations: 2946.00 ft (KB)

Total Depth: 4178.00 ft (KB) (TVD)

2941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6741

Inside

Press @ Run Depth: 31.91 psig @ 4125.60 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.31

End Date:

2012.04.01

Last Calib.: 2012.04.01

Start Time:

19:35:05

End Time:

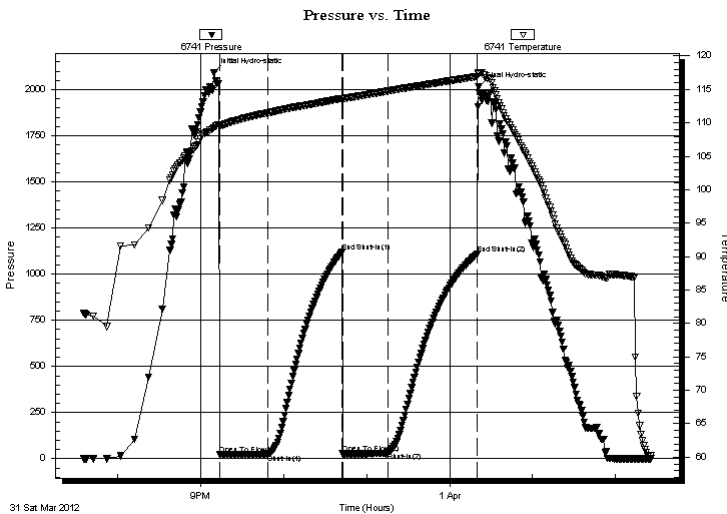
02:25:59

Time On Btm: 2012.03.31 @ 21:09:30

Time Off Btm: 2012.04.01 @ 00:21:00

TEST COMMENT: IF: Weak blow, Died in 20 mins.
IS: No blow back over 60 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	2093.51	109.31	Initial Hydro-static
4	21.61	109.46	Open To Flow (1)
39	26.20	111.50	Shut-In(1)
93	1119.45	113.64	End Shut-In(1)
93	26.63	113.30	Open To Flow (2)
126	31.91	114.72	Shut-In(2)
191	1108.95	116.93	End Shut-In(2)
192	2015.53	117.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

30-5s-30w Decatur, KS

Turtle Creek #1-30

Job Ticket: 45595 **DST#: 4**
Test Start: 2012.03.31 @ 19:35:00

GENERAL INFORMATION:

Formation: LKC-K-L		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 21:13:00		Tester: Chuck Kreutzer Jr.
Time Test Ended: 01:26:00		Unit No: 61
Interval: 4120.00 ft (KB) To 4178.00 ft (KB) (TVD)		Reference Elevations: 2946.00 ft (KB)
Total Depth: 4178.00 ft (KB) (TVD)		2941.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft

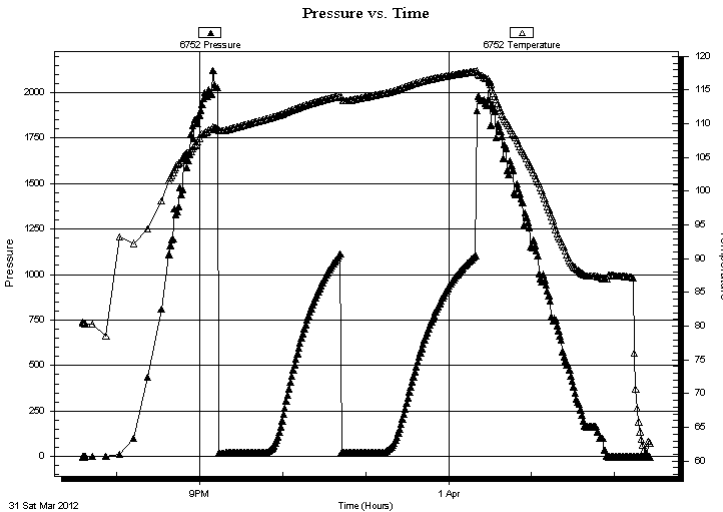
Serial #: 6752

Outside

Press @ RunDepth: psig @ 4125.60 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.03.31 End Date: 2012.04.01	Last Calib.: 2012.04.01
Start Time: 19:35:05 End Time: 02:25:59	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: Weak blow , Died in 20 mins.
IS: No blow back over 60 mins.
FF: No blow over 30 mins.
FS: No blow back over 60 mins.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
4.00	mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45595 **DST#: 4**
Test Start: 2012.03.31 @ 19:35:00

Tool Information

Drill Pipe:	Length: 3912.00 ft	Diameter: 3.80 inches	Volume: 54.88 bbl	Tool Weight:	2600.00 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: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 55.81 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4120.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.25 ft				
Tool Length:	81.25 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			4102.00	
Hydraulic tool	5.00			4107.00	
Safety Joint	3.00			4110.00	
Packer	5.00			4115.00	23.00 Bottom Of Top Packer
Packer	5.00			4120.00	
Stubb	1.00			4121.00	
Perforations	4.00			4125.00	
Change Over Sub	0.60			4125.60	
Recorder	0.00	6741	Inside	4125.60	
Recorder	0.00	6752	Outside	4125.60	
Blank Spacing	32.05			4157.65	
Change Over Sub	0.60			4158.25	
Perforations	17.00			4175.25	
Bullnose	3.00			4178.25	58.25 Bottom Packers & Anchor

Total Tool Length: 81.25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45595 **DST#: 4**
Test Start: 2012.03.31 @ 19:35:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	mud	0.020

Total Length: 4.00 ft Total Volume: 0.020 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6741

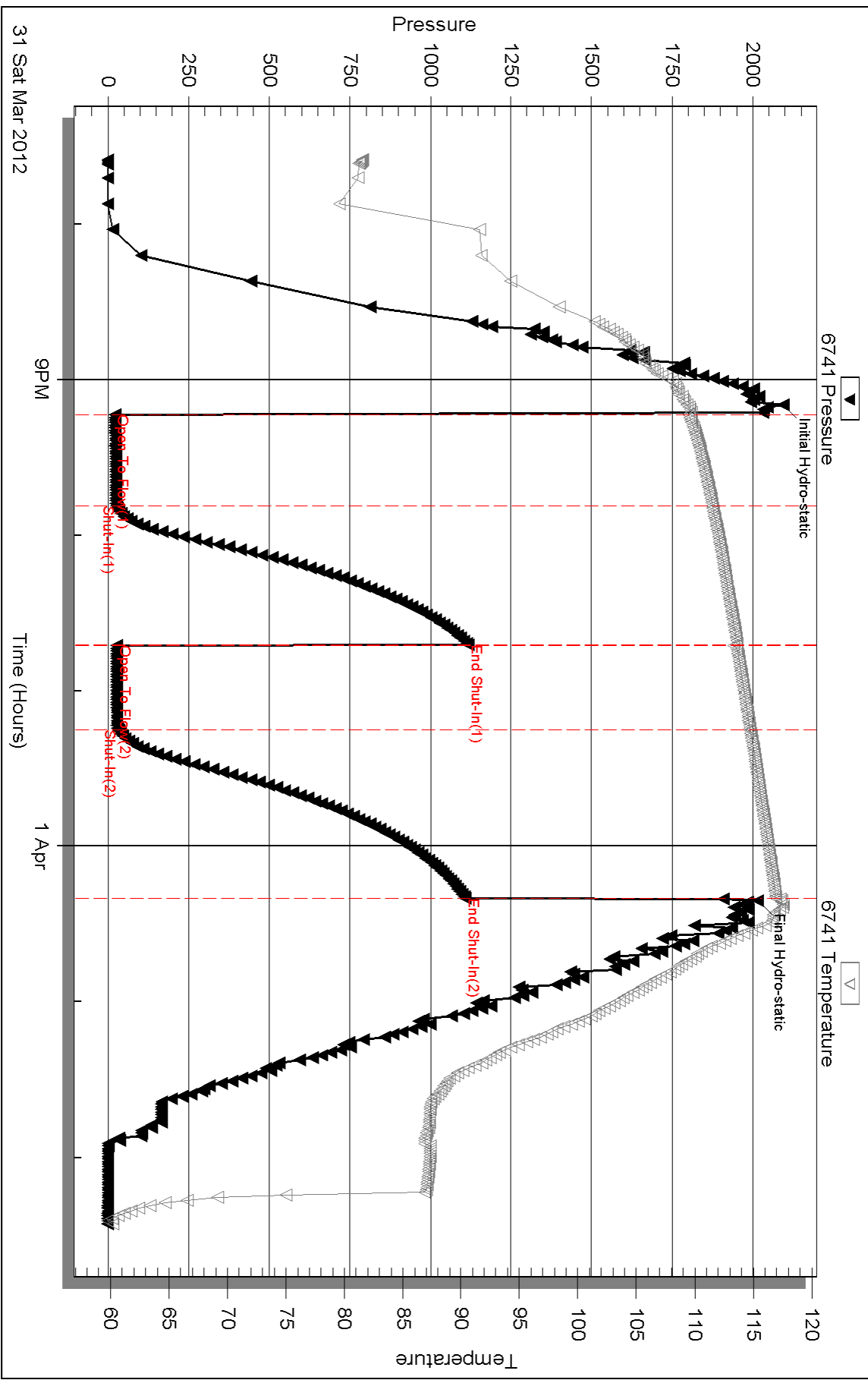
Inside

Murfin Drilling Co. Inc.

Turtle Creek #1-30

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45595

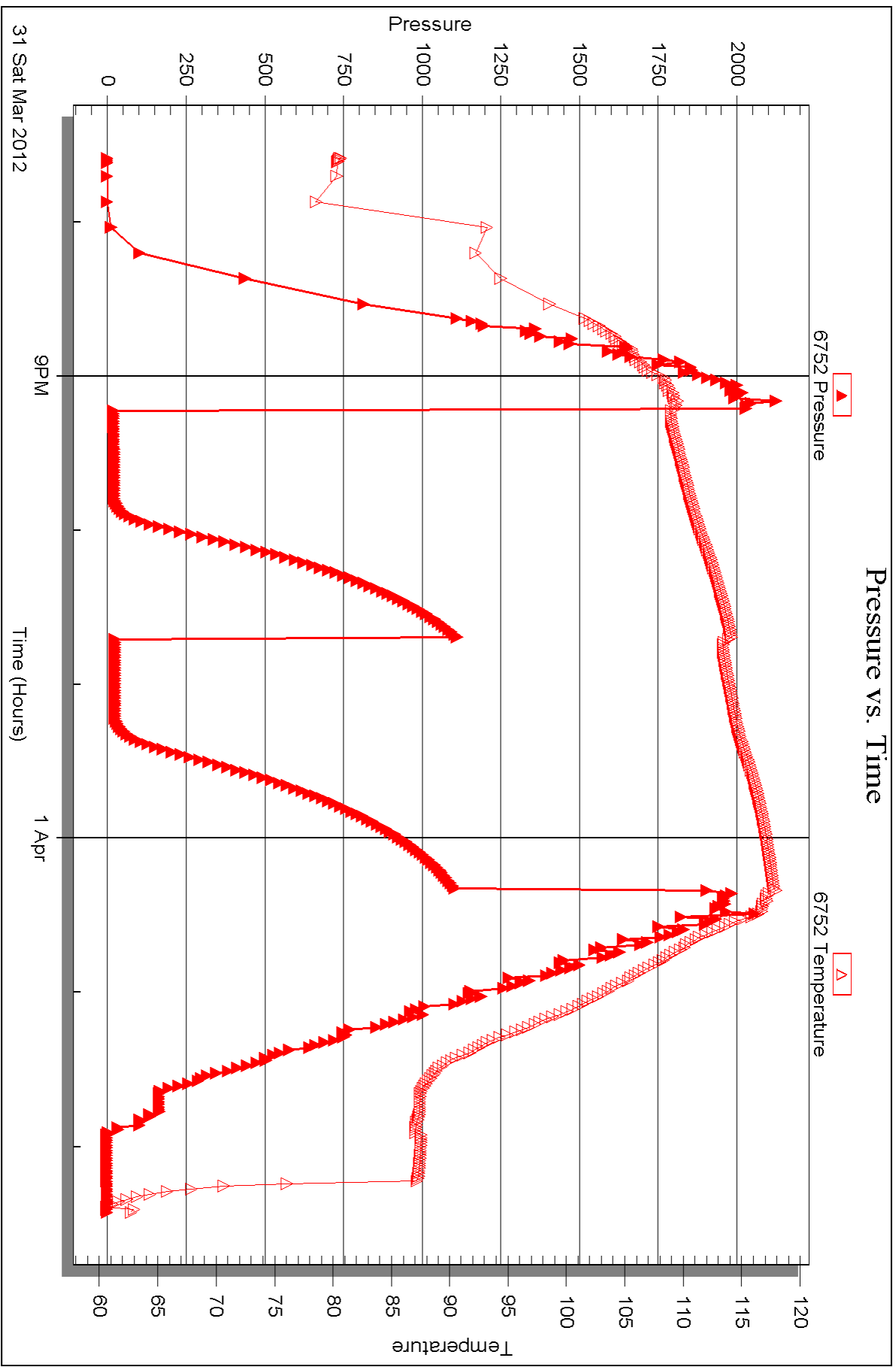
Printed: 2012.04.05 @ 14:10:37

Serial #: 6752

Outside Murfin Drilling Co. Inc.

Turtle Creek #1-30

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 45595

Printed: 2012.04.05 @ 14:10:37



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water
Ste. 300
Wichita KS 67202

ATTN: Robert Hendrix

Turtle Creek #1-30

30-5s-30w Decatur,KS

Start Date: 2012.04.02 @ 01:25:00

End Date: 2012.04.02 @ 09:18:30

Job Ticket #: 45596 DST #: 5

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

Printed: 2012.04.05 @ 14:09:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

30-5s-30w Decatur, KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45596 **DST#: 5**

Test Start: 2012.04.02 @ 01:25:00

GENERAL INFORMATION:

Formation: **Verdign's**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:53:30
 Time Test Ended: 09:18:30
 Interval: **4368.00 ft (KB) To 4400.00 ft (KB) (TVD)**
 Total Depth: 4400.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreuzer Jr.
 Unit No: 61
 Reference Elevations: 2946.00 ft (KB)
 2941.00 ft (CF)
 KB to GR/CF: 5.00 ft

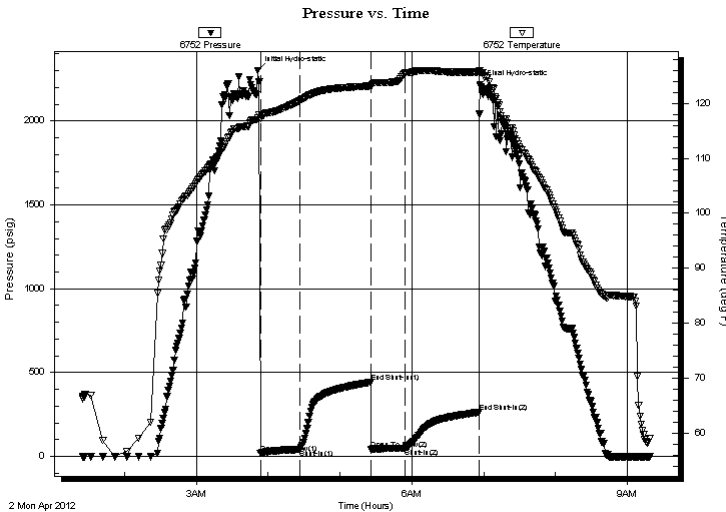
Serial #: 6752

Inside

Press @ Run Depth: 49.57 psig @ 4373.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.02 End Date: 2012.04.02 Last Calib.: 2012.04.02
 Start Time: 01:25:05 End Time: 09:18:29 Time On Btm: 2012.04.02 @ 03:51:30
 Time Off Btm: 2012.04.02 @ 06:57:00

TEST COMMENT: IF: Weak blow, Built to 1/4 in. over 30 mins.
 IS: No blow back over 60 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	2301.86	117.28	Initial Hydro-static
2	19.18	117.31	Open To Flow (1)
35	43.14	120.53	Shut-In(1)
94	442.42	123.18	End Shut-In(1)
95	44.46	123.14	Open To Flow (2)
123	49.57	125.51	Shut-In(2)
185	262.86	125.73	End Shut-In(2)
186	2215.95	125.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	mud-strong oil smell	0.31

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45596 **DST#: 5**

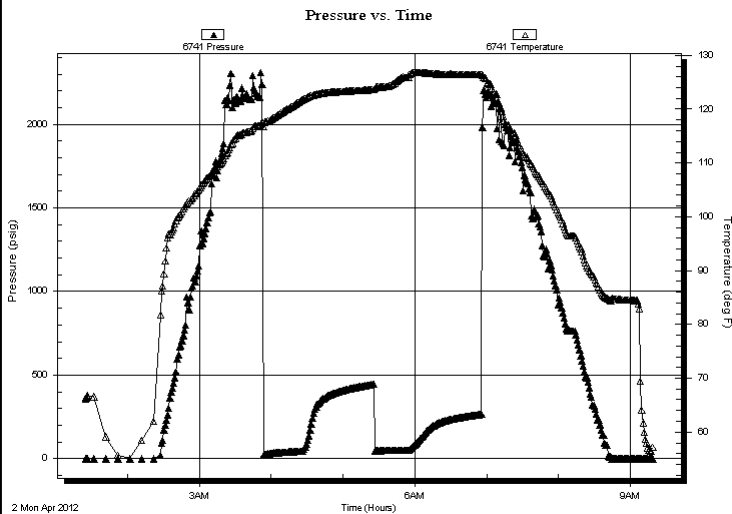
Test Start: 2012.04.02 @ 01:25:00

GENERAL INFORMATION:

Formation: **Verdign's**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:53:30
 Tester: Chuck Kreuzer Jr.
 Time Test Ended: 09:18:30
 Unit No: 61
 Interval: **4368.00 ft (KB) To 4400.00 ft (KB) (TVD)**
 Reference Elevations: 2946.00 ft (KB)
 Total Depth: 4400.00 ft (KB) (TVD)
 2941.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 6741 Outside
 Press @ Run Depth: psig @ 4373.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.02 End Date: 2012.04.02 Last Calib.: 2012.04.02
 Start Time: 01:25:05 End Time: 09:18:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak blow, Built to 1/4 in. over 30 mins.
 IS: No blow back over 60 mins.
 FF: No blow over 30 mins.
 FS: No blow back over 60 mins.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	mud-strong oil smell	0.31

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45596

DST#: 5

Test Start: 2012.04.02 @ 01:25:00

Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 bbl	Tool Weight: 2600.00 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: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 59.45 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4368.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	55.00 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			4350.00	
Hydraulic tool	5.00			4355.00	
Safety Joint	3.00			4358.00	
Packer	5.00			4363.00	23.00 Bottom Of Top Packer
Packer	5.00			4368.00	
Stubb	1.00			4369.00	
Perforations	4.00			4373.00	
Recorder	0.00	6752	Inside	4373.00	
Recorder	0.00	6741	Outside	4373.00	
Perforations	24.00			4397.00	
Bullnose	3.00			4400.00	32.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

30-5s-30w Decatur,KS

250 N. Water
Ste. 300
Wichita KS 67202
ATTN: Robert Hendrix

Turtle Creek #1-30

Job Ticket: 45596 **DST#: 5**
Test Start: 2012.04.02 @ 01:25:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

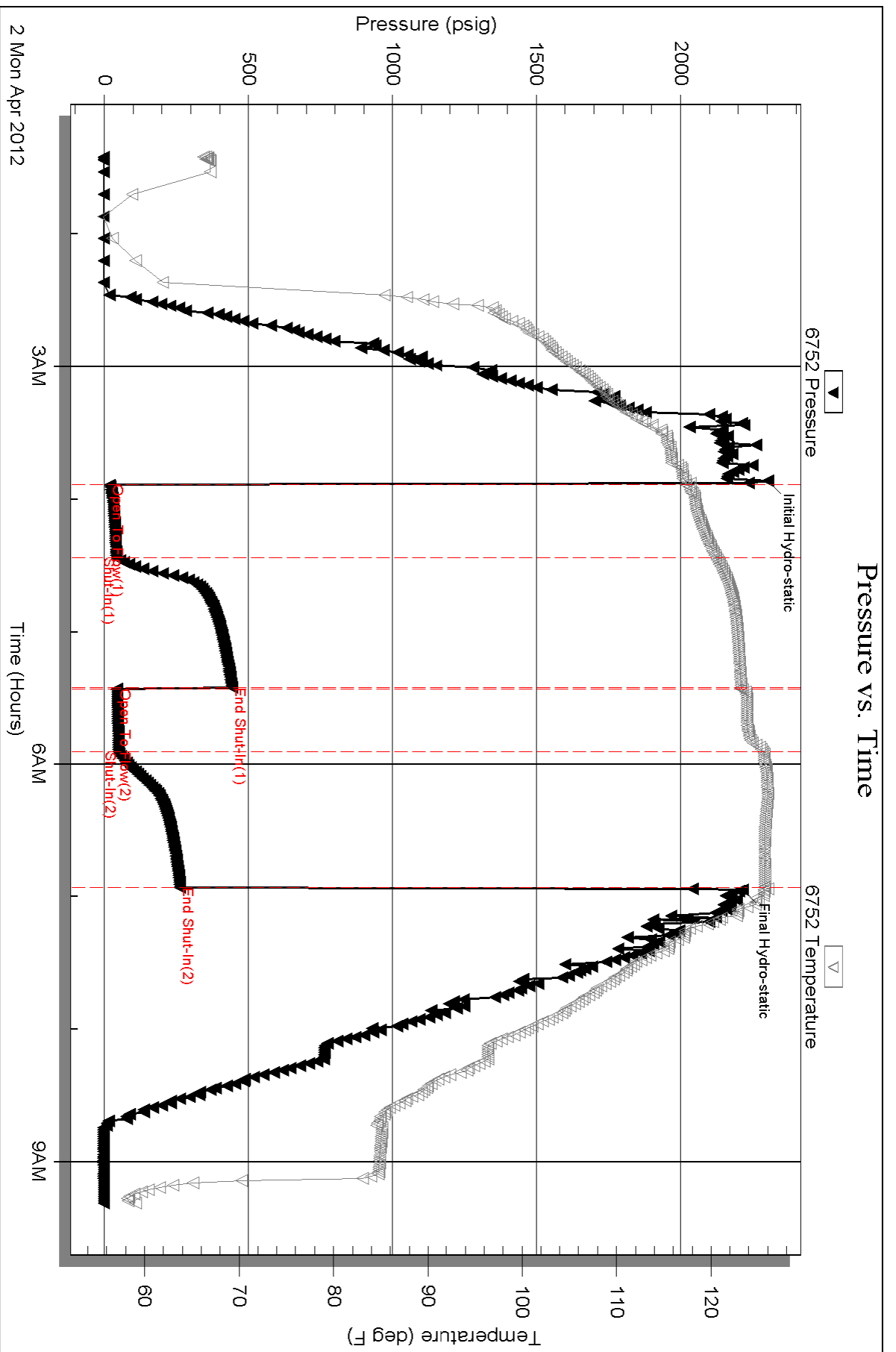
Length ft	Description	Volume bbl
63.00	mud-strong oil smell	0.310

Total Length: 63.00 ft Total Volume: 0.310 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

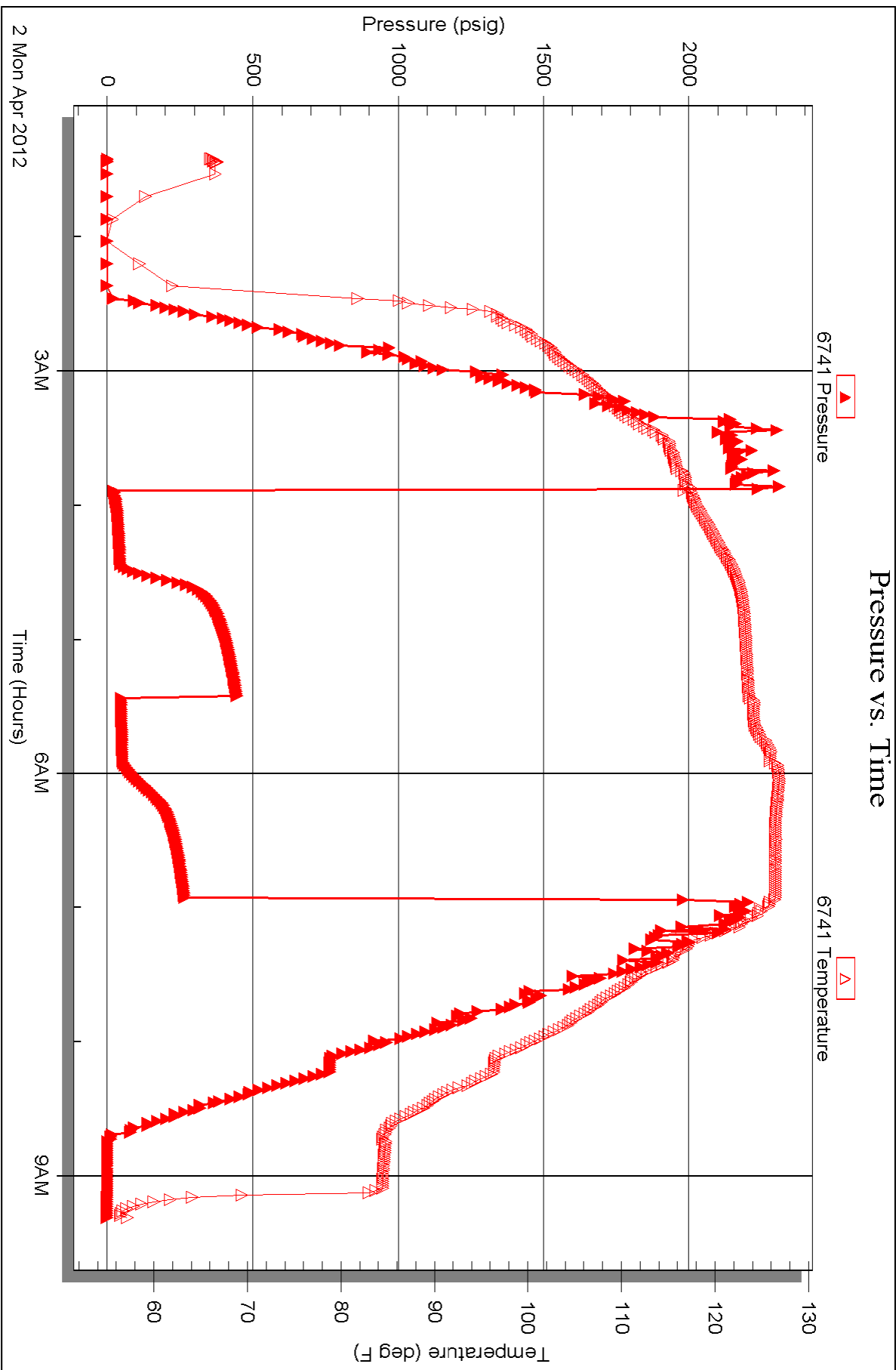


Serial #: 6741

Outside Murfin Drilling Co. Inc.

Turtle Creek #1-30

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 05 2012
BY: _____

318-

Test Ticket

NO. 45592

Well Name & No. Turtle creek #1-30 Test No. 1 Date 3-29-12
 Company MurFin Drilling Co. Inc. Elevation 2946 KB 2941 GL
 Address 250 N. water ste. 300 Wichita Ks. 67202
 Co. Rep/Geo. Robert Andrex Rig MurFin #8
 Location: Sec. 30 Twp. 5 Rge. 30 Co. Decatur State Ks

Interval Tested 3911 3995 Zone Tested Top-LKC-A
 Anchor Length 84 Drill Pipe Run 3722 Mud Wt. 8.9
 Top Packer Depth 3906 Drill Collars Run 188 Vis 60
 Bottom Packer Depth 3911 Wt. Pipe Run 0- WL 6.0
 Total Depth 3995 Chlorides 1,000 ppm System LCM 10#

Blow Description IF: Weak blow, Built to surface over 30 mins
ISI: No blow
FF: Weak blow Built to surface over 30 mins.
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>220</u>	<u>Mud</u>			<u>100</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 <u>220</u>	BHT <u>115</u>	Gravity	API RW	@	°F Chlorides	ppm
(A) Initial Hydrostatic <u>1957</u>	<input checked="" type="checkbox"/> Test <u>1125</u>	T-On Location <u>11:13</u>				
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:00</u>				
(C) First Final Flow <u>88</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:19</u>				
(D) Initial Shut-In <u>1180</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>5:30</u>				
(E) Second Initial Flow <u>92</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>19:20</u>				
(F) Second Final Flow <u>119</u>	<input checked="" type="checkbox"/> Mileage <u>30x2=60RT 84'</u>	Comments				
(G) Final Shut-In <u>1173</u>	<input type="checkbox"/> Sampler					
(H) Final Hydrostatic <u>1915</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>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>1534</u>				
	<input type="checkbox"/> Accessibility	MP/DST Disc't				
	Sub Total <u>1534</u>					

Approved By _____

Our Representative Chubby [Signature]

Trilobite Testing Inc. shall not be liable for damaged or lost 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

RECEIVED
APR 05 2012
BY: _____

Test Ticket

NO. 45593

Well Name & No. Turtle Creek #1-30 Test No. 2 Date 03-30-2012
 Company Murfin Drilling Co Inc. Elevation 2946 KB 2941 GL
 Address 250 N. Water ste. 300 Wichita Ks. 67202
 Co. Rep / Geo. Robert Hendrix Rig MurFin #8
 Location: Sec. 30 Twp. 5 Rge. 30 Co. Decatur State Ks.

Interval Tested 4013 4036 Zone Tested LKC - E - F
 Anchor Length 23 Drill Pipe Run 3819 Mud Wt. 8.9
 Top Packer Depth 4008 Drill Collars Run 186 Vis 60
 Bottom Packer Depth 4013 Wt. Pipe Run - 0' WL 6.0
 Total Depth 4036 Chlorides 1,000 ppm System LCM 10 #

Blow Description IF: Weak blow Died in 17 mins.
FSI: No blow back over 60 mins.
FF: No blow over 30 mins.
FSI: No blow back over 60 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud with oil specs</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 116. Gravity API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic	<u>2018</u>	<input checked="" type="checkbox"/> Test	<u>1225</u>	T-On Location	<u>3:55</u>
(B) First Initial Flow	<u>17</u>	<input type="checkbox"/> Jars		T-Started	<u>4:30</u>
(C) First Final Flow	<u>18</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>6:30</u>
(D) Initial Shut-In	<u>47</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>9:35</u>
(E) Second Initial Flow	<u>18</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>11:26</u>
(F) Second Final Flow	<u>38</u>	<input checked="" type="checkbox"/> Mileage	<u>30x2 = 60x1.40 84</u>	Comments	
(G) Final Shut-In	<u>39</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1046</u>	<input type="checkbox"/> Straddle			

<input type="checkbox"/> Ruined Shale Packer	
<input type="checkbox"/> Ruined Packer	
<input type="checkbox"/> Extra Copies	
Sub Total	<u>0</u>
Total	<u>1384</u>
MP/DST Disc't	
Sub Total	<u>1384</u>

Approved By _____ Our Representative Chad [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

RECEIVED
APR 05 2012
BY: _____

Test Ticket

NO. 45594

Well Name & No. Turtle Creek #1-30 Test No. 3 Date 3-31-2012
 Company Murfin Drilling Co. Inc. Elevation 2946 KB 2941 GL
 Address 250 N. Water Ste. 300 Wichita Ks. 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #8
 Location: Sec. 30 Twp. 5 Rge. 30 Co. Decatur State Ks.

Interval Tested 4059 4125 Zone Tested LKC-H-J
 Anchor Length 86 Drill Pipe Run 3872 Mud Wt. 9.0
 Top Packer Depth 4054 Drill Collars Run 186 Vis 54
 Bottom Packer Depth 4059 Wt. Pipe Run -0- WL 6.0
 Total Depth 4125 Chlorides 1,000 ppm System LCM 10#

Blow Description IF: W&K surface blow, over 30 mins.
ISI: No blow back over 60 mins.
FF: No blow over 30 mins.
FSI: No blow back over 60 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>83</u>	<u>mud</u>				<u>100%</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 83 BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2055 Test 1225 T-On Location 1:00
 (B) First Initial Flow 19 Jars T-Started 1:50
 (C) First Final Flow 42 Safety Joint 75' T-Open 4:06
 (D) Initial Shut-In 1252 Circ Sub T-Pulled 7:20
 (E) Second Initial Flow 46 Hourly Standby T-Out 9:29
 (F) Second Final Flow 58 Mileage 30x2 = 60x1.40 = 84 Comments _____
 (G) Final Shut-In 1228 Sampler _____
 (H) Final Hydrostatic 2011 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1384
 Total 1384
 MP/DST Disc't _____

Approved By _____ Our Representative Chuck [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

RECEIVED
APR 05 2012

Test Ticket

NO. 45595

BY: _____

Well Name & No. Turtle Creek #1-30 Test No. PH Date 3-31-2012
 Company Murfin Drilling Co Inc. Elevation 2946 KB 2941 GL
 Address 250 N. Water Ste. 300 Wichita Ks. 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #8
 Location: Sec. 30 Twp. 5 Rge. 30 Co. Decatur State Ks.

Interval Tested 4120 4178 Zone Tested LRC-K-L
 Anchor Length 58 Drill Pipe Run 3912 Mud Wt. 9.0
 Top Packer Depth 4115 Drill Collars Run 186 Vis 52
 Bottom Packer Depth 4120 Wt. Pipe Run -0- WL 5.2
 Total Depth 4178 Chlorides 1,000 ppm System LCM 10#

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

Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 4 BHT 116.9 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>2094</u>	<input checked="" type="checkbox"/> Test	<u>1225</u>	T-On Location	<u>18:55</u>
(B) First Initial Flow	<u>22</u>	<input type="checkbox"/> Jars		T-Started	<u>19:35</u>
(C) First Final Flow	<u>26</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>20:13</u>
(D) Initial Shut-In	<u>1119</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>00:10</u>
(E) Second Initial Flow	<u>27</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>1:26</u>
(F) Second Final Flow	<u>32</u>	<input checked="" type="checkbox"/> Mileage	<u>30x2 = 60 RT 84</u>	Comments	
(G) Final Shut-In	<u>1109</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2016</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>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>1384</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1384</u>		

Approved By _____ Our Representative Chad [Signature]

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P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 05 2012

Test Ticket

NO. 45596

Well Name & No. Turtle creek #1-30 Test No. 5 Date 4-1-2012
 Company Murfin Drilling Co. Elevation 2946 KB 2941 GL
 Address 250 N. Water Ste. 300 Wichita Ks. 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #8
 Location: Sec. 30 Twp. 5 Rge. 30 Co. Decatur State KS

Interval Tested 4368 4400 Zone Tested Verdign's
 Anchor Length 32 Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 4363 Drill Collars Run 186 Vis 56
 Bottom Packer Depth 4368 Wt. Pipe Run -0- WL 5.6
 Total Depth 4400 Chlorides 1400 ppm System LCM 8#

Blow Description IF: Weak surface blow, Built + to 1/4 in. over 30 mins
ISF: No blow back over 60 mins.
FF: No blow over 30 mins.
FSI: No blow back over 60 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>mud - strong smel of oil</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 63 BHT 125.7 Gravelly _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2302 Test 1225' T-On Location 1:05
 (B) First Initial Flow 19 Jars _____ T-Started 1:25
 (C) First Final Flow 43 Safety Joint 75' T-Open 5:26
 (D) Initial Shut-In 442 Circ Sub _____ T-Pulled 6:55
 (E) Second Initial Flow 44 Hourly Standby _____ T-Out 9:18
 (F) Second Final Flow 50 Mileage 30x2=60x1.40x2 Comments Load tools at 10:00
 (G) Final Shut-In 263 168' on 4-2-2012
 (H) Final Hydrostatic 2216 Sampler _____
 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open 30 Extra Packer _____
 Initial Shut-In 60 Extra Recorder _____
 Final Flow 30 Day Standby NK 24 3/4 hrs Sub Total _____
 Final Shut-In 60 Accessibility _____ Total _____
 Sub Total 1384 MP/DST Disc't _____

Approved By _____ Our Representative Chad [Signature]
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