



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Hickert #1-29

29-5s-29w-Decatur,KS

Start Date: 2013.05.08 @ 01:20:00

End Date: 2013.05.08 @ 10:07:30

Job Ticket #: 50719 DST #: 1

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

Printed: 2013.05.16 @ 09:16:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50719

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 01:20:00

GENERAL INFORMATION:

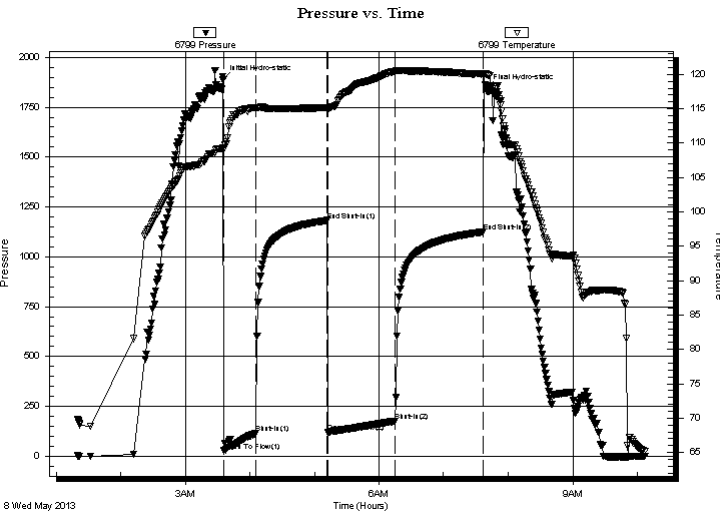
Formation: **Toronto - LKC "B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:35:45
 Time Test Ended: 10:07:30
 Interval: **3854.00 ft (KB) To 3934.00 ft (KB) (TVD)**
 Total Depth: 3934.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 43
 Reference Elevations: 2827.00 ft (KB)
 2817.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6799

Inside

Press @ Run Depth: 176.03 psig @ 3855.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.08 End Date: 2013.05.08 Last Calib.: 2013.05.08
 Start Time: 01:20:05 End Time: 10:07:30 Time On Btm: 2013.05.08 @ 03:35:15
 Time Off Btm: 2013.05.08 @ 07:39:30

TEST COMMENT: 30 - IF- 1/2" Blow built to 7 1/2"
 60 - IS- No Return
 60 - FF- BoB in 47 min.
 90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1889.08	109.34	Initial Hydro-static
1	26.34	109.11	Open To Flow (1)
31	114.03	115.12	Shut-In(1)
97	1182.42	115.15	End Shut-In(1)
98	118.97	114.84	Open To Flow (2)
160	176.03	120.46	Shut-In(2)
242	1125.33	120.06	End Shut-In(2)
245	1842.19	120.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 40M 60W	0.59
120.00	WM 60M 40W	0.66
134.00	OSWM 50M 50W (oil spots)	1.88

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50719

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 01:20:00

Tool Information

Drill Pipe:	Length: 3625.00 ft	Diameter: 3.80 inches	Volume: 50.85 bbl	Tool Weight: 2500.00 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: 232.00 ft	Diameter: 2.25 inches	Volume: 1.14 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 51.99 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3854.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3826.00	
Shut In Tool	5.00			3831.00	
Hydraulic tool	5.00			3836.00	
Jars	5.00			3841.00	
Safety Joint	3.00			3844.00	
Packer	5.00			3849.00	29.00 Bottom Of Top Packer
Packer	5.00			3854.00	
Stubb	1.00			3855.00	
Recorder	0.00	6799	Inside	3855.00	
Recorder	0.00	8648	Inside	3855.00	
Perforations	10.00			3865.00	
Change Over Sub	1.00			3866.00	
Drill Pipe	62.00			3928.00	
Change Over Sub	1.00			3929.00	
Bullnose	5.00			3934.00	80.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

29-5s-29w-Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50719

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 01:20:00

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:

13000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 40M 60W	0.590
120.00	WM 60M 40W	0.663
134.00	OSWM 50M 50W (oil spots)	1.880

Total Length: 374.00 ft Total Volume: 3.133 bbl

Num Fluid Samples: 0

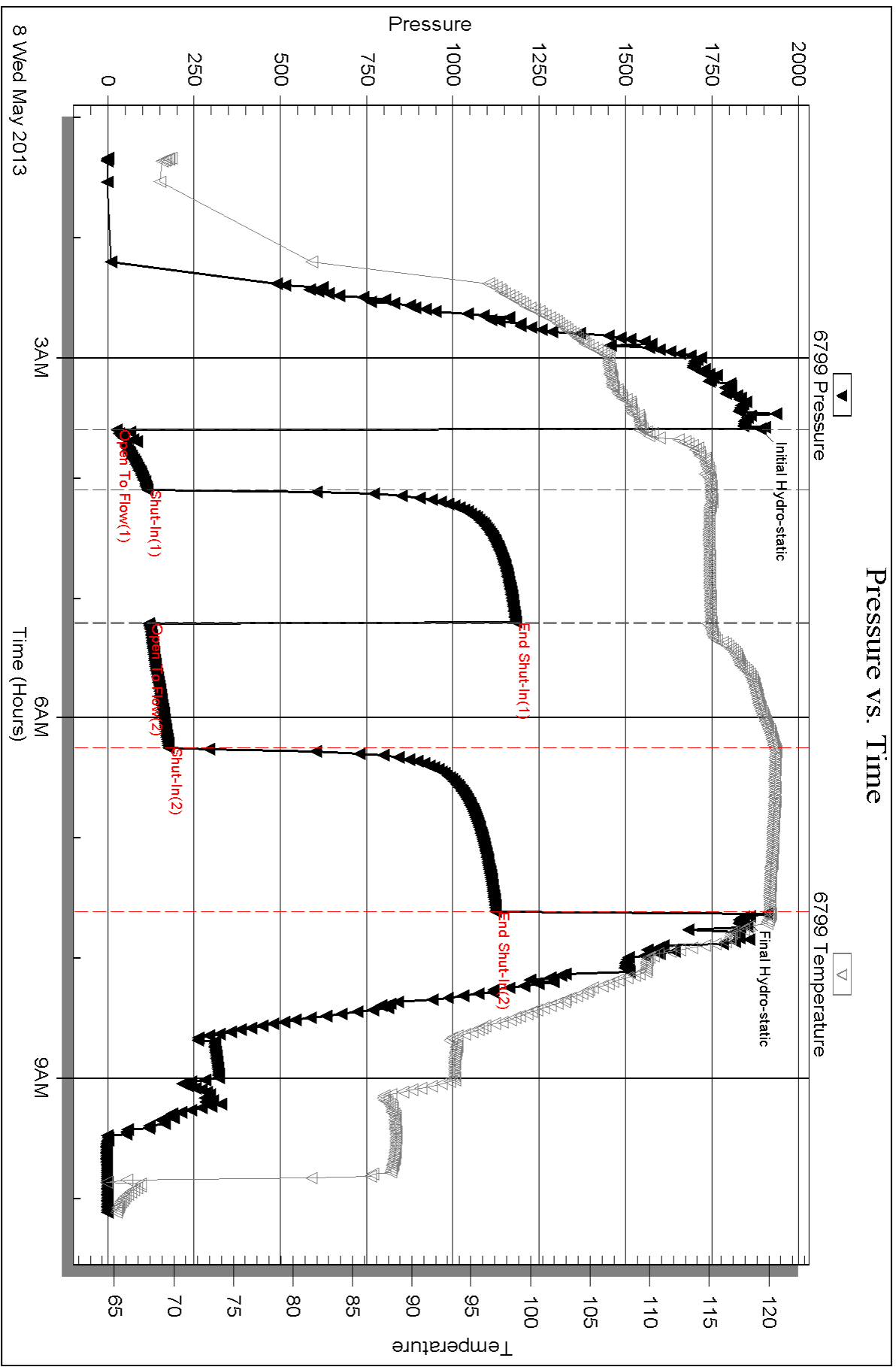
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .52@68 deg = 13000ppm



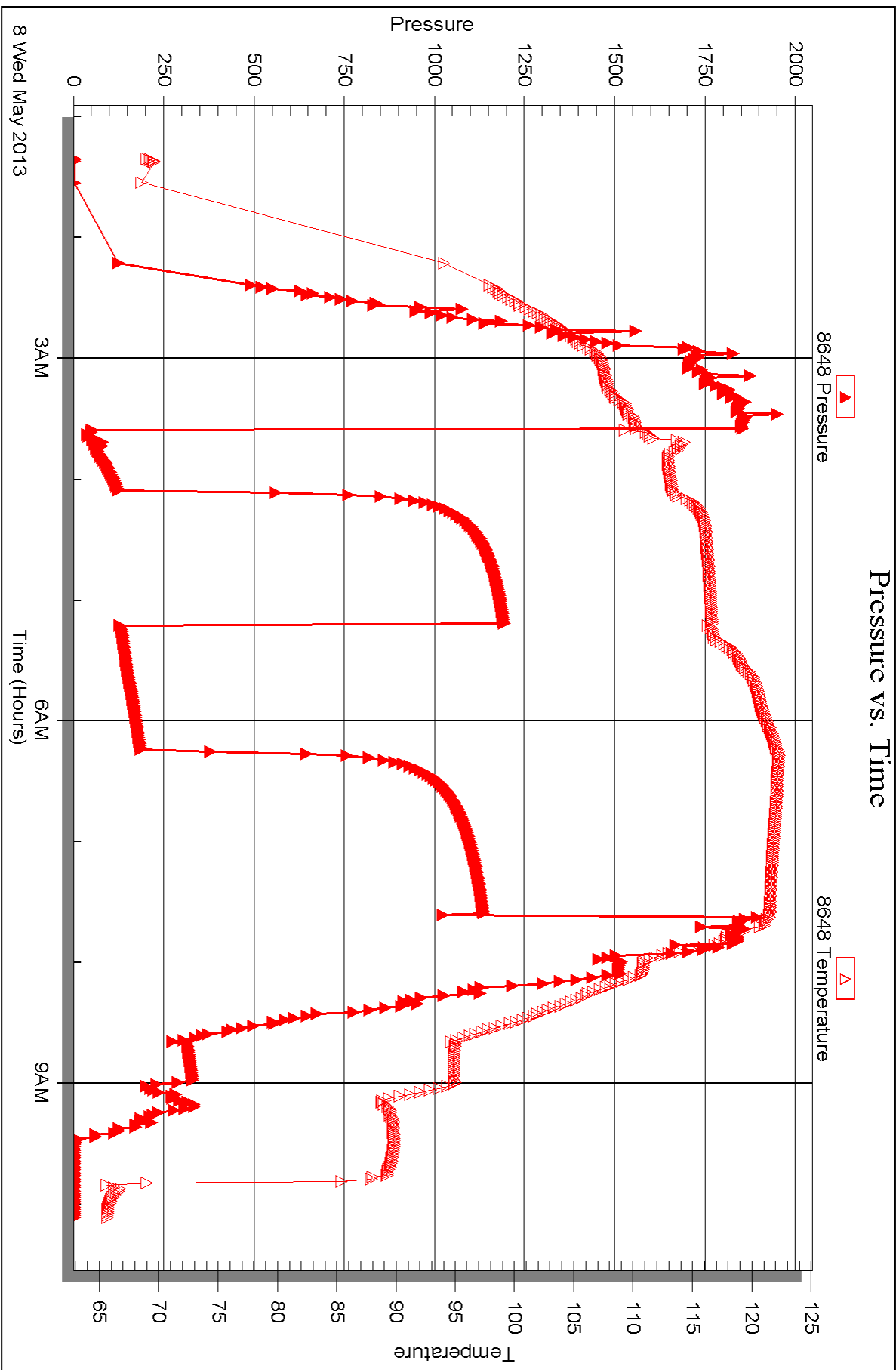
Serial #: 8648

Inside

Murfin Drilling Co., Inc.

Hickert #1-29

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

Hickert #1-29

29-5s-29w-Decatur,KS

Start Date: 2013.05.08 @ 19:30:00

End Date: 2013.05.09 @ 03:09:45

Job Ticket #: 50720 DST #: 2

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

Printed: 2013.05.16 @ 09:15:51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50720

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 19:30:00

GENERAL INFORMATION:

Formation: **LKC "E,F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:23:45

Time Test Ended: 03:09:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3954.00 ft (KB) To 3980.00 ft (KB) (TVD)

Reference Elevations: 2827.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6799

Inside

Press @ Run Depth: 45.52 psig @ 3955.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.08

End Date:

2013.05.09

Last Calib.:

2013.05.09

Start Time: 19:30:05

End Time:

03:09:44

Time On Btm:

2013.05.08 @ 21:22:45

Time Off Btm:

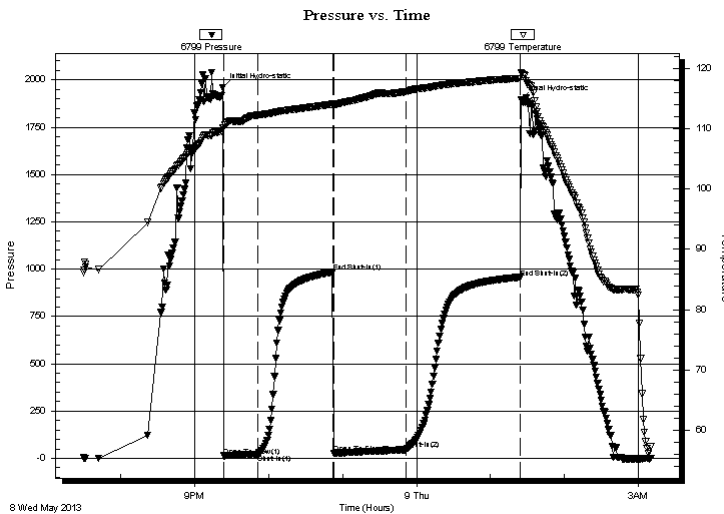
2013.05.09 @ 01:24:45

TEST COMMENT: 30 - IF- 1/4" Blow built to 2 1/4"

60 - IS- No Return

60 - FF- Blow started at 2 min. Built to 3"

90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1957.87	110.20	Initial Hydro-static
1	13.22	110.21	Open To Flow (1)
29	21.96	112.31	Shut-In(1)
89	984.42	114.13	End Shut-In(1)
90	27.22	114.02	Open To Flow (2)
149	45.52	116.21	Shut-In(2)
241	955.76	118.43	End Shut-In(2)
242	1896.06	119.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO 50M 50o	0.30
20.00	MCO 30M 70o	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50720

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 19:30:00

Tool Information

Drill Pipe:	Length: 3726.00 ft	Diameter: 3.80 inches	Volume: 52.27 bbl	Tool Weight:	2300.00 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: 232.00 ft	Diameter: 2.25 inches	Volume: 1.14 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 53.41 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	3954.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	50.00 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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Change Over Sub	1.00			3931.00	
Shut In Tool	5.00			3936.00	
Hydraulic tool	5.00			3941.00	
Safety Joint	3.00			3944.00	
Packer	5.00			3949.00	24.00 Bottom Of Top Packer
Packer	5.00			3954.00	
Stubb	1.00			3955.00	
Recorder	0.00	6799	Inside	3955.00	
Recorder	0.00	8648	Inside	3955.00	
Perforations	20.00			3975.00	
Bullnose	5.00			3980.00	26.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

29-5s-29w-Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50720

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.05.08 @ 19:30:00

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: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCO 50M 50o	0.295
20.00	MCO 30M 70o	0.098

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

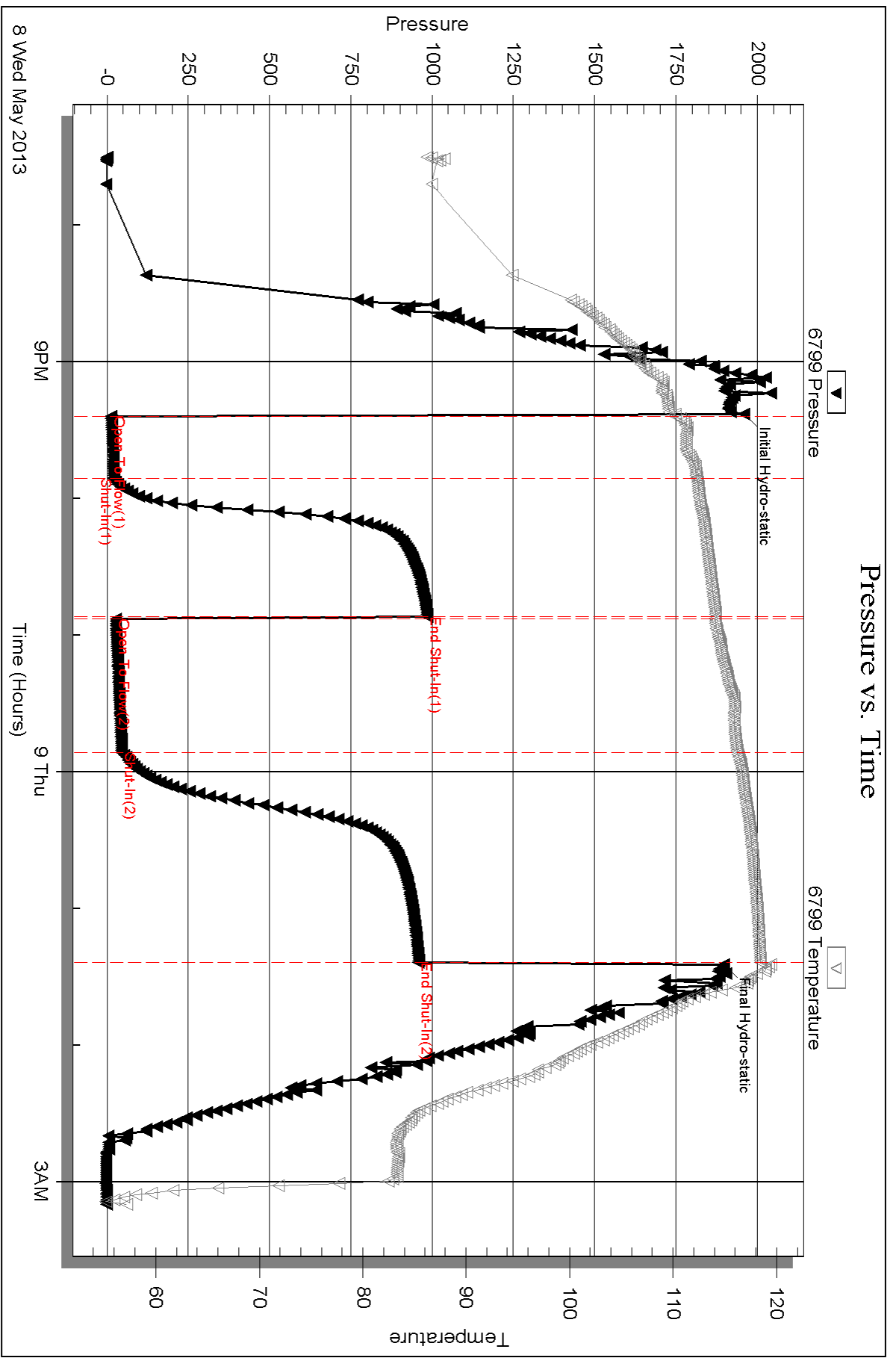
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



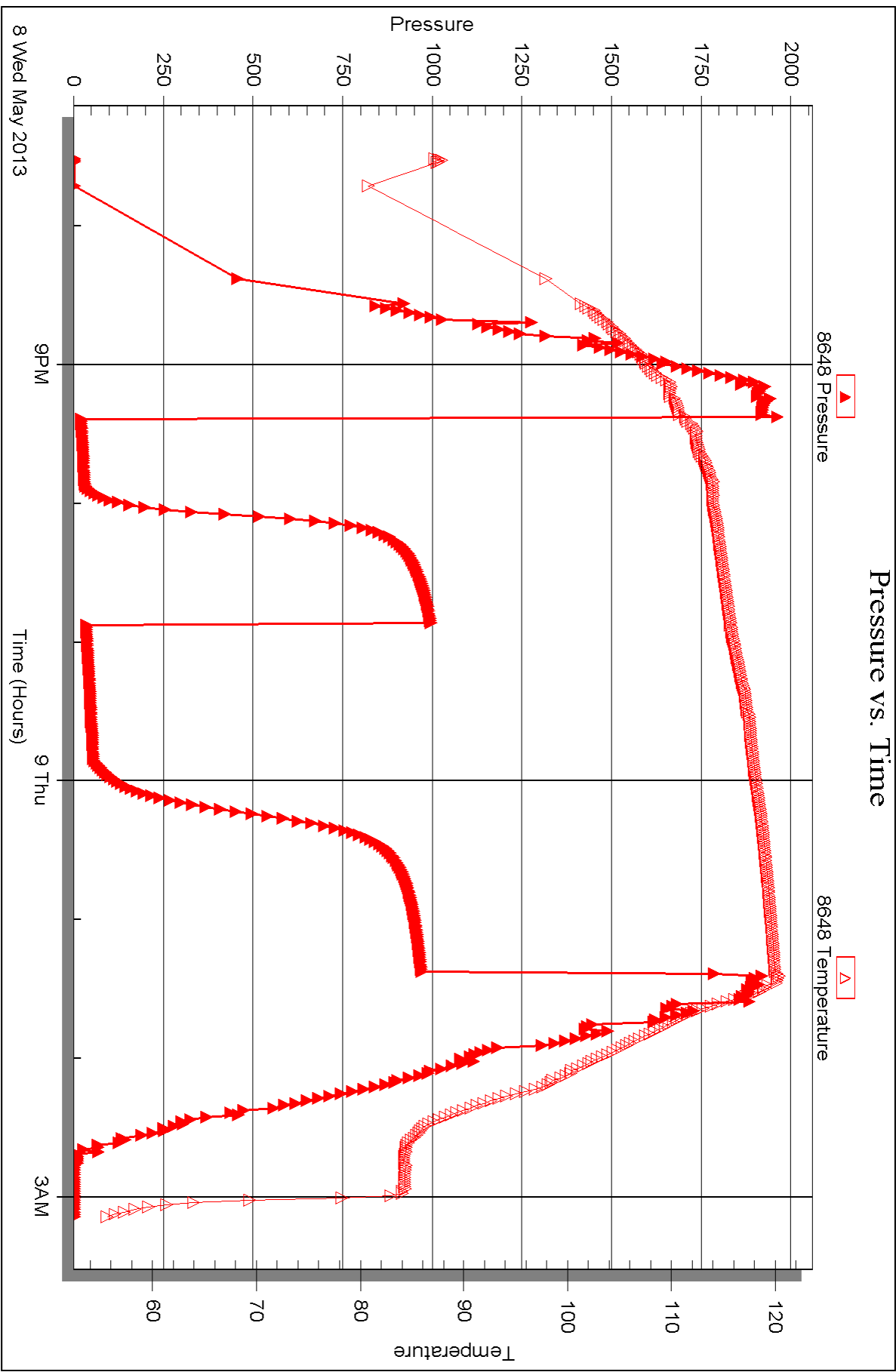
Serial #: 8648

Inside

Murfin Drilling Co., Inc.

Hickert #1-29

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

Hickert #1-29

29-5s-29w-Decatur,KS

Start Date: 2013.05.09 @ 19:50:00

End Date: 2013.05.10 @ 02:26:00

Job Ticket #: 50721 DST #: 3

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

Printed: 2013.05.16 @ 09:15:07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50721

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.05.09 @ 19:50:00

GENERAL INFORMATION:

Formation: **LKC "J-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:45:30

Time Test Ended: 02:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 4024.00 ft (KB) To 4086.00 ft (KB) (TVD)

Reference Elevations: 2827.00 ft (KB)

Total Depth: 4086.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8648

Inside

Press @ Run Depth: 26.44 psig @ 4025.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.09

End Date:

2013.05.10

Last Calib.:

2013.05.10

Start Time:

19:50:05

End Time:

02:25:59

Time On Btm:

2013.05.09 @ 21:44:45

Time Off Btm:

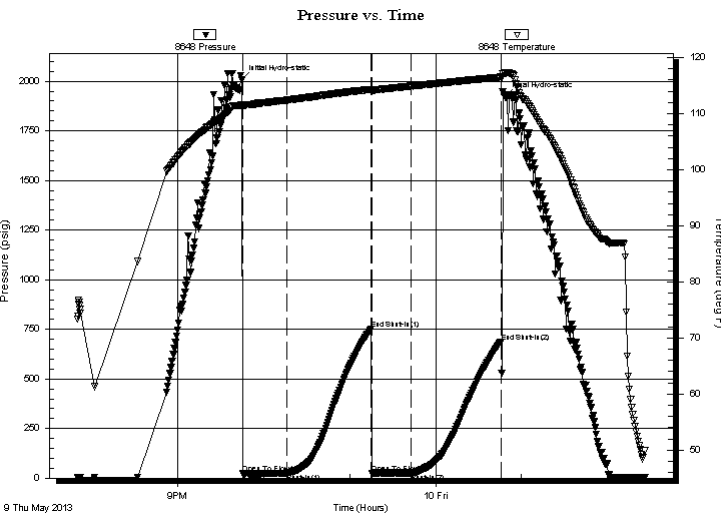
2013.05.10 @ 00:48:15

TEST COMMENT: 30 - IF- 1/8" Blow built to 1/2"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2005.94	111.56	Initial Hydro-static
1	22.26	111.43	Open To Flow (1)
32	24.00	112.39	Shut-In(1)
90	751.80	114.31	End Shut-In(1)
91	25.51	114.09	Open To Flow (2)
118	26.44	114.89	Shut-In(2)
181	686.42	116.49	End Shut-In(2)
184	1923.37	117.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

29-5s-29w-Decatur, KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50721

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.05.09 @ 19:50:00

Tool Information

Drill Pipe:	Length: 3788.00 ft	Diameter: 3.80 inches	Volume: 53.14 bbl	Tool Weight: 2500.00 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: 232.00 ft	Diameter: 2.25 inches	Volume: 1.14 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 54.28 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4024.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4001.00	
Shut In Tool	5.00			4006.00	
Hydraulic tool	5.00			4011.00	
Safety Joint	3.00			4014.00	
Packer	5.00			4019.00	24.00 Bottom Of Top Packer
Packer	5.00			4024.00	
Stubb	1.00			4025.00	
Recorder	0.00	6799	Inside	4025.00	
Recorder	0.00	8648	Inside	4025.00	
Perforations	22.00			4047.00	
Change Over Sub	1.00			4048.00	
Drill Pipe	32.00			4080.00	
Change Over Sub	1.00			4081.00	
Bullnose	5.00			4086.00	62.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

29-5s-29w-Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Hickert #1-29

Job Ticket: 50721

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.05.09 @ 19:50:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100M (oil spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

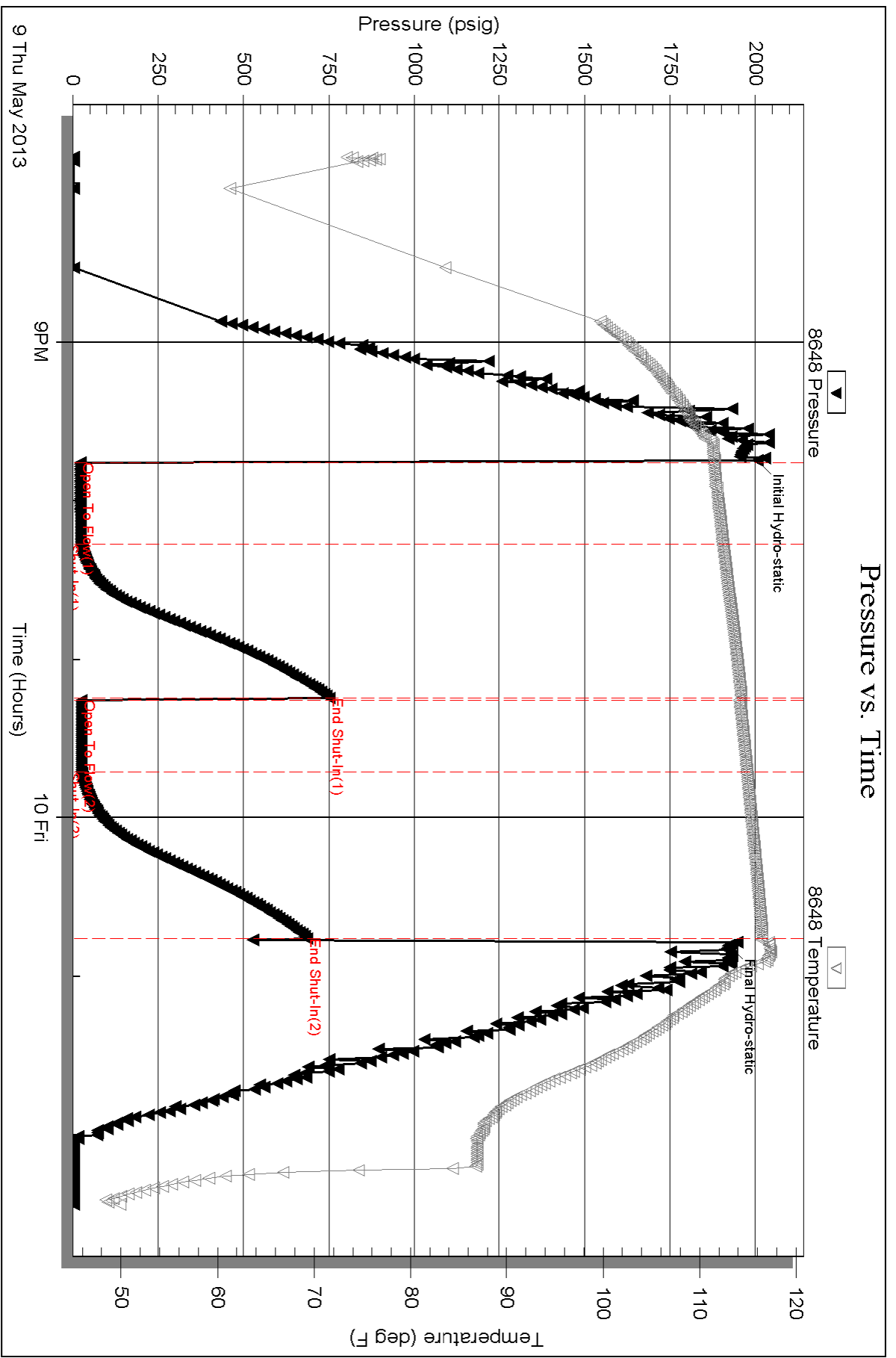
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



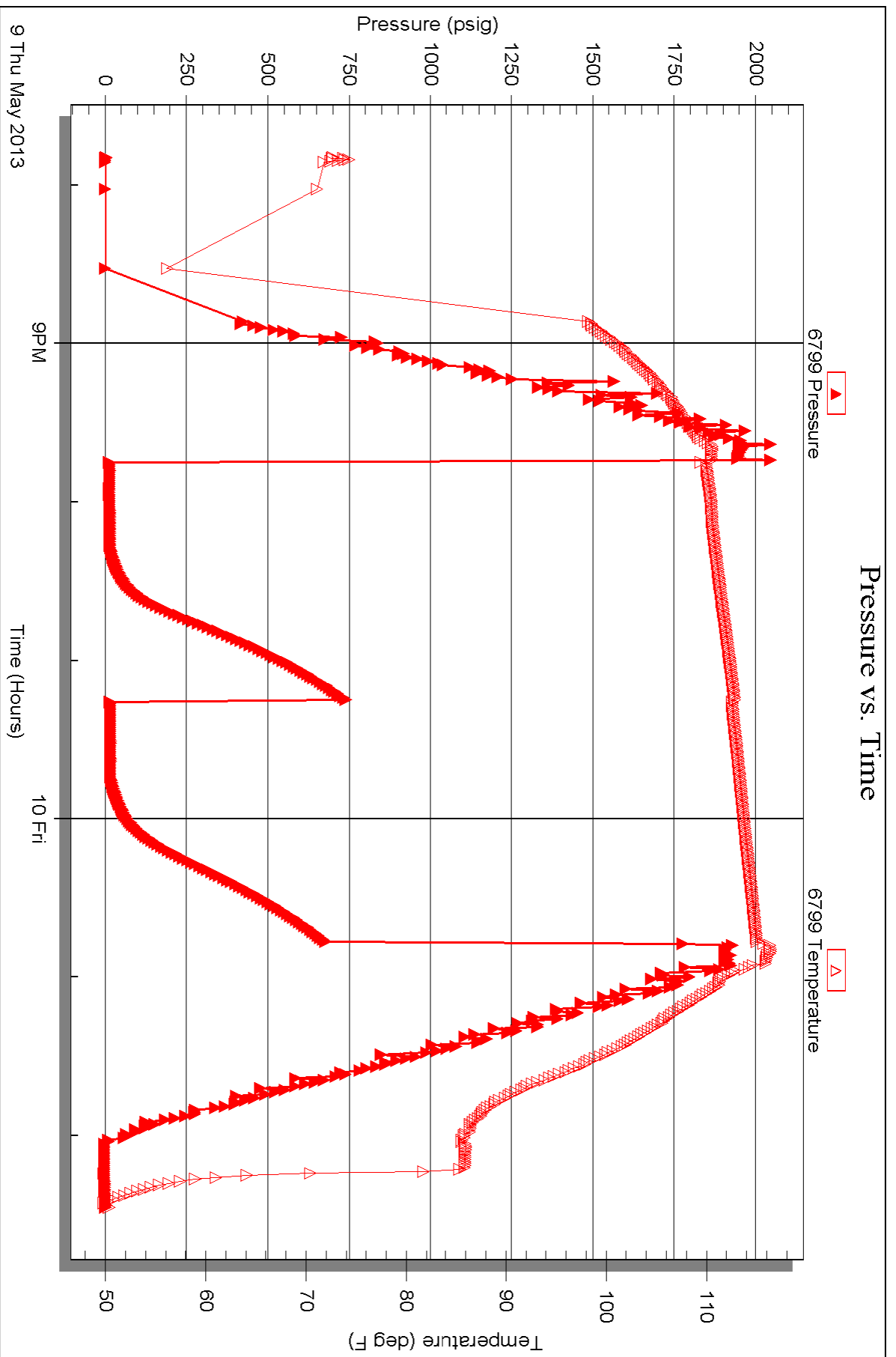
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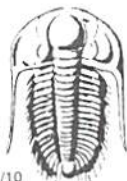
Inside

Murfin Drilling Co., Inc.

Hickert #1-29

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50719

Well Name & No. Hickert #1-29 Test No. 1 Date 5-8-13
 Company Murfin Drilling Co., Inc. Elevation 2827 KB 2817 GL
 Address 2508 N Water STE#3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 29 Twp. 5S Rge. 29W Co. Decatur State KS

Interval Tested 3854-3934 Zone Tested Toronto - LKC "B"
 Anchor Length 80 Drill Pipe Run 3625' Mud Wt. 8.9
 Top Packer Depth 3850 Drill Collars Run 232' Vis 61
 Bottom Packer Depth 3854 Wt. Pipe Run 0 WL 56
 Total Depth 3934 Chlorides 1,400 ppm System LCM 5#

Blow Description IF - 1/2" Blow built to 7 1/2"
ISI - NO Return
FF - BOB in 47 min.
FSI - NO Return

Rec	Feet of	%gas	spots	%oil	%water	%mud
134	OSWM			50	50	
120	LM			40	60	
120	MW			60	40	

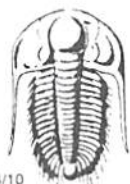
Rec Total 374 BHT 120 Gravity — API RW .52 @ 68 °F Chlorides 13,000 ppm

(A) Initial Hydrostatic	<u>1889</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>12:15 AM</u>
(B) First Initial Flow	<u>26</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1:20 AM</u>
(C) First Final Flow	<u>114</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>3:35 AM</u>
(D) Initial Shut-In	<u>1182</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NIC</u>	T-Pulled	<u>7:35 AM</u>
(E) Second Initial Flow	<u>118</u>	<input checked="" type="checkbox"/> Hourly Standby	<u>NIC</u>	T-Out	<u>10:20 AM</u>
(F) Second Final Flow	<u>176</u>	<input checked="" type="checkbox"/> Mileage	<u>44 RT</u> 68.20	Comments	
(G) Final Shut-In	<u>1125</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1842</u>	<input type="checkbox"/> Straddle			

Initial Open	<u>30</u>	<input type="checkbox"/> Ruined Shale Packer	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Ruined Packer	
Final Flow	<u>60</u>	<input type="checkbox"/> Extra Packer	
Final Shut-In	<u>90</u>	<input type="checkbox"/> Extra Recorder	
		<input type="checkbox"/> Extra Copies	
		Sub Total	<u>0</u>
		Total	<u>1543.20</u>
		MP/DST Disc't	
		Sub Total	<u>1543.20</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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50720

Well Name & No. Aickert #1-29 Test No. 2 Date 5-8-13
 Company Murphy Drilling Co., Inc Elevation 2827 KB 2817 GL
 Address 2500 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murphy #2
 Location: Sec. 29 Twp. 5S Rge. 29W Co. Decatur State KS

Interval Tested 3954-3980 Zone Tested LKC "E.F"
 Anchor Length 26' Drill Pipe Run 3726 Mud Wt. 8.9
 Top Packer Depth 3950 Drill Collars Run 232' Vis 71
 Bottom Packer Depth 3954 Wt. Pipe Run 0 WL 6.8
 Total Depth 3980 Chlorides 1,500 ppm System LCM 6#
 Blow Description IF - 1/4" Blow built to 2 1/4"
ISI - No Return
FF - Blow started at 2 min. Built to 3"
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>MCO</u>	<u>70</u>		<u>30</u>	
<u>60</u>	<u>MCO</u>	<u>50</u>		<u>50</u>	

Rec Total 80 BHT 118 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic	<u>1957</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>7:10 PM</u>
(B) First Initial Flow	<u>13</u>	<input type="checkbox"/> Jars		T-Started	<u>7:30 PM</u>
(C) First Final Flow	<u>21</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>9:23 PM</u>
(D) Initial Shut-In	<u>984</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>1:23 AM</u>
(E) Second Initial Flow	<u>27</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>3:15 AM</u>
(F) Second Final Flow	<u>45</u>	<input checked="" type="checkbox"/> Mileage	<u>44 RT</u> 68.20	Comments	
(G) Final Shut-In	<u>955</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1896</u>	<input type="checkbox"/> Straddle			
Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Shale Packer	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Ruined Packer	
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>1293.20</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1293.20</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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50721

Well Name & No. Hickert #1-29 Test No. 3 Date 5-9-13
 Company Murfin Drilling Co., Inc. Elevation 2827 KB 2817 GL
 Address 2500 N Water STE # 3055 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 29 Twp. 5S Rge. 29W Co. Decatur State KS

Interval Tested 4024-4086 Zone Tested LKC "J-K"
 Anchor Length 62' Drill Pipe Run 3788 Mud Wt. 9.1
 Top Packer Depth 4020 Drill Collars Run 232' Vis 61
 Bottom Packer Depth 4024 Wt. Pipe Run Ø WL 5.6
 Total Depth 4086 Chlorides 4500 ppm System LCM 5#

Blow Description IF - 1/8" Blow built to 1/2"
ISI - NO Return
FF - NO Blow
FBI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OSM</u>	<u>spots</u>		<u>1000</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic	<u>2005</u>
(B) First Initial Flow	<u>22</u>
(C) First Final Flow	<u>24</u>
(D) Initial Shut-In	<u>751</u>
(E) Second Initial Flow	<u>25</u>
(F) Second Final Flow	<u>26</u>
(G) Final Shut-In	<u>686</u>
(H) Final Hydrostatic	<u>1923</u>
Initial Open	<u>30</u>
Initial Shut-In	<u>60</u>
Final Flow	<u>30</u>
Final Shut-In	<u>60</u>

Test 1250
 Jars
 Safety Joint 75
 Circ Sub NIC
 Hourly Standby
 Mileage 44 RT 68.20
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby X1 1d 9.25h
 Accessibility
 Sub Total 1393.20

T-On Location 7:30 PM
 T-Started 7:50 PM
 T-Open 9:45 PM
 T-Pulled 12:45 AM
 T-Out 2:45 AM
 Comments Loaded
tools
12:00 PM 5-11-13
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 800
 Total 2193.20
 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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