



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Bob Stolze

Brown #1-30

30-4s-30w Decatur,KS

Start Date: 2013.09.11 @ 04:00:00

End Date: 2013.09.11 @ 11:10:30

Job Ticket #: 53528 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.16 @ 14:37:33



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N Water STE #300
 Wichita, KS 67202
 ATTN: Bob Stolzle

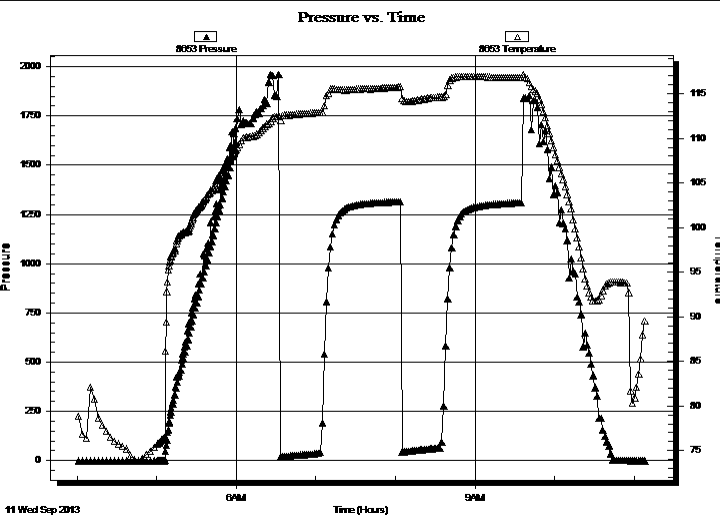
30-4s-30w Decatur, KS
Brown #1-30
 Job Ticket: 53528 **DST#: 1**
 Test Start: 2013.09.11 @ 04:00:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "A-B"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:35:00 Tester: Kevin Mack
 Time Test Ended: 11:10:30 Unit No: 66
 Interval: **3845.00 ft (KB) To 3930.00 ft (KB) (TVD)** Reference Elevations: 2846.00 ft (KB)
 Total Depth: 3930.00 ft (KB) (TVD) 2835.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8653 Outside
 Press @ Run Depth: psig @ 3846.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.11 End Date: 2013.09.11 Last Calib.: 2013.09.11
 Start Time: 04:01:00 End Time: 11:09:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" Blow built to 2"
 60 - IS- No Return
 30 - FF- Weak Surface Blow started at 15 min. Built to 1/2"
 60 - FS- No Return



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

Recovery		
Length (ft)	Description	Volume (bbl)
80.00	MW 20M 80W	0.39

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

30-4s-30w Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Brown #1-30

Job Ticket: 53528

DST#: 1

ATTN: Bob Stolzle

Test Start: 2013.09.11 @ 04:00:00

Tool Information

Drill Pipe:	Length: 3593.00 ft	Diameter: 3.80 inches	Volume: 50.40 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: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 51.55 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3845.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	113.00 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			3818.00	
Shut In Tool	5.00			3823.00	
Hydraulic tool	5.00			3828.00	
Jars	5.00			3833.00	
Safety Joint	3.00			3836.00	
Packer	5.00			3841.00	28.00 Bottom Of Top Packer
Packer	4.00			3845.00	
Stubb	1.00			3846.00	
Recorder	0.00	8653	Outside	3846.00	
Recorder	0.00	8874	Inside	3846.00	
Perforations	15.00			3861.00	
Change Over Sub	1.00			3862.00	
Drill Pipe	62.00			3924.00	
Change Over Sub	1.00			3925.00	
Bullnose	5.00			3930.00	85.00 Bottom Packers & Anchor

Total Tool Length: 113.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

30-4s-30w Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Brown #1-30

Job Ticket: 53528

DST#: 1

ATTN: Bob Stolzle

Test Start: 2013.09.11 @ 04:00:00

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:

85000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	MW 20M 80W	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

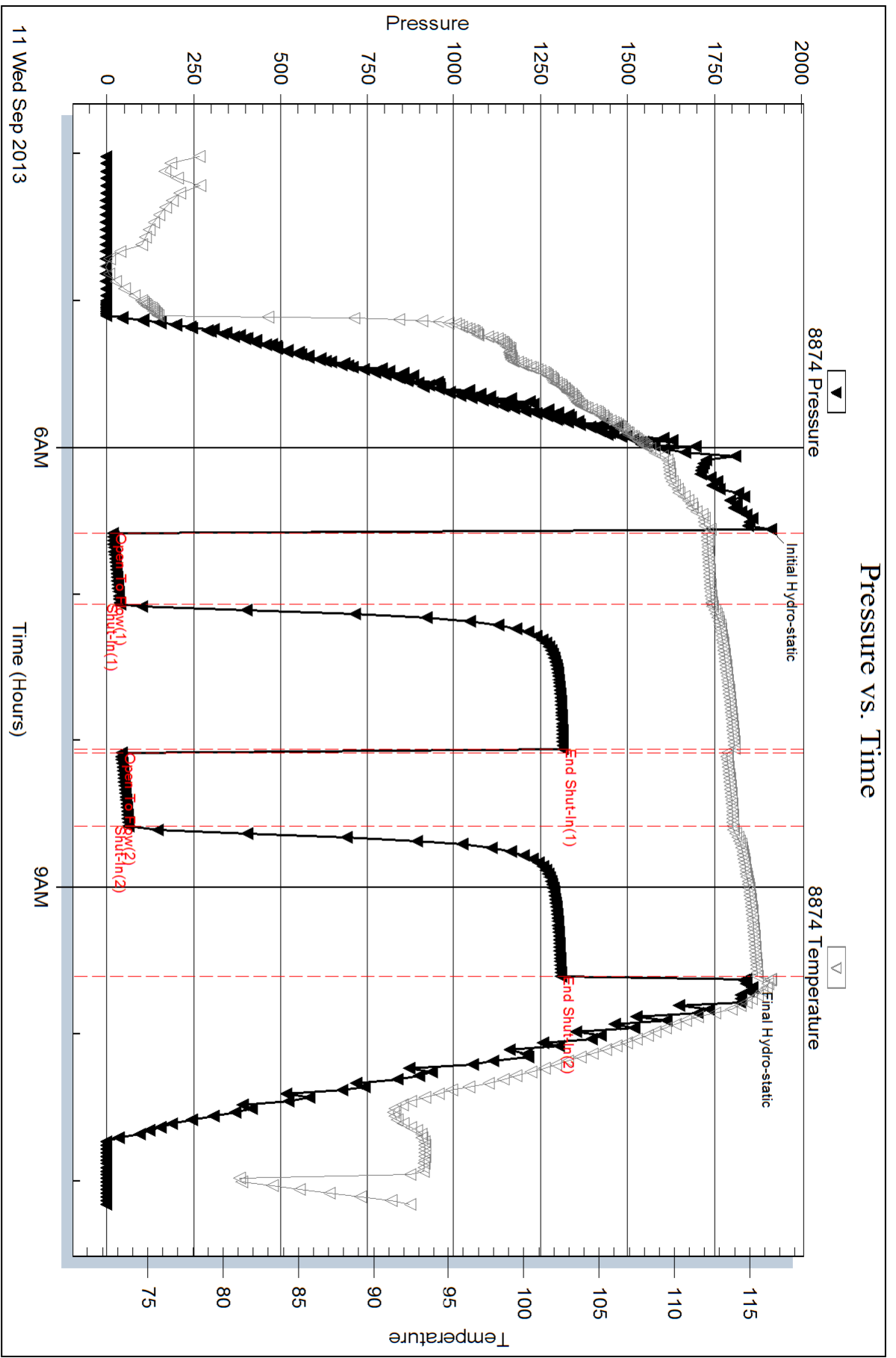
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .094 @ 72deg. = 85000ppm

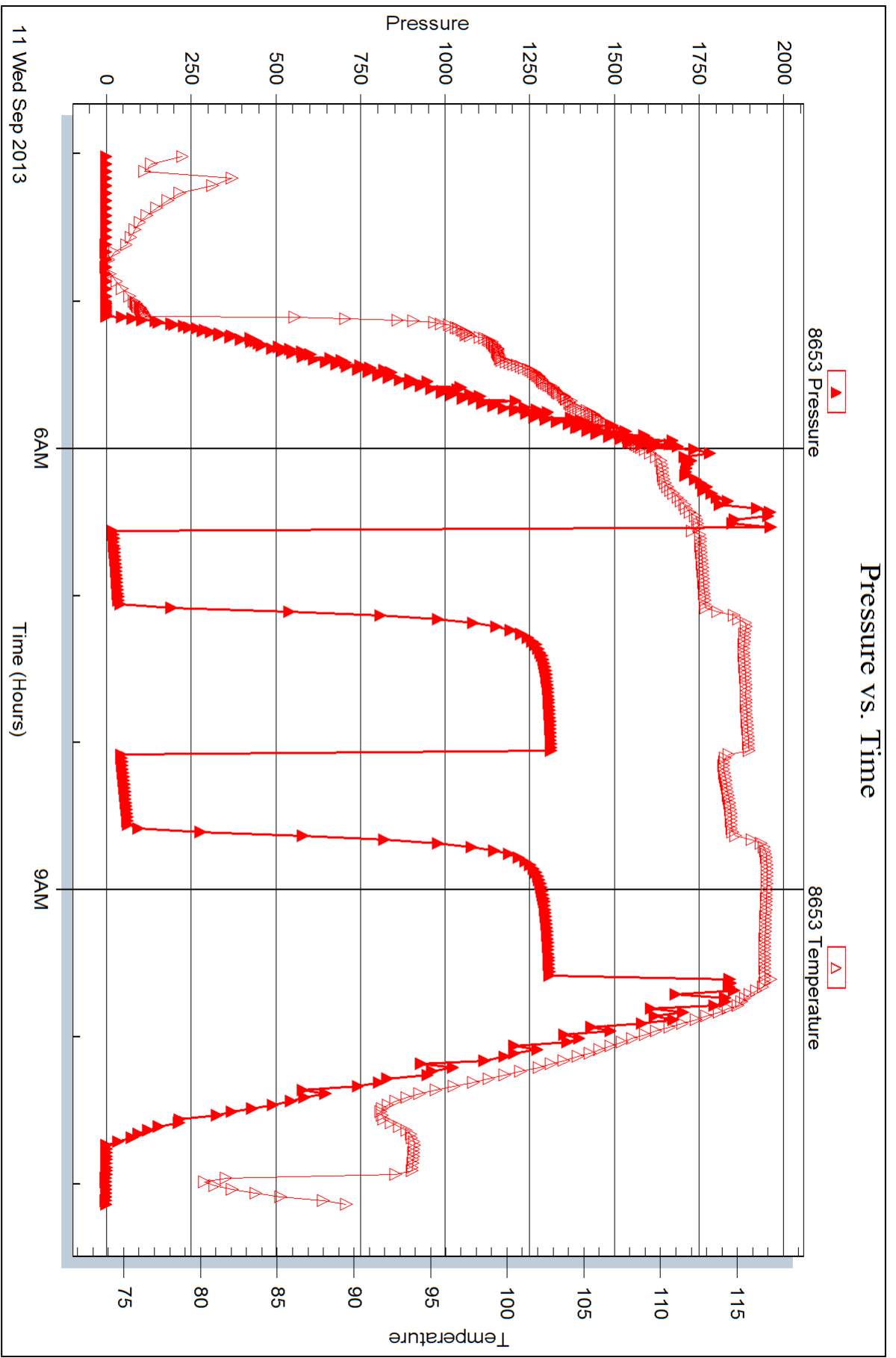


Serial #: 8653

Outside Murfin Drilling Co.

Brown #1-30

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 53528

Printed: 2013.09.16 @ 14:37:35



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Bob Stolze

Brown #1-30

30-4s-30w Decatur,KS

Start Date: 2013.09.11 @ 22:50:00

End Date: 2013.09.12 @ 05:51:30

Job Ticket #: 53529 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.16 @ 14:37:07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N Water STE #300
 Wichita, KS 67202
 ATTN: Bob Stolzle

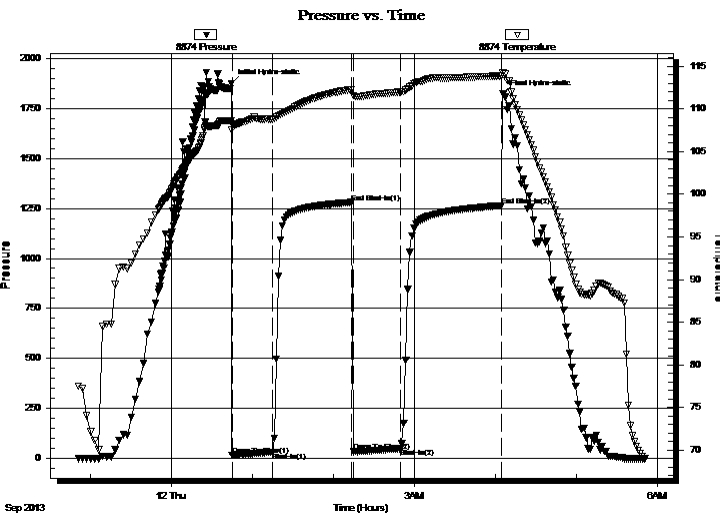
30-4s-30w Decatur, KS
Brown #1-30
 Job Ticket: 53529 **DST#: 2**
 Test Start: 2013.09.11 @ 22:50:00

GENERAL INFORMATION:

Formation: **LKC "E-G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:44:40
 Time Test Ended: 05:51:30
 Interval: **3945.00 ft (KB) To 3980.00 ft (KB) (TVD)**
 Total Depth: 3980.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Reference Elevations: 2846.00 ft (KB)
 2835.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8874 Inside
 Press @ Run Depth: 48.40 psig @ 3946.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.11 End Date: 2013.09.12 Last Calib.: 2013.09.12
 Start Time: 22:51:00 End Time: 05:51:30 Time On Btm: 2013.09.12 @ 00:44:30
 Time Off Btm: 2013.09.12 @ 04:05:30

TEST COMMENT: 30 - IF- 1/8" Blow built to 3/4"
 60 - IS- No Return
 30 - FF- Weak surface blow started 8 min. Built to 1/2"
 60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1876.41	108.66	Initial Hydro-static
1	14.88	107.56	Open To Flow (1)
30	31.83	108.80	Shut-In(1)
89	1280.01	112.32	End Shut-In(1)
90	33.62	111.59	Open To Flow (2)
125	48.40	112.00	Shut-In(2)
200	1263.18	113.89	End Shut-In(2)
201	1821.90	114.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	WM 15W 85M	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

30-4s-30w Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Brown #1-30

Job Ticket: 53529

DST#: 2

ATTN: Bob Stolzle

Test Start: 2013.09.11 @ 22:50:00

Tool Information

Drill Pipe:	Length: 3716.00 ft	Diameter: 3.80 inches	Volume: 52.13 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: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 53.28 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3945.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 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			3918.00	
Shut In Tool	5.00			3923.00	
Hydraulic tool	5.00			3928.00	
Jars	5.00			3933.00	
Safety Joint	3.00			3936.00	
Packer	5.00			3941.00	28.00 Bottom Of Top Packer
Packer	4.00			3945.00	
Stubb	1.00			3946.00	
Recorder	0.00	8653	Outside	3946.00	
Recorder	0.00	8874	Inside	3946.00	
Perforations	29.00			3975.00	
Bullnose	5.00			3980.00	35.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

30-4s-30w Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Brown #1-30

Job Ticket: 53529

DST#: 2

ATTN: Bob Stolzle

Test Start: 2013.09.11 @ 22:50:00

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	WM 15W 85M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

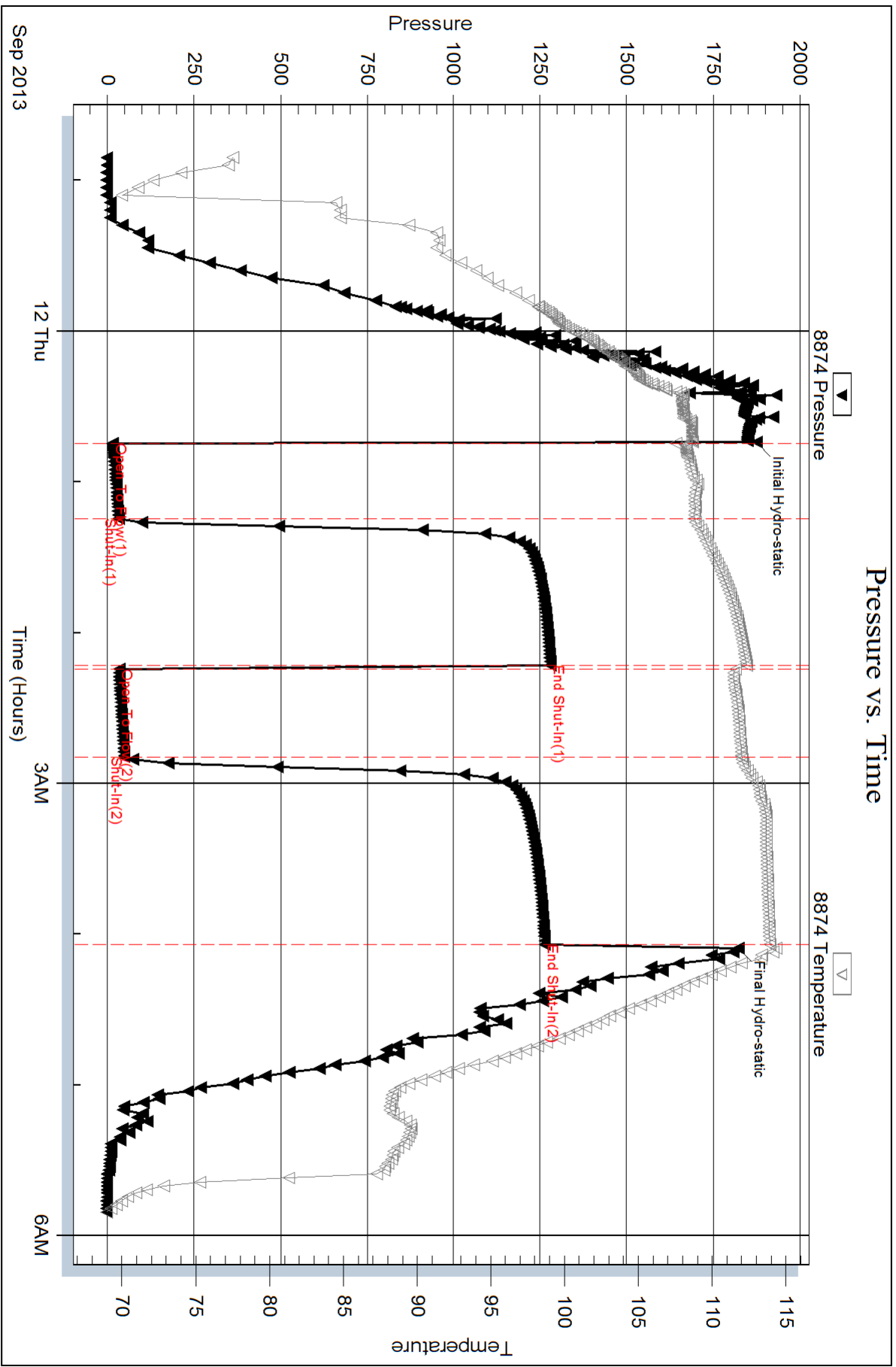
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

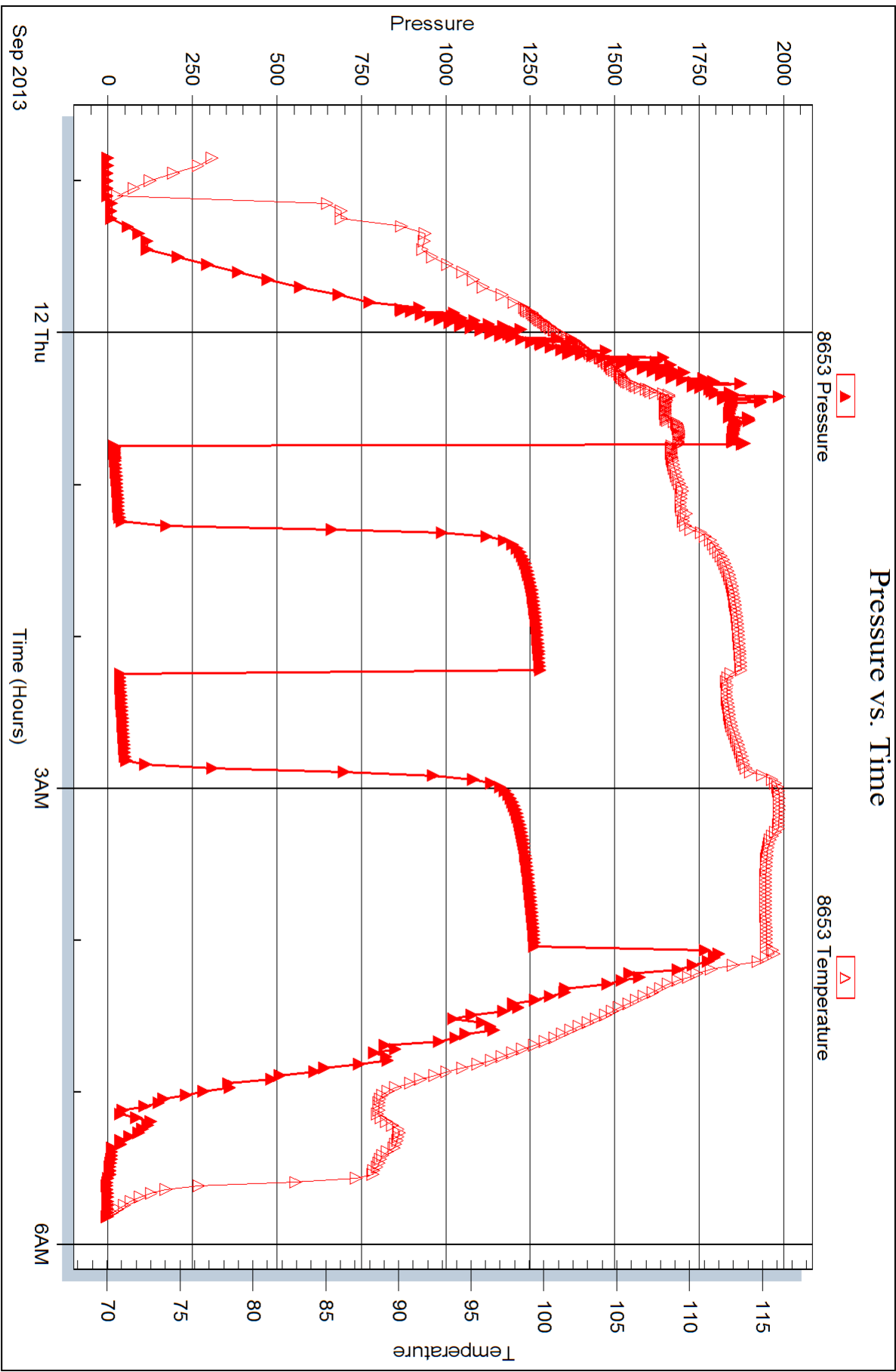


Serial #: 8653

Outside Murfin Drilling Co.

Brown #1-30

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Bob Stolze

Brown #1-30

30-4s-30w Decatur,KS

Start Date: 2013.09.12 @ 21:42:00

End Date: 2013.09.13 @ 04:44:00

Job Ticket #: 53530 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.16 @ 14:36:20

Murfin Drilling Co. 30-4s-30w Decatur,KS Brown #1-30 DST # 3 LKC "J-K" 2013.09.12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N Water STE #300
 Wichita, KS 67202
 ATTN: Bob Stolzle

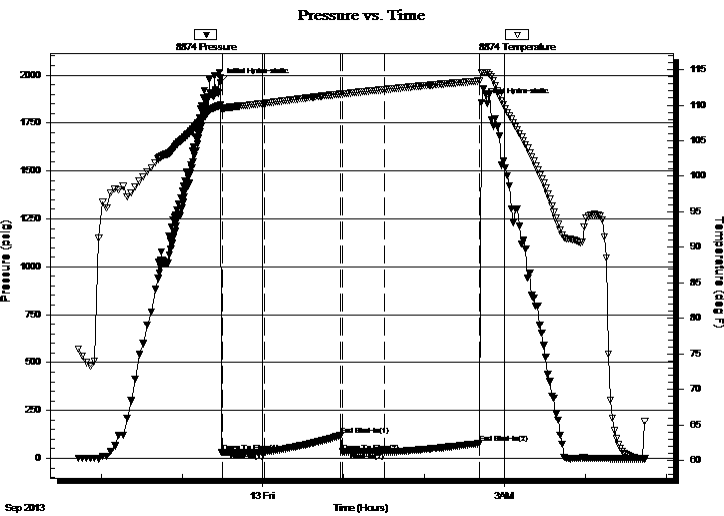
30-4s-30w Decatur, KS
Brown #1-30
 Job Ticket: 53530 **DST#: 3**
 Test Start: 2013.09.12 @ 21:42:00

GENERAL INFORMATION:

Formation: **LKC "J-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:29:40
 Time Test Ended: 04:44:00
 Interval: **4032.00 ft (KB) To 4100.00 ft (KB) (TVD)**
 Total Depth: 4100.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Reference Elevations: 2846.00 ft (KB)
 2835.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8874 Inside
 Press @ Run Depth: 34.14 psig @ 4033.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.12 End Date: 2013.09.13 Last Calib.: 2013.09.13
 Start Time: 21:43:00 End Time: 04:44:00 Time On Btm: 2013.09.12 @ 23:28:40
 Time Off Btm: 2013.09.13 @ 02:42:30

TEST COMMENT: 30 - IF- Surface Blow built to 1/4" then died back to surface
 60 - IS- No Return
 30 - FF- No Blow
 60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.87	110.01	Initial Hydro-static
1	30.65	109.54	Open To Flow (1)
33	30.70	110.26	Shut-In(1)
89	118.21	111.56	End Shut-In(1)
91	34.31	111.53	Open To Flow (2)
122	34.14	112.19	Shut-In(2)
193	78.18	113.40	End Shut-In(2)
194	1857.90	114.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100M	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

30-4s-30w Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Brown #1-30

Job Ticket: 53530

DST#: 3

ATTN: Bob Stolzle

Test Start: 2013.09.12 @ 21:42:00

Tool Information

Drill Pipe:	Length: 3780.00 ft	Diameter: 3.80 inches	Volume: 53.02 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: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	73000.00 lb
			<u>Total Volume: 54.17 bbl</u>	Tool Chased	5.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4032.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	96.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Chased tool 5' to bottom... Bled off initial surge after chasing tool to bottom.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4005.00	
Shut In Tool	5.00			4010.00	
Hydraulic tool	5.00			4015.00	
Jars	5.00			4020.00	
Safety Joint	3.00			4023.00	
Packer	5.00			4028.00	28.00 Bottom Of Top Packer
Packer	4.00			4032.00	
Stubb	1.00			4033.00	
Recorder	0.00	8653	Outside	4033.00	
Recorder	0.00	8874	Inside	4033.00	
Perforations	1.00			4034.00	
Change Over Sub	1.00			4035.00	
Drill Pipe	61.00			4096.00	
Change Over Sub	1.00			4097.00	
Bullnose	3.00			4100.00	68.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

30-4s-30w Decatur,KS

250 N Water STE #300
Wichita, KS 67202

Brown #1-30

Job Ticket: 53530

DST#: 3

ATTN: Bob Stolzle

Test Start: 2013.09.12 @ 21:42:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

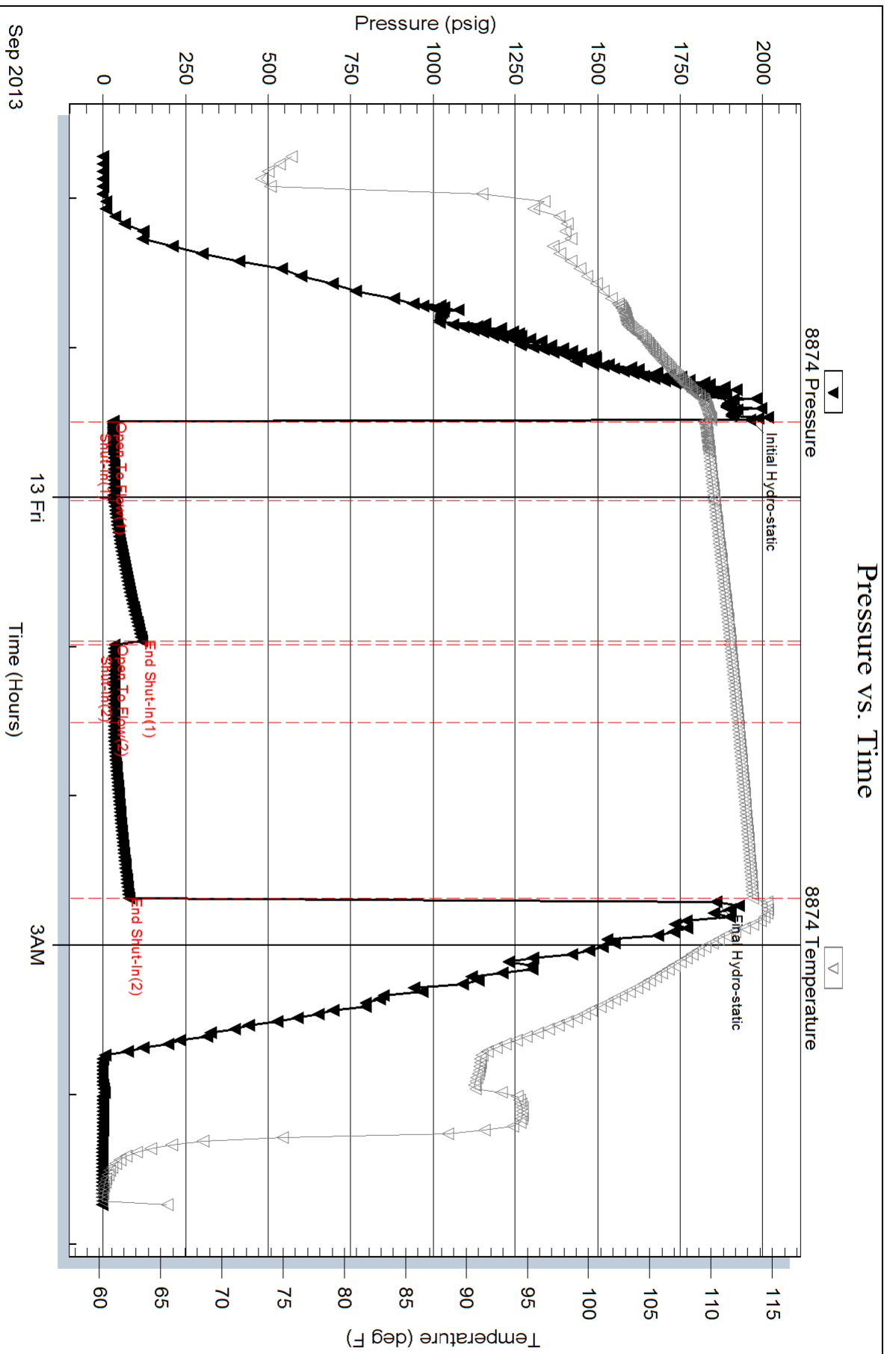
Serial #: 8874

Inside

Murfin Drilling Co.

Brown n#1-30

DST Test Number: 3

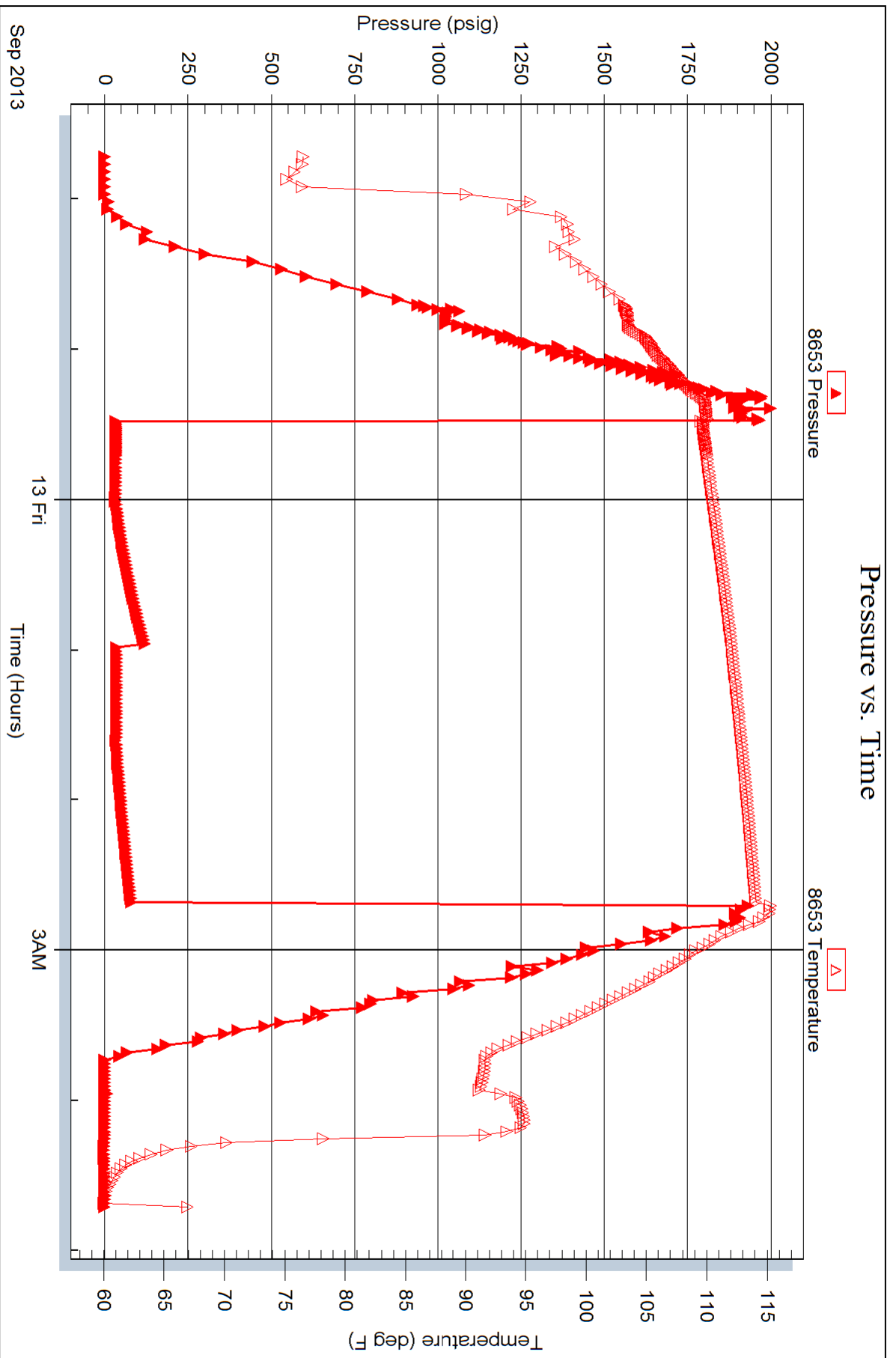


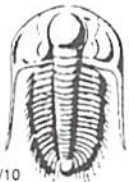
Serial #: 8653

Outside Murfin Drilling Co.

Brown #1-30

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53528

Well Name & No. Brown # 1-300 Test No. 1 Date 9-11-13
 Company Murfin Drilling Co. Elevation 2846 KB 2835 GL
 Address 250 N Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolze Rig Murfin #2
 Location: Sec. NW30 Twp. 4S Rge. 30W Co. Decatur State KS

Interval Tested 3845-3930 Zone Tested Toronto-LKC "A-B"
 Anchor Length 85' Drill Pipe Run 3593 Mud Wt. 88
 Top Packer Depth 3841 Drill Collars Run 234' Vis 63
 Bottom Packer Depth 3845 Wt. Pipe Run 0 WL 60
 Total Depth 3930 Chlorides 1,100 ppm System LCM 3#

Blow Description IF - 1/4" Blow built to 2"
ISI - NO Return
AF - Weak Surface Blow started at 15 min. Built to 1/2"
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>LM</u>	<u>80</u>		<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 80 BHT 116 Gravity - API RW 094 @ 72 °F Chlorides 85,000 ppm

(A) Initial Hydrostatic <u>1911</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>3:15 AM</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:00 AM</u>
(C) First Final Flow <u>39</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:35 AM</u>
(D) Initial Shut-In <u>1313</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>9:35 AM</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:00 AM</u>
(F) Second Final Flow <u>62</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT</u> 77.50	Comments
(G) Final Shut-In <u>1307</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1841</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	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In	<input type="checkbox"/> Day Standby	Total <u>1552.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1552.50</u>	

Approved By _____ Our Representative _____
 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. 53529

Well Name & No. Brown # 1-30 Test No. 2 Date 9-11-13
 Company Murrin Drilling Co. Elevation 2846 KB 2835 GL
 Address 250 N Water STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolzie Rig Murrin #2
 Location: Sec. NW30 Twp. 4S Rge. 30W Co. Decatur State KS

Interval Tested 3945-3988 Zone Tested LKC "E-F-G"
 Anchor Length 35' Drill Pipe Run 3716 Mud Wt. 9.1
 Top Packer Depth 3941 Drill Collars Run 234 Vis 69
 Bottom Packer Depth 3945 Wt. Pipe Run Ø WL 6.05
 Total Depth 3988 Chlorides 1,100 ppm System LCM 4#

Blow Description IF - 1/8" Blow built to 3/4"
ISI - NO Return
FF - Weak surface Blow started at 8 min. Built to 1/2"
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>WM</u>		<u>15</u>	<u>85</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

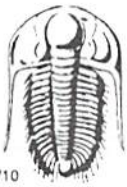
Rec Total 20 BHT 114 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1876</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:30 PM</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:50 PM</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:45 AM</u>
(D) Initial Shut-In <u>1280</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>3:45 AM</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:10 AM</u>
(F) Second Final Flow <u>48</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT</u> 77.50	Comments
(G) Final Shut-In <u>1263</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1821</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"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1552.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1552.50</u>	

Approved By _____ Our Representative

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 sustained 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. 53530

Well Name & No. Brown #1-308 Test No. 3 Date 9-12-13
 Company Muffin Drilling Co Elevation 2846 KB 2835 GL
 Address 2508 N Water STE # 3008 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolzle Rig Muffin #2
 Location: Sec. NW308 Twp. 4S Rge. 30W Co. Decatur State KS

Interval Tested 4032-4100 Zone Tested LKC "J-K"
 Anchor Length 68' Drill Pipe Run 3700' Mud Wt. 8.8
 Top Packer Depth 4028 Drill Collars Run 234 Vis 52
 Bottom Packer Depth 4032 Wt. Pipe Run 0 WL 6.8
 Total Depth 4100 Chlorides 900 ppm System LCM 4#

Blow Description IF - Surface Blow built to 1/4" then died back to surface.
IS - No Return
PF - No Blow
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</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 Total 30 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1961 Test 1250 T-On Location 9:00 PM
 (B) First Initial Flow 30 Jars 250 T-Started 9:42 PM
 (C) First Final Flow 30 Safety Joint 75 T-Open 11:30 PM
 (D) Initial Shut-In 118 Circ Sub NIC T-Pulled 2:30 AM
 (E) Second Initial Flow 34 Hourly Standby _____ T-Out 4:55 AM
 (F) Second Final Flow 34 Mileage 50RT 77.50 Comments Chased to 105' to Bottom. Bled off initial surge.
 (G) Final Shut-In 78 Sampler _____ Ruined Shale Packer _____
 (H) Final Hydrostatic 1857 Straddle _____ Ruined Packer _____
 Initial Open 30 Shale Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1652.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1652.50

Approved By _____ Our Representative [Signature]

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