



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 800
Wichita KS 67202

ATTN: Rocky Milford

Winifred #1-36

36-7s-15w Osborne,KS

Start Date: 2014.08.11 @ 03:53:10

End Date: 2014.08.11 @ 09:51:30

Job Ticket #: 60504 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.15 @ 08:47:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

36-7s-15w Osborne, KS

250 N Water STE 800
Wichita KS 67202

Winifred #1-36

Job Ticket: 60504

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.08.11 @ 03:53:10

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:33:40

Time Test Ended: 09:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 77

Interval: 2704.00 ft (KB) To 2725.00 ft (KB) (TVD)

Reference Elevations: 1765.00 ft (KB)

Total Depth: 2725.00 ft (KB) (TVD)

1760.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 20.40 psig @ 2707.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.11

End Date:

2014.08.11

Last Calib.: 2014.08.11

Start Time: 03:53:11

End Time:

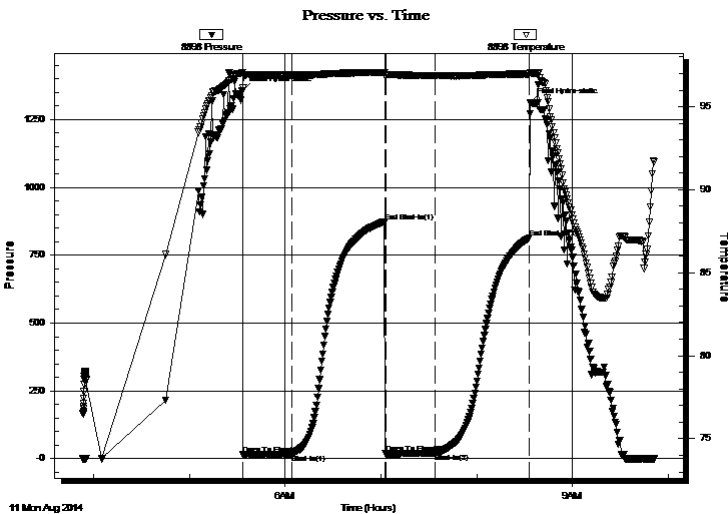
09:51:30

Time On Btm: 2014.08.11 @ 05:33:30

Time Off Btm: 2014.08.11 @ 08:33:49

TEST COMMENT: Weak surface blow
Dead no blow back
Dead no blow
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1356.28	97.07	Initial Hydro-static
1	15.46	96.12	Open To Flow (1)
31	17.80	96.89	Shut-In(1)
89	873.93	97.06	End Shut-In(1)
90	18.74	96.85	Open To Flow (2)
121	20.40	96.87	Shut-In(2)
180	813.08	96.97	End Shut-In(2)
181	1313.22	97.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 5%O 95%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

36-7s-15w Osborne, KS

250 N Water STE 800
Wichita KS 67202

Winifred #1-36

Job Ticket: 60504

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.08.11 @ 03:53:10

Tool Information

Drill Pipe:	Length: 2620.00 ft	Diameter: 3.80 inches	Volume: 36.75 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 88.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 37.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2704.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2682.00	
Hydraulic tool	5.00			2687.00	
Jars	5.00			2692.00	
Safety Joint	2.00			2694.00	
Packer	5.00			2699.00	27.00 Bottom Of Top Packer
Packer	5.00			2704.00	
Stubb	1.00			2705.00	
Perforations	2.00			2707.00	
Recorder	0.00	8897	Inside	2707.00	
Recorder	0.00	8898	Outside	2707.00	
Perforations	15.00			2722.00	
Bullnose	3.00			2725.00	21.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

36-7s-15w Osborne,KS

250 N Water STE 800
Wichita KS 67202

Winifred #1-36

Job Ticket: 60504

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.08.11 @ 03:53:10

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: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 5%O 95%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

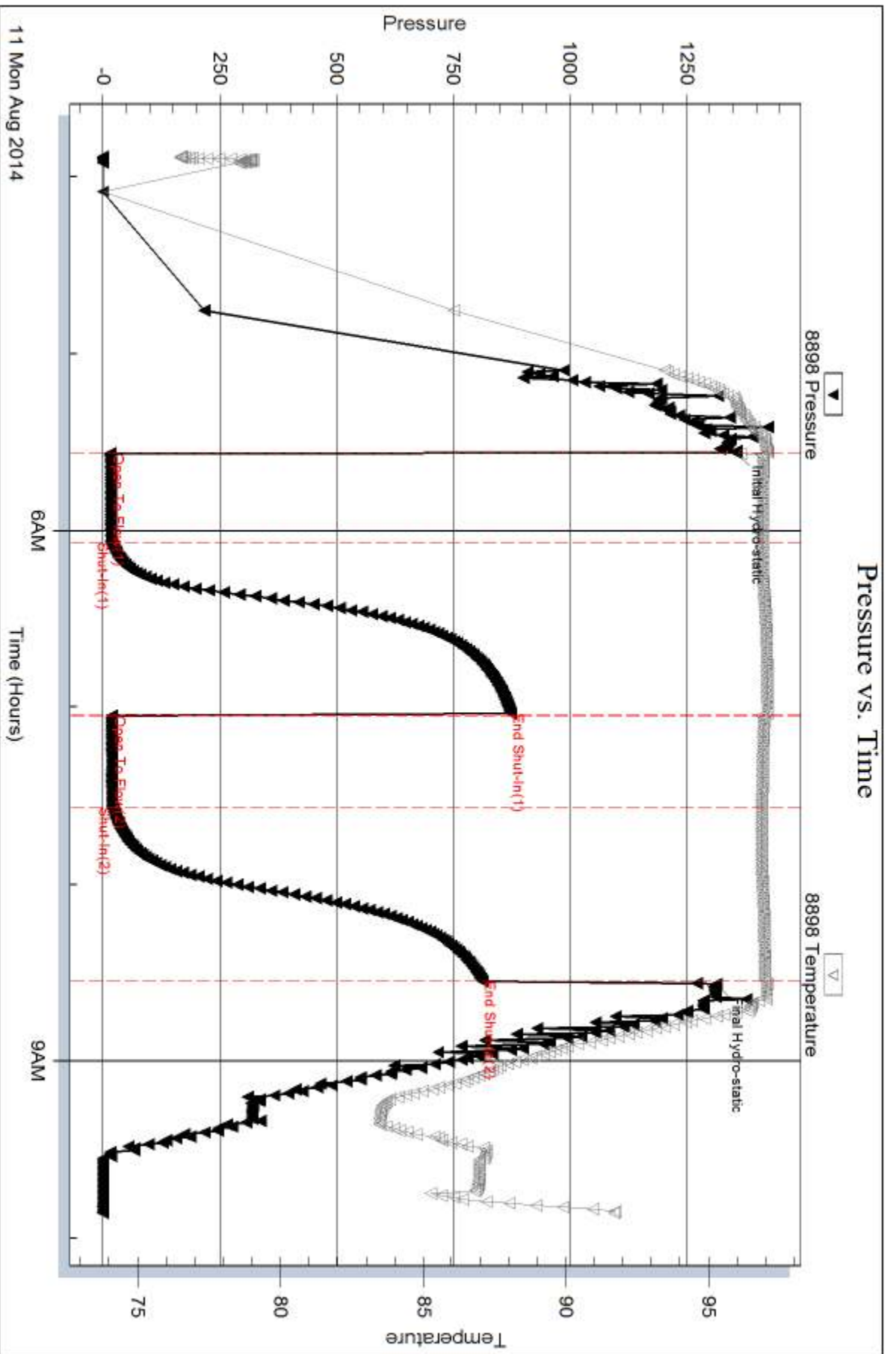
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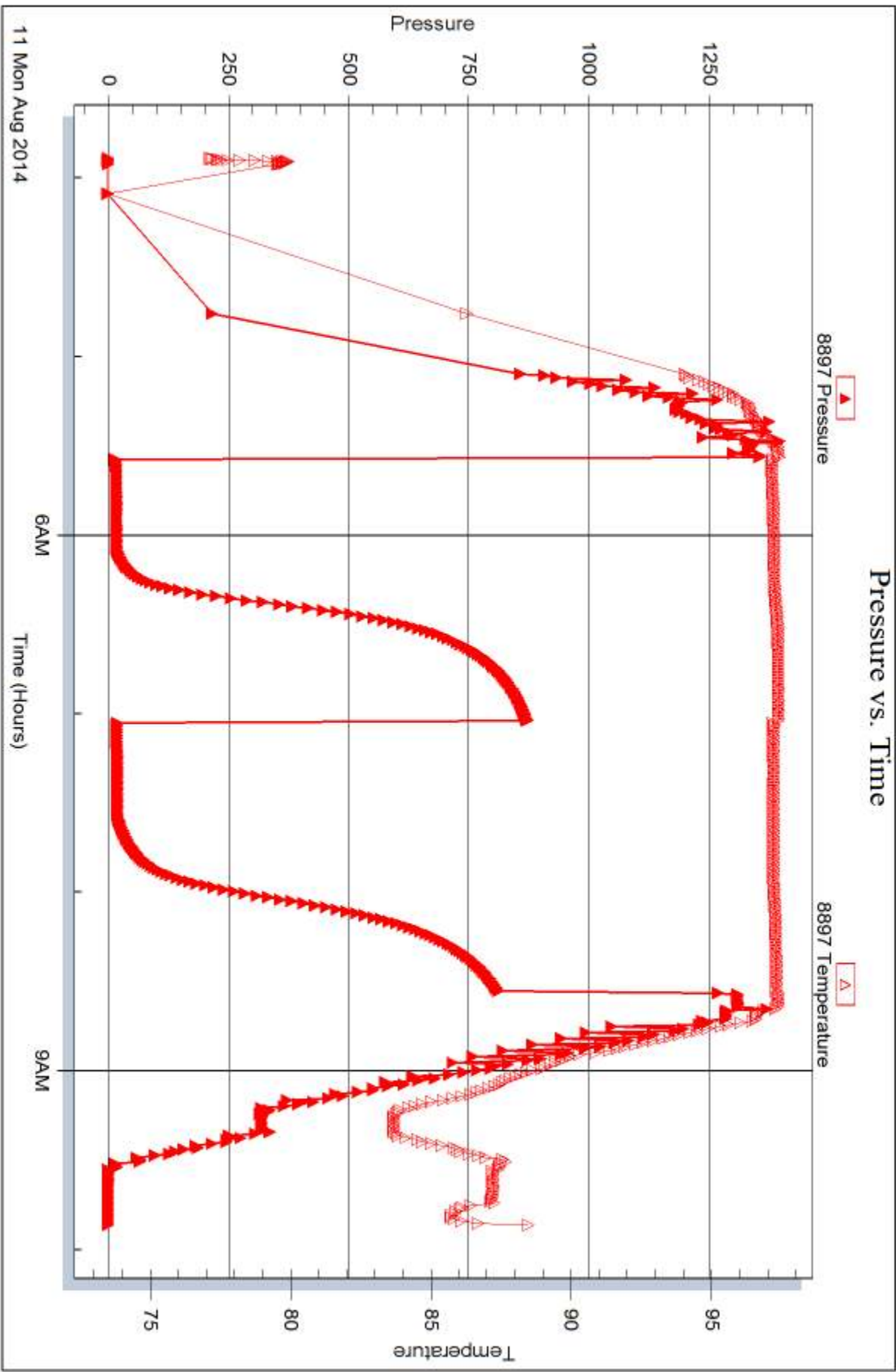
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 800
Wichita KS 67202

ATTN: Rocky Milford

Winifred #1-36

36-7s-15w Osborne,KS

Start Date: 2014.08.12 @ 03:55:58

End Date: 2014.08.12 @ 09:48:58

Job Ticket #: 60505 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.15 @ 08:47:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company
250 N Water STE 800
Wichita KS 67202
ATTN: Rocky Milford

36-7s-15w Osborne, KS

Winifred #1-36

Job Ticket: 60505

DST#: 2

Test Start: 2014.08.12 @ 03:55:58

GENERAL INFORMATION:

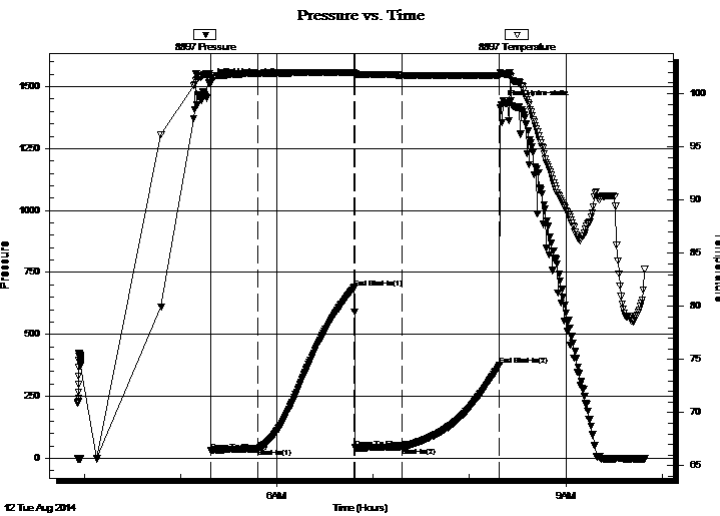
Formation: **LKC A-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:18:48
 Time Test Ended: 09:48:58
 Interval: **2945.00 ft (KB) To 3040.00 ft (KB) (TVD)**
 Total Depth: 3040.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 77
 Reference Elevations: 1765.00 ft (KB)
 1760.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8897

Inside

Press@RunDepth: 46.20 psig @ 2973.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.12 End Date: 2014.08.12 Last Calib.: 2014.08.12
 Start Time: 03:55:59 End Time: 09:48:58 Time On Btm: 2014.08.12 @ 05:18:38
 Time Off Btm: 2014.08.12 @ 08:19:37

TEST COMMENT: Weak surface blow built to 3/4"
 Dead no blow back
 Dead no blow
 Deadno blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1514.43	101.88	Initial Hydro-static
1	30.31	101.08	Open To Flow (1)
30	38.80	101.91	Shut-In(1)
90	689.04	102.01	End Shut-In(1)
90	41.82	101.80	Open To Flow (2)
120	46.20	101.71	Shut-In(2)
180	376.02	101.71	End Shut-In(2)
181	1426.54	101.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	100%M With oil spots	0.30

* 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 Company

36-7s-15w Osborne, KS

250 N Water STE 800
Wichita KS 67202

Winifred #1-36

Job Ticket: 60505

DST#: 2

ATTN: Rocky Milford

Test Start: 2014.08.12 @ 03:55:58

Tool Information

Drill Pipe:	Length: 2837.00 ft	Diameter: 3.80 inches	Volume: 39.80 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 88.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose:	42000.00 lb
			<u>Total Volume: 40.23 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	2945.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	95.00 ft				
Tool Length:	122.00 ft				
Number of Packers:	2	Diameter: 675.00 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2923.00	
Hydraulic tool	5.00			2928.00	
Jars	5.00			2933.00	
Safety Joint	2.00			2935.00	
Packer	5.00			2940.00	27.00 Bottom Of Top Packer
Packer	5.00			2945.00	
Stubb	1.00			2946.00	
Perforations	27.00			2973.00	
Recorder	0.00	8897	Inside	2973.00	
Recorder	0.00	8898	Outside	2973.00	
Change Over Sub	1.00			2974.00	
Drill Pipe	62.00			3036.00	
Change Over Sub	1.00			3037.00	
Bullnose	3.00			3040.00	95.00 Bottom Packers & Anchor

Total Tool Length: 122.00



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36-7s-15w Osborne, KS

250 N Water STE 800
Wichita KS 67202

Winifred #1-36

Job Ticket: 60505

DST#: 2

ATTN: Rocky Milford

Test Start: 2014.08.12 @ 03:55:58

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	100%M With oil spots	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

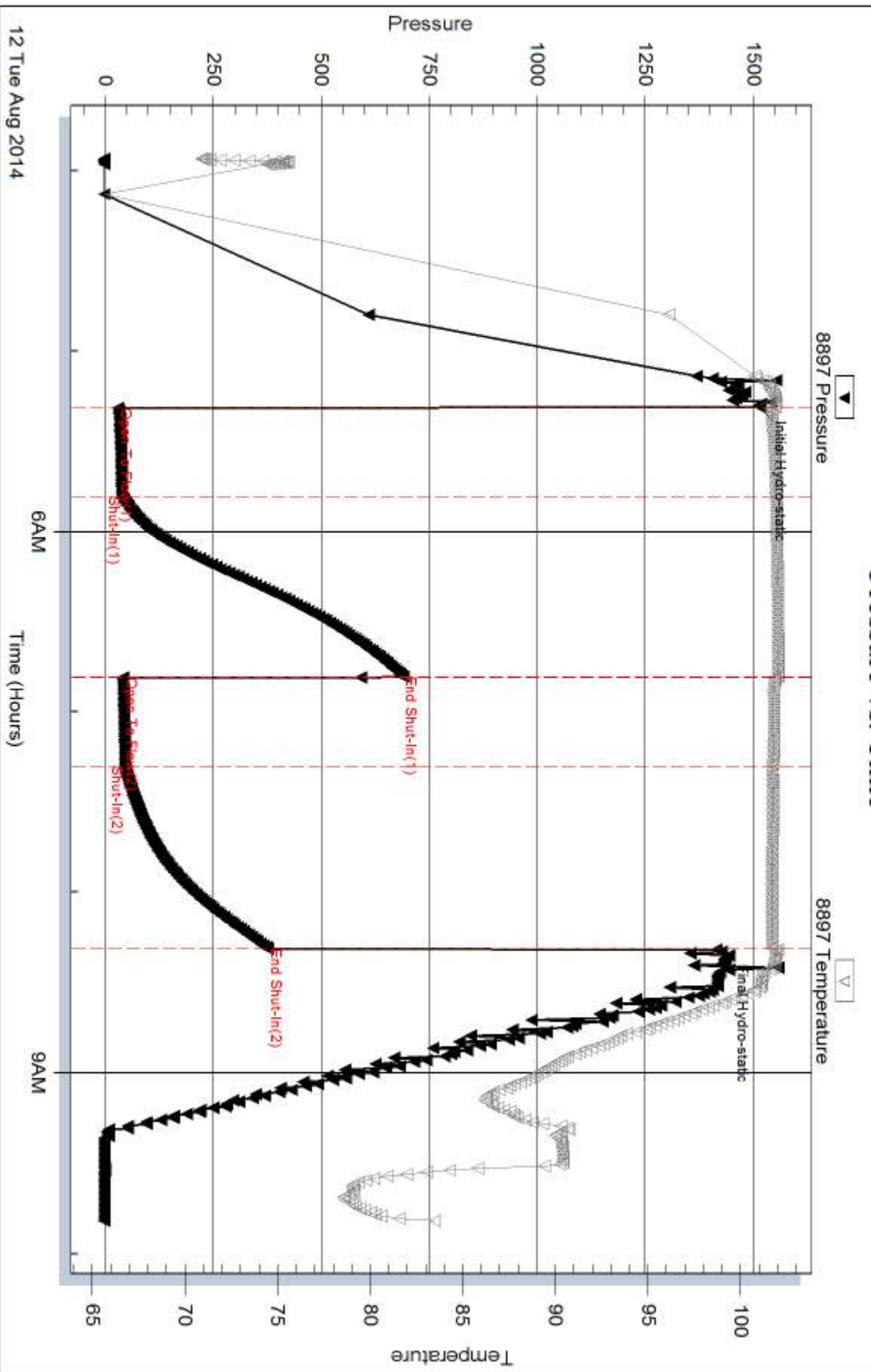
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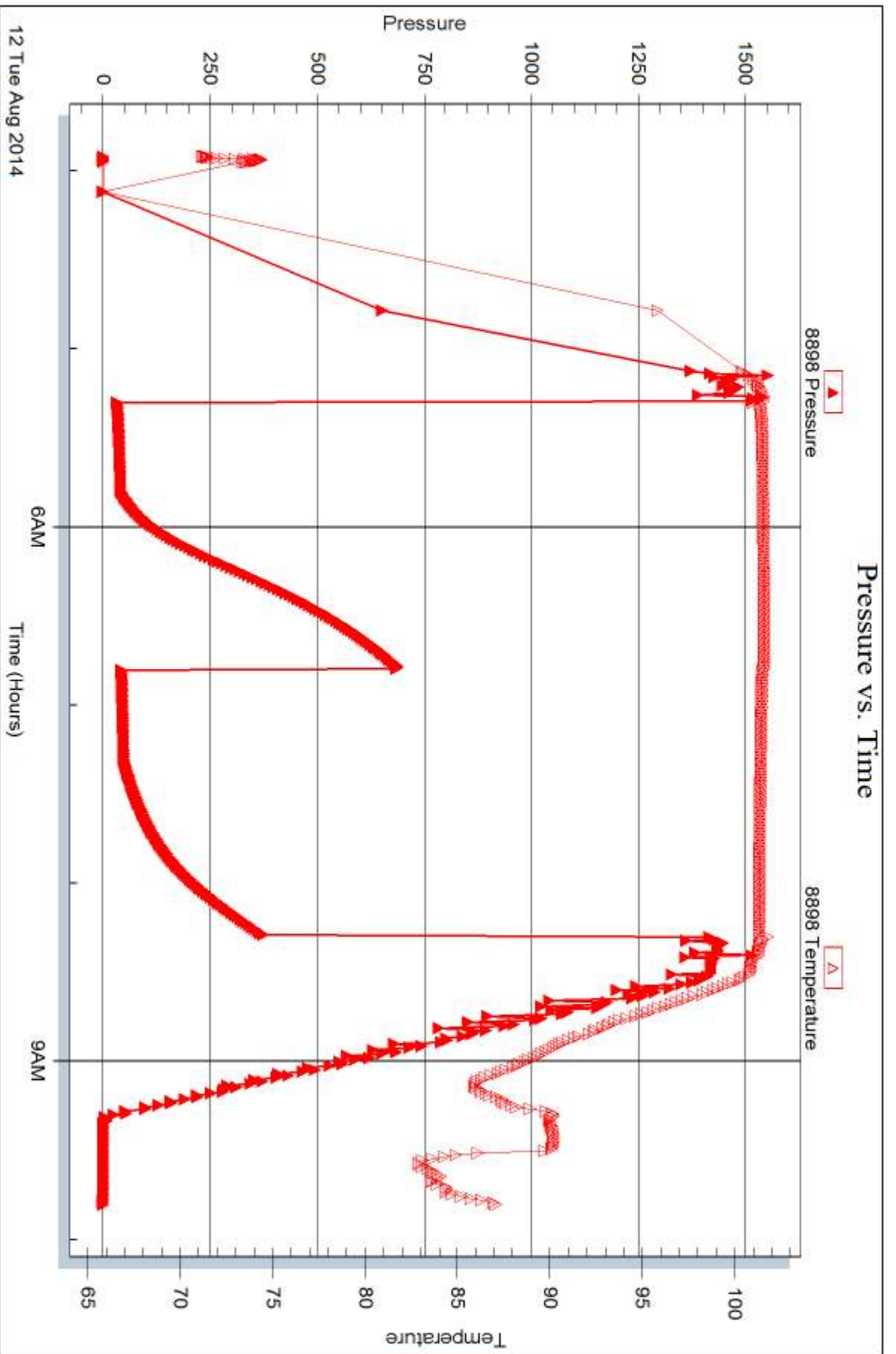
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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250 N Water STE 800
Wichita KS 67202

ATTN: Rocky Milford

Winifred #1-36

36-7s-15w Osborne,KS

Start Date: 2014.08.13 @ 02:44:25

End Date: 2014.08.13 @ 09:47:45

Job Ticket #: 60506 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.15 @ 08:46:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company
250 N Water STE 800
Wichita KS 67202
ATTN: Rocky Milford

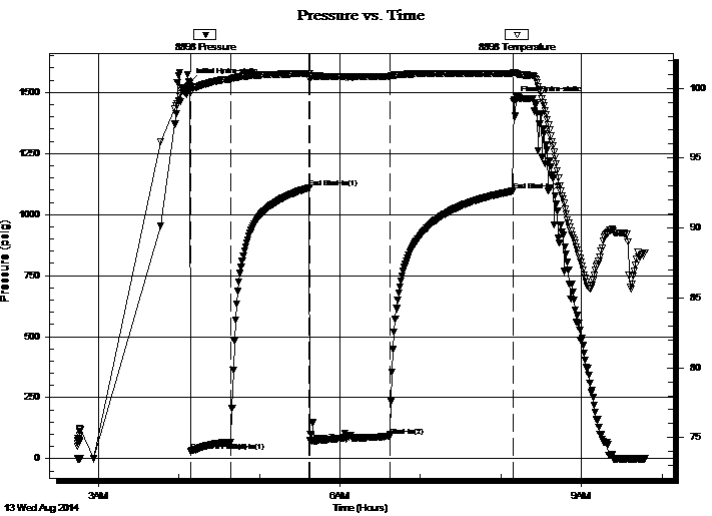
36-7s-15w Osborne, KS
Winifred #1-36
Job Ticket: 60506 **DST#: 3**
Test Start: 2014.08.13 @ 02:44:25

GENERAL INFORMATION:

Formation: **LKC E-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:08:35
Time Test Ended: 09:47:45
Interval: **3035.00 ft (KB) To 3210.00 ft (KB) (TVD)**
Total Depth: 3210.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Tate Lang
Unit No: 77
Reference Elevations: 1765.00 ft (KB)
1760.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8898 Outside
Press@RunDepth: 90.96 psig @ 3039.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.13 End Date: 2014.08.13 Last Calib.: 2014.08.13
Start Time: 02:44:26 End Time: 09:47:45 Time On Btm: 2014.08.13 @ 04:08:15
Time Off Btm: 2014.08.13 @ 08:09:55

TEST COMMENT: Fair blow built to 4"
Dead no blow back
Fair blow built to 4"
Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1538.30	100.19	Initial Hydro-static
1	31.58	99.67	Open To Flow (1)
31	68.19	100.63	Shut-In(1)
89	1109.83	101.04	End Shut-In(1)
90	73.13	100.62	Open To Flow (2)
149	90.96	100.85	Shut-In(2)
241	1095.89	101.06	End Shut-In(2)
242	1468.15	101.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	100%M spots of oil on top of tool	1.37

* 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 Company

36-7s-15w Osborne, KS

250 N Water STE 800
Wichita KS 67202

Winifred #1-36

Job Ticket: 60506

DST#: 3

ATTN: Rocky Milford

Test Start: 2014.08.13 @ 02:44:25

Tool Information

Drill Pipe:	Length: 2930.00 ft	Diameter: 3.80 inches	Volume: 41.10 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 88.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 41.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3035.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	175.00 ft			
Tool Length:	202.00 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
Shut In Tool	5.00			3013.00	
Hydraulic tool	5.00			3018.00	
Jars	5.00			3023.00	
Safety Joint	2.00			3025.00	
Packer	5.00			3030.00	27.00 Bottom Of Top Packer
Packer	5.00			3035.00	
Stubb	1.00			3036.00	
Perforations	3.00			3039.00	
Recorder	0.00	8897	Inside	3039.00	
Recorder	0.00	8898	Outside	3039.00	
Perforations	10.00			3049.00	
Change Over Sub	1.00			3050.00	
Drill Pipe	156.00			3206.00	
Change Over Sub	1.00			3207.00	
Bullnose	3.00			3210.00	175.00 Bottom Packers & Anchor

Total Tool Length: 202.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

36-7s-15w Osborne, KS

250 N Water STE 800
Wichita KS 67202

Winifred #1-36

Job Ticket: 60506

DST#: 3

ATTN: Rocky Milford

Test Start: 2014.08.13 @ 02:44:25

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
155.00	100%M spots of oil on top of tool	1.373

Total Length: 155.00 ft Total Volume: 1.373 bbl

Num Fluid Samples: 0

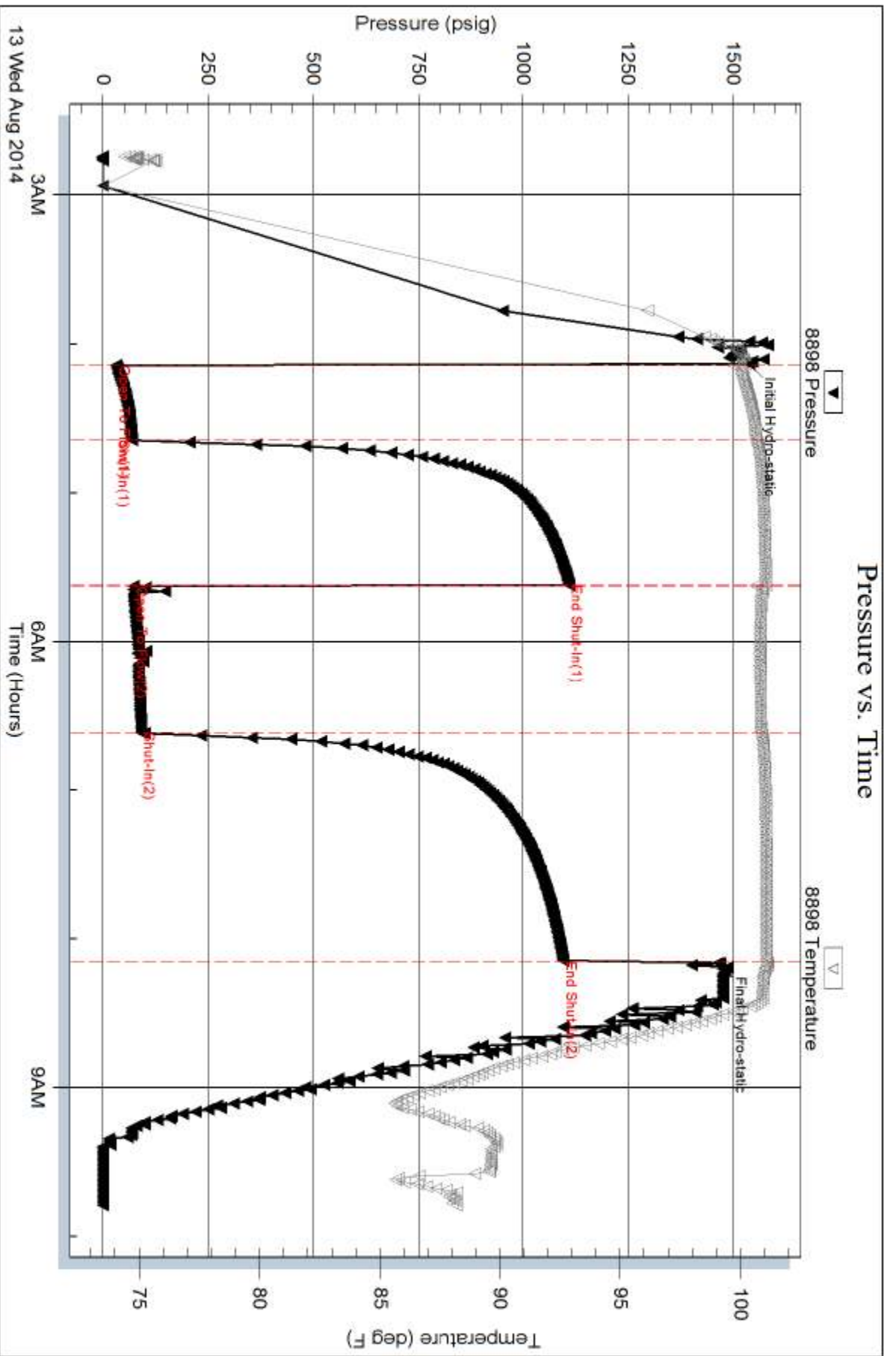
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



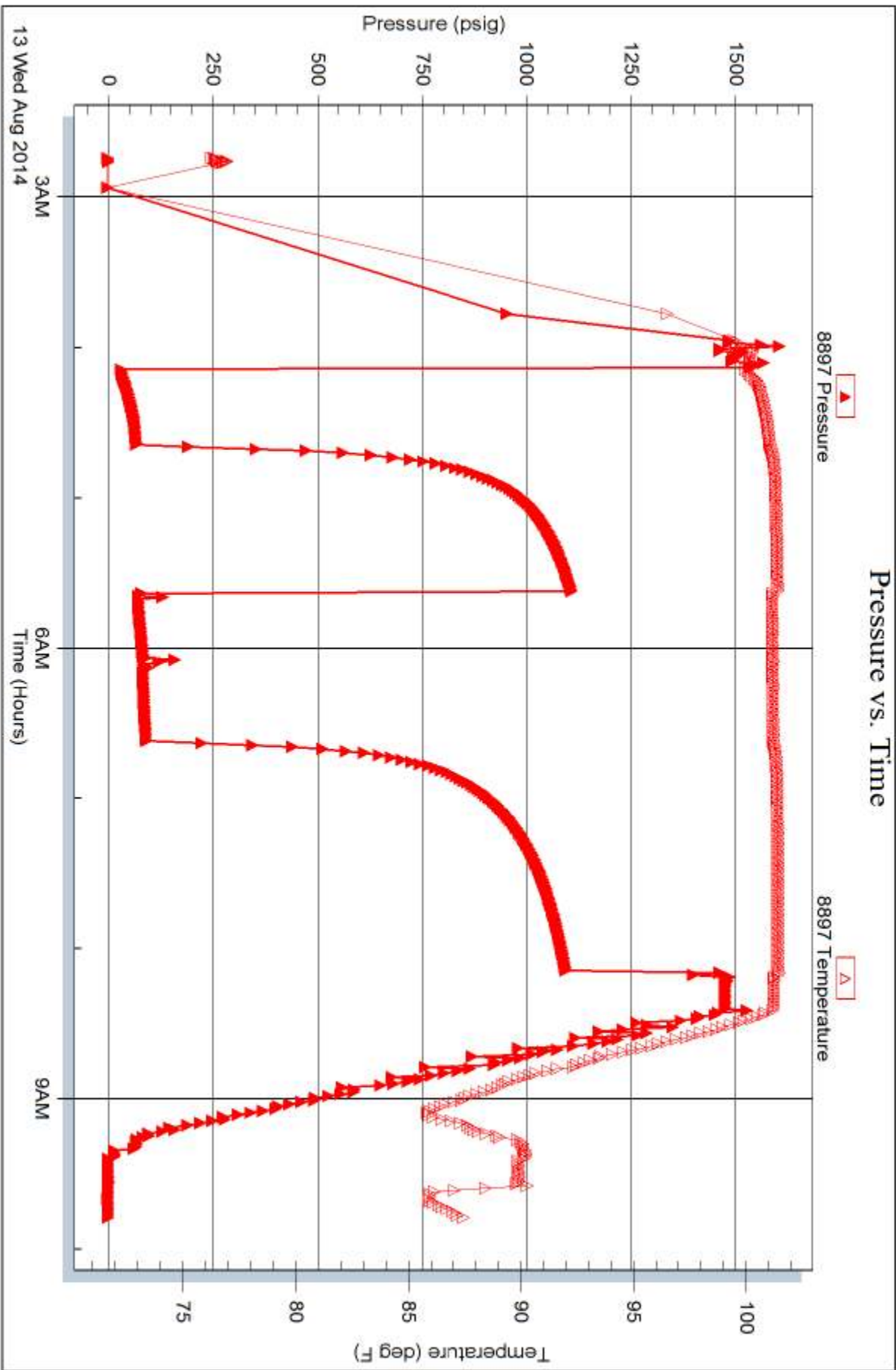
Serial #: 8897

Inside

Murfin Drilling Company

Wellbore #1-36

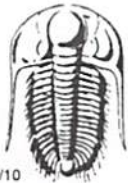
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 60506

Printed: 2014.08.15 @ 08:46:58



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60504

4/10

Well Name & No. Wini Fred #1-36 Test No. 1 Date 8-11-14
 Company Murfin Drilling Company Elevation 1764 KB 1759 GL
 Address 250 W Water St E 800 Wichita KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #24
 Location: Sec. 36 Twp. 7S Rge. 15W Co. Osborne State KS

Interval Tested 2704 2725 Zone Tested Topella
 Anchor Length 21 Drill Pipe Run 2620 Mud Wt. 8.6
 Top Packer Depth 2699 Drill Collars Run 88 Vis 73
 Bottom Packer Depth 204 Wt. Pipe Run 0 WL 6.4
 Total Depth 2725 Chlorides 3500 ppm System LCM 4#

Blow Description Weight surface blow
Dead no blow back
Dead no blow
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>10</u>	Feet of <u>50CM</u>	%gas	<u>5</u> %oil	%water	<u>95</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

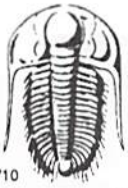
Rec Total 10 BHT 97 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1356 Test 1150 T-On Location 0310
 (B) First Initial Flow 75 Jars 250 T-Started 0353
 (C) First Final Flow 19 Safety Joint 75 T-Open 0537
 (D) Initial Shut-In 874 Circ Sub N/C T-Pulled 0813
 (E) Second Initial Flow 19 Hourly Standby T-Out 0951
 (F) Second Final Flow 30 Mileage 124RT 192.20 Comments Hotel
 (G) Final Shut-In 813 Sampler _____
 (H) Final Hydrostatic 1313 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1667.20
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1667.20

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. 60505

4/10

Well Name & No. WiniFred #1-36 Test No. 2 Date 8-12-14
 Company Murfin Drilling Company Elevation 1765 KB 1760 GL
 Address _____
 Co. Rep / Geo. Rocky Milford Rig Murfin #24
 Location: Sec. 36 Twp. 7S Rge. 1SW Co. Osborne State Ks

Interval Tested 2945 3040 Zone Tested LHC A+D
 Anchor Length _____ Drill Pipe Run 2837 Mud Wt. 9.0
 Top Packer Depth _____ Drill Collars Run 88 Vis 55
 Bottom Packer Depth _____ Wt. Pipe Run 0 WL 7.2
 Total Depth 3040 Chlorides 9300 ppm System LCM 2#

Blow Description Wealth surface blow built to 3/4 in
Dead no blow back
Acid no blow
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>60</u>	Feet of <u>mud with oil spots</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 102 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1514</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0345</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0355</u>
(C) First Final Flow <u>39</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0518</u>
(D) Initial Shut-In <u>689</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0818</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0948</u>
(F) Second Final Flow <u>46</u>	<input checked="" type="checkbox"/> Mileage <u>192.20</u>	Comments <u>MOKE</u>
(G) Final Shut-In <u>376</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1427</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Sub Total 1667.20
 Total 1667.20
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60506

Well Name & No. Winifred #1036 Test No. 3 Date 8-13-14
 Company Murfin Drilling Company Elevation 1765 KB 1760 GL
 Address _____
 Co. Rep / Geo. Rocky Milford Rig Murfin #24
 Location: Sec. 36 Twp. 7S Rge. 15W Co. Osborne State KS

Interval Tested 3035 3210 Zone Tested LRC E-K
 Anchor Length 175 Drill Pipe Run 2930 Mud Wt. 9.2
 Top Packer Depth 3030 Drill Collars Run 88 Vis 49
 Bottom Packer Depth 3035 Wt. Pipe Run 0 WL 10.0
 Total Depth 3210 Chlorides 11,100 ppm System LCM 3#

Blow Description Fair blow built to 4in
Dead no blow back
Fair blow built to 4in
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>155</u>	Feet of <u>Mud Spots Oil on top of</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of <u>Tool</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 155 BHT 101 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1538 Test 1150 T-On Location 035
 (B) First Initial Flow 32 Jars 250 T-Started 0244
 (C) First Final Flow 68 Safety Joint 75 T-Open 0408
 (D) Initial Shut-In 1110 Circ Sub _____ T-Pulled 0808
 (E) Second Initial Flow 73 Hourly Standby _____ T-Out 0947
 (F) Second Final Flow 91 Mileage 192.20 Comments note
 (G) Final Shut-In 1096 Sampler _____
 (H) Final Hydrostatic 1468 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 60 90 Extra Recorder _____ Sub Total 0
 Final Shut-In _____ Day Standby _____ Total 1667.20
 _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 1667.20

Approved By _____ Our Representative [Signature]

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