



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
STE 300
Wichita Ks 67202-1216

ATTN: Scott Robinson, Chuc

Hobbs #3-2

2-11s-24w Trego

Start Date: 2014.04.13 @ 11:15:29

End Date: 2014.04.13 @ 19:39:53

Job Ticket #: 54099 DST #: 1

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

Printed: 2014.04.17 @ 16:01:47



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water
 STE 300
 Wichita Ks 67202-1216
 ATTN: Scott Robinson, Chuc

2-11s-24w Trego

Hobbs #3-2

Job Ticket: 54099

DST#: 1

Test Start: 2014.04.13 @ 11:15:29

GENERAL INFORMATION:

Formation: **LKC B-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:55:09
 Time Test Ended: 19:39:53
 Interval: **3698.00 ft (KB) To 3735.00 ft (KB) (TVD)**
 Total Depth: 3735.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2311.00 ft (KB)
 2306.00 ft (CF)
 KB to GR/CF: 5.00 ft

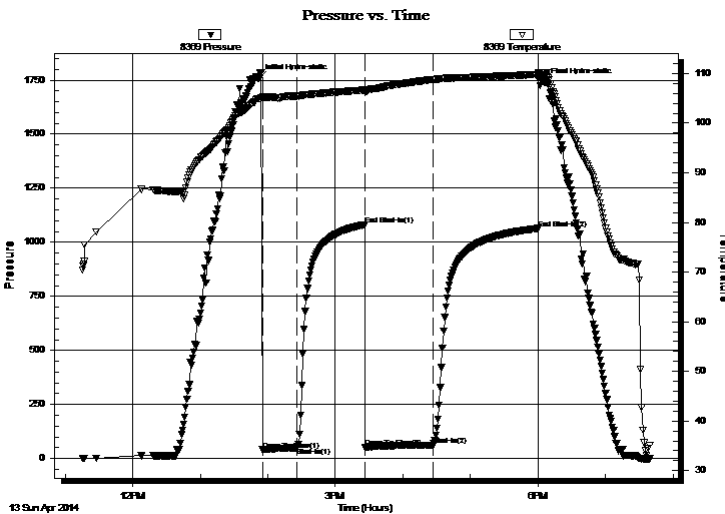
Serial #: 8369

Inside

Press@RunDepth: 62.96 psig @ 3703.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.13 End Date: 2014.04.13 Last Calib.: 2014.04.13
 Start Time: 11:15:29 End Time: 19:39:53 Time On Btm: 2014.04.13 @ 13:52:09
 Time Off Btm: 2014.04.13 @ 18:05:23

TEST COMMENT: 30-IFP-w k bl thru-out
 60-ISIP-no bl bk
 60--FFP-surface bl
 90-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.84	104.96	Initial Hydro-static
3	40.77	104.96	Open To Flow (1)
34	50.98	105.44	Shut-In(1)
94	1081.11	106.67	End Shut-In(1)
94	52.43	106.28	Open To Flow (2)
155	62.96	108.81	Shut-In(2)
248	1064.03	109.82	End Shut-In(2)
254	1739.41	109.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	SOCM 2%O98%M	0.39

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 54099

DST#: 1

Test Start: 2014.04.13 @ 11:15:29

Tool Information

Drill Pipe:	Length: 3549.00 ft	Diameter: 3.80 inches	Volume: 49.78 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: 25000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.52 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3698.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	66.00 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			3670.00	
Shut In Tool	5.00			3675.00	
Hydraulic tool	5.00			3680.00	
Jars	5.00			3685.00	
Safety Joint	3.00			3688.00	
Packer	5.00			3693.00	29.00 Bottom Of Top Packer
Packer	5.00			3698.00	
Stubb	1.00			3699.00	
Perforations	4.00			3703.00	
Recorder	0.00	8369	Inside	3703.00	
Recorder	0.00	8700	Outside	3703.00	
Perforations	29.00			3732.00	
Bullnose	3.00			3735.00	37.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 54099

DST#: 1

Test Start: 2014.04.13 @ 11:15:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 5.94 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	SOCM 2% O98%M	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:

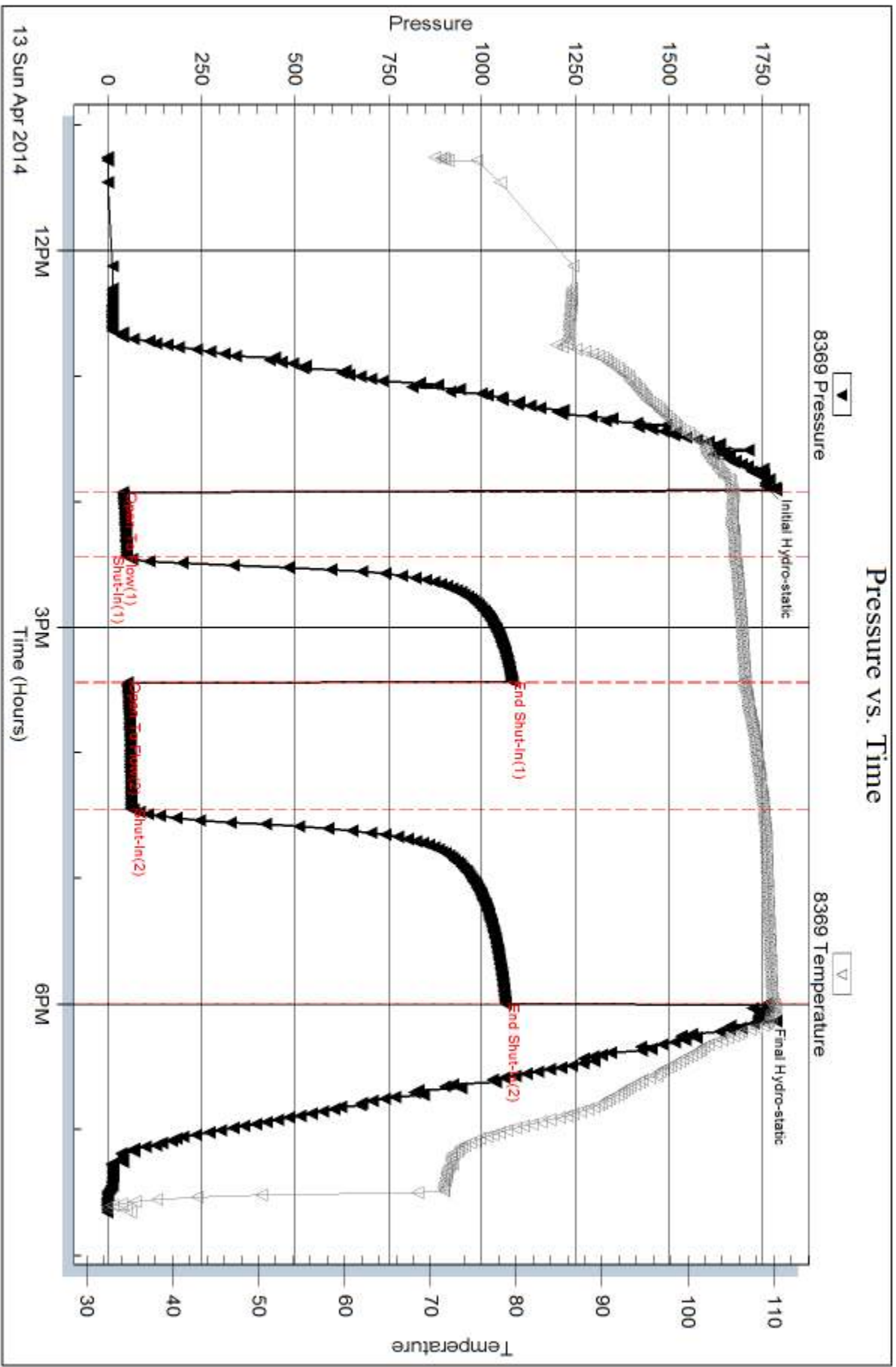
Serial #: 8369

Inside

Murfin Drilling Co Inc

Hobbs #3-2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54099

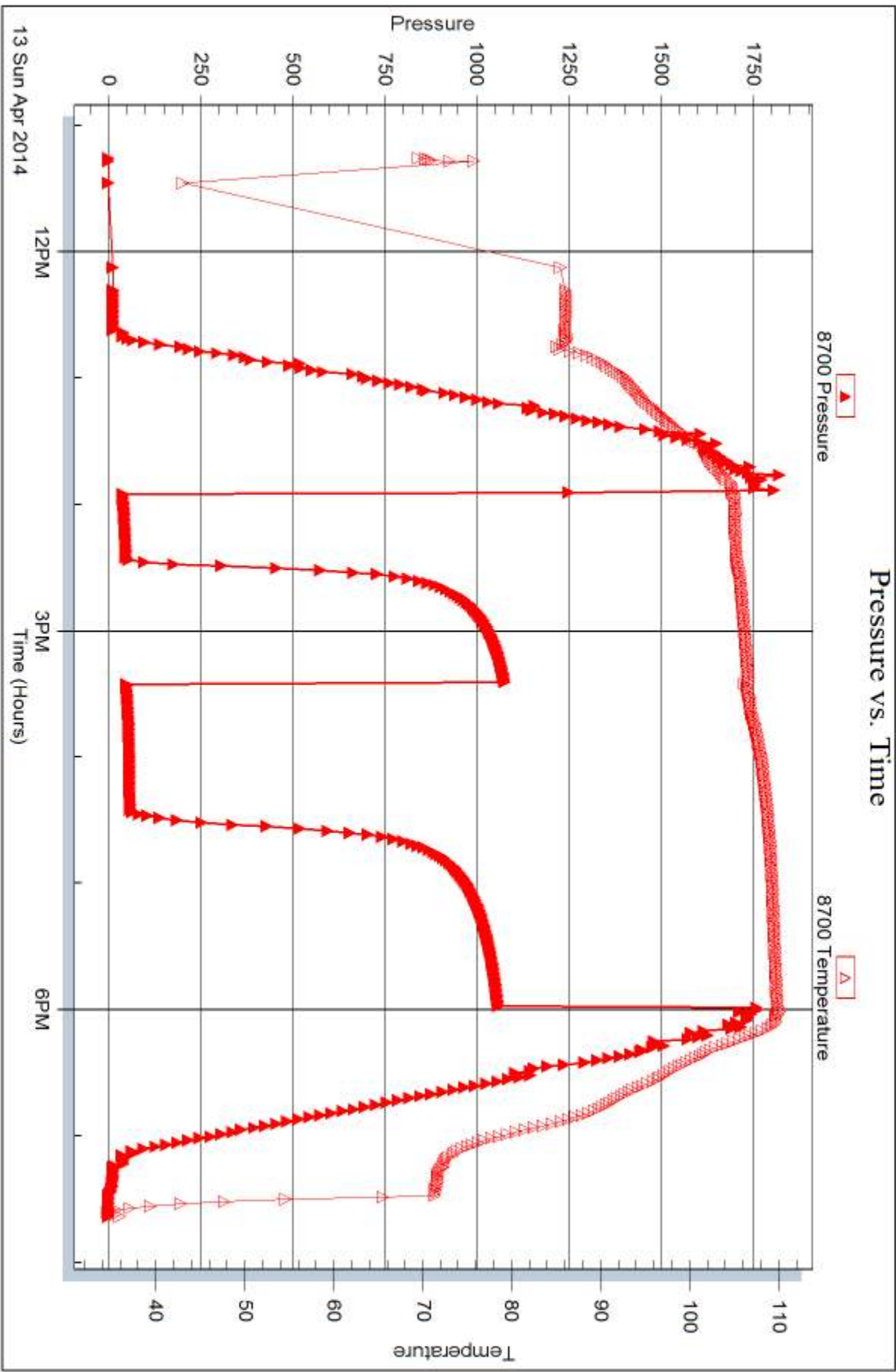
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Serial #: 8700

Outside Murfin Drilling Co Inc

Hobbs #3-2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54099

Printed: 2014.04.17 @ 16:01:49



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
STE 300
Wichita Ks 67202-1216

ATTN: Scott Robinson, Chuc

Hobbs #3-2

2-11s-24w Trego

Start Date: 2014.04.14 @ 16:15:18

End Date: 2014.04.14 @ 23:11:42

Job Ticket #: 54100 DST #: 2

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

Printed: 2014.04.17 @ 16:01:24

Murfin Drilling Co Inc
2-11s-24w Trego
Hobbs #3-2
DST # 2
LKC E-F
2014.04.14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water
 STE 300
 Wichita Ks 67202-1216
 ATTN: Scott Robinson, Chuc

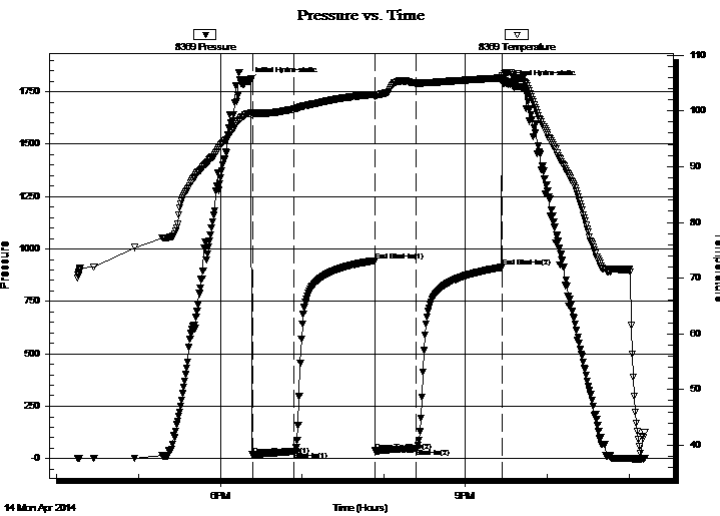
2-11s-24w Trego
Hobbs #3-2
 Job Ticket: 54100 **DST#: 2**
 Test Start: 2014.04.14 @ 16:15:18

GENERAL INFORMATION:

Formation: **LKC E-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:23:28
 Time Test Ended: 23:11:42
 Interval: **3738.00 ft (KB) To 3774.00 ft (KB) (TVD)**
 Total Depth: 3774.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2311.00 ft (KB)
 2306.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8369 **Inside**
 Press@RunDepth: 48.34 psig @ 3742.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.14 End Date: 2014.04.14 Last Calib.: 2014.04.14
 Start Time: 16:15:18 End Time: 23:11:42 Time On Btm: 2014.04.14 @ 18:20:58
 Time Off Btm: 2014.04.14 @ 21:31:27

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" bl
 60-ISIP-no bl bk
 30-FFP-no bl
 60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1799.45	99.50	Initial Hydro-static
3	18.67	99.30	Open To Flow (1)
34	34.63	100.31	Shut-In(1)
93	944.19	102.98	End Shut-In(1)
93	37.34	102.51	Open To Flow (2)
123	48.34	104.97	Shut-In(2)
186	912.41	105.90	End Shut-In(2)
191	1785.37	106.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud	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 Co Inc

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 54100

DST#: 2

Test Start: 2014.04.14 @ 16:15:18

Tool Information

Drill Pipe:	Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 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: 25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3738.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	65.00 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			3710.00	
Shut In Tool	5.00			3715.00	
Hydraulic tool	5.00			3720.00	
Jars	5.00			3725.00	
Safety Joint	3.00			3728.00	
Packer	5.00			3733.00	29.00 Bottom Of Top Packer
Packer	5.00			3738.00	
Stubb	1.00			3739.00	
Perforations	3.00			3742.00	
Recorder	0.00	8369	Inside	3742.00	
Recorder	0.00	8700	Outside	3742.00	
Perforations	29.00			3771.00	
Bullnose	3.00			3774.00	36.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 54100

DST#: 2

Test Start: 2014.04.14 @ 16:15:18

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 5.97 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

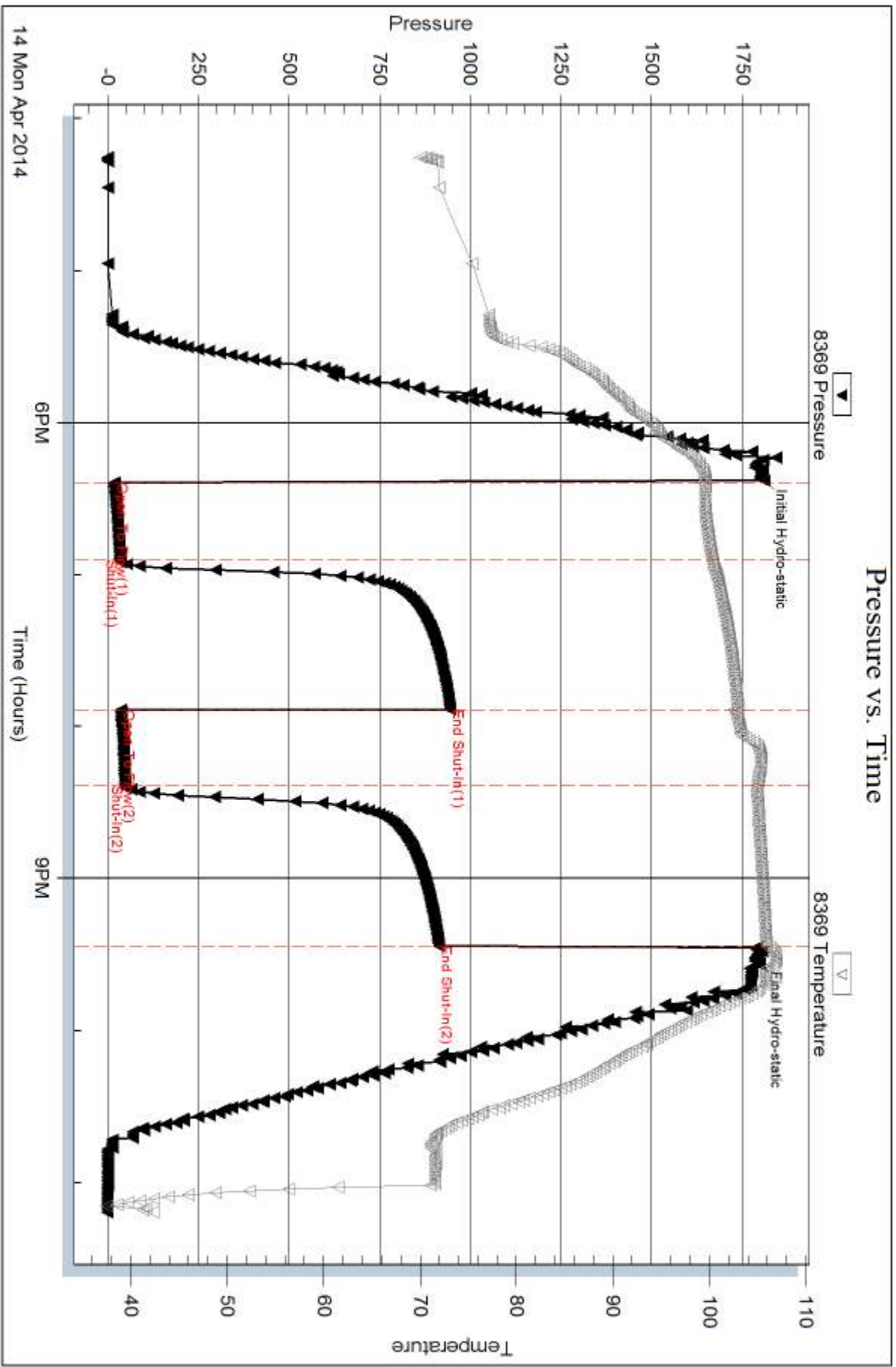
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

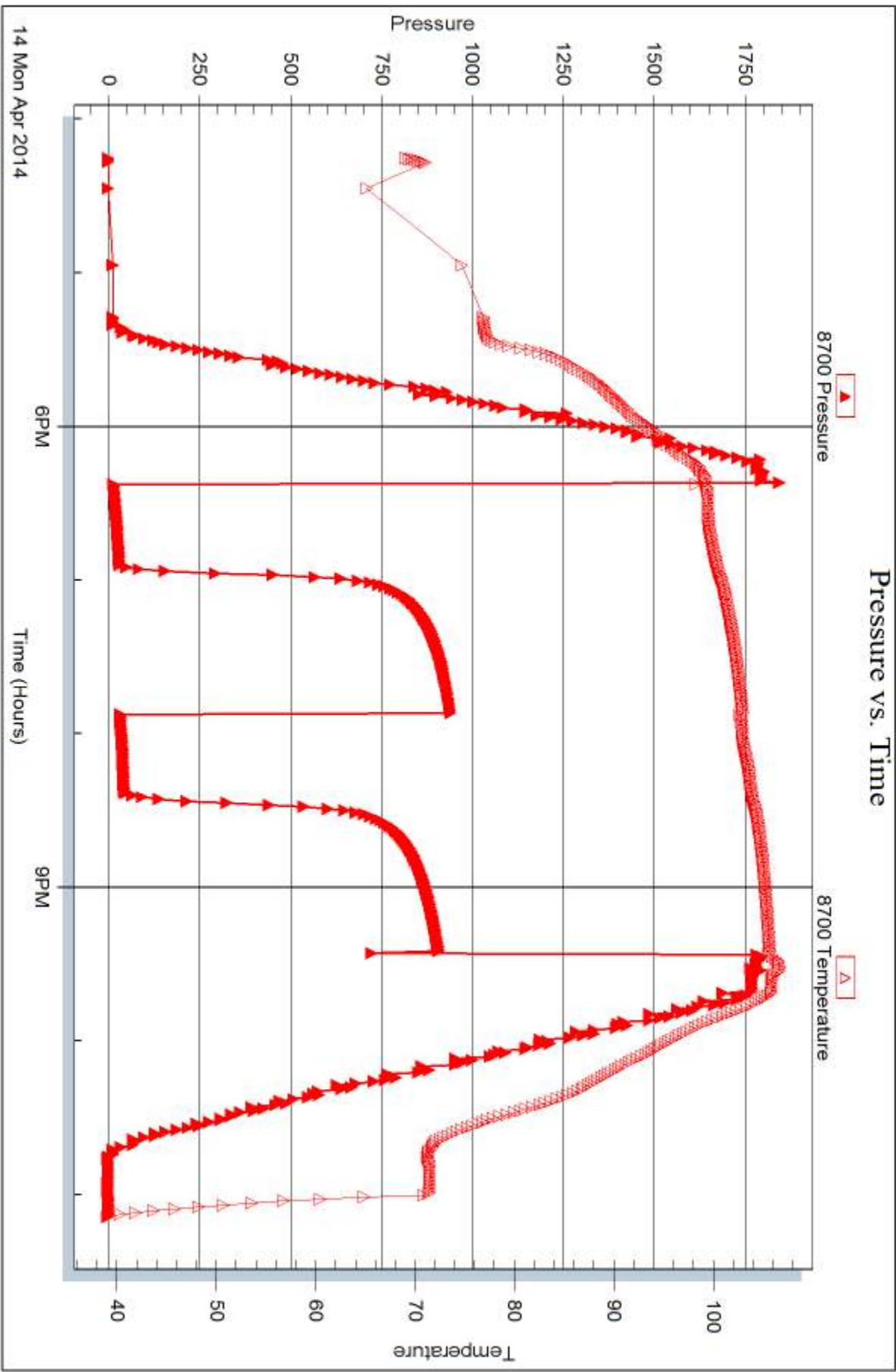


14 Mon Apr 2014

6PM

Time (Hours)

9PM





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
STE 300
Wichita Ks 67202-1216

ATTN: Scott Robinson, Chuc

Hobbs #3-2

2-11s-24w Trego

Start Date: 2014.04.15 @ 15:00:16

End Date: 2014.04.15 @ 23:04:10

Job Ticket #: 55326 DST #: 3

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

Printed: 2014.04.17 @ 16:00:28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

2-11s-24w Trego

Hobbs #3-2

Job Ticket: 55326

DST#: 3

Test Start: 2014.04.15 @ 15:00:16

GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:10:26

Time Test Ended: 23:04:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3798.00 ft (KB) To 3915.00 ft (KB) (TVD)

Reference Elevations: 2311.00 ft (KB)

Total Depth: 3915.00 ft (KB) (TVD)

2306.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8369 Inside

Press@RunDepth: 67.48 psig @ 3802.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.15 End Date: 2014.04.15

Last Calib.: 2014.04.15

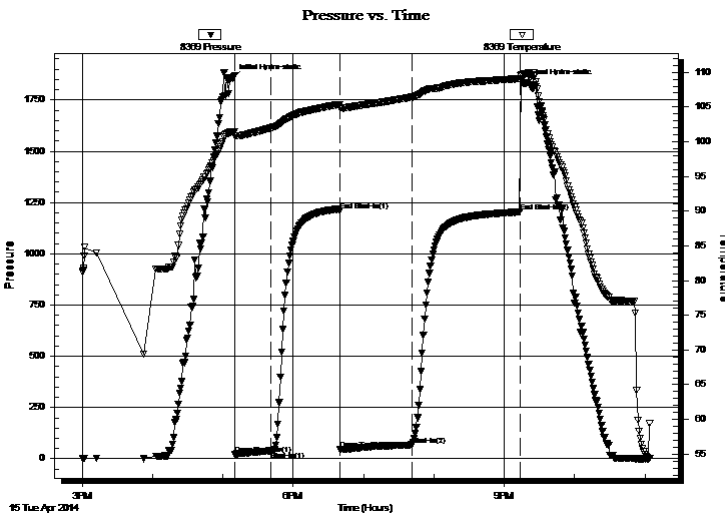
Start Time: 15:00:16 End Time: 23:04:10

Time On Btm: 2014.04.15 @ 17:07:56

Time Off Btm: 2014.04.15 @ 21:16:55

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 1" bl
60-ISIP-no bl
60-FFP-w k bl thru-out , surface bl
90-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.75	101.40	Initial Hydro-static
3	22.48	100.86	Open To Flow (1)
33	38.09	101.98	Shut-In(1)
92	1210.36	105.36	End Shut-In(1)
92	44.55	104.86	Open To Flow (2)
153	67.48	106.40	Shut-In(2)
246	1203.22	109.08	End Shut-In(2)
249	1829.12	109.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	SOCM 1%O99%M	0.39

* 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

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 55326

DST#: 3

Test Start: 2014.04.15 @ 15:00:16

Tool Information

Drill Pipe:	Length: 3639.00 ft	Diameter: 3.80 inches	Volume: 51.05 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: 25000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 51.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3798.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	117.00 ft			
Tool Length:	146.00 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			3770.00	
Shut In Tool	5.00			3775.00	
Hydraulic tool	5.00			3780.00	
Jars	5.00			3785.00	
Safety Joint	3.00			3788.00	
Packer	5.00			3793.00	29.00 Bottom Of Top Packer
Packer	5.00			3798.00	
Stubb	1.00			3799.00	
Perforations	3.00			3802.00	
Recorder	0.00	8369	Inside	3802.00	
Recorder	0.00	8700	Outside	3802.00	
Blank Spacing	95.00			3897.00	
Perforations	15.00			3912.00	
Bullnose	3.00			3915.00	117.00 Bottom Packers & Anchor

Total Tool Length: 146.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 55326

DST#: 3

Test Start: 2014.04.15 @ 15:00:16

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 5.99 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	SOCM 1%O99%M	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

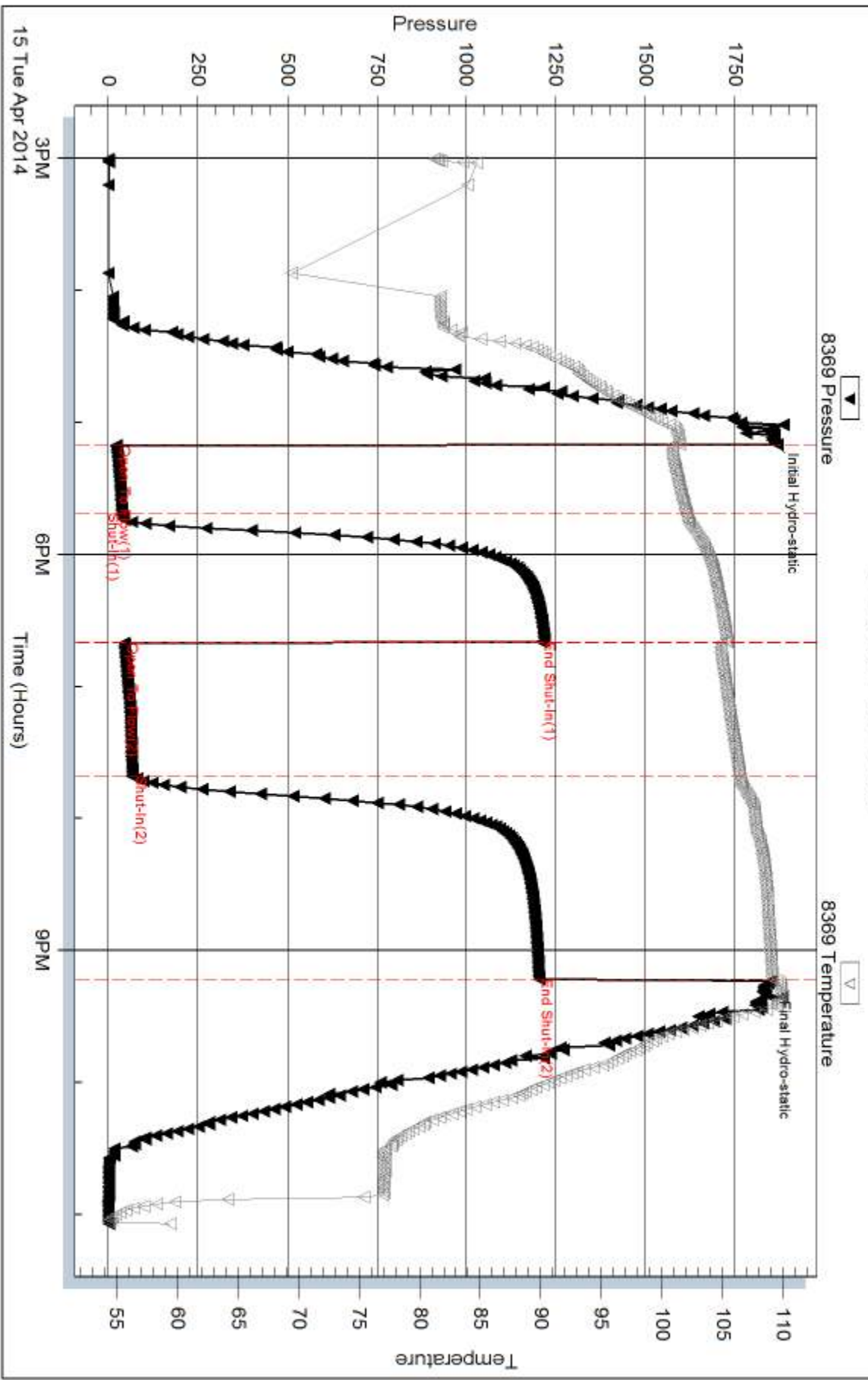
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

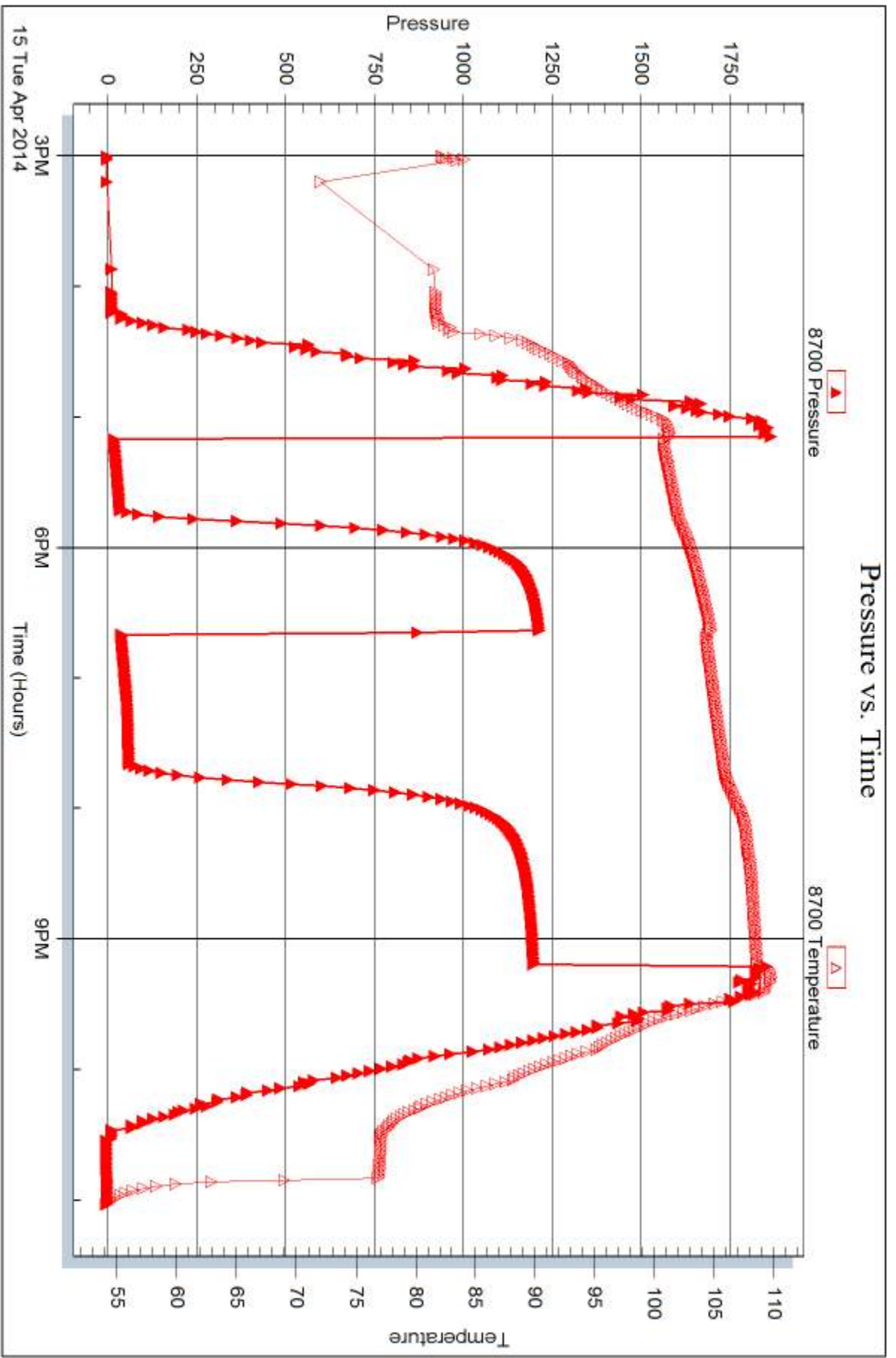


Serial #: 8700

Outside Murfin Drilling Co Inc

Hobbs #3-2

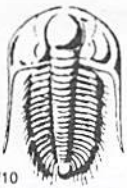
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 55326

Printed: 2014.04.17 @ 16:00:31



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54099

Well Name & No. Hobbs # 3-2 Test No. 1 Date 4-13-14
 Company Murfin Drilling Co Inc Elevation 2311 KB 2306 GL
 Address 250 N. WATER, STE 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Chuck Schmalz Rig Murfin rig 24
 Location: Sec. 2 Twp. 11^s Rge. 24^w Co. _____ State Ks

Interval Tested 3698-3735 Zone Tested LKC B-0
 Anchor Length 37 Drill Pipe Run 3549 Mud Wt. 8.7
 Top Packer Depth 3693 Drill Collars Run 150 Vis 52
 Bottom Packer Depth 3698 Wt. Pipe Run - WL 6
 Total Depth 3735 Chlorides 3000 ppm System LCM 3#

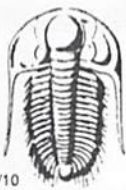
Blow Description IFP - Weak Blow Then-out
ISTP - NO Blow
FFP - SURFACE Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>SOCM</u>		<u>2</u>		<u>98</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 80 BHT 109 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 1756 Test 1150 T-On Location 0920
 (B) First Initial Flow 40 Jars 250 T-Started 1115
 (C) First Final Flow 50 Safety Joint 75 T-Open 1355
 (D) Initial Shut-In 1081 Circ Sub T-Pulled 1755
 (E) Second Initial Flow 52 Hourly Standby T-Out 1939
 (F) Second Final Flow 62 Mileage 95 RT 147.25 Comments Slid Tool Approx 10' To Bottom
 (G) Final Shut-In 1064 Sampler Ruined Shale Packer
 (H) Final Hydrostatic 1739 Straddle Ruined Packer
 Shale Packer Extra Copies
 Extra Packer Extra Recorder
 Extra Recorder Sub Total 0
 Day Standby Total 1622.25
 Accessibility MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1622.25

Approved By [Signature] Our Representative Ray Schwager Thank you
 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. 54100

Well Name & No. Hobbs #3-2 Test No. 2 Date 4-14-14
 Company Murfin Drilling Co Inc Elevation 2311 KB 2306 GL
 Address 250 N. WATER, STE 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Chuck Schmalz Rig Murfin rig 24
 Location: Sec. 2 Twp. 11^s Rge. 24^w Co. Trego State Ko

Interval Tested 3738-3774 Zone Tested LKC E-F
 Anchor Length 36 Drill Pipe Run 3643 Mud Wt. 9
 Top Packer Depth 3733 Drill Collars Run 90 Vis 57
 Bottom Packer Depth 3738 Wt. Pipe Run - WL 6
 Total Depth 3774 Chlorides 5000 ppm System LCM 3#

Blow Description TFP - Weak Blow then-out 1/4" Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Mud</u>				

Rec Total 60 BHT 106 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1799 Test 1150 T-On Location 1510
 (B) First Initial Flow 18 Jars 250 T-Started 1615
 (C) First Final Flow 34 Safety Joint 75 T-Open 1825
 (D) Initial Shut-In 944 Circ Sub _____ T-Pulled 2125
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 2311
 (F) Second Final Flow 48 Mileage 95RT 147.25
 (G) Final Shut-In 912 Sampler _____
 (H) Final Hydrostatic 1785 Straddle _____

Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1622.25
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60

Sub Total 1622.25

Approved By [Signature] Our Representative Ray Schwager Thank you

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. 55326

Well Name & No. Hobbs #3-2 Test No. 3 Date 4-15-14
 Company Murfin Drilling Co, Inc Elevation 2311 KB 2306 GL
 Address 250 N. WATER, STE 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Chuck Schmalte Rig Murfin rig 24
 Location: Sec. 2 Twp. 11^s Rge. 24^w Co. Trego State Ks

Interval Tested 3798-3915 Zone Tested LKC H-L
 Anchor Length 117 Drill Pipe Run 3639 Mud Wt. 8.9
 Top Packer Depth 3793 Drill Collars Run 90 Vis 54
 Bottom Packer Depth 3798 Wt. Pipe Run — WL 6
 Total Depth 3915 Chlorides 5600 ppm System LCM 3#
 Blow Description IFP - WEAK Blow thru-out 1/4" to 1" Blow
ISTP - NO Blow
FFP - WEAK Blow thru-out surface Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>50CM</u>		<u>1</u>		<u>99</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 80 BHT 109 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>1852</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1405</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1500</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1655</u>
(D) Initial Shut-In <u>1210</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2055</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2304</u>
(F) Second Final Flow <u>67</u>	<input checked="" type="checkbox"/> Mileage <u>95RT</u> 147.25	Comments
(G) Final Shut-In <u>1203</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1829</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1622.25</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1622.25</u>	

Approved By [Signature] Our Representative Ray Schwager Thank you

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