



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita, Ks 67202

ATTN: Bob Stolzle

Rex 1-28

28-4s-31w Rawlins, Ks

Start Date: 2014.04.13 @ 02:45:15

End Date: 2014.04.13 @ 11:20:15

Job Ticket #: 55737 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.19 @ 11:07:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company
 250 N Water Ste 300
 Wichita, Ks 67202
 ATTN: Bob Stolzle

28-4s-31w Rawlins, Ks
Rex 1-28
 Job Ticket: 55737 **DST#: 1**
 Test Start: 2014.04.13 @ 02:45:15

GENERAL INFORMATION:

Formation: **LKC A-B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:16:15
 Time Test Ended: 11:20:15
 Interval: **3918.00 ft (KB) To 4010.00 ft (KB) (TVD)**
 Total Depth: 4010.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 2955.00 ft (KB)
 2950.00 ft (CF)
 KB to GR/CF: 5.00 ft

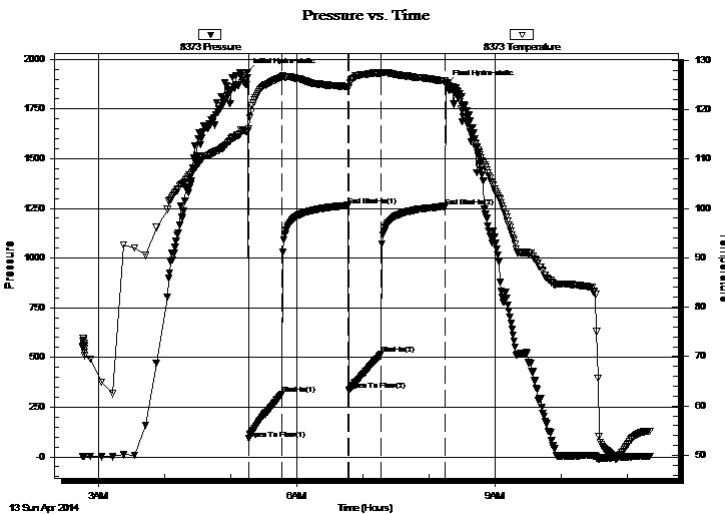
Serial #: 8373

Inside

Press@RunDepth: 515.71 psig @ 3919.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.13 End Date: 2014.04.13 Last Calib.: 2014.04.13
 Start Time: 02:45:20 End Time: 11:20:15 Time On Btm: 2014.04.13 @ 05:14:45
 Time Off Btm: 2014.04.13 @ 08:15:15

TEST COMMENT: IF: BOB in 4 min.
 IS: No return.
 FF: BOB in 6 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1933.33	115.61	Initial Hydro-static
2	91.00	116.17	Open To Flow (1)
32	315.92	126.58	Shut-In(1)
92	1265.40	124.62	End Shut-In(1)
93	334.42	124.50	Open To Flow (2)
122	515.71	127.32	Shut-In(2)
180	1260.12	125.81	End Shut-In(2)
181	1870.33	125.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	water 100%w	8.13
248.00	mcw 90%w 10%m	3.48
248.00	mw 50%w 50%m	3.48

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

28-4s-31w Rawlins, Ks

250 N Water Ste 300
Wichita, Ks 67202

Rex 1-28

Job Ticket: 55737

DST#: 1

ATTN: Bob Stolzle

Test Start: 2014.04.13 @ 02:45:15

Tool Information

Drill Pipe:	Length: 3859.00 ft	Diameter: 3.80 inches	Volume: 54.13 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 62.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 54.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3918.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	92.00 ft				
Tool Length:	120.00 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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Stubb	1.00			3891.00	
Shut In Tool	5.00			3896.00	
Hydraulic tool	5.00			3901.00	
Jars	5.00			3906.00	
Safety Joint	3.00			3909.00	
Packer	5.00			3914.00	28.00 Bottom Of Top Packer
Packer	4.00			3918.00	
Stubb	1.00			3919.00	
Recorder	0.00	8373	Inside	3919.00	
Recorder	0.00	8356	Outside	3919.00	
Perforations	20.00			3939.00	
Change Over Sub	1.00			3940.00	
Drill Pipe	64.00			4004.00	
Change Over Sub	1.00			4005.00	
Bullnose	5.00			4010.00	92.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

28-4s-31w Rawlins, Ks

250 N Water Ste 300
Wichita, Ks 67202

Rex 1-28

Job Ticket: 55737

DST#: 1

ATTN: Bob Stolzle

Test Start: 2014.04.13 @ 02:45:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

125000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	water 100%w	8.132
248.00	mcw 90%w 10%m	3.479
248.00	mw 50%w 50%m	3.479

Total Length: 1116.00 ft Total Volume: 15.090 bbl

Num Fluid Samples: 0

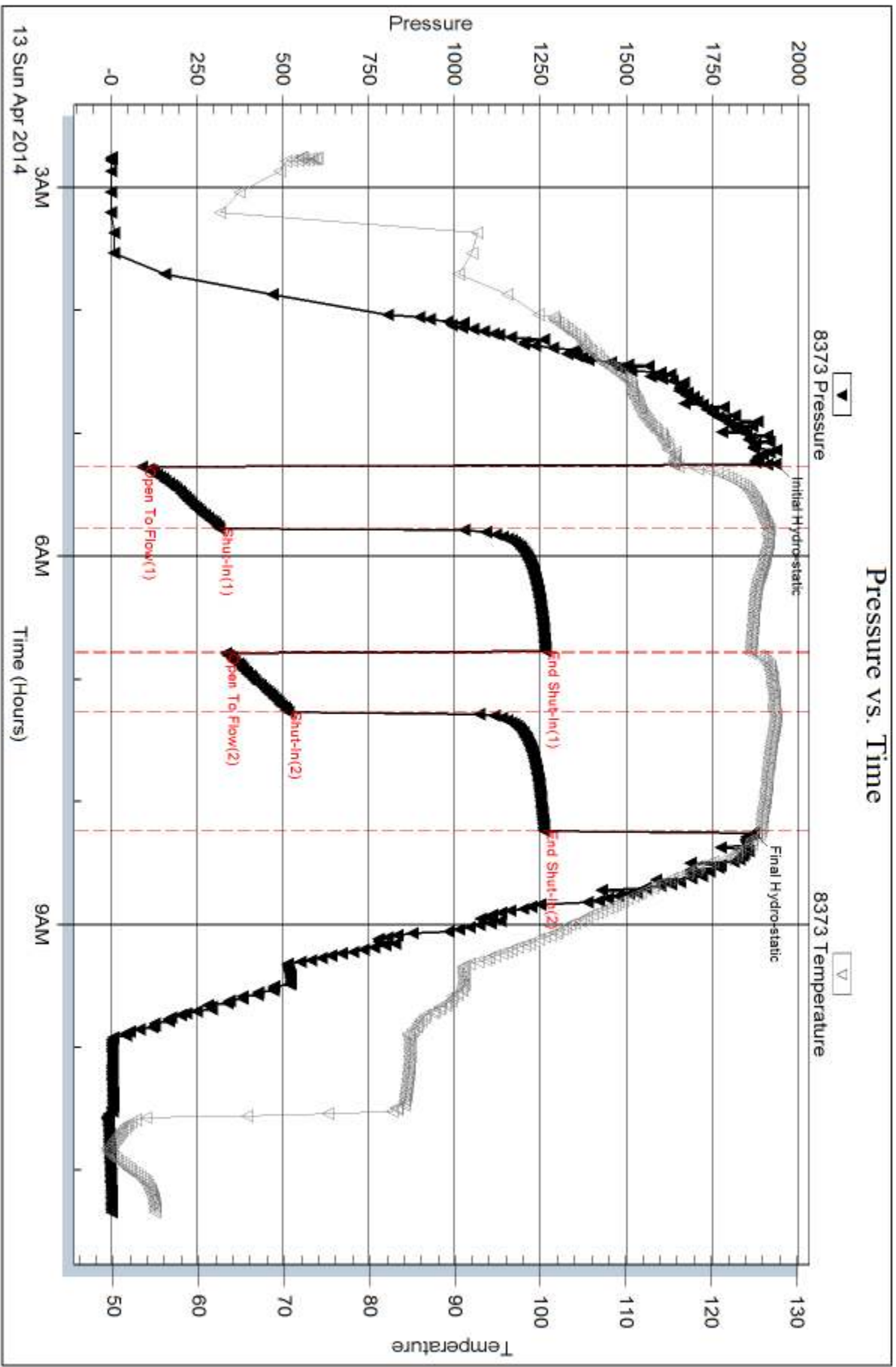
Num Gas Bombs: 0

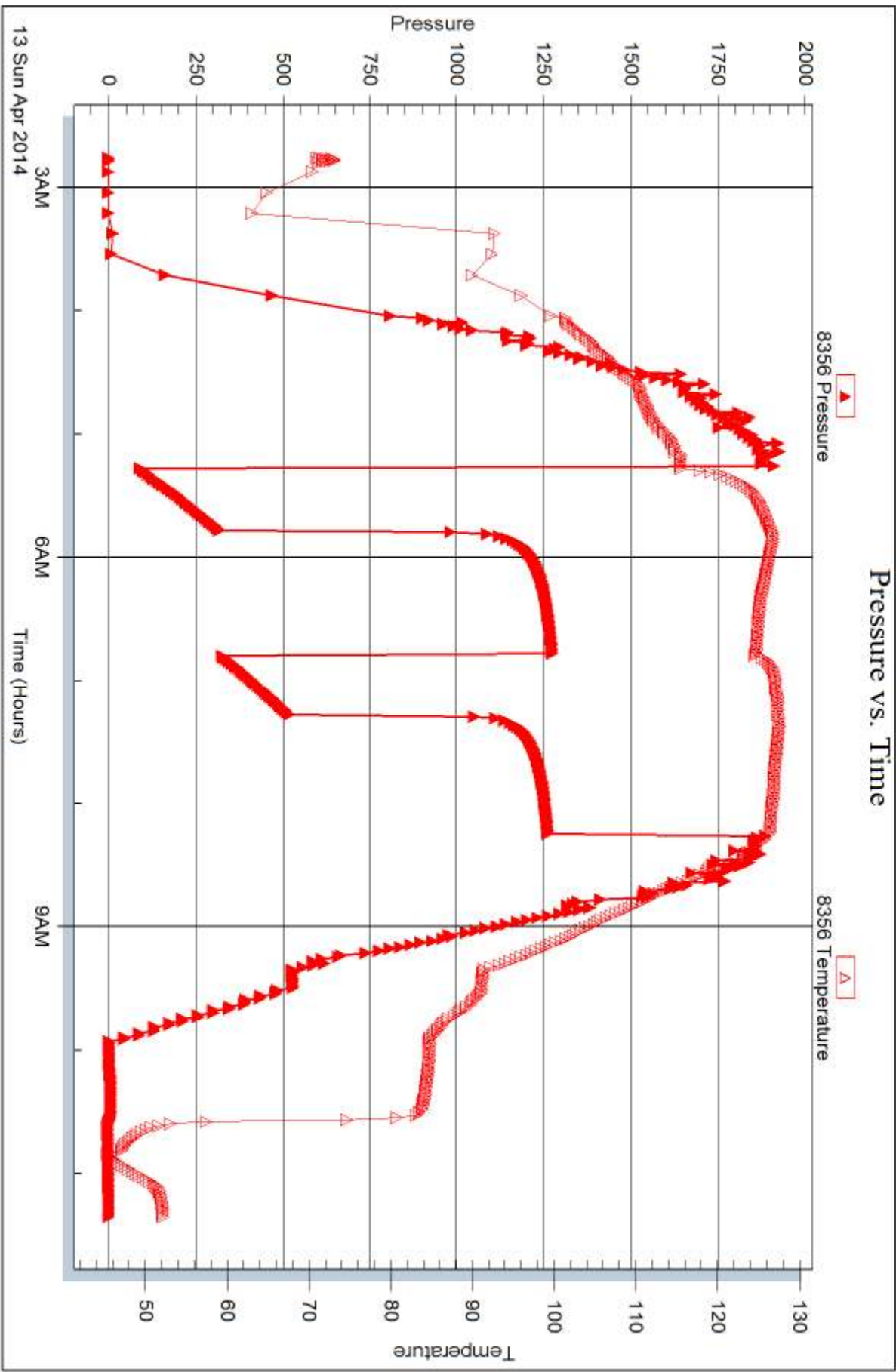
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .12@44=125000







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita, Ks 67202

ATTN: Bob Stolzle

Rex 1-28

28-4s-31w Rawlins, Ks

Start Date: 2014.04.13 @ 21:26:00

End Date: 2014.04.14 @ 06:46:00

Job Ticket #: 56975 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.19 @ 11:07:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

28-4s-31w Rawlins, Ks

250 N Water Ste 300
Wichita, Ks 67202

Rex 1-28

Job Ticket: 56975

DST#: 2

ATTN: Bob Stolzle

Test Start: 2014.04.13 @ 21:26:00

GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:56:30

Time Test Ended: 06:46:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4022.00 ft (KB) To 4060.00 ft (KB) (TVD)

Reference Elevations: 2955.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

2950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 108.63 psig @ 4023.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.13

End Date:

2014.04.14

Last Calib.: 2014.04.14

Start Time: 21:27:00

End Time:

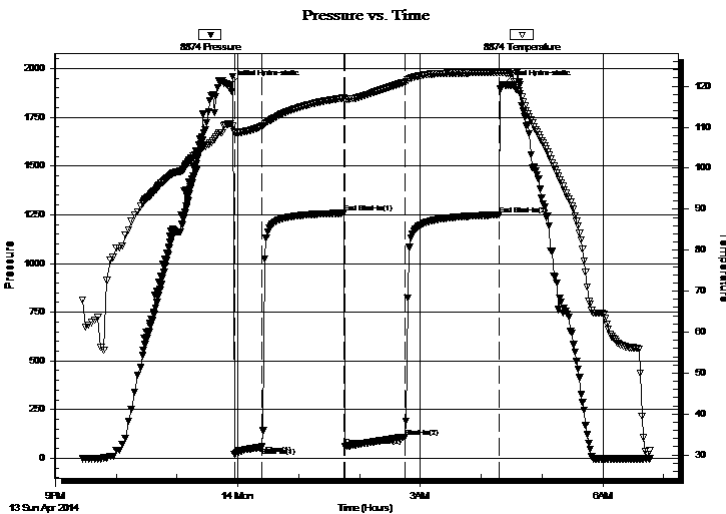
06:46:00

Time On Btm: 2014.04.13 @ 23:53:00

Time Off Btm: 2014.04.14 @ 04:22:00

TEST COMMENT: 30 - IF- 1/4" Blow built to 6"
60 - IS- No Return
60 - FF- Blow started at 2 min. Built to BoB in 50 min.
90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1917.63	110.83	Initial Hydro-static
4	19.42	108.79	Open To Flow (1)
31	57.59	110.25	Shut-In(1)
112	1258.55	117.16	End Shut-In(1)
113	60.61	116.85	Open To Flow (2)
172	108.63	120.95	Shut-In(2)
265	1249.53	123.26	End Shut-In(2)
269	1917.48	123.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW 10M 90W	1.18
72.00	WM 50M 50W	1.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

28-4s-31w Rawlins, Ks

250 N Water Ste 300
Wichita, Ks 67202

Rex 1-28

Job Ticket: 56975

DST#: 2

ATTN: Bob Stolzle

Test Start: 2014.04.13 @ 21:26:00

Tool Information

Drill Pipe:	Length: 3960.00 ft	Diameter: 3.80 inches	Volume: 55.55 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: 61.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 55.85 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4022.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	66.00 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			3995.00	
Shut In Tool	5.00			4000.00	
Hydraulic tool	5.00			4005.00	
Jars	5.00			4010.00	
Safety Joint	3.00			4013.00	
Packer	5.00			4018.00	28.00 Bottom Of Top Packer
Packer	4.00			4022.00	
Stubb	1.00			4023.00	
Recorder	0.00	8653	Outside	4023.00	
Recorder	0.00	8874	Inside	4023.00	
Perforations	1.00			4024.00	
Change Over Sub	1.00			4025.00	
Drill Pipe	31.00			4056.00	
Change Over Sub	1.00			4057.00	
Bullnose	3.00			4060.00	38.00 Bottom Packers & Anchor

Total Tool Length: 66.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

28-4s-31w Rawlins, Ks

250 N Water Ste 300
Wichita, Ks 67202

Rex 1-28

Job Ticket: 56975

DST#: 2

ATTN: Bob Stolzle

Test Start: 2014.04.13 @ 21:26:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	MW 10M 90W	1.184
72.00	WM 50M 50W	1.010

Total Length: 196.00 ft Total Volume: 2.194 bbl

Num Fluid Samples: 0

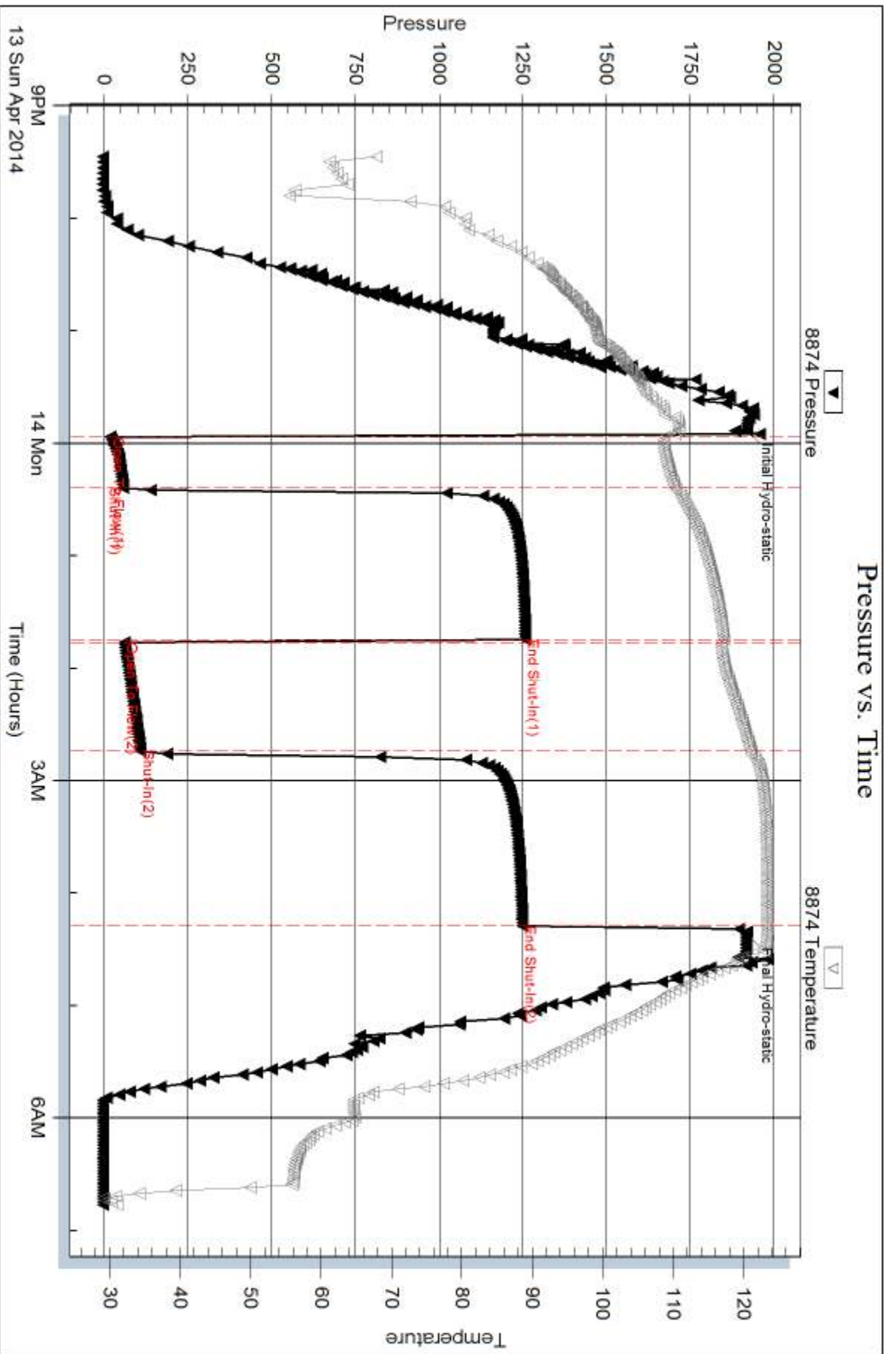
Num Gas Bombs: 0

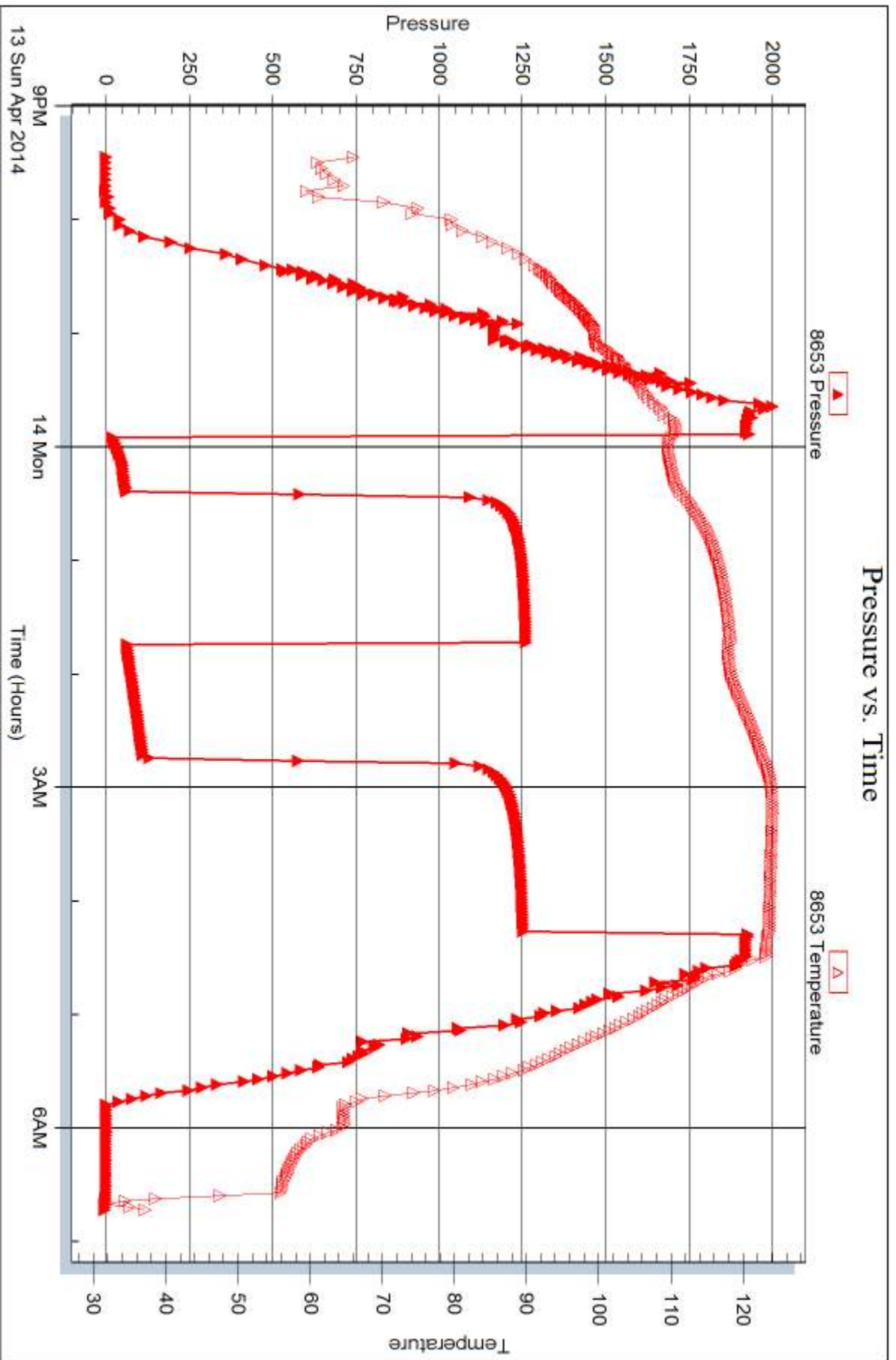
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15@41 deg = 85,000ppm







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita, Ks 67202

ATTN: Bob Stolzle

Rex 1-28

28-4s-31w Rawlins, Ks

Start Date: 2014.04.14 @ 21:30:00

End Date: 2014.04.15 @ 07:52:00

Job Ticket #: 56826 DST #: 3

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

Printed: 2014.04.19 @ 11:05:31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

28-4s-31w Rawlins, Ks

250 N Water Ste 300
Wichita, Ks 67202

Rex 1-28

Job Ticket: 56826

DST#: 3

ATTN: Bob Stolzle

Test Start: 2014.04.14 @ 21:30:00

GENERAL INFORMATION:

Formation: **LKC "G-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:50:30

Time Test Ended: 07:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4057.00 ft (KB) To 4170.00 ft (KB) (TVD)

Reference Elevations: 2955.00 ft (KB)

Total Depth: 4170.00 ft (KB) (TVD)

2950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 83.28 psig @ 4058.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.14

End Date:

2014.04.15

Last Calib.:

2014.04.15

Start Time: 21:31:00

End Time:

07:52:00

Time On Btm:

2014.04.15 @ 00:49:00

Time Off Btm:

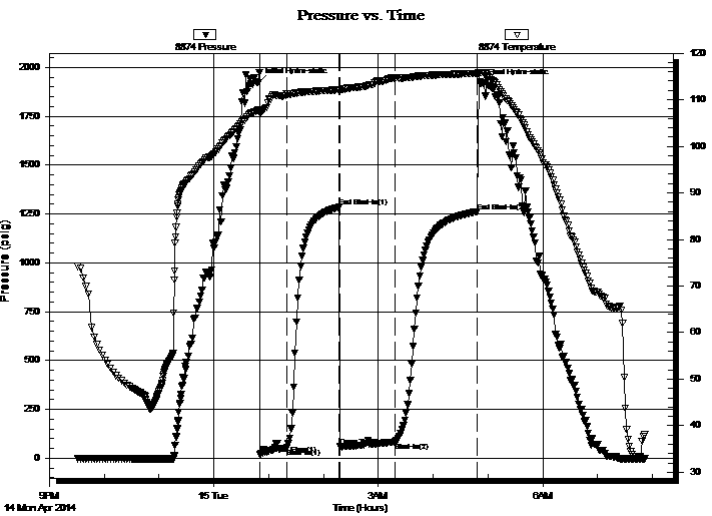
2014.04.15 @ 04:52:00

TEST COMMENT: 30 - IF- 3/4" Blow built to 5 1/4"

60 - IS- No Return

60 - FF- Surface Blow built to 9"

90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.92	107.79	Initial Hydro-static
2	21.09	107.17	Open To Flow (1)
31	51.98	111.17	Shut-In(1)
88	1284.55	112.14	End Shut-In(1)
90	58.33	112.01	Open To Flow (2)
150	83.28	114.73	Shut-In(2)
240	1262.70	115.68	End Shut-In(2)
243	1919.34	115.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 80M 20o	0.30
78.00	OCM 70M 30o	1.09
1.00	Free Oil 100o	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

28-4s-31w Rawlins, Ks

250 N Water Ste 300
Wichita, Ks 67202

Rex 1-28

Job Ticket: 56826

DST#: 3

ATTN: Bob Stolzle

Test Start: 2014.04.14 @ 21:30:00

Tool Information

Drill Pipe:	Length: 3993.00 ft	Diameter: 3.80 inches	Volume: 56.01 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: 61.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 56.31 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4057.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	113.00 ft				
Tool Length:	141.00 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			4030.00	
Shut In Tool	5.00			4035.00	
Hydraulic tool	5.00			4040.00	
Jars	5.00			4045.00	
Safety Joint	3.00			4048.00	
Packer	5.00			4053.00	28.00 Bottom Of Top Packer
Packer	4.00			4057.00	
Stubb	1.00			4058.00	
Recorder	0.00	8653	Outside	4058.00	
Recorder	0.00	8874	Inside	4058.00	
Perforations	11.00			4069.00	
Change Over Sub	1.00			4070.00	
Drill Pipe	94.00			4164.00	
Change Over Sub	1.00			4165.00	
Bullnose	5.00			4170.00	113.00 Bottom Packers & Anchor

Total Tool Length: 141.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

28-4s-31w Rawlins, Ks

250 N Water Ste 300
Wichita, Ks 67202

Rex 1-28

Job Ticket: 56826

DST#: 3

ATTN: Bob Stolzle

Test Start: 2014.04.14 @ 21:30:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 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
60.00	OCM 80M 20o	0.295
78.00	OCM 70M 30o	1.085
1.00	Free Oil 100o	0.014

Total Length: 139.00 ft

Total Volume: 1.394 bbl

Num Fluid Samples: 0

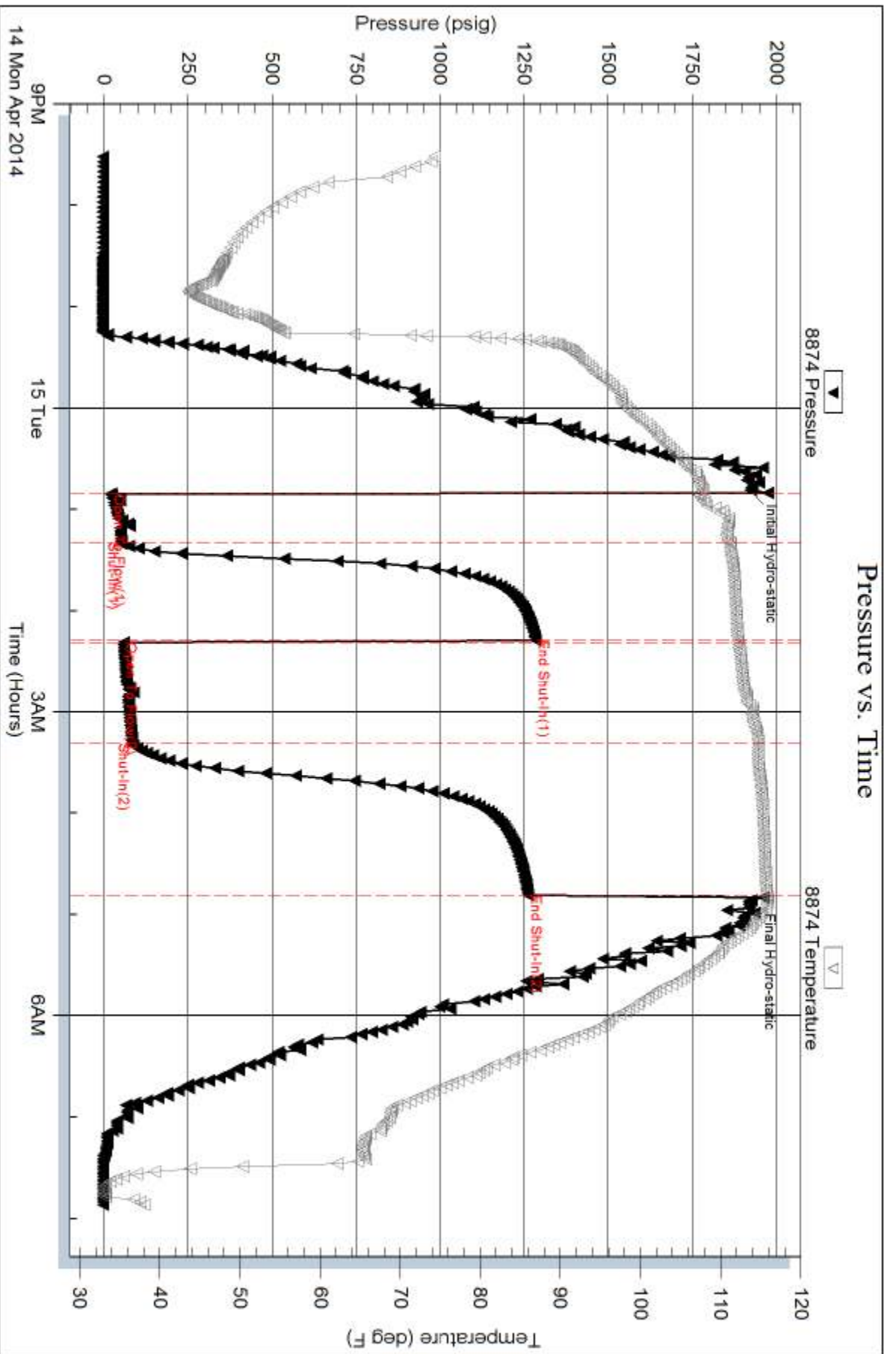
Num Gas Bombs: 0

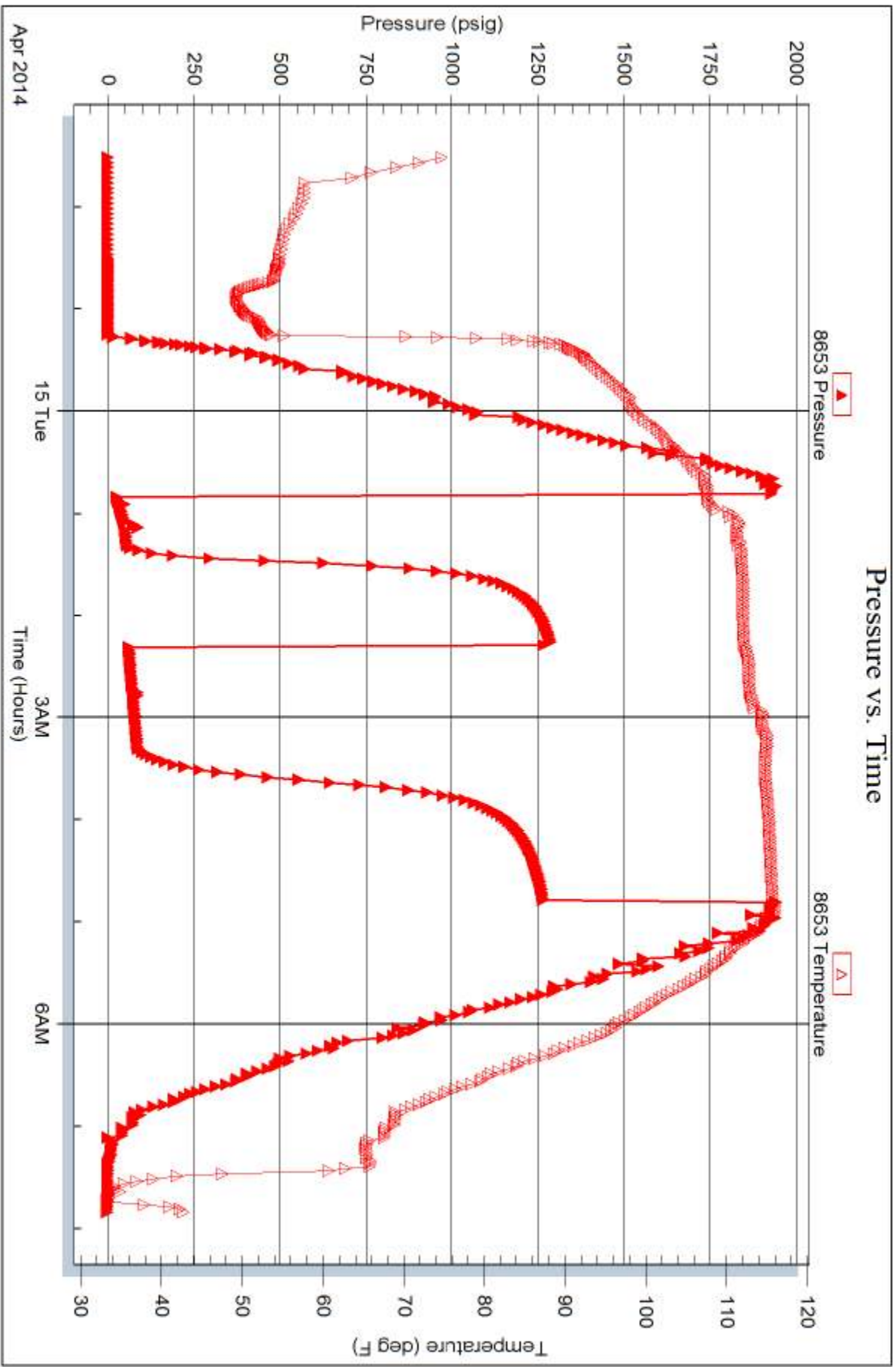
Serial #:

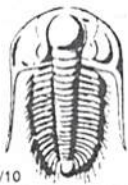
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55737

4/10

Well Name & No. Rex 1-28 Test No. 1 Date 4-13-14
 Company Murfin Drilling Co Elevation 2955 KB 2950 GL
 Address 250 N Water St 300 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolze Rig Murfin 7
 Location: Sec. 28 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 3918 4010 Zone Tested Lensing A-B
 Anchor Length 92 Drill Pipe Run 3859 Mud Wt. 9.0
 Top Packer Depth 3913 Drill Collars Run 62 Vis 47
 Bottom Packer Depth 3918 Wt. Pipe Run — WL 6.0
 Total Depth 4010 Chlorides 800 ppm System LCM 5

Blow Description IF: BOB in 4 min,
IS: No return,
FF: BOB in 6 min,
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>248</u>	<u>MW</u>			<u>50</u>	<u>50</u>
<u>248</u>	<u>MW</u>			<u>90</u>	<u>10</u>
<u>620</u>	<u>water</u>			<u>100</u>	

Rec Total 1116 BHT 125 Gravity — API RW .12 @ 44 °F Chlorides 125,000 ppm

(A) Initial Hydrostatic 1933 Test 1250 T-On Location 00:50
 (B) First Initial Flow 91 Jars 250 T-Started 2:45
 (C) First Final Flow 315 Safety Joint 75 T-Open 5:15
 (D) Initial Shut-In 1265 Circ Sub N/C T-Pulled 8:15
 (E) Second Initial Flow 334 Hourly Standby — T-Out 11:15
 (F) Second Final Flow 515 Mileage 190 - 83.70
 (G) Final Shut-In 1260 Sampler —
 (H) Final Hydrostatic 1870 Straddle —

Ruined Shale Packer —
 Shale Packer —
 Ruined Packer —
 Extra Packer —
 Extra Copies —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1658.70
 Sub Total 1658.70

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Approved By Robert Stolze, Agent Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56975

Well Name & No. Rex #1-28 Test No. 2 Date 4-13-14
 Company Murphy Drilling Co., Inc. Elevation 2955 KB 2950 GL
 Address 250 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolzie Rig Murphy #7
 Location: Sec. 28 Twp. 4S Rge. 31 W Co. Rawlins State KS

Interval Tested 4022-4060 Zone Tested LKC "F-6"
 Anchor Length 38' Drill Pipe Run 3960 Mud Wt. 9.1
 Top Packer Depth 4018 Drill Collars Run 61 Vis 58
 Bottom Packer Depth 4022 Wt. Pipe Run 0 WL 5.6
 Total Depth 4060 Chlorides 800 ppm System LCM 8#

Blow Description IF-1/4" Blow built to 6"
ISI- NO Return
FF-Surface Blow started at 2 min. Built to BoB @ 50 min.
FSI- NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>72</u>	<u>WM</u>		<u>50</u>	<u>50</u>	
<u>124</u>	<u>MW</u>		<u>90</u>	<u>10</u>	

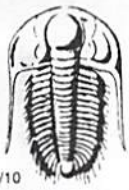
Rec Total 196' BHT 123 Gravity — API RW 15 @ 41 ° F Chlorides 85,000 ppm

(A) Initial Hydrostatic 1917 Test 1250 T-On Location 9:00 PM
 (B) First Initial Flow 19 Jars 250 T-Started 9:26 PM
 (C) First Final Flow 57 Safety Joint 75 T-Open 11:55 PM
 (D) Initial Shut-In 1258 Circ Sub _____ T-Pulled 3:55 AM
 (E) Second Initial Flow 60 Hourly Standby _____ T-Out 6:50 AM
 (F) Second Final Flow 108 Mileage 54 RT 83.70 Comments _____
 (G) Final Shut-In 1249 Sampler _____
 (H) Final Hydrostatic 1917 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30 Sub Total 0
 Initial Shut-In 60 Total 1658.70
 Final Flow 60 MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1658.70

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. 56826

Well Name & No. Rex #1-28 Test No. 3 Date 4-15-14
 Company Murfin Drilling Co, Inc Elevation 2955 KB 2950 GL
 Address 250 N Webster STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolze Rig Murfin #7
 Location: Sec. 28 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 4057-4170 Zone Tested LKC "G, H, J, K"
 Anchor Length 113' Drill Pipe Run 3993' Mud Wt. 8.8
 Top Packer Depth 4053 Drill Collars Run 61' Vis 47
 Bottom Packer Depth 4057 Wt. Pipe Run 0 WL 6.8
 Total Depth 4170 Chlorides 1,400 ppm System LCM 6#
 Blow Description IF-3/4" Blow built to 5 1/4"
ISI-NO Return
FF-Surface Blow built to 9"
FSI-NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free oil</u>	<u>100</u>			
<u>78</u>	<u>OCM</u>	<u>30</u>		<u>70</u>	
<u>60</u>	<u>OCM</u>	<u>10</u>		<u>80</u>	
<u>100</u>					

Rec Total 139 BHT 116 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1923</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:00 PM</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:30 PM</u>
(C) First Final Flow <u>51</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:50 AM</u>
(D) Initial Shut-In <u>1284</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:50 AM</u>
(E) Second Initial Flow <u>58</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>7:50 AM</u>
(F) Second Final Flow <u>83</u>	<input checked="" type="checkbox"/> Mileage <u>54 RT</u> 167.40	Comments <u>Was called to</u>
(G) Final Shut-In <u>1262</u>	<input type="checkbox"/> Sampler	<u>load tools 8:30 AM</u>
(H) Final Hydrostatic <u>1919</u>	<input type="checkbox"/> Straddle	<u>4-16-14</u>
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Day Standby <u>1d .75h</u>	Sub Total <u>800</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	Total <u>2542.40</u>
Final Flow <u>60</u>	Sub Total <u>1742.40</u>	MP/DST Disc't
Final Shut-In <u>90</u>		

Approved By _____ Our Representative

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