



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N Water STE 300
Wichita KS 67202 - 1216

ATTN: Tom Funk

Edwards #1-17

17-16s-32w Scott,KS

Start Date: 2012.08.26 @ 21:40:00

End Date: 2012.08.27 @ 04:46:45

Job Ticket #: 48881 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.07 @ 10:27:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

Job Ticket: 48881

DST#: 1

ATTN: Tom Funk

Test Start: 2012.08.26 @ 21:40:00

GENERAL INFORMATION:

Formation: **Kansas City " I - J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:01:45
 Time Test Ended: 04:46:45
 Interval: **4205.00 ft (KB) To 4262.00 ft (KB) (TVD)**
 Total Depth: 4262.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jace McKinney
 Unit No: 46
 Reference Elevations: 3013.00 ft (KB)
 3001.00 ft (CF)
 KB to GR/CF: 12.00 ft

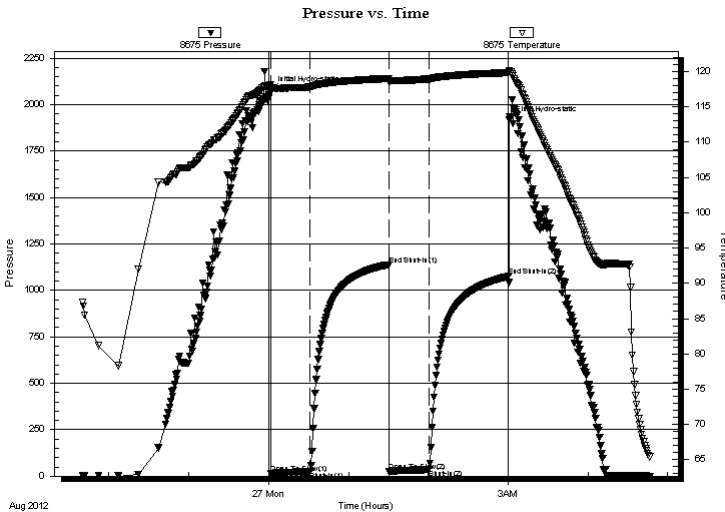
Serial #: 8675

Inside

Press @ Run Depth: 35.25 psig @ 4206.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.26 End Date: 2012.08.27 Last Calib.: 2012.08.27
 Start Time: 21:40:15 End Time: 04:46:45 Time On Btm: 2012.08.27 @ 00:01:30
 Time Off Btm: 2012.08.27 @ 03:00:45

TEST COMMENT: Built to 3/4", Died to 1/2" blow
 No return blow
 No blow
 No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2073.91	118.16	Initial Hydro-static
1	15.45	117.07	Open To Flow (1)
30	24.16	117.82	Shut-In(1)
89	1138.61	119.03	End Shut-In(1)
90	26.58	118.50	Open To Flow (2)
119	35.25	118.92	Shut-In(2)
179	1076.22	119.85	End Shut-In(2)
180	1915.90	120.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

Job Ticket: 48881

DST#: 1

ATTN: Tom Funk

Test Start: 2012.08.26 @ 21:40:00

GENERAL INFORMATION:

Formation: **Kansas City " I - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:01:45

Time Test Ended: 04:46:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 4205.00 ft (KB) To 4262.00 ft (KB) (TVD)

Reference Elevations: 3013.00 ft (KB)

Total Depth: 4262.00 ft (KB) (TVD)

3001.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8650 Outside

Press @ Run Depth: psig @ 4206.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.26 End Date: 2012.08.27

Last Calib.: 2012.08.27

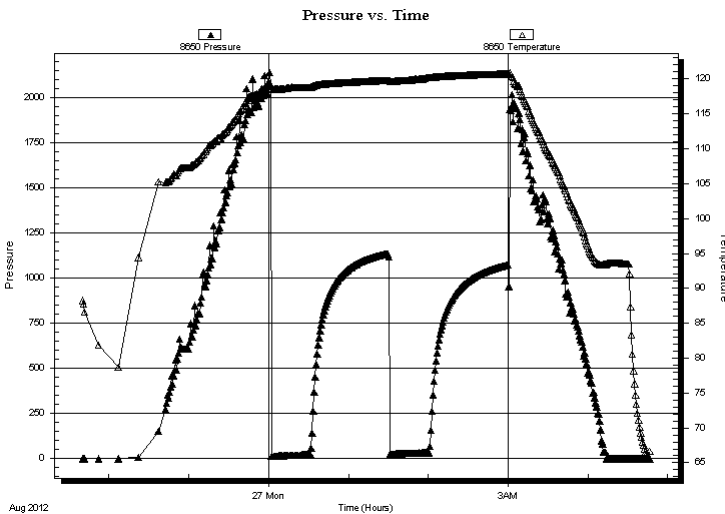
Start Time: 21:40:15 End Time: 04:46:30

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 3/4", Died to 1/2" blow
No return blow
No blow
No return blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

Job Ticket: 48881

DST#: 1

ATTN: Tom Funk

Test Start: 2012.08.26 @ 21:40:00

Tool Information

Drill Pipe:	Length: 3924.00 ft	Diameter: 3.80 inches	Volume: 55.04 bbl	Tool Weight: 1500.00 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: 266.46 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.46 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4205.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	77.00 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			4186.00	
Shut In Tool	5.00			4191.00	
Hydraulic tool	5.00			4196.00	
Packer	5.00			4201.00	20.00 Bottom Of Top Packer
Packer	4.00			4205.00	
Stubb	1.00			4206.00	
Recorder	0.00	8675	Inside	4206.00	
Recorder	0.00	8650	Outside	4206.00	
Perforations	20.00			4226.00	
Change Over Sub	1.00			4227.00	
Drill Pipe	31.00			4258.00	
Change Over Sub	1.00			4259.00	
Bullnose	3.00			4262.00	57.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

Job Ticket: 48881

DST#: 1

ATTN: Tom Funk

Test Start: 2012.08.26 @ 21:40:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

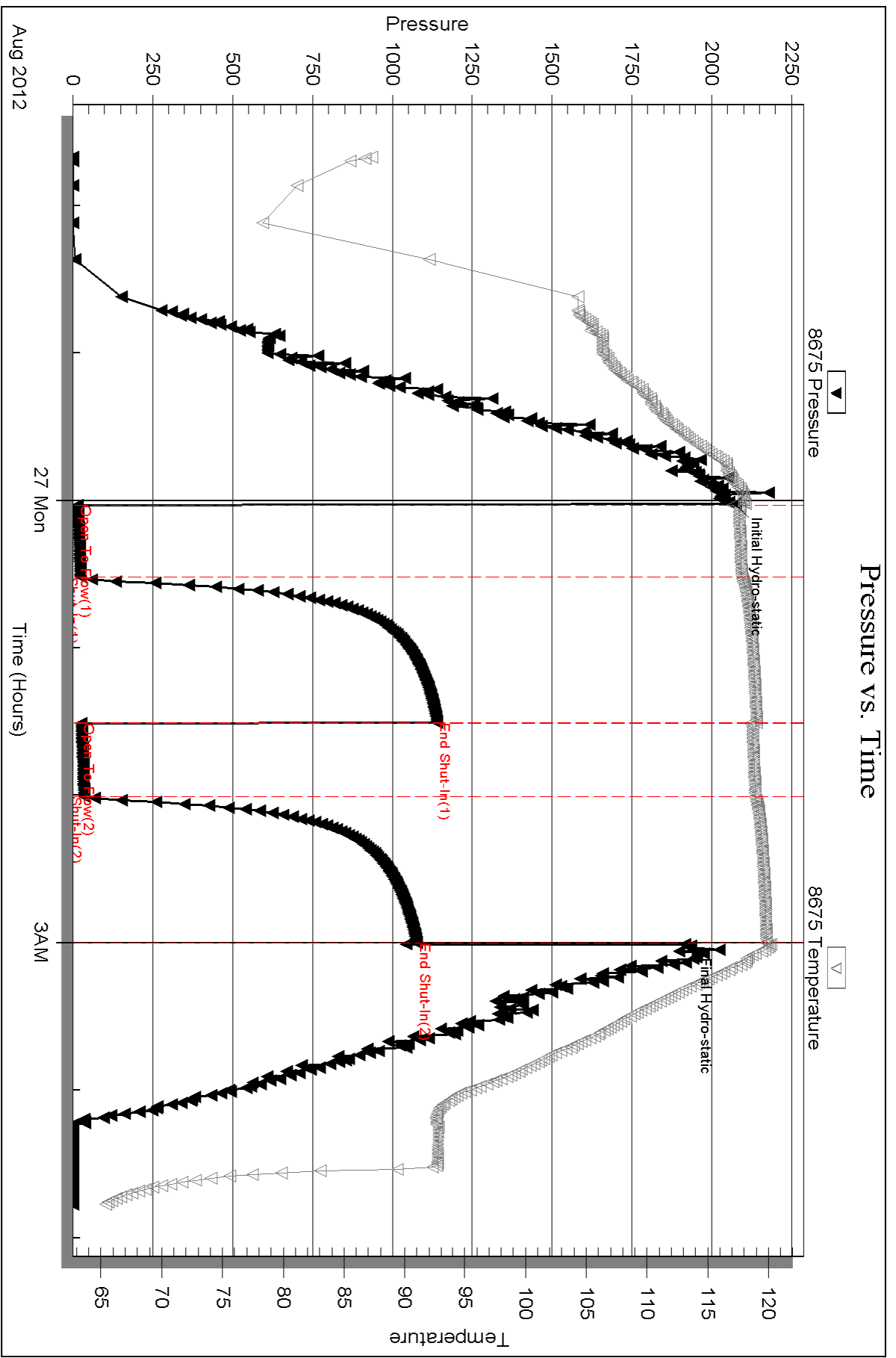
Serial #: 8675

Inside

Murfin Drilling Company Inc.

Edwards #1-17

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48881

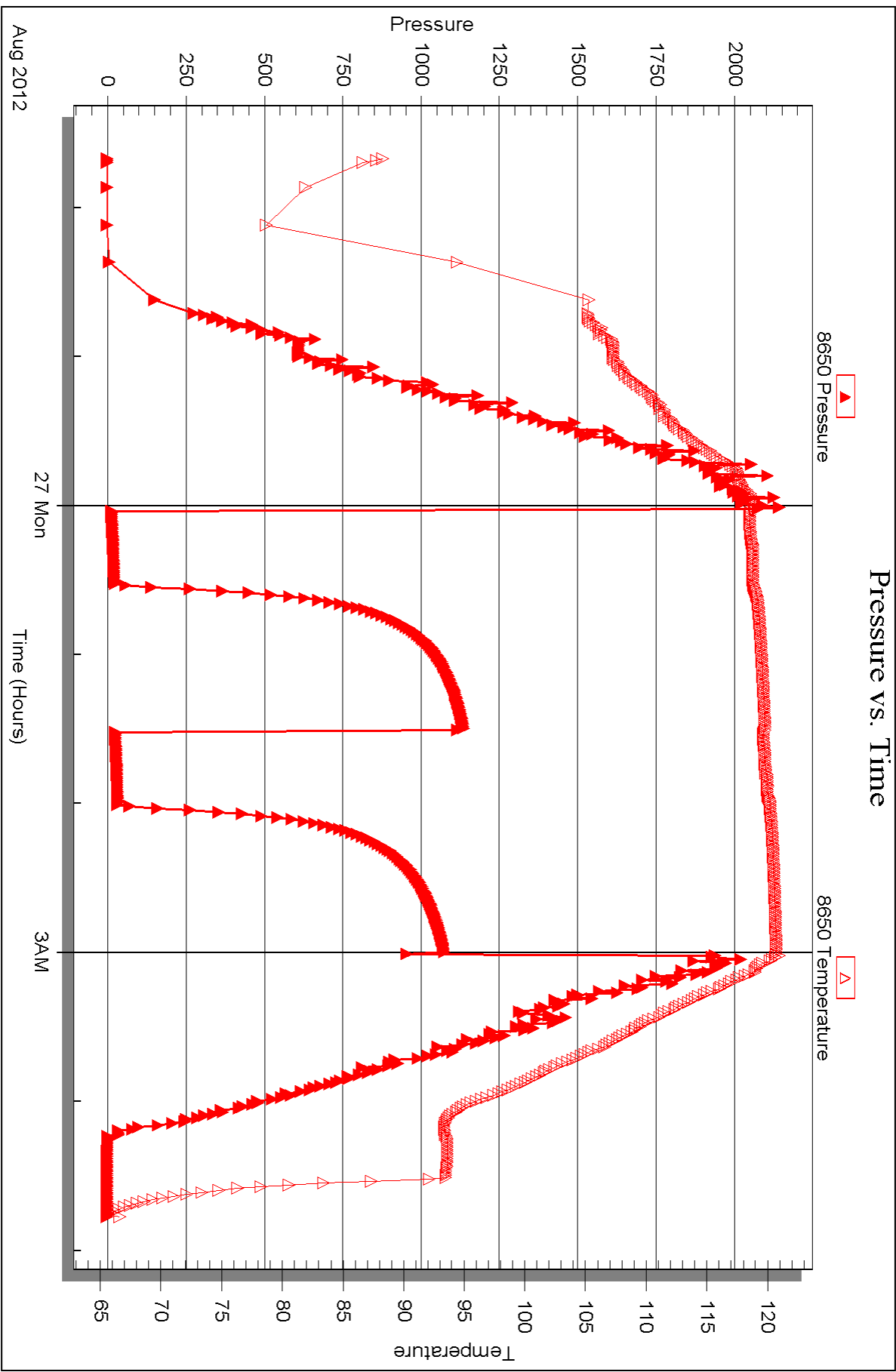
Printed: 2012.09.07 @ 10:27:06

Serial #: 8650

Outside Murfin Drilling Company Inc.

Edwards #1-17

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48881

Printed: 2012.09.07 @ 10:27:06



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N Water STE 300
Wichita KS 67202 - 1216

ATTN: Tom Funk

Edwards #1-17

17-16s-32w Scott,KS

Start Date: 2012.08.28 @ 07:05:00

End Date: 2012.08.28 @ 15:30:45

Job Ticket #: 48882 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.07 @ 10:26:16

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

Edwards #1-17

DST # 2

Altamont B - Pawnee

2012.08.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

Job Ticket: 48882

DST#: 2

ATTN: Tom Funk

Test Start: 2012.08.28 @ 07:05:00

GENERAL INFORMATION:

Formation: **Altamont B - Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:18:15

Time Test Ended: 15:30:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4416.00 ft (KB) To 4525.00 ft (KB) (TVD)

Reference Elevations: 3013.00 ft (KB)

Total Depth: 4525.00 ft (KB) (TVD)

3001.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 83.48 psig @ 4417.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.28

End Date: 2012.08.28

Last Calib.: 2012.08.28

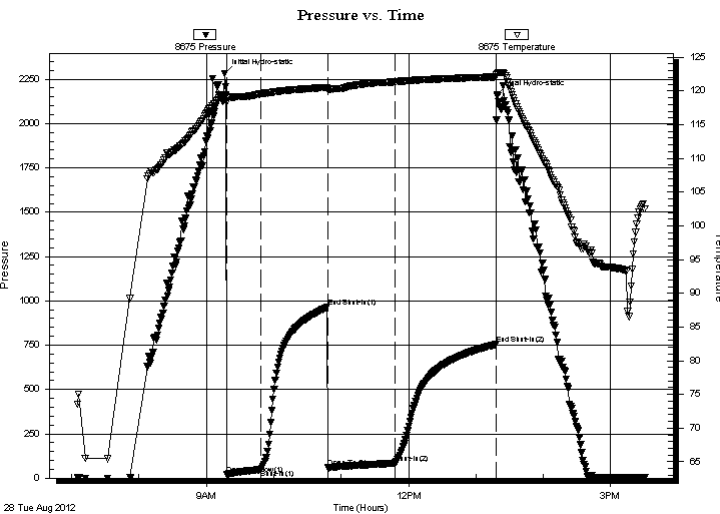
Start Time: 07:05:15

End Time: 15:30:45

Time On Btm: 2012.08.28 @ 09:16:15

Time Off Btm: 2012.08.28 @ 13:19:00

TEST COMMENT: Built to 4" blow
No return blow
Built to 2" blow
No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2283.39	119.34	Initial Hydro-static
2	21.87	118.26	Open To Flow (1)
32	48.76	119.58	Shut-In(1)
92	965.99	120.55	End Shut-In(1)
92	58.33	120.13	Open To Flow (2)
152	83.48	121.35	Shut-In(2)
242	754.33	122.09	End Shut-In(2)
243	2162.88	122.62	Final Hydro-static

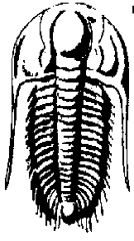
Recovery

Length (ft)	Description	Volume (bbl)
60.00	mco 50%M 50%O	0.30
60.00	mco 30%M 70%O	0.30
10.00	clean oil 100%O	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.
250 N Water STE 300
Wichita KS 67202 - 1216
ATTN: Tom Funk

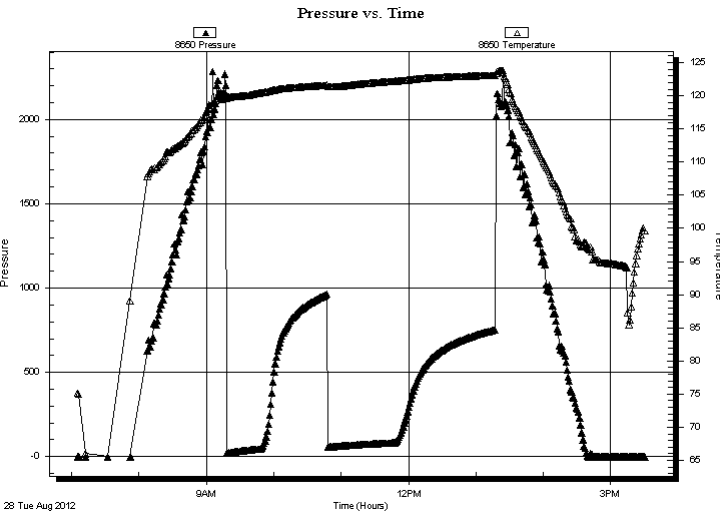
17-16s-32w Scott,KS
Edwards #1-17
Job Ticket: 48882 **DST#: 2**
Test Start: 2012.08.28 @ 07:05:00

GENERAL INFORMATION:

Formation: **Altamont B - Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:18:15
Time Test Ended: 15:30:45
Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 46
Interval: 4416.00 ft (KB) To 4525.00 ft (KB) (TVD)
Reference Elevations: 3013.00 ft (KB)
Total Depth: 4525.00 ft (KB) (TVD)
3001.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 12.00 ft

Serial #: 8650 Outside
Press @ Run Depth: psig @ 4417.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.28 End Date: 2012.08.28 Last Calib.: 2012.08.28
Start Time: 07:05:15 End Time: 15:30:45 Time On Btm:
Time Off Btm:

TEST COMMENT: Built to 4" blow
No return blow
Built to 2" blow
No return blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	mco 50%M 50%O	0.30
60.00	mco 30%M 70%O	0.30
10.00	clean oil 100%O	0.05

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

Job Ticket: 48882

DST#: 2

ATTN: Tom Funk

Test Start: 2012.08.28 @ 07:05:00

Tool Information

Drill Pipe:	Length: 4144.13 ft	Diameter: 3.80 inches	Volume: 58.13 bbl	Tool Weight: 1500.00 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: 266.46 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 59.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.59 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4416.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	109.00 ft			
Tool Length:	129.00 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			4397.00	
Shut In Tool	5.00			4402.00	
Hydraulic tool	5.00			4407.00	
Packer	5.00			4412.00	20.00 Bottom Of Top Packer
Packer	4.00			4416.00	
Stubb	1.00			4417.00	
Recorder	0.00	8675	Inside	4417.00	
Recorder	0.00	8650	Outside	4417.00	
Perforations	5.00			4422.00	
Change Over Sub	1.00			4423.00	
Drill Pipe	93.00			4516.00	
Change Over Sub	1.00			4517.00	
Bullnose	8.00			4525.00	109.00 Bottom Packers & Anchor

Total Tool Length: 129.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

Job Ticket: 48882

DST#: 2

ATTN: Tom Funk

Test Start: 2012.08.28 @ 07:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	mco 50%M 50%O	0.295
60.00	mco 30%M 70%O	0.295
10.00	clean oil 100%O	0.049

Total Length: 130.00 ft Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

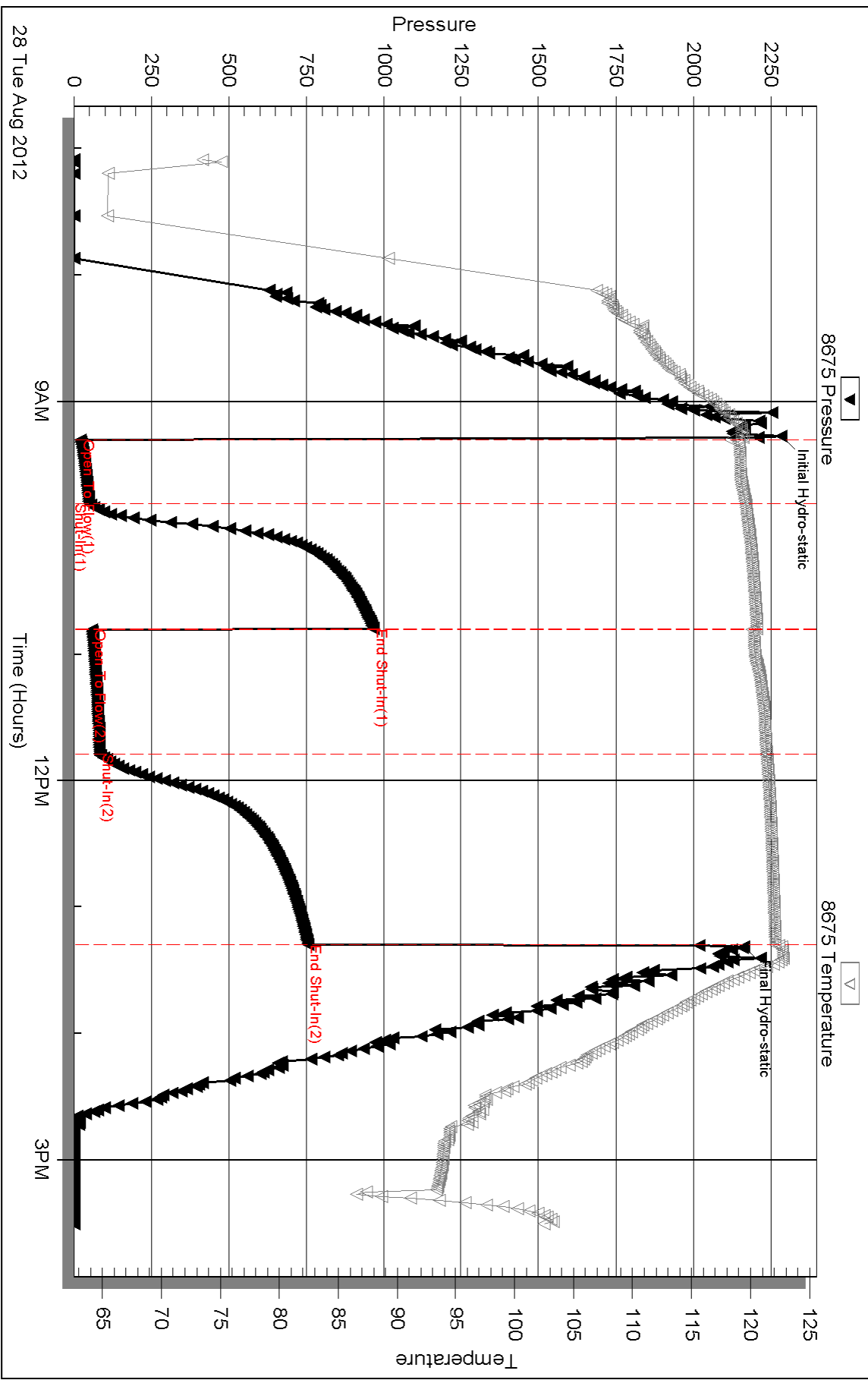
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API 32 @ 80 F = 30

Pressure vs. Time

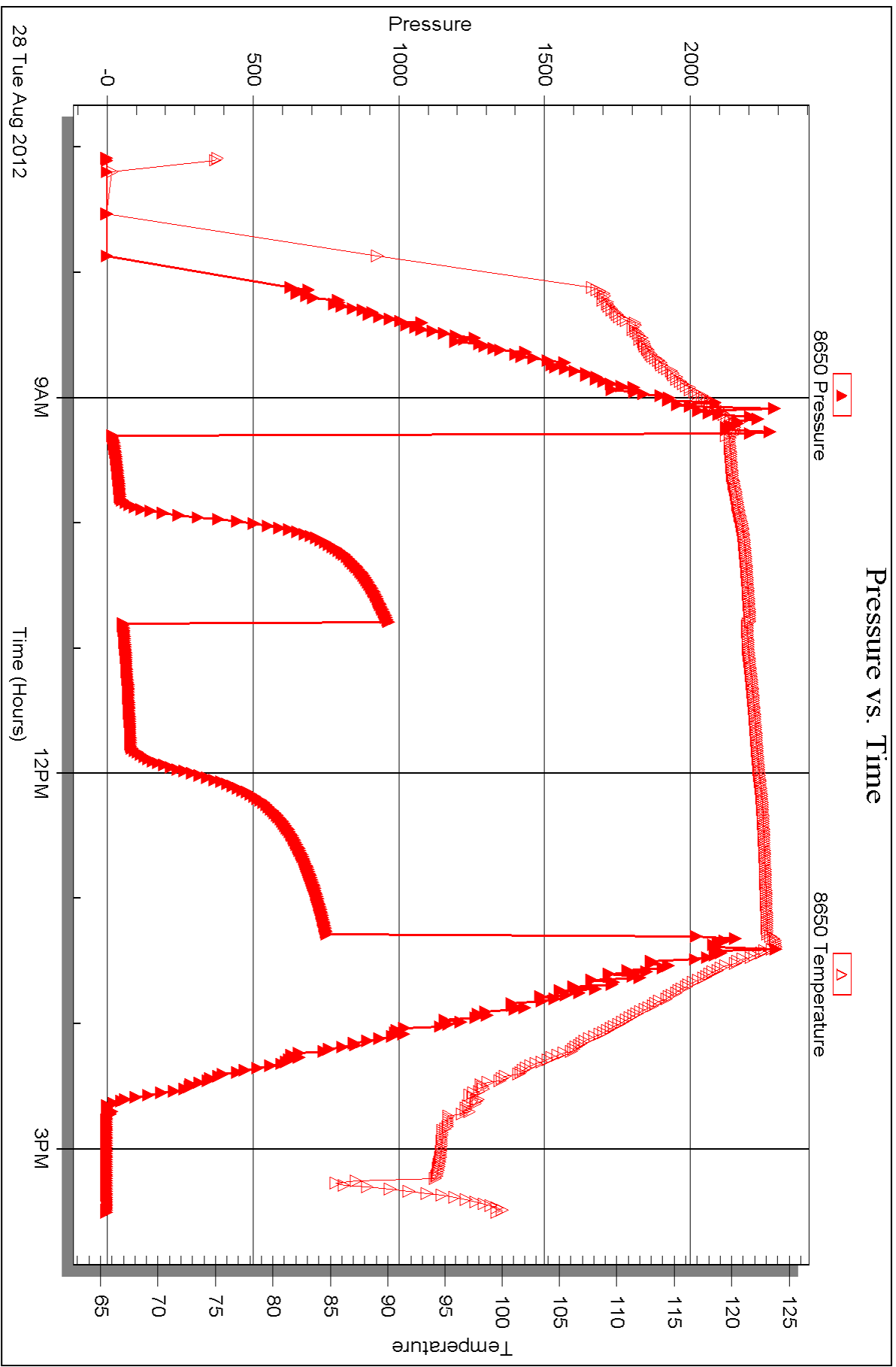


Serial #: 8650

Outside Murfin Drilling Company Inc.

Edwards #1-17

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N Water STE 300
Wichita KS 67202 - 1216

ATTN: Tom Funk

Edwards #1-17

17-16s-32w Scott,KS

Start Date: 2012.08.29 @ 08:50:00

End Date: 2012.08.29 @ 16:10:30

Job Ticket #: 48883 DST #: 3

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

Printed: 2012.09.07 @ 10:24:56

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

Edwards #1-17

DST # 3

Johnson Zone

2012.08.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

Job Ticket: 48883

DST#: 3

ATTN: Tom Funk

Test Start: 2012.08.29 @ 08:50:00

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:09:00

Time Test Ended: 16:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4578.00 ft (KB) To 4640.00 ft (KB) (TVD)

Reference Elevations: 3013.00 ft (KB)

Total Depth: 4640.00 ft (KB) (TVD)

3001.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 17.63 psig @ 4579.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.29

End Date: 2012.08.29

Last Calib.: 2012.08.29

Start Time: 08:50:15

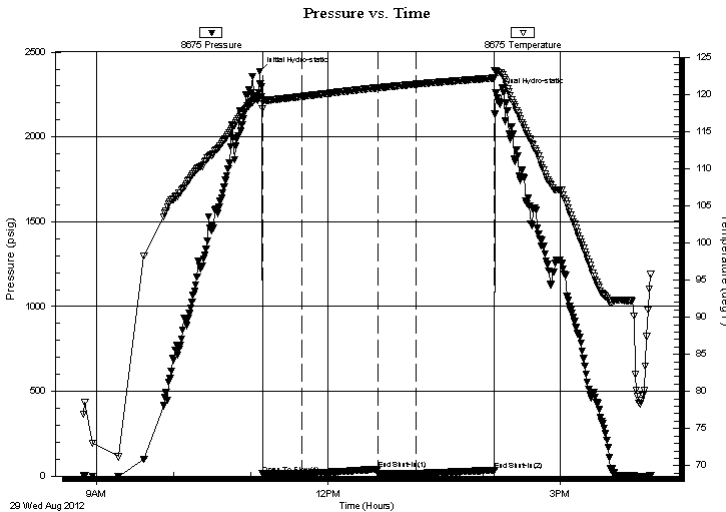
End Time: 16:10:30

Time On Btm: 2012.08.29 @ 11:06:45

Time Off Btm: 2012.08.29 @ 14:10:00

TEST COMMENT: Built to 1/4" blow
No return blow
No blow
No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2386.79	119.59	Initial Hydro-static
3	13.75	118.10	Open To Flow (1)
33	16.91	119.72	Shut-In(1)
92	41.45	120.90	End Shut-In(1)
93	16.22	120.89	Open To Flow (2)
122	17.63	121.38	Shut-In(2)
183	35.50	122.21	End Shut-In(2)
184	2261.80	123.14	Final Hydro-static

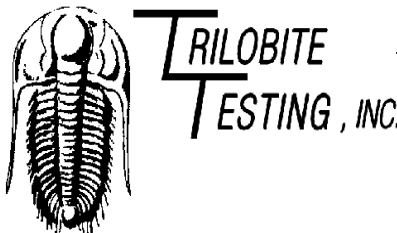
Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud w ith oil spots	0.02

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

ATTN: Tom Funk

Job Ticket: 48883 **DST#: 3**

Test Start: 2012.08.29 @ 08:50:00

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:09:00

Time Test Ended: 16:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4578.00 ft (KB) To 4640.00 ft (KB) (TVD)

Reference Elevations: 3013.00 ft (KB)

Total Depth: 4640.00 ft (KB) (TVD)

3001.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8650 Outside

Press @ Run Depth: psig @ 4579.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.29 End Date: 2012.08.29

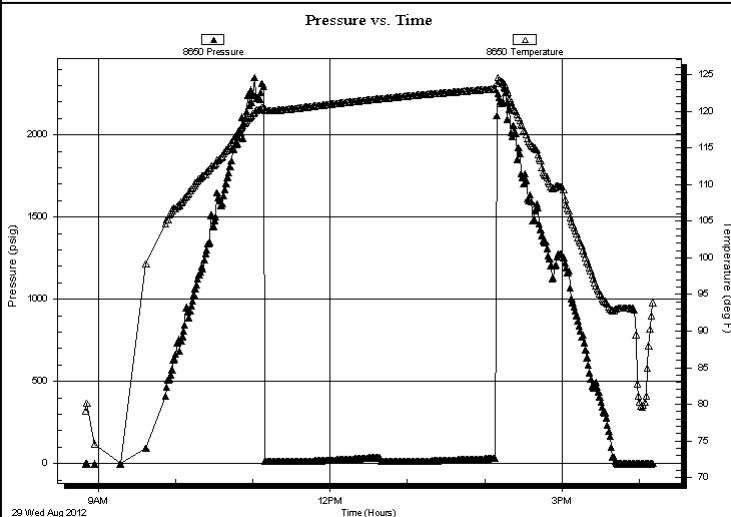
Last Calib.: 2012.08.29

Start Time: 08:50:15 End Time: 16:10:30

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 1/4" blow
No return blow
No blow
No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud with oil spots	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

Job Ticket: 48883

DST#: 3

ATTN: Tom Funk

Test Start: 2012.08.29 @ 08:50:00

Tool Information

Drill Pipe:	Length: 4301.48 ft	Diameter: 3.80 inches	Volume: 60.34 bbl	Tool Weight:	1500.00 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: 266.46 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose:	88000.00 lb
			<u>Total Volume: 61.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.94 ft			String Weight: Initial	78000.00 lb
Depth to Top Packer:	4578.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	62.00 ft				
Tool Length:	82.00 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			4559.00	
Shut In Tool	5.00			4564.00	
Hydraulic tool	5.00			4569.00	
Packer	5.00			4574.00	20.00 Bottom Of Top Packer
Packer	4.00			4578.00	
Stubb	1.00			4579.00	
Recorder	0.00	8675	Inside	4579.00	
Recorder	0.00	8650	Outside	4579.00	
Perforations	24.00			4603.00	
Change Over Sub	1.00			4604.00	
Drill Pipe	32.00			4636.00	
Change Over Sub	1.00			4637.00	
Bullnose	3.00			4640.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

17-16s-32w Scott,KS

250 N Water STE 300
Wichita KS 67202 - 1216

Edwards #1-17

Job Ticket: 48883

DST#: 3

ATTN: Tom Funk

Test Start: 2012.08.29 @ 08:50:00

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: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud with 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:

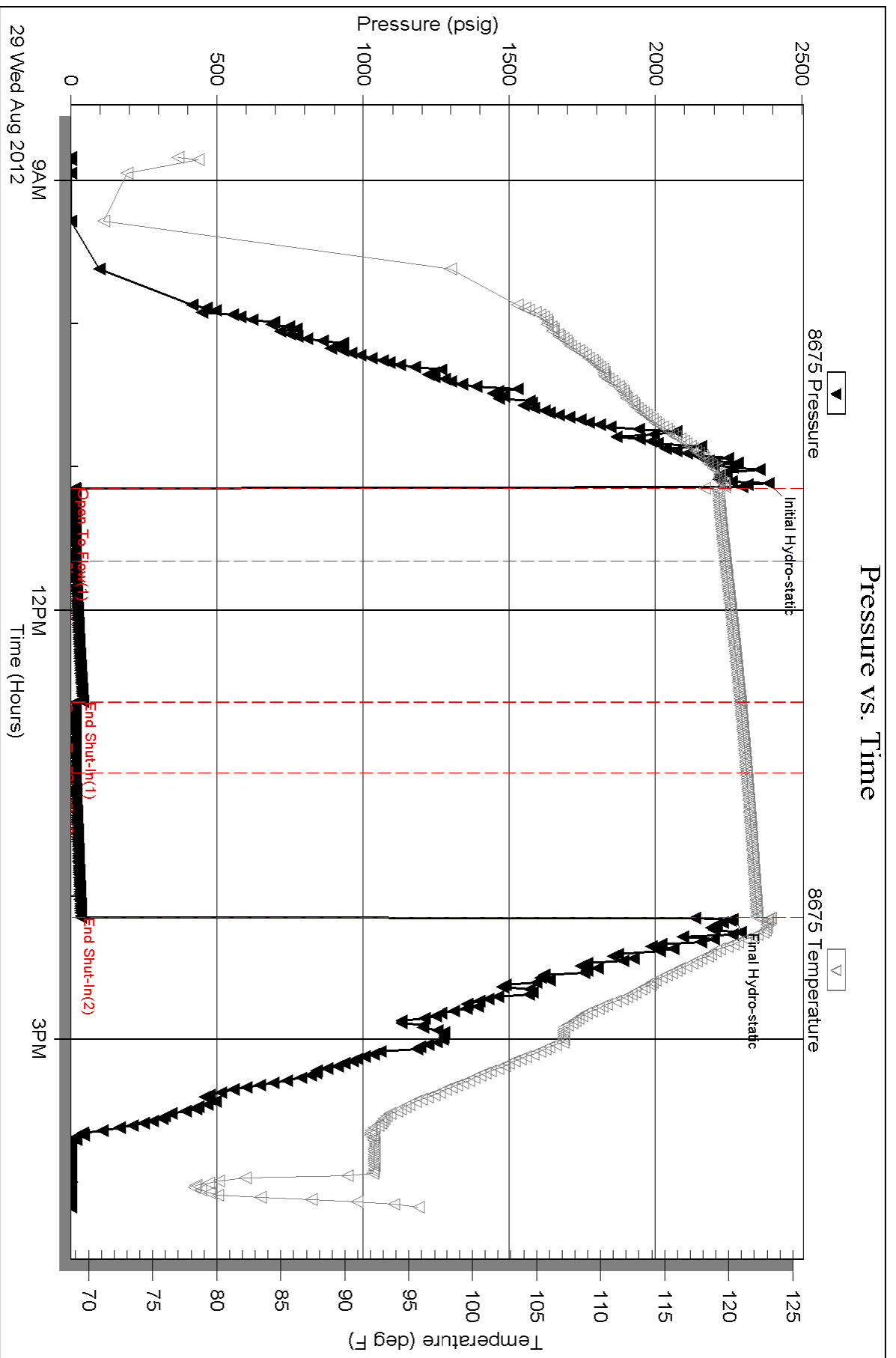
Serial #: 8675

Inside

Murfin Drilling Company Inc.

Edwards #1-17

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48883

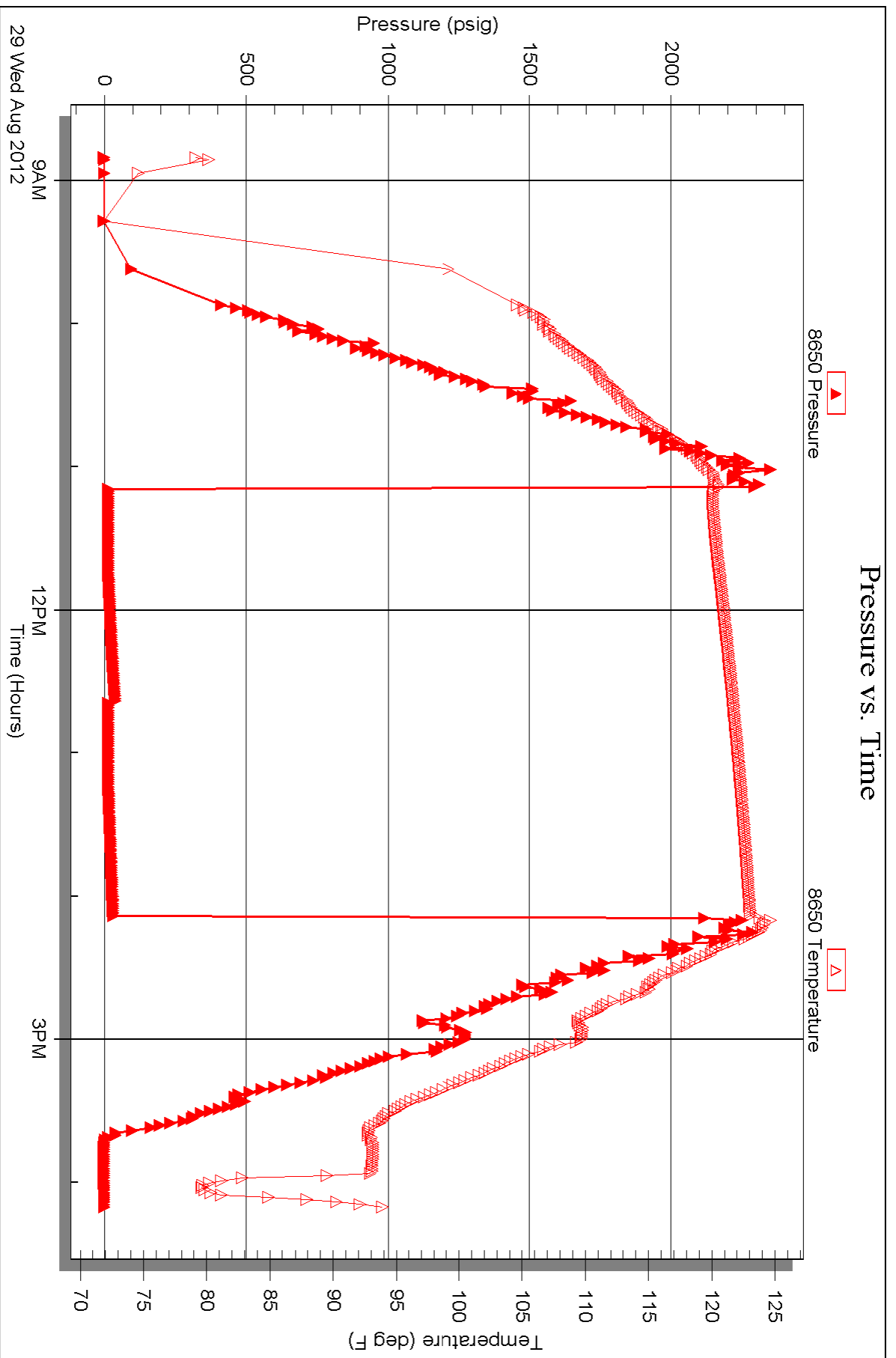
Printed: 2012.09.07 @ 10:25:00

Serial #: 8650

Outside Murfin Drilling Company Inc.

Edwards #1-17

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48883

Printed: 2012.09.07 @ 10:25:00



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48881

Well Name & No. Edwards #1-17 Test No. 1 Date 8/26/12 8/27/12
 Company Martin Drilling Company Inc. Elevation 3013 KB 3001 GL
 Address 250 W Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Tom Funk Rig Martin 21
 Location: Sec. 17 Twp. 16S Rge. 32W Co. Scott State KS

Interval Tested 4205 - 4262 Zone Tested Kansas City "I-5"
 Anchor Length 57 Drill Pipe Run 3924 Mud Wt. 9.2
 Top Packer Depth 4201 Drill Collars Run 266.46 Vis 65
 Bottom Packer Depth 4205 Wt. Pipe Run _____ WL 6.8
 Total Depth 4262 Chlorides 2,200 ppm System LCM 5
 Blow Description Built to 3/4", Dird to 1/2" below
No return below
No below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</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 10 BHT 120 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

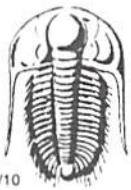
(A) Initial Hydrostatic 2,074 Test 1250 T-On Location 20:50
 (B) First Initial Flow 15 Jars T-Started 21:40
 (C) First Final Flow 24 Safety Joint T-Open 00:01
 (D) Initial Shut-In 1,139 Circ Sub n/c T-Pulled 3:01
 (E) Second Initial Flow 27 Hourly Standby T-Out 4:47
 (F) Second Final Flow 36 Mileage 34 RT 52.70 Comments _____
 (G) Final Shut-In 1,076 Sampler _____
 (H) Final Hydrostatic ~~2121~~ Straddle _____
1,916 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1302.70

Approved By [Signature] 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48882

Well Name & No. Edwards #1-12 Test No. 2 Date 8/28/12
 Company Martin Drilling Company Inc Elevation 3013 KB 3001 GL
 Address 250 N Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Tom Funk Rig Martin 21
 Location: Sec. 17 Twp. 16S Rge. 32W Co. Scott State KS

Interval Tested 4416 - 4525 Zone Tested Altamont "B" - Pawnee
 Anchor Length 109 Drill Pipe Run 4144.13 Mud Wt. 9.3
 Top Packer Depth 4412 Drill Collars Run 266.46 Vis 58
 Bottom Packer Depth 4416 Wt. Pipe Run _____ WL 7.2
 Total Depth 4525 Chlorides 2,200 ppm System LCM 5.0
 Blow Description Built to 4" below
No return below
Built to 2" below
No return below

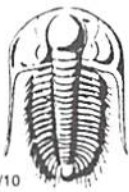
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Clean oil</u>	<u>100</u>			
<u>60</u>	<u>mco</u>	<u>70</u>		<u>30</u>	
<u>60</u>	<u>mco</u>	<u>50</u>		<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 130 BHT 121 Gravity 30 API RW _____ @ _____ ° F Chlorides _____ ppm
 (A) Initial Hydrostatic 2,283 Test 1250 T-On Location 6:30
 (B) First Initial Flow 22 Jars T-Started 7:05
 (C) First Final Flow 49 Safety Joint T-Open 9:18
 (D) Initial Shut-In 966 Circ Sub N/C T-Pulled 13:18
 (E) Second Initial Flow 58 Hourly Standby 3 1/2 hours T-Out 15:30
 (F) Second Final Flow 83 Mileage 34RT 52.70 Comments _____
 (G) Final Shut-In 754 Sampler _____
 (H) Final Hydrostatic 2,163 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby 1d 1.75hrs Ruined Shale Packer _____
 Accessibility _____ Ruined Packer 320

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 58.33+320
 Total 1681.03
 MP/DST Disc't _____
 Sub Total 1302.70

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48883

Well Name & No. Edwards # 1-17 Test No. 3 Date 8/29/12
 Company Martin Drilling Company Inc Elevation 3013 KB 3001 GL
 Address 250 N Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Tom Funk Rig Martin 21
 Location: Sec. 17 Twp. 16S Rge. 32w Co. Scott State KS

Interval Tested 4578-4640 Zone Tested Johnson Zone
 Anchor Length 62 Drill Pipe Run 4301.48 Mud Wt. 9.2
 Top Packer Depth 4574 Drill Collars Run 266.46 Vis 80
 Bottom Packer Depth 4578 Wt. Pipe Run _____ WL 6.8
 Total Depth 4640 Chlorides 2,000 ppm System LCM 6#
 Blow Description Built to 1/4" below
no return below
No below
no return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud with out spots</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	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 122 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2,387 Test 1250 T-On Location 7:40
 (B) First Initial Flow 14 Jars _____ T-Started 8:50
 (C) First Final Flow 17 Safety Joint _____ T-Open 11:08
 (D) Initial Shut-In 41 Circ Sub N/C T-Pulled 14:08
 (E) Second Initial Flow 16 Hourly Standby _____ T-Out 16:11
 (F) Second Final Flow 18 Mileage 34 RT x 2 105.40 Comments lead tools @ 7:30
 (G) Final Shut-In 36 Sampler _____ on 8/30/12
 (H) Final Hydrostatic 2,262 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 1355.40
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1355.40

Approved By [Signature] Our Representative [Signature]
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