



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Frisbie "B" #1-16

16-2S-35W Rawlins KS

Start Date: 2019.03.04 @ 03:30:00

End Date: 2019.03.04 @ 12:49:49

Job Ticket #: 65291 DST #: 1

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

Printed: 2019.03.08 @ 14:14:57

Murfin Drilling Co Inc.
16-2S-35W Rawlins KS
Frisbie "B" #1-16
DST # 1
LKC "A"
2019.03.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65291

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2019.03.04 @ 03:30:00

GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:39:30

Time Test Ended: 12:49:49

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 71

Interval: 4109.00 ft (KB) To 4190.00 ft (KB) (TVD)

Reference Elevations: 3249.00 ft (KB)

Total Depth: 4190.00 ft (KB) (TVD)

3244.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366

Outside

Press@RunDepth: 94.01 psig @ 4110.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.04

End Date:

2019.03.04

Last Calib.: 2019.03.04

Start Time: 03:30:01

End Time:

12:49:49

Time On Btm: 2019.03.04 @ 06:38:50

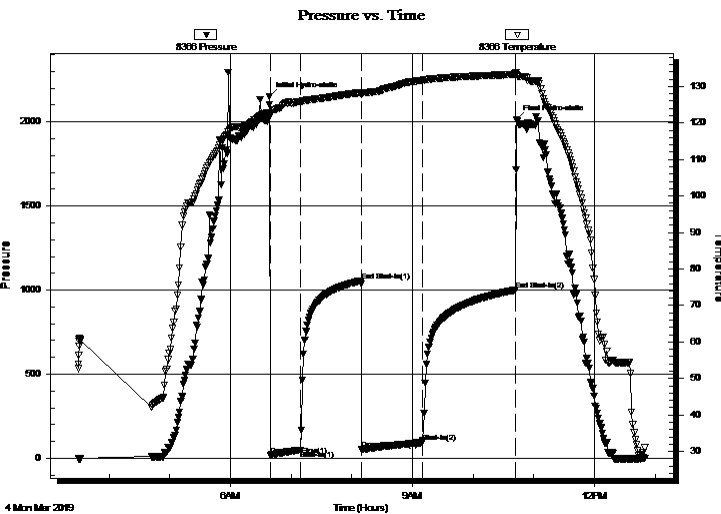
Time Off Btm: 2019.03.04 @ 10:43:00

TEST COMMENT: 30 IF - Blow built to 3 1/4" (in diesel)

60 ISI - No return

60 FF - Blow built to 2 1/4"

90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.43	122.73	Initial Hydro-static
1	16.96	121.99	Open To Flow (1)
31	49.06	125.80	Shut-In(1)
91	1055.10	128.32	End Shut-In(1)
91	52.16	127.82	Open To Flow (2)
152	94.01	131.69	Shut-In(2)
244	1000.27	133.39	End Shut-In(2)
245	2011.99	133.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM W/trace oil - 45%W - 55%M	0.30
60.00	WCM W/trace oil - 40%W - 60%M	0.30
30.00	WCM W/trace oil - 20%w - 80%M	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65291

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2019.03.04 @ 03:30:00

Tool Information

Drill Pipe:	Length: 3883.00 ft	Diameter: 3.80 inches	Volume: 54.47 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: 20000.00 lb
Drill Collar:	Length: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 55.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4109.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	109.00 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			4086.00	
Hydraulic tool	5.00			4091.00	
Jars	5.00			4096.00	
Safety Joint	3.00			4099.00	
Packer	5.00			4104.00	28.00 Bottom Of Top Packer
Packer	5.00			4109.00	
Stubb	1.00			4110.00	
Recorder	0.00	8353	Inside	4110.00	
Recorder	0.00	8366	Outside	4110.00	
Perforations	12.00			4122.00	
Blank Spacing	65.00			4187.00	
Bullnose	3.00			4190.00	81.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65291

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2019.03.04 @ 03:30:00

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:

35000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	WCM W/trace oil - 45%W - 55%M	0.295
60.00	WCM W/trace oil - 40%W - 60%M	0.295
30.00	WCM W/trace oil - 20%w - 80%M	0.148

Total Length: 150.00 ft Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

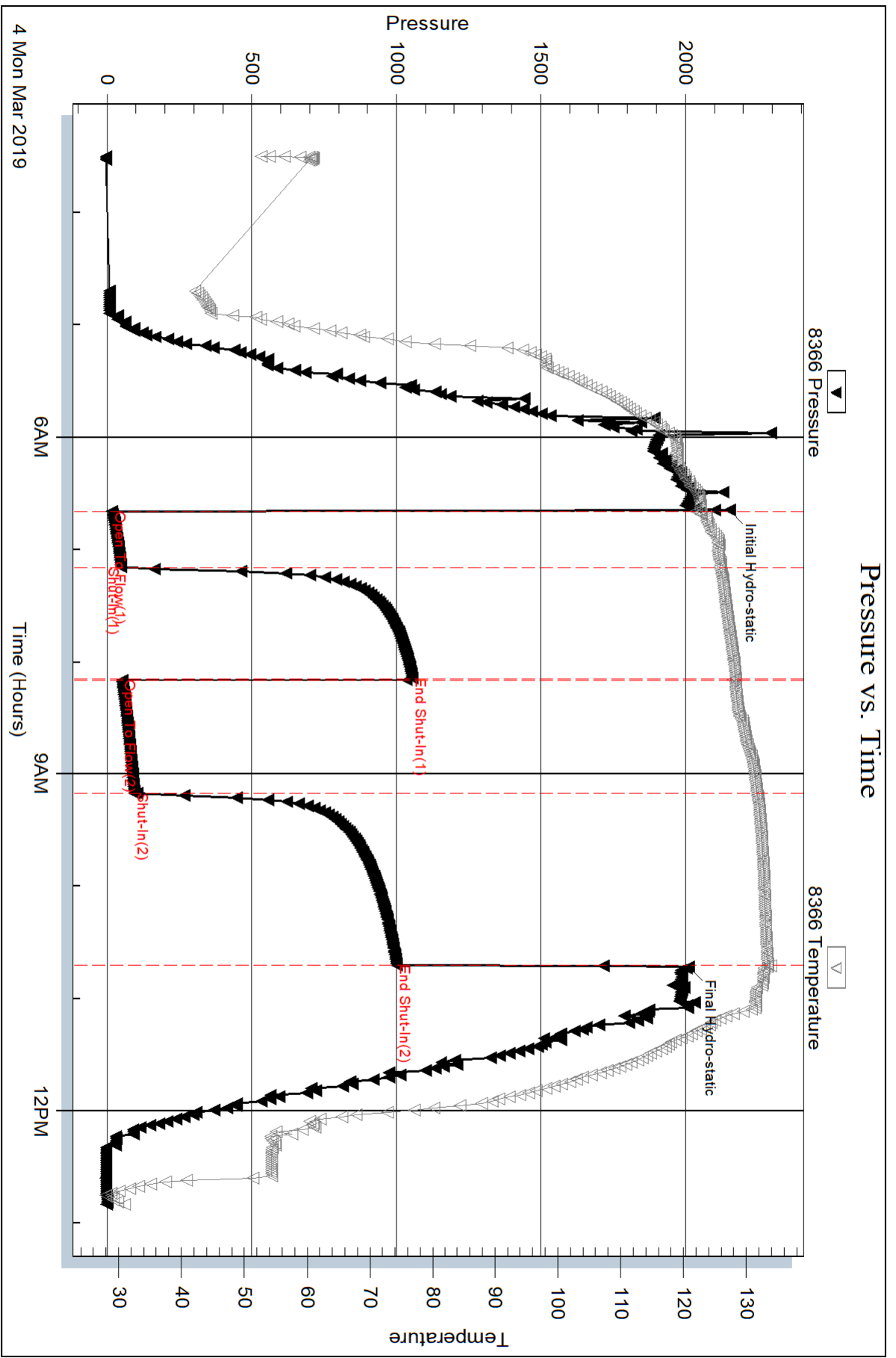
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW - .361 @ 34 DEG F

CHLORIDES = 35,000 PPM



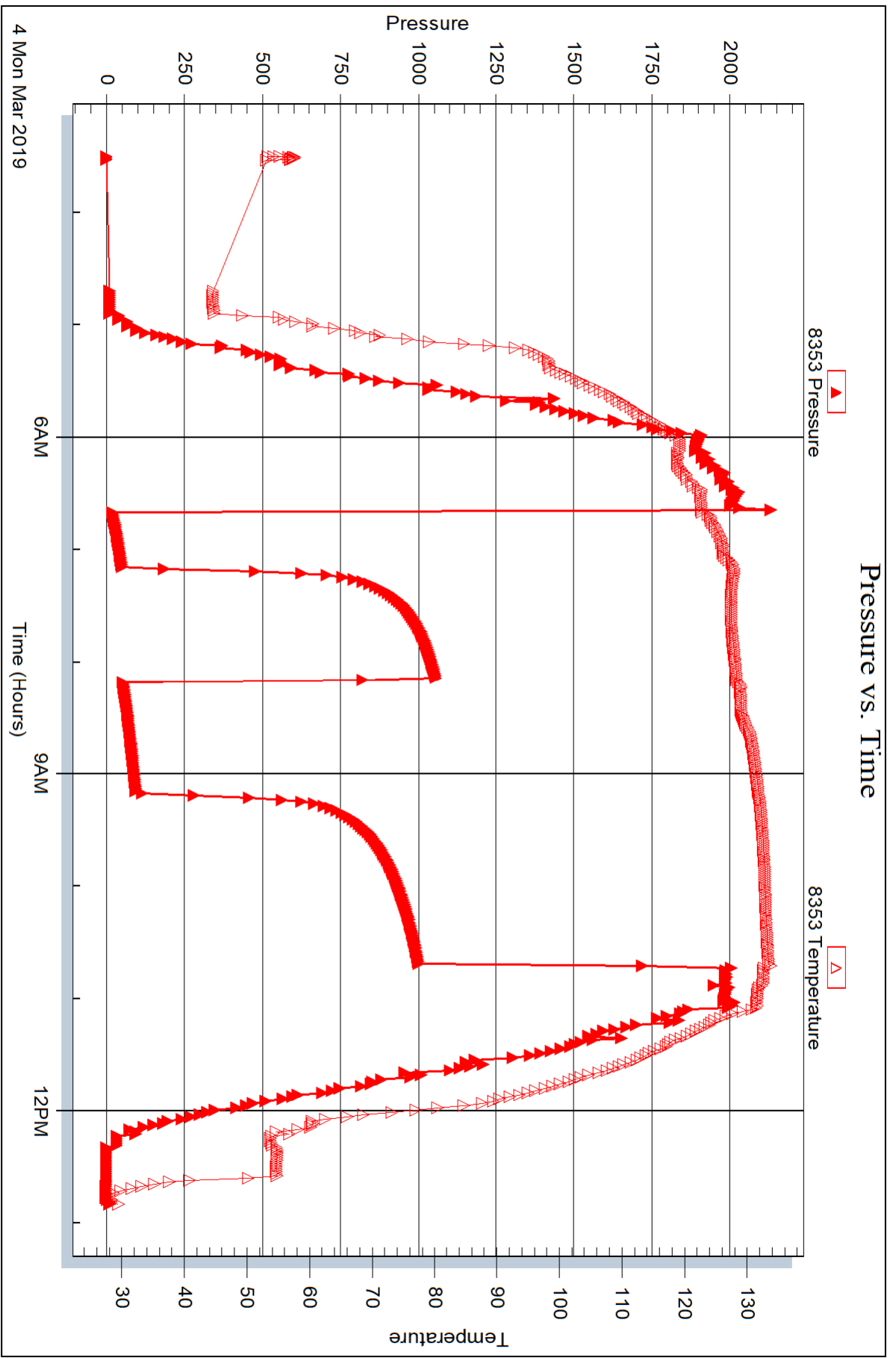
Serial #: 8353

Inside

Murfin Drilling Co Inc.

Frisbie "B" #1-16

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65291

Printed: 2019.03.08 @ 14:14:58



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Frisbie "B" #1-16

16-2S-35W Rawlins KS

Start Date: 2019.03.04 @ 22:30:00

End Date: 2019.03.05 @ 07:04:30

Job Ticket #: 65292 DST #: 2

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

Printed: 2019.03.08 @ 14:13:06

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

Frisbie "B" #1-16

DST # 2

LKC "B - D"

2019.03.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65292

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2019.03.04 @ 22:30:00

GENERAL INFORMATION:

Formation: **LKC "B - D" "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:45:50

Time Test Ended: 07:04:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4190.00 ft (KB) To 4254.00 ft (KB) (TVD)

Reference Elevations: 3249.00 ft (KB)

Total Depth: 4254.00 ft (KB) (TVD)

3244.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366

Outside

Press@RunDepth: 106.41 psig @ 4191.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.04

End Date:

2019.03.05

Last Calib.: 2019.03.05

Start Time: 22:30:01

End Time:

07:04:30

Time On Btm: 2019.03.05 @ 00:45:10

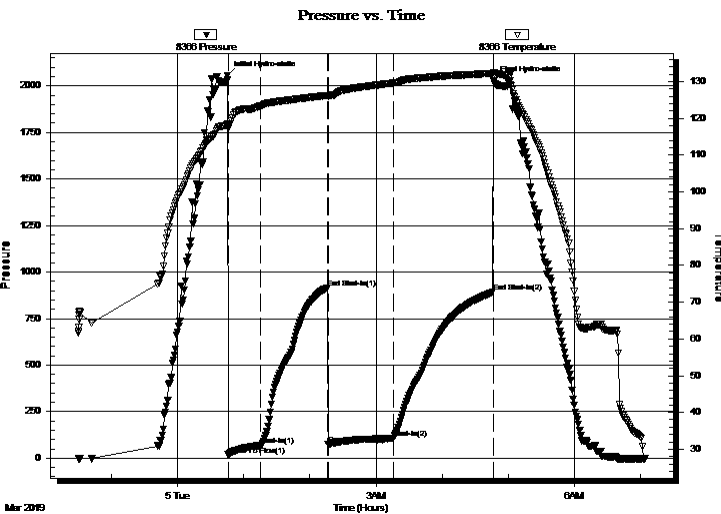
Time Off Btm: 2019.03.05 @ 04:47:00

TEST COMMENT: 30 IF - Blow built to 5" (in diesel)

60 ISI - No return

60 FF - Blow built to 5"

90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.95	118.49	Initial Hydro-static
1	17.33	117.38	Open To Flow (1)
30	67.79	123.32	Shut-In(1)
91	915.62	126.27	End Shut-In(1)
92	75.74	126.01	Open To Flow (2)
151	106.41	129.63	Shut-In(2)
241	891.22	132.26	End Shut-In(2)
242	2027.10	132.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM - 45%o - 55%M	0.30
160.00	MCO - 40%M - 60%o	0.91

* 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.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65292

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2019.03.04 @ 22:30:00

Tool Information

Drill Pipe:	Length: 3979.00 ft	Diameter: 3.80 inches	Volume: 55.81 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: 20000.00 lb
Drill Collar:	Length: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4190.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	92.00 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			4167.00	
Hydraulic tool	5.00			4172.00	
Jars	5.00			4177.00	
Safety Joint	3.00			4180.00	
Packer	5.00			4185.00	28.00 Bottom Of Top Packer
Packer	5.00			4190.00	
Stubb	1.00			4191.00	
Recorder	0.00	8353	Inside	4191.00	
Recorder	0.00	8366	Outside	4191.00	
Perforations	27.00			4218.00	
Blank Spacing	33.00			4251.00	
Bullnose	3.00			4254.00	64.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65292

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2019.03.04 @ 22:30:00

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: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	HOCM - 45%o - 55%M	0.295
160.00	MCO - 40%M - 60%o	0.914

Total Length: 220.00 ft Total Volume: 1.209 bbf

Num Fluid Samples: 0

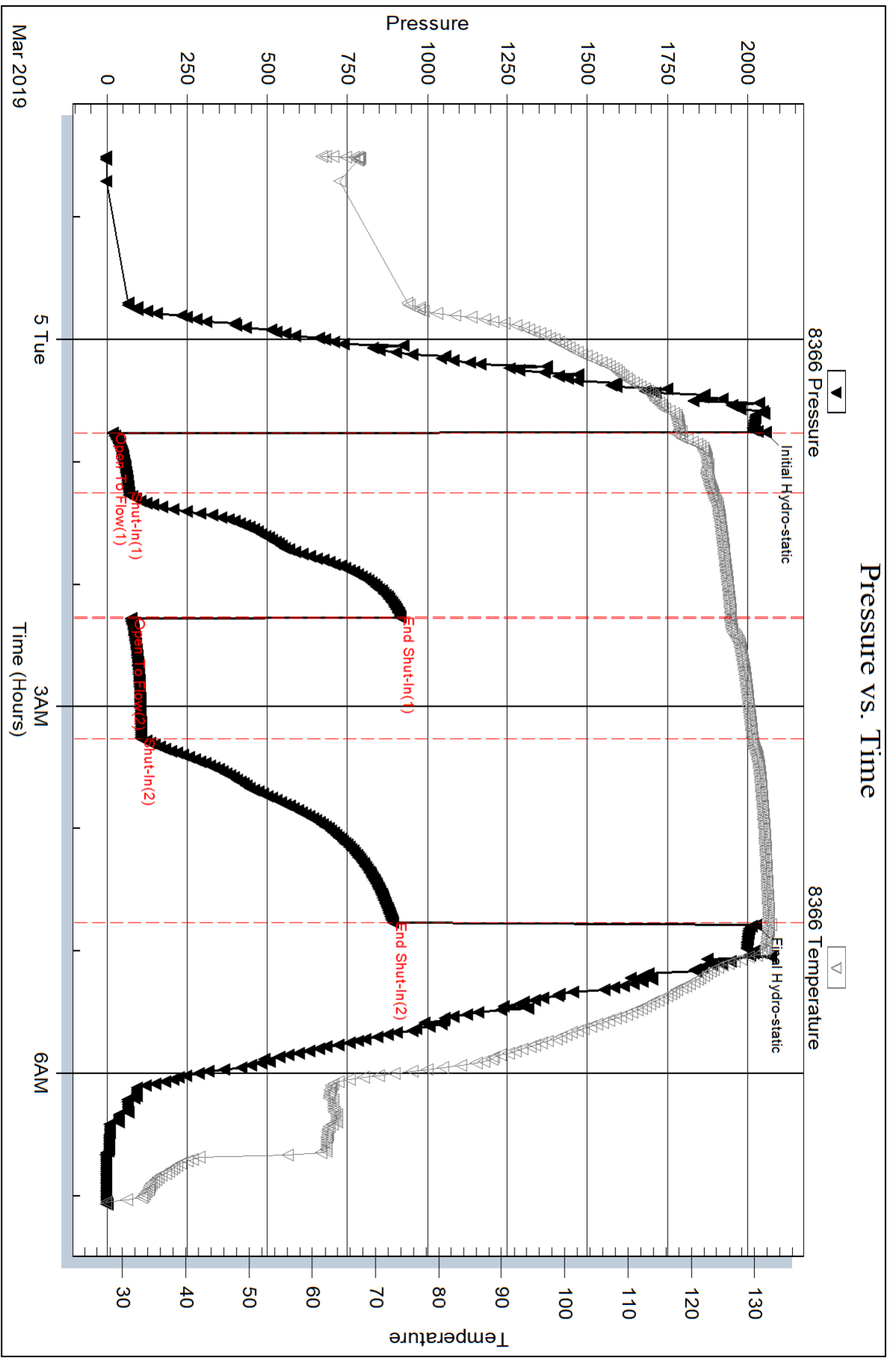
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



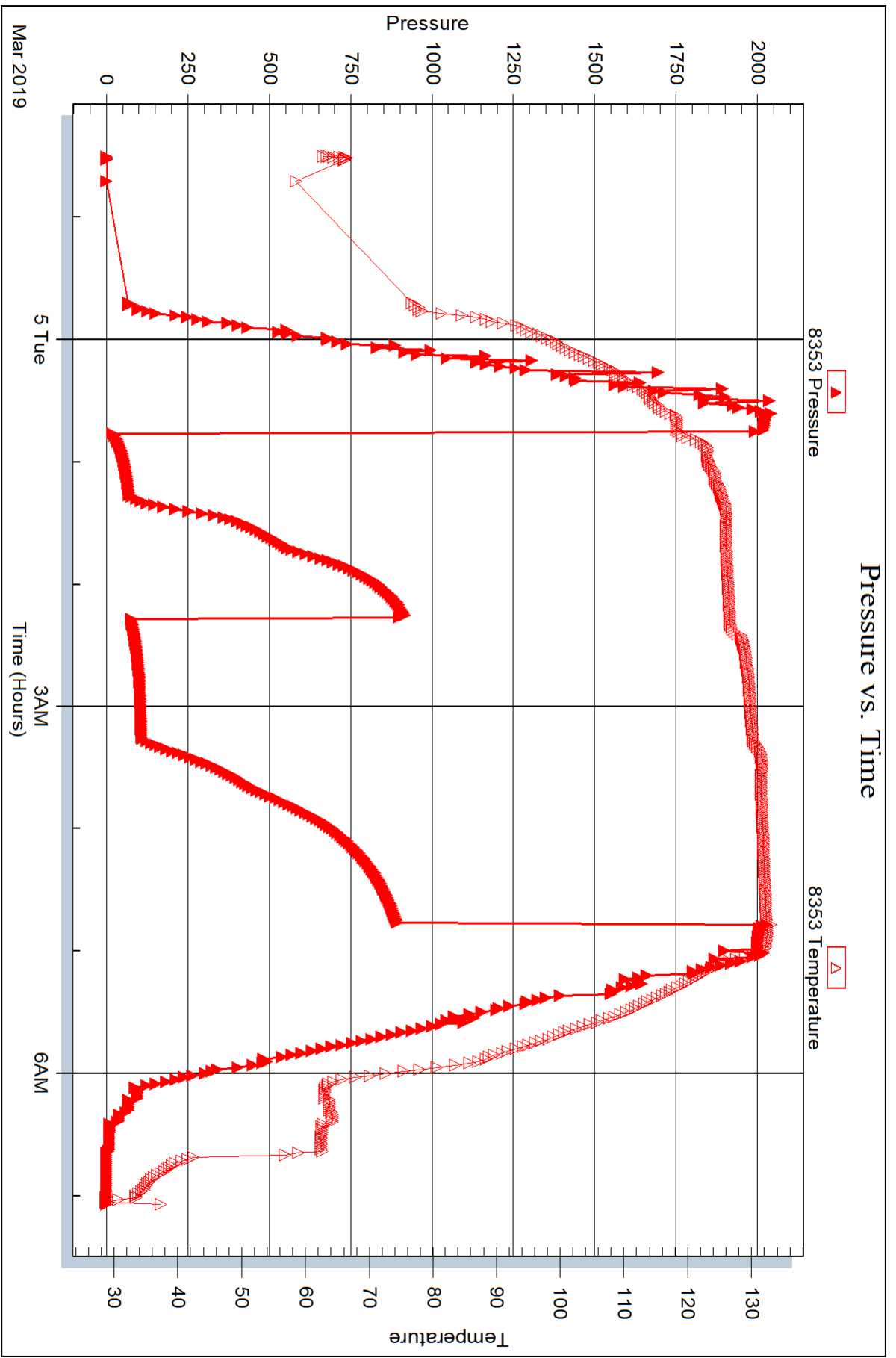
Serial #: 8353

Inside

Murfin Drilling Co Inc.

Frisbie "B" #1-16

DST Test Number: 2





DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Frisbie "B" #1-16

16-2S-35W Rawlins KS

Start Date: 2019.03.05 @ 14:49:00

End Date: 2019.03.05 @ 21:48:20

Job Ticket #: 65293 DST #: 3

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

Printed: 2019.03.08 @ 14:12:42

Murfin Drilling Co Inc.
16-2S-35W Rawlins KS
Frisbie "B" #1-16
DST # 3
LKC "G"
2019.03.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65293

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2019.03.05 @ 14:49:00

GENERAL INFORMATION:

Formation: **LKC " G "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:58:50

Time Test Ended: 21:48:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4254.00 ft (KB) To 4288.00 ft (KB) (TVD)

Reference Elevations: 3249.00 ft (KB)

Total Depth: 4288.00 ft (KB) (TVD)

3244.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366

Outside

Press@RunDepth: 29.85 psig @ 4255.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.05

End Date:

2019.03.05

Last Calib.:

2019.03.05

Start Time:

14:49:01

End Time:

21:48:20

Time On Btm:

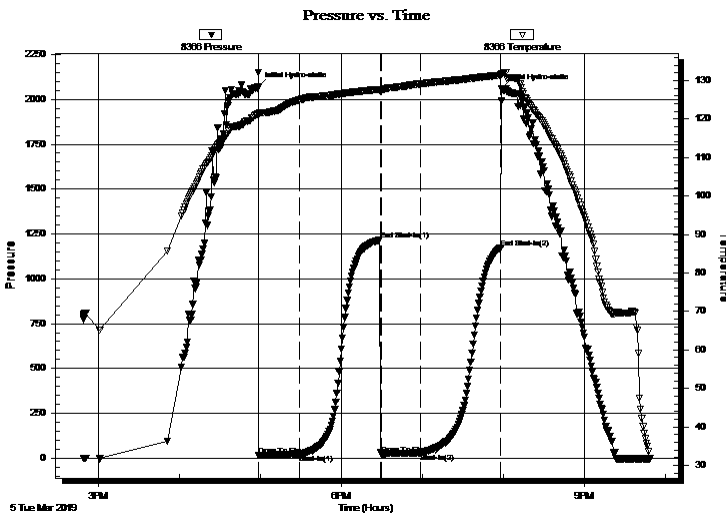
2019.03.05 @ 16:58:10

Time Off Btm:

2019.03.05 @ 19:58:39

TEST COMMENT: 30 IF - Blow built to 1"
60 ISI - No return
30 FF - Blow built to 1/2"
60 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.58	121.37	Initial Hydro-static
1	14.18	121.17	Open To Flow (1)
31	21.06	124.95	Shut-In(1)
91	1216.39	127.73	End Shut-In(1)
92	24.12	127.59	Open To Flow (2)
121	29.85	129.16	Shut-In(2)
180	1173.58	131.38	End Shut-In(2)
181	2060.15	131.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM - 20%o 80%M	0.10

* 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.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65293

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2019.03.05 @ 14:49:00

Tool Information

Drill Pipe:	Length: 4034.00 ft	Diameter: 3.80 inches	Volume: 56.59 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: 20000.00 lb
Drill Collar:	Length: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4254.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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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Shut In Tool	5.00			4231.00	
Hydraulic tool	5.00			4236.00	
Jars	5.00			4241.00	
Safety Joint	3.00			4244.00	
Packer	5.00			4249.00	28.00 Bottom Of Top Packer
Packer	5.00			4254.00	
Stubb	1.00			4255.00	
Recorder	0.00	8353	Inside	4255.00	
Recorder	0.00	8366	Outside	4255.00	
Perforations	30.00			4285.00	
Bullnose	3.00			4288.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65293

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2019.03.05 @ 14:49:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM - 20%o 80%M	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:

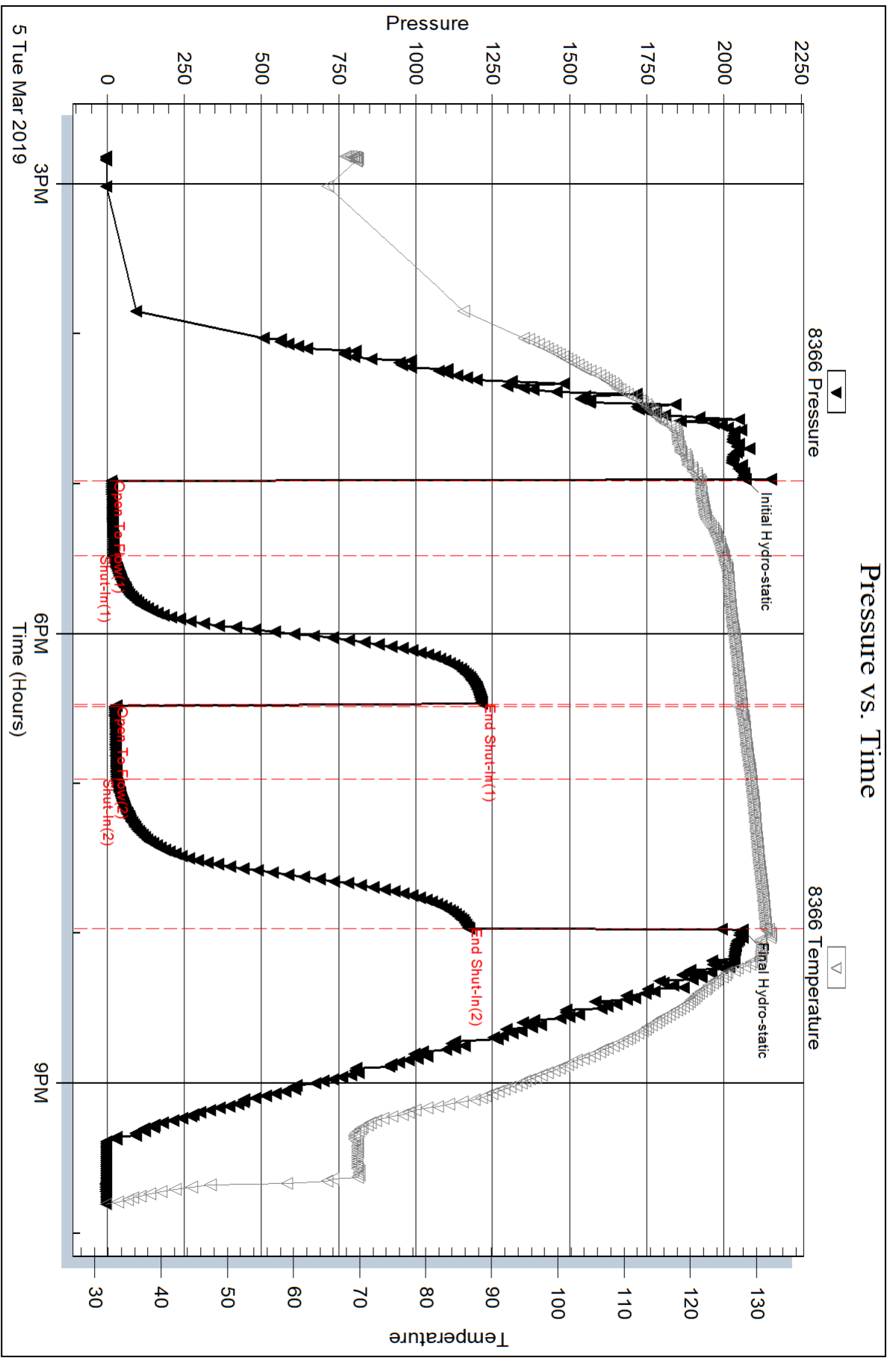
Recovery Comments:

Serial #: 8366

Outside Murfin Drilling Co Inc.

Frisbie "B" #1-16

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65293

Printed: 2019.03.08 @ 14:12:43

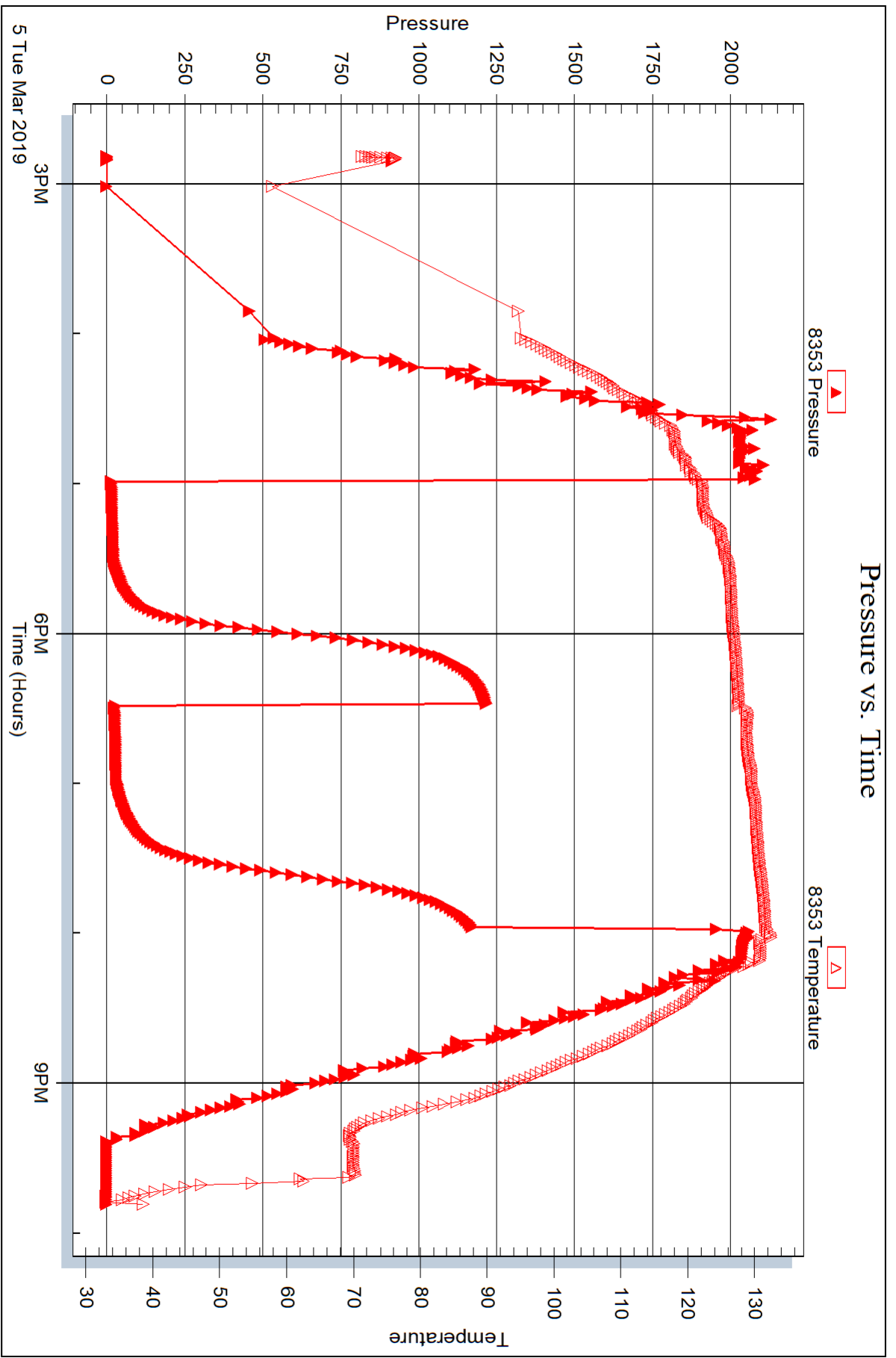
Serial #: 8353

Inside

Murfin Drilling Co Inc.

Frisbie "B" #1-16

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65293

Printed: 2019.03.08 @ 14:12:43



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Frisbie "B" #1-16

16-2S-35W Rawlins KS

Start Date: 2019.03.06 @ 09:42:00

End Date: 2019.03.06 @ 17:37:20

Job Ticket #: 65294 DST #: 4

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

Printed: 2019.03.08 @ 14:12:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65294

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2019.03.06 @ 09:42:00

GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:36:10

Time Test Ended: 17:37:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4344.00 ft (KB) To 4383.00 ft (KB) (TVD)

Reference Elevations: 3249.00 ft (KB)

Total Depth: 4383.00 ft (KB) (TVD)

3244.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 51.73 psig @ 4345.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.06

End Date:

2019.03.06

Last Calib.:

2019.03.06

Start Time: 09:42:01

End Time:

17:37:20

Time On Btm:

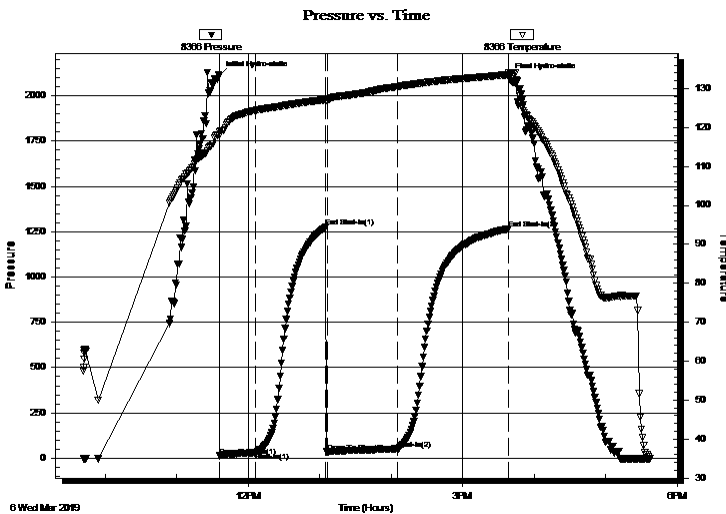
2019.03.06 @ 11:36:00

Time Off Btm:

2019.03.06 @ 15:38:50

TEST COMMENT: 30 IF - Blow built to 3"
60 ISI - Surface blow
60 FF - Blow built to 6"
90 FSI - Blow built to 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.92	118.95	Initial Hydro-static
1	12.79	117.91	Open To Flow (1)
30	30.11	124.36	Shut-In(1)
90	1275.27	127.13	End Shut-In(1)
91	31.73	126.86	Open To Flow (2)
149	51.73	130.43	Shut-In(2)
243	1264.98	133.52	End Shut-In(2)
243	2102.76	134.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GHMCO - 10%G - 40%M - 50%o	0.34
10.00	FO - 100%o	0.05
0.00	60' GIP	0.00

* 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.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65294

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2019.03.06 @ 09:42:00

Tool Information

Drill Pipe:	Length: 4134.00 ft	Diameter: 3.80 inches	Volume: 57.99 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: 20000.00 lb
Drill Collar:	Length: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4344.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	67.00 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			4321.00	
Hydraulic tool	5.00			4326.00	
Jars	5.00			4331.00	
Safety Joint	3.00			4334.00	
Packer	5.00			4339.00	28.00 Bottom Of Top Packer
Packer	5.00			4344.00	
Stubb	1.00			4345.00	
Recorder	0.00	8353	Inside	4345.00	
Recorder	0.00	8366	Outside	4345.00	
Perforations	35.00			4380.00	
Bullnose	3.00			4383.00	39.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65294

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2019.03.06 @ 09:42:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	GHMCO - 10%G - 40%M - 50%o	0.344
10.00	FO - 100%o	0.049
0.00	60' GIP	0.000

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

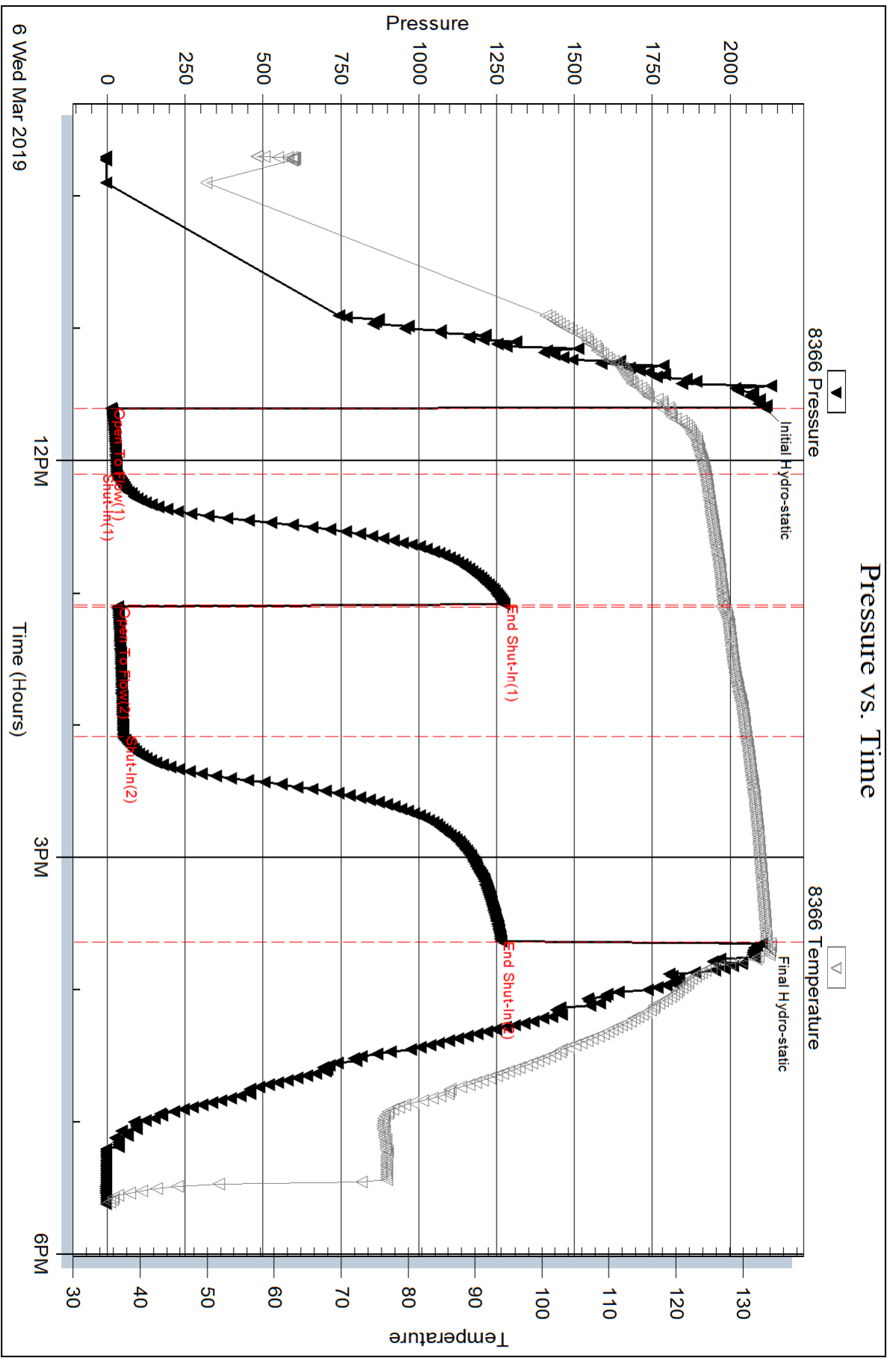
Recovery Comments: Gravity = 39 @ 50 DEG F = 40 COR 60 DEG F

Serial #: 8366

Outside Murfin Drilling Co Inc.

Frisbie "B" #1-16

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 65294

Printed: 2019.03.08 @ 14:12:03

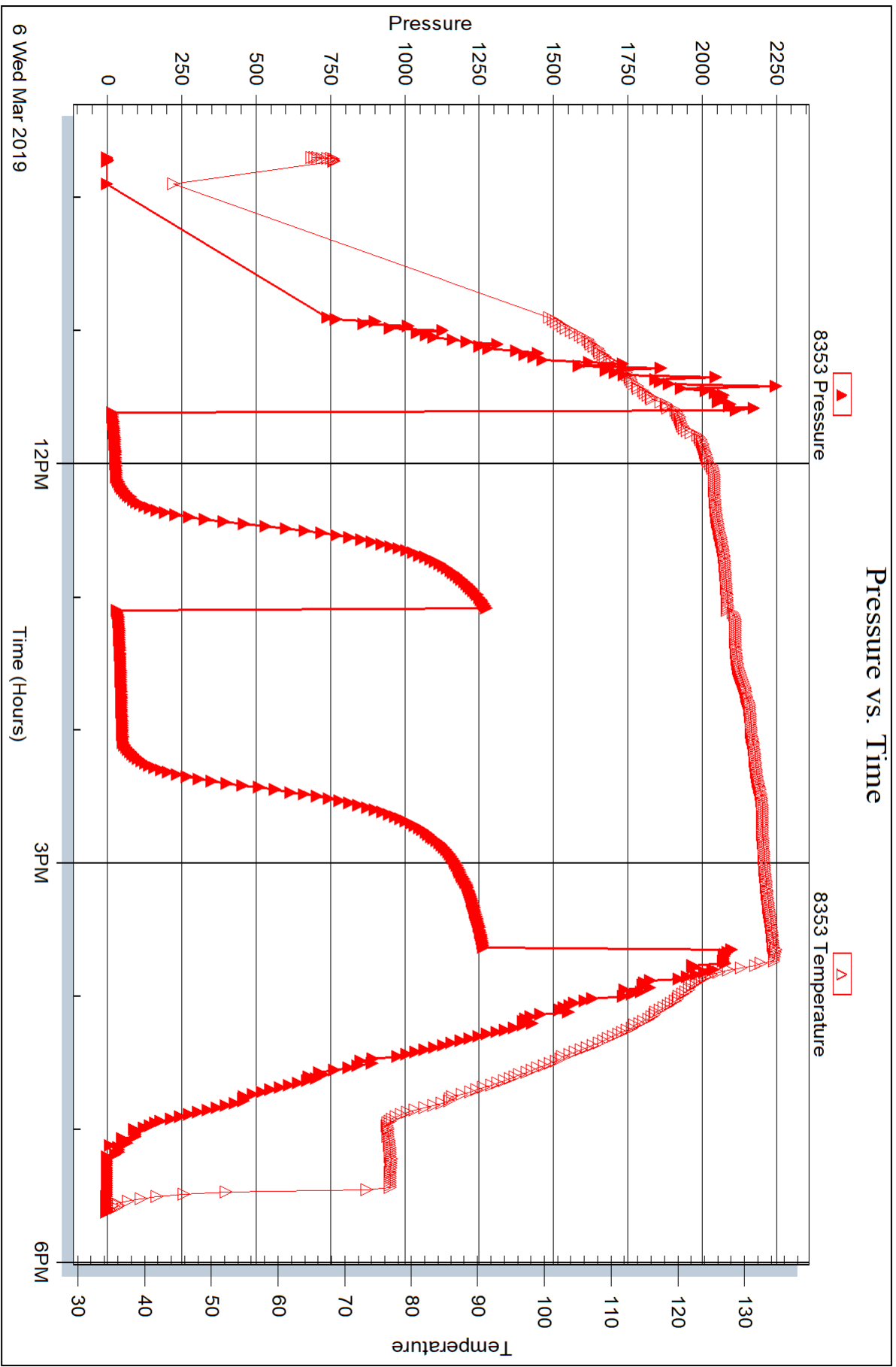
Serial #: 8353

Inside

Murfin Drilling Co Inc.

Frisbie "B" #1-16

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 65294

Printed: 2019.03.08 @ 14:12:03



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Frisbie "B" #1-16

16-2S-35W Rawlins KS

Start Date: 2019.03.07 @ 20:11:00

End Date: 2019.03.08 @ 04:02:09

Job Ticket #: 65259 DST #: 5

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

Printed: 2019.03.08 @ 14:02:55



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65259

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2019.03.07 @ 20:11:00

GENERAL INFORMATION:

Formation: **Ft. Scott - Celia**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:44:30

Time Test Ended: 04:02:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4526.00 ft (KB) To 4660.00 ft (KB) (TVD)

Reference Elevations: 3249.00 ft (KB)

Total Depth: 4660.00 ft (KB) (TVD)

3244.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 38.89 psig @ 4527.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.07 End Date: 2019.03.08

Last Calib.: 2019.03.08

Start Time: 20:11:01 End Time: 04:02:10

Time On Btm: 2019.03.07 @ 22:44:10

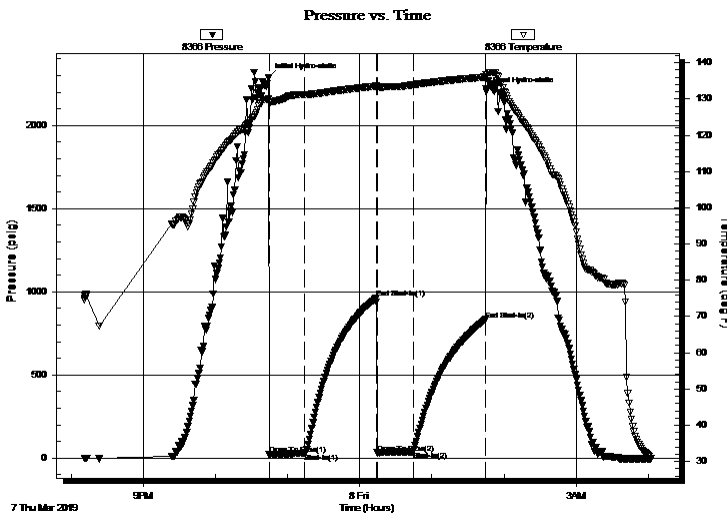
Time Off Btm: 2019.03.08 @ 01:45:10

TEST COMMENT: 30 IF - Blow built to 2" (in diesel)

60 ISI - No return

30 FF - No blow

60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2289.70	129.95	Initial Hydro-static
1	20.84	129.07	Open To Flow (1)
30	28.61	131.17	Shut-In(1)
90	964.04	133.56	End Shut-In(1)
91	32.43	133.11	Open To Flow (2)
120	38.89	133.93	Shut-In(2)
181	832.35	136.06	End Shut-In(2)
181	2201.93	136.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	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 Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65259

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2019.03.07 @ 20:11:00

Tool Information

Drill Pipe:	Length: 4318.00 ft	Diameter: 3.80 inches	Volume: 60.57 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: 20000.00 lb
Drill Collar:	Length: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4526.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	134.00 ft			
Tool Length:	162.00 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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Shut In Tool	5.00			4503.00	
Hydraulic tool	5.00			4508.00	
Jars	5.00			4513.00	
Safety Joint	3.00			4516.00	
Packer	5.00			4521.00	28.00 Bottom Of Top Packer
Packer	5.00			4526.00	
Stubb	1.00			4527.00	
Recorder	0.00	8353	Inside	4527.00	
Recorder	0.00	8366	Outside	4527.00	
Perforations	33.00			4560.00	
Blank Spacing	97.00			4657.00	
Bullnose	3.00			4660.00	134.00 Bottom Packers & Anchor

Total Tool Length: 162.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc.

16-2S-35W Rawlins KS

250 N Water STE 300
Wichita KS 67202

Frisbie "B" #1-16

Job Ticket: 65259

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2019.03.07 @ 20:11:00

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: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

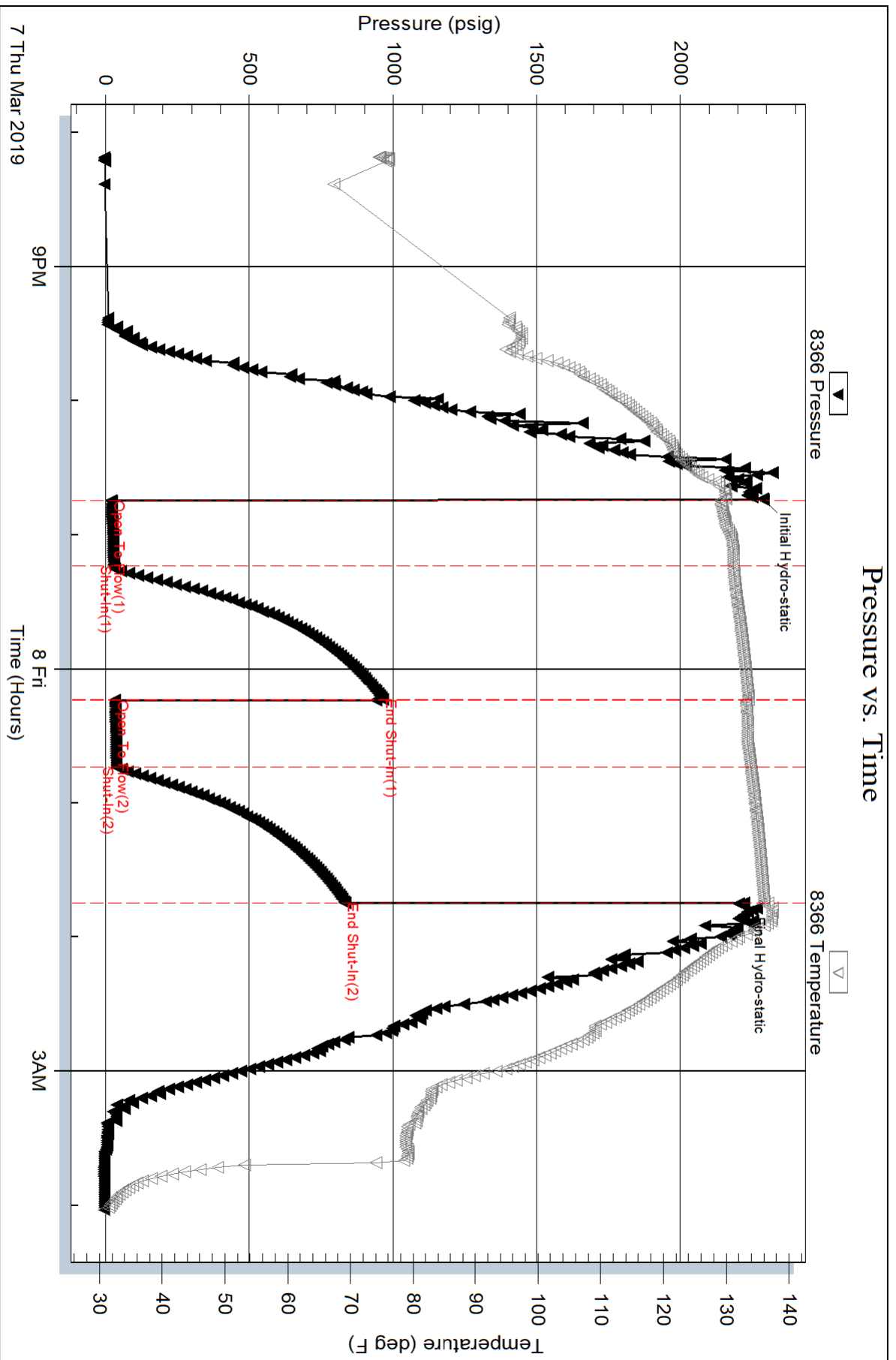
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



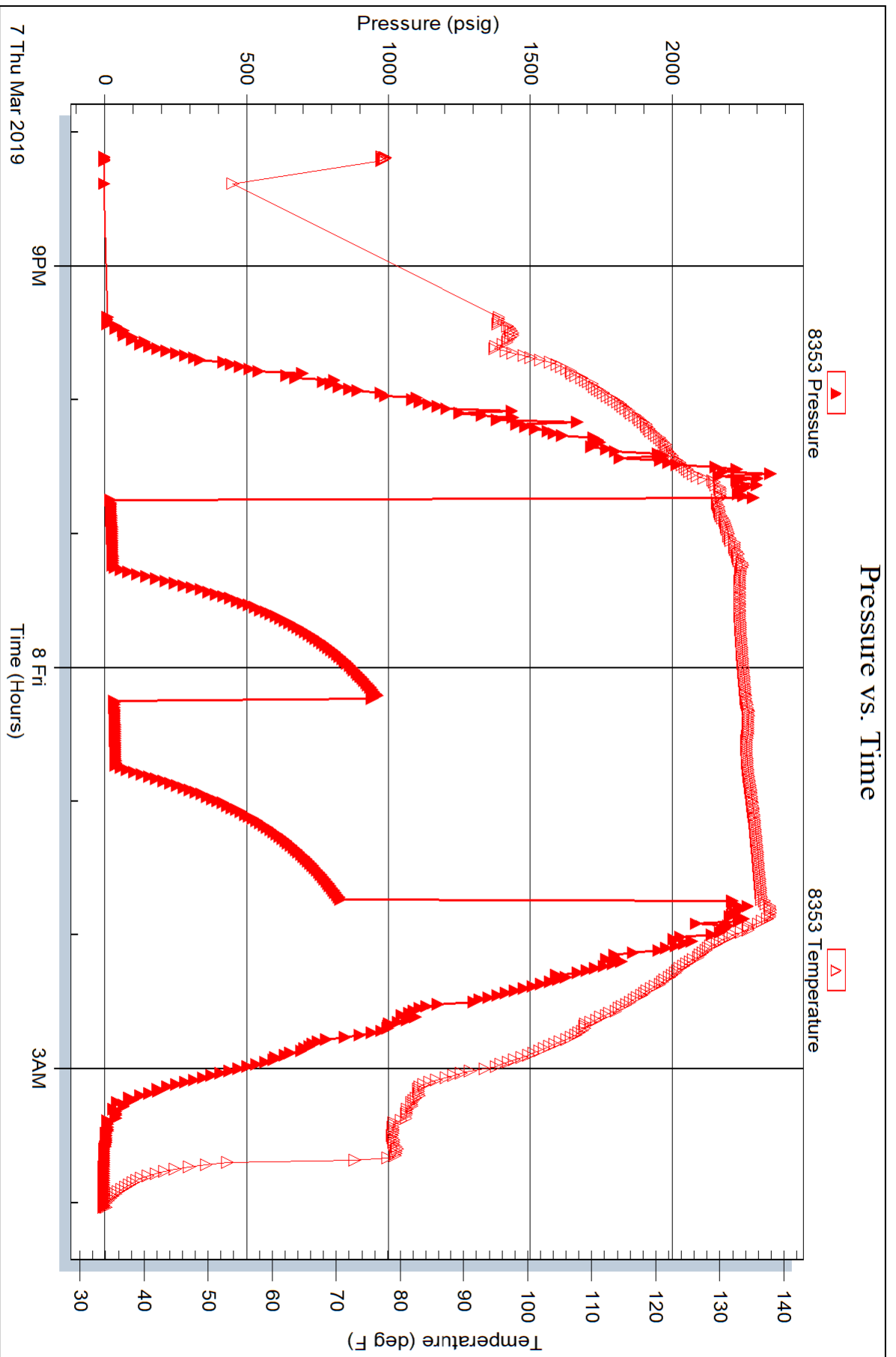
Serial #: 8353

Inside

Murfin Drilling Co Inc.

Frisbie "B" #1-16

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65291

Well Name & No. Frisbie "B" #1-16 Test No. 1 Date 3/4/19
 Company Murfin Drilling Co Inc Elevation 3249 KB 3244 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Shaitaie Rig Murfin #3
 Location: Sec. 16 Twp 2S Rge. 35W Co. Rawlins State KS

Interval Tested 4109 - 4190 Zone Tested LKC "A"
 Anchor Length 81' Drill Pipe Run 3883' Mud Wt. 8.7
 Top Packer Depth 4104 Drill Collars Run 206' Vis 62
 Bottom Packer Depth 4109 Wt. Pipe Run 0' WL 6.0
 Total Depth 4190 Chlorides 600 ppm System LCM 4
 Blow Description 30 IF - Blow built to 3 1/4" (in diesel)
60 ISI - No return
60 FF - Blow built to 2 1/4"
90FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>WCM W/trace oil</u>	<u>trace</u>	<u>20</u>	<u>80</u>	
<u>60'</u>	<u>WCM W/trace oil</u>	<u>trace</u>	<u>40</u>	<u>60</u>	
<u>60'</u>	<u>WCM W/trace oil</u>	<u>trace</u>	<u>45</u>	<u>55</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150' BHT 133° Gravity — API RW .418 @ 34 °F Chlorides 35000 ppm

(A) Initial Hydrostatic <u>2152</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>02:30</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>03:30</u>
(C) First Final Flow <u>49</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>06:40</u>
(D) Initial Shut-In <u>1055</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>10:42</u>
(E) Second Initial Flow <u>52</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:45</u>
(F) Second Final Flow <u>94</u>	<input checked="" type="checkbox"/> Mileage <u>93 RT</u> 93	Comments
(G) Final Shut-In <u>1000</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2011</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
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"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1718</u>
	Sub Total <u>1718</u>	MP/DST Disc't

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. 65292

Well Name & No. Frisbie "B" # 1-16 Test No. 2 Date 3/4/19
 Company Murfin Drilling Co. Inc. Elevation 3249 KB 3244 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharif Rig Murfin # 3
 Location: Sec. 16 Twp 25 Rge. 35W Co. Rawlins State KS

Interval Tested 4190 - 4254 Zone Tested LKC "D"
 Anchor Length 64' Drill Pipe Run 3979' Mud Wt. 9.2
 Top Packer Depth 4185 Drill Collars Run 206' Vis 48
 Bottom Packer Depth 4190 Wt. Pipe Run 0' WL 6.8
 Total Depth 4254 Chlorides 600 ppm System LCM 3
 Blow Description 30 IF - Blow built to 5" (in diesel)
60 ISI - No return
60 FF - Blow built to 5"
90 FSI - No return

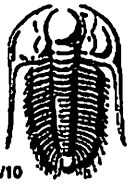
Rec	Feet of	%gas	%oil	%water	%mud
<u>160'</u>	<u>MCO</u>	<u>60</u>		<u>40</u>	
<u>60'</u>	<u>OCM</u>	<u>45</u>		<u>55</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 220' BHT 132' Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2056</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>22:00</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:30</u>
(C) First Final Flow <u>68</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>00:45</u>
(D) Initial Shut-In <u>916</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>04:45</u>
(E) Second Initial Flow <u>76</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>07:00</u>
(F) Second Final Flow <u>106</u>	<input checked="" type="checkbox"/> Mileage <u>93 RT</u> 93	Comments
(G) Final Shut-In <u>891</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2027</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
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"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1718</u>
	Sub Total <u>1718</u>	MP/DST Disc't

Approved By _____ Our Representative Tom 2 Michael

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65293

Well Name & No. Frisbie "B" # 1-18 Test No. 3 Date 3/5/19
 Company Murfin Drilling Co. Inc. Elevation 3249 KB 3244 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Samen Sharifaie Rig Murfin # 3
 Location: Sec. 16 Twp 25 Rge. 35W Co. Kawlin State KS

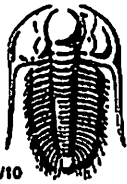
Interval Tested 4254 - 4288 Zone Tested LKL "G"
 Anchor Length 34' Drill Pipe Run 4034 Mud Wt. 9.0
 Top Packer Depth 4249 Drill Collars Run 206' Vis 51
 Bottom Packer Depth 4254 Wt. Pipe Run 0' WL 6.4
 Total Depth 4288 Chlorides 700 ppm System LCM 4
 Blow Description 30 IF - Blow built to 1"
60 IS - No return
70 FF - Blow built to 1/2"
60 FS - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>OCM</u>	<u>20</u>	<u>80</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 131° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2069</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>14:00</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:49</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:58</u>
(D) Initial Shut-In <u>1216</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>19:58</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>21:45</u>
(F) Second Final Flow <u>30</u>	<input checked="" type="checkbox"/> Mileage <u>93 RT</u> 93	Comments
(G) Final Shut-In <u>1174</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2060</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
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"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1718</u>
	Sub Total <u>1718</u>	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. 65294

Well Name & No. Frisbie "B" #1-16 Test No. 4 Date 3/6/19
 Company Murfin Drilling Co. Inc. Elevation 3249 KB 3244 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharifai Rig Murfin #3
 Location: Sec. 16 Twp 2S Rge. 35 W Co. Rawlins State KS

Interval Tested 4344 - 4383 Zone Tested LKC "J"
 Anchor Length 39' Drill Pipe Run 4134' Mud Wt. 8.9
 Top Packer Depth 4339 Drill Collars Run 206' Vis 60
 Bottom Packer Depth 4344 Wt. Pipe Run 0' WL 5.6
 Total Depth 4383 Chlorides 600 ppm System LCM 4

Blow Description 30 IF - Blow built to 3"
60 ISI - Surface blow
60 ~~ISI~~ FF - Blow built to 6"
90 FSI - Blow built to 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>FO</u>	<u>100</u>			
<u>70'</u>	<u>GMCO</u>	<u>10</u>	<u>50</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

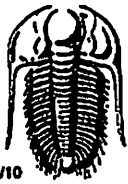
Rec Total 80' BHT 1340 Gravity 400 @ 60° API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2111 Test 1300 T-On Location 09:00
 (B) First Initial Flow 13 Jars 250 T-Started 09:42
 (C) First Final Flow 30 Safety Joint 75 T-Open 11:36
 (D) Initial Shut-In 1275 Circ Sub — T-Pulled 15:38
 (E) Second Initial Flow 32 Hourly Standby — T-Out 17:30
 (F) Second Final Flow 52 Mileage 93 RT 93 Comments 60' GIP
 (G) Final Shut-In 1265 Sampler —
 (H) Final Hydrostatic 2103 Straddle — EM Tool —

Initial Open 30 Shale Packer — Ruined Shale Packer —
 Initial Shut-In 60 Extra Packer — Ruined Packer —
 Final Flow 60 Extra Recorder — Extra Copies —
 Final Shut-In 90 Day Standby — Sub Total 0
 Accessibility — Total 1718
 Sub Total 1718 MP/DST Disc't —

Approved By _____ Our Representative R. J. Wild

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65295

Well Name & No. Frisbie "B" #1-16 Test No. 5 Date 3/7/1982
 Company Martin Drilling Co. Inc. Elevation 3249 KB 3244 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sherifaie Rig Martin # 3
 Location: Sec. 16 Twp 25 Rge. 35W Co. Kawlings State KS

Interval Tested 4526 - 4660 Zone Tested Ft. Scott - Celia
 Anchor Length 134' Drill Pipe Run 4318' Mud Wt. 9.1
 Top Packer Depth 4521 Drill Collars Run 206' Vis 65
 Bottom Packer Depth 4526 Wt. Pipe Run 0' WL 6.0
 Total Depth 4660 Chlorides 600 ppm System LCM 3
 Blow Description 30 IF - Blow built to 2" (in diesel)
60 ISL - No return
30 FF - No blow
60 FSI - No return

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 136° Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>2290</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>19:30</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:11</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:44</u>
(D) Initial Shut-In <u>964</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>01:44</u>
(E) Second Initial Flow <u>32</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>04:00</u>
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage <u>93 RT</u> 93	Comments
(G) Final Shut-In <u>832</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2202</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
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"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1718</u>
	Sub Total <u>1718</u>	MP/DST Disc't

Approved By _____ Our Representative Ryan J. Nichols

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