



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Gambling #3-22

22-2s-37w Cheyenne,KS

Start Date: 2019.10.15 @ 00:41:00

End Date: 2019.10.15 @ 08:45:50

Job Ticket #: 65618 DST #: 1

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

Printed: 2019.10.22 @ 09:42:46



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65618

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2019.10.15 @ 00:41:00

GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:33:40

Time Test Ended: 08:45:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 71

Interval: 4285.00 ft (KB) To 4360.00 ft (KB) (TVD)

Reference Elevations: 3404.00 ft (KB)

Total Depth: 4360.00 ft (KB) (TVD)

3399.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366

Outside

Press@RunDepth: 158.65 psig @ 4286.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.10.15

End Date:

2019.10.15

Last Calib.:

2019.10.16

Start Time: 00:41:01

End Time:

08:45:50

Time On Btm:

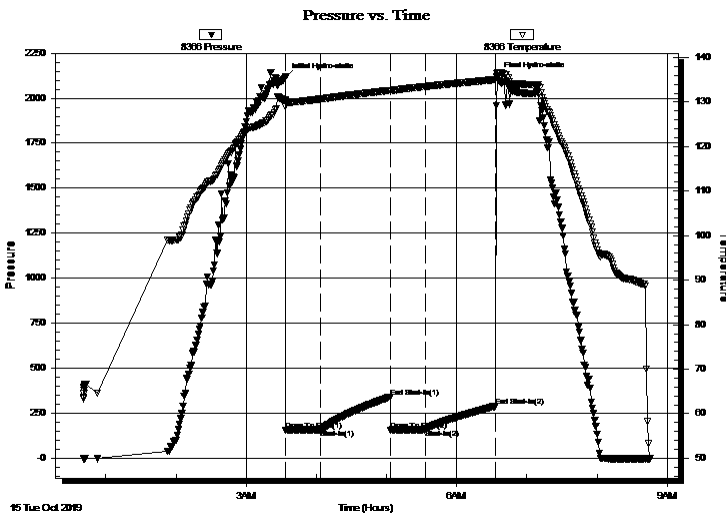
2019.10.15 @ 03:33:30

Time Off Btm:

2019.10.15 @ 06:34:20

TEST COMMENT: 30 IF - Surface blow
60 ISI - No return
30 FF - No blow
60 FSI - No return

PRESSURE SUMMARY



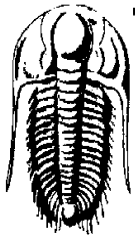
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.92	130.19	Initial Hydro-static
1	154.88	128.93	Open To Flow (1)
30	158.61	130.66	Shut-In(1)
90	340.72	132.63	End Shut-In(1)
91	154.43	132.53	Open To Flow (2)
120	158.65	133.47	Shut-In(2)
180	287.70	135.03	End Shut-In(2)
181	2119.08	136.32	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
270.00	Mud 100%M	2.18

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita KS 67202
ATTN: Saman Sharifaie

22-2s-37w Cheyenne,KS
Gambling #3-22
Job Ticket: 65618 DST#: 1
Test Start: 2019.10.15 @ 00:41:00

GENERAL INFORMATION:

Formation: LKC " A "
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:33:40
Time Test Ended: 08:45:50
Interval: 4285.00 ft (KB) To 4360.00 ft (KB) (TVD)
Total Depth: 4360.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Nichols
Unit No: 71
Reference Elevations: 3404.00 ft (KB)
3399.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: psig @ 4286.00 ft (KB)
Start Date: 2019.10.15 End Date: 2019.10.15
Start Time: 00:41:01 End Time: 08:45:40

Capacity: 8000.00 psig
Last Calib.: 2019.10.16
Time On Btm:
Time Off Btm:

TEST COMMENT: 30 IF - Surface blow
60 ISI - No return
30 FF - No blow
60 FSI - No return

PRESSURE SUMMARY

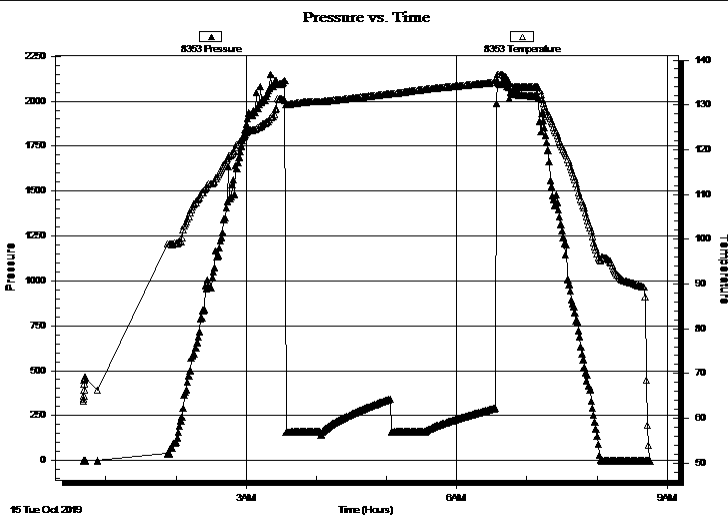


Table with 4 columns: Time (Min.), Pressure (psig), Temp (deg F), and Annotation.

Recovery

Table with 3 columns: Length (ft), Description, and Volume (bbl). Row 1: 270.00, Mud 100%M, 2.18.

Gas Rates

Table with 4 columns: Choke (inches), Pressure (psig), and Gas Rate (Mcf/d).



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65618

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2019.10.15 @ 00:41:00

Tool Information

Drill Pipe:	Length: 4105.00 ft	Diameter: 3.80 inches	Volume: 57.58 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: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 58.45 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4285.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	75.00 ft				
Tool Length:	103.00 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			4262.00	
Hydraulic tool	5.00			4267.00	
Jars	5.00			4272.00	
Safety Joint	3.00			4275.00	
Packer	5.00			4280.00	28.00 Bottom Of Top Packer
Packer	5.00			4285.00	
Stubb	1.00			4286.00	
Recorder	0.00	8353	Inside	4286.00	
Recorder	0.00	8366	Outside	4286.00	
Perforations	6.00			4292.00	
Blank Spacing	65.00			4357.00	
Bullnose	3.00			4360.00	75.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65618

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2019.10.15 @ 00:41:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
270.00	Mud 100%M	2.184

Total Length: 270.00 ft Total Volume: 2.184 bbl

Num Fluid Samples: 0

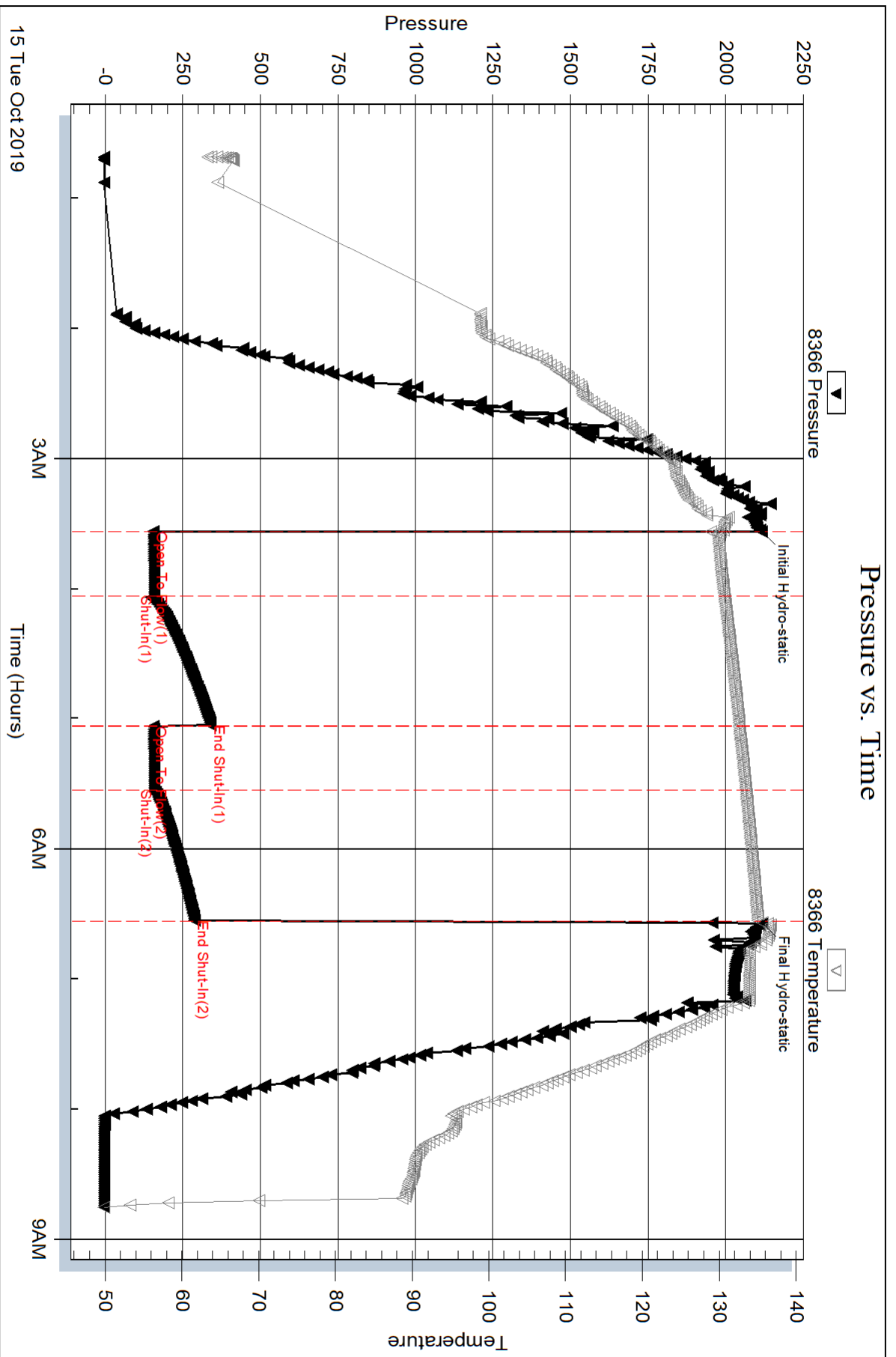
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



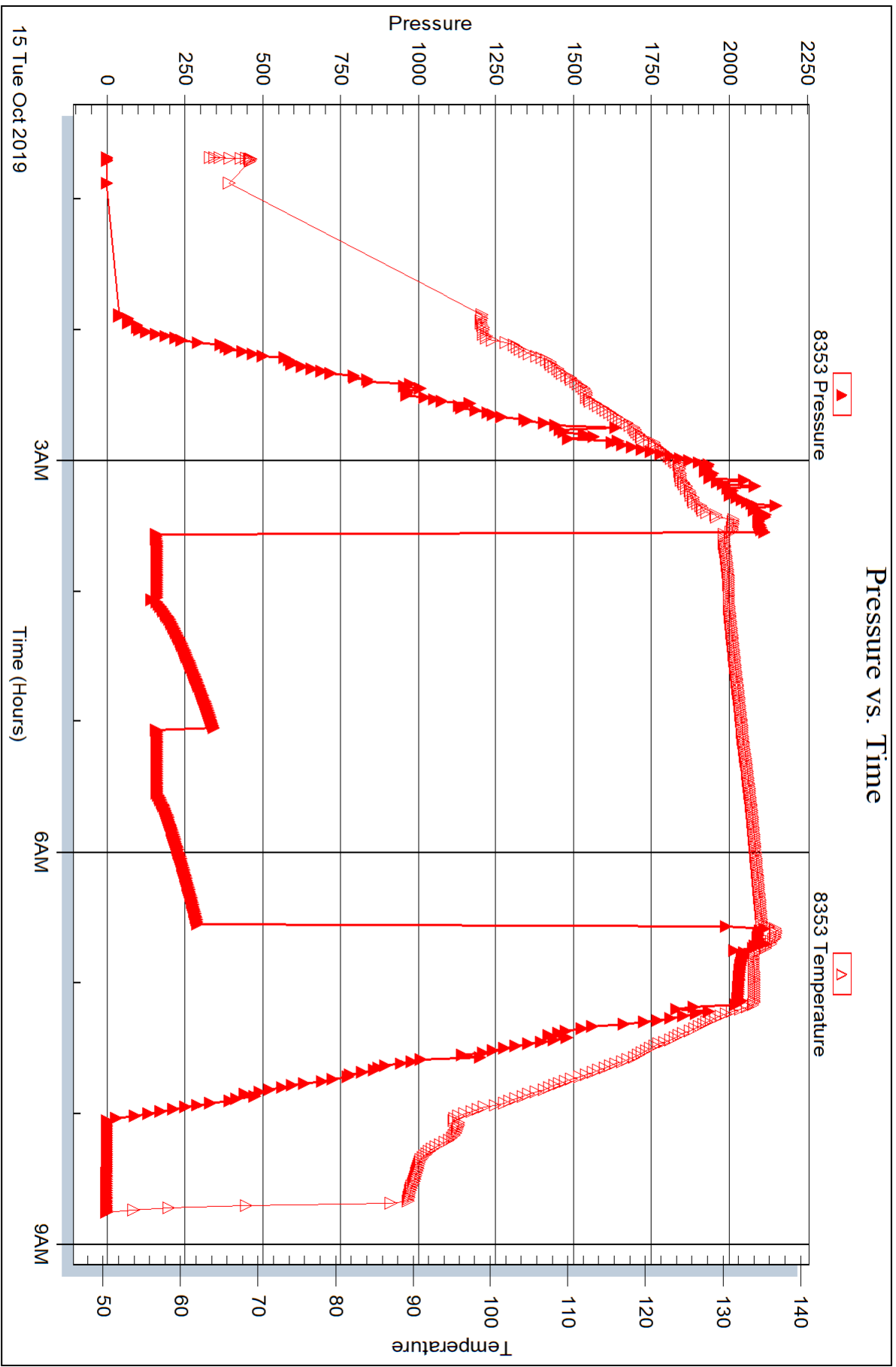
Serial #: 8353

Inside

Murfin Drilling Co.

Gambing #3-22

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65618

Printed: 2019.10.22 @ 09:42:47



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Gambling #3-22

22-2s-37w Cheyenne,KS

Start Date: 2019.10.16 @ 18:08:00

End Date: 2019.10.17 @ 03:59:19

Job Ticket #: 65169 DST #: 2

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

Printed: 2019.10.22 @ 09:35:10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65169

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2019.10.16 @ 18:08:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:53:00

Time Test Ended: 03:59:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4360.00 ft (KB) To 4426.00 ft (KB) (TVD)

Reference Elevations: 3404.00 ft (KB)

Total Depth: 4426.00 ft (KB) (TVD)

3399.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366

Outside

Press@RunDepth: 67.51 psig @ 4361.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.10.16

End Date:

2019.10.17

Last Calib.: 2019.10.17

Start Time: 18:08:01

End Time:

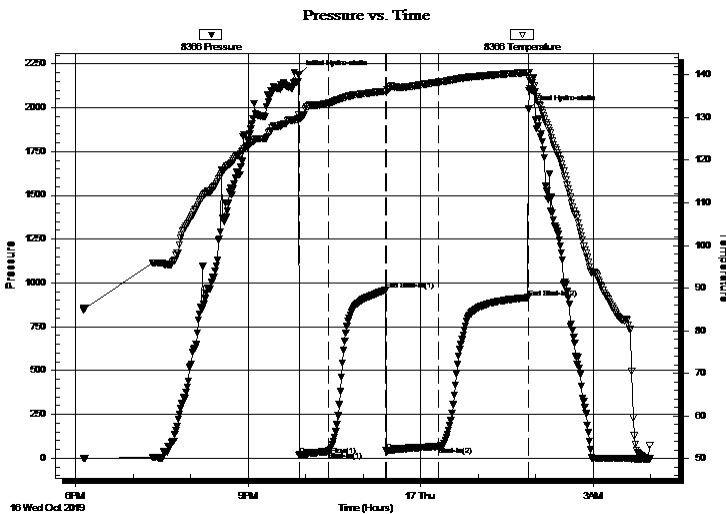
03:59:19

Time On Btm: 2019.10.16 @ 21:52:50

Time Off Btm: 2019.10.17 @ 01:52:50

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.92	130.66	Initial Hydro-static
1	16.72	129.75	Open To Flow (1)
31	36.58	133.31	Shut-In(1)
91	958.26	136.17	End Shut-In(1)
91	41.18	135.94	Open To Flow (2)
146	67.51	138.28	Shut-In(2)
240	916.30	140.57	End Shut-In(2)
240	1991.36	140.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCM - 40%o - 60%M	0.92

* Recovery from multiple tests

Gas Rates

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



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TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita KS 67202
ATTN: Saman Sharifaie

22-2s-37w Cheyenne, KS
Gambling #3-22
Job Ticket: 65169 **DST#: 2**
Test Start: 2019.10.16 @ 18:08:00

GENERAL INFORMATION:

Formation:	LKC " B - D "			Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock:	ft (KB)		Tester:	Ryan Nichols
Time Tool Opened:	21:53:00			Unit No:	71
Time Test Ended:	03:59:19			Reference Elevations:	3404.00 ft (KB)
Interval:	4360.00 ft (KB) To 4426.00 ft (KB) (TVD)				3399.00 ft (CF)
Total Depth:	4426.00 ft (KB) (TVD)			KB to GR/CF:	5.00 ft
Hole Diameter:	7.88 inches	Hole Condition:	Good		

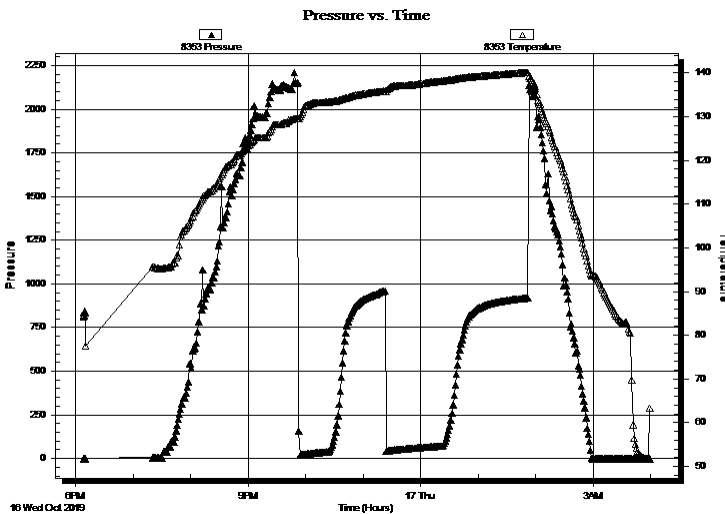
Serial #: 8353

Inside

Press@RunDepth:	psig @	4361.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2019.10.16	End Date:	2019.10.17	Last Calib.:	2019.10.17
Start Time:	18:08:01	End Time:	03:59:10	Time On Btm:	
				Time Off Btm:	

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

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCM - 40%o - 60%M	0.92

* 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.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65169

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2019.10.16 @ 18:08:00

Tool Information

Drill Pipe:	Length: 4168.00 ft	Diameter: 3.80 inches	Volume: 58.47 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: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4360.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 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			4337.00	
Hydraulic tool	5.00			4342.00	
Jars	5.00			4347.00	
Safety Joint	3.00			4350.00	
Packer	5.00			4355.00	28.00 Bottom Of Top Packer
Packer	5.00			4360.00	
Stubb	1.00			4361.00	
Recorder	0.00	8353	Inside	4361.00	
Recorder	0.00	8366	Outside	4361.00	
Perforations	29.00			4390.00	
Blank Spacing	33.00			4423.00	
Bullnose	3.00			4426.00	66.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65169

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2019.10.16 @ 18:08:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OCM - 40%o - 60%M	0.922

Total Length: 180.00 ft Total Volume: 0.922 bbl

Num Fluid Samples: 0

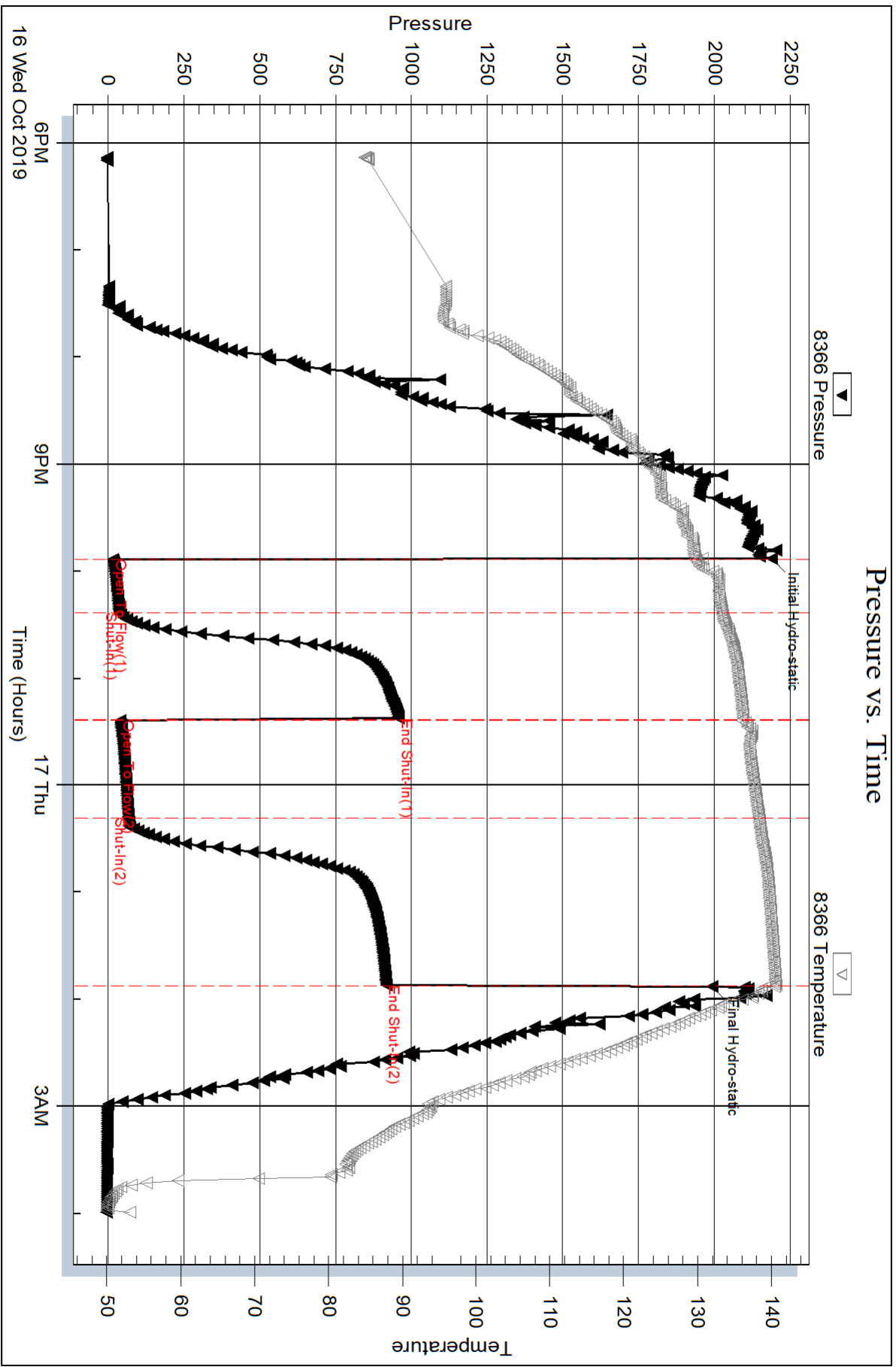
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



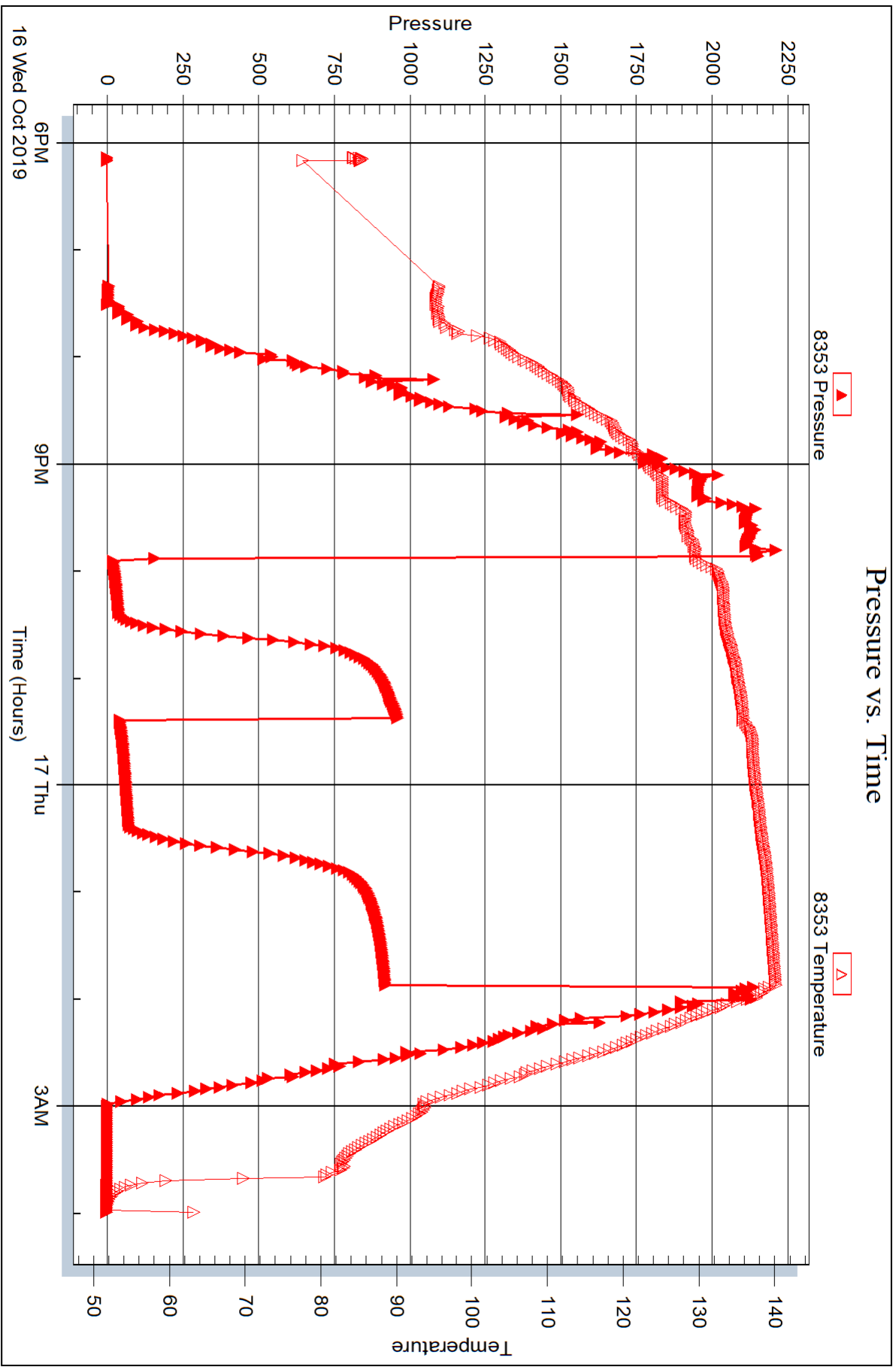
Serial #: 8353

Inside

Murfin Drilling Co.

Gambing #3-22

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Gambling #3-22

22-2s-37w Cheyenne,KS

Start Date: 2019.10.17 @ 12:27:00

End Date: 2019.10.17 @ 20:27:20

Job Ticket #: 65620 DST #: 3

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

Printed: 2019.10.22 @ 09:29:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-2s-37w Cheyenne, KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65620

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2019.10.17 @ 12:27:00

GENERAL INFORMATION:

Formation: **LKC " G "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:13:40

Time Test Ended: 20:27:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4427.00 ft (KB) To 4470.00 ft (KB) (TVD)

Reference Elevations: 3404.00 ft (KB)

Total Depth: 4470.00 ft (KB) (TVD)

3399.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 45.48 psig @ 4428.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.10.17 End Date: 2019.10.17

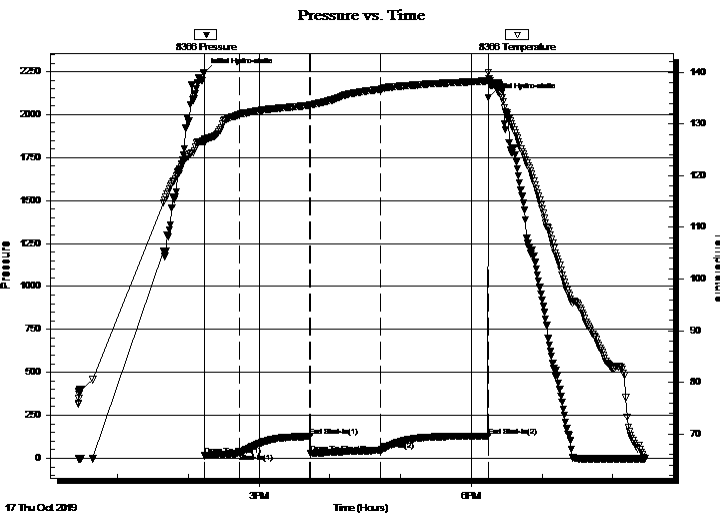
Last Calib.: 2019.10.17

Start Time: 12:27:01 End Time: 20:27:20

Time On Btm: 2019.10.17 @ 14:13:30

Time Off Btm: 2019.10.17 @ 18:14:30

TEST COMMENT: 30 IF - Blow built to 4"
60 ISI - No return
60 FF - Lost 10' mud w hen opened tool, 3" blow built to 10 1/2"
90 FSI - Surface return died @ 10 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2245.49	127.01	Initial Hydro-static
1	14.47	126.24	Open To Flow (1)
30	27.76	131.84	Shut-In(1)
90	125.69	133.61	End Shut-In(1)
91	26.56	133.58	Open To Flow (2)
150	45.48	136.69	Shut-In(2)
241	127.44	138.33	End Shut-In(2)
241	2097.01	139.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	GOCM - 10%G - 35%o - 65%M	0.39
0.00	160' 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.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65620

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2019.10.17 @ 12:27:00

Tool Information

Drill Pipe:	Length: 4233.00 ft	Diameter: 3.80 inches	Volume: 59.38 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: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4427.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 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			4404.00	
Hydraulic tool	5.00			4409.00	
Jars	5.00			4414.00	
Safety Joint	3.00			4417.00	
Packer	5.00			4422.00	28.00 Bottom Of Top Packer
Packer	5.00			4427.00	
Stubb	1.00			4428.00	
Recorder	0.00	8353	Inside	4428.00	
Recorder	0.00	8366	Outside	4428.00	
Perforations	6.00			4434.00	
Blank Spacing	33.00			4467.00	
Bullnose	3.00			4470.00	43.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65620

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2019.10.17 @ 12:27:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	GOCM - 10%G - 35%o - 65%M	0.393
0.00	160' GIP	0.000

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

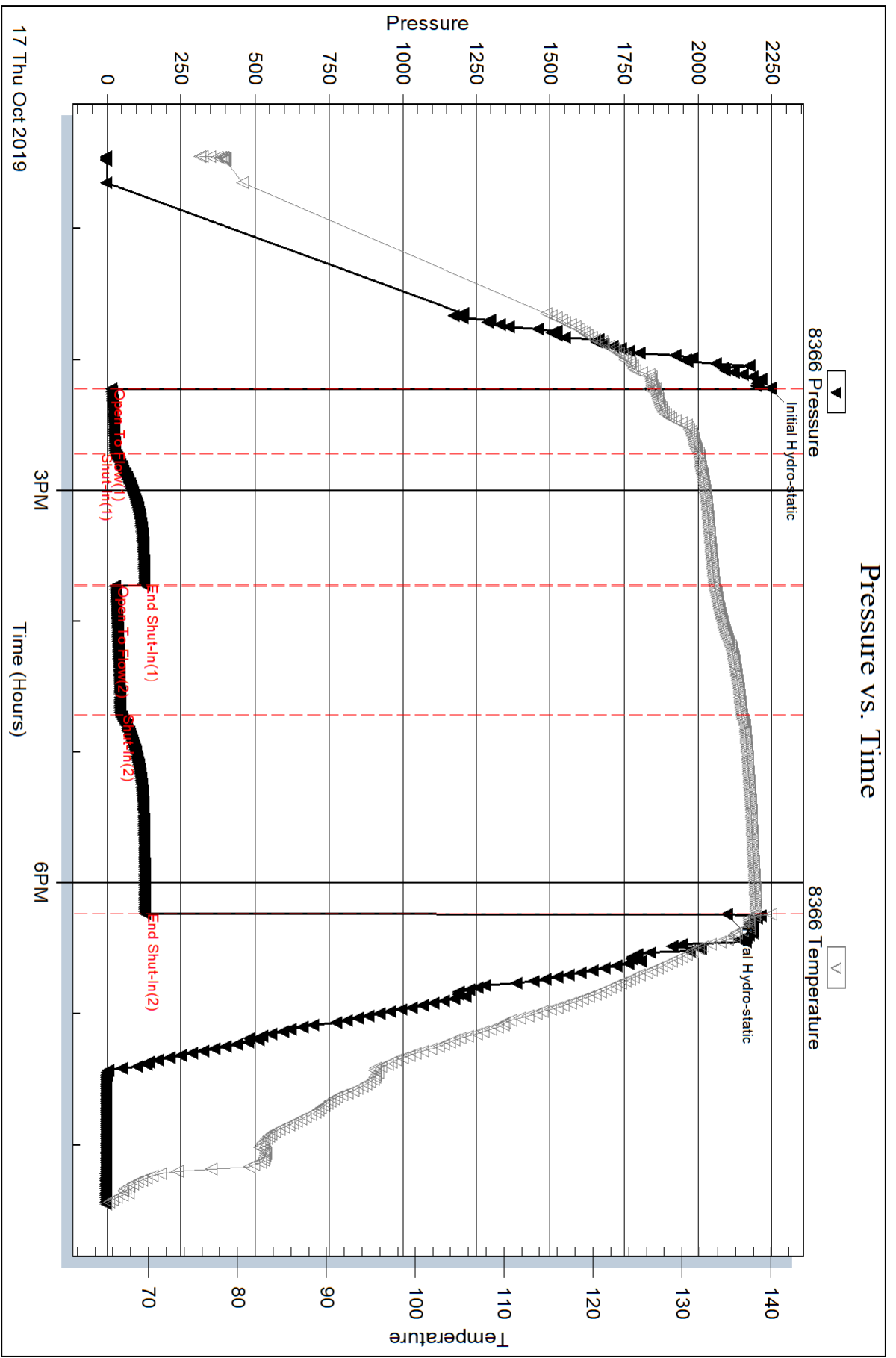
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



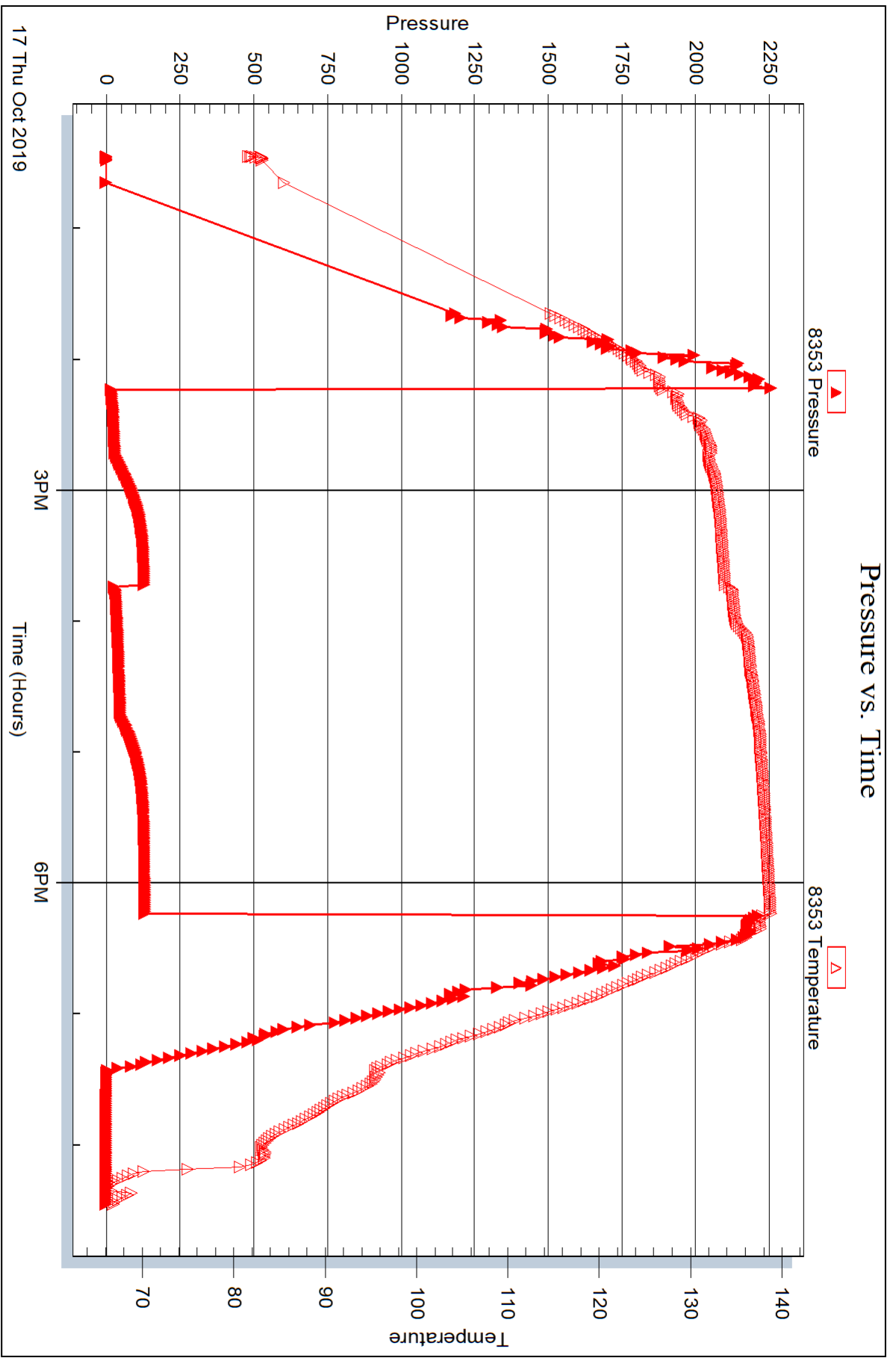
Serial #: 8353

Inside

Murfin Drilling Co.

Gambling #3-22

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Gambling #3-22

22-2s-37w Cheyenne,KS

Start Date: 2019.10.18 @ 08:55:00

End Date: 2019.10.18 @ 17:19:20

Job Ticket #: 65621 DST #: 4

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

Printed: 2019.10.22 @ 09:28:05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65621

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2019.10.18 @ 08:55:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:59:40

Time Test Ended: 17:19:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4470.00 ft (KB) To 4560.00 ft (KB) (TVD)

Reference Elevations: 3404.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

3399.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 94.06 psig @ 4471.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.10.18

End Date: 2019.10.18

Last Calib.: 2019.10.18

Start Time: 08:55:01

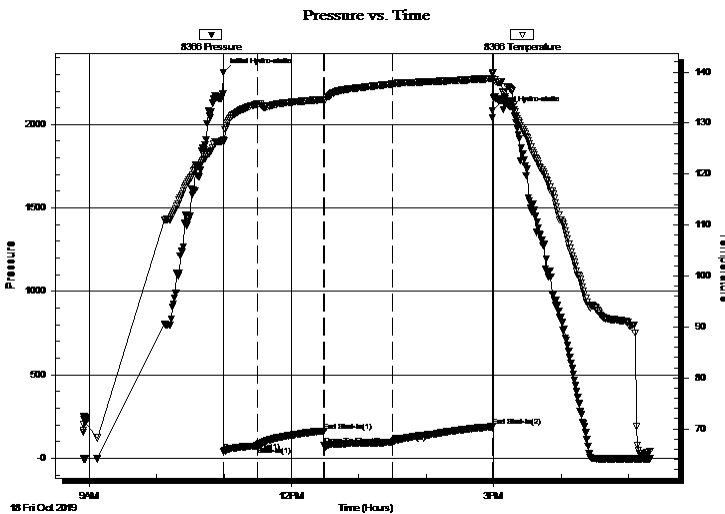
End Time: 17:19:20

Time On Btm: 2019.10.18 @ 10:59:20

Time Off Btm: 2019.10.18 @ 14:59:09

TEST COMMENT: 30 IF - BoB @ 12 1/2"
60 ISI - Surface blow return died @ 35 mins
60 FF - BoB @ 3 mins
90 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2312.06	126.67	Initial Hydro-static
1	40.08	126.61	Open To Flow (1)
31	73.75	133.81	Shut-In(1)
90	162.97	134.64	End Shut-In(1)
90	75.14	134.59	Open To Flow (2)
151	94.06	137.66	Shut-In(2)
240	188.89	138.72	End Shut-In(2)
240	2084.64	139.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM - 30%G - 30%o - 40%M	0.30
60.00	GOCM - 10%G - 20%G - 70%M	0.30
60.00	GOCM - 10%G - 10%o - 80%M	0.33
30.00	VSOCM - 3%o - 97%M	0.42

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.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65621

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2019.10.18 @ 08:55:00

Tool Information

Drill Pipe:	Length: 4295.00 ft	Diameter: 3.80 inches	Volume: 60.25 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: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 61.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4470.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4447.00	
Hydraulic tool	5.00			4452.00	
Jars	5.00			4457.00	
Safety Joint	3.00			4460.00	
Packer	5.00			4465.00	28.00 Bottom Of Top Packer
Packer	5.00			4470.00	
Stubb	1.00			4471.00	
Recorder	0.00	8353	Inside	4471.00	
Recorder	0.00	8366	Outside	4471.00	
Perforations	21.00			4492.00	
Blank Spacing	65.00			4557.00	
Bullnose	3.00			4560.00	90.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65621

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2019.10.18 @ 08:55:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOCM - 30%G - 30%o - 40%M	0.295
60.00	GOCM - 10%G- 20%G - 70%M	0.295
60.00	GOCM - 10%G - 10%o - 80%M	0.332
30.00	VSOCM - 3%o - 97%M	0.421

Total Length: 210.00 ft

Total Volume: 1.343 bbl

Num Fluid Samples: 0

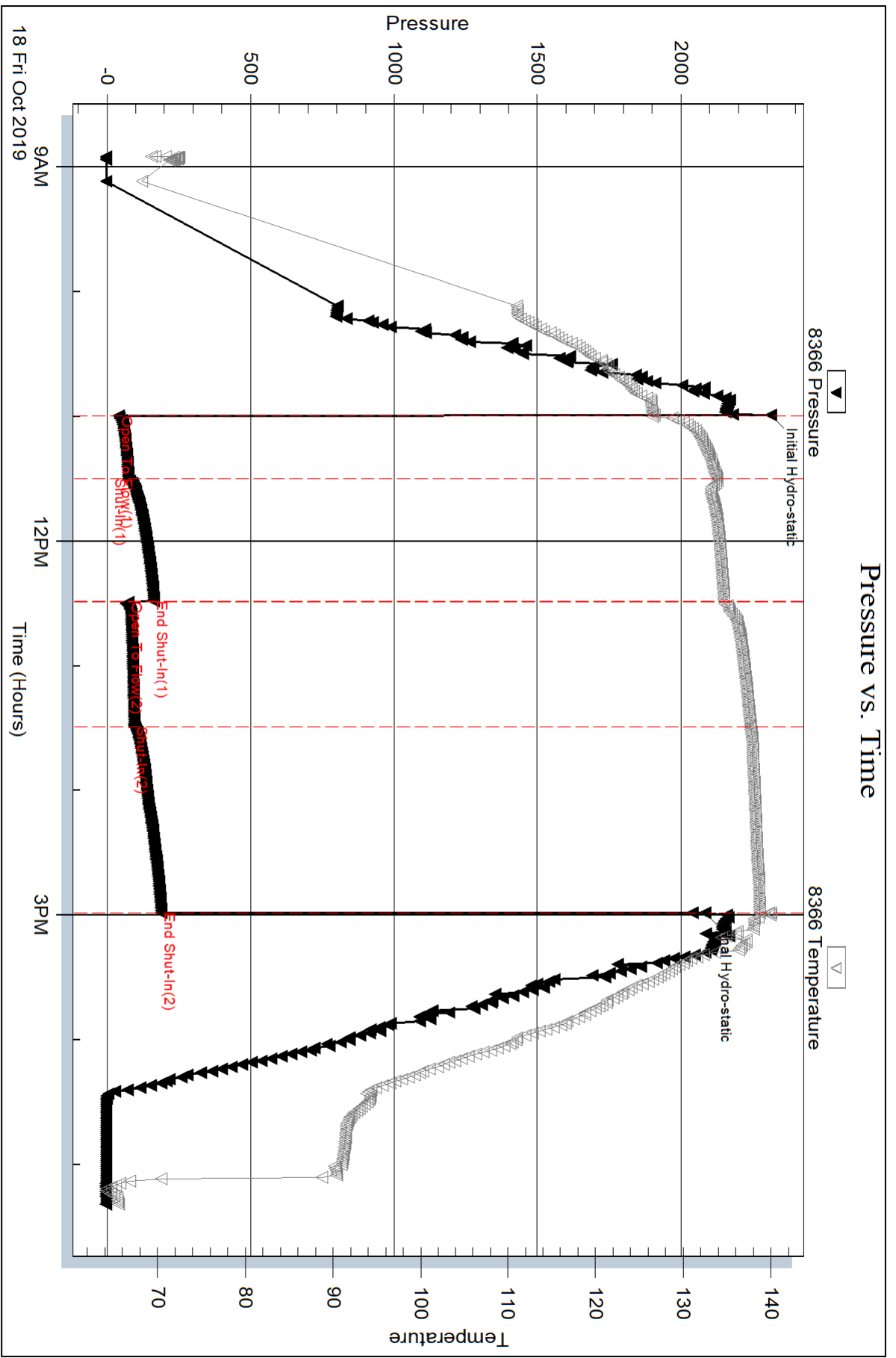
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



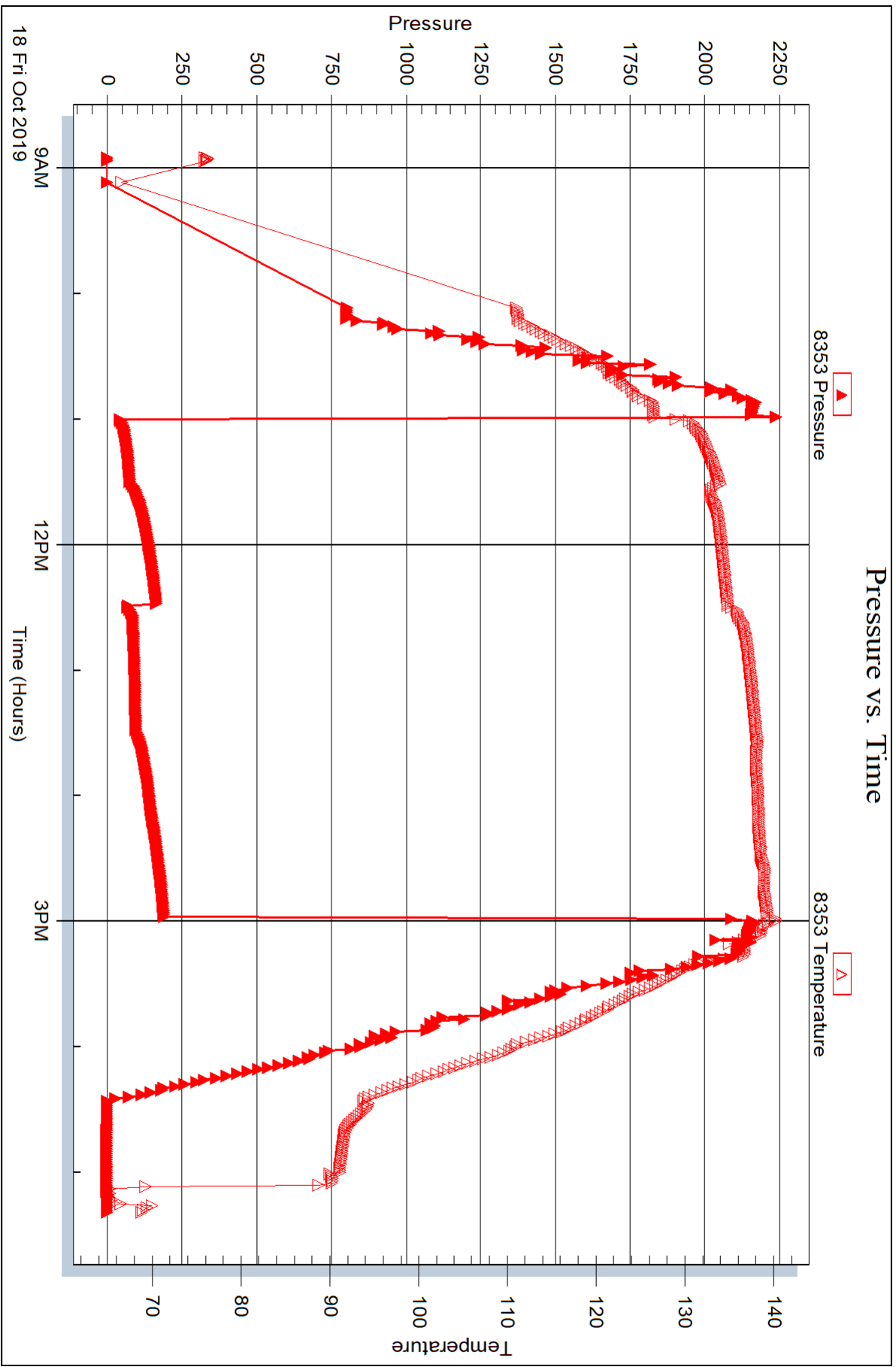
Serial #: 8353

Inside

Murfin Drilling Co.

Gambling #3-22

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Gambling #3-22

22-2s-37w Cheyenne,KS

Start Date: 2019.10.19 @ 20:40:00

End Date: 2019.10.20 @ 04:56:39

Job Ticket #: 65622 DST #: 5

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

Printed: 2019.10.22 @ 09:27:37



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-2s-37w Cheyenne, KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65622

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2019.10.19 @ 20:40:00

GENERAL INFORMATION:

Formation: **Ft. Scott - Celia**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:32:40
 Time Test Ended: 04:56:39
 Interval: **4702.00 ft (KB) To 4850.00 ft (KB) (TVD)**
 Total Depth: 4850.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 71
 Reference Elevations: 3404.00 ft (KB)
 3399.00 ft (CF)
 KB to GR/CF: 5.00 ft

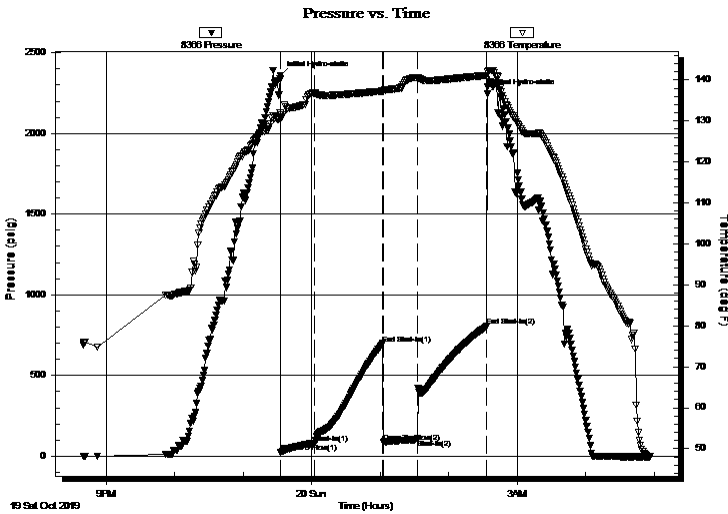
Serial #: 8366

Outside

Press@RunDepth: 102.88 psig @ 4703.00 ft (KB)
 Start Date: 2019.10.19 End Date: 2019.10.20
 Start Time: 20:40:01 End Time: 04:56:40
 Capacity: 8000.00 psig
 Last Calib.: 2019.10.20
 Time On Btm: 2019.10.19 @ 23:32:30
 Time Off Btm: 2019.10.20 @ 02:33:40

TEST COMMENT: 30 IF - Blow built to 5"
 60 ISI - No return
 30 FF - Blow built to 3 1/4"
 60 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2356.79	131.54	Initial Hydro-static
1	23.57	130.67	Open To Flow (1)
30	81.88	136.79	Shut-In(1)
90	696.43	137.29	End Shut-In(1)
90	86.47	137.15	Open To Flow (2)
120	102.88	140.40	Shut-In(2)
181	804.68	141.10	End Shut-In(2)
182	2243.68	141.92	Final Hydro-static

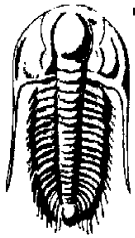
Recovery

Length (ft)	Description	Volume (bbl)
200.00	OCM - 35%o - 65%M	1.20

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

250 N. Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

22-2s-37w Cheyenne,KS**Gambling #3-22**

Job Ticket: 65622

DST#: 5

Test Start: 2019.10.19 @ 20:40:00

GENERAL INFORMATION:

Formation: **Ft. Scott - Celia**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:32:40

Time Test Ended: 04:56:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4702.00 ft (KB) To 4850.00 ft (KB) (TVD)

Total Depth: 4850.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3404.00 ft (KB)

3399.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8353 Inside

Press@RunDepth: psig @ 4703.00 ft (KB)

Start Date: 2019.10.19

End Date:

2019.10.20

Start Time: 20:40:01

End Time:

04:56:40

Capacity: 8000.00 psig

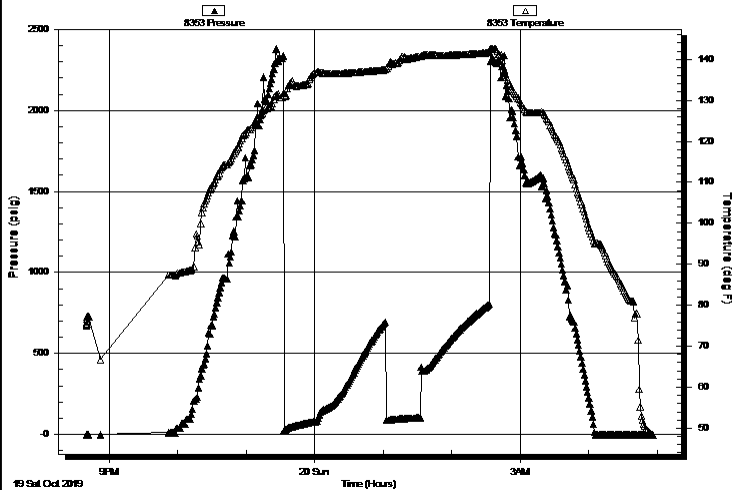
Last Calib.:

2019.10.20

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - Blow built to 5"
60 ISI - No return
30 FF - Blow built to 3 1/4"
60 FSI - No return

Pressure vs. Time

PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
200.00	OCM - 35%o - 65%M	1.20

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.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65622

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2019.10.19 @ 20:40:00

Tool Information

Drill Pipe:	Length: 4515.00 ft	Diameter: 3.80 inches	Volume: 63.33 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: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 64.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4702.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	148.00 ft			
Tool Length:	176.00 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			4679.00	
Hydraulic tool	5.00			4684.00	
Jars	5.00			4689.00	
Safety Joint	3.00			4692.00	
Packer	5.00			4697.00	28.00 Bottom Of Top Packer
Packer	5.00			4702.00	
Stubb	1.00			4703.00	
Recorder	0.00	8353	Inside	4703.00	
Recorder	0.00	8366	Outside	4703.00	
Perforations	15.00			4718.00	
Blank Spacing	129.00			4847.00	
Bullnose	3.00			4850.00	148.00 Bottom Packers & Anchor

Total Tool Length: 176.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-2s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Gambling #3-22

Job Ticket: 65622

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2019.10.19 @ 20:40:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	OCM - 35%o - 65%M	1.202

Total Length: 200.00 ft Total Volume: 1.202 bbl

Num Fluid Samples: 0

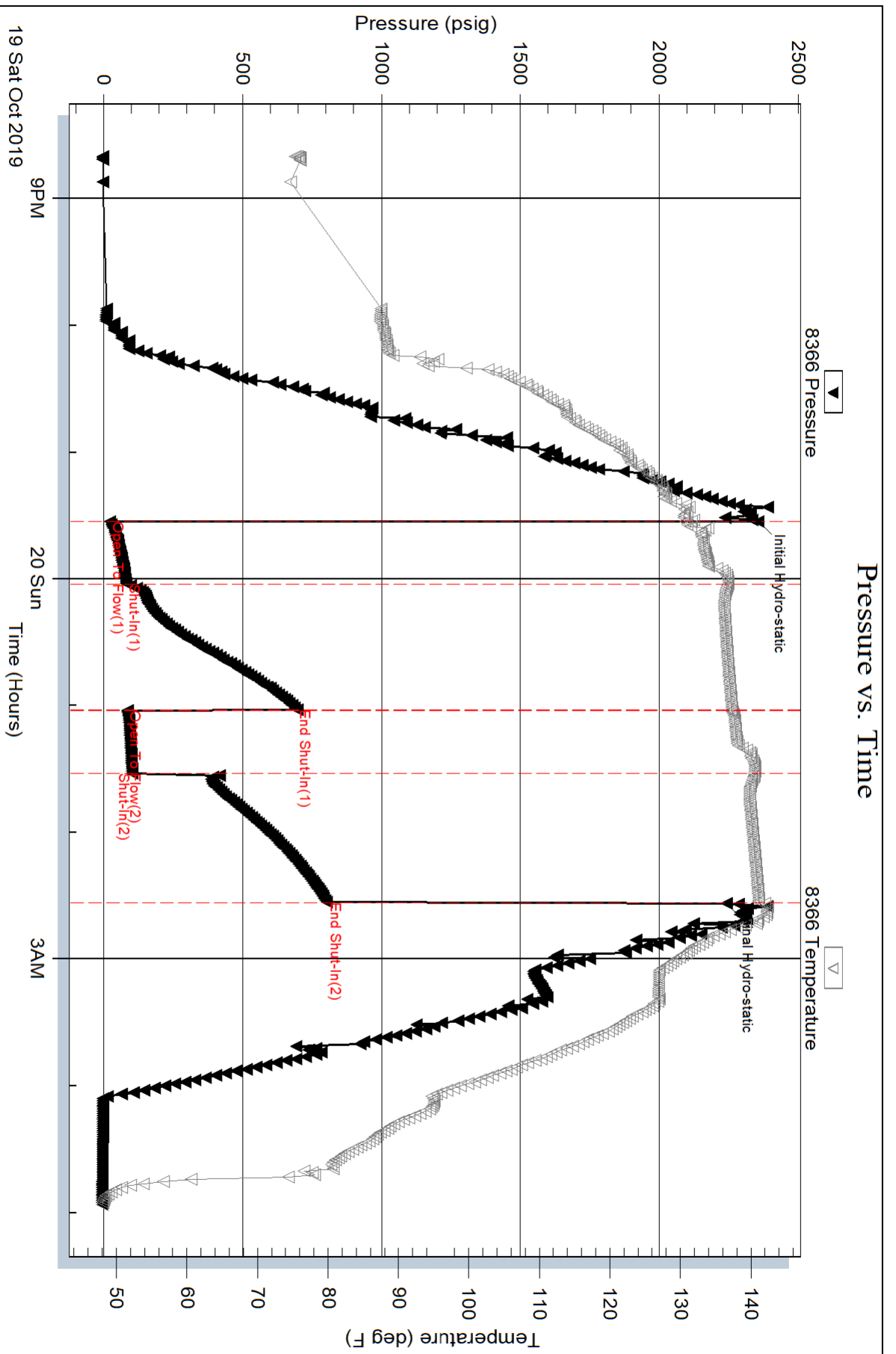
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



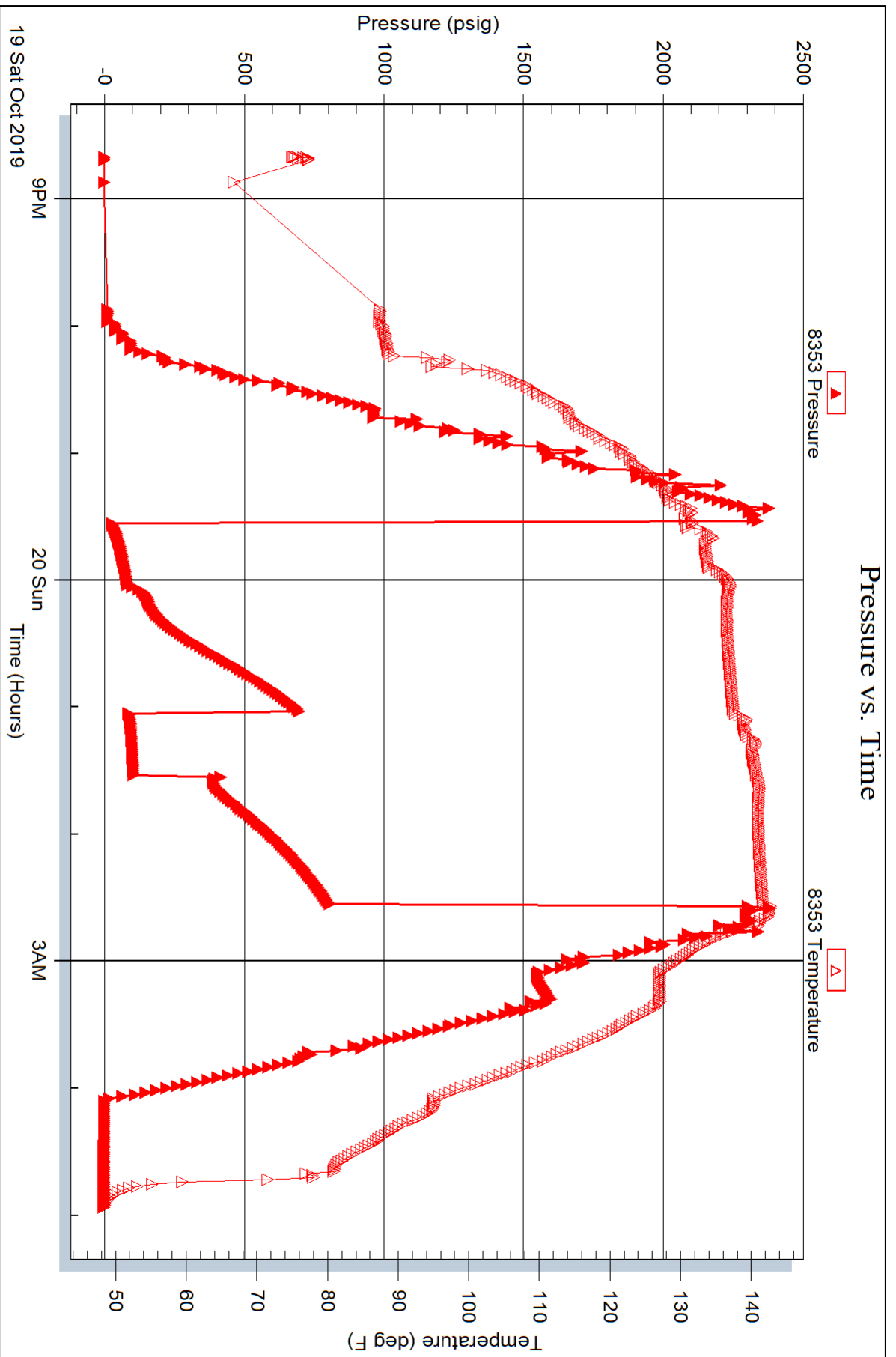
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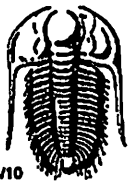
Inside

Murfin Drilling Co.

Gambing #3-22

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65618

Well Name & No. Gamblin # 3-22 Test No. 1 Date 10/15/19
 Company Martin Drilling Co. Elevation 3404 KB 3399 GL
 Address ~~250 N. Water~~ 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sherrif Rig Martin # 3
 Location: Sec. 22 Twp 2S Rge. 37W Co. Cheyenne State KS

Interval Tested 4285 - 4360 Zone Tested 2KC "A"
 Anchor Length 75' Drill Pipe Run 4105' Mud Wt. 8.9
 Top Packer Depth 4280 Drill Collars Run 176' Vls 58
 Bottom Packer Depth 4285 Wt. Pipe Run 0' WL 6.4
 Total Depth 4360 Chlorides 700 ppm System LCM 4

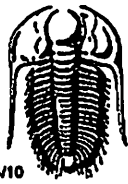
Blow Description 30 IF - Surface blow
60 ISI - No return
30 FF - No blow
60 FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>270'</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 270' BHT 135° Gravity ✓ API RW ✓ @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2117</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>23:30</u>
(B) First Initial Flow <u>159</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:41</u>
(C) First Final Flow <u>159</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>03:33</u>
(D) Initial Shut-In <u>341</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>06:33</u>
(E) Second Initial Flow <u>154</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>08:30</u>
(F) Second Final Flow <u>159</u>	<input checked="" type="checkbox"/> Mileage <u>118 RT</u>	Comments _____
(G) Final Shut-In <u>288</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> EM Tool
(H) Final Hydrostatic <u>2119</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>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1743</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1743</u>	

Approved By _____ Our Representative Ry J Nichols
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65619

Well Name & No. Gamblin # 3-22 Test No. 2 Date 10/16/19
 Company Murfin Drilling Co. Elevation 3404 KB 3399 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin # 3
 Location: Sec. 22 Twp 2S Rge. 37 W Co. Cheyenne State KS

Interval Tested 4360-4426 Zone Tested 2KC "B-D"
 Anchor Length 66' Drill Pipe Run 4168' Mud Wt. 9.2
 Top Packer Depth 4355 Drill Collars Run 176' Vis 59
 Bottom Packer Depth 4360 Wt. Pipe Run 0' WL 6.0
 Total Depth 4426 Chlorides 1400 ppm System LCM 4
 Blow Description 30 IF - Blow built to 2"
60 ISF - No return
60 KF - Blow built to 2 1/2"
90 FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>180'</u>	<u>OCM</u>	<u>40</u>		<u>60</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

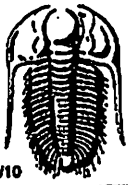
Rec Total 180' BHT 1410 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2189</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>17:45</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:09</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>21:53</u>
(D) Initial Shut-In <u>958</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>01:53</u>
(E) Second Initial Flow <u>41</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>03:45</u>
(F) Second Final Flow <u>68</u>	<input checked="" type="checkbox"/> Mileage <u>118 RT</u>	Comments
(G) Final Shut-In <u>916</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1991</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>1743</u>
	Sub Total <u>1743</u>	MP/DST Disc't

Approved By _____

Our Representative Thy 2 Nichols

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. 65620

Well Name & No. Gamblin # 3-22 Test No. 3 Date 10/17/19
 Company Murfin Drilling Co. Elevation 3404 KB 3399 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Samea Sharifai Rig Murfin # 3
 Location: Sec. 22 Twp 2S Rge. 37W Co. Cheyenne State KS

Interval Tested 4427 - 4470 Zone Tested LKL "6"
 Anchor Length 43' Drill Pipe Run 4233' Mud Wt. 9.0
 Top Packer Depth 4422 Drill Collars Run 176' Vis 62
 Bottom Packer Depth 4427 Wt. Pipe Run 0' WL 6.0
 Total Depth 4470 Chlorides 1000 ppm System LCM 2

Blow Description 30 IF - Blow built to 4"
60 ISI - No return
60 FF - lost 10' mud when open, 3" blow built to 10 1/2"
90 FSI - Surface return died @ 10 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>80'</u>	<u>60CM</u>	<u>10</u>	<u>35</u>	<u>65</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 1380 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2245
 (B) First Initial Flow 14
 (C) First Final Flow 28
 (D) Initial Shut-In 126
 (E) Second Initial Flow 27
 (F) Second Final Flow 45
 (G) Final Shut-In 127
 (H) Final Hydrostatic 2097

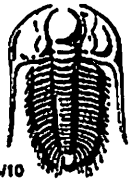
Test 1300
 Jars 250
 Safety Joint 75
 Circ Sub
 Hourly Standby
 Mileage 119 RT
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1743

T-On Location 12:00
 T-Started 12:27
 T-Open 14:13
 T-Pulled 18:13
 T-Out 20:15
 Comments 180' GEP
 EM Tool
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1743
 MP/DST Disc't

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Approved By _____ Our Representative R. J. M. H. B.

Triobite 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. 65621

Well Name & No. Gamblin # 3-22 Test No. 4 Date 10/18/19
 Company Murkin Drilling Co Elevation 3404 KB 3399 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Saman Shacifaie Rig Murkin #3
 Location: Sec. 22 Twp 2S Rge. 37W Co. Cheyenne State KS

Interval Tested 4470 - 4560 Zone Tested LKC "H-J"
 Anchor Length 90 Drill Pipe Run 4295' Mud Wt. 9.1
 Top Packer Depth 4465 Drill Collars Run 176' Vis 58
 Bottom Packer Depth 4470 Wt. Pipe Run 0' WL 6.0
 Total Depth 4560 Chlorides 1000 ppm System LCM 3

Blow Description 30 IF - BoB @ 12 1/2 mins
60 ISL - Surface blow return died @ 35 mins
60 FF - BoB @ 3 mins
90 FSI - No return

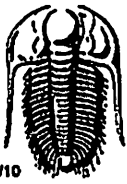
Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>V50CM</u>	<u>3</u>		<u>97</u>	
<u>60'</u>	<u>GDCM</u>	<u>10</u>	<u>10</u>	<u>80</u>	
<u>60'</u>	<u>GOCM</u>	<u>10</u>	<u>20</u>	<u>70</u>	
<u>60'</u>	<u>GOCM</u>	<u>30</u>	<u>30</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 210' BHT 139' Gravity — API RW — @ — ° F Chlorides — ppm
 (A) Initial Hydrostatic 2312 Test 1300 T-On Location 08:30
 (B) First Initial Flow 40 Jars 250 T-Started 08:55
 (C) First Final Flow 74 Safety Joint 75 T-Open 10:59
 (D) Initial Shut-In 163 Circ Sub NC T-Pulled 14:59
 (E) Second Initial Flow 75 Hourly Standby _____ T-Out 17:15
 (F) Second Final Flow 94 Mileage 118 RT Comments _____
 (G) Final Shut-In 189 Sampler _____
 (H) Final Hydrostatic 2085 Straddle _____

Initial Open 30 Shale Packer _____ EM Tool _____
 Initial Shut-In 60 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 60 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 90 Day Standby _____ Extra Copies _____
 Sub Total 0
 Total 1743
 Sub Total 1743 MP/DST Disc't _____

Approved By _____ Our Representative Thy 2 Pined

Tribolite 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. 65622

Well Name & No. Gambler # 3-22 Test No. 5 Date 10/19/19
 Company Martin Drilling Co. Elevation 3404 KB 3399 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Samir Sharifine Rig Martin # 3
 Location: Sec. 22 Twp 25 Rge. 37W Co. Cheyenne State KS

Interval Tested 4702-4850 Zone Tested Ft. Scott - Celia
 Anchor Length 148' Drill Pipe Run 4515' Mud Wt. 9.2
 Top Packer Depth 4697 Drill Collars Run 176' Vis 61
 Bottom Packer Depth 4702 Wt. Pipe Run 0' WL 6.8
 Total Depth 4850 Chlorides 1800 ppm System LCM 3
 Blow Description 30 IF - Blow built to 5"
60 ISI - No return
30 FF - Blow built to 3 1/4"
60 FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>200'</u>	<u>OCM</u>	<u>35</u>		<u>65</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 200' BHT 1410 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2357</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>20:00</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:40</u>
(C) First Final Flow <u>82</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:32</u>
(D) Initial Shut-In <u>696</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>02:32</u>
(E) Second Initial Flow <u>86</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>05:30</u>
(F) Second Final Flow <u>103</u>	<input checked="" type="checkbox"/> Mileage <u>118 RT</u>	Comments
(G) Final Shut-In <u>805</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2244</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> EM Tool
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>1743</u>	Total <u>1743</u>

Approved By _____ Our Representative Raymond Nichols
 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.