



DRILL STEM TEST REPORT

Prepared For: **Funk Petroleum, LLC**

2110 N 1184th St
Eudora, KS 66025

ATTN: Tom Funk

WieKan #1-10

10-9s-35w Thomas,KS

Start Date: 2016.09.25 @ 01:39:00

End Date: 2016.09.25 @ 09:00:30

Job Ticket #: 65567 DST #: 1

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

Printed: 2016.09.28 @ 16:08:59

Funk Petroleum, LLC
10-9s-35w Thomas,KS
WieKan #1-10
DST # 1
LKC E - F
2016.09.25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65567

DST#: 1

ATTN: Tom Funk

Test Start: 2016.09.25 @ 01:39:00

GENERAL INFORMATION:

Formation: **LKC E - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:00

Time Test Ended: 09:00:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4213.00 ft (KB) To 4264.00 ft (KB) (TVD)

Reference Elevations: 3337.00 ft (KB)

Total Depth: 4264.00 ft (KB) (TVD)

3332.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 1260.99 psig @ 4214.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.25

End Date:

2016.09.25

Last Calib.:

2016.09.25

Start Time: 01:39:05

End Time:

09:00:29

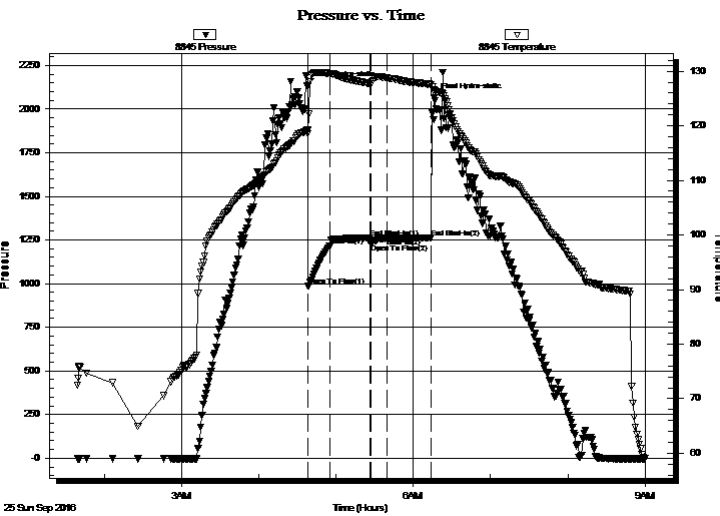
Time On Btm:

2016.09.25 @ 04:37:15

Time Off Btm:

2016.09.25 @ 06:16:00

TEST COMMENT: IF: BOB @ 1 min.
IS: No return.
FF: BOB @ 1 1/2 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.74	119.20	Initial Hydro-static
1	988.52	118.59	Open To Flow (1)
18	1216.06	129.57	Shut-In(1)
50	1261.56	127.76	End Shut-In(1)
50	1229.35	127.75	Open To Flow (2)
63	1260.99	128.75	Shut-In(2)
97	1264.06	127.58	End Shut-In(2)
99	2064.03	126.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2660.00	smcw 2m 98w (oil speks in tool)	35.61

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Funk Petroleum, LLC

10-9s-35w Thomas, KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

ATTN: Tom Funk

Job Ticket: 65567

DST#: 1

Test Start: 2016.09.25 @ 01:39:00

GENERAL INFORMATION:

Formation: **LKC E - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:00

Time Test Ended: 09:00:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4213.00 ft (KB) To 4264.00 ft (KB) (TVD)

Reference Elevations: 3337.00 ft (KB)

Total Depth: 4264.00 ft (KB) (TVD)

3332.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: psig @ 4214.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.25

End Date:

2016.09.25

Last Calib.:

1899.12.30

Start Time: 01:39:05

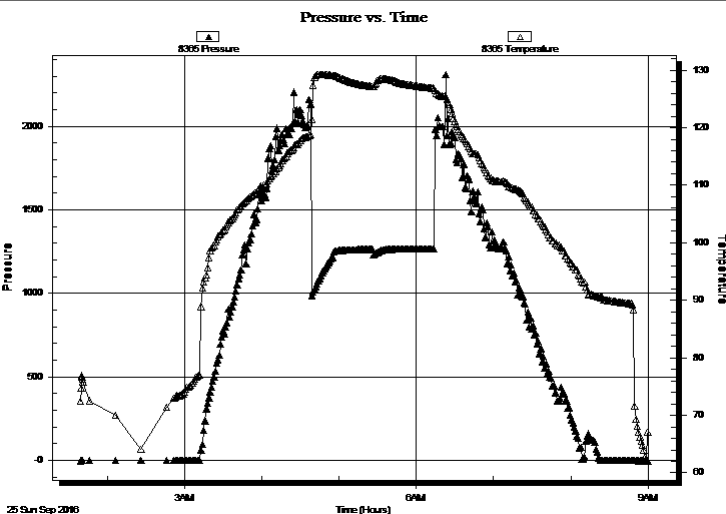
End Time:

09:00:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 1 min.
IS: No return.
FF: BOB @ 1 1/2 min.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2660.00	smcw 2m 98w (oil speks in tool)	35.61

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65567

DST#: 1

ATTN: Tom Funk

Test Start: 2016.09.25 @ 01:39:00

Tool Information

Drill Pipe:	Length: 4021.00 ft	Diameter: 3.80 inches	Volume: 56.40 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4213.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	71.00 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			4194.00	
Shut In Tool	5.00			4199.00	
Hydraulic tool	5.00			4204.00	
Packer	5.00			4209.00	20.00 Bottom Of Top Packer
Packer	4.00			4213.00	
Stubb	1.00			4214.00	
Recorder	0.00	8365	Inside	4214.00	
Recorder	0.00	8845	Outside	4214.00	
Perforations	14.00			4228.00	
Change Over Sub	1.00			4229.00	
Drill Pipe	31.00			4260.00	
Change Over Sub	1.00			4261.00	
Bullnose	3.00			4264.00	51.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65567

DST#: 1

ATTN: Tom Funk

Test Start: 2016.09.25 @ 01:39:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

72000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2660.00	smcw 2m 98w (oil speks in tool)	35.609

Total Length: 2660.00 ft Total Volume: 35.609 bbl

Num Fluid Samples: 0

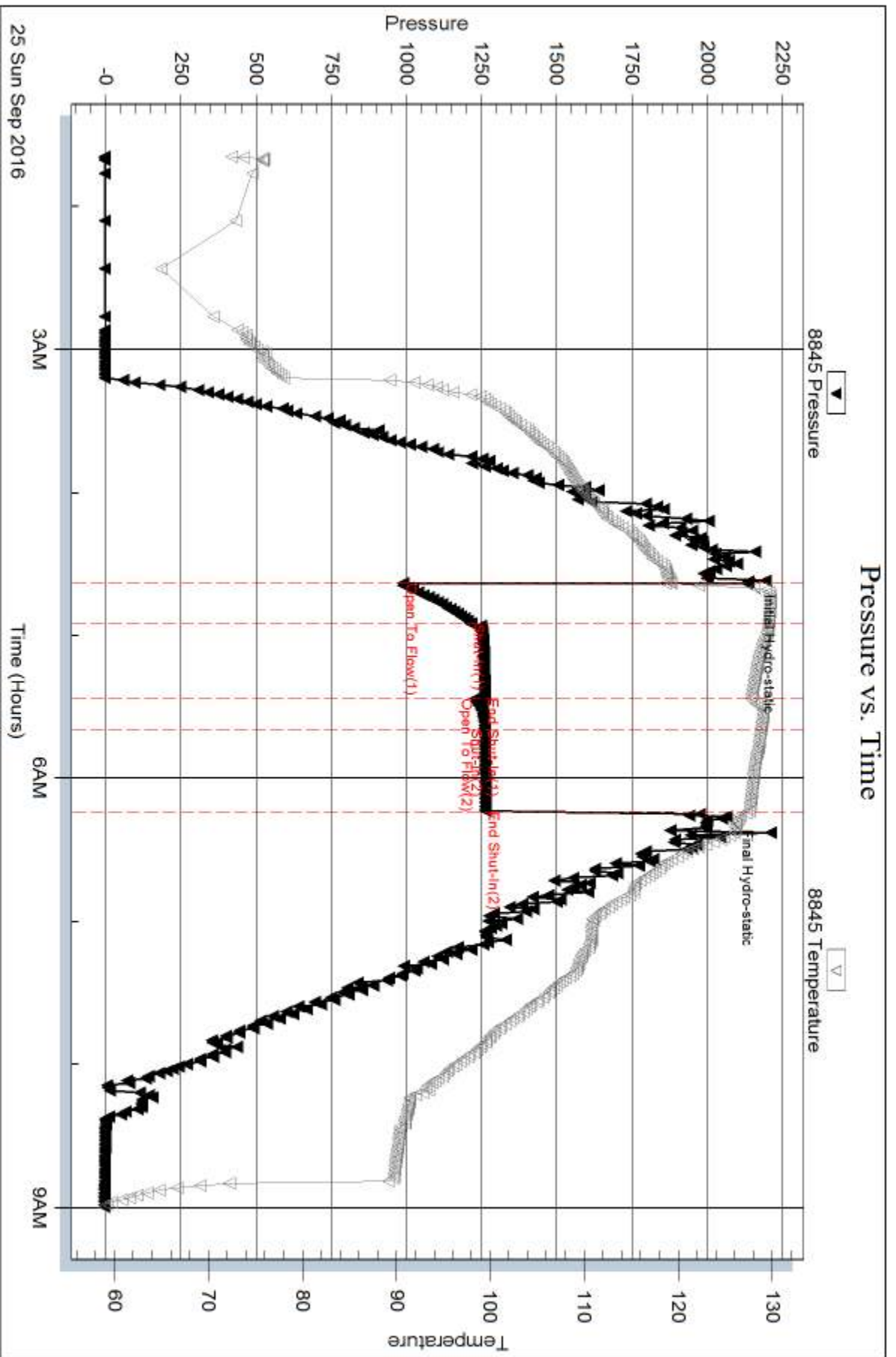
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .150 @49f = 72000ppm



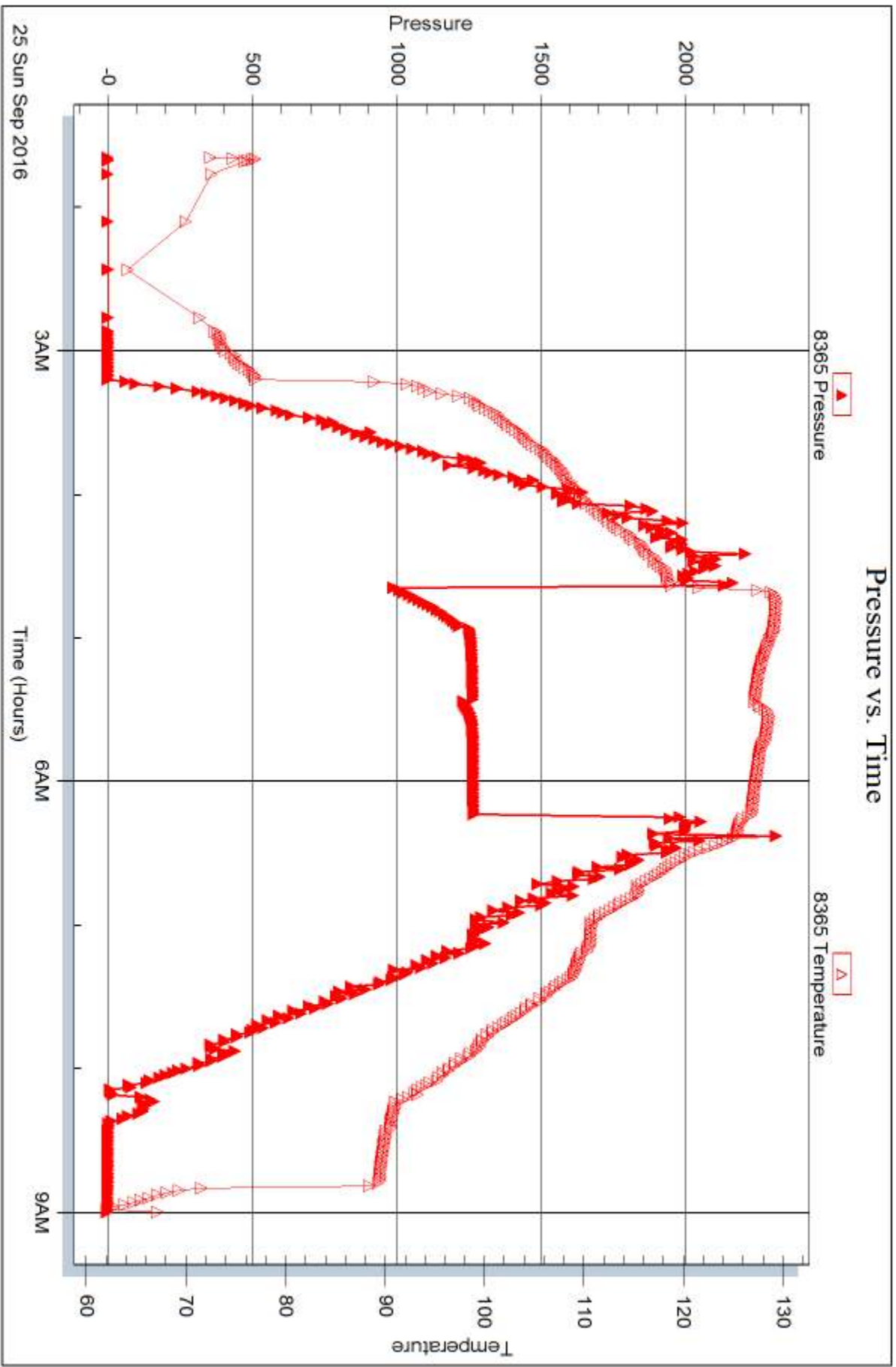
Serial #: 8365

Inside

Funk Petroleum, LLC

Wellbore #1-10

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65567

Printed: 2016.09.28 @ 16:09:01



DRILL STEM TEST REPORT

Prepared For: **Funk Petroleum, LLC**

2110 N 1184th St
Eudora, KS 66025

ATTN: Tom Funk

WieKan #1-10

10-9s-35w Thomas,KS

Start Date: 2016.09.25 @ 22:20:00

End Date: 2016.09.26 @ 06:07:15

Job Ticket #: 65568 DST #: 2

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

Printed: 2016.09.28 @ 16:05:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65568

DST#: 2

ATTN: Tom Funk

Test Start: 2016.09.25 @ 22:20:00

GENERAL INFORMATION:

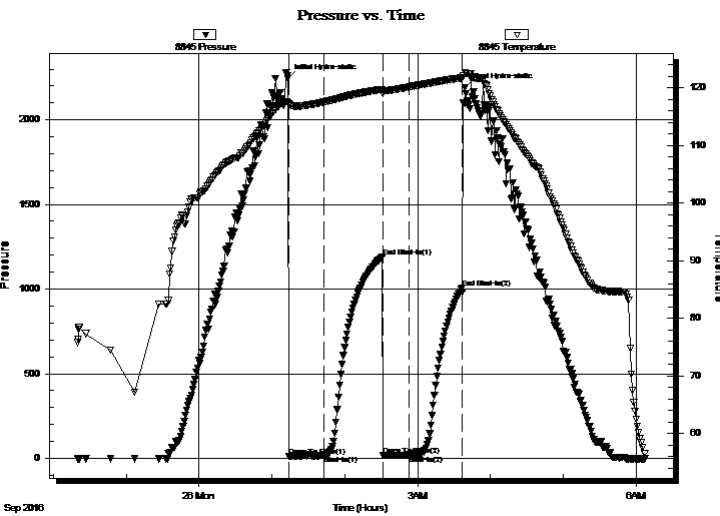
Formation: **LKC K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:13:45
 Time Test Ended: 06:07:15
 Interval: **4374.00 ft (KB) To 4405.00 ft (KB) (TVD)**
 Total Depth: 4405.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3337.00 ft (KB)
 3332.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8845

Outside

Press@RunDepth: 19.42 psig @ 4375.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.09.25 End Date: 2016.09.26 Last Calib.: 2016.09.26
 Start Time: 22:20:05 End Time: 06:07:14 Time On Btm: 2016.09.26 @ 01:13:15
 Time Off Btm: 2016.09.26 @ 03:39:00

TEST COMMENT: IF: 1/2" blow .
 IS: No return.
 FF: No blow .
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2245.42	117.48	Initial Hydro-static
1	13.22	117.15	Open To Flow (1)
30	16.02	117.54	Shut-In(1)
78	1191.88	119.75	End Shut-In(1)
78	16.60	119.00	Open To Flow (2)
100	19.42	120.13	Shut-In(2)
144	1006.04	121.73	End Shut-In(2)
146	2189.26	122.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (oil spots)	0.07

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Funk Petroleum, LLC
 2110 N 1184th St
 Eudora, KS 66025
 ATTN: Tom Funk

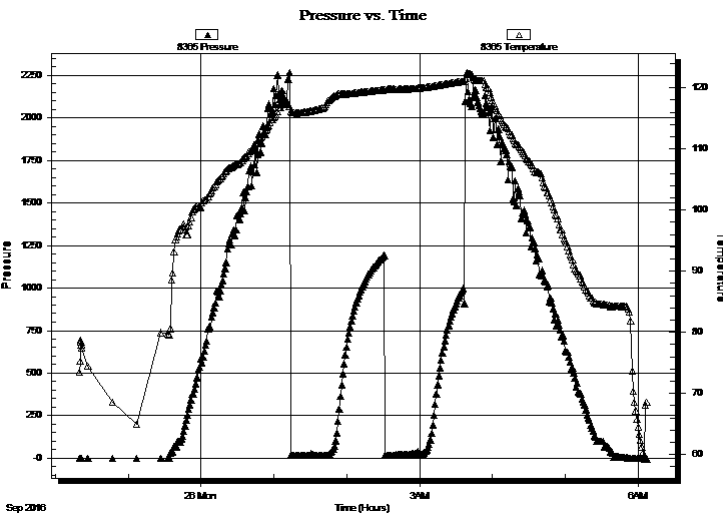
10-9s-35w Thomas,KS
WieKan #1-10
 Job Ticket: 65568 **DST#: 2**
 Test Start: 2016.09.25 @ 22:20:00

GENERAL INFORMATION:

Formation: **LKC K**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:13:45 Tester: Bradley Walter
 Time Test Ended: 06:07:15 Unit No: 78
Interval: 4374.00 ft (KB) To 4405.00 ft (KB) (TVD) Reference Elevations: 3337.00 ft (KB)
 Total Depth: 4405.00 ft (KB) (TVD) 3332.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8365 Inside
 Press@RunDepth: psig @ 4375.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.09.25 End Date: 2016.09.26 Last Calib.: 2016.09.26
 Start Time: 22:20:05 End Time: 06:07:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/2" blow.
 IS: No return.
 FF: No blow.
 FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (oil spots)	0.07

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65568

DST#: 2

ATTN: Tom Funk

Test Start: 2016.09.25 @ 22:20:00

Tool Information

Drill Pipe:	Length: 4180.00 ft	Diameter: 3.80 inches	Volume: 58.63 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: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 59.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4374.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 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			4355.00	
Shut In Tool	5.00			4360.00	
Hydraulic tool	5.00			4365.00	
Packer	5.00			4370.00	20.00 Bottom Of Top Packer
Packer	4.00			4374.00	
Stubb	1.00			4375.00	
Recorder	0.00	8365	Inside	4375.00	
Recorder	0.00	8845	Outside	4375.00	
Perforations	27.00			4402.00	
Bullnose	3.00			4405.00	31.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65568

DST#: 2

ATTN: Tom Funk

Test Start: 2016.09.25 @ 22:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100m (oil spots)	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

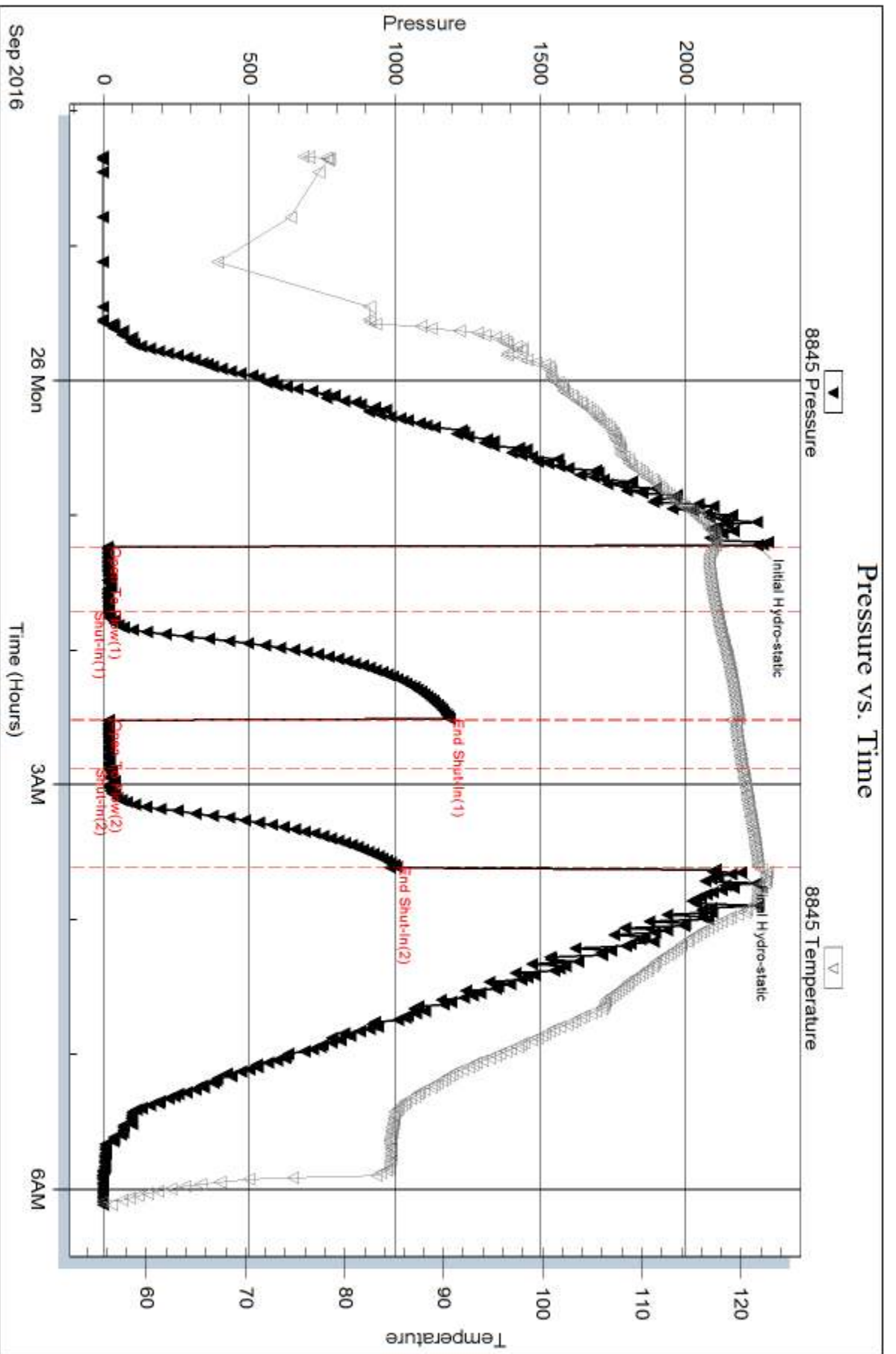
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



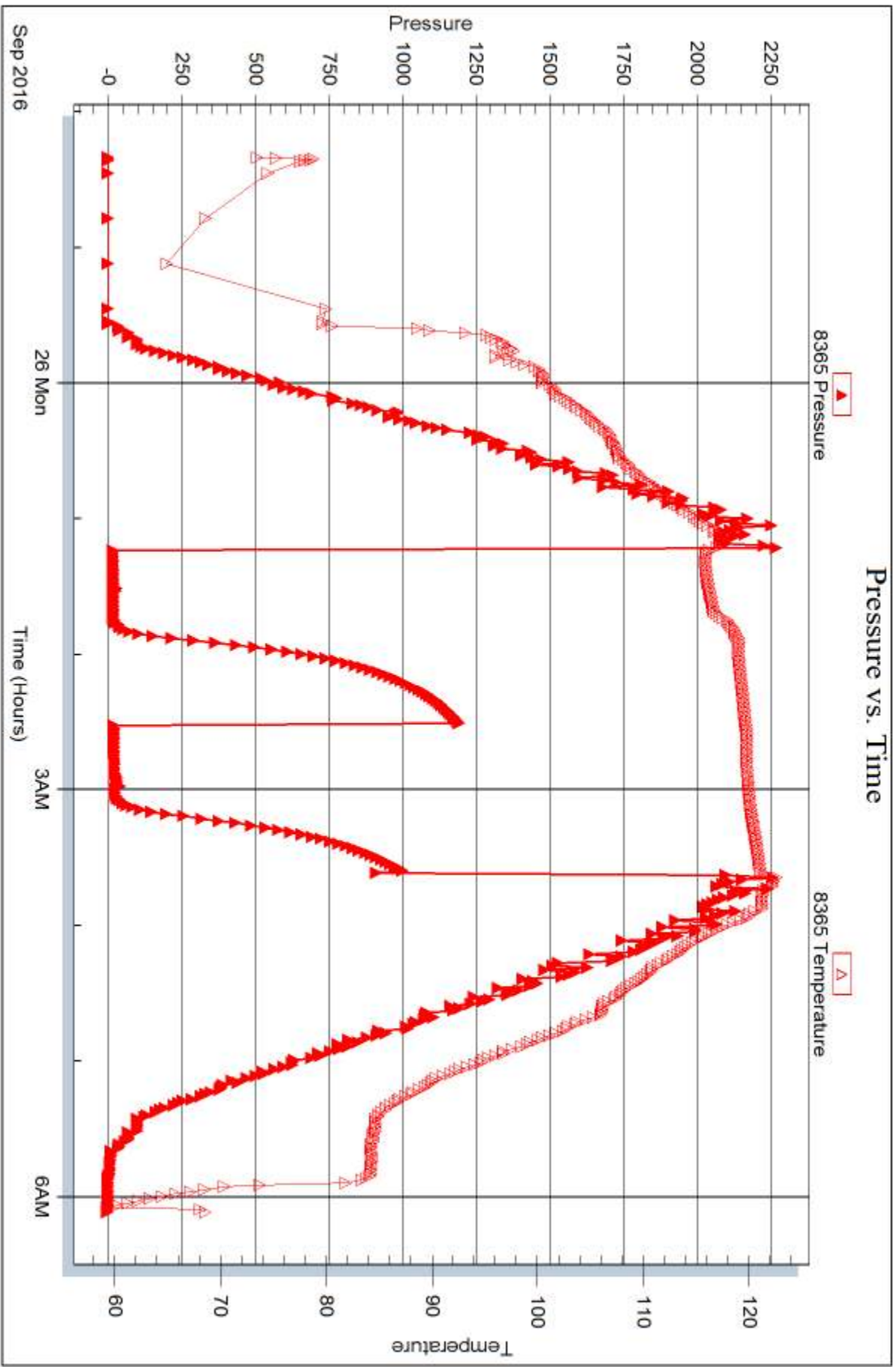
Serial #: 8365

Inside

Funk Petroleum, LLC

WellKan #1-10

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65568

Printed: 2016.09.28 @ 16:05:29



DRILL STEM TEST REPORT

Prepared For: **Funk Petroleum, LLC**

2110 N 1184th St
Eudora, KS 66025

ATTN: Tom Funk

WieKan #1-10

10-9s-35w Thomas,KS

Start Date: 2016.09.26 @ 16:22:00

End Date: 2016.09.27 @ 01:06:00

Job Ticket #: 65569 DST #: 3

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

Printed: 2016.09.28 @ 16:04:29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65569

DST#: 3

ATTN: Tom Funk

Test Start: 2016.09.26 @ 16:22:00

GENERAL INFORMATION:

Formation: **LKC L - Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:23:15

Time Test Ended: 01:06:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4406.00 ft (KB) To 4475.00 ft (KB) (TVD)

Reference Elevations: 3337.00 ft (KB)

Total Depth: 4475.00 ft (KB) (TVD)

3332.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 219.03 psig @ 4407.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.26

End Date:

2016.09.27

Last Calib.:

2016.09.27

Start Time: 16:22:05

End Time:

01:06:00

Time On Btm:

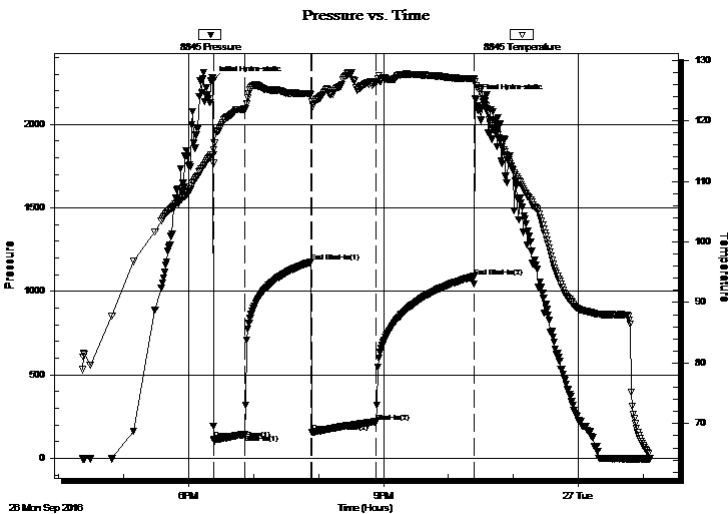
2016.09.26 @ 18:22:30

Time Off Btm:

2016.09.26 @ 22:24:45

TEST COMMENT: IF: 8" blow.
IS: No return.
FF: 4" blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.76	114.37	Initial Hydro-static
1	114.23	115.24	Open To Flow (1)
30	143.75	121.93	Shut-In(1)
91	1174.66	124.36	End Shut-In(1)
92	156.70	123.16	Open To Flow (2)
151	219.03	126.27	Shut-In(2)
241	1088.27	126.90	End Shut-In(2)
243	2155.13	126.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
390.00	mcw 25m 75w (oil spots)	3.77

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65569

DST#: 3

ATTN: Tom Funk

Test Start: 2016.09.26 @ 16:22:00

Tool Information

Drill Pipe:	Length: 4210.00 ft	Diameter: 3.80 inches	Volume: 59.06 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: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 59.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4406.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	89.00 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			4387.00	
Shut In Tool	5.00			4392.00	
Hydraulic tool	5.00			4397.00	
Packer	5.00			4402.00	20.00 Bottom Of Top Packer
Packer	4.00			4406.00	
Stubb	1.00			4407.00	
Recorder	0.00	8365	Inside	4407.00	
Recorder	0.00	8845	Outside	4407.00	
Perforations	32.00			4439.00	
Change Over Sub	1.00			4440.00	
Drill Pipe	31.00			4471.00	
Change Over Sub	1.00			4472.00	
Bullnose	3.00			4475.00	69.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65569

DST#: 3

ATTN: Tom Funk

Test Start: 2016.09.26 @ 16:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

59000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
390.00	mcw 25m 75w (oil spots)	3.767

Total Length: 390.00 ft Total Volume: 3.767 bbl

Num Fluid Samples: 0

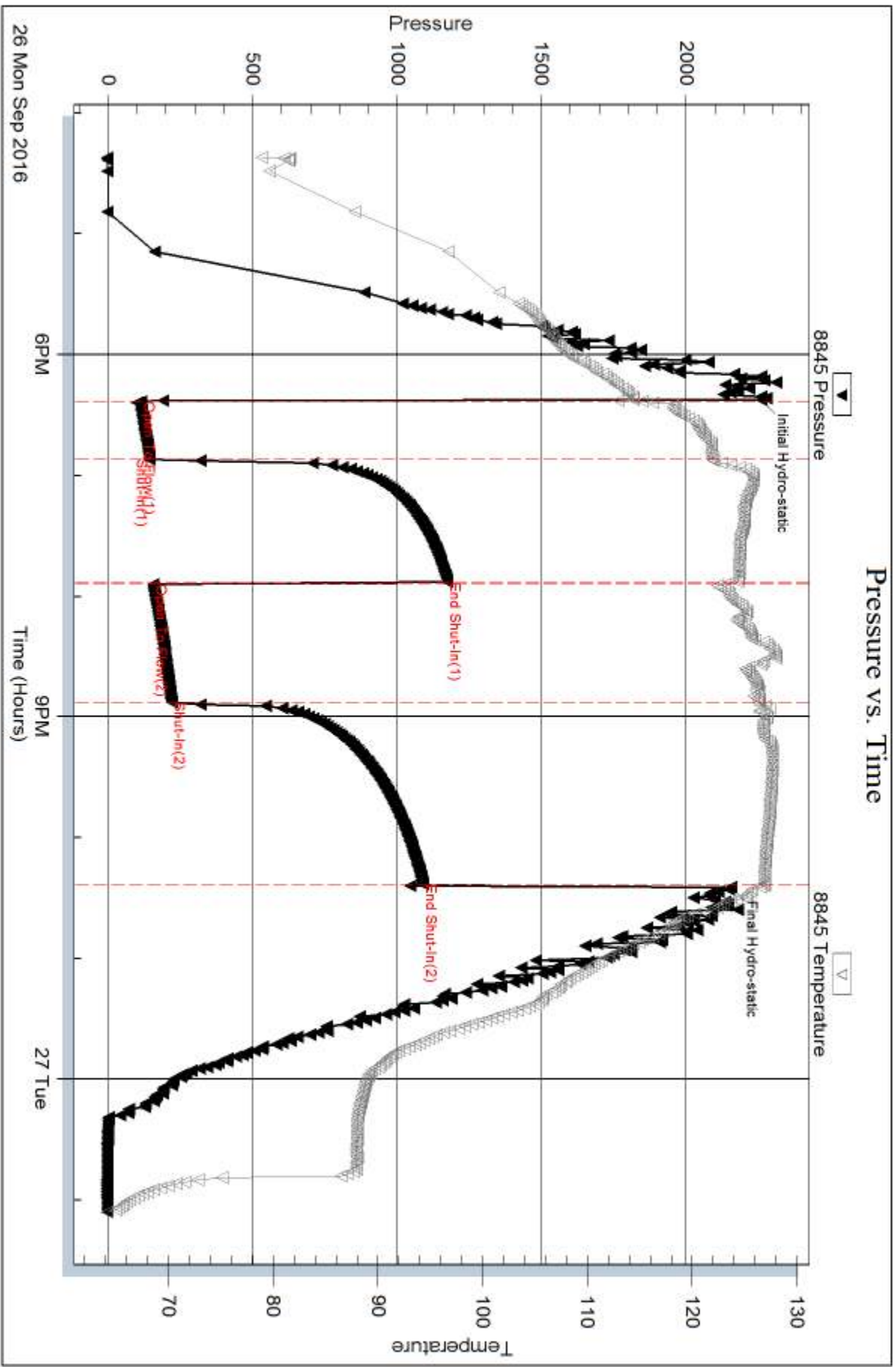
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .139 @ 64f = 59000ppm



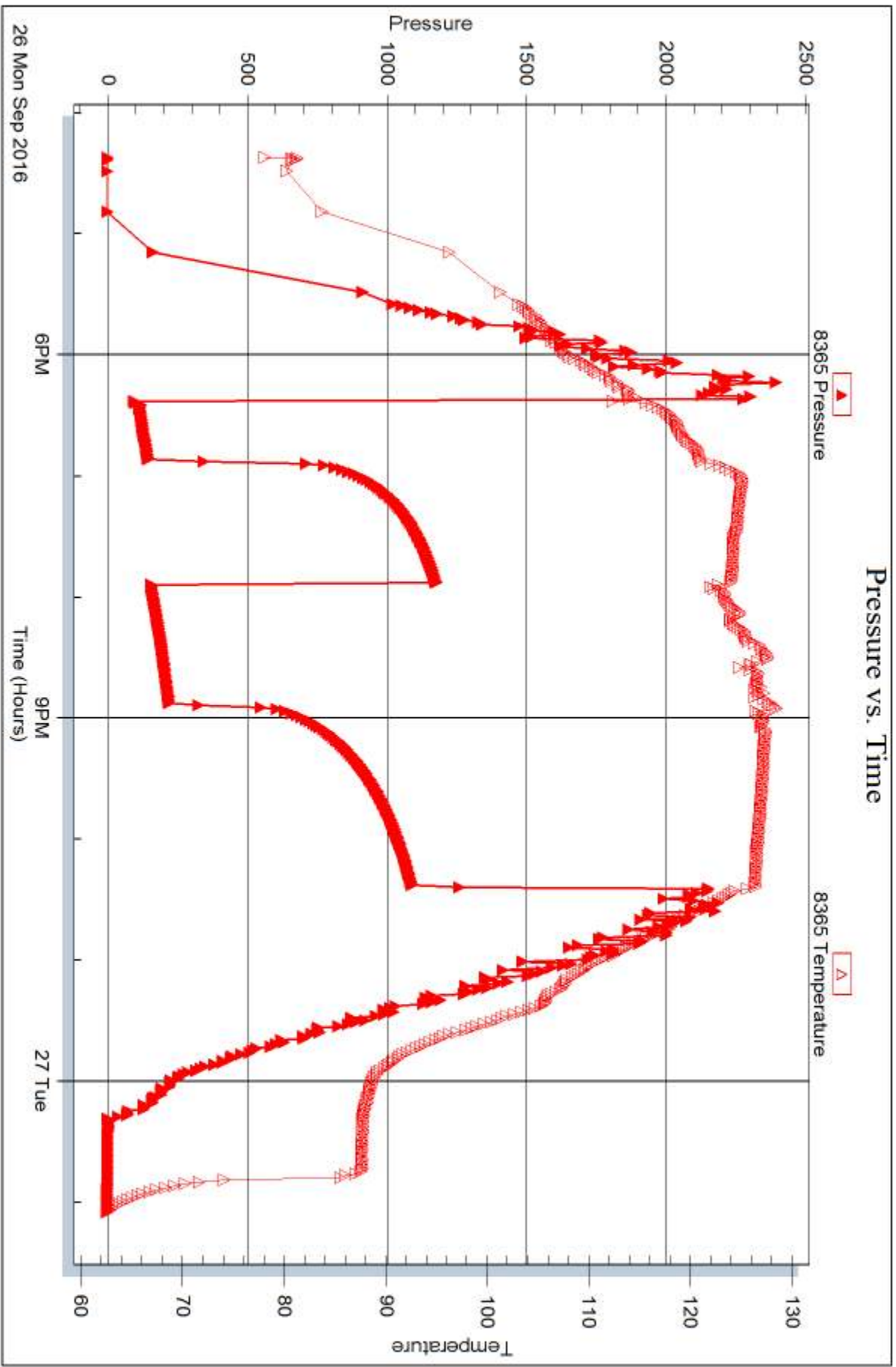
Serial #: 8365

Inside

Funk Petroleum, LLC

Well: #1-10

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65569

Printed: 2016.09.28 @ 16:04:31



DRILL STEM TEST REPORT

Prepared For: **Funk Petroleum, LLC**

2110 N 1184th St
Eudora, KS 66025

ATTN: Tom Funk

WieKan #1-10

10-9s-35w Thomas,KS

Start Date: 2016.09.27 @ 18:22:00

End Date: 2016.09.28 @ 00:57:00

Job Ticket #: 65570 DST #: 4

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

Printed: 2016.09.28 @ 16:02:19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

ATTN: Tom Funk

Job Ticket: 65570

DST#: 4

Test Start: 2016.09.27 @ 18:22:00

GENERAL INFORMATION:

Formation: **Cherokee Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:24:45

Time Test Ended: 00:57:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4650.00 ft (KB) To 4695.00 ft (KB) (TVD)

Reference Elevations: 3337.00 ft (KB)

Total Depth: 4695.00 ft (KB) (TVD)

3332.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 22.68 psig @ 4651.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.27 End Date: 2016.09.28

Last Calib.: 2016.09.28

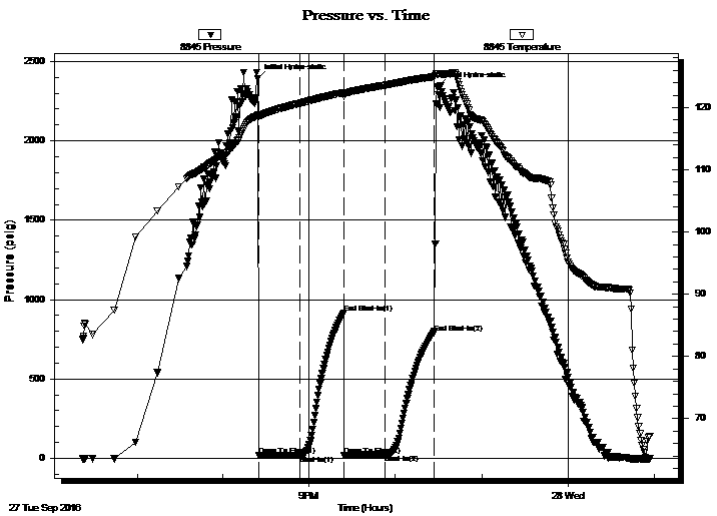
Start Time: 18:22:05 End Time: 00:56:59

Time On Btm: 2016.09.27 @ 20:24:15

Time Off Btm: 2016.09.27 @ 22:29:15

TEST COMMENT: IF: Surface blow, died @ 14 min.
IS: No return.
FF: No blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2392.83	118.95	Initial Hydro-static
1	17.93	118.53	Open To Flow (1)
30	18.92	120.69	Shut-In(1)
60	917.10	122.39	End Shut-In(1)
60	19.75	121.81	Open To Flow (2)
89	22.68	123.59	Shut-In(2)
123	791.39	124.94	End Shut-In(2)
125	2338.67	125.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100m (oil spots)	0.07

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Funk Petroleum, LLC

10-9s-35w Thomas, KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

ATTN: Tom Funk

Job Ticket: 65570

DST#: 4

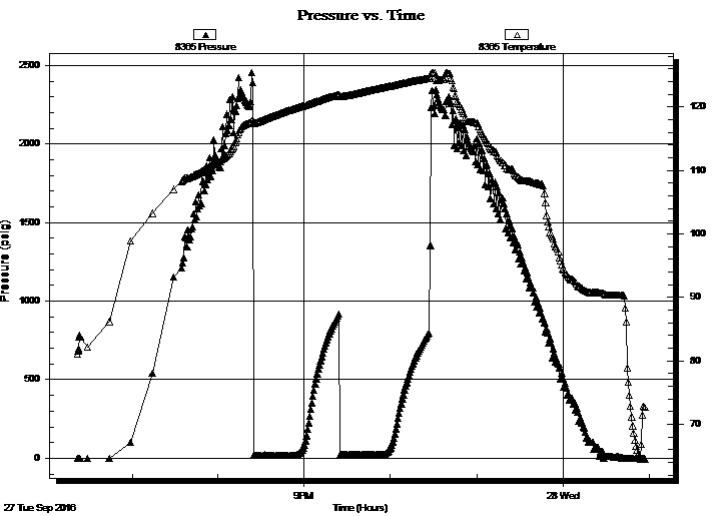
Test Start: 2016.09.27 @ 18:22:00

GENERAL INFORMATION:

Formation: **Cherokee Lime**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:24:45
 Time Test Ended: 00:57:00
 Interval: **4650.00 ft (KB) To 4695.00 ft (KB) (TVD)**
 Total Depth: 4695.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3337.00 ft (KB)
 3332.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8365 Inside
 Press@RunDepth: psig @ 4651.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.09.27 End Date: 2016.09.28 Last Calib.: 2016.09.28
 Start Time: 18:22:05 End Time: 00:56:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Surface blow , died @ 14 min.
 IS: No return.
 FF: No blow .
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100m (oil spots)	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65570

DST#: 4

ATTN: Tom Funk

Test Start: 2016.09.27 @ 18:22:00

Tool Information

Drill Pipe:	Length: 4464.00 ft	Diameter: 3.80 inches	Volume: 62.62 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: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 63.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4650.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4631.00	
Shut In Tool	5.00			4636.00	
Hydraulic tool	5.00			4641.00	
Packer	5.00			4646.00	20.00 Bottom Of Top Packer
Packer	4.00			4650.00	
Stubb	1.00			4651.00	
Recorder	0.00	8365	Inside	4651.00	
Recorder	0.00	8845	Outside	4651.00	
Perforations	8.00			4659.00	
Change Over Sub	1.00			4660.00	
Drill Pipe	31.00			4691.00	
Change Over Sub	1.00			4692.00	
Bullnose	3.00			4695.00	45.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Funk Petroleum, LLC

10-9s-35w Thomas,KS

2110 N 1184th St
Eudora, KS 66025

WieKan #1-10

Job Ticket: 65570

DST#: 4

ATTN: Tom Funk

Test Start: 2016.09.27 @ 18:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100m (oil spots)	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

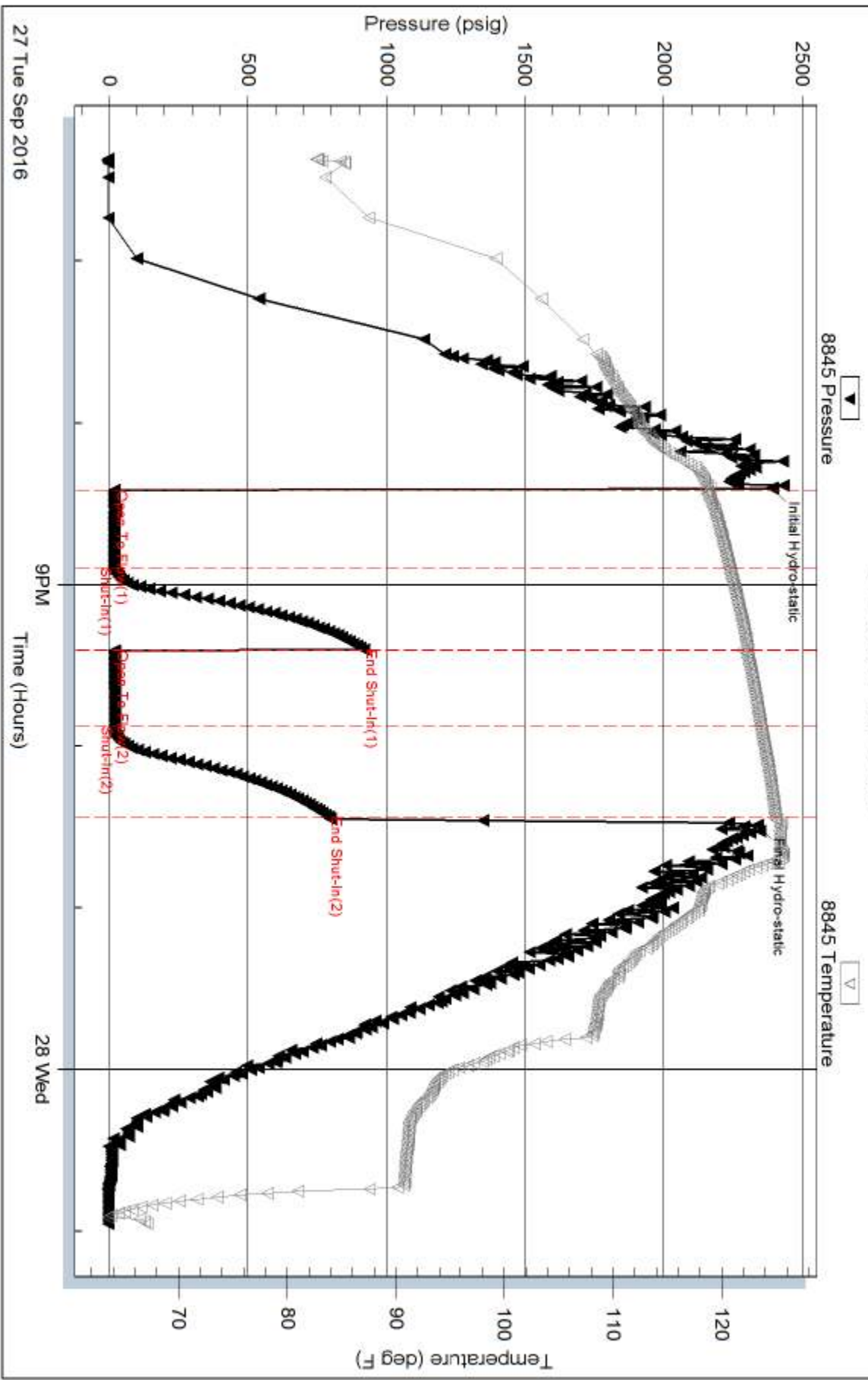
Serial #: 8845

Outside Funk Petroleum, LLC

Wellbore #1-10

DST Test Number: 4

Pressure vs. Time



Tribble Testing, Inc

Ref. No: 65570

Printed: 2016.09.28 @ 16:02:20

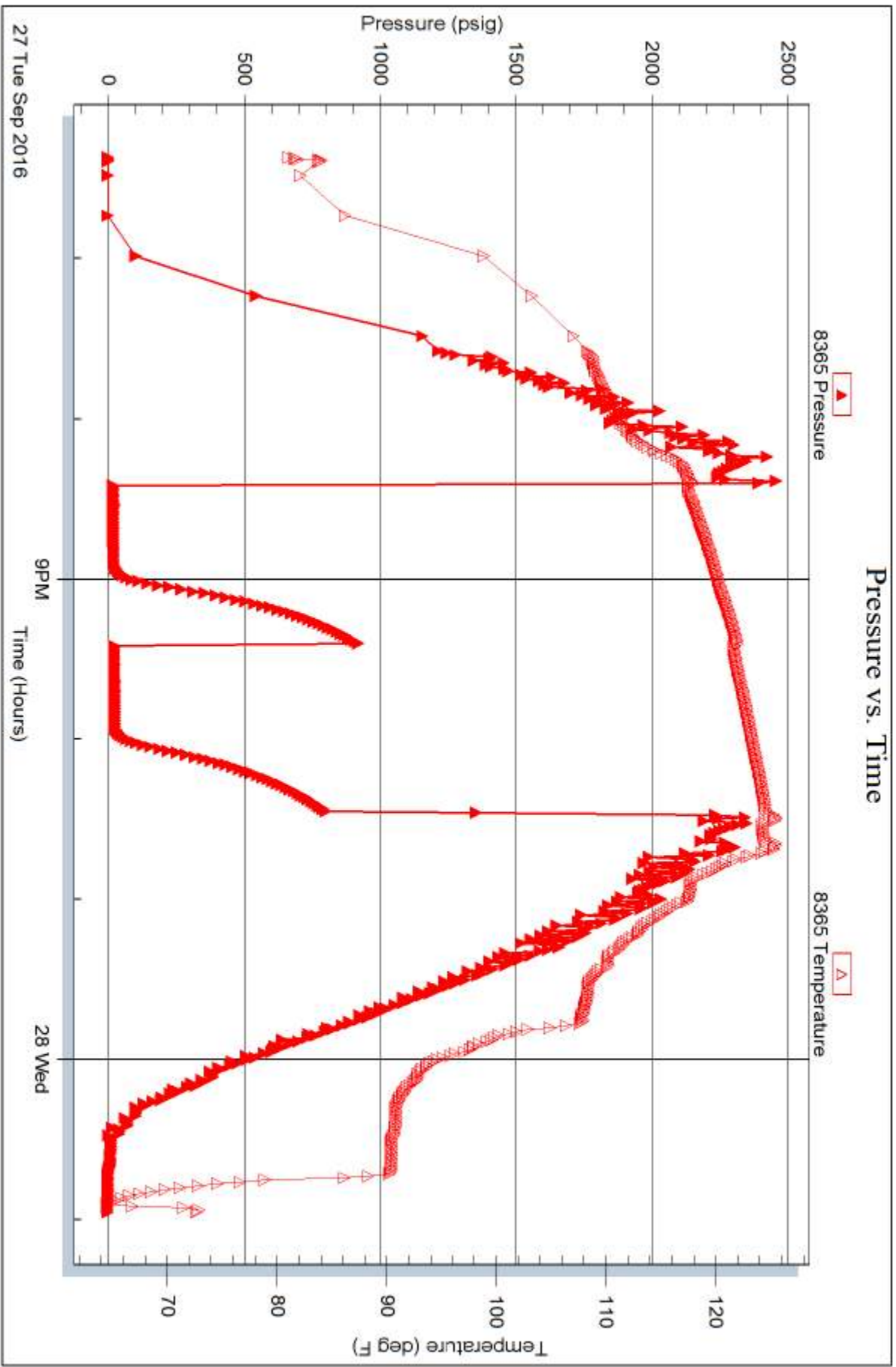
Serial #: 8365

Inside

Funk Petroleum, LLC

Wellbore #1-10

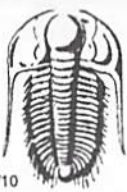
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 65570

Printed: 2016.09.28 @ 16:02:21



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65567**

Well Name & No. Wiekan #1-10 Test No. 1 Date 9/25/2016
 Company Funk Petroleum, LLC Elevation 3337 KB 3332 GL
 Address 2110 N 1184th St. Eudora, ks 66025
 Co. Rep / Geo. Tom Funk Rig Martin #7
 Location: Sec. 10 ~~9~~ Twp. 9g Rge. 35w Co. Thomas State ks

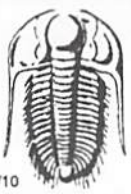
Interval Tested 4213 - 4264 Zone Tested LKC E-F
 Anchor Length 51 Drill Pipe Run 4021 Mud Wt. 9.0
 Top Packer Depth 4209 # Drill Collars Run 187 Vis .58
 Bottom Packer Depth 4213 Wt. Pipe Run 0 WL 2# 4.2
 Total Depth 4264 Chlorides 3300 ppm System LCM 22#
 Blow Description IF: BOB @ 1 min
ISI: No return
PF: BOB @ 1 1/2 min
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2660</u>	<u>SMCW</u>			<u>98</u>	<u>2</u>
	<u>oil scam in tool</u>				

Rec Total 2660 BHT 127 Gravity — API RW 150 @ 51 °F Chlorides 72000 ppm
 (A) Initial Hydrostatic 2139 Test 1150 T-On Location 0015
 (B) First Initial Flow 989 Jars _____ T-Started 0232
 (C) First Final Flow 1216 Safety Joint _____ T-Open 0431
 (D) Initial Shut-In 1262 Circ Sub N/L T-Pulled 0518
 (E) Second Initial Flow 1229 Hourly Standby _____ T-Out 0900
 (F) Second Final Flow 1260 Mileage 160 RT 120 Comments _____
 (G) Final Shut-In 1264 Sampler _____
 (H) Final Hydrostatic 2064 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1270
 Final Flow 15 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1270

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65568**

Well Name & No. Wiekam #1-10 Test No. 2 Date 9/26/2012
 Company Funk Petroleum, LLC Elevation 3337 KB 3332 GL
 Address 2110 N 1184th St. Eudora, KS 66025
 Co. Rep / Geo. Tom Funk Rig Martin #7
 Location: Sec. 10 Twp. 9S Rge. 35W Co. Thomas State Ks

Interval Tested 4374-4405 Zone Tested LKC K
 Anchor Length 31' Drill Pipe Run 4180 Mud Wt. 9.1
 Top Packer Depth 4369 Drill Collars Run 187 Vis 57
 Bottom Packer Depth 4374 Wt. Pipe Run 0 WL 7.2
 Total Depth 4405 Chlorides 5,000 ppm System LCM 1#
 Blow Description IF: 1/2" blow
ISI: No return.
FF: No blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>			<u>100</u>	
	<u>OIL SPOT</u>				

Rec Total 15 BHT 122 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic 2245 Test 1150 T-On Location 2200
 (B) First Initial Flow 13 Jars _____ T-Started 2220
 (C) First Final Flow 16 Safety Joint _____ T-Open 0110
 (D) Initial Shut-In 1192 Circ Sub 4c T-Pulled 0225
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 0207
 (F) Second Final Flow 19 Mileage 160 120 Comments _____
 (G) Final Shut-In 1006 Sampler _____
 (H) Final Hydrostatic 2189 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 30 Day Standby _____
 Accessibility _____
 Sub Total 1270 Sub Total 1270
 Total 1270 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. **65569**

Well Name & No. Wiekam #1-10 Test No. 3 Date 9/26/2016
 Company Funk Petroleum LLC Elevation 3337 KB 3332 GL
 Address 2110 N 1184th St Eudora, KS 66025
 Co. Rep / Geo. Tom Funk Rig Martin #7
 Location: Sec. 10 Twp. 9S Rge. 35W Co. Thomas State KS

Interval Tested 4406 - 4475 Zone Tested LKC L-Marmaton
 Anchor Length 69 Drill Pipe Run 4210 Mud Wt. 9.2
 Top Packer Depth 4401 Drill Collars Run 187 Vis 62
 Bottom Packer Depth 4406 Wt. Pipe Run Ø WL 6.4
 Total Depth 4475 Chlorides 4400 ppm System LCM 4#

Blow Description IF: 6" blow
ISI: No return
FF: 4" blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>390</u>	<u>mca</u>			<u>75</u>	<u>25</u>
	<u>OIL SPOTS</u>				

Rec Total 390 BHT 127 Gravity — API RW 139 @ 64 °F Chlorides 59000 ppm
 (A) Initial Hydrostatic 2261 Test 1150 T-On Location 1530
 (B) First Initial Flow 114 Jars _____ T-Started 1622
 (C) First Final Flow 144 Safety Joint _____ T-Open 1823
 (D) Initial Shut-In 1175 Circ Sub 146 T-Pulled 2223
 (E) Second Initial Flow 157 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 219 Mileage 160 120 Comments _____
 (G) Final Shut-In 1088 Sampler _____
 (H) Final Hydrostatic 2155 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

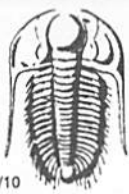
Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1270
 MP/DST Disc't _____

Approved By _____

Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65570**

Well Name & No. Wiekan #1-10 Test No. 4 Date 9/27/2016
 Company Funk Petroleum, LLC Elevation 3337 KB 3332 GL
 Address 2110 N 1184th St Eudora, Ks 66025
 Co. Rep / Geo. Tom Funk Rig Martin #7
 Location: Sec. 10 Twp. 9s Rge. 35w Co. Thomas State Ks

Interval Tested 4650 - 4695 Zone Tested Cherokee Lime
 Anchor Length 45' Drill Pipe Run 4464 Mud Wt. 9.2
 Top Packer Depth 4645 Drill Collars Run 187 Vis 52
 Bottom Packer Depth 4650 Wt. Pipe Run 0 WL 8.8
 Total Depth 4695 Chlorides 5700 ppm System LCM 3#
 Blow Description IF: Surface blow, died @ 14 min.
ISI: No return.
FF: No blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>			<u>100</u>	

Rec Total 15 BHT 125 Gravity API RW @ F Chlorides ppm
 (A) Initial Hydrostatic 2393 Test 1150 T-On Location ~~1822~~ 1730
 (B) First Initial Flow 18 Jars T-Started 1822
 (C) First Final Flow 19 Safety Joint T-Open 2030
 (D) Initial Shut-In 917 Circ Sub Nc T-Pulled 2230
 (E) Second Initial Flow 20 Hourly Standby T-Out 0057
 (F) Second Final Flow 23 Mileage 160 Rt 120 +120 Comments Loaded 9/28
 (G) Final Shut-In 791 Sampler
 (H) Final Hydrostatic 2339 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1390
 Accessibility MP/DST Disc't
 Sub Total 1390

Approved By _____ Our Representative [Signature]

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