



## DRILL STEM TEST REPORT

Prepared For: **Ward Petroleum Corp.**

502 S. Fillmore  
Enid OK 73703

ATTN: Larry Nicholson

### **Finegan #1-23**

#### **23-6s-38w Sherman,KS**

Start Date: 2013.08.21 @ 23:02:00

End Date: 2013.08.22 @ 06:51:30

Job Ticket #: 53507                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.27 @ 10:39:35



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53507

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2013.08.21 @ 23:02:00

## GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:30

Time Test Ended: 06:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 66

**Interval: 4226.00 ft (KB) To 4246.00 ft (KB) (TVD)**

Reference Elevations: 3402.00 ft (KB)

Total Depth: 4266.00 ft (KB) (TVD)

3391.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8874**

**Inside**

Press @ Run Depth: 217.80 psig @ 4227.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.21

End Date:

2013.08.22

Last Calib.:

2013.08.22

Start Time: 23:03:00

End Time:

06:51:30

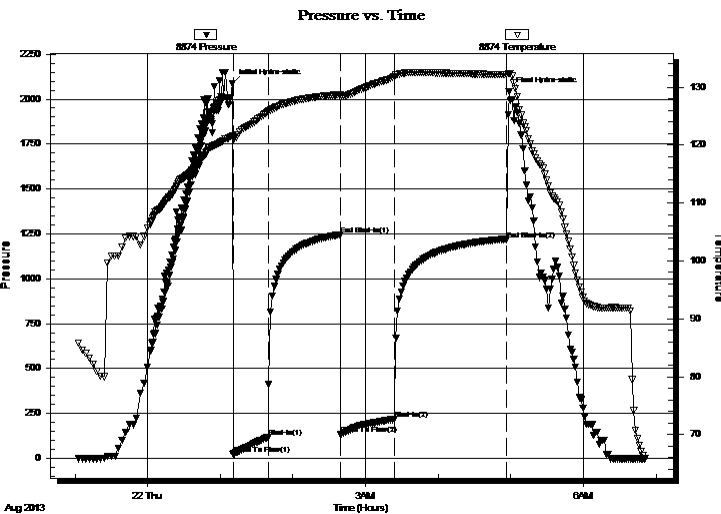
Time On Btm:

2013.08.22 @ 01:10:00

Time Off Btm:

2013.08.22 @ 04:58:30

**TEST COMMENT:** 30 IF - 1/4" built to 8 1/2"  
60 ISI - No return  
45 FF - Surface blow started @ 5 mins built to 9"  
90 FSI - No return



## PRESSURE SUMMARY

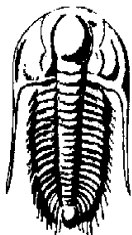
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2084.96	121.54	Initial Hydro-static
1	21.03	121.05	Open To Flow (1)
30	117.62	125.73	Shut-In(1)
89	1244.88	128.71	End Shut-In(1)
90	133.10	128.31	Open To Flow (2)
134	217.80	131.87	Shut-In(2)
227	1216.72	132.16	End Shut-In(2)
229	2041.45	132.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
274.00	OMCW - 2%o - 30%M - 68%W	1.35
92.00	OWCM - 2%o - 38%W - 60%M	0.45
73.00	OWCM - 2%o - 43%W - 55%M	1.07

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53507

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2013.08.21 @ 23:02:00

## GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 01:10:30

Time Test Ended: 06:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 66

**Interval: 4226.00 ft (KB) To 4246.00 ft (KB) (TVD)**

Reference Elevations: 3402.00 ft (KB)

Total Depth: 4266.00 ft (KB) (TVD)

3391.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8653 Outside**

Press @RunDepth: **psig @ 4227.00 ft (KB)**

Capacity: 8000.00 psig

Start Date: 2013.08.21

End Date: 2013.08.22

Last Calib.: 2013.08.22

Start Time: 23:03:00

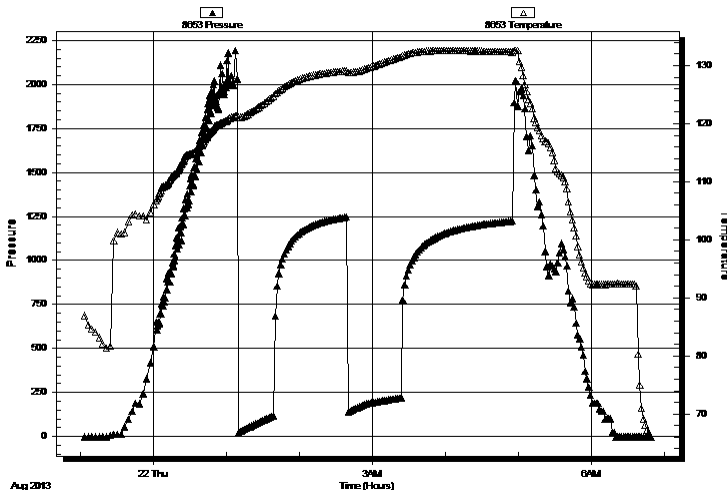
End Time: 06:50:00

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 IF - 1/4" built to 8 1/2"  
60 ISI - No return  
45 FF - Surface blow started @ 5 mins built to 9"  
90 FSI - No return

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
274.00	OMCW - 2%o - 30%M - 68%W	1.35
92.00	OWCM - 2%o - 38%W - 60%M	0.45
73.00	OWCM - 2%o - 43%W - 55%M	1.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53507

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2013.08.21 @ 23:02:00

## Tool Information

Drill Pipe:	Length: 3840.00 ft	Diameter: 3.88 inches	Volume: 56.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4226.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	67.00 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			4204.00	
Hydraulic tool	5.00			4209.00	
Jars	5.00			4214.00	
Safety Joint	3.00			4217.00	
Packer	5.00			4222.00	27.00 Bottom Of Top Packer
Packer	4.00			4226.00	
Packer - Shale	0.00			4226.00	
Stubb	1.00			4227.00	
Recorder	0.00	8653	Outside	4227.00	
Recorder	0.00	8874	Inside	4227.00	
Perforations	1.00			4228.00	
Change Over Sub	1.00			4229.00	
Drill Pipe	31.00			4260.00	
Change Over Sub	1.00			4261.00	
Bullnose	5.00			4266.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53507

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2013.08.21 @ 23:02:00

## 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:

18000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
274.00	OMCW - 2%o - 30%M - 68%W	1.347
92.00	OWCM - 2%o - 38%W - 60%M	0.452
73.00	OWCM - 2%o - 43%W - 55%M	1.068

Total Length: 439.00 ft      Total Volume: 2.867 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .425 @ 68 DEG F

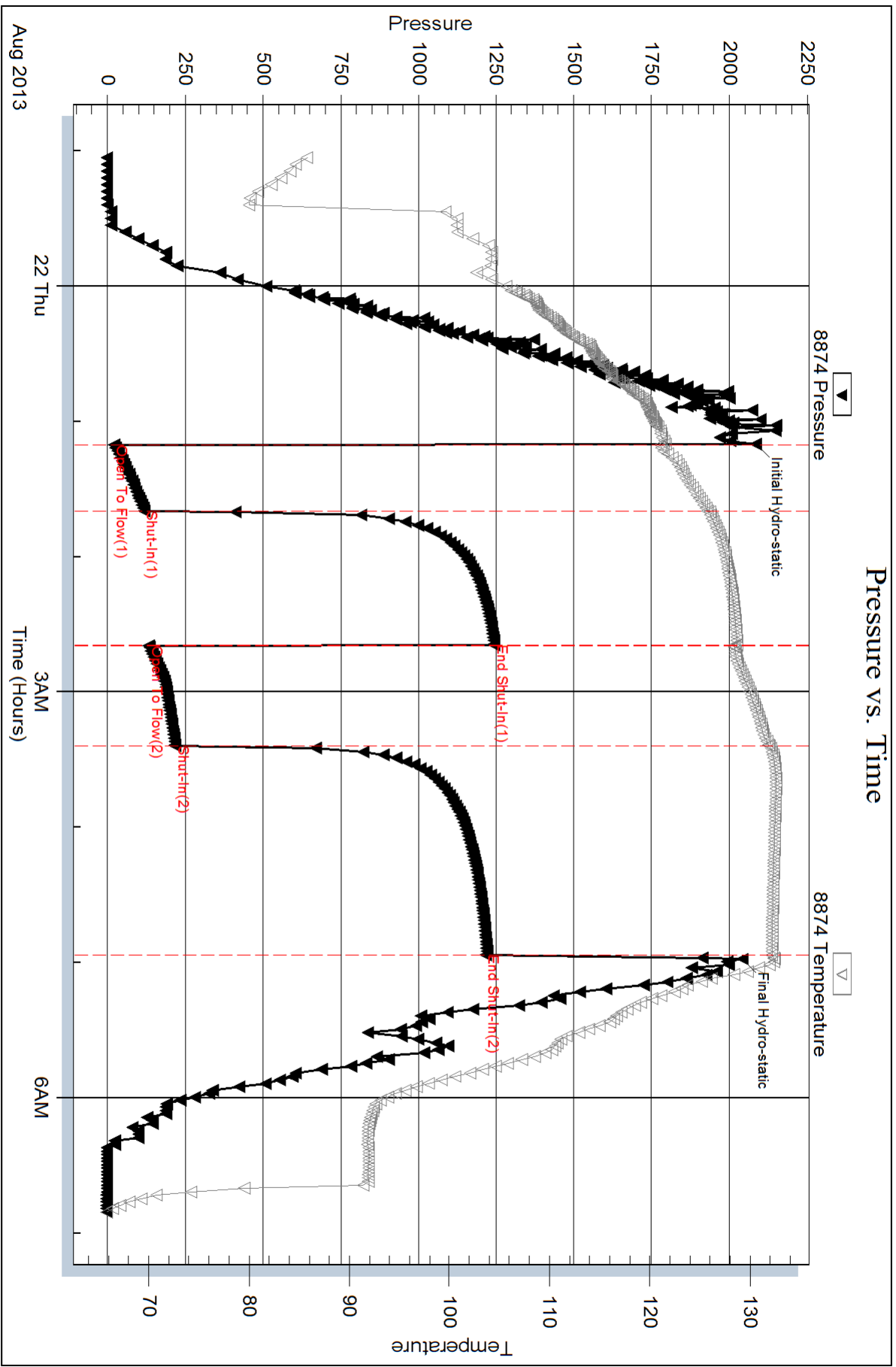
Serial #: 8874

Inside

Ward Petroleum Corp.

Finegan #1-23

DST Test Number: 1

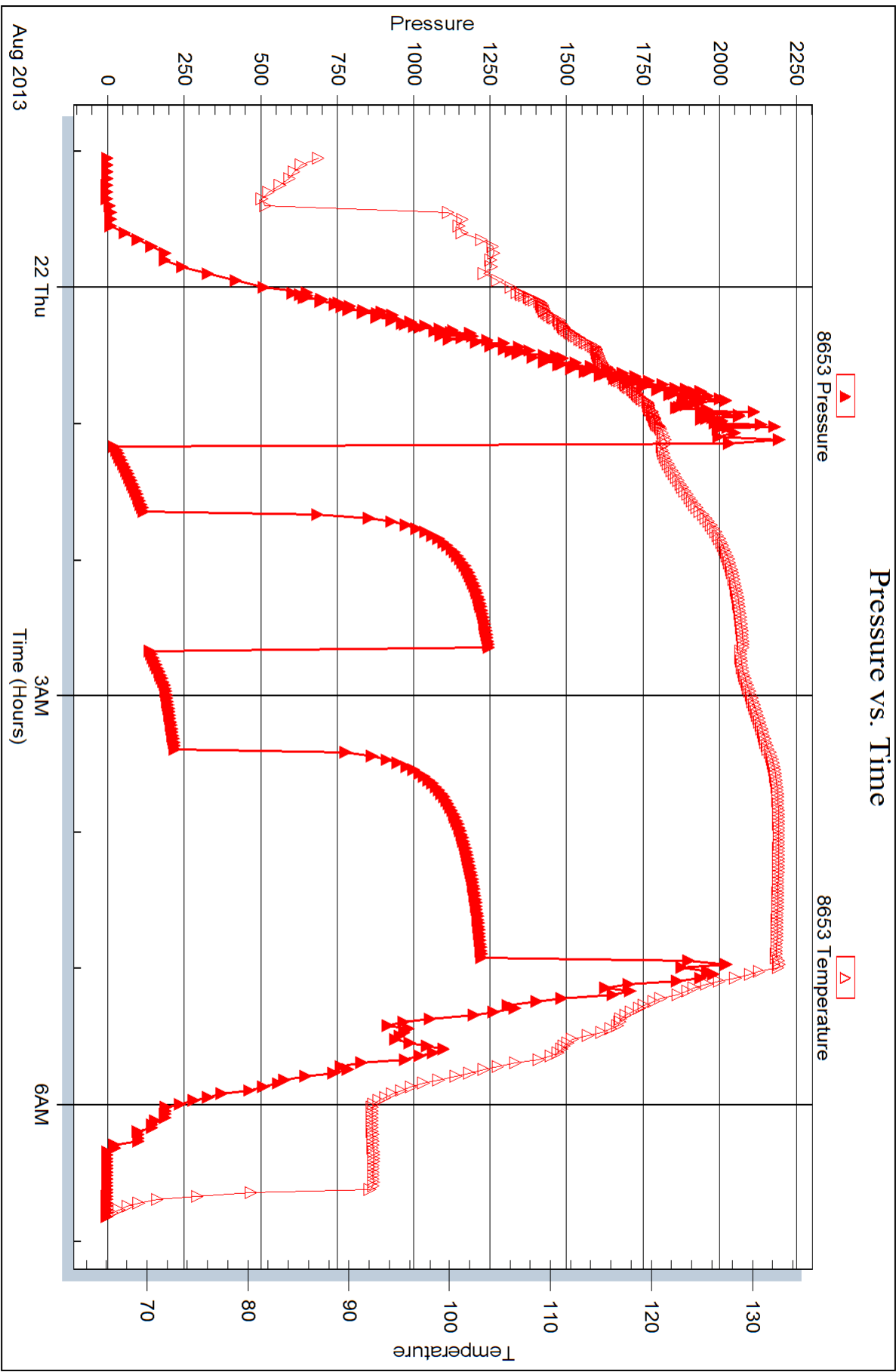


Serial #: 8653

Outside Ward Petroleum Corp.

Firegan #1-23

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Ward Petroleum Corp.**

502 S. Fillmore  
Enid OK 73703

ATTN: Larry Nicholson

### **Finegan #1-23**

### **23-6s-38w Sherman,KS**

Start Date: 2013.08.22 @ 20:48:00

End Date: 2013.08.23 @ 03:00:30

Job Ticket #: 53508                      DST #: 2

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

Printed: 2013.08.27 @ 10:38:47





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53508

**DST#: 2**

ATTN: Larry Nicholson

Test Start: 2013.08.22 @ 20:48:00

## GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:24:30

Time Test Ended: 03:00:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 66

**Interval: 4397.00 ft (KB) To 4370.00 ft (KB) (TVD)**

Reference Elevations: 3402.00 ft (KB)

Total Depth: 4397.00 ft (KB) (TVD)

3391.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8874**

**Inside**

Press @ RunDepth: 17.06 psig @ 4371.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.22

End Date:

2013.08.23

Last Calib.:

2013.08.23

Start Time: 20:49:00

End Time:

03:00:30

Time On Btm:

2013.08.22 @ 23:24:00

Time Off Btm:

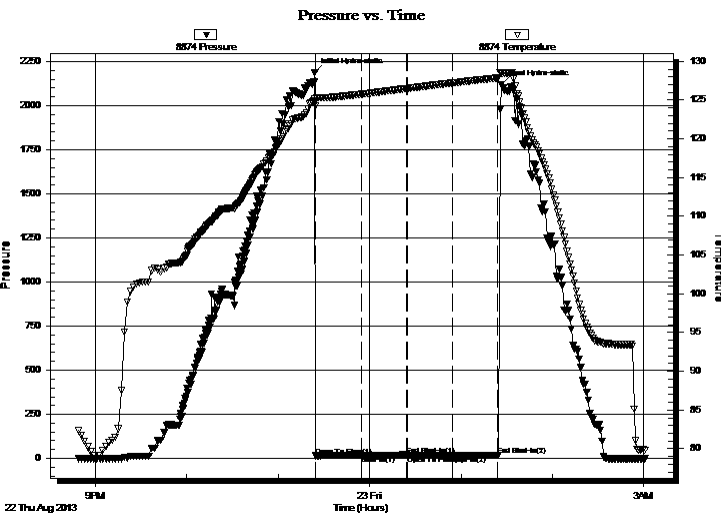
2013.08.23 @ 01:26:30

**TEST COMMENT:** 30 IF - Surface blow died @ 20 mins

30 ISI - No return

30 FF - No blow

30 FSI - No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.76	125.16	Initial Hydro-static
1	14.67	124.20	Open To Flow (1)
31	16.50	125.75	Shut-In(1)
60	20.04	126.49	End Shut-In(1)
61	16.62	126.51	Open To Flow (2)
91	17.06	127.21	Shut-In(2)
120	19.82	127.86	End Shut-In(2)
123	2119.73	128.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w/oil spots - 100%m	0.00

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53508

**DST#: 2**

ATTN: Larry Nicholson

Test Start: 2013.08.22 @ 20:48:00

### GENERAL INFORMATION:

Formation: **LKC "H"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:24:30  
 Time Test Ended: 03:00:30  
 Interval: **4397.00 ft (KB) To 4370.00 ft (KB) (TVD)**  
 Total Depth: 4397.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ryan Nichols  
 Unit No: 66  
 Reference Elevations: 3402.00 ft (KB)  
 3391.00 ft (CF)  
 KB to GR/CF: 11.00 ft

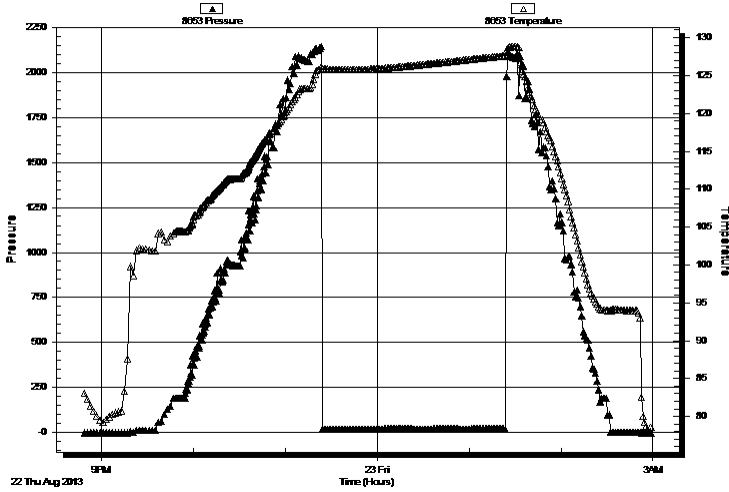
### Serial #: 8653

**Outside**

Press @ Run Depth: psig @ 4371.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.08.22 End Date: 2013.08.23 Last Calib.: 2013.08.23  
 Start Time: 20:49:00 End Time: 02:59:00 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30 IF - Surface blow died @ 20 mins  
 30 ISI - No return  
 30 FF - No blow  
 30 FSI - No return

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w/oil spots - 100%m	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**

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53508

**DST#: 2**

ATTN: Larry Nicholson

Test Start: 2013.08.22 @ 20:48:00

## Tool Information

Drill Pipe:	Length: 3997.00 ft	Diameter: 3.88 inches	Volume: 58.45 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4370.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	54.00 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			4348.00	
Hydraulic tool	5.00			4353.00	
Jars	5.00			4358.00	
Safety Joint	3.00			4361.00	
Packer	5.00			4366.00	27.00 Bottom Of Top Packer
Packer	4.00			4370.00	
Packer - Shale	0.00			4370.00	
Stubb	1.00			4371.00	
Recorder	0.00	8653	Outside	4371.00	
Recorder	0.00	8874	Inside	4371.00	
Perforations	21.00			4392.00	
Bullnose	5.00			4397.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53508

**DST#: 2**

ATTN: Larry Nicholson

Test Start: 2013.08.22 @ 20:48:00

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w/oil spots - 100%m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

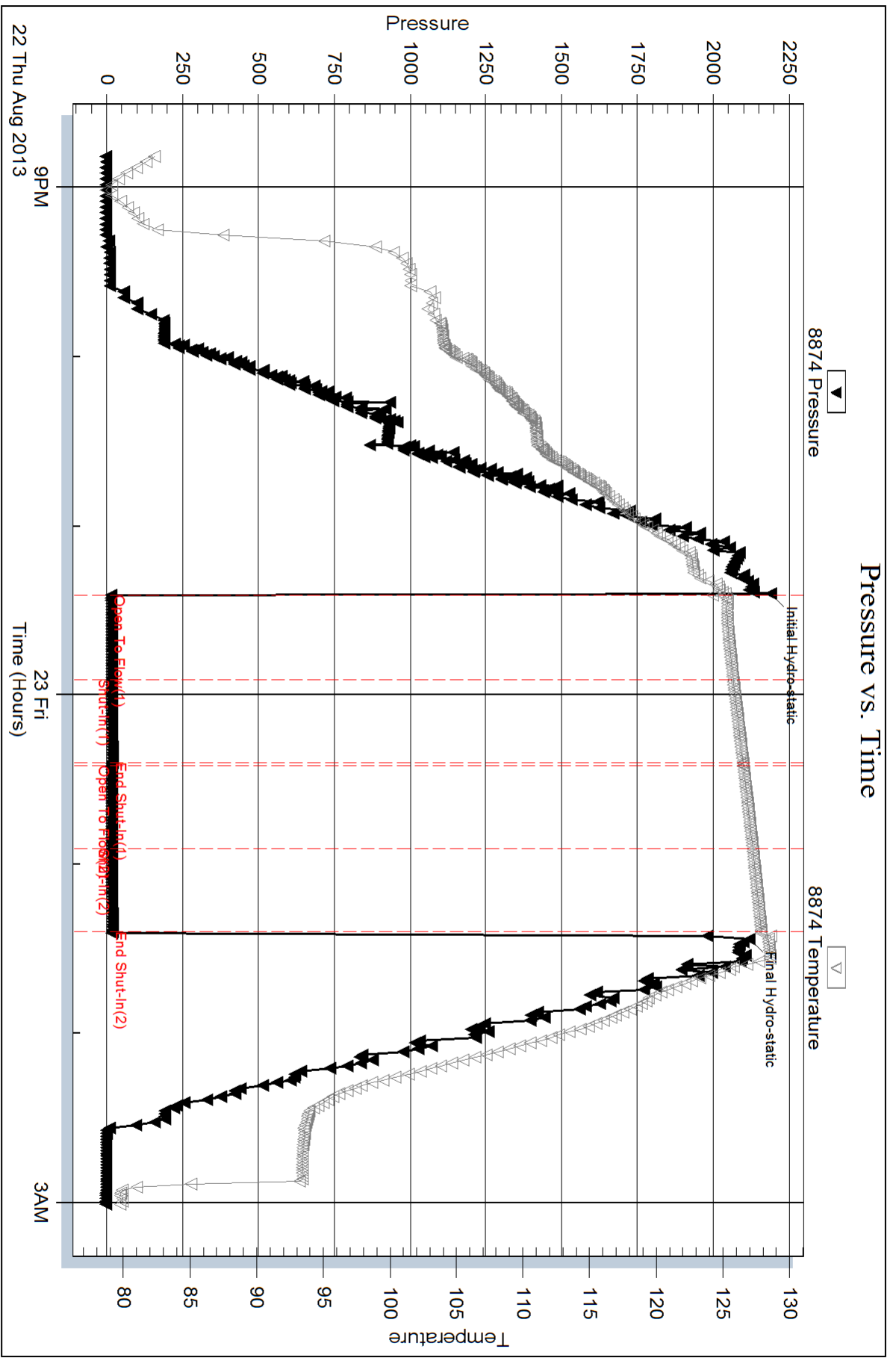
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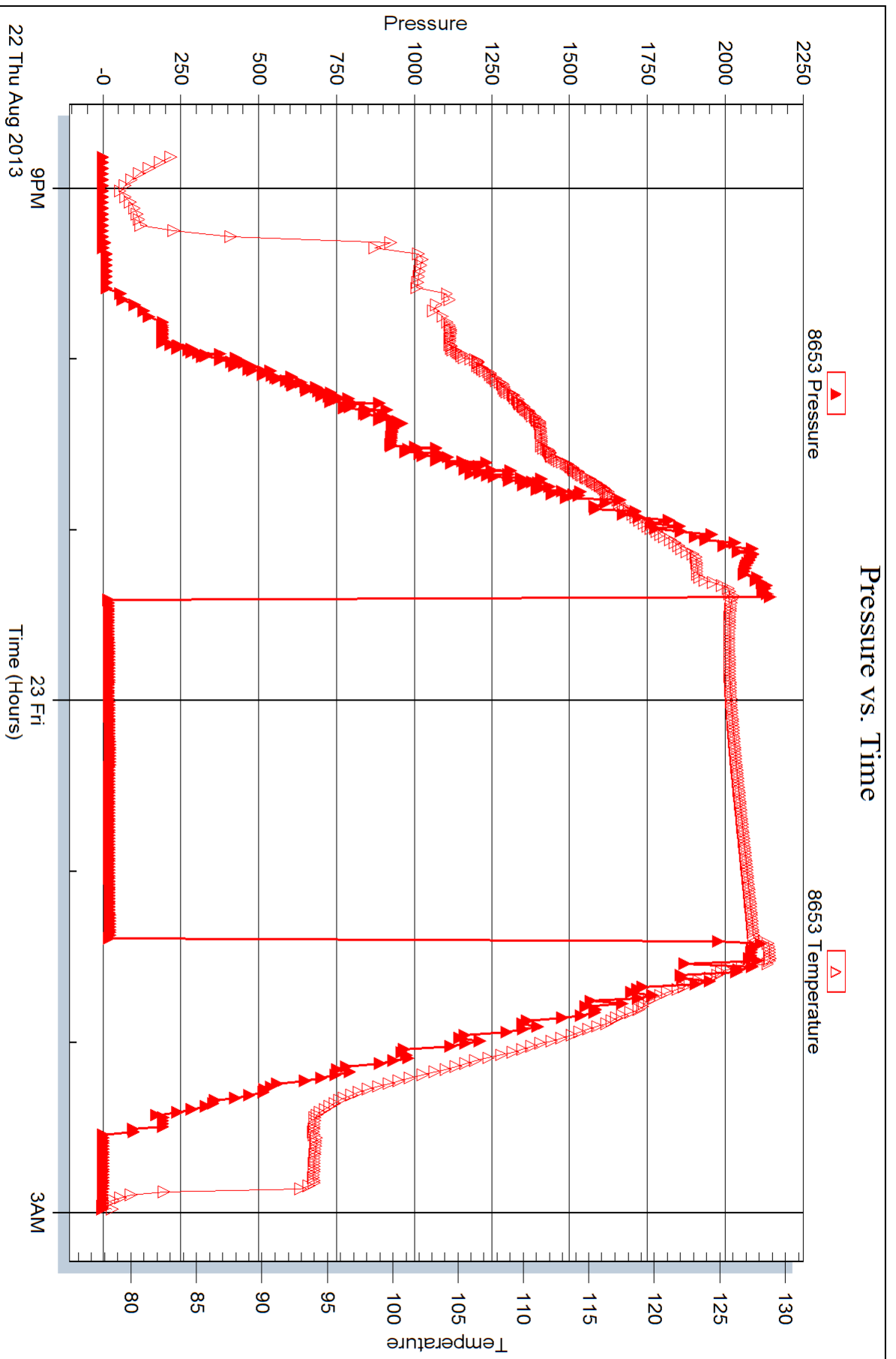
Inside

Ward Petroleum Corp.

Firegan #1-23

DST Test Number: 2







## DRILL STEM TEST REPORT

Prepared For: **Ward Petroleum Corp.**

502 S. Fillmore  
Enid OK 73703

ATTN: Larry Nicholson

### **Finegan #1-23**

#### **23-6s-38w Sherman,KS**

Start Date: 2013.08.23 @ 22:00:00

End Date: 2013.08.24 @ 06:16:30

Job Ticket #: 53364                      DST #: 3

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

Printed: 2013.08.27 @ 10:38:02



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53364

**DST#: 3**

ATTN: Larry Nicholson

Test Start: 2013.08.23 @ 22:00:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:08:30

Time Test Ended: 06:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4561.00 ft (KB) To 4586.00 ft (KB) (TVD)**

Reference Elevations: 3402.00 ft (KB)

Total Depth: 4586.00 ft (KB) (TVD)

3391.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8874**

**Inside**

Press @ Run Depth: 269.26 psig @ 4562.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.23

End Date:

2013.08.24

Last Calib.:

2013.08.24

Start Time: 22:01:00

End Time:

06:16:30

Time On Btm:

2013.08.24 @ 00:07:30

Time Off Btm:

2013.08.24 @ 04:00:00

## TEST COMMENT:

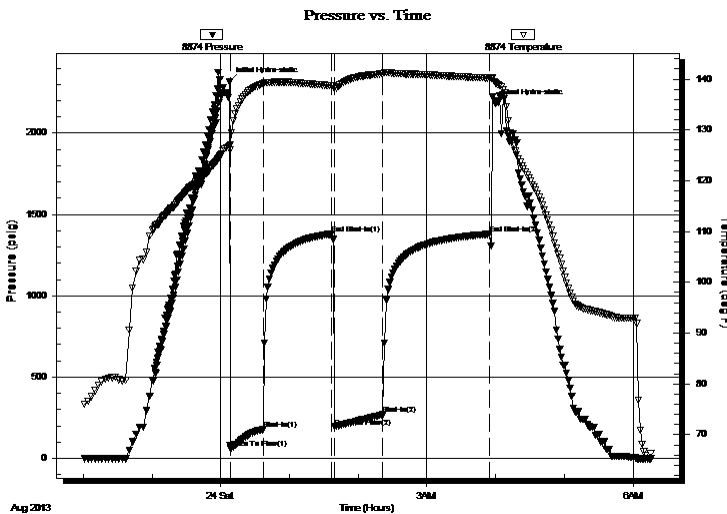
30 - IF- BOB in 11 min.

60 - IS- Weak Surface Return started at 2 min. Built to 3/4" then died back to 1/4"

45 - FF- BOB in 18 min.

90 - FS- Return built to BOB in 70 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.06	126.87	Initial Hydro-static
1	60.27	127.07	Open To Flow (1)
30	178.33	139.10	Shut-In(1)
89	1380.76	138.71	End Shut-In(1)
92	194.95	138.07	Open To Flow (2)
134	269.26	141.06	Shut-In(2)
227	1379.81	140.20	End Shut-In(2)
233	2181.04	139.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOCMW 20G 20o 40W 20M	0.89
180.00	GWOM 20G 30o 20W 30M	0.89
250.00	Clean Gassy Oil 30G 70o	3.45
0.00	400' GIP	0.00

## Gas Rates

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





# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Ward Petroleum Corp.

23-6s-38w Sherman, KS

502 S. Fillmore  
Enid OK 73703

Finegan #1-23

ATTN: Larry Nicholson

Job Ticket: 53364

DST#: 3

Test Start: 2013.08.23 @ 22:00:00

### GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:08:30

Time Test Ended: 06:16:30

Interval: **4561.00 ft (KB) To 4586.00 ft (KB) (TVD)**

Total Depth: 4586.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Reference Elevations: 3402.00 ft (KB)

3391.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8653

Outside

Press@RunDepth: psig @ 4562.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.23

End Date:

2013.08.24

Last Calib.:

2013.08.24

Start Time: 22:01:00

End Time:

06:15:00

Time On Btm:

Time Off Btm:

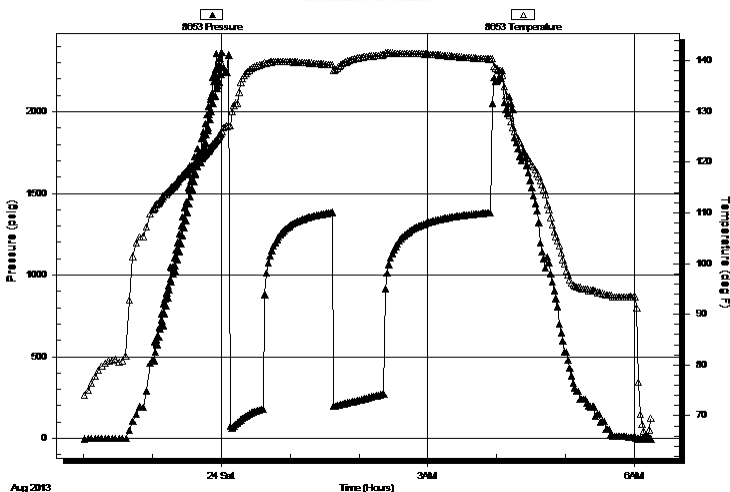
TEST COMMENT: 30 - IF- BOB in 11 min.

60 - IS- Weak Surface Return started at 2 min. Built to 3/4" then died back to 1/4"

45 - FF- BOB in 18 min.

90 - FS- Return built to BOB in 70 min.

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOCMW 20G 20o 40W 20M	0.89
180.00	GWOM 20G 30o 20W 30M	0.89
250.00	Clean Gassy Oil 30G 70o	3.45
0.00	400' GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53364

**DST#: 3**

ATTN: Larry Nicholson

Test Start: 2013.08.23 @ 22:00:00

## Tool Information

Drill Pipe:	Length: 4183.00 ft	Diameter: 3.80 inches	Volume: 58.68 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 60.48 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4561.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 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			4539.00	
Hydraulic tool	5.00			4544.00	
Jars	5.00			4549.00	
Safety Joint	3.00			4552.00	
Packer	5.00			4557.00	27.00 Bottom Of Top Packer
Packer	4.00			4561.00	
Stubb	1.00			4562.00	
Recorder	0.00	8653	Outside	4562.00	
Recorder	0.00	8874	Inside	4562.00	
Perforations	19.00			4581.00	
Bullnose	5.00			4586.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ward Petroleum Corp.

**23-6s-38w Sherman,KS**

502 S. Fillmore  
Enid OK 73703

**Finegan #1-23**

Job Ticket: 53364

**DST#: 3**

ATTN: Larry Nicholson

Test Start: 2013.08.23 @ 22:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	GOCMW 20G 20o 40W 20M	0.885
180.00	GWOM 20G 30o 20W 30M	0.885
250.00	Clean Gassy Oil 30G 70o	3.452
0.00	400' GIP	0.000

Total Length: 610.00 ft      Total Volume: 5.222 bbl

Num Fluid Samples: 0

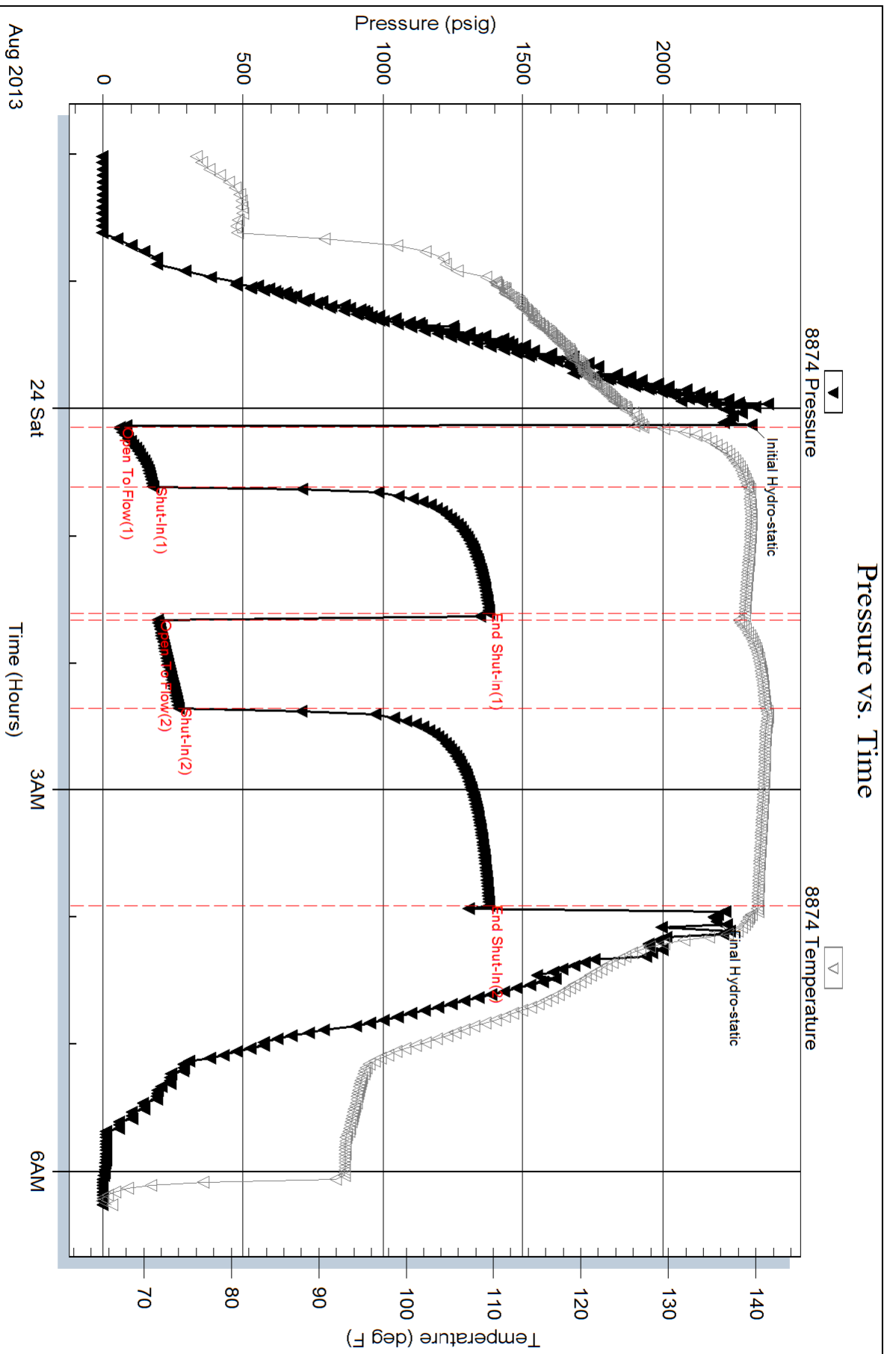
Num Gas Bombs: 0

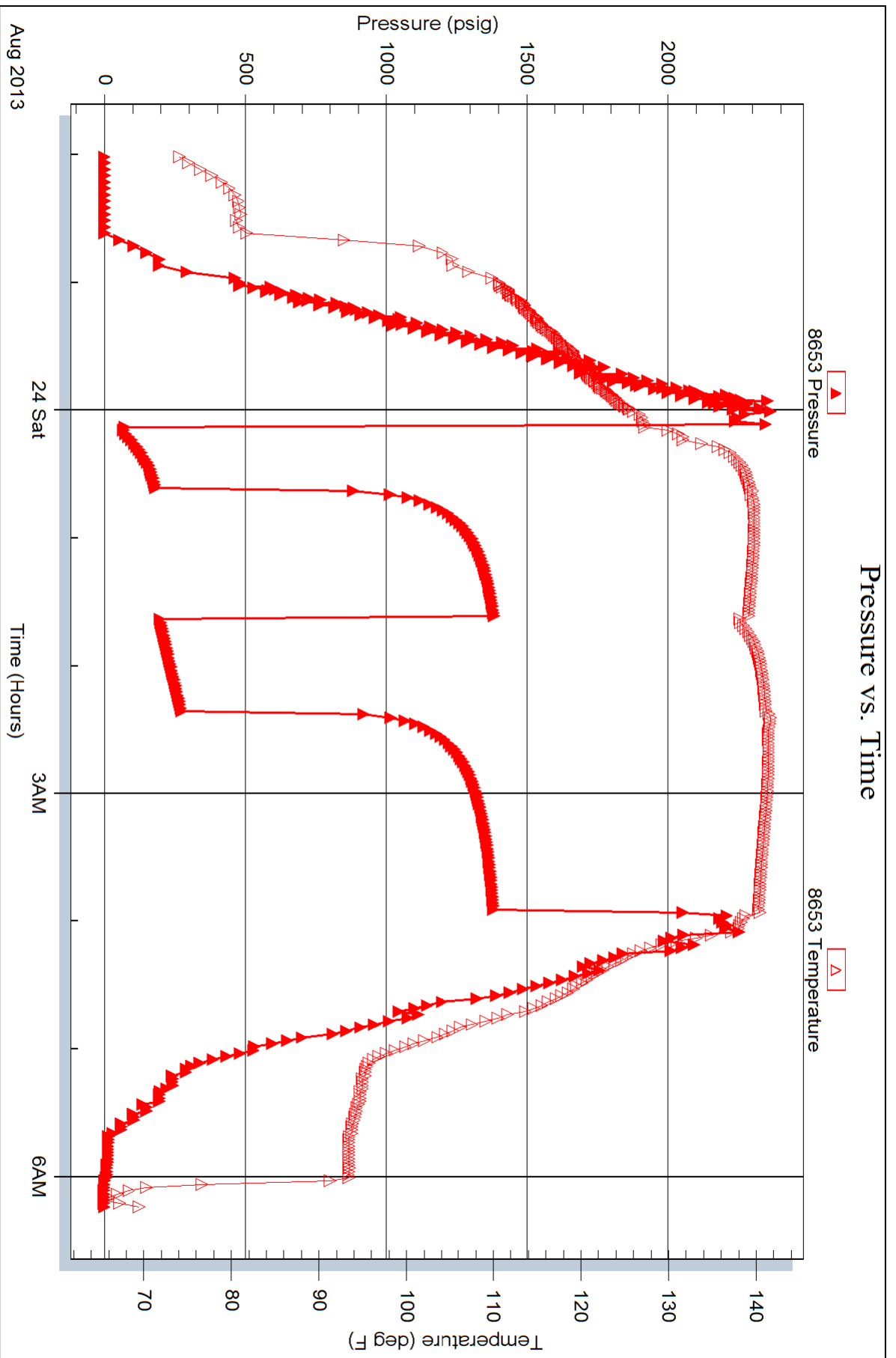
Serial #:

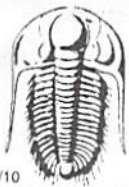
Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 28 @ 80 = 26







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53507

Well Name & No. Finnegan # 1-23 Test No. 1 Date 8/21/13  
 Company Ward Petroleum Corp. Elevation 3402 KB 3391 GL  
 Address 502 S. Fillmore Enid OK 73703  
 Co. Rep / Geo. Larry Nicholson Rig #2 #1  
 Location: Sec. 23 Twp. 6 S Rge. 38W Co. Sherman State KS

Interval Tested 4226 - 4266 Zone Tested LKC "c"  
 Anchor Length 40' Drill Pipe Run 3840 Mud Wt. 9.1  
 Top Packer Depth 4221 Drill Collars Run 366' Vis 55  
 Bottom Packer Depth 4226 Wt. Pipe Run 0' WL 8.0  
 Total Depth 4266 Chlorides 3400 ppm System LCM 2

Blow Description IF - 1/4" blow built to 8 1/2"  
ISI - No return  
FF - Surface blow started @ 5 mins built to 9"  
FSI - No return

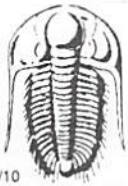
Rec	Feet of	%gas	%oil	%water	%mud
<u>73'</u>	<u>OWCM</u>	<u>2</u>	<u>43</u>	<u>55</u>	
<u>92'</u>	<u>OWCM</u>	<u>2</u>	<u>38</u>	<u>60</u>	
<u>274'</u>	<u>OMCW</u>	<u>2</u>	<u>68</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 439' BHT 132° Gravity — API RW .425 @ 68° F Chlorides 18,000 ppm

(A) Initial Hydrostatic 2085  Test 1250 T-On Location 22:00  
 (B) First Initial Flow 21  Jars 250 T-Started 23:02  
 (C) First Final Flow 118  Safety Joint 75 T-Open 01:09  
 (D) Initial Shut-In 1245  Circ Sub NC T-Pulled 04:54  
 (E) Second Initial Flow 133  Hourly Standby T-Out 06:51  
 (F) Second Final Flow 218  Mileage RT 150 Comments \_\_\_\_\_  
 (G) Final Shut-In 1217  Sampler 232.50 \_\_\_\_\_  
 (H) Final Hydrostatic 2041  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility 150 Total 2207.50  
 Sub Total 2207.50 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 45  
 Final Shut-In 90

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. 53508

4/10

Well Name & No. Ward Petroleum Corp Test No. 2 Date 8/22/13  
 Company Fenegan # 1-23 Elevation 3402 KB 3391 GL  
 Address 502 S. Fillmore Enid OK 73703  
 Co. Rep / Geo. Larry Nicholson Rig H2 #1  
 Location: Sec. 23 Twp. 25 Rge. 38W Co. Sherman State KS

Interval Tested 4370 - 4397 Zone Tested "H" Lansing  
 Anchor Length 27' Drill Pipe Run 3997' Mud Wt. 9.1  
 Top Packer Depth 4365 Drill Collars Run 366' Vis 55  
 Bottom Packer Depth 4370 Wt. Pipe Run 0' WL 8.0  
 Total Depth 4397 Chlorides 3400 ppm System LCM 2

Blow Description IF - Surface blow died @ 20 mins  
ISI - No return  
FF - No blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>Mud w/oil spots</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1' BHT 128° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2189</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>20:00</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:48</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:25</u>
(D) Initial Shut-In <u>20</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>01:25</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>03:00</u>
(F) Second Final Flow <u>17</u>	<input checked="" type="checkbox"/> Mileage <u>150 RT</u> 232.50	Comments
(G) Final Shut-In <u>20</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2120</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>2207.50</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>2207.50</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53364

Well Name & No. Fenegan #1-23 Test No. 3 Date 8-23-13  
 Company Ward Petroleum Corp. Elevation 3402 KB 3391 GL  
 Address 502 S. Fillmore Enid, OK 73703  
 Co. Rep / Geo. Larry Nicholson Rig H2 #1  
 Location: Sec. 23 Twp. 6S Rge. 38W Co. Sherman State KS

Interval Tested 4561-4586 Zone Tested Marmaton  
 Anchor Length 25' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.1  
 Top Packer Depth 4557 Drill Collars Run 366' Vis 59  
 Bottom Packer Depth 4561 Wt. Pipe Run Ø WL 9.6  
 Total Depth 4586 Chlorides 4,000 ppm System LCM 2#

Blow Description IF - BoB in 11 min.  
IST - Weak Surface Return Started at 2 min. Built to 3/4", then died  
FF - BoB in 18 min. back to 1/4"  
FST - Return Built to BoB in 70 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>Clear Gassy Oil</u>	<u>30</u>	<u>70</u>		
<u>180</u>	<u>SWOM</u>	<u>20</u>	<u>30</u>	<u>20</u>	<u>30</u>
<u>180</u>	<u>GOCMW</u>	<u>20</u>	<u>20</u>	<u>40</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
<u>400</u>	<u>GIP</u>	<u>100</u>			

Rec Total 610 BHT 140 Gravity 26 API RW - @ - °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic	<u>2315</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>9:45 PM</u>
(B) First Initial Flow	<u>60</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>10:00 AM</u>
(C) First Final Flow	<u>178</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>12:08 AM</u>
(D) Initial Shut-In	<u>1380</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NIC</u>	T-Pulled	<u>3:53 AM</u>
(E) Second Initial Flow	<u>194</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>6:30 AM</u>
(F) Second Final Flow	<u>269</u>	<input checked="" type="checkbox"/> Mileage	<u>150 RT X 2</u> 465	Comments	<u>loaded tools 8/25 9:45</u>
(G) Final Shut-In	<u>1379</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2181</u>	<input type="checkbox"/> Straddle			

Initial Open 30  Shale Packer Ø 250  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_ Sub Total 800  
 Final Shut-In 90  Day Standby 1d 3.25h Total 3240  
 Accessibility X2 150 MP/DST Disc't \_\_\_\_\_  
 Sub Total 2440

Approved By \_\_\_\_\_ Our Representative [Signature]

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