

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc

562 West State Road 4
Olmitz, Ks 67564

ATTN: Bob Lew ellyn

JoAnn Unit #1-32

32 17s 28w Lane Ks

Job Ticket: 43187

DST#: 1

Test Start: 2011.05.23 @ 22:42:00

GENERAL INFORMATION:

Formation: **Lansing H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:50:15

Time Test Ended: 05:57:00

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4148.00 ft (KB) To 4177.00 ft (KB) (TVD)

Total Depth: 4177.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2769.00 ft (KB)

2762.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8652 Inside

Press@RunDepth: 17.75 psig @ 4149.00 ft (KB)

Start Date: 2011.05.23

End Date:

2011.05.24

Start Time: 22:42:05

End Time:

05:56:59

Capacity: 8000.00 psig

Last Calib.: 2011.05.24

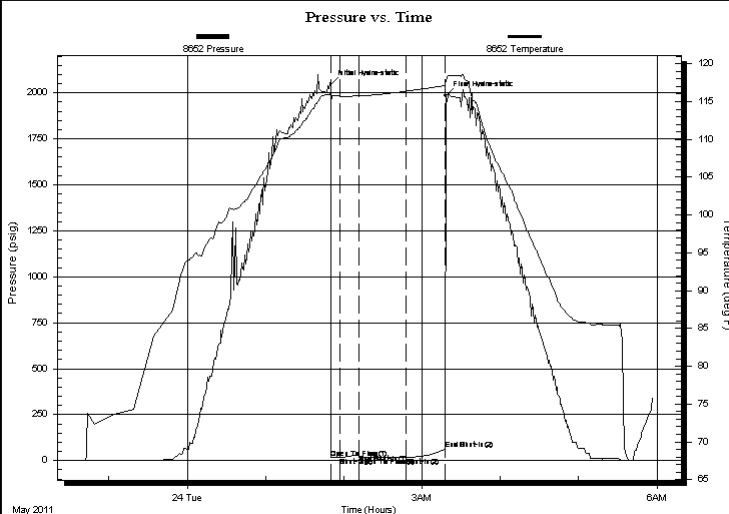
Time On Btm: 2011.05.24 @ 01:50:00

Time Off Btm: 2011.05.24 @ 03:18:15

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: No blow .
FSI No return blow .

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2045.55	116.13	Initial Hydro-static
1	15.47	114.82	Open To Flow (1)
8	17.59	115.72	Shut-In(1)
22	36.89	115.75	End Shut-In(1)
22	17.12	115.74	Open To Flow (2)
58	17.75	116.37	Shut-In(2)
88	63.92	117.14	End Shut-In(2)
89	1985.35	117.95	Final Hydro-static

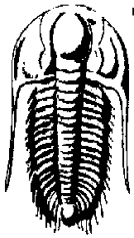


Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud (oil spots)	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43187

DST#: 1

ATTN: Bob Lew ellyn

Test Start: 2011.05.23 @ 22:42:00

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:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud (oil spots)	0.014

Total Length: 3.00 ft

Total Volume: 0.014 bbl

Num Fluid Samples: 0

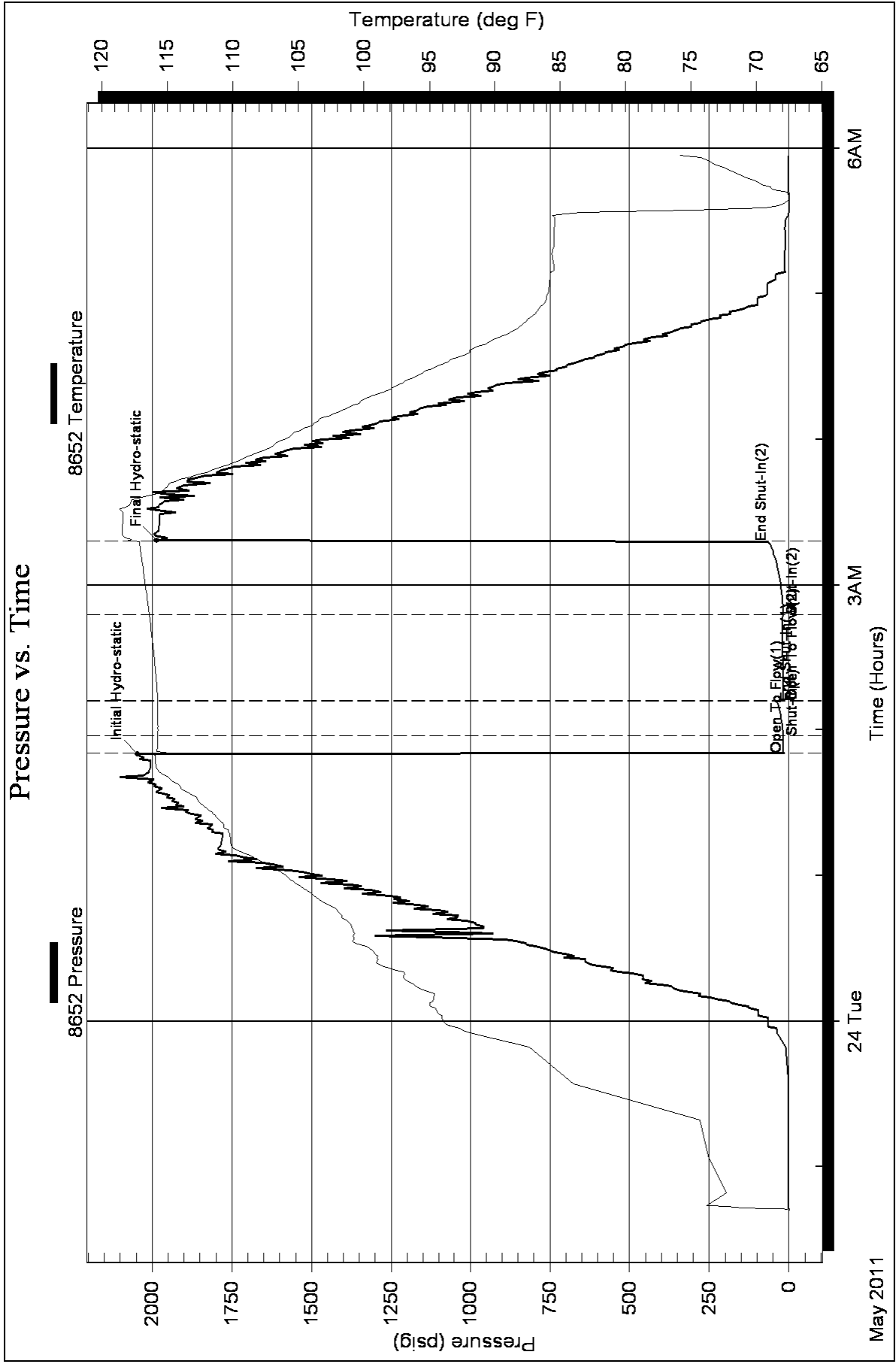
Num Gas Bombs: 0

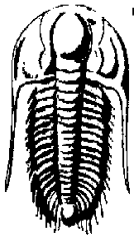
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Larson Engineering, Inc

562 West State Road 4
Olmitz, Ks 67564

ATTN: Bob Lew ellyn

JoAnn Unit #1-32

32 17s 28w Lane Ks

Job Ticket: 43188

DST#: 2

Test Start: 2011.05.24 @ 15:08:00

GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:28:45

Time Test Ended: 20:33:45

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4180.00 ft (KB) To 4210.00 ft (KB) (TVD)

Reference Elevations: 2769.00 ft (KB)

Total Depth: 4210.00 ft (KB) (TVD)

2762.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8652 Inside

Press@RunDepth: 19.11 psig @ 4181.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.24

End Date:

2011.05.24

Last Calib.: 2011.05.24

Start Time: 15:08:05

End Time:

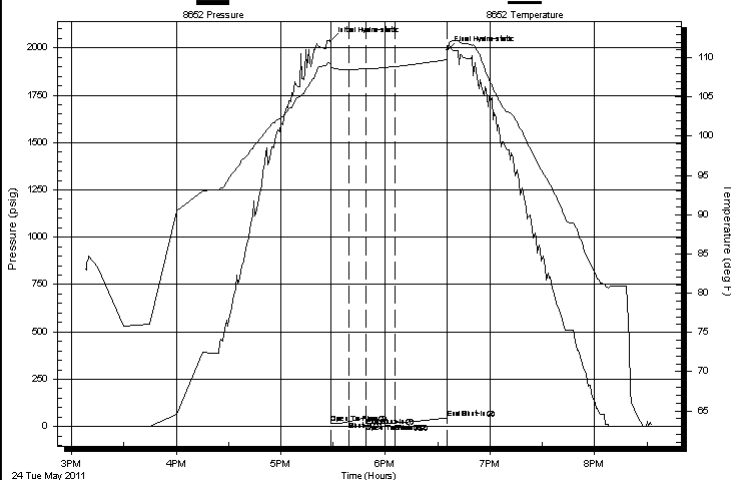
20:33:44

Time On Btm: 2011.05.24 @ 17:28:30

Time Off Btm: 2011.05.24 @ 18:35:30

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: No blow .
FS: No return blow .

Pressure vs. Time



PRESSURE SUMMARY

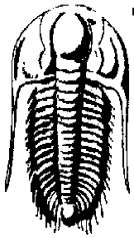
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.91	109.29	Initial Hydro-static
1	17.18	108.43	Open To Flow (1)
11	25.96	108.51	Shut-In(1)
21	47.42	108.59	End Shut-In(1)
21	17.76	108.57	Open To Flow (2)
37	19.11	108.86	Shut-In(2)
67	45.88	109.76	End Shut-In(2)
67	1987.67	110.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud (oil spots)	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43188

DST#: 2

ATTN: Bob Lew ellyn

Test Start: 2011.05.24 @ 15:08:00

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud (oil spots)	0.024

Total Length: 5.00 ft

Total Volume: 0.024 bbl

Num Fluid Samples: 0

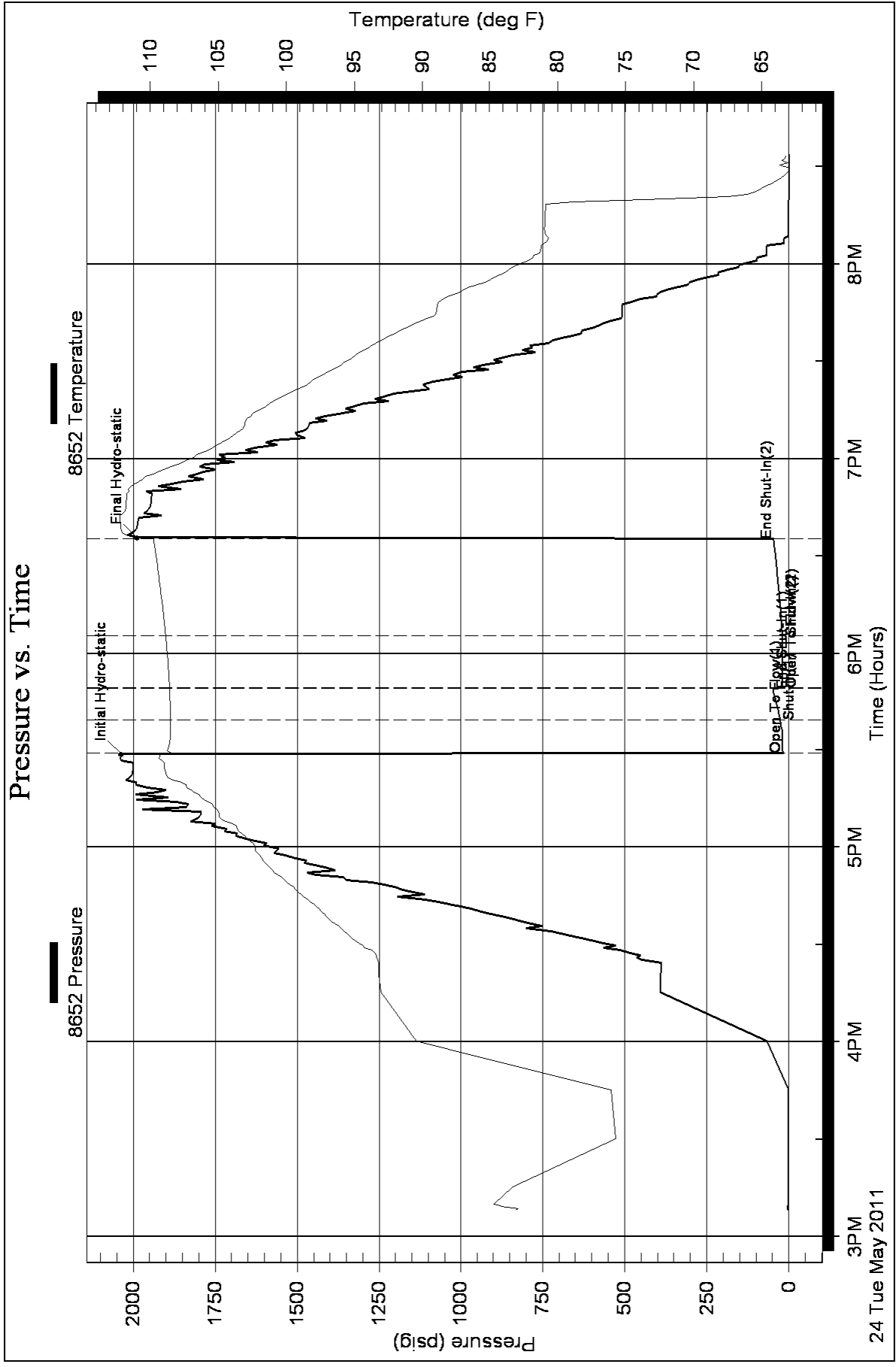
Num Gas Bombs: 0

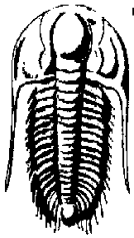
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
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DRILL STEM TEST REPORT

Larson Engineering, Inc

562 West State Road 4
Olmitz, Ks 67564

ATTN: Bob Lew ellyn

JoAnn Unit #1-32

32 17s 28w Lane Ks

Job Ticket: 43189

DST#: 3

Test Start: 2011.05.25 @ 05:14:00

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:40:45

Time Test Ended: 11:46:45

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4210.00 ft (KB) To 4242.00 ft (KB) (TVD)

Total Depth: 4242.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2769.00 ft (KB)

2762.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8652 Inside

Press@RunDepth: 154.01 psig @ 4211.00 ft (KB)

Start Date: 2011.05.25

End Date:

2011.05.25

Start Time: 05:14:05

End Time:

11:46:44

Capacity: 8000.00 psig

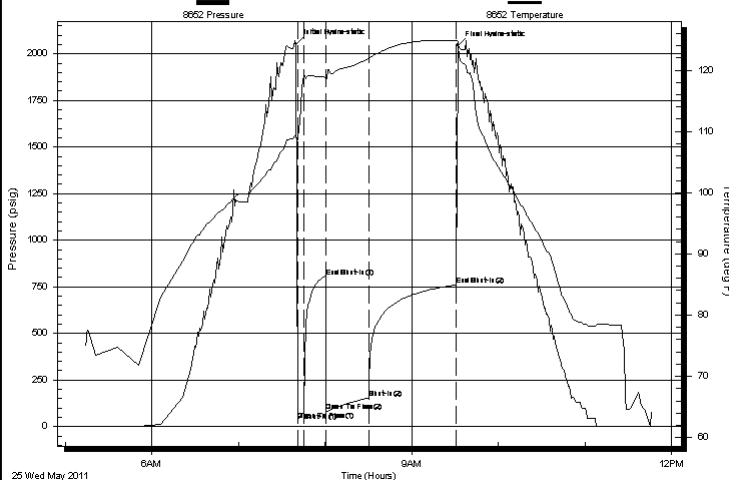
Last Calib.: 2011.05.25

Time On Btm: 2011.05.25 @ 07:40:15

Time Off Btm: 2011.05.25 @ 09:32:00

TEST COMMENT: IF: 5 inches blow .
IS: No return blow .
FF: BOB @ 15minutes.
FS: No return blow .

Pressure vs. Time



PRESSURE SUMMARY

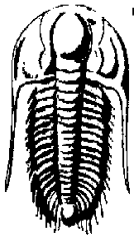
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.36	109.23	Initial Hydro-static
1	33.93	108.66	Open To Flow (1)
6	74.40	119.10	Shut-In(1)
20	800.82	118.83	End Shut-In(1)
21	82.55	118.38	Open To Flow (2)
50	154.01	121.89	Shut-In(2)
111	759.29	124.80	End Shut-In(2)
112	2045.85	123.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
295.00	mcw 10m 90w	3.07
5.00	oil 100o	0.07

Gas Rates

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

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43189

DST#: 3

ATTN: Bob Lew ellyn

Test Start: 2011.05.25 @ 05:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

71000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
295.00	mcw 10m 90w	3.066
5.00	oil 100o	0.070

Total Length: 300.00 ft

Total Volume: 3.136 bbl

Num Fluid Samples: 0

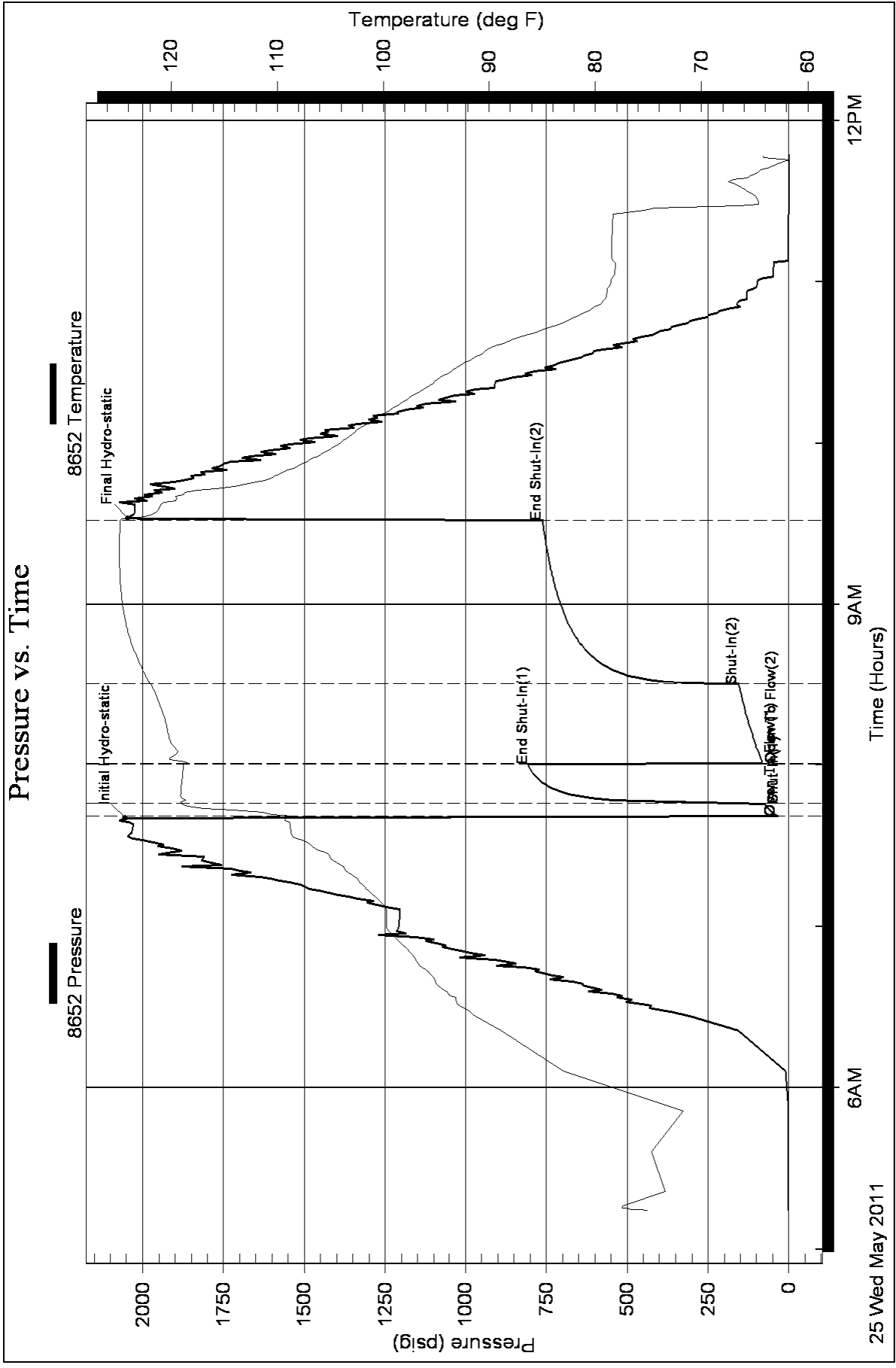
Num Gas Bombs: 0

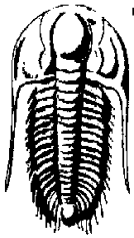
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .117 @ 65f = 71000ppm





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Olmitz, Ks 67564

ATTN: Bob Lew ellyn

JoAnn Unit #1-32

32 17s 28w Lane Ks

Job Ticket: 43190

DST#: 4

Test Start: 2011.05.25 @ 23:07:00

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:27:15

Time Test Ended: 04:44:15

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4242.00 ft (KB) To 4289.00 ft (KB) (TVD)

Reference Elevations: 2769.00 ft (KB)

Total Depth: 4269.00 ft (KB) (TVD)

2762.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8652 Inside

Press@RunDepth: 21.35 psig @ 4243.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.25

End Date:

2011.05.26

Last Calib.: 2011.05.26

Start Time: 23:07:05

End Time:

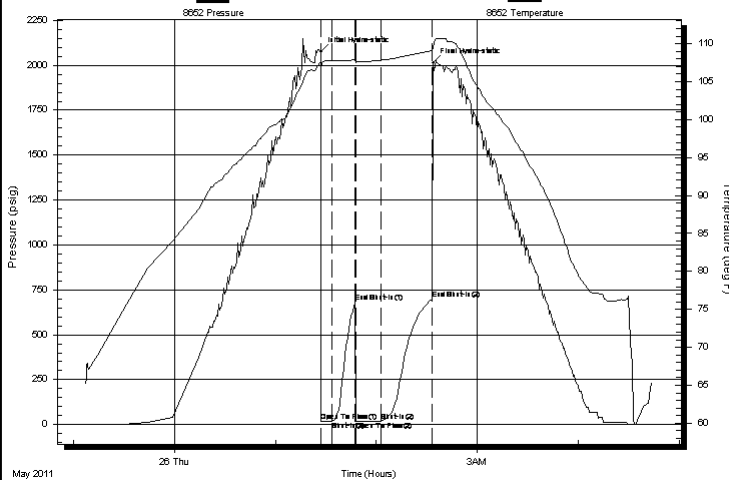
04:44:14

Time On Btm: 2011.05.26 @ 01:27:00

Time Off Btm: 2011.05.26 @ 02:33:45

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: Surface blow , died @ 5 minutes.
FS: No return blow .

Pressure vs. Time



PRESSURE SUMMARY

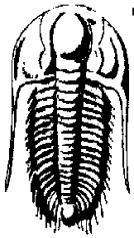
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.84	107.64	Initial Hydro-static
1	18.20	106.47	Open To Flow (1)
7	20.83	107.77	Shut-In(1)
21	683.01	107.85	End Shut-In(1)
21	19.73	107.50	Open To Flow (2)
36	21.35	107.83	Shut-In(2)
66	698.44	109.08	End Shut-In(2)
67	2012.12	109.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud (oil spots in tool)	0.01

Gas Rates

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

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43190

DST#: 4

ATTN: Bob Lew ellyn

Test Start: 2011.05.25 @ 23:07:00

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: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud (oil spots in tool)	0.014

Total Length: 3.00 ft

Total Volume: 0.014 bbl

Num Fluid Samples: 0

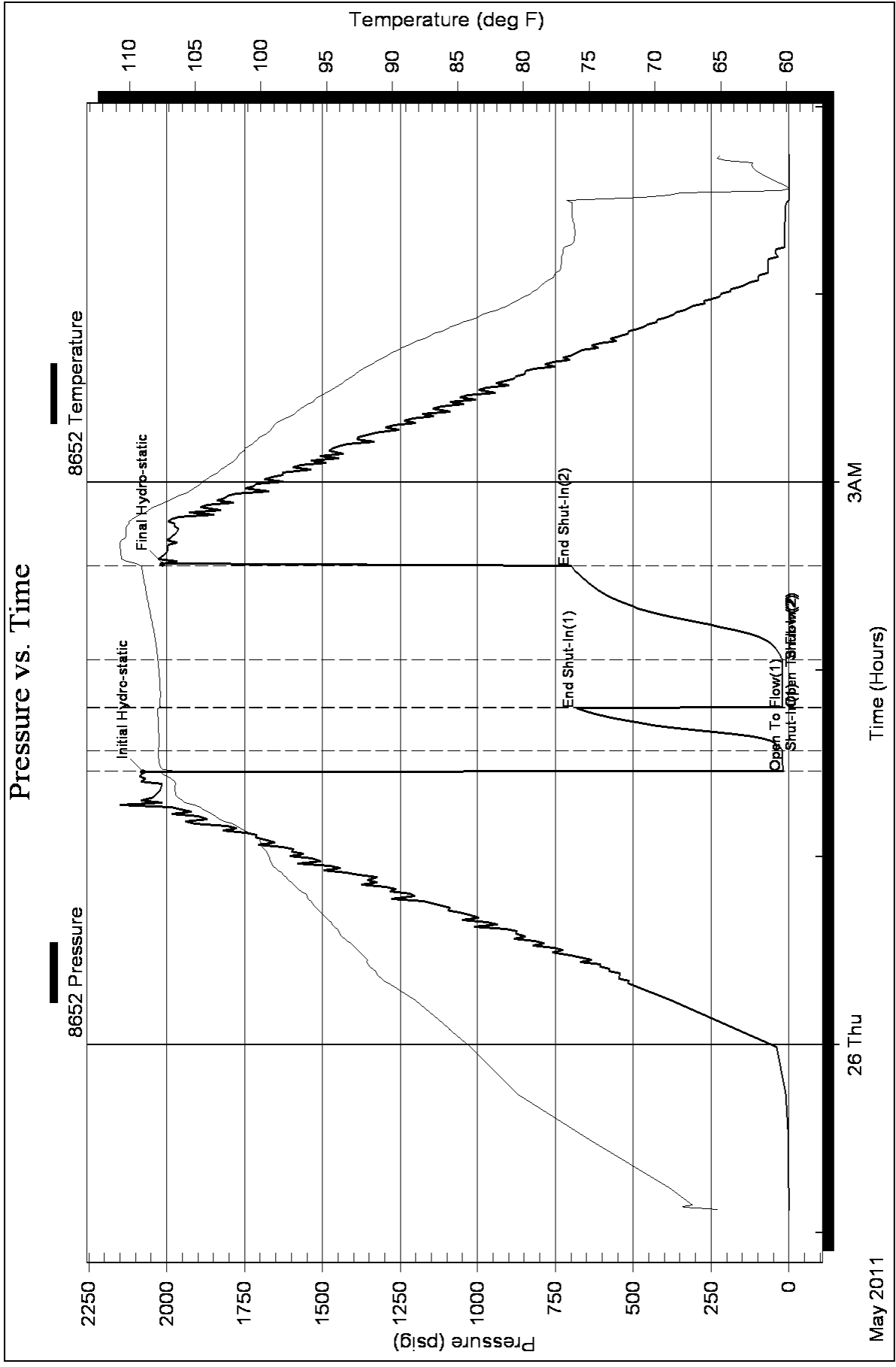
Num Gas Bombs: 0

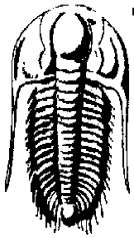
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Larson Engineering, Inc

562 West State Road 4
Olmitz, Ks 67564

ATTN: Bob Lew ellyn

JoAnn Unit #1-32

32 17s 28w Lane Ks

Job Ticket: 43191

DST#: 5

Test Start: 2011.05.26 @ 15:09:00

GENERAL INFORMATION:

Formation: **Lansing L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:01:00

Time Test Ended: 20:01:15

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4276.00 ft (KB) To 4301.00 ft (KB) (TVD)

Total Depth: 4301.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2769.00 ft (KB)

2762.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8652 Inside

Press@RunDepth: 18.47 psig @ 4277.00 ft (KB)

Start Date: 2011.05.26

End Date:

2011.05.26

Start Time: 15:09:05

End Time:

20:01:14

Capacity: 8000.00 psig

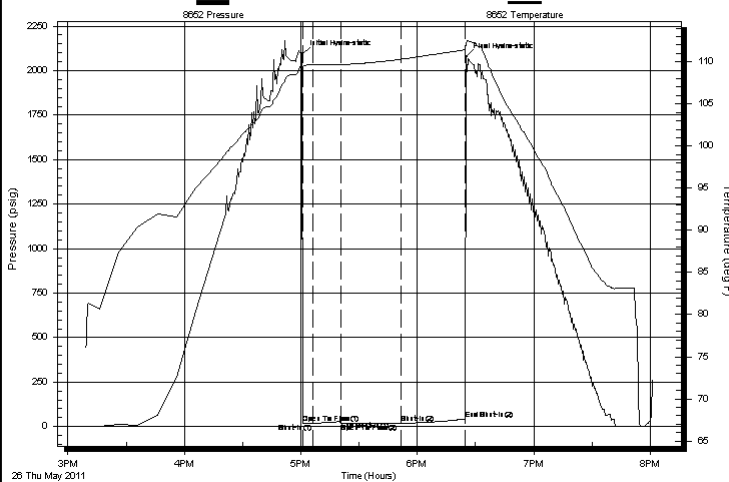
Last Calib.: 2011.05.26

Time On Btm: 2011.05.26 @ 17:00:45

Time Off Btm: 2011.05.26 @ 18:25:15

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: No blow .
FS: No return blow .

Pressure vs. Time



PRESSURE SUMMARY

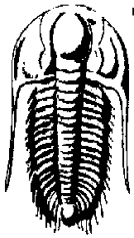
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2092.67	109.68	Initial Hydro-static
1	17.82	108.96	Open To Flow (1)
6	18.04	109.67	Shut-In(1)
20	28.59	109.69	End Shut-In(1)
20	17.08	109.69	Open To Flow (2)
51	18.47	110.32	Shut-In(2)
84	43.51	111.44	End Shut-In(2)
85	2076.20	112.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud (oil spots)	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43191

DST#: 5

ATTN: Bob Lew ellyn

Test Start: 2011.05.26 @ 15:09:00

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:

bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud (oil spots)	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

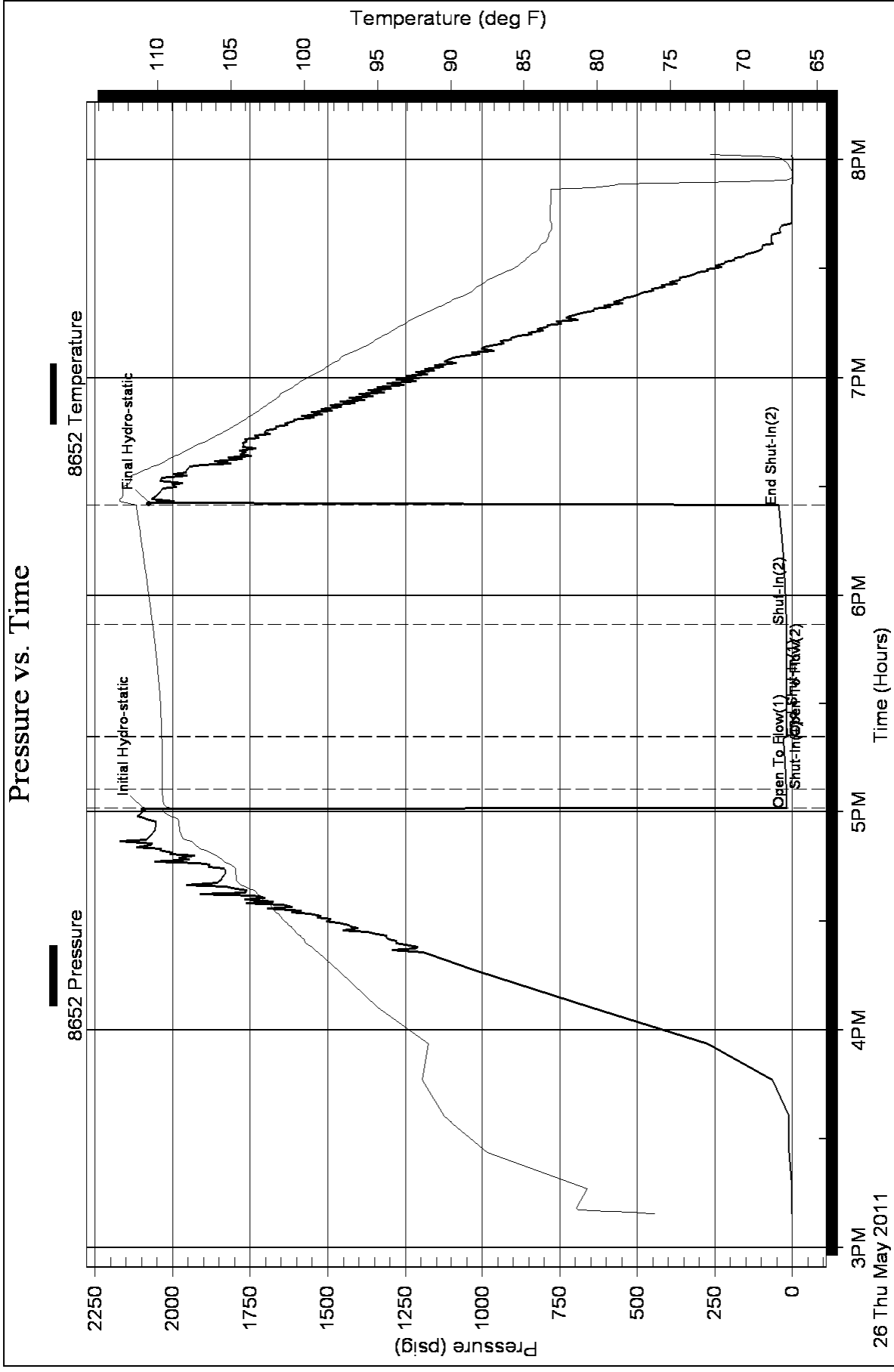
Num Gas Bombs: 0

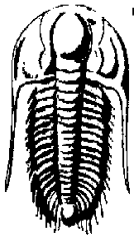
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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562 West State Road 4
Olmitz, Ks 67564

ATTN: Bob Lew ellyn

JoAnn Unit #1-32

32 17s 28w Lane Ks

Job Ticket: 43192

DST#: 6

Test Start: 2011.05.27 @ 02:49:00

GENERAL INFORMATION:

Formation: **Lansing L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:10:00

Time Test Ended: 08:47:00

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4278.00 ft (KB) To 4311.00 ft (KB) (TVD)

Total Depth: 4311.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2769.00 ft (KB)

2762.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8652 Inside

Press@RunDepth: 18.78 psig @ 4279.00 ft (KB)

Start Date: 2011.05.27

End Date:

2011.05.27

Start Time: 02:49:05

End Time:

08:46:59

Capacity: 8000.00 psig

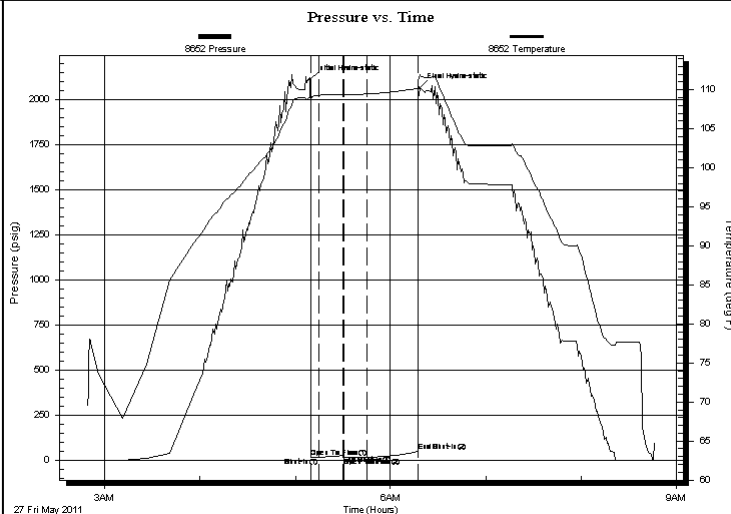
Last Calib.: 2011.05.27

Time On Btm: 2011.05.27 @ 05:09:30

Time Off Btm: 2011.05.27 @ 06:18:30

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: No blow .
FS: No return blow .

PRESSURE SUMMARY



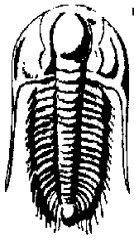
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.34	109.21	Initial Hydro-static
1	18.36	108.63	Open To Flow (1)
6	18.67	109.29	Shut-In(1)
21	27.72	109.37	End Shut-In(1)
22	17.28	109.37	Open To Flow (2)
36	18.78	109.47	Shut-In(2)
68	49.72	110.15	End Shut-In(2)
69	2062.57	111.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud (oil spots)	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TESTING, INC

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FLUID SUMMARY

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43192

DST#: 6

ATTN: Bob Lew ellyn

Test Start: 2011.05.27 @ 02:49:00

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:

bbl

Water Loss: 6.70 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud (oil spots)	0.009

Total Length: 2.00 ft Total Volume: 0.009 bbl

Num Fluid Samples: 0

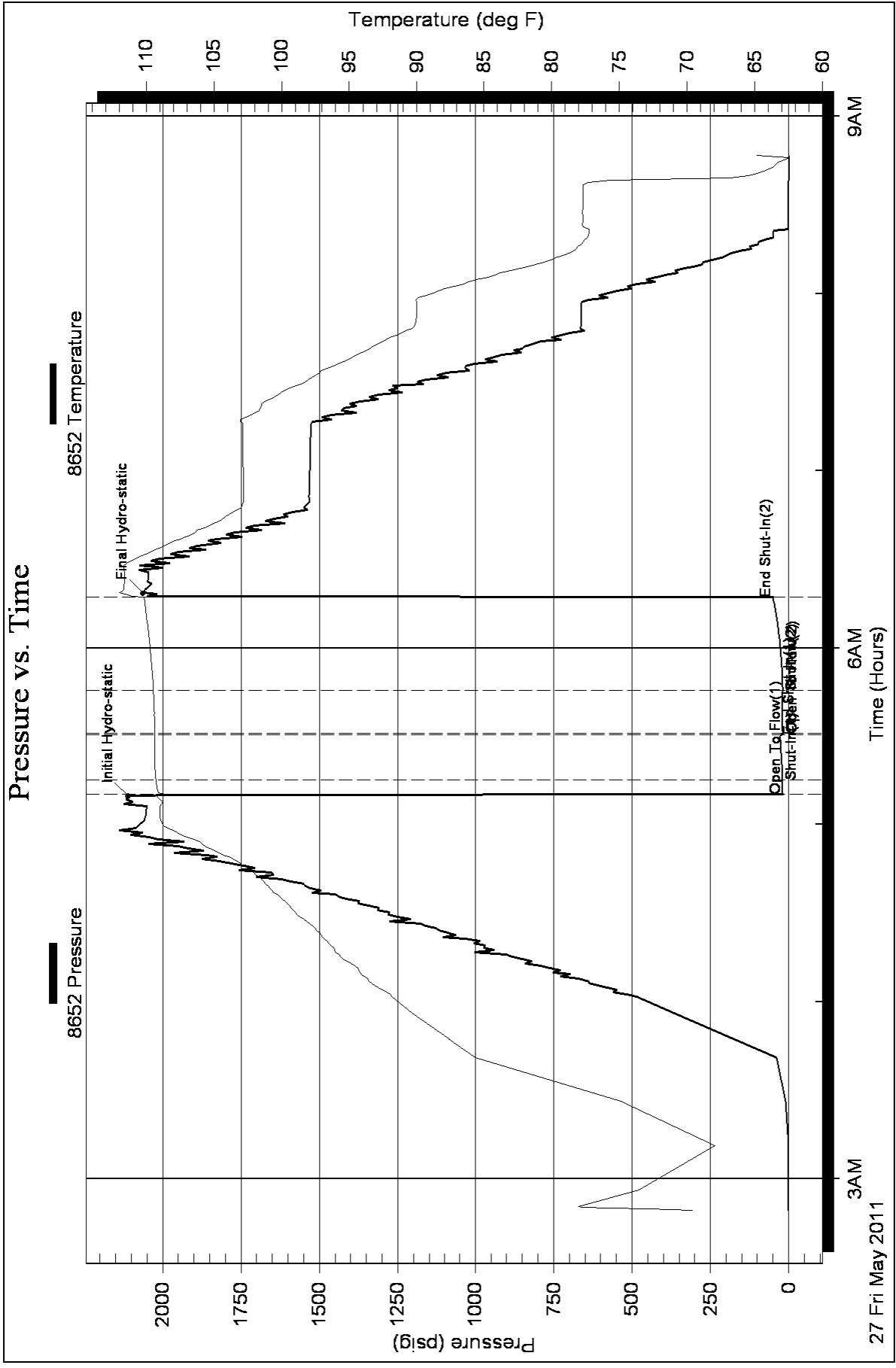
Num Gas Bombs: 0

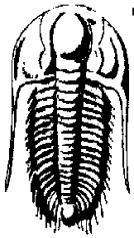
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc

562 West State Road 4
Olmitz, Ks 67564

ATTN: Bob Lew ellyn

JoAnn Unit #1-32

32 17s 28w Lane Ks

Job Ticket: 43193

DST#: 7

Test Start: 2011.05.28 @ 02:13:00

GENERAL INFORMATION:

Formation: **Marmaton - Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:19:45

Time Test Ended: 09:08:00

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4316.00 ft (KB) To 4410.00 ft (KB) (TVD)

Total Depth: 4410.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2769.00 ft (KB)

2762.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8652 Inside

Press@RunDepth: 112.82 psig @ 4317.00 ft (KB)

Start Date: 2011.05.28

End Date:

2011.05.28

Start Time: 02:13:05

End Time:

09:07:59

Capacity: 8000.00 psig

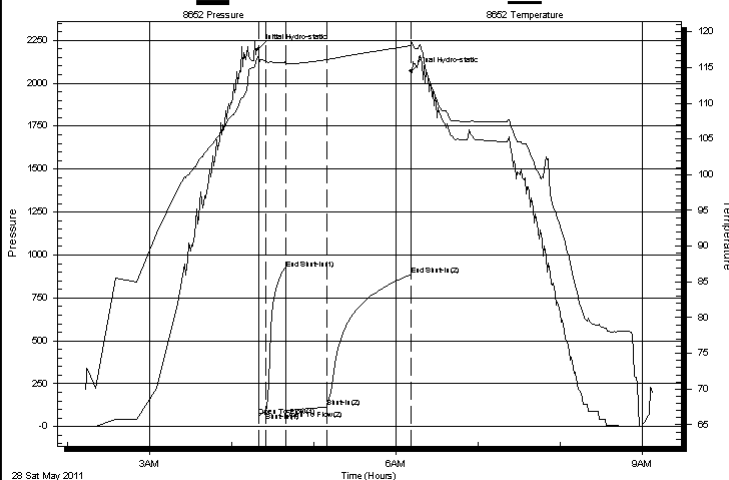
Last Calib.: 2011.05.28

Time On Btm: 2011.05.28 @ 04:19:30

Time Off Btm: 2011.05.28 @ 06:10:45

TEST COMMENT: IF: 4 inches blow .
IS: No return blow .
FF: BOB@ 11 minutes.
FS: Surface blow , died @ 15 minutes.

Pressure vs. Time



PRESSURE SUMMARY

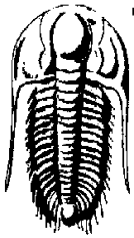
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2201.20	116.64	Initial Hydro-static
1	62.34	115.44	Open To Flow (1)
6	85.63	115.95	Shut-In(1)
20	916.64	115.74	End Shut-In(1)
20	95.36	115.41	Open To Flow (2)
50	112.82	116.08	Shut-In(2)
111	883.07	118.04	End Shut-In(2)
112	2068.47	118.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	ocm 50o 50m	1.03
20.00	oil 100o	0.28
0.00	70 ft GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43193

DST#: 7

ATTN: Bob Lew ellyn

Test Start: 2011.05.28 @ 02:13:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

33 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	ocm 50o 50m	1.032
20.00	oil 100o	0.281
0.00	70 ft GIP	0.000

Total Length: 170.00 ft

Total Volume: 1.313 bbl

Num Fluid Samples: 0

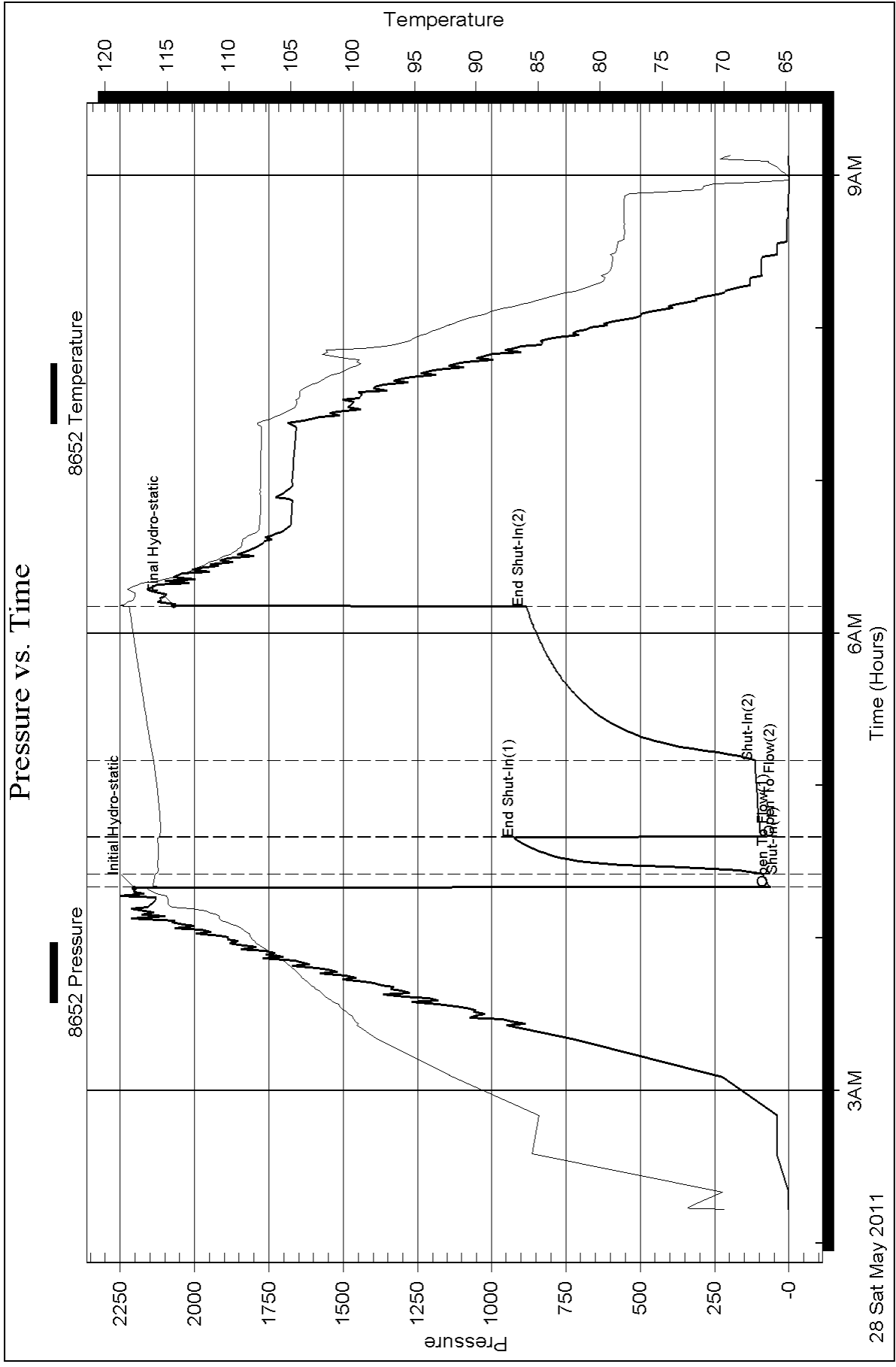
Num Gas Bombs: 0

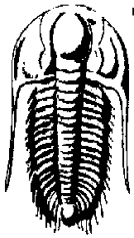
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc

562 West State Road 4
Olmitz, Ks 67564

ATTN: Bob Lew ellyn

JoAnn Unit #1-32

32 17s 28w Lane Ks

Job Ticket: 43194

DST#: 8

Test Start: 2011.05.29 @ 04:17:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:39:45

Time Test Ended: 10:57:15

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4413.00 ft (KB) To 4520.00 ft (KB) (TVD)

Total Depth: 4520.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2769.00 ft (KB)

2762.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8652 Inside

Press@RunDepth: 148.08 psig @ 4521.00 ft (KB)

Start Date: 2011.05.29

End Date:

2011.05.29

Start Time: 04:17:05

End Time:

10:57:14

Capacity: 8000.00 psig

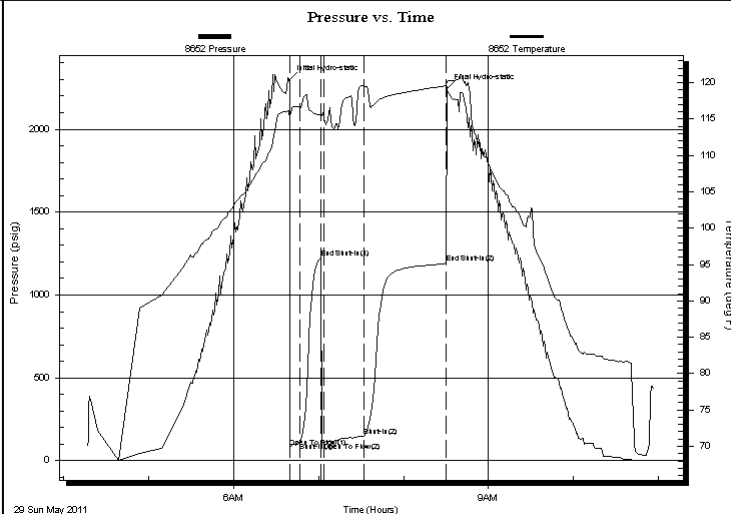
Last Calib.: 2011.05.29

Time On Btm: 2011.05.29 @ 06:39:30

Time Off Btm: 2011.05.29 @ 08:31:00

TEST COMMENT: IF: 4 inches blow .
IS: No return blow .
FF: BOB @ 7 minutes.
FS: 1/2 inch return blow , died @ 40 minutes.

PRESSURE SUMMARY



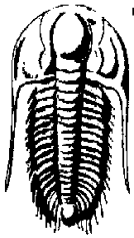
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.04	116.23	Initial Hydro-static
1	80.35	114.85	Open To Flow (1)
8	112.15	116.65	Shut-In(1)
22	1224.81	115.65	End Shut-In(1)
24	110.22	115.31	Open To Flow (2)
53	148.08	119.53	Shut-In(2)
111	1190.83	119.60	End Shut-In(2)
112	2246.36	120.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 10o 90m	0.28
165.00	gocm 45g 20o 35m	1.80
0.00	495 ft GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43194

DST#: 8

ATTN: Bob Lew ellyn

Test Start: 2011.05.29 @ 04:17:00

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	ocm 10o 90m	0.282
165.00	gocm 45g 20o 35m	1.802
0.00	495 ft GIP	0.000

Total Length: 225.00 ft

Total Volume: 2.084 bbl

Num Fluid Samples: 0

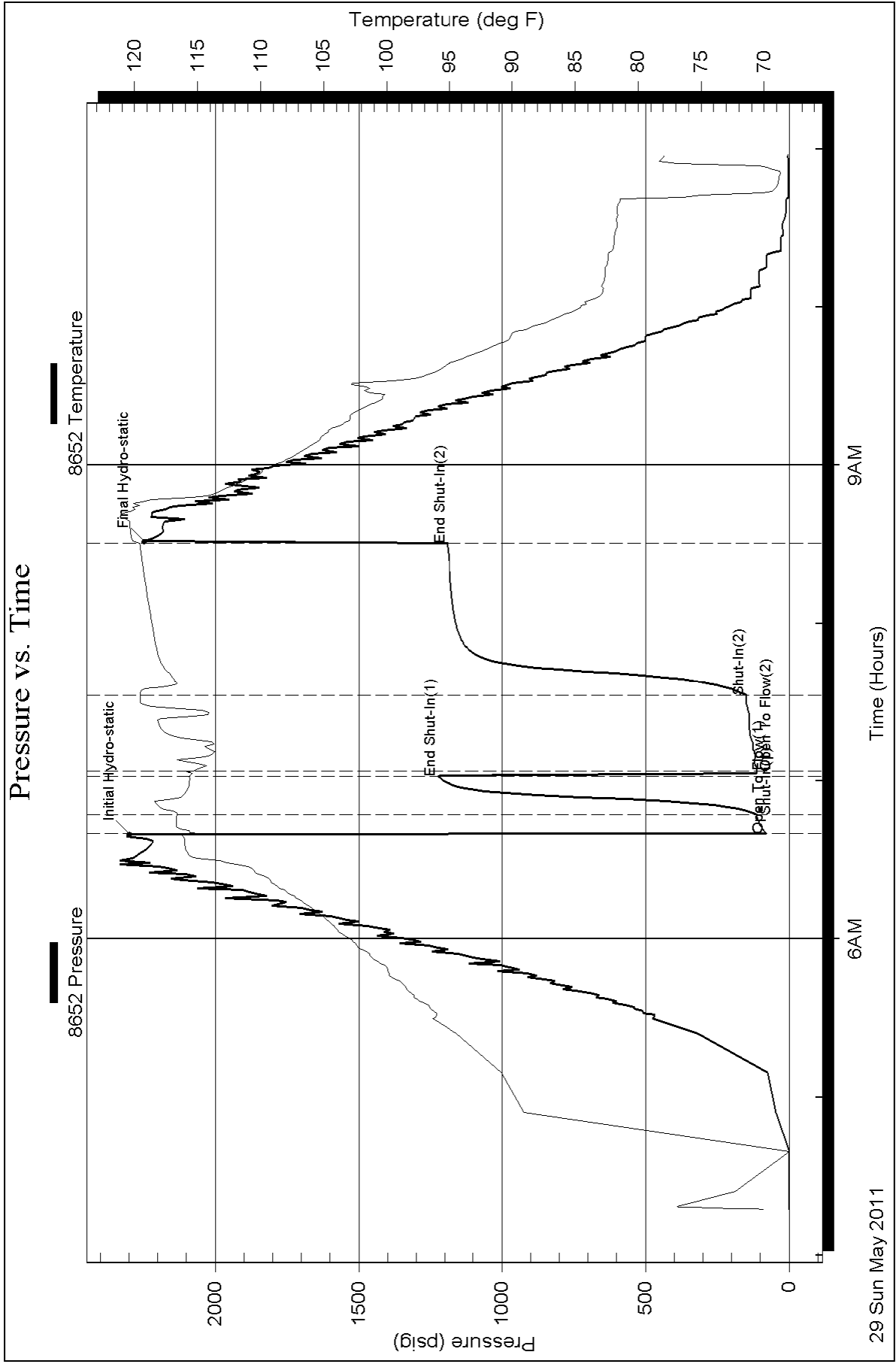
Num Gas Bombs: 0

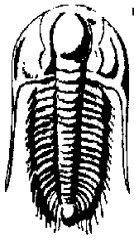
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc

562 West State Road 4
Olmitz, Ks 67564

ATTN: Bob Lew ellyn

JoAnn Unit #1-32

32 17s 28w Lane Ks

Job Ticket: 43195

DST#: 9

Test Start: 2011.05.30 @ 05:37:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:03:45

Time Test Ended: 12:20:00

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4525.00 ft (KB) To 4560.00 ft (KB) (TVD)

Reference Elevations: 2769.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

2762.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8652 Inside

Press@RunDepth: 18.05 psig @ 4526.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.30

End Date:

2011.05.30

Last Calib.: 2011.05.30

Start Time: 05:37:05

End Time:

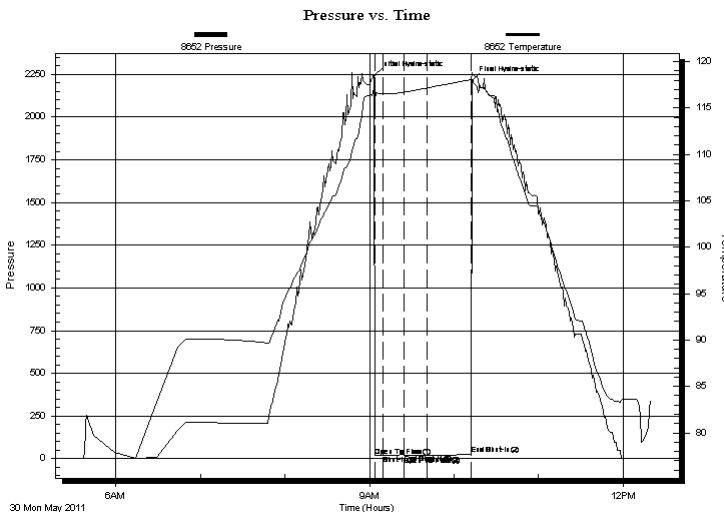
12:19:59

Time On Btm: 2011.05.30 @ 09:03:30

Time Off Btm: 2011.05.30 @ 10:13:00

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: No blow ..
FS: No return blow .

PRESSURE SUMMARY



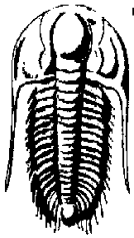
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.31	117.29	Initial Hydro-static
1	16.85	115.84	Open To Flow (1)
7	18.16	116.54	Shut-In(1)
21	23.65	116.71	End Shut-In(1)
21	16.94	116.71	Open To Flow (2)
37	18.05	117.16	Shut-In(2)
69	25.60	118.06	End Shut-In(2)
70	2212.56	118.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud (oil spots)	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43195

DST#: 9

ATTN: Bob Lew ellyn

Test Start: 2011.05.30 @ 05:37:00

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud (oil spots)	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

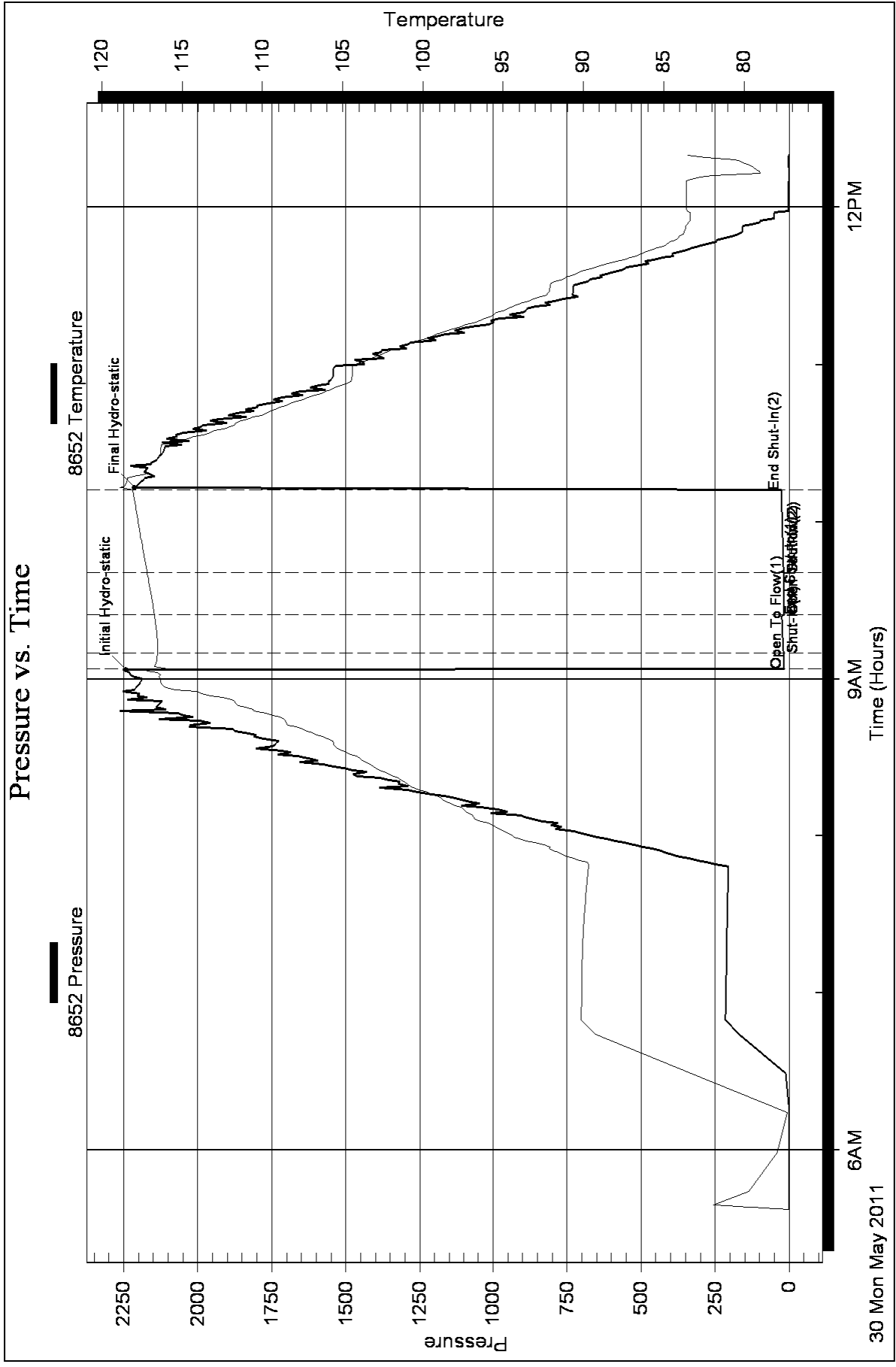
Num Gas Bombs: 0

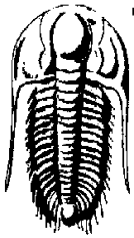
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering, Inc

562 West State Road 4
Olmitz, Ks 67564

ATTN: Bob Lew ellyn

JoAnn Unit #1-32

32 17s 28w Lane Ks

Job Ticket: 43196

DST#: 10

Test Start: 2011.05.31 @ 01:18:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:01:45

Time Test Ended: 06:58:15

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4557.00 ft (KB) To 4580.00 ft (KB) (TVD)

Reference Elevations: 2769.00 ft (KB)

Total Depth: 4580.00 ft (KB) (TVD)

2762.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8652 Inside

Press@RunDepth: 17.99 psig @ 4558.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.31

End Date:

2011.05.31

Last Calib.: 2011.05.31

Start Time: 01:18:05

End Time:

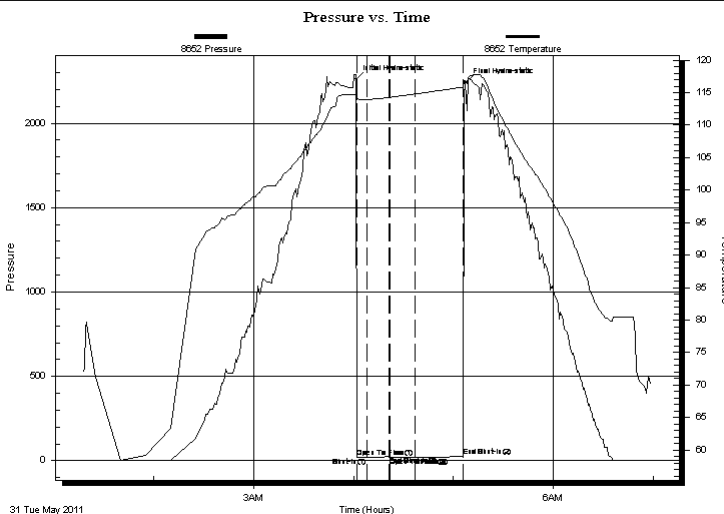
06:58:14

Time On Btm: 2011.05.31 @ 04:01:30

Time Off Btm: 2011.05.31 @ 05:07:15

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: No blow .
FS: No return blow .

PRESSURE SUMMARY



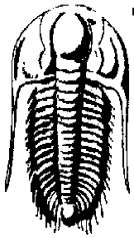
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.05	114.61	Initial Hydro-static
1	18.79	113.86	Open To Flow (1)
7	19.14	113.95	Shut-In(1)
20	23.02	114.27	End Shut-In(1)
21	17.76	114.28	Open To Flow (2)
36	17.99	114.79	Shut-In(2)
65	25.68	115.85	End Shut-In(2)
66	2243.74	116.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100m (oil spots in tool)	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43196

DST#: 10

ATTN: Bob Lew ellyn

Test Start: 2011.05.31 @ 01:18:00

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100m (oil spots in tool)	0.009

Total Length: 2.00 ft

Total Volume: 0.009 bbl

Num Fluid Samples: 0

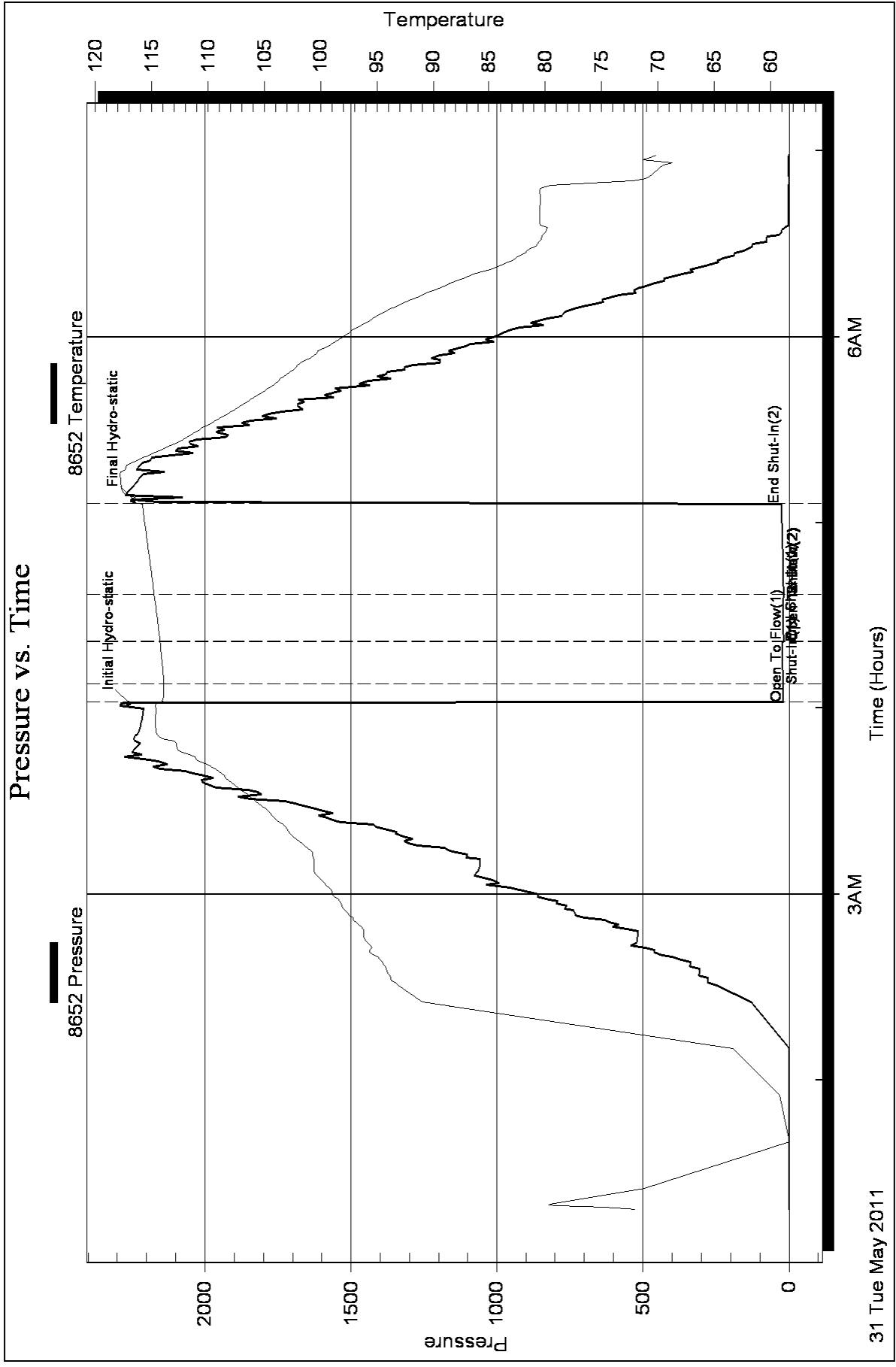
Num Gas Bombs: 0

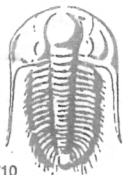
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JUN 03 2011
BY: _____

Test Ticket

NO. 4318715825

Well Name & No. JoAnn Unit # 1-32 Test No. 1 Date May 23/11
Company Larson Engineering, Inc Elevation 2764 KB 2762 GL
Address 562 West State Rd 4 Olmitz, Ks 67564
Co. Rep / Geo. Bob Lewellyn Rig HD #3
Location: Sec. 32 Twp. 17s Rge. 28w Co. Lane State Ks

Interval Tested 4148 4177 Zone Tested Lansing H
Anchor Length 29 Drill Pipe Run 4025 Mud Wt. 9.2
Top Packer Depth 4143 Drill Collars Run 115 Vis 52
Bottom Packer Depth 4148 Wt. Pipe Run 0 WL 7.6
Total Depth 4177 Chlorides 2,000 ppm System LCM 1#

Blow Description IF! Surface blow
ISI! No return blow
FF! No blow
FSI! No return blow

Rec	<u>3</u>	Feet of	<u>Mud (OIL spots)</u>	%gas	%oil	%water	<u>100</u>	%mud
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 3 BHT 117 Gravity — API RW — @ — ° F Chlorides — ppm
(A) Initial Hydrostatic 2046 ☒ Test 1225 T-On Location 2130
(B) First Initial Flow 15 ☒ Jars 250 T-Started 2242
(C) First Final Flow 18 ☒ Safety Joint 75 T-Open 0151
(D) Initial Shut-In 37 ☒ Circ Sub N/C T-Pulled 0318
(E) Second Initial Flow 17 ☐ Hourly Standby — T-Out 0557
(F) Second Final Flow 18 ☒ Mileage 58 R/T 8120 Comments —
(G) Final Shut-In 64 ☐ Sampler —
(H) Final Hydrostatic 1985 ☐ Straddle — ☐ Ruined Shale Packer —
☐ Shale Packer — ☐ Ruined Packer —
☐ Extra Packer — ☐ Extra Copies —
☐ Extra Recorder — Sub Total 0
☐ Day Standby — Total 11031.20
☐ Accessibility — MP/DST Disc? —

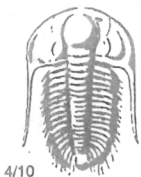
Initial Open 5
Initial Shut-In 15
Final Flow 35
Final Shut-In 30

Sub Total 11031.20

Approved By [Signature]

Our Representative [Signature]

TriLOBITE Testing Inc. Shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JUN 03 2011

Test Ticket

NO. 43188

Well Name & No. JoAnn Unit #1-32 Test No. 2 Date 5/24/11
 Company Larson Engineering, Inc. Elevation 2769 KB 2762 GL
 Address 562 West State Road 4 Olmitz, KS 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD#3
 Location: Sec. 32 Twp. 17S Rge. 28W Co. Lane State KS

Interval Tested 4180-4210 Zone Tested Lansing I
 Anchor Length 30 Drill Pipe Run 4055 Mud Wt. 9.1
 Top Packer Depth 4175 Drill Collars Run 115 Vis 49
 Bottom Packer Depth 4180 Wt. Pipe Run 0 WL 7.2
 Total Depth 4210 Chlorides 1,700 ppm System LCM 1#

Blow Description IF: Surface blow.
ISI: No return blow.
FF: No blow.
FSI: No return blow.

Rec	Feet of	MUD (OIL SPOTS)	%gas	%oil	%water	%mud
<u>5</u>					<u>100</u>	
Rec	Feet of		%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud

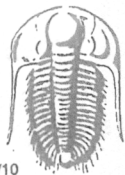
Rec Total 5 BHT 110 Gravity — API RW — @ —° F Chlorides — ppm
 (A) Initial Hydrostatic 2036 ☒ Test 1225' T-On Location 1430
 (B) First Initial Flow 17 ☒ Jars 250' T-Started 1508
 (C) First Final Flow 26 ☒ Safety Joint 75' T-Open 1730
 (D) Initial Shut-In 47 ☒ Circ Sub N/C T-Pulled 1835
 (E) Second Initial Flow 18 ☐ Hourly Standby — T-Out 2034
 (F) Second Final Flow 46 19 ☒ Mileage 58 R/T 81.20 Comments —
 (G) Final Shut-In 46 ☐ Sampler —
 (H) Final Hydrostatic 1988 ☐ Straddle —
☐ Shale Packer — ☐ Ruined Shale Packer —
☐ Extra Packer — ☐ Ruined Packer —
☐ Extra Recorder — ☐ Extra Copies —

Initial Open 5
 Initial Shut-In 15
 Final Flow 15
 Final Shut-In 30
 Sub Total 1631.20
 MP/DST Disc't —

Approved By [Signature]

Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43189

Well Name & No. JoAnn Unit #1-32 Test No. 3 Date 5/25/11
Company Larson Engineering, Inc Elevation 2769 KB 2762 GL
Address 562 West State Road 4 Olmitz, KS 67564
Co. Rep / Geo. Bob Lewellyn Rig HD #3
Location: Sec. 32 Twp. 17s Rge. 28 w Co. Lanc State Ks

Interval Tested 4210 - 4244 Zone Tested Lansing J
Anchor Length 32 Drill Pipe Run 4084 Mud Wt. 9.2
Top Packer Depth 4205 Drill Collars Run 115 Vis 53
Bottom Packer Depth 4210 Wt. Pipe Run 0 WL 7.2
Total Depth 4244 Chlorides 1700 ppm System LCM 2 #

Blow Description IF: 5 inches blow
ISI: No return blow
FF: BOB @ 15 minutes
FSI: No return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OIL</u>	<u>100</u>			
<u>295</u>	<u>MCW</u>			<u>90</u>	<u>10</u>

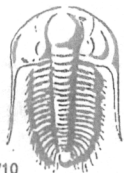
Rec Total 300 BHT 125 Gravity 38 API RW 117 @ 65 °F Chlorides 71,000 ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>2054</u>	<u>34</u>	<u>74</u>	<u>801</u>	<u>83</u>	<u>154</u>	<u>759</u>	<u>2044</u>

Initial Open	Initial Shut-In	Final Flow	Final Shut-In
<u>5</u>	<u>15</u>	<u>30</u>	<u>60</u>

Sub Total	MP/DST, Disc't
<u>1631.20</u>	

Approved By [Signature] Our Representative [Signature]
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

JUN 03 2011

Test Ticket

NO. 43190

Well Name & No. JoAnn Unit #1-32 Test No. 4 Date 5/26/11
 Company Larson Engineering, Inc. Elevation 2769 KB 2762 GL
 Address 562 West State Road 4 Olmitz, Ks 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD #3
 Location: Sec. 32 Twp. 17S Rge. 28W Co. Lane State Ks

Interval Tested 4242 4269 Zone Tested Lansing K
 Anchor Length 27 Drill Pipe Run 4116 Mud Wt. 9.1
 Top Packer Depth 4238 Drill Collars Run 115 Vis 59
 Bottom Packer Depth 4242 Wt. Pipe Run 8 WL 7.6
 Total Depth 4269 Chlorides 8,600 ppm System LCM 1#

Blow Description IF: Surface blow.
ISJ: No return blow.
FF: Surface blow died @ 5 minutes
FSI: No return blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>MUD (OIL SPOTS IN TOOL)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT Gravity — API RW — @ — °F Chlorides — ppm

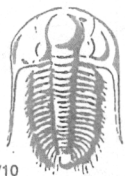
(A) Initial Hydrostatic	<u>2075</u>	☒ Test	<u>1225</u>	T-On Location	<u>2230 3/25</u>
(B) First Initial Flow	<u>18</u>	☒ Jars	<u>200</u>	T-Started	<u>2307 3/25</u>
(C) First Final Flow	<u>21</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>0128</u>
(D) Initial Shut-In	<u>683</u>	☒ Circ Sub	<u>N/C</u>	T-Pulled	<u>0233</u>
(E) Second Initial Flow	<u>20</u>	☐ Hourly Standby		T-Out	<u>0445</u>
(F) Second Final Flow	<u>21</u>	☒ Mileage	<u>58 RT 81.20</u>	Comments	
(G) Final Shut-In	<u>698</u>	☐ Sampler			
(H) Final Hydrostatic	<u>2012</u>	☐ Straddle		☐ Ruined Shale Packer	

Initial Open	<u>5</u>	☐ Shale Packer		☐ Ruined Packer	
Initial Shut-In	<u>15</u>	☐ Extra Packer		☐ Extra Copies	
Final Flow	<u>15</u>	☐ Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>30</u>	☐ Day Standby		Total	<u>1631.20</u>
		☐ Accessibility		MP/DST Disc't	
		Sub Total	<u>1631.20</u>		

Approved By [Signature]

Our Representative [Signature]

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**TRILOBITE
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RECEIVED
JUN 03 2011
BY: _____

Test Ticket

NO. 43191

Well Name & No. JoAnn Unit # 1-32 Test No. 5 Date 5/26/11
Company Larson Engineering, Inc Elevation 2769 KB 2762 GL
Address 562 West State Road 4 Olmitz, Ks 67564
Co. Rep / Geo. Bob Lewellyn Rig HD #3
Location: Sec. 32 Twp. 17S Rge. 28 W Co. Lane State Ks

Interval Tested 4276 4301 Zone Tested Lansing L
Anchor Length 25 Drill Pipe Run 4150 Mud Wt. 9.3
Top Packer Depth 4271 Drill Collars Run 115 Vis 52
Bottom Packer Depth 4276 Wt. Pipe Run 0 WL 6.4
Total Depth 4301 Chlorides 3,000 ppm System LCM 1#
Blow Description IF: Surface blow.
ISI: No return blow.
FF: No blow.
FSI: No return blow.

Rec <u>X 1</u>	Feet of <u>MUD (oil spots)</u>	%gas	%oil	%water <u>100</u>	%mud
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 1 BHT 111 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2093
(B) First Initial Flow 18
(C) First Final Flow 24 18
(D) Initial Shut-In 17 29
(E) Second Initial Flow 19 17
(F) Second Final Flow 18
(G) Final Shut-In 44
(H) Final Hydrostatic 2076

☒ Test 1225
☒ Jars 250
☒ Safety Joint 75
☒ Circ Sub N/C

☐ Hourly Standby

☒ Mileage 58 RT 81.20

☐ Sampler

☐ Straddle

☐ Shale Packer

☐ Extra Packer

☐ Extra Recorder

☐ Day Standby

☐ Accessibility

Sub Total 1631.20

T-On Location 1430

T-Started 1509

T-Open 1701

T-Pulled 1821

T-Out 2002

Comments

☐ Ruined Shale Packer

☐ Ruined Packer

☐ Extra Copies

Sub Total 0

Total 1631.20

MP/DST Disc't

Initial Open 5
Initial Shut-In 15
Final Flow 30
Final Shut-In 30

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Test Ticket

NO. 43192

RECEIVED
JUN 03 2011

Well Name & No. JoAnn Unit #1-32 Test No. 6 Date 5/27/11
 Company Larson Engineering, Inc Elevation 2769 KB 2762 GL
 Address 562 West State Road 4 Olmitz, KS 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD #3
 Location: Sec. 32 Twp. 17s Rge. 28w Co. Lane State Ks

Interval Tested 4278 - 4311 Zone Tested Lansing L (lower)
 Anchor Length 33 Drill Pipe Run 4148 Mud Wt. 9.3
 Top Packer Depth 4273 Drill Collars Run 115 Vis 52
 Bottom Packer Depth 4278 Wt. Pipe Run 0 WL 6.4
 Total Depth 4311 Chlorides 3,000 ppm System LCM 1 #

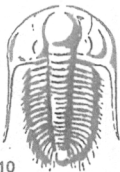
Blow Description IF! Surface blow.
ISI! No return blow.
FF! No blow
FSI! No return blow.

Rec <u>2</u>	Feet of <u>Mud (oil spots)</u>	%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	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2109 ☒ Test 1225 T-On Location 0200
 (B) First Initial Flow 19 ☒ Jars 250 T-Started 0249
 (C) First Final Flow 19 ☒ Safety Joint 75 T-Open 0510
 (D) Initial Shut-In 28 ☒ Circ Sub N/c T-Pulled 0615
 (E) Second Initial Flow 17 ☐ Hourly Standby — T-Out 0847
 (F) Second Final Flow 19 ☒ Mileage 58 R/r 81.20 Comments —
 (G) Final Shut-In 30 ☐ Sampler —
 (H) Final Hydrostatic 2063 ☐ Straddle — ☐ Ruined Shale Packer —
☐ Shale Packer — ☐ Ruined Packer —
☐ Extra Packer — ☐ Extra Copies —
☐ Extra Recorder — Sub Total 0
☐ Day Standby — Total 11031.20
☐ Accessibility — MP/DST Disc't —

Initial Open 5
 Initial Shut-In 15
 Final Flow 15
 Final Shut-In 30
 Sub Total 11031.20

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43193

JUN 03 2011

BY:

Well Name & No. JoAnn Unit #1-32 Test No. 7 Date 5/28/11
 Company Larson Engineering, Inc Elevation 2769 KB 2762 GL
 Address 562 West State Road 4 Olmitz, Ks 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD#3
 Location: Sec. 32 Twp. 17S Rge. 28W Co. Lane State Ks

Interval Tested 4316 - 4410 Zone Tested Marmaton-Altamont
 Anchor Length 94 Drill Pipe Run 4176 Mud Wt. 9.2
 Top Packer Depth 4311 Drill Collars Run 115 Vis 53
 Bottom Packer Depth 4316 Wt. Pipe Run 0 WL 8.0
 Total Depth 4410 Chlorides 2000 ppm System LCM 2⁺

Blow Description IF! 4 inches blow.
ISI! No return blow.
FF! BOB@ 15 minutes
FSI! Surface blow, died @ 15 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Oil</u>	<u>100</u>			
<u>150</u>	<u>OCM</u>	<u>50</u>		<u>50</u>	
	<u>70 FT GIP</u>				

Rec Total 170 BHT 118 Gravity 33 API RW - @ - ° F Chlorides - ppm

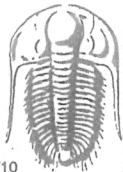
(A) Initial Hydrostatic <u>2201</u>	☒ Test <u>1225</u>	T-On Location <u>0145</u>
(B) First Initial Flow <u>62</u>	☒ Jars <u>250</u>	T-Started <u>0213</u>
(C) First Final Flow <u>86</u>	☒ Safety Joint <u>75</u>	T-Open <u>0420</u>
(D) Initial Shut-In <u>917</u>	☒ Circ Sub <u>N/C</u>	T-Pulled <u>0610</u>
(E) Second Initial Flow <u>95</u>	☐ Hourly Standby	T-Out <u>0908</u>
(F) Second Final Flow <u>113</u>	☒ Mileage <u>58 RT 81.20</u>	Comments
(G) Final Shut-In <u>883</u>	☐ Sampler	
(H) Final Hydrostatic <u>2068</u>	☐ Straddle	

Initial Open <u>5</u>	☒ Shale Packer <u>250</u>	☐ Ruined Shale Packer
Initial Shut-In <u>15</u>	☐ Extra Packer	☐ Ruined Packer
Final Flow <u>30</u>	☐ Extra Recorder	☐ Extra Copies
Final Shut-In <u>60</u>	☐ Day Standby	Sub Total <u>0</u>
	☐ Accessibility	Total <u>1881.20</u>
	Sub Total <u>1881.20</u>	MP/DST Disc't

Approved By

Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43194

RECEIVED
JUN 03 2011

Well Name & No. JoAnn Unit # 1-32 Test No. 8 Date 5/29/11
 Company Larson Engineering Elevation 2769 KB 2762 GL
 Address 562 West State Road 4 Olmitz, Ks 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD #3
 Location: Sec. 32 Twp. 17S Rge. 28E Co. Lane State Ks

Interval Tested 4413 4520 Zone Tested Rawnee - Ft Scott
 Anchor Length 107 Drill Pipe Run 4403 4298 Mud Wt. 9.4
 Top Packer Depth 4408 Drill Collars Run 115 Vis 56
 Bottom Packer Depth 4413 Wt. Pipe Run 0 WL 6.8
 Total Depth 4520 Chlorides 2,000 ppm System LCM 2#

Blow Description IF: 4 inches blow.
ISI: No return blow
FF: BOB @ 7 minutes
FSI: Built to 4 inch blow, died @ 40 minutes.

Rec	Feet of	%gas	%oil	%water	%mud
<u>165</u>	<u>60CM</u>	<u>45</u>	<u>20</u>	<u>35</u>	<u>0</u>
<u>60</u>	<u>0CM</u>	<u>10</u>	<u>90</u>	<u>0</u>	<u>0</u>
	<u>495 FT GIP</u>				

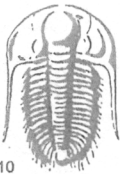
Rec Total 225 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>2298</u>	<u>60</u>	<u>112</u>	<u>1225</u>	<u>110</u>	<u>148</u>	<u>1191</u>	<u>2246</u>

Initial Open	Initial Shut-In	Final Flow	Final Shut-In
<u>5</u>	<u>15</u>	<u>30</u>	<u>60</u>

Sub Total 1881.20

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43195

JUN 03 2011

Well Name & No. Jo Ann Unit # 1-32 Test No. 9 Date 5/30/11
 Company Larson Engineering, Inc Elevation 2769 KB 2762 GL
 Address 562 West State Road 4 Olmitz, KS 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD # 3
 Location: Sec. 31 Twp. 17s Rge. 28w Co. Lane State Ks

Interval Tested 4525 - 4560 Zone Tested Johnson
 Anchor Length 35 Drill Pipe Run 4391 Mud Wt. 9.3
 Top Packer Depth 4520 Drill Collars Run 115 Vis 56
 Bottom Packer Depth 4525 Wt. Pipe Run 8 WL 8.8
 Total Depth 4560 Chlorides 2500 ppm System LCM 2#

Blow Description IF: Surface blow.
ISI: No return blow.
FF: No blow.
FSI: No return blow.

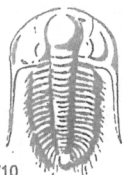
Rec	Feet of	%gas	%oil	%water	%mud
1	Mud (OJH SPTS)			100	
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 1 BHT 118 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2242</u>	☒ Test	<u>1225</u>	T-On Location	<u>0300</u>
(B) First Initial Flow	<u>17</u>	☒ Jars	<u>250</u>	T-Started	<u>0537</u>
(C) First Final Flow	<u>18</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>0904-0904</u>
(D) Initial Shut-In	<u>24</u>	☒ Circ Sub	<u>N/C</u>	T-Pulled	<u>1009</u>
(E) Second Initial Flow	<u>17</u>	☐ Hourly Standby	<u>1/4 hr 25</u>	T-Out	<u>1220</u>
(F) Second Final Flow	<u>18</u>	☒ Mileage	<u>58 R/T 81.20</u>	Comments	
(G) Final Shut-In	<u>26</u>	☐ Sampler			
(H) Final Hydrostatic	<u>2213</u>	☐ Straddle			

Initial Open	<u>5</u>	☒ Shale Packer	<u>250</u>	☐ Ruined Shale Packer	
Initial Shut-In	<u>15</u>	☐ Extra Packer		☐ Ruined Packer	
Final Flow	<u>15</u>	☐ Extra Recorder		☐ Extra Copies	
Final Shut-In	<u>30</u>	☐ Day Standby		Sub Total	<u>8</u>
		☐ Accessibility		Total	<u>1906.20</u>
		Sub Total	<u>1906.20</u>	MP/DST Disc't	

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**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43196

JUN 03 2011

Well Name & No. ToAnn Unit # 1-32 Test No. 10 Date 5/31/11
Company Larson Engineering, Inc Elevation 2769 KB 2762 GL
Address 562 West State Road #4
Co. Rep / Geo. Bob Lewellyn Rig HD #3
Location: Sec. 32 Twp. 17S Rge. 28W Co. Lane State Ks

Interval Tested 4539-4580 Zone Tested Johnson Cherokee Sand
Anchor Length 35 23 Drill Pipe Run 4362 Mud Wt. 9.2
Top Packer Depth 4535 4552 Drill Collars Run 169 Vis 50
Bottom Packer Depth 4557 Wt. Pipe Run 0 WL 8.4
Total Depth 4580 Chlorides 2300 ppm System LCM 2#

Blow Description IF! Surface blow
ISI! No return blow,
FF! No blow.
FSI! No return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>MUD (OIL SPOTS IN TOOL)</u>			<u>100</u>	

Rec Total 2 BHT 116 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>2260</u>	<u>19</u>	<u>19</u>	<u>23</u>	<u>18</u>	<u>18</u>	<u>26</u>	<u>2243</u>

Initial Open	Initial Shut-In	Final Flow	Final Shut-In
<u>5</u>	<u>15</u>	<u>15</u>	<u>30</u>

Test	Jars	Safety Joint	Circ Sub	Hourly Standby	Mileage	Sampler	Straddle	Shale Packer	Extra Packer	Extra Recorder	Day Standby	Accessibility
☒	☒	☒	☒	☐	☒	☐	☐	☒	☐	☐	☐	☐

Sub Total 1881.20

T-On Location 0005
T-Started 0218
T-Open 0401
T-Pulled 0506
T-Out 0658

Comments —

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies

Sub Total 0
Total 1881.20

MP/DST Disc't —

Approved By [Signature]

Our Representative [Signature]

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