

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering Inc

York #1-12

562 State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lewellyn

12-16-31

Job Ticket: 43261

DST#: 1

Test Start: 2011.07.05 @ 14:50:54

GENERAL INFORMATION:

Formation: **B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:50:54

Time Test Ended: 19:35:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 3910.00 ft (KB) To 3935.00 ft (KB) (TVD)

Reference Elevations: 2824.00 ft (KB)

Total Depth: 3935.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6771 Outside

Press@RunDepth: 18.99 psig @ 3911.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.05

End Date:

2011.07.05

Last Calib.: 2011.07.05

Start Time: 14:50:54

End Time:

19:22:09

Time On Btm: 2011.07.05 @ 16:50:39

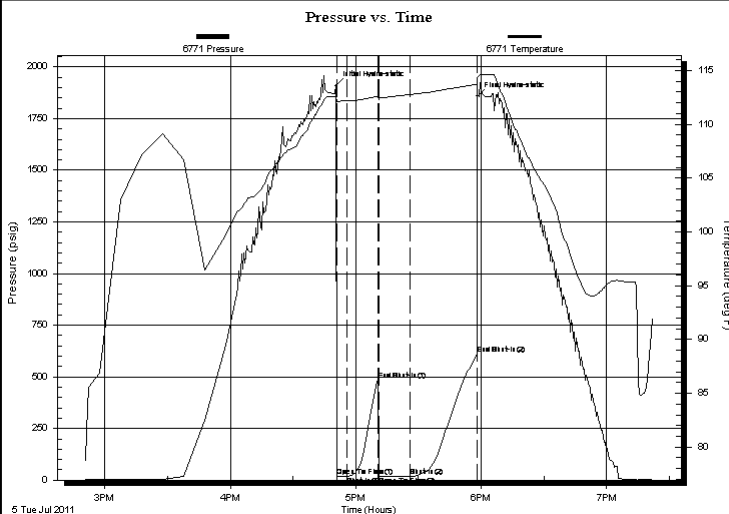
Time Off Btm: 2011.07.05 @ 17:58:09

TEST COMMENT: Weak blow died in 4 min.

No return

No blow

No return



PRESSURE SUMMARY

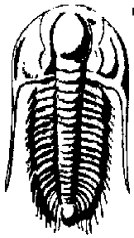
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.29	112.66	Initial Hydro-static
1	17.73	112.09	Open To Flow (1)
6	18.16	112.17	Shut-In(1)
20	485.33	112.60	End Shut-In(1)
21	18.35	112.46	Open To Flow (2)
36	18.99	112.77	Shut-In(2)
68	608.29	113.72	End Shut-In(2)
68	1856.72	114.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% m	0.00

Gas Rates

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

Larson Engineering Inc

York #1-12

562 State Rd 4

12-16-31

Olmitz, Ks

Job Ticket: 43261

DST#: 1

67564

Test Start: 2011.07.05 @ 14:50:54

ATTN: Bob Lew ellyn

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

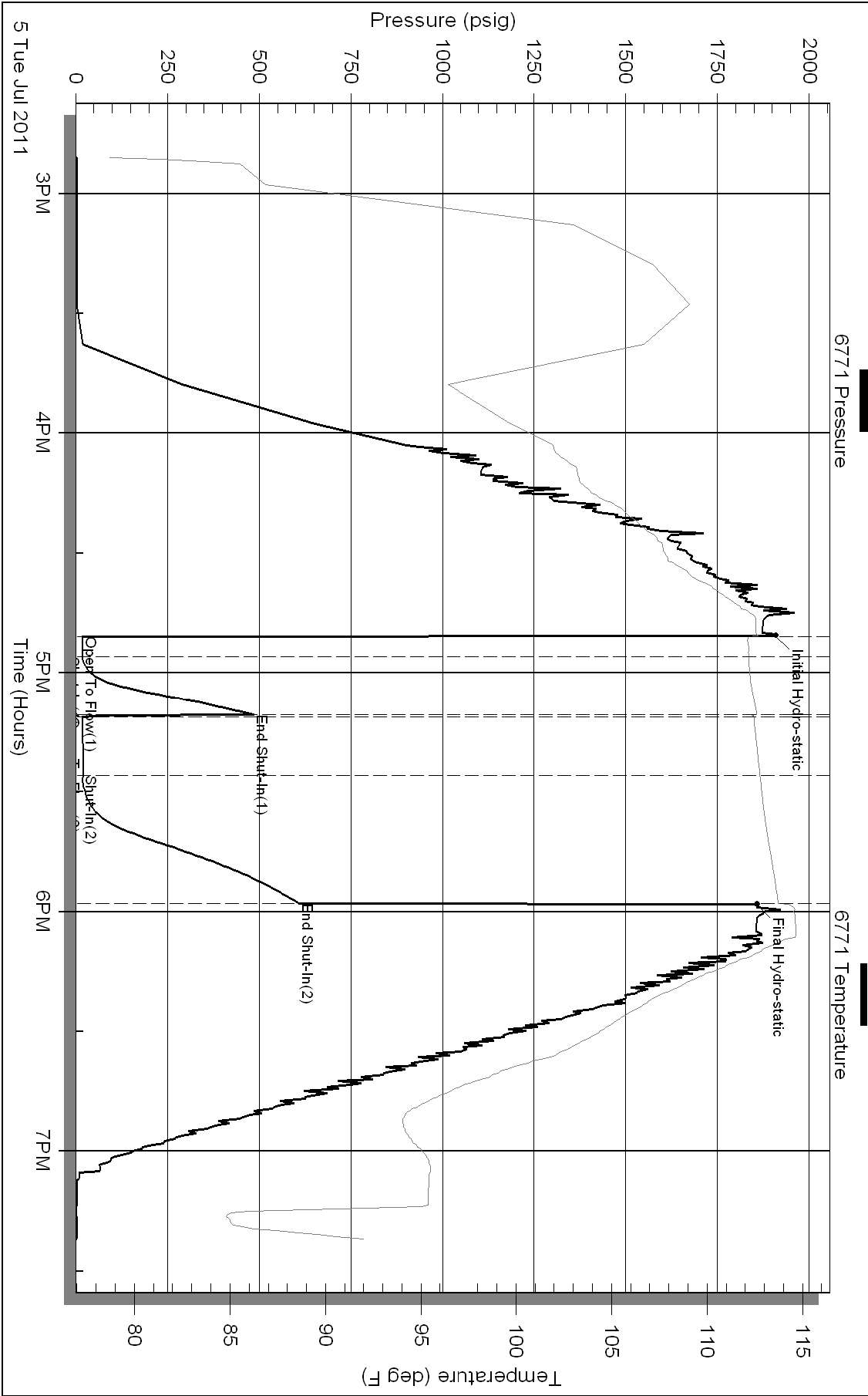
Serial #:

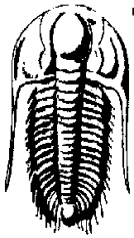
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering Inc

562 State Rd 4
Olmitz, Ks
67564

ATTN: Bob Lewellyn

York #1-12

12-16-31 Scott, Ks

Job Ticket: 43262

DST#: 2

Test Start: 2011.07.06 @ 12:20:28

GENERAL INFORMATION:

Formation: **H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:08:58

Time Test Ended: 17:15:28

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 55

Interval: 4060.00 ft (KB) To 4090.00 ft (KB) (TVD)

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4090.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6667 Inside

Press@RunDepth: 19.50 psig @ 4061.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.06

End Date:

2011.07.06

Last Calib.: 2011.07.06

Start Time: 12:20:28

End Time:

16:54:28

Time On Btm: 2011.07.06 @ 14:08:43

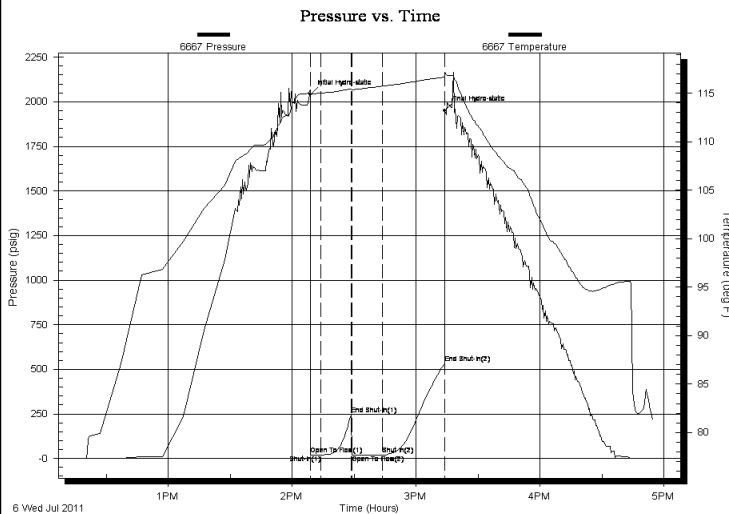
Time Off Btm: 2011.07.06 @ 15:13:58

TEST COMMENT: Weak blow died in 2 min

No return

No blow

No return



PRESSURE SUMMARY

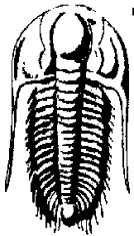
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.63	115.32	Initial Hydro-static
1	18.53	114.87	Open To Flow(1)
5	18.93	115.02	Shut-In(1)
20	242.32	115.47	End Shut-In(1)
21	18.92	115.37	Open To Flow(2)
35	19.50	115.74	Shut-In(2)
65	529.95	116.67	End Shut-In(2)
66	1949.81	117.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
1.00	mud 100% m	0.00

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate(Mcf/d)
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DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

York #1-12

562 State Rd 4
Olmitz, Ks
67564

12-16-31 Scott, Ks

Job Ticket: 43262

DST#: 2

ATTN: Bob Lewellyn

Test Start: 2011.07.06 @ 12:20:28

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 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 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:

Serial #: 6667

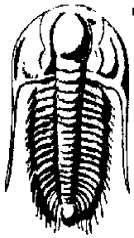
Inside

Larson Engineering Inc

12-16-31 Scott, Ks

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering Inc

York #1-12

562 State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lewellyn

12-16-31 Scott, Ks

Job Ticket: 43263

DST#: 3

Test Start: 2011.07.07 @ 03:10:54

GENERAL INFORMATION:

Formation: I

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:12:54

Time Test Ended: 09:00:09

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 55

Interval: 4096.00 ft (KB) To 4128.00 ft (KB) (TVD)

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4128.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6667 Inside

Press@RunDepth: 19.87 psig @ 4097.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.07

End Date:

2011.07.07

Last Calib.: 2011.07.07

Start Time: 03:10:54

End Time:

08:46:09

Time On Btm: 2011.07.07 @ 05:12:39

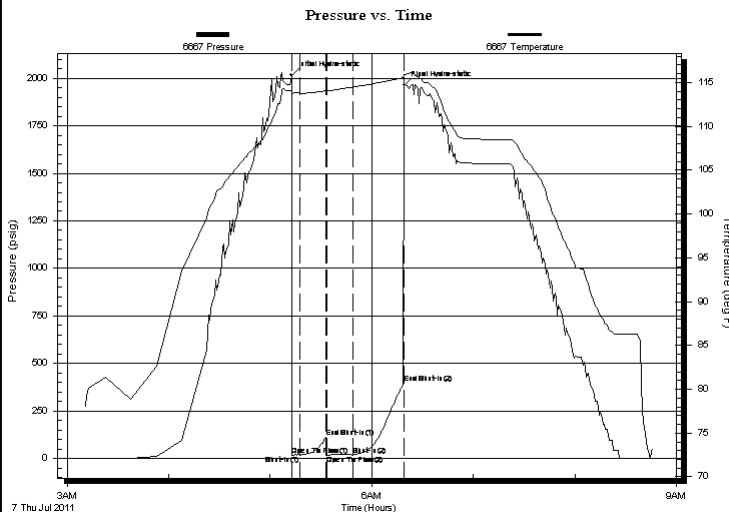
Time Off Btm: 2011.07.07 @ 06:19:09

TEST COMMENT: Weak blow died in 4 min.

No return

No blow

No return



PRESSURE SUMMARY

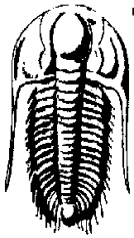
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2015.31	114.14	Initial Hydro-static
1	19.37	113.59	Open To Flow (1)
5	19.44	113.77	Shut-In(1)
20	111.79	114.06	End Shut-In(1)
21	18.89	114.02	Open To Flow (2)
37	19.87	114.48	Shut-In(2)
66	394.51	115.52	End Shut-In(2)
67	1963.72	115.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% m	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

York #1-12

562 State Rd 4

12-16-31 Scott, Ks

Olmitz, Ks

Job Ticket: 43263

DST#: 3

67564

Test Start: 2011.07.07 @ 03:10:54

ATTN: Bob Lew ellyn

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 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 100%m	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

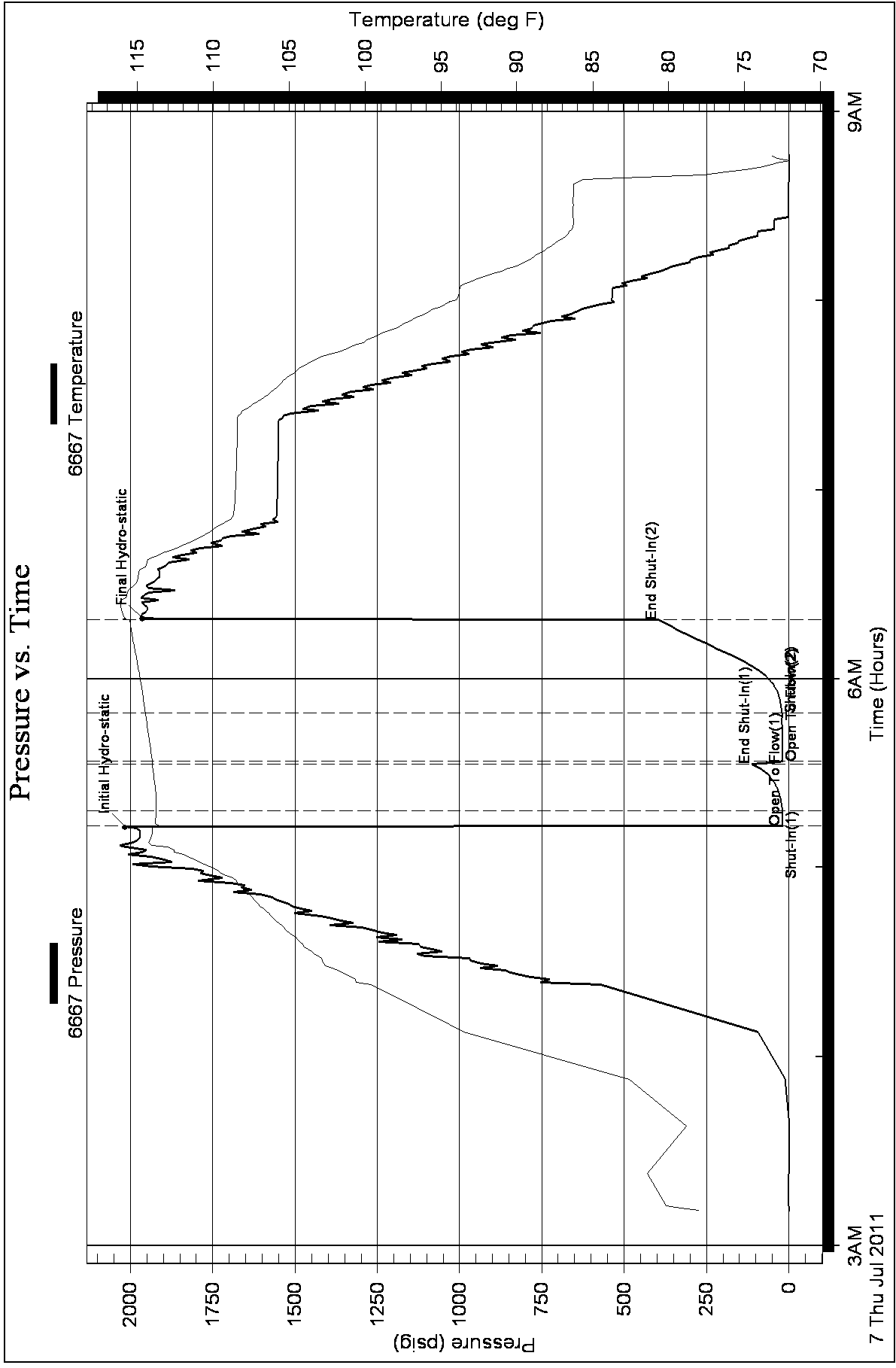
Num Gas Bombs: 0

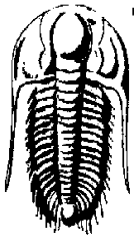
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Larson Engineering Inc

562 State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lew ellyn

York #1-12

12-16-31 Scott, Ks

Job Ticket: 43264

DST#: 4

Test Start: 2011.07.07 @ 19:35:41

GENERAL INFORMATION:

Formation: **K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:24:41

Time Test Ended: 00:58:26

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 55

Interval: 4150.00 ft (KB) To 4176.00 ft (KB) (TVD)

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4176.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6771 Outside

Press@RunDepth: 47.29 psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.07

End Date:

2011.07.08

Last Calib.:

2011.07.08

Start Time: 19:35:41

End Time:

00:35:26

Time On Btm:

2011.07.07 @ 21:24:26

Time Off Btm:

2011.07.07 @ 22:32:11

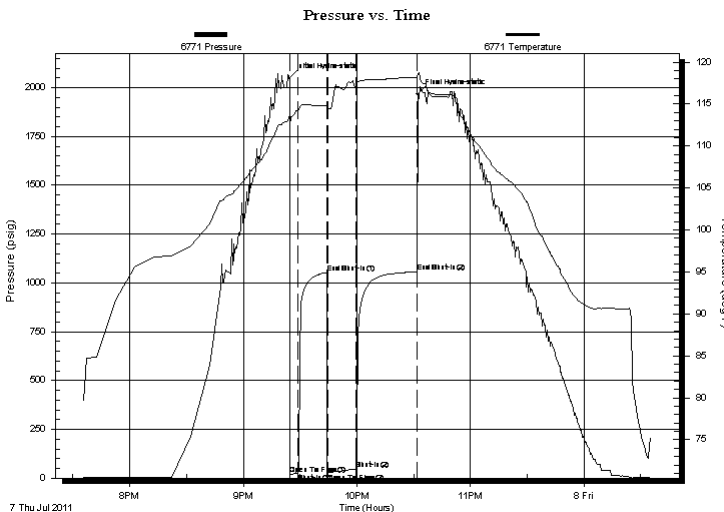
TEST COMMENT: Weak surface blow

No return

No blow

No return

PRESSURE SUMMARY



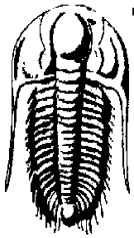
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.54	113.62	Initial Hydro-static
1	17.82	112.26	Open To Flow (1)
5	25.75	114.25	Shut-In(1)
20	1053.20	114.85	End Shut-In(1)
20	26.72	114.19	Open To Flow (2)
36	47.29	117.26	Shut-In(2)
68	1055.99	118.22	End Shut-In(2)
68	1969.27	118.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	heavy mud 100% m	0.17

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

York #1-12

562 State Rd 4

12-16-31 Scott, Ks

Olmitz, Ks

Job Ticket: 43264

DST#: 4

67564

Test Start: 2011.07.07 @ 19:35:41

ATTN: Bob Lew ellyn

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: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	heavy mud 100%m	0.172

Total Length: 35.00 ft

Total Volume: 0.172 bbl

Num Fluid Samples: 0

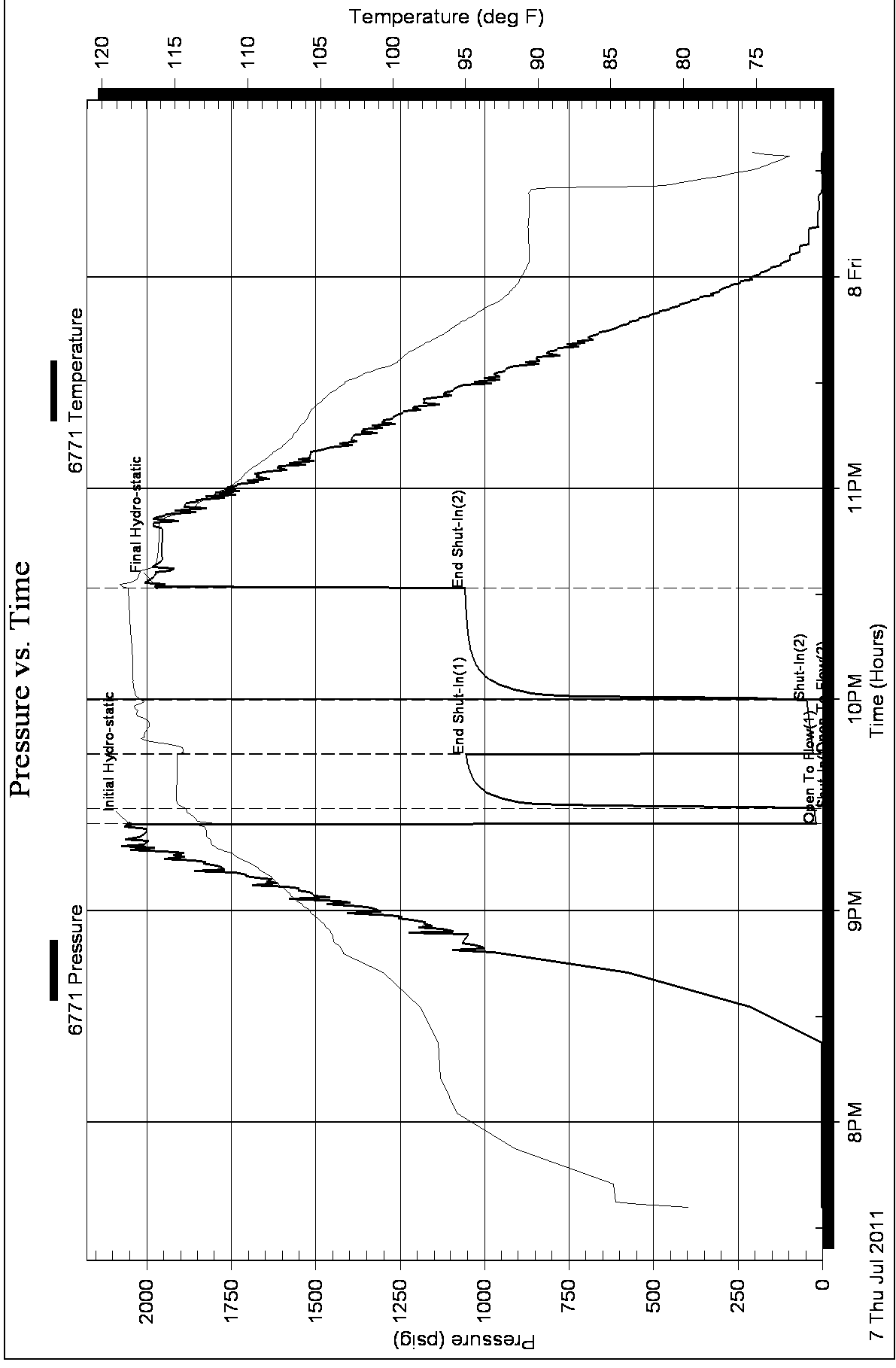
Num Gas Bombs: 0

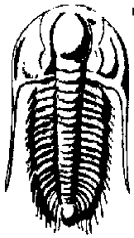
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering Inc

562 State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lewellyn

York #1-12

12-16-31 Scott, Ks

Job Ticket: 43264

DST#: 4

Test Start: 2011.07.07 @ 19:35:41

GENERAL INFORMATION:

Formation: **K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:24:41

Time Test Ended: 00:58:26

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 55

Interval: 4150.00 ft (KB) To 4176.00 ft (KB) (TVD)

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4176.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6771 Outside

Press@RunDepth: 47.29 psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.07

End Date:

2011.07.08

Last Calib.:

2011.07.08

Start Time: 19:35:41

End Time:

00:35:26

Time On Btm:

2011.07.07 @ 21:24:26

Time Off Btm:

2011.07.07 @ 22:32:11

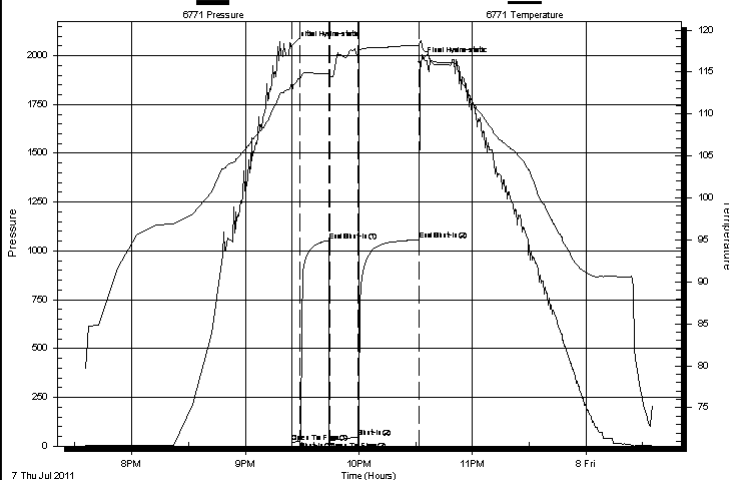
TEST COMMENT: Weak surface blow

No return

No blow

No return

Pressure vs. Time



PRESSURE SUMMARY

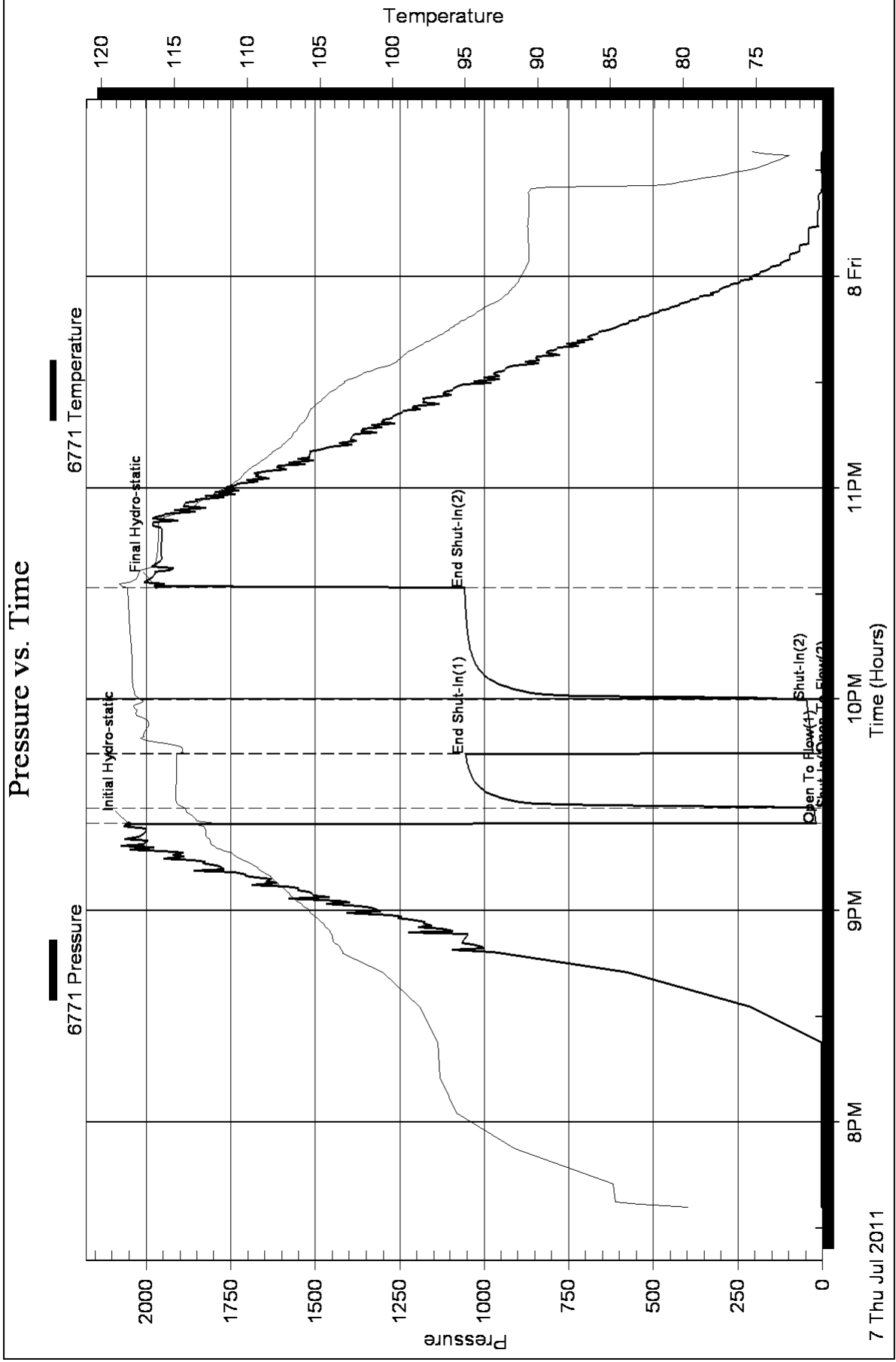
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.54	113.62	Initial Hydro-static
1	17.82	112.26	Open To Flow (1)
5	25.75	114.25	Shut-In(1)
20	1053.20	114.85	End Shut-In(1)
20	26.72	114.19	Open To Flow (2)
36	47.29	117.26	Shut-In(2)
68	1055.99	118.22	End Shut-In(2)
68	1969.27	118.62	Final Hydro-static

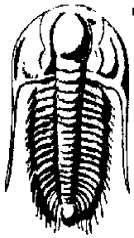
Recovery

Length (ft)	Description	Volume (bbl)
35.00	heavy mud 100% m	0.17

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

Larson Engineering Inc

York #1-12

562 State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lewellyn

12-16-31 Scott, Ks

Job Ticket: 43266

DST#: 6

Test Start: 2011.07.09 @ 15:55:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:20:30

Time Test Ended: 22:12:15

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 55

Interval: 4248.00 ft (KB) To 4345.00 ft (KB) (TVD)

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4345.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6667 Inside

Press@RunDepth: 74.02 psig @ 4346.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.09

End Date:

2011.07.09

Last Calib.:

2011.07.09

Start Time: 15:55:15

End Time:

22:12:15

Time On Btm:

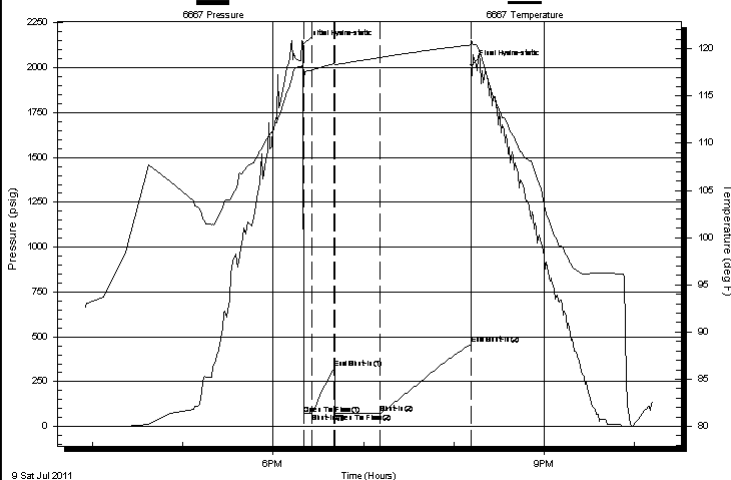
2011.07.09 @ 18:20:00

Time Off Btm:

2011.07.09 @ 20:12:00

TEST COMMENT: Built to 3" Blow
No Return Blow
Very Weak Surface Blow
No Return Blow

Pressure vs. Time



PRESSURE SUMMARY

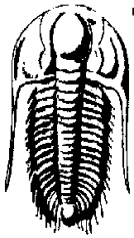
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.17	118.03	Initial Hydro-static
1	70.39	116.88	Open To Flow (1)
6	72.67	117.75	Shut-In(1)
21	325.42	118.42	End Shut-In(1)
21	72.08	118.32	Open To Flow (2)
51	74.02	119.09	Shut-In(2)
112	458.44	120.42	End Shut-In(2)
112	2015.90	120.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	m 100%M	0.32

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

York #1-12

562 State Rd 4

12-16-31 Scott, Ks

Olmitz, Ks

Job Ticket: 43266

DST#: 6

67564

Test Start: 2011.07.09 @ 15:55:00

ATTN: Bob Lew ellyn

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	m 100%M	0.320

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

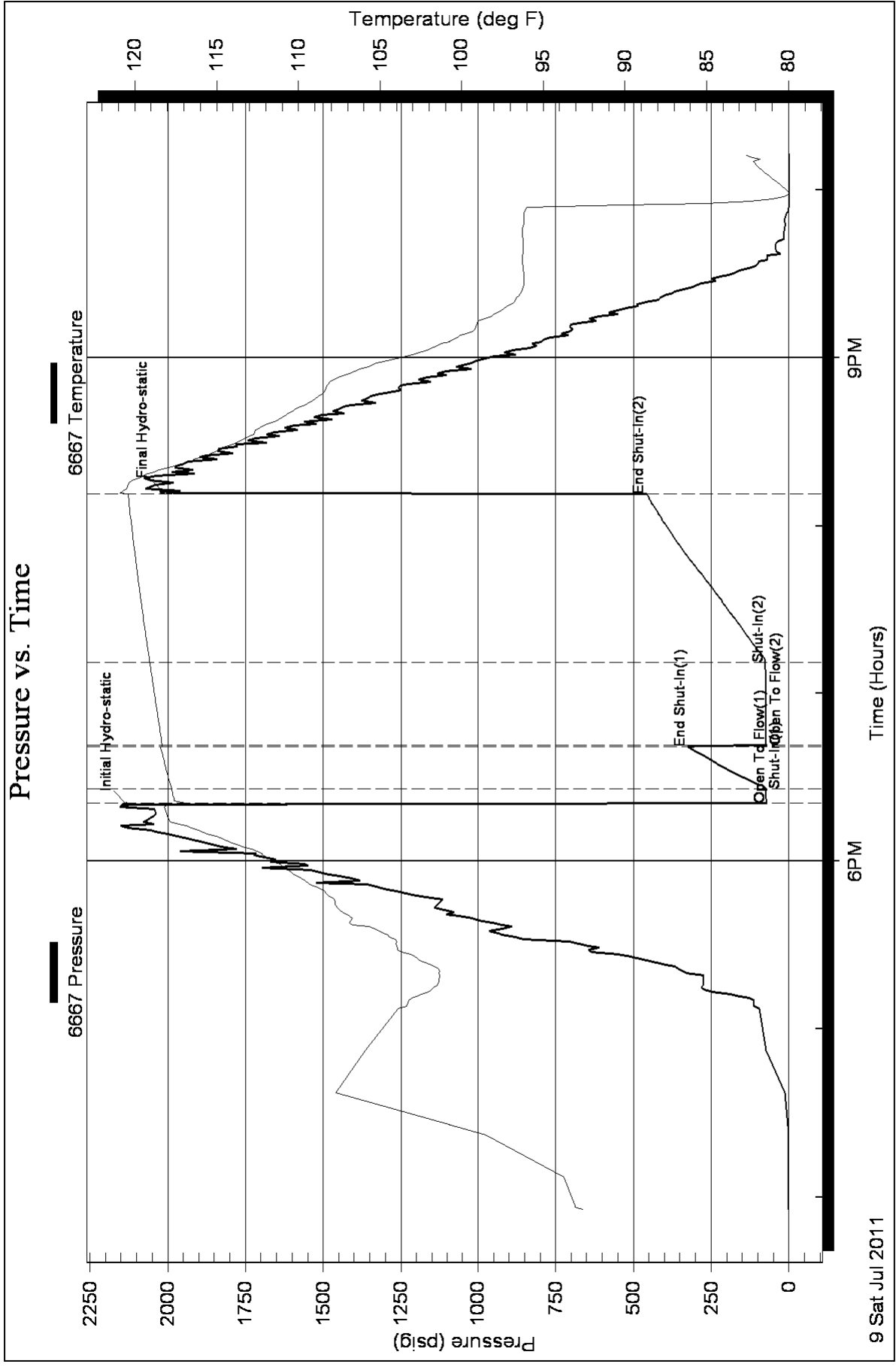
Num Gas Bombs: 0

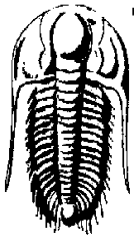
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering Inc

York #1-12

562 State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lewellyn

12-16-31 Scott, Ks

Job Ticket: 43267

DST#: 7

Test Start: 2011.07.10 @ 15:35:00

GENERAL INFORMATION:

Formation: **Pawnee - Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:41:30

Time Test Ended: 20:49:00

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 55

Interval: 4356.00 ft (KB) To 4457.00 ft (KB) (TVD)

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4457.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6667 Inside

Press@RunDepth: 28.25 psig @ 4357.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.10

End Date:

2011.07.10

Last Calib.: 2011.07.10

Start Time: 15:35:15

End Time:

20:49:00

Time On Btm: 2011.07.10 @ 17:41:00

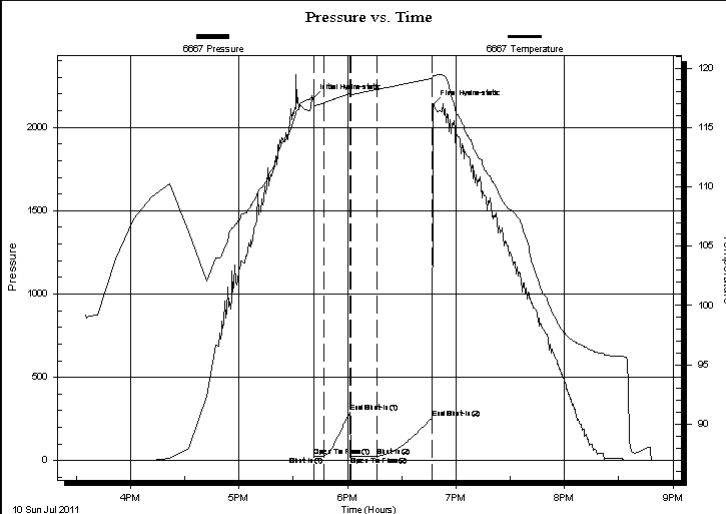
Time Off Btm: 2011.07.10 @ 18:47:30

TEST COMMENT: Weak Surface Blow

No Return Blow

No Blow

No Return Blow



PRESSURE SUMMARY

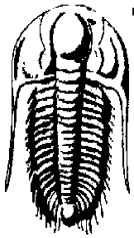
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.32	117.44	Initial Hydro-static
1	25.47	116.87	Open To Flow (1)
6	25.61	117.05	Shut-In(1)
21	290.11	117.85	End Shut-In(1)
21	26.36	117.72	Open To Flow (2)
36	28.25	118.19	Shut-In(2)
66	256.87	119.12	End Shut-In(2)
67	2135.94	119.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100% M	0.02

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

York #1-12

562 State Rd 4

12-16-31 Scott, Ks

Olmitz, Ks

Job Ticket: 43267

DST#: 7

67564

Test Start: 2011.07.10 @ 15:35:00

ATTN: Bob Lewellyn

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	m 100% M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

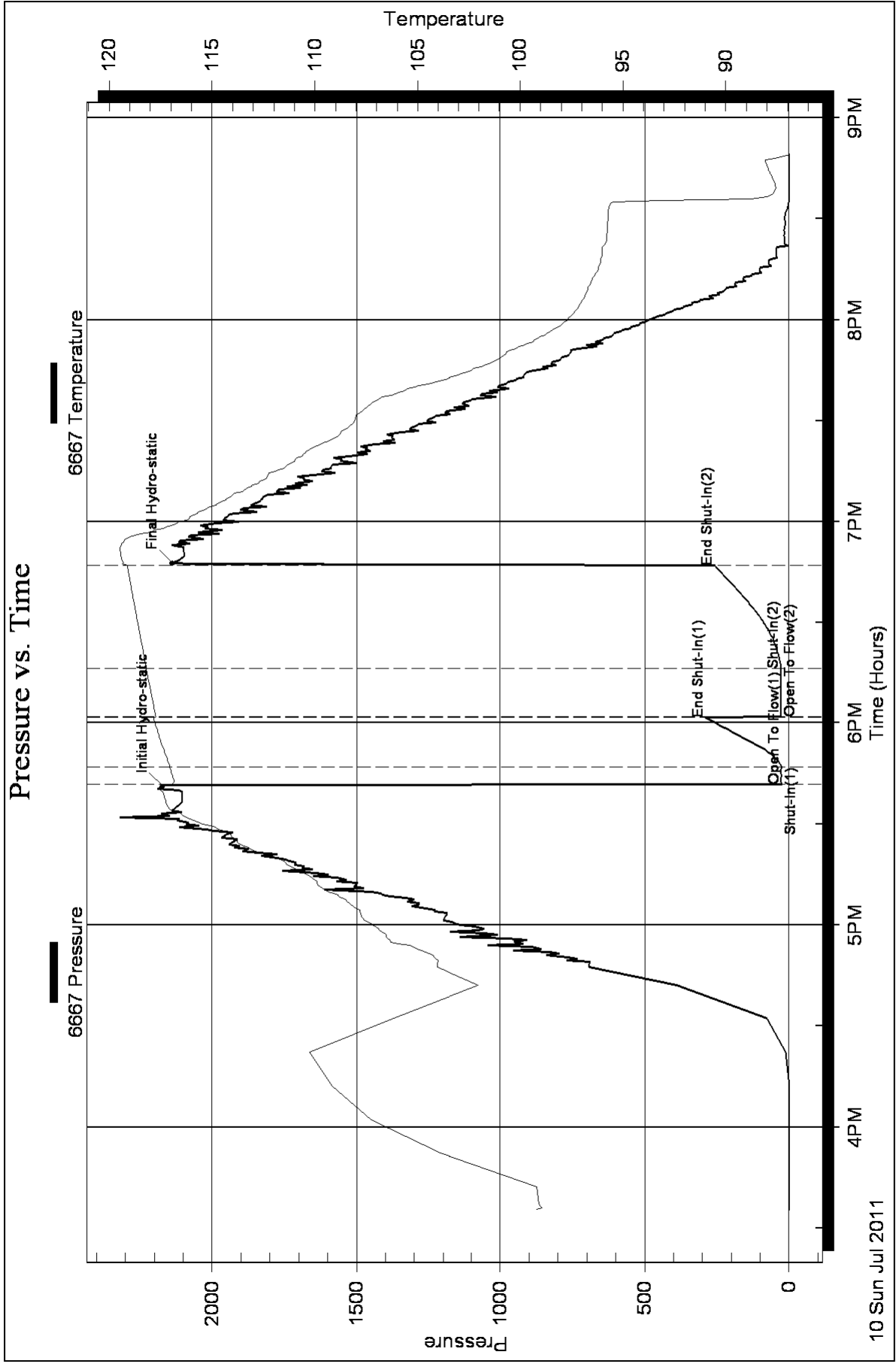
Num Gas Bombs: 0

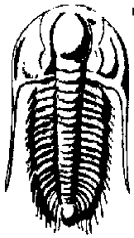
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering Inc

York #1-12

562 State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lewellyn

12-16-31 Scott, Ks

Job Ticket: 43268

DST#: 8

Test Start: 2011.07.11 @ 09:20:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:18:45

Time Test Ended: 14:48:30

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 55

Interval: 4436.00 ft (KB) To 4515.00 ft (KB) (TVD)

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6771 Outside

Press@RunDepth: 89.64 psig @ 4516.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.11

End Date:

2011.07.11

Last Calib.: 2011.07.11

Start Time: 09:20:15

End Time:

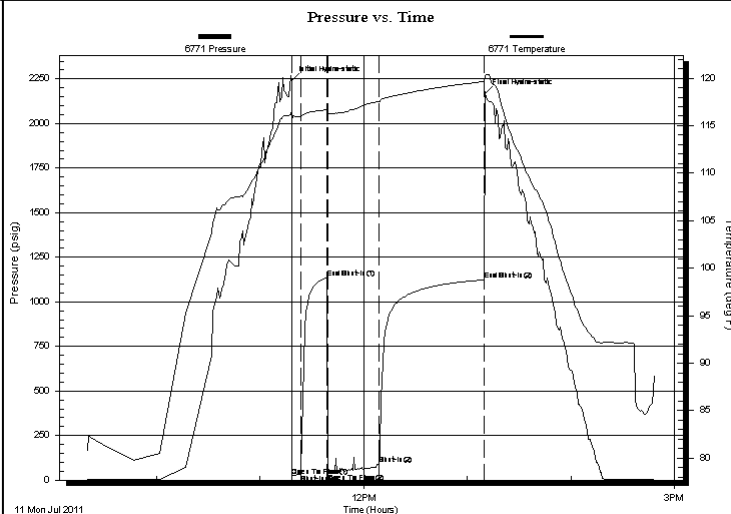
14:48:30

Time On Btm: 2011.07.11 @ 11:18:30

Time Off Btm: 2011.07.11 @ 13:10:30

TEST COMMENT: Built To 1/2" Blow
No Return Blow
Built To 1" Blow
No Return Blow

PRESSURE SUMMARY



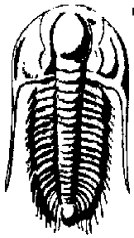
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.16	116.62	Initial Hydro-static
1	23.99	115.51	Open To Flow (1)
6	32.01	115.91	Shut-In(1)
21	1134.23	116.67	End Shut-In(1)
21	37.26	116.28	Open To Flow (2)
51	89.64	117.53	Shut-In(2)
111	1123.27	119.63	End Shut-In(2)
112	2169.27	120.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	100% M	0.34

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

York #1-12

562 State Rd 4

12-16-31 Scott, Ks

Olmitz, Ks

Job Ticket: 43268

DST#: 8

67564

Test Start: 2011.07.11 @ 09:20:00

ATTN: Bob Lew ellyn

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.75 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	100% M	0.344

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

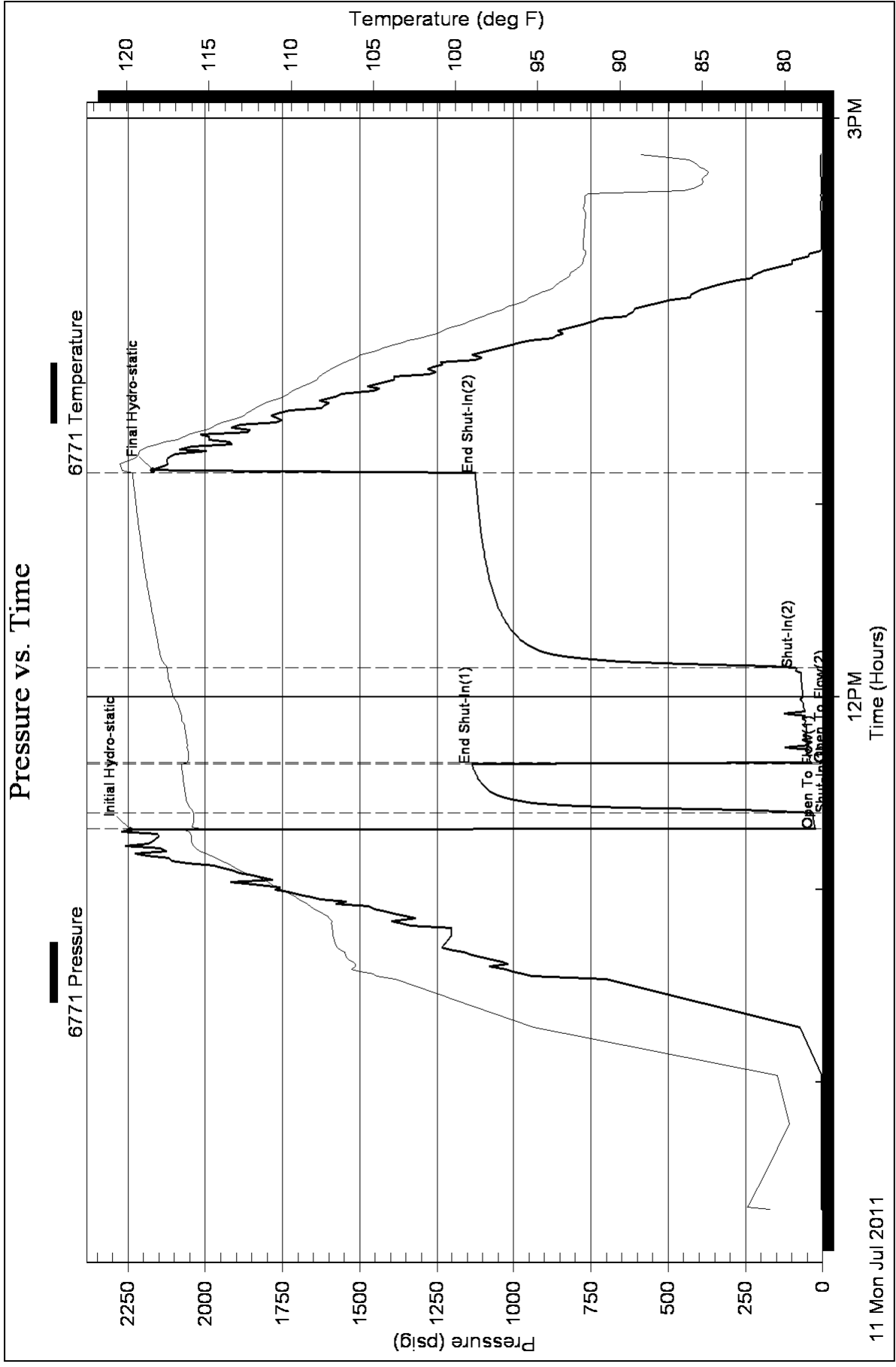
Num Gas Bombs: 0

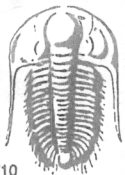
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JUL 11 2011

Test Ticket

BY: _____

NO. 43261 15995

Well Name & No. York #1-12 Test No. #1 Date 7/5/11
Company Larson Engineering, Inc. Elevation 2624 KB 2817 GL
Address 562 W. State Rd 4 Chmiltz, KS 67564
Co. Rep / Geo. Bob Jewell Rig HD #3
Location: Sec. 12 Twp. 16.5 Rge. 3/4 Co. Scott State KS

Interval Tested 3910 3935 Zone Tested B
Anchor Length 25 Drill Pipe Run 3745' Mud Wt. 9.0
Top Packer Depth 3905 Drill Collars Run 168' 4-90' Vis 53
Bottom Packer Depth 3910 Wt. Pipe Run _____ WL 6.8
Total Depth 3935 Chlorides 2200 ppm System LCM #1

Blow Description Weak blow died in 4 min
No return
No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>4 mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1' BHT 113° 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>1908</u>	<u>17</u>	<u>18</u>	<u>485</u>	<u>18</u>	<u>18</u>	<u>608</u>	<u>1856</u>

Test	Jars	Safety Joint	Circ Sub	Hourly Standby	Mileage	Sampler	Straddle	Shale Packer	Extra Packer	Extra Recorder	Day Standby	Accessibility
<u>1125'</u>	<u>250</u>	<u>75'</u>	<u>N/C</u>		<u>62 RT 8680</u>							

T-On Location 13:00
T-Started 14:50
T-Open 16:50
T-Pulled 17:55
T-Out 19:35
Comments _____

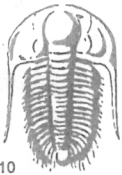
Initial Open 5
Initial Shut-In 15
Final Flow 15
Final Shut-In 30

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1536.80
MP/DST Disc't _____
Sub Total 1536.80

Approved By _____

Our Representative _____

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket
JUL 11 2011 NO. 43262

BY: _____

Well Name & No. York #1-12 Test No. #2 Date 7/6/11
 Company Parson Engineering Inc. Elevation 2824 KB 2817 GL
 Address 562 W State Rd 4 Chmitz, KS 67564
 Co. Rep / Geo. Bob Jewell Rig H.D. #3
 Location: Sec. 12 Twp. 16S Rge. 3W Co. Scott State KS

Interval Tested 4060 4090 Zone Tested H
 Anchor Length 30 Drill Pipe Run 3895' Mud Wt. 9.4
 Top Packer Depth 4055 Drill Collars Run 14.3' H-90 Vis 57
 Bottom Packer Depth 4060 Wt. Pipe Run — WL 8.0
 Total Depth 4090 Chlorides 3000 ppm System LCM #1/2

Blow Description Weak blow died in 2 min
No return
No blow
No return

Rec <u>1'</u>	Feet of <u>Mud</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 117° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2040</u>	☒ Test	T-On Location <u>11:35</u>
(B) First Initial Flow <u>18</u>	☒ Jars	T-Started <u>12:20</u>
(C) First Final Flow <u>18</u>	☒ Safety Joint	T-Open <u>14:11</u>
(D) Initial Shut-In <u>242</u>	☒ Circ Sub <u>N/C</u>	T-Pulled <u>15:16</u>
(E) Second Initial Flow <u>18</u>	☐ Hourly Standby	T-Out <u>17:15</u>
(F) Second Final Flow <u>19</u>	☒ Mileage <u>62 RT 80.80</u>	Comments
(G) Final Shut-In <u>529</u>	☐ Sampler	
(H) Final Hydrostatic <u>1949</u>	☐ Straddle	☐ Ruined Shale Packer

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

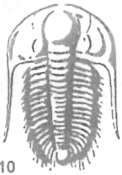
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1636.80

☐ Ruined Packer
☐ Extra Copies
 Sub Total
 Total 1636.80
 MP/DST-Disc't

Approved By [Signature]

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket

JUL 11 2011 NO. 43263

BY: _____

Well Name & No. York # 1-12 Test No. #3 Date 7/7/11
 Company Larson Engineering Inc. Elevation 2824 KB 2817 GL
 Address 562 W State Rd 4 Chmiz, Ks 67564
 Co. Rep / Geo. Bob Jewell Rig H.D. #3
 Location: Sec. 12 Twp. 16S Rge. 31W Co. _____ State Ks

Interval Tested 4096 4128 Zone Tested I
 Anchor Length 32 Drill Pipe Run 3950 Mud Wt. 9.4
 Top Packer Depth 4091 Drill Collars Run 143' H-90 Vis 57
 Bottom Packer Depth 4096 Wt. Pipe Run _____ WL 8.0
 Total Depth 4128 Chlorides 3000 ppm System LCM #1

Blow Description Weak blow died in 4 m.w
No return

No blow
No return

Rec <u>1'</u>	Feet of <u>Mud</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

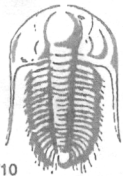
Rec Total 1' BHT 116° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2015 ☒ Test 1225' T-On Location 02:35
 (B) First Initial Flow 19 ☒ Jars 250 T-Started 03:10
 (C) First Final Flow 19 ☒ Safety Joint 75' T-Open 05:11
 (D) Initial Shut-In 111 ☒ Circ Sub N/C T-Pulled 06:16
 (E) Second Initial Flow 18 ☐ Hourly Standby _____ T-Out 09:00
 (F) Second Final Flow 19 ☒ Mileage 62 RT 96.80 Comments _____
 (G) Final Shut-In 394 ☐ Sampler _____
 (H) Final Hydrostatic 1963 ☐ Straddle _____ ☐ Ruined Shale Packer _____
☐ Shale Packer _____ ☐ Ruined Packer _____
☐ Extra Packer _____ ☐ Extra Copies _____
☐ Extra Recorder _____ Sub Total _____
☐ Day Standby _____ Total _____
☐ Accessibility _____ MP/DST Disc't _____

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

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JUL 11 2011

Test Ticket

NO. 43264

BY: _____

Well Name & No. York # 1-12 Test No. # 4 Date 7/8/11
 Company Parson Engineering Inc Elevation 2824 KB 2817 GL
 Address 562 W State Rd 4 Okm itz, Ks
 Co. Rep / Geo. Bob Hewell yn Rig H.D. #3
 Location: Sec. 12 Twp. 16S Rge. 31W Co. _____ State Ks

Interval Tested 4150 4176 Zone Tested K
 Anchor Length 26 Drill Pipe Run 3987 Mud Wt. 9.0
 Top Packer Depth 4145 Drill Collars Run 143' H-90 Vis 50
 Bottom Packer Depth 4150 Wt. Pipe Run _____ WL 8.0
 Total Depth 4176 Chlorides 2300 ppm System LCM # 1/2

Blow Description Weak Surface blow
No return
No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>35'</u>	<u>Heavy Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic <u>2050</u>	☒ Test <u>1225'</u>	T-On Location <u>19:00</u>
(B) First Initial Flow <u>17</u>	☒ Jars <u>250'</u>	T-Started <u>19:35</u>
(C) First Final Flow <u>25</u>	☒ Safety Joint <u>75'</u>	T-Open <u>21:31</u>
(D) Initial Shut-In <u>1053</u>	☒ Circ Sub <u>N/C</u>	T-Pulled <u>22:36</u>
(E) Second Initial Flow <u>26</u>	☐ Hourly Standby _____	T-Out <u>00:58</u>
(F) Second Final Flow <u>47</u>	☒ Mileage <u>12 RT 86.80</u>	Comments _____
(G) Final Shut-In <u>1055</u>	☐ Sampler _____	
(H) Final Hydrostatic <u>1969</u>	☐ Straddle _____	☐ Ruined Shale Packer _____

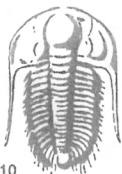
Initial Open <u>5</u>	☐ Shale Packer _____	☐ Ruined Packer _____
Initial Shut-In <u>15</u>	☐ Extra Packer _____	☐ Extra Copies _____
Final Flow <u>15</u>	☐ Extra Recorder _____	Sub Total _____
Final Shut-In <u>30</u>	☐ Day Standby _____	Total _____
	☐ Accessibility _____	MP/DST Disc't _____

Sub Total 1636.80

Approved By _____

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket

JUL 11 2011

NO. 43265

BY:

Well Name & No. York #1-12 Test No. #5 Date 7/9/11
 Company Larson Engineering Inc. Elevation 2824' KB 2817' GL
 Address 5612 W State Rd 4 Chm 42, KS
 Co. Rep / Geo. Bob Lowell Rig H.D. #3
 Location: Sec. 12 Twp. 16S Rge. 3W Co. Scott State KS

Interval Tested 4190 4215 Zone Tested L
 Anchor Length 25 Drill Pipe Run 4051 Mud Wt. 9.3
 Top Packer Depth 4185 Drill Collars Run 143' H-90 Vis 47
 Bottom Packer Depth 4190 Wt. Pipe Run --- WL 7.2
 Total Depth 4215 Chlorides 2300 ppm System LCM #1

Blow Description Weak blow died in 3 min.
No return
No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
1'	Mud			100	

Rec Total 1' BHT 116° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic	<u>2072</u>	☒ Test	<u>1925'</u>	T-On Location	<u>10:50</u>
(B) First Initial Flow	<u>14</u>	☒ Jars	<u>250'</u>	T-Started	<u>11:30</u>
(C) First Final Flow	<u>15</u>	☒ Safety Joint	<u>75'</u>	T-Open	<u>13:00</u>
(D) Initial Shut-In	<u>352</u>	☒ Circ Sub	<u>N/A</u>	T-Pulled	<u>14:05</u>
(E) Second Initial Flow	<u>14</u>	☐ Hourly Standby		T-Out	<u>16:25</u>
(F) Second Final Flow	<u>17</u>	☒ Mileage	<u>62NT 86.80</u>	Comments	
(G) Final Shut-In	<u>613</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1978</u>	☐ Straddle		☐ Ruined Shale Packer	

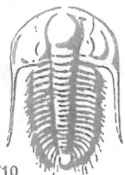
Initial Open	<u>5</u>	☐ Extra Packer	☐ Extra Copies
Initial Shut-In	<u>15</u>	☐ Extra Recorder	Sub Total <u>0</u>
Final Flow	<u>15</u>	☐ Day Standby	Total <u>1636.80</u>
Final Shut-In	<u>30</u>	☐ Accessibility	MP/DST Disc't

Sub Total 1636.80

Approved By

Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43266

JUL 17 2011

Well Name & No. York 1-12 Test No. Le Date 7/9/11
 Company Larson Engineering Inc. Elevation 2824 KB 2817 GL
 Address 562 State Rd 4 Olmitz, KS 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD #3
 Location: Sec. 12 Twp. 16 Rge. 31 Co. Scott State KS

Interval Tested 4248-4345 Zone Tested Altamont
 Anchor Length 97 Drill Pipe Run 4182 Mud Wt. 9.3
 Top Packer Depth 4341 4244 Drill Collars Run 143 Vis .52
 Bottom Packer Depth 4345 4248 Wt. Pipe Run 6 WL 7.6
 Total Depth 4346 Chlorides 3200 ppm System LCM 1

Blow Description Built to 3' Blow
No Return Blow
Very weak surface blow
No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>Le5</u>	<u>M</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 65 BHT 120 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic	<u>2,131</u>	☒ Test	<u>1225</u>	T-On Location	<u>14:25</u>
(B) First Initial Flow	<u>70</u>	☒ Jars	<u>250</u>	T-Started	<u>15:55</u>
(C) First Final Flow	<u>73</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>18:20</u>
(D) Initial Shut-In	<u>325</u>	☒ Circ Sub	<u>N/C</u>	T-Pulled	<u>20:11</u>
(E) Second Initial Flow	<u>72</u>	☐ Hourly Standby		T-Out	<u>22:12</u>
(F) Second Final Flow	<u>74</u>	☒ Mileage	<u>1241 89.80</u>	Comments	
(G) Final Shut-In	<u>458</u>	☐ Sampler			
(H) Final Hydrostatic	<u>2,016</u>	☐ Straddle		☐ Ruined Shale Packer	

Initial Open 5
 Initial Shut-In 15
 Final Flow 30
 Final Shut-In 600

☒ Shale Packer 250
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

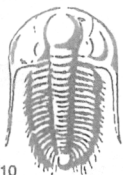
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1888.80
 MP/DST Disc't

Sub Total 1888.80

Approved By

Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43267

JUL 17 2011

Well Name & No. York 1-12 Test No. 7 Date 7/10/11
 Company Larson Engineering Inc. Elevation 2824 KB 2817 GL
 Address 562 State Rd 4 Olmitz, KS 67564
 Co. Rep / Geo. Bob Lewellyn Rig H O #3
 Location: Sec. 12 Twp. 16 Rge. 31 Co. Scott State KS

Interval Tested 4356 - 4457 Zone Tested Pawnee - Fort Scott
 Anchor Length 101 Drill Pipe Run 4312 Mud Wt. 9.3
 Top Packer Depth 4352 Drill Collars Run 143 Vis 52
 Bottom Packer Depth 4356 Wt. Pipe Run 0 WL 8.0
 Total Depth 4457 Chlorides 2,800 ppm System LCM 0.5

Blow Description Built to weak surface blow
No Return Blow
No Blow
No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>M</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 119 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2,171
 (B) First Initial Flow 25
 (C) First Final Flow 26
 (D) Initial Shut-In 290
 (E) Second Initial Flow 26
 (F) Second Final Flow 28
 (G) Final Shut-In 257
 (H) Final Hydrostatic 2,136

☒ Test 1225-
☒ Jars 250-
☒ Safety Joint 75-
☒ Circ Sub N/C
☐ Hourly Standby
☒ Mileage 62 RT 80.80
☐ Sampler
☐ Straddle
☒ Shale Packer 250-
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1886.80

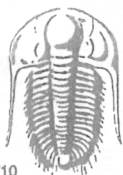
T-On Location 14:10
 T-Started 15:35
 T-Open 17:40
 T-Pulled 18:46
 T-Out 20:49
 Comments
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1886.80
 MP/DST Disc't

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

Approved By

Our Representative

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. 43268

JUL 17 2011

4/10

Well Name & No. York 1-12 Test No. 8 Date 7/11/11
 Company Larson Engineering Inc Elevation 2824 KB 2817 GL
 Address 562 State Rd 2 Olmitz, KS 67564
 Co. Rep / Geo. Bob Lewellyn Rig HD #3
 Location: Sec. 12 Twp. 16 Rge. 31 Co. Scott State KS

Interval Tested 4436 - 4515 Zone Tested Johnson
 Anchor Length 79 Drill Pipe Run 4349 Mud Wt. 9.3
 Top Packer Depth 4432 Drill Collars Run 143 Vis 52
 Bottom Packer Depth 4436 Wt. Pipe Run 0 WL 8.0
 Total Depth 4515 Chlorides 2,800 ppm System LCM 0.5

Blow Description Built to 1/2" Blow
No Return Blow
Built to 1" Blow
No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>M</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 70 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2,242</u>	☒ Test <u>1225</u>	T-On Location <u>7:30</u>
(B) First Initial Flow <u>24</u>	☒ Jars <u>250</u>	T-Started <u>9:20</u>
(C) First Final Flow <u>32</u>	☒ Safety Joint <u>75</u>	T-Open <u>11:28</u>
(D) Initial Shut-In <u>1,134</u>	☒ Circ Sub <u>N/C</u>	T-Pulled <u>13:09</u>
(E) Second Initial Flow <u>37</u>	☐ Hourly Standby	T-Out <u>14:48</u>
(F) Second Final Flow <u>90</u>	☒ Mileage <u>62RT 86.80</u>	Comments
(G) Final Shut-In <u>1,123</u>	☐ Sampler	
(H) Final Hydrostatic <u>2,169</u>	☐ Straddle	☐ Ruined Shale Packer
	☒ Shale Packer <u>250</u>	☐ Ruined Packer
	☐ Extra Packer	☐ Extra Copies
	☐ Extra Recorder	Sub Total <u>8</u>
	☐ Day Standby	Total <u>1886.80</u>
	☐ Accessibility	MP/DST Disc't
	Sub Total <u>1886.80</u>	

Initial Open 5
 Initial Shut-In 15
 Final Flow 30
 Final Shut-In 60

Approved By [Signature]

Our Representative [Signature]

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