

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th.ST STE 900
Denver CO 80202

ATTN: Kurt Talbort

Dearden #16-8-1931

8-19s-31w Scott,KS

Start Date: 2012.01.28 @ 23:54:15

End Date: 2012.01.29 @ 08:21:15

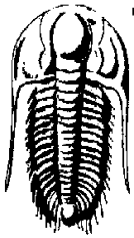
Job Ticket #: 44922 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.02 @ 10:22:25



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

ATTN: Kurt Tallbort

Job Ticket: 44922

DST#: 1

Test Start: 2012.01.28 @ 23:54:15

GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:08:45

Time Test Ended: 08:21:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 4220.00 ft (KB) To 4260.00 ft (KB) (TVD)

Total Depth: 4260.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2977.00 ft (KB)

2965.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6668 Outside

Press@RunDepth: 640.16 psig @ 4222.00 ft (KB)

Start Date: 2012.01.28

End Date:

2012.01.29

Start Time: 23:54:15

End Time:

08:21:15

Capacity: 8000.00 psig

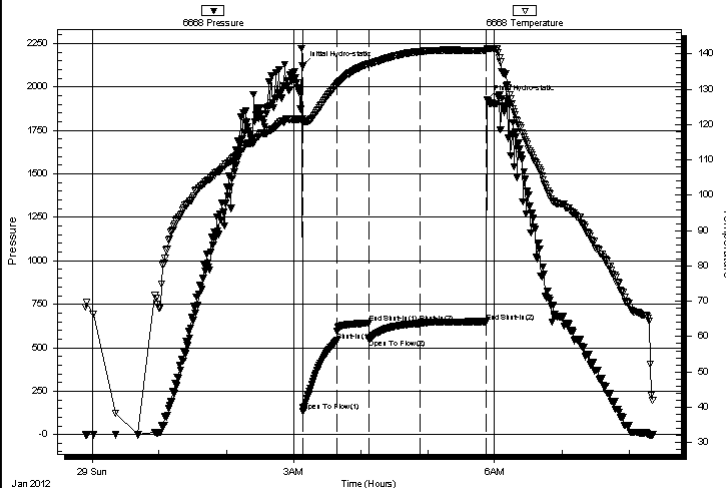
Last Calib.: 2012.01.29

Time On Btm: 2012.01.29 @ 03:08:00

Time Off Btm: 2012.01.29 @ 05:53:15

TEST COMMENT: IF:BOB in 2 min.
IS:No return blow
FF:BOB in 5 min
FS:No return blow

Pressure vs. Time



PRESSURE SUMMARY

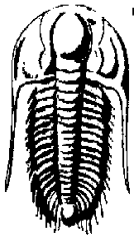
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.06	121.71	Initial Hydro-static
1	133.23	121.04	Open To Flow (1)
31	540.46	131.30	Shut-In(1)
60	641.49	137.17	End Shut-In(1)
60	550.56	137.20	Open To Flow (2)
106	640.16	140.68	Shut-In(2)
165	649.41	140.84	End Shut-In(2)
166	1925.84	141.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Free oil 100% o	0.63
372.00	gcmw o 10%g 30%m 10%w 60%o	5.22
372.00	gomcw 5%g 20%m 25%o 50%w	5.22
93.00	gcow 20%g 30%o 50%w	1.30
186.00	gcomw 5%g 10%o 10%m 75%w	2.61
372.00	ocgmw 2%o 5%g 10%m 83% w	5.22

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

410 17th.ST STE 900
Denver CO 80202

ATTN: Kurt Tallbort

8-19s-31w Scott,KS

Dearden #16-8-1931

Job Ticket: 44922

DST#: 1

Test Start: 2012.01.28 @ 23:54:15

GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:08:45

Time Test Ended: 08:21:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 4220.00 ft (KB) To 4260.00 ft (KB) (TVD)

Total Depth: 4260.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2977.00 ft (KB)

2965.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8358 Inside

Press@RunDepth: psig @ 4222.00 ft (KB)

Start Date: 2012.01.28

End Date:

2012.01.29

Start Time: 23:54:15

End Time:

08:21:30

Capacity: 8000.00 psig

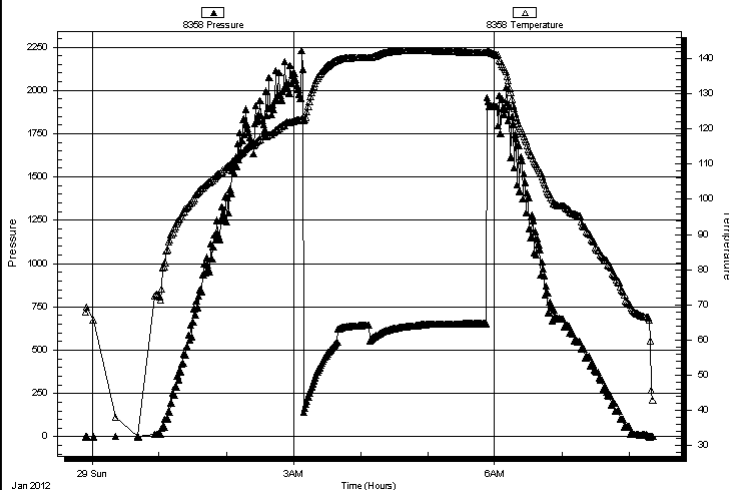
Last Calib.: 2012.01.29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 2 min.
IS:No return blow
FF:BOB in 5 min
FS:No return blow

Pressure vs. Time



PRESSURE SUMMARY

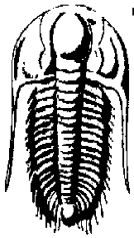
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Free oil 100% o	0.63
372.00	gcmw o 10%g 30%m 10%w 60%o	5.22
372.00	gomcw 5%g 20%m 25%o 50%w	5.22
93.00	gcow 20%g 30%o 50%w	1.30
186.00	gcomw 5%g 10%o 10%m 75%w	2.61
372.00	ocgmw 2%o 5%g 10%m 83% w	5.22

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44922

DST#: 1

ATTN: Kurt Tallbort

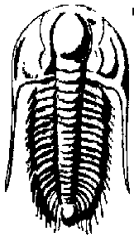
Test Start: 2012.01.28 @ 23:54:15

Tool Information

Drill Pipe:	Length:	4217.00 ft	Diameter:	3.80 inches	Volume:	59.15 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	59.15 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight: Initial	55000.00 lb
Depth to Top Packer:		4220.00 ft					Final	60000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		40.00 ft						
Tool Length:		68.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4193.00	
Shut In Tool	5.00			4198.00	
Hydraulic tool	5.00			4203.00	
Jars	5.00			4208.00	
Safety Joint	3.00			4211.00	
Packer	5.00			4216.00	28.00 Bottom Of Top Packer
Packer	4.00			4220.00	
Stubb	1.00			4221.00	
Perforations	1.00			4222.00	
Recorder	0.00	8358	Inside	4222.00	
Recorder	0.00	6668	Outside	4222.00	
Change Over Sub	1.00			4223.00	
Drill Pipe	31.00			4254.00	
Change Over Sub	1.00			4255.00	
Perforations	0.00			4255.00	
Bullnose	5.00			4260.00	40.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44922

DST#: 1

ATTN: Kurt Tallbort

Test Start: 2012.01.28 @ 23:54:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

22 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.55 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Free oil 100% o	0.631
372.00	gcmw o 10%g 30%m 10%w 60%o	5.218
372.00	gomcw 5%g 20%m 25%o 50%w	5.218
93.00	gcow 20%g 30%o 50%w	1.305
186.00	gcomw 5%g 10%o 10%m 75%w	2.609
372.00	ocgmw 2%o 5%g 10%m 83% w	5.218

Total Length: 1440.00 ft

Total Volume: 20.199 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .225@ 58.58=30,000ppm
API=22@60

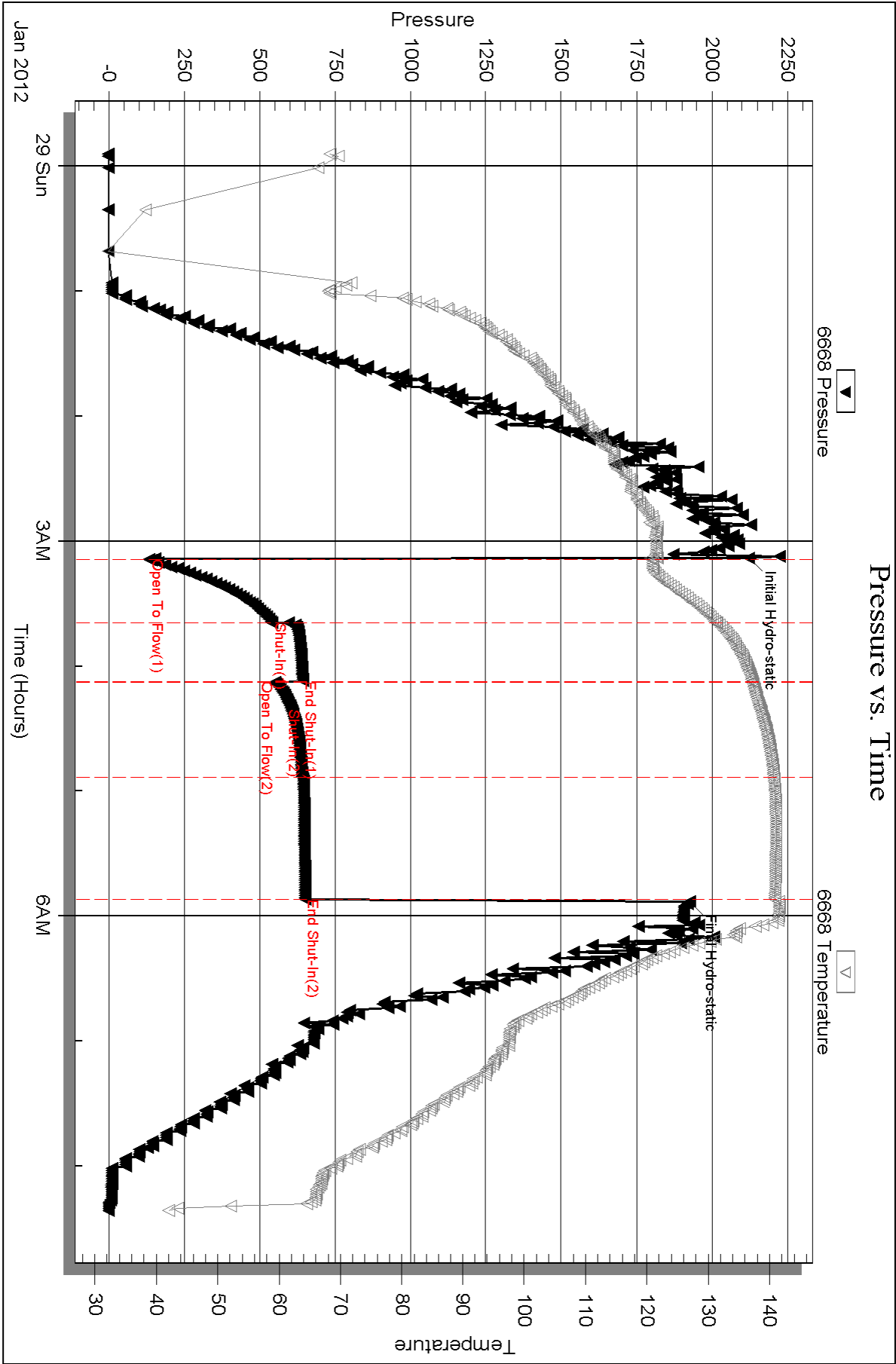
Serial #: 6668

Outside

FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 1



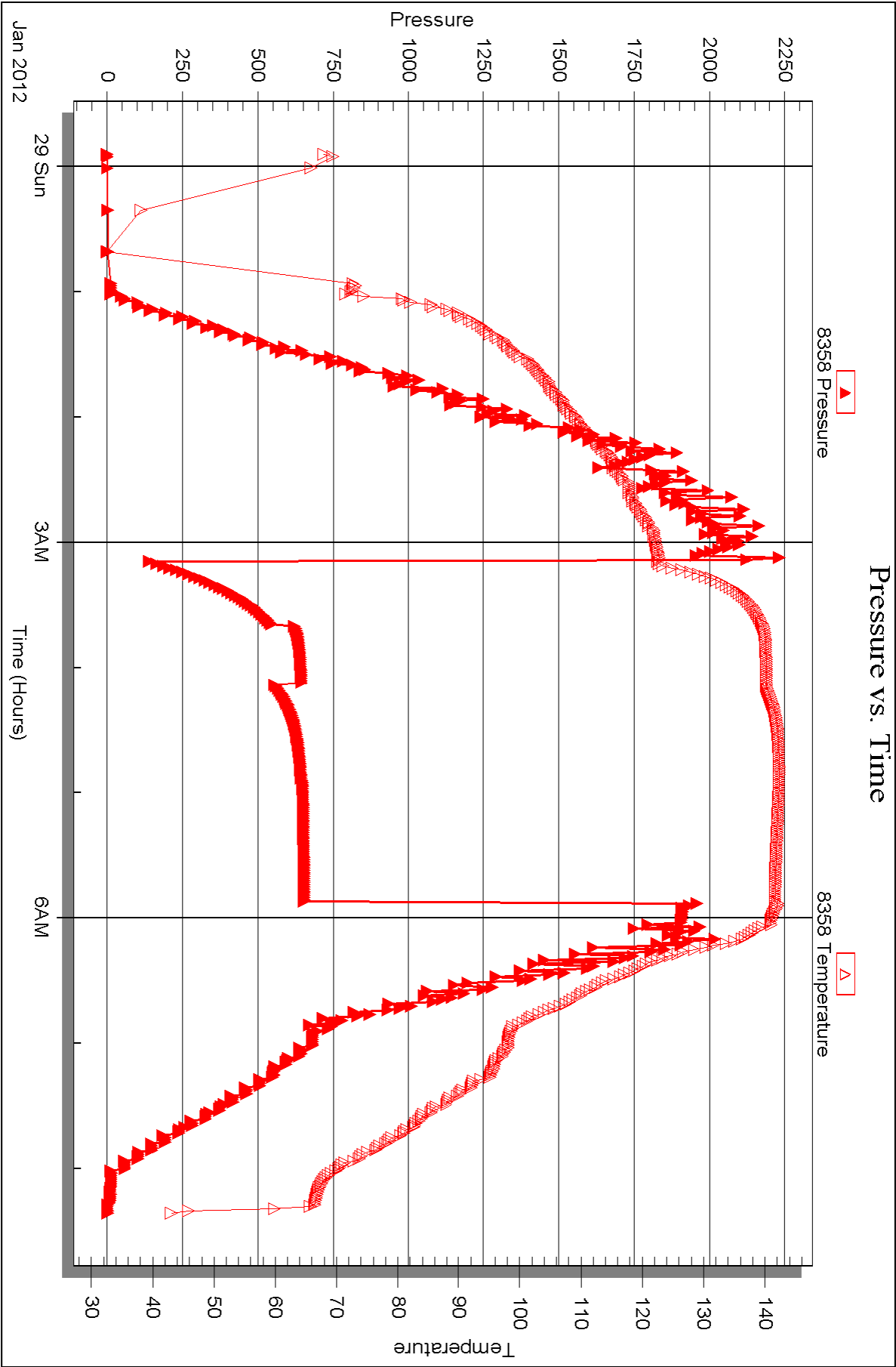
Serial #: 8358

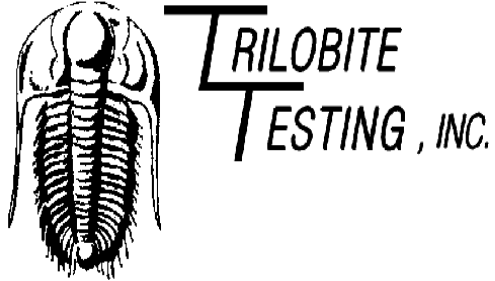
Inside

FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th.ST STE 900
Denver CO 80202

ATTN: Kurt Talbort

Dearden #16-8-1931

8-19s-31w Scott,KS

Start Date: 2012.01.30 @ 01:32:15

End Date: 2012.01.30 @ 08:26:30

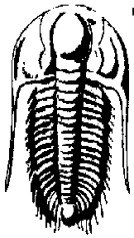
Job Ticket #: 44923 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.02 @ 10:21:20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

ATTN: Kurt Tallbort

Job Ticket: 44923

DST#: 2

Test Start: 2012.01.30 @ 01:32:15

GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:52:30

Time Test Ended: 08:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4320.00 ft (KB) To 4395.00 ft (KB) (TVD)

Total Depth: 4395.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2977.00 ft (KB)

2965.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6668 Outside

Press@RunDepth: 28.75 psig @ 4322.00 ft (KB)

Start Date: 2012.01.30

End Date:

2012.01.30

Start Time: 01:32:15

End Time:

08:26:30

Capacity: 8000.00 psig

Last Calib.: 2012.01.30

Time On Btm: 2012.01.30 @ 03:52:15

Time Off Btm: 2012.01.30 @ 06:39:00

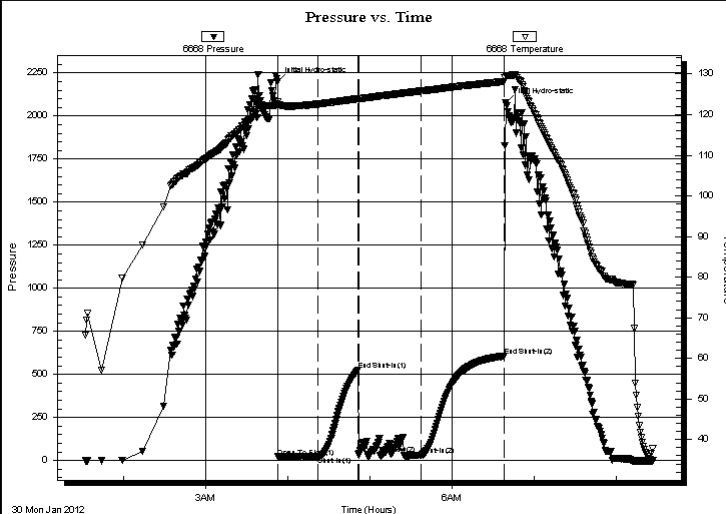
TEST COMMENT: IF: Built to 1/2" blow

IS: No return blow

FF: No blow

FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.55	123.07	Initial Hydro-static
1	20.71	122.29	Open To Flow (1)
30	24.32	122.61	Shut-In(1)
59	526.77	123.94	End Shut-In(1)
60	33.97	123.87	Open To Flow (2)
105	28.75	125.83	Shut-In(2)
166	606.61	128.15	End Shut-In(2)
167	2079.67	129.58	Final Hydro-static

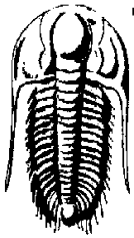
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w ith oil spots	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44923

DST#: 2

ATTN: Kurt Tallbort

Test Start: 2012.01.30 @ 01:32:15

GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:52:30

Time Test Ended: 08:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4320.00 ft (KB) To 4395.00 ft (KB) (TVD)

Total Depth: 4395.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2977.00 ft (KB)

2965.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8358 Inside

Press@RunDepth: psig @ 4322.00 ft (KB)

Start Date: 2012.01.30

End Date:

2012.01.30

Start Time: 01:32:15

End Time:

08:26:15

Capacity: 8000.00 psig

Last Calib.: 2012.01.30

Time On Btm:

Time Off Btm:

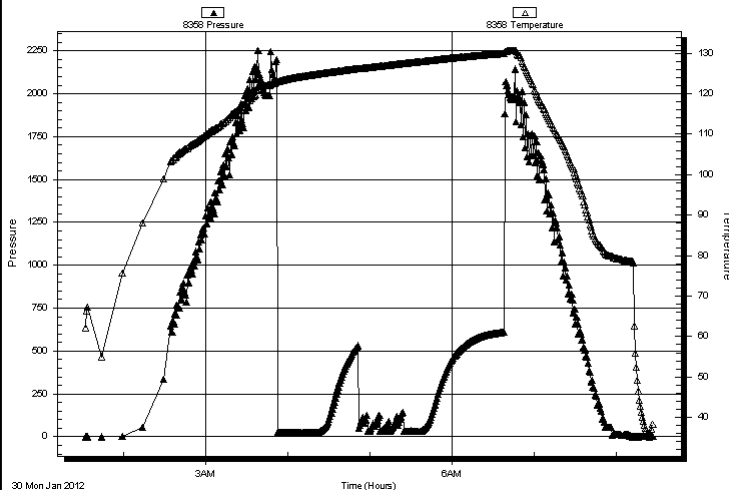
TEST COMMENT: IF: Built to 1/2" blow

IS: No return blow

FF: No blow

FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

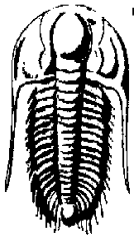
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w with oil spots	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44923

DST#: 2

ATTN: Kurt Tallbort

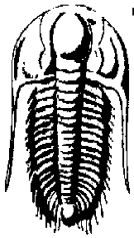
Test Start: 2012.01.30 @ 01:32:15

Tool Information

Drill Pipe:	Length:	4220.00 ft	Diameter:	3.80 inches	Volume:	59.20 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	92.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	59.20 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		4320.00 ft					Final	51000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		75.00 ft						
Tool Length:		103.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4293.00	
Shut In Tool	5.00			4298.00	
Hydraulic tool	5.00			4303.00	
Jars	5.00			4308.00	
Safety Joint	3.00			4311.00	
Packer	5.00			4316.00	28.00 Bottom Of Top Packer
Packer	4.00			4320.00	
Stubb	1.00			4321.00	
Perforations	1.00			4322.00	
Recorder	0.00	8358	Inside	4322.00	
Recorder	0.00	6668	Outside	4322.00	
Change Over Sub	1.00			4323.00	
Drill Pipe	64.00			4387.00	
Change Over Sub	1.00			4388.00	
Perforations	2.00			4390.00	
Perforations	0.00			4390.00	
Bullnose	5.00			4395.00	75.00 Bottom Packers & Anchor
Total Tool Length:	103.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44923

DST#: 2

ATTN: Kurt Tallbort

Test Start: 2012.01.30 @ 01:32:15

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: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 4.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud with oil spots	0.000

Total Length: 10.00 ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

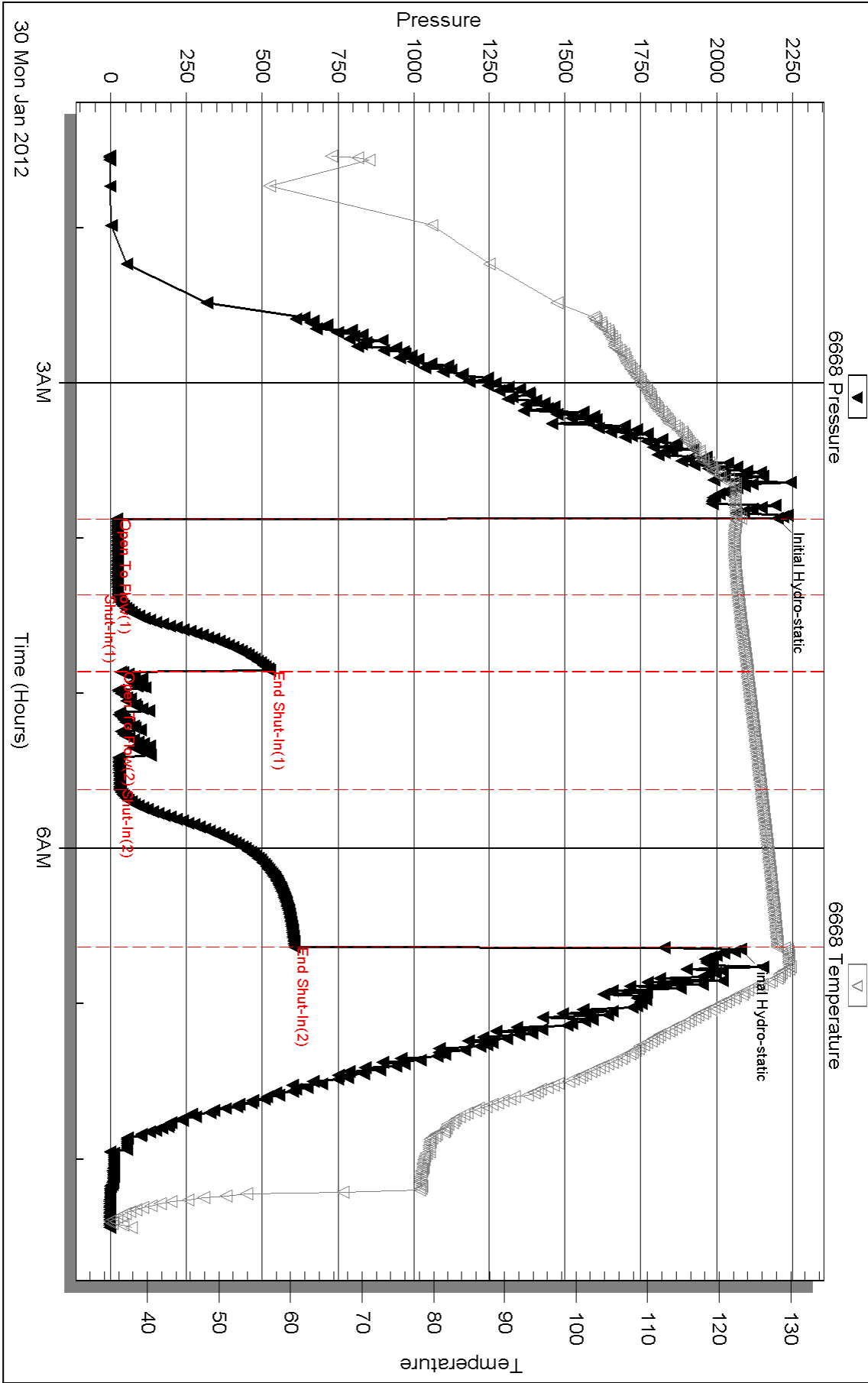
Serial #: 6668

Outside FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 2

Pressure vs. Time



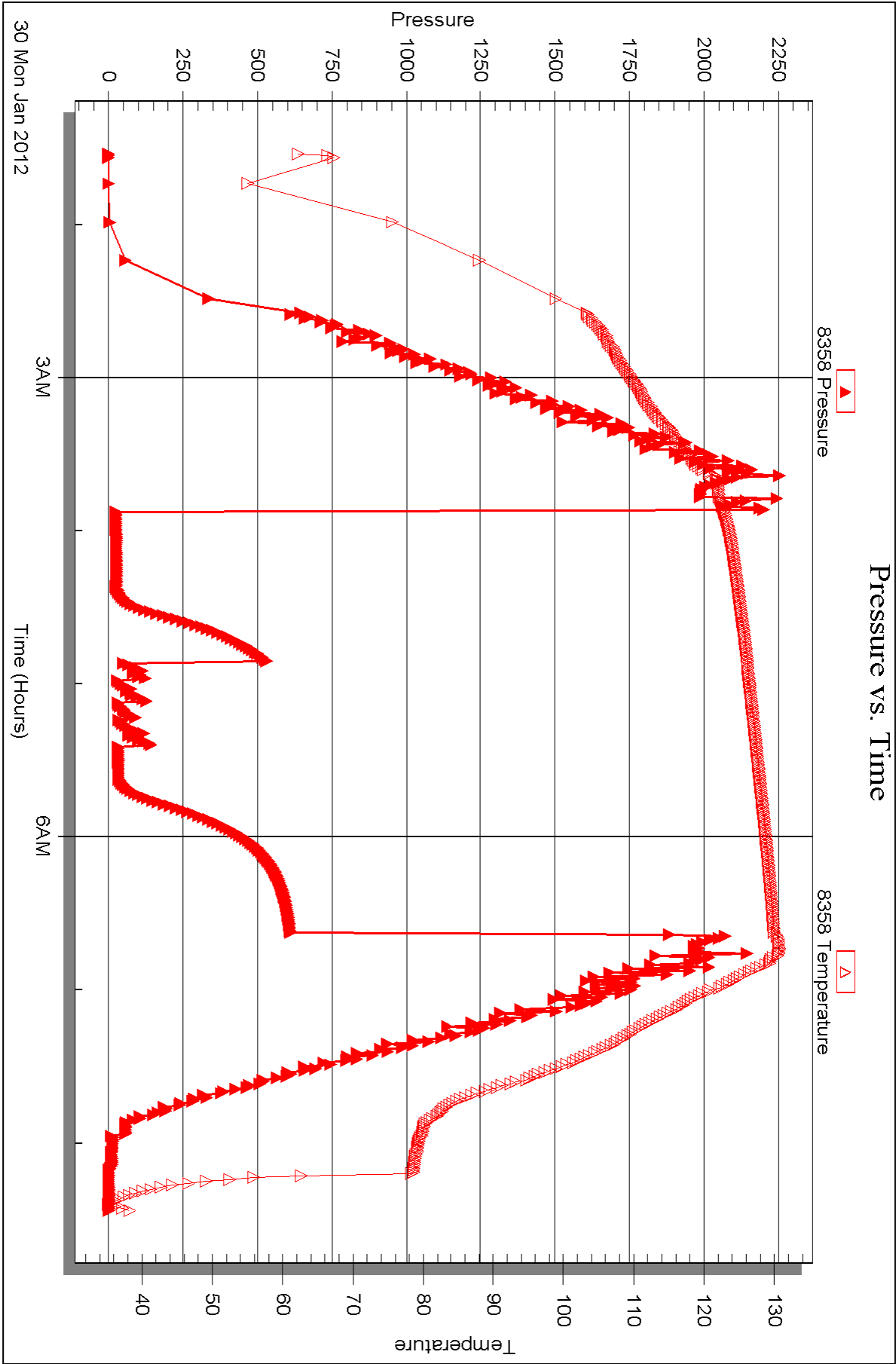
Serial #: 8358

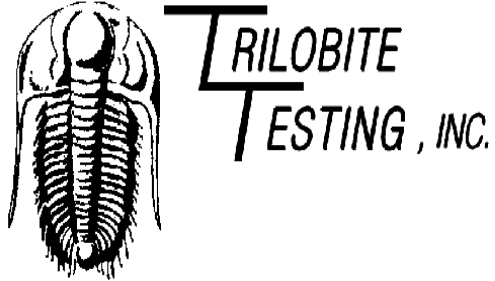
Inside

FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th. ST STE 900
Denver CO 80202

ATTN: Kurt Talbort

Dearden #16-8-1931

8-19s-31w Scott,KS

Start Date: 2012.01.31 @ 05:50:15

End Date: 2012.01.31 @ 12:04:30

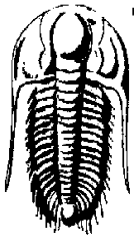
Job Ticket #: 44925 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.02 @ 10:20:22



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44925

DST#: 3

ATTN: Kurt Tallbort

Test Start: 2012.01.31 @ 05:50:15

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:59:00

Time Test Ended: 12:04:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4580.00 ft (KB) To 4627.00 ft (KB) (TVD)

Total Depth: 4627.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2977.00 ft (KB)

2965.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8358 Inside

Press@RunDepth: 22.14 psig @ 4584.00 ft (KB)

Start Date: 2012.01.31

End Date:

2012.01.31

Start Time: 05:50:15

End Time:

12:04:30

Capacity: 8000.00 psig

Last Calib.: 2012.01.31

Time On Btm: 2012.01.31 @ 07:58:45

Time Off Btm: 2012.01.31 @ 10:18:15

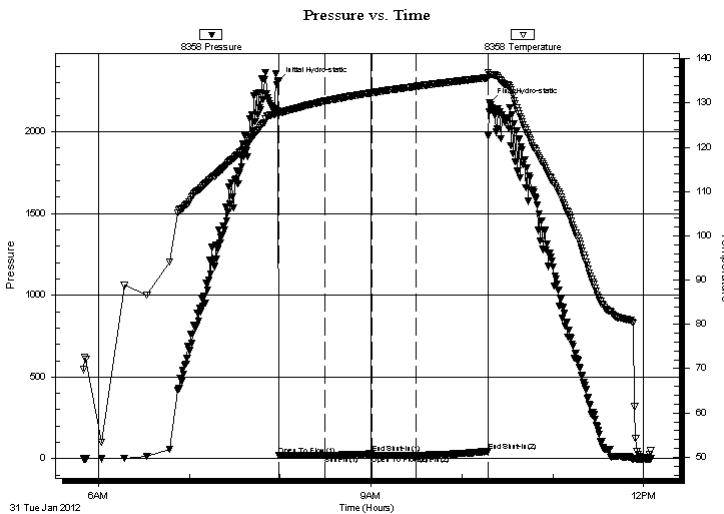
TEST COMMENT: IF: Built to 1/4' blow

IS: No return blow

FF: No blow

FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2308.06	128.32	Initial Hydro-static
1	21.08	127.56	Open To Flow (1)
31	22.02	130.44	Shut-In(1)
62	30.39	132.33	End Shut-In(1)
62	20.67	132.34	Open To Flow (2)
91	22.14	133.79	Shut-In(2)
139	45.81	135.74	End Shut-In(2)
140	2176.52	136.36	Final Hydro-static

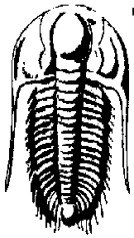
Recovery

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

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44925

DST#: 3

ATTN: Kurt Tallbort

Test Start: 2012.01.31 @ 05:50:15

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:59:00

Time Test Ended: 12:04:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4580.00 ft (KB) To 4627.00 ft (KB) (TVD)

Reference Elevations: 2977.00 ft (KB)

Total Depth: 4627.00 ft (KB) (TVD)

2965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6668 Outside

Press@RunDepth: psig @ 4584.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.31

End Date:

2012.01.31

Last Calib.:

2012.01.31

Start Time: 05:50:15

End Time:

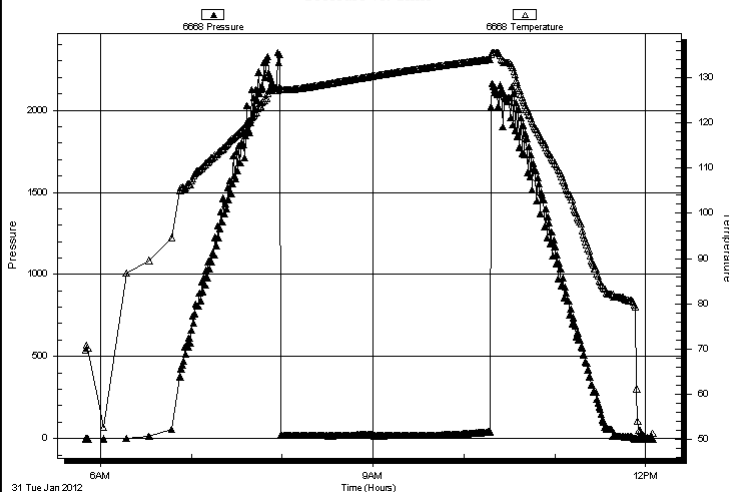
12:04:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 1/4' 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
-------------	-----------------	--------------	------------

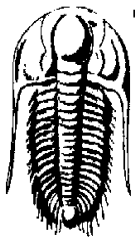
Recovery

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

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44925

DST#: 3

ATTN: Kurt Tallbort

Test Start: 2012.01.31 @ 05:50:15

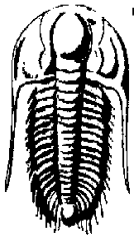
Tool Information

Drill Pipe:	Length:	4478.00 ft	Diameter:	3.80 inches	Volume:	62.81 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	92.00 ft	Diameter:	2.25 inches	Volume:	0.45 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	63.26 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		4580.00 ft					Final	53000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		47.00 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
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4561.00	
Shut In Tool	5.00			4566.00	
Hydraulic tool	5.00			4571.00	
Packer	5.00			4576.00	20.00 Bottom Of Top Packer
Packer	4.00			4580.00	
Stubb	1.00			4581.00	
Perforations	3.00			4584.00	
Recorder	0.00	8358	Inside	4584.00	
Recorder	0.00	6668	Outside	4584.00	
Change Over Sub	1.00			4585.00	
Drill Pipe	31.00			4616.00	
Change Over Sub	1.00			4617.00	
Perforations	5.00			4622.00	
Bullnose	5.00			4627.00	47.00 Bottom Packers & Anchor

Total Tool Length: 67.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44925

DST#: 3

ATTN: Kurt Tallbort

Test Start: 2012.01.31 @ 05:50:15

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: 5.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 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:

Serial #: 8358

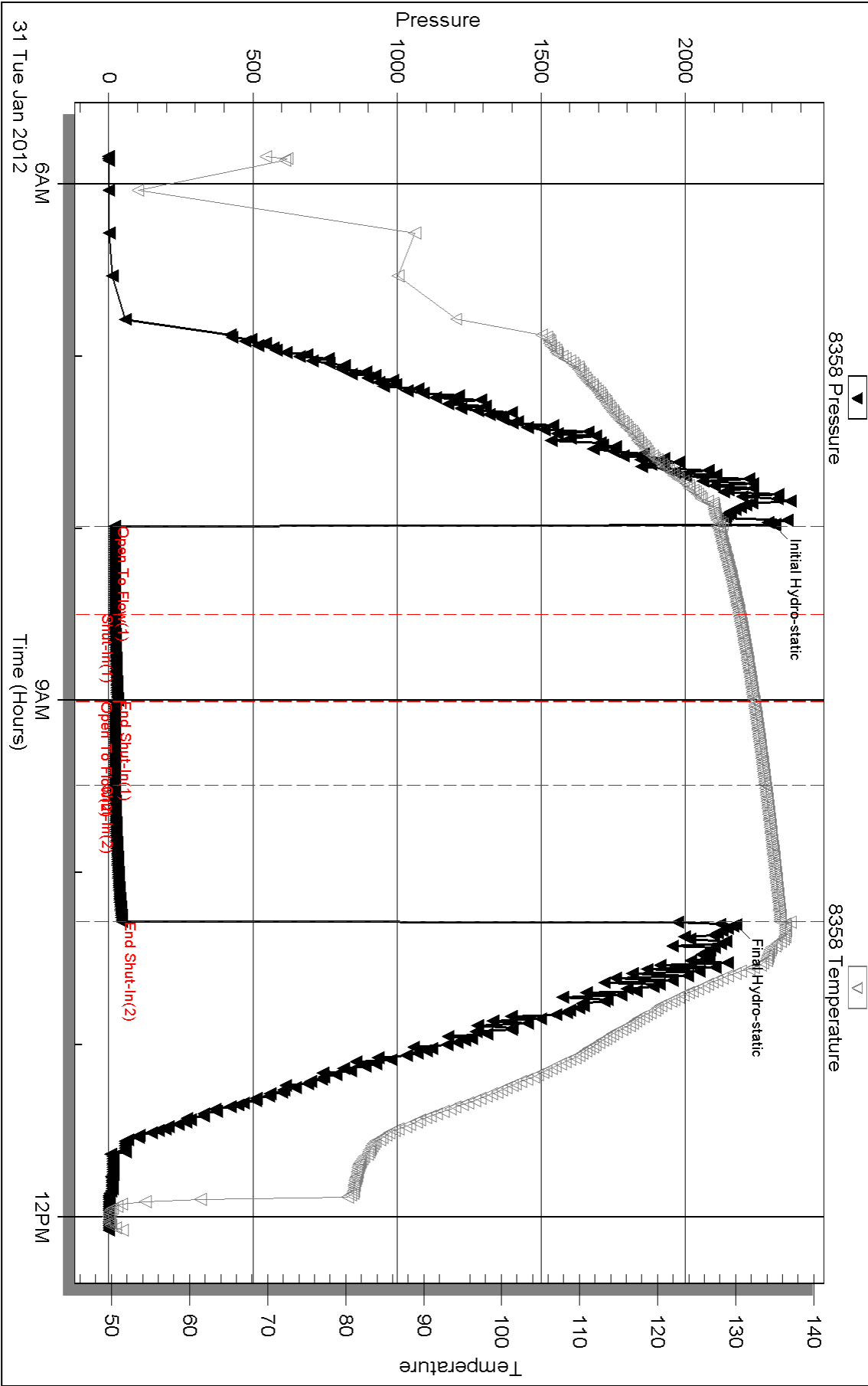
Inside

FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 3

Pressure vs. Time

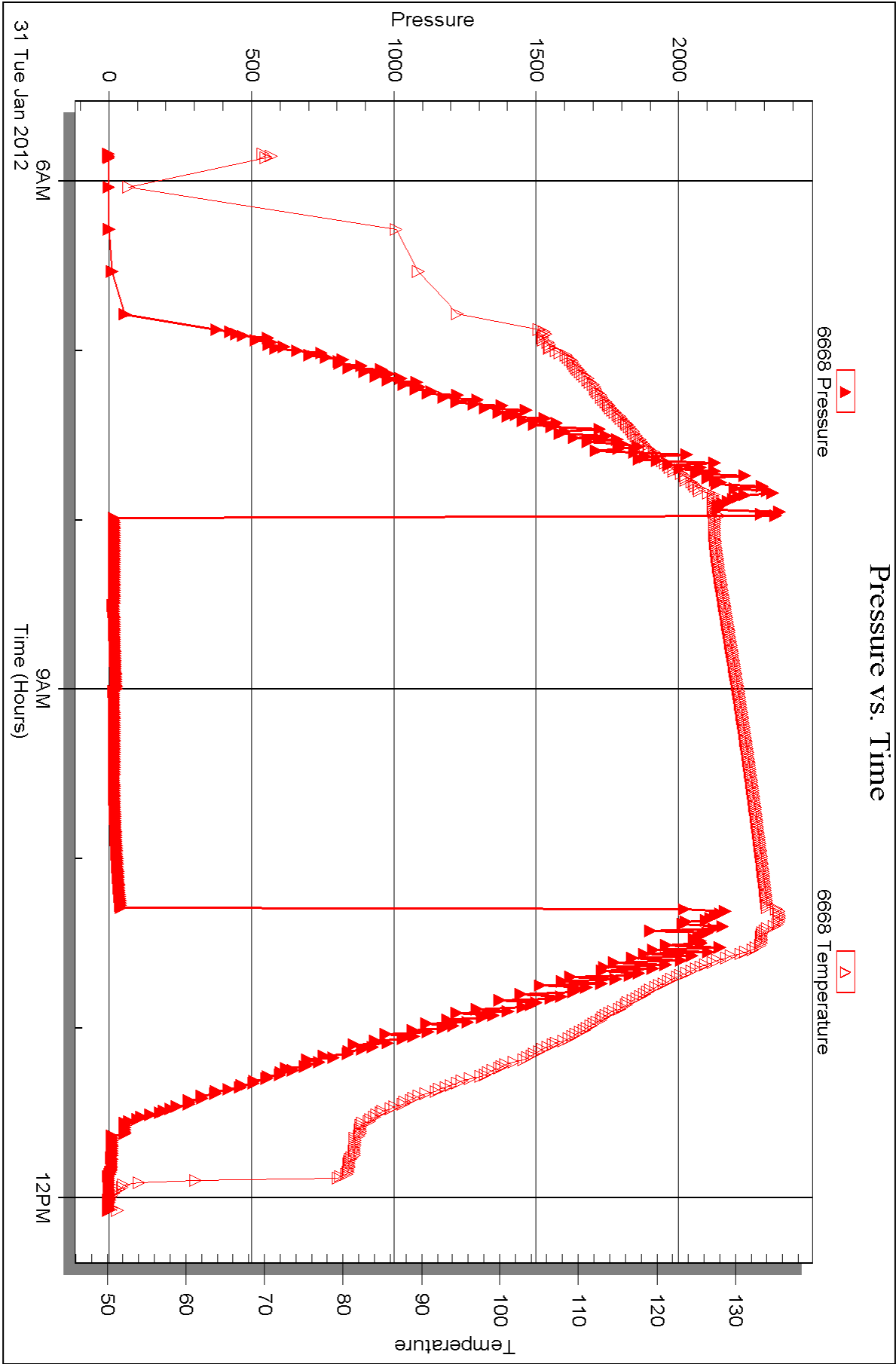


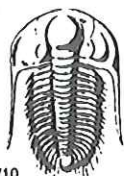
Serial #: 6668

Outside FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket
FEB 01 2012 NO. 44922

Well Name & No. Dearden #16-8-1931 Test No. 1 Date 1-28-12
 Company FIML Natural Resources LLC Elevation 2977 KB 2965 GL
 Address 410 17th ST STE 900 Denver CO 80202
 Co. Rep / Geo. Kurt Talbort Rig H2 Rig 1
 Location: Sec. 8 Twp. 19S Rge. 3W Co. Scott State KS

Interval Tested 4220 - 4260 Zone Tested Lansing "J"
 Anchor Length 40' Drill Pipe Run 4220 Mud Wt. 9.1
 Top Packer Depth 4216 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4220 Wt. Pipe Run 0 WL 5.16
 Total Depth 4260 Chlorides 2400 ppm System LCM 4
 Blow Description IF: BOB in 2 Min.
IS: No Return Blow
FF: BOB in 5 Min
FS: No Return Blow

Rec	45'	Feet of	Free oil	%gas	100	%oil		%water		%mud	
Rec	372'	Feet of	gc mo	10	%gas	60	%oil	10	%water	30	%mud
Rec	372	Feet of	gc mcw	5	%gas	25	%oil	50	%water	20	%mud
Rec	93'	Feet of	gc ow	20	%gas	30	%oil	50	%water		%mud
Rec	186	Feet of	gc omw	5	%gas	10	%oil	75	%water	10	%mud
Rec	372	Feet of	oc gwm	5	%gas	2	%oil	83	%water		%mud
			14142	Gravimetric	32	API RW	225 @ 58.5	F Chlorides	30,000	ppm	

Rec Total 1440 BHT 141 Gravity 22 API RW 225 @ 58.5 ° F Chlorides 3900 ppm
 (A) Initial Hydrostatic 2122 ☒ Test 1225.00 T-On Location 02:30
 (B) First Initial Flow 133 ☒ Jars 250.00 T-Started 23:54
 (C) First Final Flow 540 ☒ Safety Joint 75.00 T-Open 04:08
 (D) Initial Shut-In 641 ☒ Circ Sub NC T-Pulled 06:53
 (E) Second Initial Flow 550 ☐ Hourly Standby T-Out 08:21
 (F) Second Final Flow 640 ☒ Mileage 28 RT = 39.20 Comments
 (G) Final Shut-In 649 ☐ Sampler
 (H) Final Hydrostatic 1925 ☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☒ Accessibility 150.00
 Sub Total \$1739.20
 Initial Open 30
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60

Approved By [Signature] Our Representative Mike Roberts
 Total 1739.20 MP/DST Disc't
 Sub Total 1589.20
 TriLOBITE TESTING Inc. shall not be liable for damaged or 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 BY: _____

RECEIVED
FEB 01 2012

Test Ticket

NO. 44923

Well Name & No. Dearden #16.8-1931 Test No. 2 Date 1-30-12
Company FIML Natural Resources LLC Elevation 2977 KB 2965 GL
Address 410 17th ST STE 900 Denver CO 80202
Co. Rep / Geo. Kurt Talbort Rig H2 Rig #1
Location: Sec. 8 Twp. 19S Rge. 31W Co. SCOTT State KS

Interval Tested 4320-4395 Zone Tested Marmaton A-B
Anchor Length 75' Drill Pipe Run 4220 Mud Wt. 9.1
Top Packer Depth 4316 Drill Collars Run 92 Vis 62
Bottom Packer Depth 4320 Wt. Pipe Run 0 WL 4.8
Total Depth 4395 Chlorides 3400 ppm System LCM 9
Blow Description IF: Built to 1/2" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud with 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	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 130 Gravity 1 API RW 1 @ 1 ° F Chlorides 1 ppm
(A) Initial Hydrostatic 2199 ☒ Test 1225.00 T-On Location 01:00
(B) First Initial Flow 20 ☒ Jars 250.00 T-Started 01:32
(C) First Final Flow 24 ☒ Safety Joint 75.00 T-Open 03:52
(D) Initial Shut-In 526 ☒ Circ Sub NC T-Pulled 06:37
(E) Second Initial Flow 33 ☐ Hourly Standby _____ T-Out 08:26
(F) Second Final Flow 28 ☒ Mileage 28RT = 39.20 Comments _____
(G) Final Shut-In 606 ☐ Sampler _____
(H) Final Hydrostatic 2079 ☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☒ Accessibility 150.00
Sub Total 1739.20 1589.20

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

☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
Sub Total _____
Total 1739.20
MP/DST Disc't _____

Approved By [Signature]

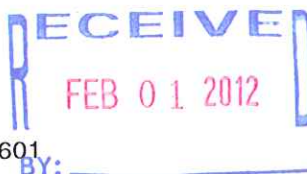
Our Representative Mike Relata

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. 44925

4/10

Well Name & No. Dearden #16-8-1931 Test No. 3 Date 1-31-12
 Company FIML Natural Resources LLC Elevation 2977 KB 2965 GL
 Address 410 17th ST STE 900 Denver CO 80202
 Co. Rep / Geo. Kurt Talbort Rig H2 Rig #1
 Location: Sec. 8 Twp. 19S Rge. 31W Co. SCOTT State KS

Interval Tested 4580-4627 Zone Tested Spergen
 Anchor Length 47' Drill Pipe Run 4478 Mud Wt. 9.2
 Top Packer Depth 4576 Drill Collars Run 92 Vis 56
 Bottom Packer Depth 4580 Wt. Pipe Run 0 WL 5.2
 Total Depth 4627 Chlorides 3900 ppm System LCM 10
 Blow Description IF: Built to 1/4" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MVD</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 137 Gravity ✓ API RW ✓ @ ✓ °F Chlorides ✓ ppm
 (A) Initial Hydrostatic 2308 ☒ Test 1225.00 T-On Location 04:45
 (B) First Initial Flow 21 ☐ Jars T-Started 05:50
 (C) First Final Flow 22 ☐ Safety Joint T-Open 08:00
 (D) Initial Shut-In 30 ☒ Circ Sub N/C T-Pulled 10:15
 (E) Second Initial Flow 20 ☐ Hourly Standby T-Out 12:04
 (F) Second Final Flow 22 ☒ Mileage 28. RT 39.20 Comments
 (G) Final Shut-In 45 ☐ Sampler
 (H) Final Hydrostatic 2176 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer

Initial Open 30 ☐ Extra Packer ☐ Extra Copies
 Initial Shut-In 30 ☐ Extra Recorder Sub Total 8
 Final Flow 30 ☐ Day Standby Total 1414.20
 Final Shut-In 45 ☐ Accessibility MP/DST Disc't
 Sub Total 150.00
1414.20

Approved By [Signature]

Jur Representative Mike Roberts

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.