

**TRILOBITE
TESTING, INC.**

**KCC
OCT 14 2010
CONFIDENTIAL**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th Street
Suite 900
Denver CO 80202

ATTN: Josh Austin

9-19s-31w Scott KS

Eitel #10 D-9-1931

Start Date: 2010.07.21 @ 13:45:27

End Date: 2010.07.21 @ 20:29:57

Job Ticket #: 38741 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2010.08.09 @ 13:12:05 Page 1

RECEIVED

OCT 18 2010

KCC WICHITA

FIML Natural Resources LLC

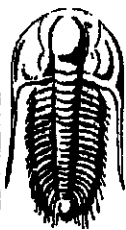
Eitel #10 D-9-1931

9-19s-31w Scott KS

DST # 1

Lansing "I"

2010.07.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources LLC

410 17th Street
Suite 900
Denver CO 80202
ATTN: Josh Austin

Eitel #10 D-9-1931

9-19s-31w Scott KS

Job Ticket: 38741

DST#: 1

Test Start: 2010.07.21 @ 13:45:27

GENERAL INFORMATION:

Formation: **Lansing "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:32:12

Time Test Ended: 20:29:57

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 4192.00 ft (KB) To 4220.00 ft (KB) (TVD)

Total Depth: 4220.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2972.00 ft (KB)

2960.00 ft (CF)

KB to GRVCF: 12.00 ft

Serial #: 6755 Inside

Press@RunDepth: 469.90 psig @ 4194.00 ft (KB)

Start Date: 2010.07.21

End Date:

2010.07.21

Start Time: 13:45:29

End Time:

20:29:57

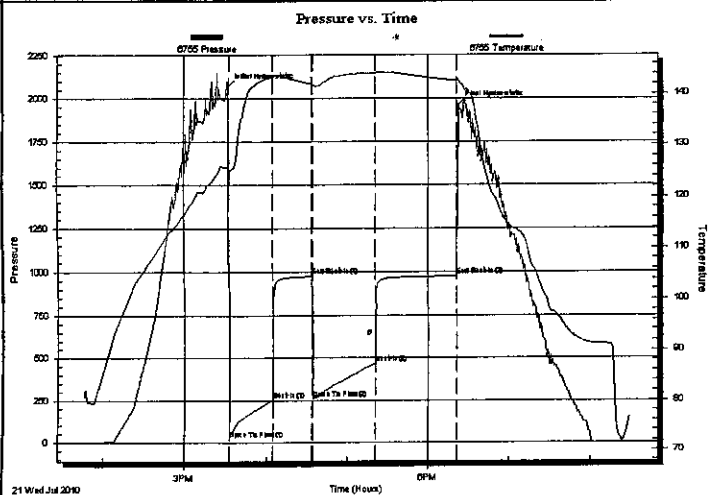
Capacity: 8000.00 psig

Last Calib.: 2010.07.22

Time On Btm: 2010.07.21 @ 15:31:57

Time Off Btm: 2010.07.21 @ 18:22:57

TEST COMMENT: IFP-Good Blow, BOB in 9 Min.
ISI-Dead
FFP-Good Blow, BOB in 11 Min.
FSI-Dead



PRESSURE SUMMARY

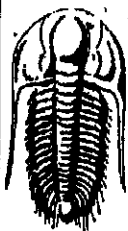
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2067.75	125.61	Initial Hydro-static
1	24.93	125.00	Open To Flow (1)
33	258.91	143.23	Shut-In(1)
63	976.39	141.97	End Shut-In(1)
63	264.89	141.75	Open To Flow (2)
109	469.90	144.02	Shut-In(2)
170	976.51	142.57	End Shut-In(2)
171	1962.06	142.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
870.00	Muddy Water-90%W-10%M	10.01

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

Eitel #10 D-9-1931

410 17th Street
Suite 900
Denver CO 80202
ATTN: Josh Austin

9-19s-31w Scott KS
Job Ticket: 38741 DST#: 1
Test Start: 2010.07.21 @ 13:45:27

Tool Information

Drill Pipe:	Length: 3952.00 ft	Diameter: 3.80 inches	Volume: 55.44 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 2500.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 66000.00 lb
			Total Volume: 56.63 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4192.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	51.00 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			4170.00	
Shut In Tool	5.00			4175.00	
Hydraulic tool	5.00			4180.00	
Safety Joint	2.00			4182.00	
Packer	5.00			4187.00	23.00 Bottom Of Top Packer
Packer	5.00			4192.00	
Stubb	1.00			4193.00	
Perforations	1.00			4194.00	
Recorder	0.00	6755	Inside	4194.00	
Recorder	0.00	8360	Outside	4194.00	
Perforations	23.00			4217.00	
Bullnose	3.00			4220.00	28.00 Bottom Packers & Anchor

Total Tool Length: 51.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

Eitel #10 D-9-1931

410 17th Street
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Denver CO 80202
ATTN: Josh Austin

9-19s-31w Scott KS

Job Ticket: 38741

DST#: 1

Test Start: 2010.07.21 @ 13:45:27

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 1700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity: 38000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
870.00	Muddy Water-90%W-10%M	10.008

Total Length: 870.00 ft

Total Volume: 10.008 bbl

Num Fluid Samples: 0

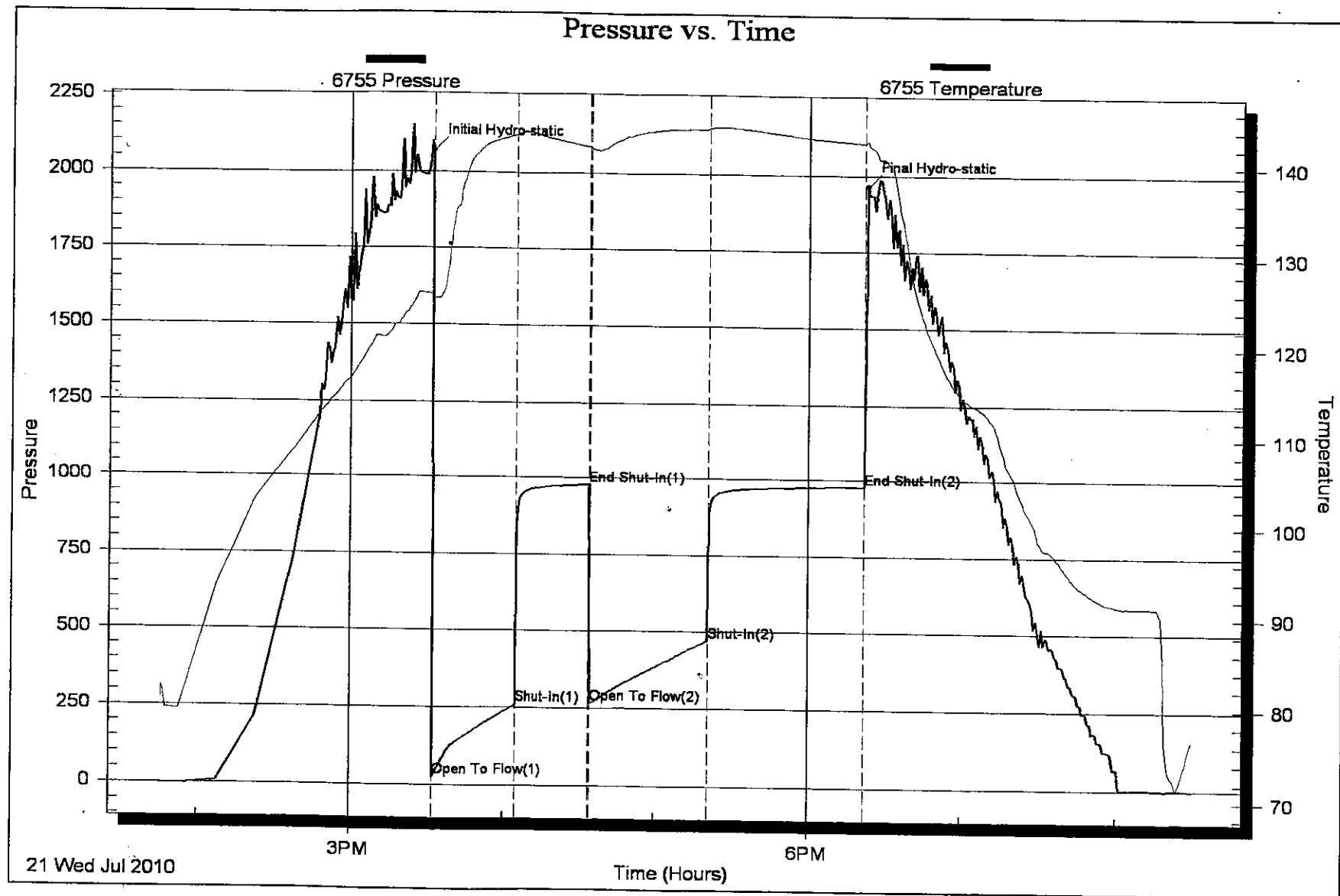
Num Gas Bombs: 0

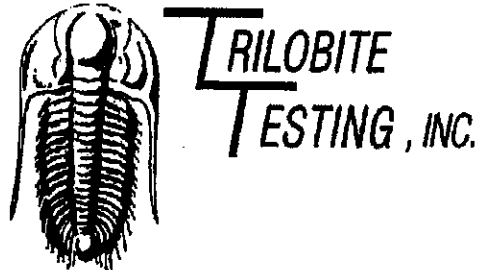
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .160 @ 78F = 38000 chlorides





DRILL STEM TEST REPORT

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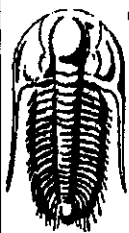
Eitel #10 D-9-1931

Start Date: 2010.07.23 @ 04:32:15

End Date: 2010.07.23 @ 09:53:45

Job Ticket #: 38742 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources LLC

410 17th Street
Suite 900
Denver CO 80202
ATTN: Josh Austin

Eitel #10 D-9-1931

9-19s-31w Scott KS

Job Ticket: 38742

DST#: 2

Test Start: 2010.07.23 @ 04:32:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:16:45

Time Test Ended: 09:53:45

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 4364.00 ft (KB) To 4425.00 ft (KB) (TVD)

Total Depth: 4425.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2972.00 ft (KB)

2960.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6755

Inside

Press@RunDepth: 125.76 psig @ 4399.00 ft (KB)

Start Date: 2010.07.23

End Date:

2010.07.23

Start Time: 04:32:17

End Time:

09:53:45

Capacity: 8000.00 psig

Last Calib.: 2010.07.23

Time On Btm: 2010.07.23 @ 06:16:15

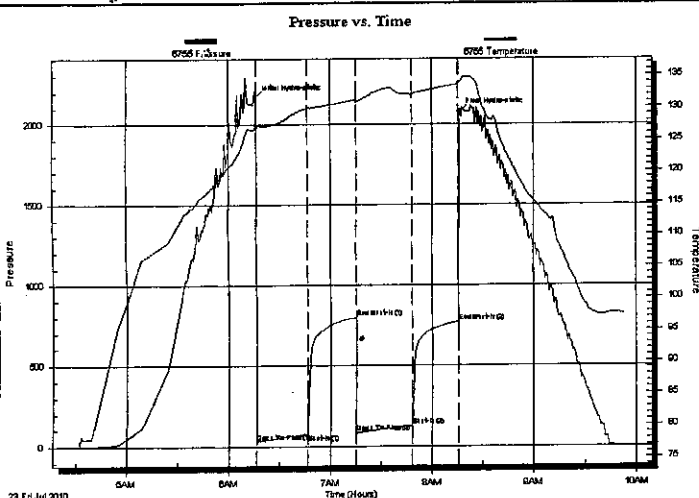
Time Off Btm: 2010.07.23 @ 08:16:00

TEST COMMENT: IFP-Weak Blow, Built to 2-1/2"

ISI-Dead

FFP-Weak Surface Blow After 25 Min.

FSI-Dead



PRESSURE SUMMARY

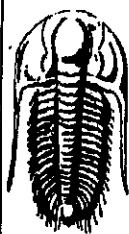
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.15	127.47	Initial Hydro-static
1	30.04	126.50	Open To Flow (1)
31	78.84	129.89	Shut-In(1)
60	797.10	131.23	End Shut-In(1)
60	83.18	130.85	Open To Flow (2)
93	125.76	132.10	Shut-In(2)
120	771.00	133.64	End Shut-In(2)
120	2074.53	134.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	Mudd W/Oil Specks, 1% O-99%M	0.91

Gas Rates

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

TOOL DIAGRAM

FIML Natural Resources LLC

Eitel #10 D-9-1931

410 17th Street
Suite 900
Denver CO 80202
ATTN: Josh Austin

9-19s-31w Scott KS

Job Ticket: 38742

DST#: 2

Test Start: 2010.07.23 @ 04:32:15

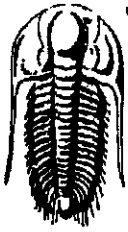
Tool Information

Drill Pipe:	Length: 4111.00 ft	Diameter: 3.80 inches	Volume: 57.67 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose:	62000.00 lb
			Total Volume: 58.86 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4364.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	61.00 ft				
Tool Length:	84.00 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			4342.00	
Shut In Tool	5.00			4347.00	
Hydraulic tool	5.00			4352.00	
*Safety Joint	2.00			4354.00	
Packer -	5.00			4359.00	23.00 Bottom Of Top Packer
Packer	5.00			4364.00	
Stubb	1.00			4365.00	
Perforations	1.00			4366.00	
Change Over Sub	1.00			4367.00	
Blank Spacing	31.00			4398.00	
Change Over Sub	1.00			4399.00	
Recorder	0.00	6755	Inside	4399.00	
Recorder	0.00	8360	Outside	4399.00	
Perforations	23.00			4422.00	
Bullnose	3.00			4425.00	61.00 Bottom Packers & Anchor

Total Tool Length: 84.00



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FLUID SUMMARY

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410 17th Street
Suite 900
Denver CO 80202
ATTN: Josh Austin

9-19s-31w Scott KS

Job Ticket: 38742

DST#: 2

Test Start: 2010.07.23 @ 04:32:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 64.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	Mudd W/OilSpecks, 1%O-99%M	0.910

Total Length: 185.00 ft

Total Volume: 0.910 bbl

Num Fluid Samples: 0

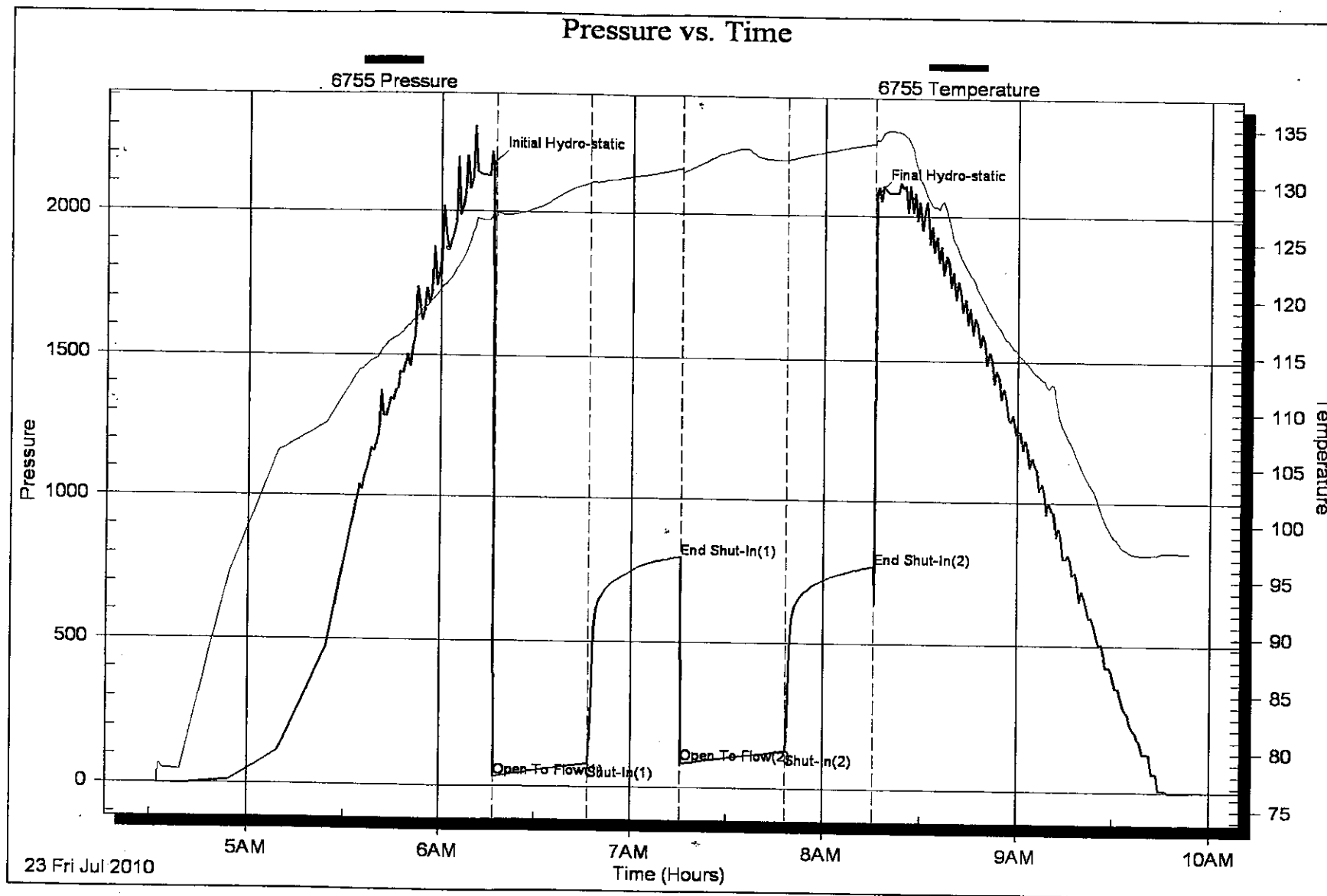
Num Gas Bombs: 0

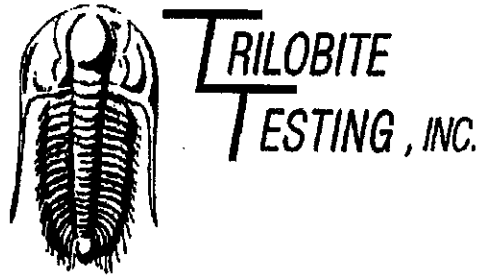
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th Street
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Denver CO 80202

ATTN: Josh Austin

9-19s-31w Scott KS

Eitel #10 D-9-1931

Start Date: 2010.07.24 @ 05:02:15

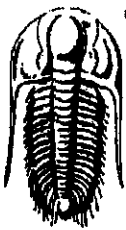
End Date: 2010.07.24 @ 13:04:30

Job Ticket #: 38743 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FML Natural Resources LLC

410 17th Street
Suite 900
Denver CO 80202
ATTN: Josh Austin

Eitel #10 D-9-1931

9-19s-31w Scott KS

Job Ticket: 38743

DST#: 3

Test Start: 2010.07.24 @ 05:02:15

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:57:15

Time Test Ended: 13:04:30

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 4596.00 ft (KB) To 4616.00 ft (KB) (TVD)

Total Depth: 4616.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2972.00 ft (KB)

2960.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6755

Inside

Press@RunDepth: 267.37 psig @ 4598.00 ft (KB)

Start Date: 2010.07.24

End Date:

2010.07.24

Start Time: 05:02:17

End Time:

13:04:30

Capacity: 8000.00 psig

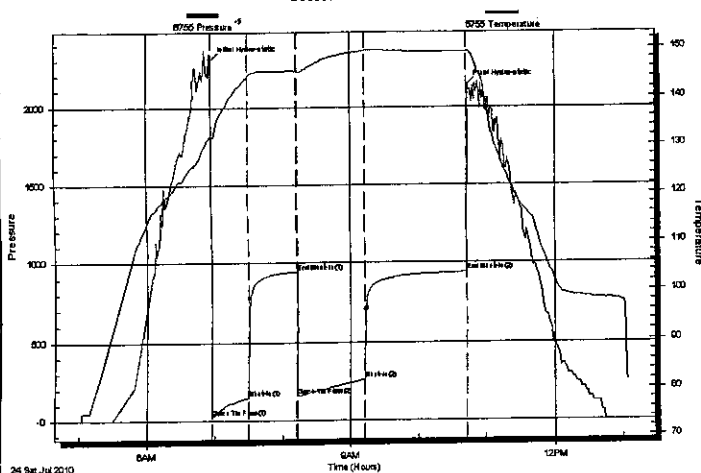
Last Calib.: 2010.07.24

Time On Btm: 2010.07.24 @ 06:56:45

Time Off Btm: 2010.07.24 @ 10:44:00

TEST COMMENT: IFP-Good Blow ,BOB in 13 Min.
ISI-Blow back Built to 2"
FFP-Good Blow ,BOB in 15 Min.
FSI-Blow back Built to 5"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.87	131.83	Initial Hydro-static
1	23.65	131.20	Open To Flow (1)
33	148.70	144.08	Shut-In(1)
76	943.24	145.35	End Shut-In(1)
76	159.63	145.15	Open To Flow (2)
136	267.37	149.45	Shut-In(2)
226	939.11	149.16	End Shut-In(2)
228	2139.76	149.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	Gass Oil 35%G 65%O	2.43
120.00	VSOCMM-3%O-10%W-87%M	1.68
180.00	VSOCMM-3%O-87%W-10%M	2.52
0.00	750' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

Eitel #10 D-9-1931

410 17th Street
Suite 900
Denver CO 80202
ATTN: Josh Austin

9-19s-31w Scott KS

Job Ticket: 38743

DST#: 3

Test Start: 2010.07.24 @ 05:02:15

Tool Information

Drill Pipe:	Length: 4362.00 ft	Diameter: 3.80 inches	Volume: 61.19 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 66000.00 lb
			Total Volume: 62.38 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4596.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	43.00 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			4574.00	
Shut In Tool	5.00			4579.00	
Hydraulic tool	5.00			4584.00	
Safety Joint	2.00			4586.00	
Packer	5.00			4591.00	23.00 Bottom Of Top Packer
Packer	5.00			4596.00	
Stubb	1.00			4597.00	
Perforations	1.00			4598.00	
Recorder	0.00	6755	Inside	4598.00	
Recorder	0.00	8360	Outside	4598.00	
Perforations	15.00			4613.00	
Bullnose	3.00			4616.00	20.00 Bottom Packers & Anchor

Total Tool Length: 43.00



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DRILL STEM TEST REPORT

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ATTN: Josh Austin

9-19s-31w Scott KS

Job Ticket: 38743

DST#: 3

Test Start: 2010.07.24 @ 05:02:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 1700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

34 deg API

22000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	Gas Oil 35%G 65%O	2.434
120.00	VSOCMM-3%O-10%W-87%M	1.683
180.00	VSOCMM-3%O-87%W-10%M	2.525
0.00	750' Gas in Pipe	0.000

Total Length: 630.00 ft

Total Volume: 6.642 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .237 @ 85F = 22000 chlorides

