



DRILL STEM TEST REPORT

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

410 17th St. STE 900
Denver, CO 80202

ATTN: Kurt Talbott

Long #3B-28-1831

28 18s 31w Scott,KS

Start Date: 2012.10.21 @ 04:51:00

End Date: 2012.10.21 @ 12:49:00

Job Ticket #: 042332 DST #: 1

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

Printed: 2012.10.25 @ 10:11:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

28 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

ATTN: Kurt Talbott

Job Ticket: 042332

DST#: 1

Test Start: 2012.10.21 @ 04:51:00

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:38:00

Time Test Ended: 12:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4082.00 ft (KB) To 4130.00 ft (KB) (TVD)

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4130.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8678 Outside

Press @ Run Depth: 681.45 psig @ 4083.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.21

End Date:

2012.10.21

Last Calib.: 2012.10.21

Start Time: 04:51:05

End Time:

12:48:59

Time On Btm: 2012.10.21 @ 07:31:45

Time Off Btm: 2012.10.21 @ 10:31:30

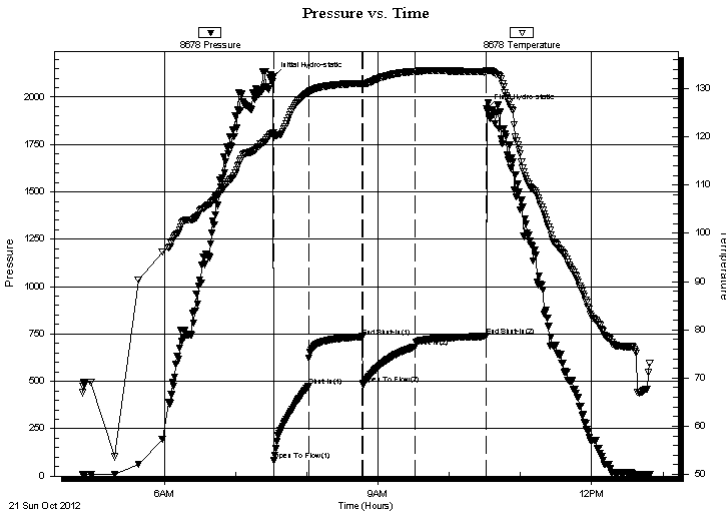
TEST COMMENT: IF: BOB @ 2 3/4 min.

IS: No return.

FF: BOB @ 5 min.

SIS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.02	120.76	Initial Hydro-static
1	81.03	120.03	Open To Flow (1)
30	474.24	129.21	Shut-In(1)
75	735.56	131.08	End Shut-In(1)
76	483.24	130.98	Open To Flow (2)
119	681.45	133.57	Shut-In(2)
179	737.71	133.45	End Shut-In(2)
180	1940.42	133.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1400.00	smcw 3m 97w (Oil spots)	16.29

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

28 18s 31w Scott,KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

Job Ticket: 042332

DST#: 1

ATTN: Kurt Talbott

Test Start: 2012.10.21 @ 04:51:00

Tool Information

Drill Pipe:	Length: 3700.00 ft	Diameter: 3.80 inches	Volume: 51.90 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 53.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4082.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4063.00	
Shut In Tool	5.00			4068.00	
Hydraulic tool	5.00			4073.00	
Packer	5.00			4078.00	20.00 Bottom Of Top Packer
Packer	4.00			4082.00	
Stubb	1.00			4083.00	
Recorder	0.00	8677	Inside	4083.00	
Recorder	0.00	8678	Outside	4083.00	
Perforations	11.00			4094.00	
Change Over Sub	1.00			4095.00	
Drill Pipe	31.00			4126.00	
Change Over Sub	1.00			4127.00	
Bullnose	3.00			4130.00	48.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

28 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

Job Ticket: 042332

DST#: 1

ATTN: Kurt Talbott

Test Start: 2012.10.21 @ 04:51:00

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:

50000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1400.00	smcw 3m 97w (Oil spots)	16.286

Total Length: 1400.00 ft Total Volume: 16.286 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

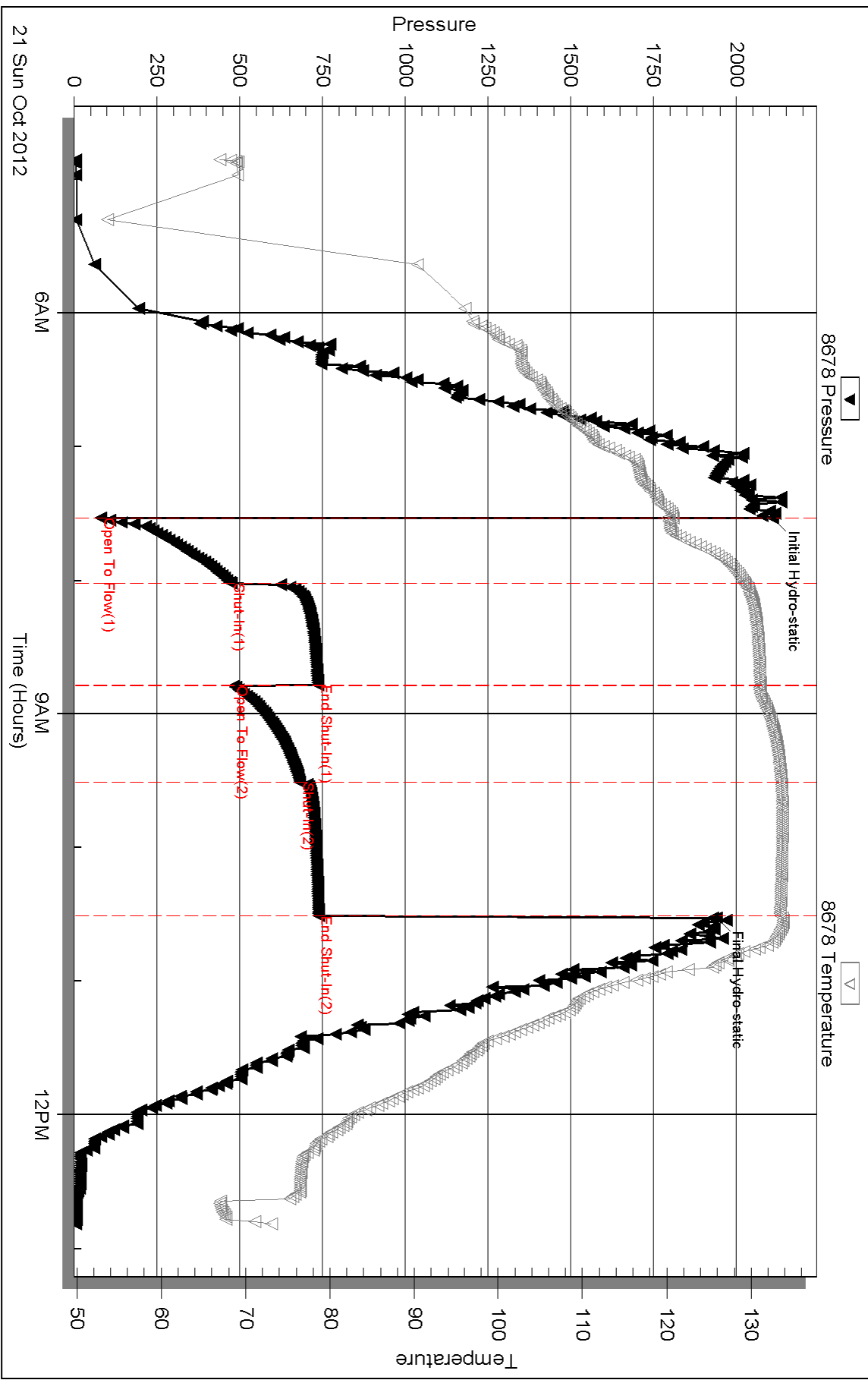
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .175 @ 59F = 50,000ppm

Pressure vs. Time



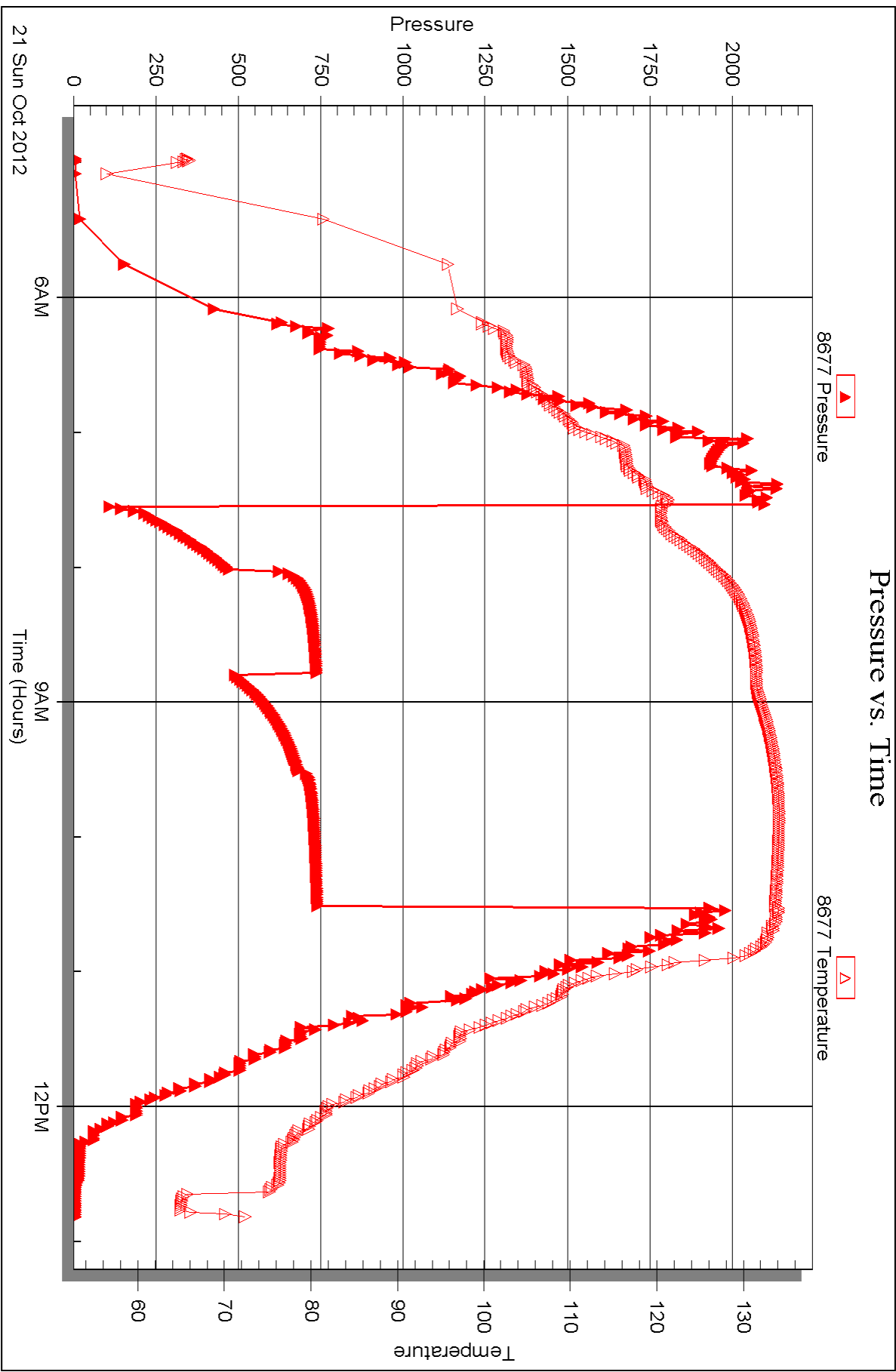
Serial #: 8677

Inside

FIML Natural Resources, LLC

Long #3B-28-1831

DST Test Number: 1





DRILL STEM TEST REPORT

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

410 17th St. STE 900
Denver, CO 80202

ATTN: Kurt Talbott

Long #3B-28-1831

28 18s 31w Scott,KS

Start Date: 2012.10.22 @ 00:32:00

End Date: 2012.10.22 @ 08:10:45

Job Ticket #: 042333 DST #: 2

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

Printed: 2012.10.25 @ 10:08:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

28 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

ATTN: Kurt Talbott

Job Ticket: 042333

DST#: 2

Test Start: 2012.10.22 @ 00:32:00

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:31:15

Time Test Ended: 08:10:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4150.00 ft (KB) To 4205.00 ft (KB) (TVD)

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4205.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8678 Outside

Press @ RunDepth: 391.33 psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.22 End Date: 2012.10.22

Last Calib.: 2012.10.22

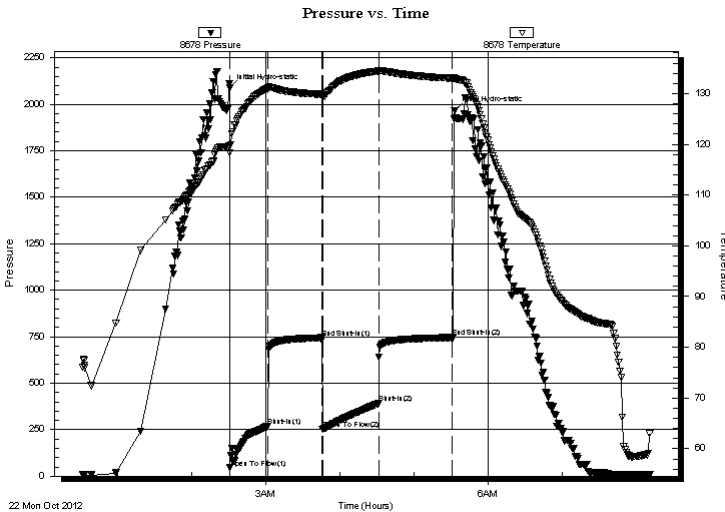
Start Time: 00:32:05 End Time: 08:10:44

Time On Btm: 2012.10.22 @ 02:31:00

Time Off Btm: 2012.10.22 @ 05:33:00

TEST COMMENT: IF: BOB @ 12 min.
IS: No return.
FF: BOB @ 17 min.
IS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.28	119.62	Initial Hydro-static
1	44.86	118.37	Open To Flow (1)
31	268.87	131.09	Shut-In(1)
75	744.28	129.81	End Shut-In(1)
75	250.15	129.66	Open To Flow (2)
121	391.33	134.41	Shut-In(2)
180	745.31	132.99	End Shut-In(2)
182	1964.47	132.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
730.00	mcw 5m 95w (oil spots)	6.89

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

28 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

Job Ticket: 042333

DST#: 2

ATTN: Kurt Talbott

Test Start: 2012.10.22 @ 00:32:00

Tool Information

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 55.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4150.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 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			4131.00	
Shut In Tool	5.00			4136.00	
Hydraulic tool	5.00			4141.00	
Packer	5.00			4146.00	20.00 Bottom Of Top Packer
Packer	4.00			4150.00	
Stubb	1.00			4151.00	
Recorder	0.00	8677	Inside	4151.00	
Recorder	0.00	8678	Outside	4151.00	
Perforations	18.00			4169.00	
Change Over Sub	1.00			4170.00	
Drill Pipe	31.00			4201.00	
Change Over Sub	1.00			4202.00	
Bullnose	3.00			4205.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

28 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

Job Ticket: 042333

DST#: 2

ATTN: Kurt Talbott

Test Start: 2012.10.22 @ 00:32:00

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:

54000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
730.00	mcw 5m 95w (oil spots)	6.888

Total Length: 730.00 ft Total Volume: 6.888 bbl

Num Fluid Samples: 0

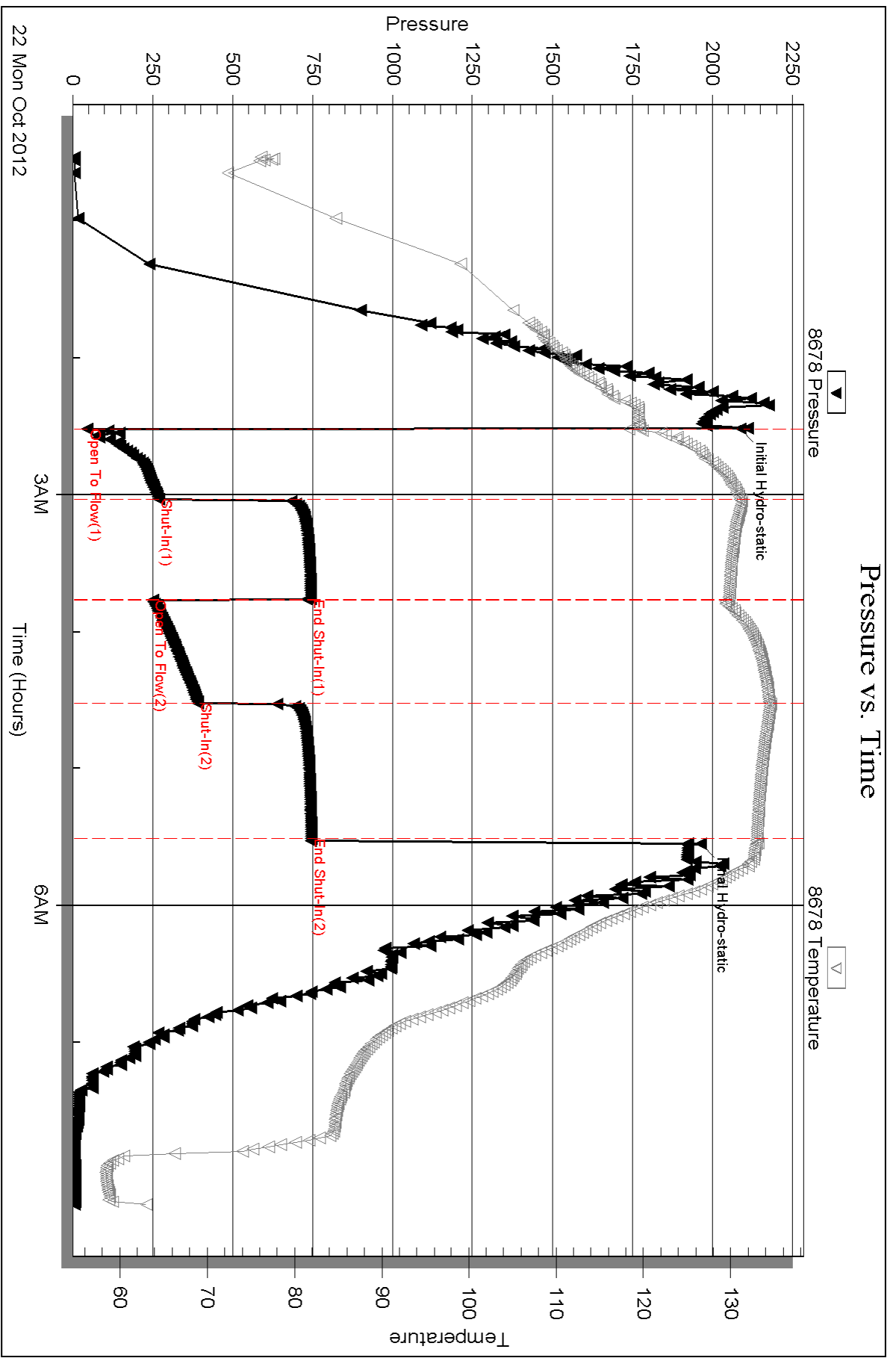
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .160 @ 60F = 54000ppm



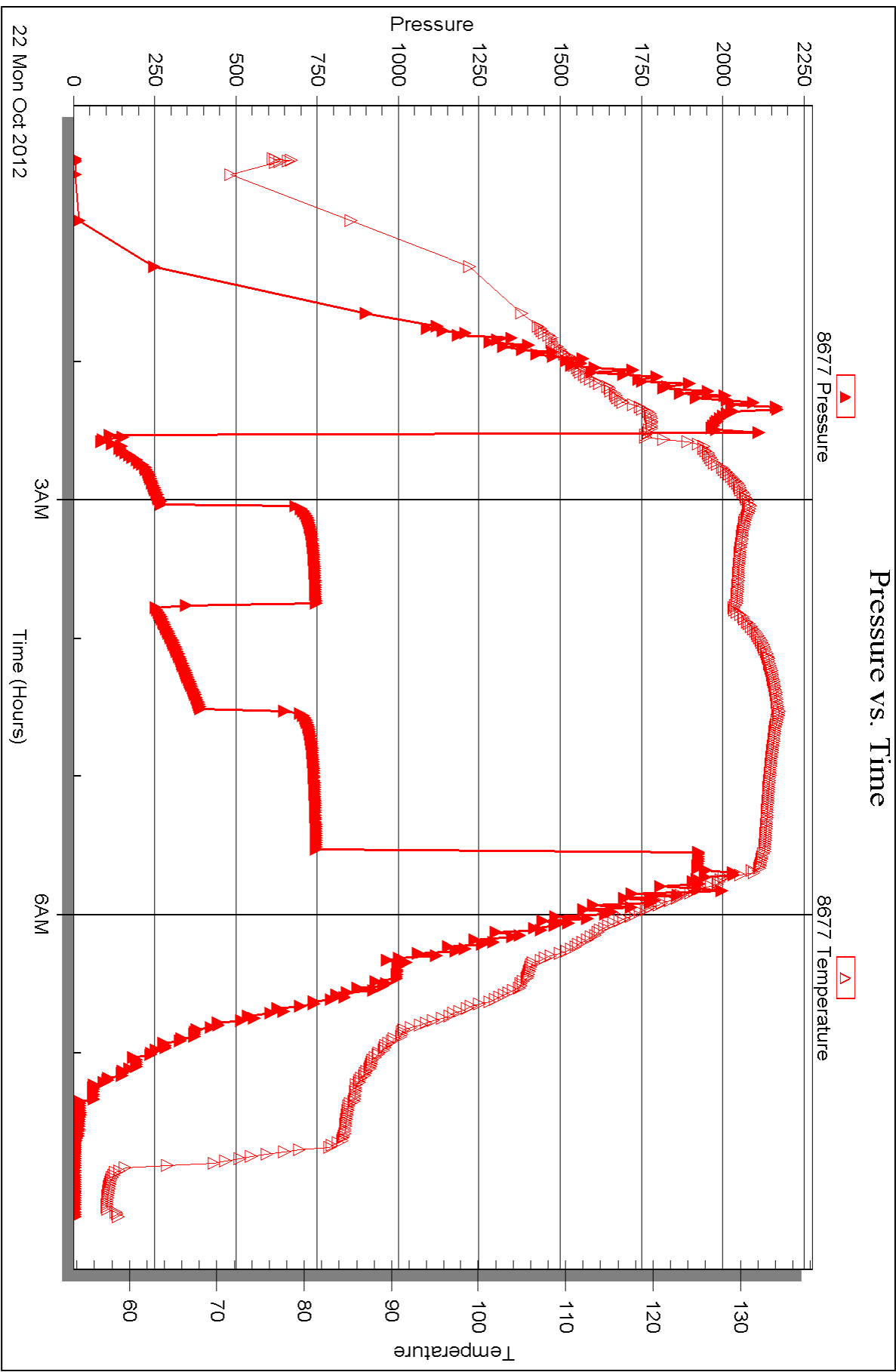
Serial #: 8677

Inside

FIML Natural Resources, LLC

Long #3B-28-1831

DST Test Number: 2



22 Mon Oct 2012

3AM

Time (Hours)

6AM

Pressure

Temperature

8677 Pressure

8677 Temperature



DRILL STEM TEST REPORT

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

410 17th St. STE 900
Denver, CO 80202

ATTN: Kurt Talbott

Long #3B-28-1831

28 18s 31w Scott,KS

Start Date: 2012.10.22 @ 23:37:00

End Date: 2012.10.23 @ 07:15:17

Job Ticket #: 042334 DST #: 3

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

Printed: 2012.10.25 @ 10:07:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

28 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

ATTN: Kurt Talbott

Job Ticket: 042334

DST#: 3

Test Start: 2012.10.22 @ 23:37:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:01:18

Time Test Ended: 07:15:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4386.00 ft (KB) To 4370.00 ft (KB) (TVD)

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4370.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8678 Outside

Press @ Run Depth: 45.20 psig @ 4287.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.22

End Date:

2012.10.23

Last Calib.: 2012.10.22

Start Time: 23:37:05

End Time:

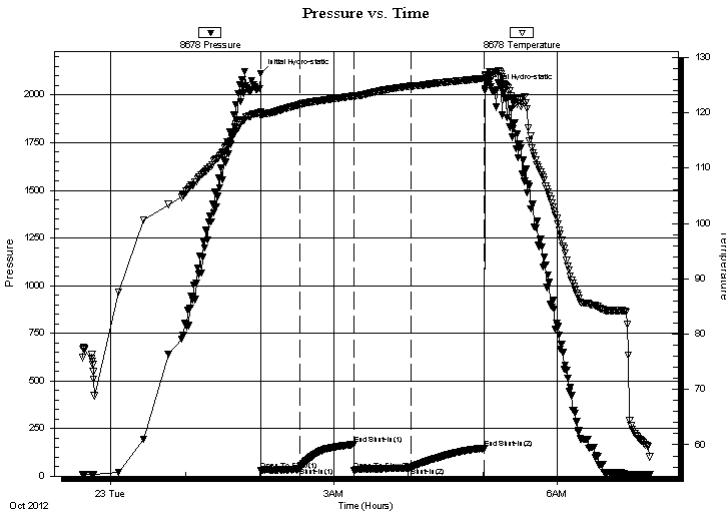
07:15:18

Time On Btm: 2012.10.23 @ 02:00:48

Time Off Btm: 2012.10.23 @ 05:02:02

TEST COMMENT: IF: 6" blow.
IS: No return.
FF: 6" blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	212.47	120.10	Initial Hydro-static
1	29.54	119.51	Open To Flow (1)
32	43.81	121.45	Shut-In(1)
76	167.19	123.03	End Shut-In(1)
76	30.91	122.96	Open To Flow (2)
121	45.20	124.79	Shut-In(2)
181	144.16	126.21	End Shut-In(2)
182	2032.45	126.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	mud 100m (oil spots)	0.39

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

28 18s 31w Scott,KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

Job Ticket: 042334

DST#: 3

ATTN: Kurt Talbott

Test Start: 2012.10.22 @ 23:37:00

Tool Information

Drill Pipe:	Length: 3919.00 ft	Diameter: 3.80 inches	Volume: 54.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 56.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4286.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	104.00 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			4267.00	
Shut In Tool	5.00			4272.00	
Hydraulic tool	5.00			4277.00	
Packer	5.00			4282.00	20.00 Bottom Of Top Packer
Packer	4.00			4286.00	
Stubb	1.00			4287.00	
Recorder	0.00	8677	Inside	4287.00	
Recorder	0.00	8678	Outside	4287.00	
Perforations	15.00			4302.00	
Change Over Sub	1.00			4303.00	
Drill Pipe	63.00			4366.00	
Change Over Sub	1.00			4367.00	
Bullnose	3.00			4370.00	84.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

28 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

Job Ticket: 042334

DST#: 3

ATTN: Kurt Talbott

Test Start: 2012.10.22 @ 23:37:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 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 bbbl
80.00	mud 100m (oil spots)	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

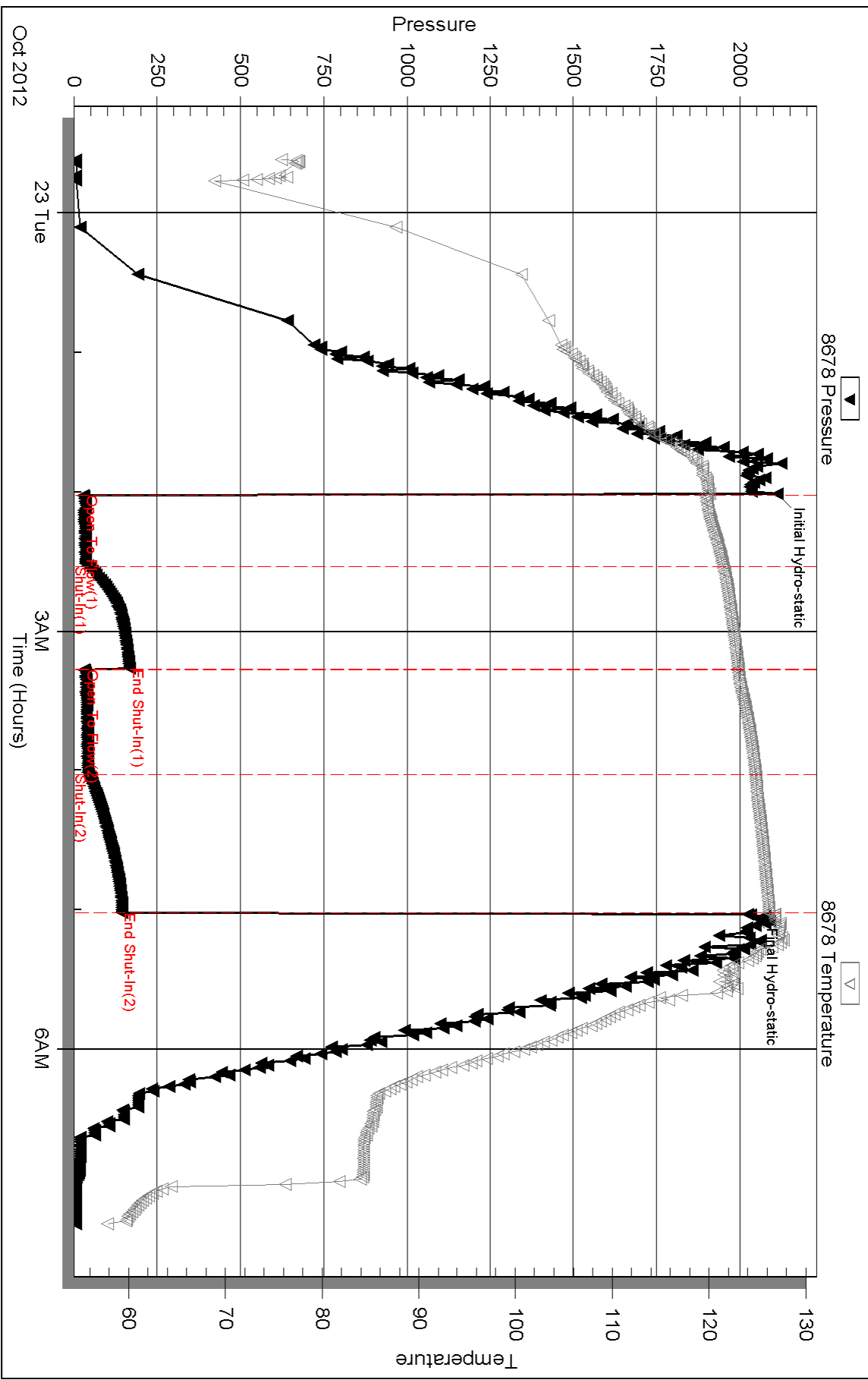
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

410 17th St. STE 900
Denver, CO 80202

ATTN: Kurt Talbott

Long #3B-28-1831

28 18s 31w Scott,KS

Start Date: 2012.10.24 @ 03:32:00

End Date: 2012.10.24 @ 10:05:00

Job Ticket #: 042335 DST #: 4

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

Printed: 2012.10.25 @ 10:04:19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

28 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

ATTN: Kurt Talbott

Job Ticket: 042335

DST#: 4

Test Start: 2012.10.24 @ 03:32:00

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:35:45

Time Test Ended: 10:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4560.00 ft (KB) To 4588.00 ft (KB) (TVD)

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4588.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8678 Outside

Press @ Run Depth: 1023.83 psig @ 4561.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.24

End Date:

2012.10.24

Last Calib.: 2012.10.24

Start Time: 03:32:05

End Time:

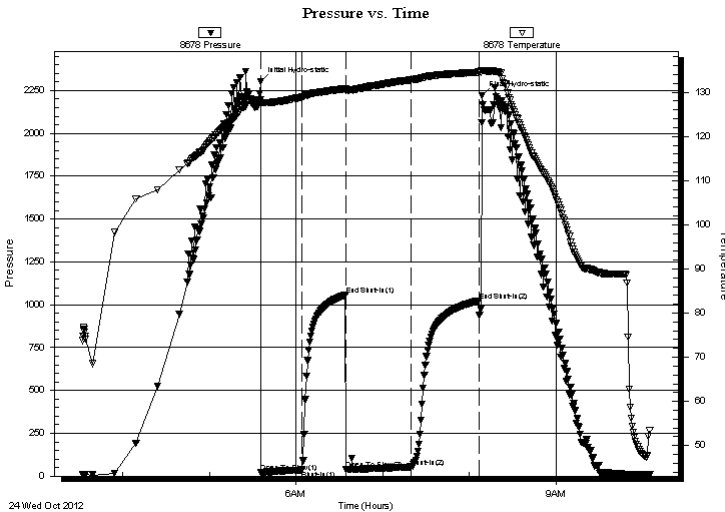
10:04:59

Time On Btm: 2012.10.24 @ 05:35:30

Time Off Btm: 2012.10.24 @ 08:08:45

TEST COMMENT: IF: Surface blow, died @ 6 min.
IS: No return.
FF: No blow. Flushed tool, blow died.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.44	128.34	Initial Hydro-static
1	21.94	127.44	Open To Flow (1)
29	35.62	128.88	Shut-In(1)
59	1057.39	130.79	End Shut-In(1)
59	37.28	130.32	Open To Flow (2)
104	53.83	132.78	Shut-In(2)
151	1023.83	134.53	End Shut-In(2)
154	2218.40	134.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 5o 95m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

28 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

Job Ticket: 042335

DST#: 4

ATTN: Kurt Talbott

Test Start: 2012.10.24 @ 03:32:00

Tool Information

Drill Pipe:	Length: 4200.00 ft	Diameter: 3.80 inches	Volume: 58.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 60.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4560.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4541.00	
Shut In Tool	5.00			4546.00	
Hydraulic tool	5.00			4551.00	
Packer	5.00			4556.00	20.00 Bottom Of Top Packer
Packer	4.00			4560.00	
Stubb	1.00			4561.00	
Recorder	0.00	8677	Inside	4561.00	
Recorder	0.00	8678	Outside	4561.00	
Perforations	24.00			4585.00	
Bullnose	3.00			4588.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

28 18s 31w Scott,KS

410 17th St. STE 900
Denver, CO 80202

Long #3B-28-1831

Job Ticket: 042335

DST#: 4

ATTN: Kurt Talbott

Test Start: 2012.10.24 @ 03:32:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	ocm 5o 95m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

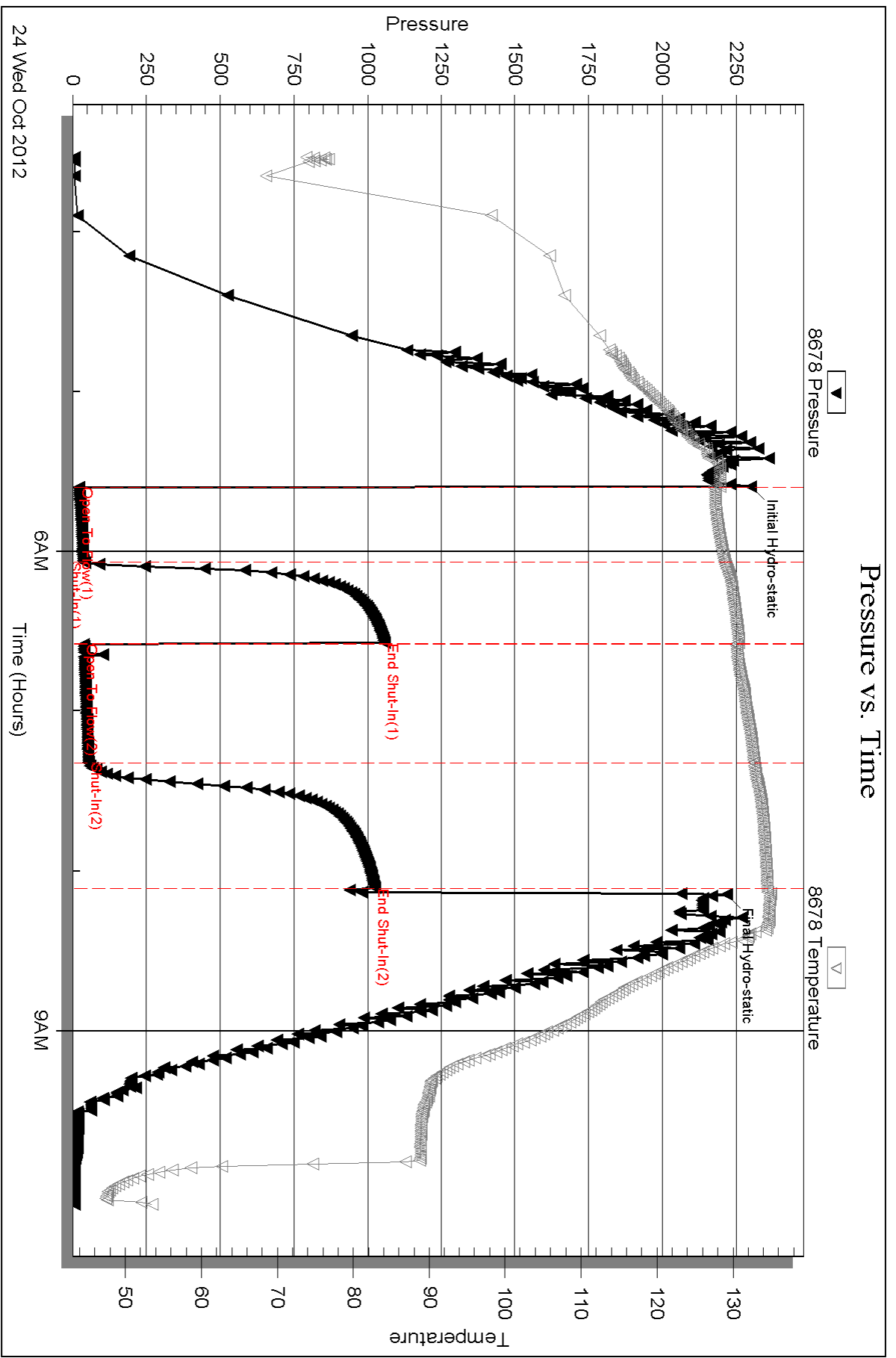
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Mud had a sulfur smell to it and appeared watery, grind out showed no visible water.



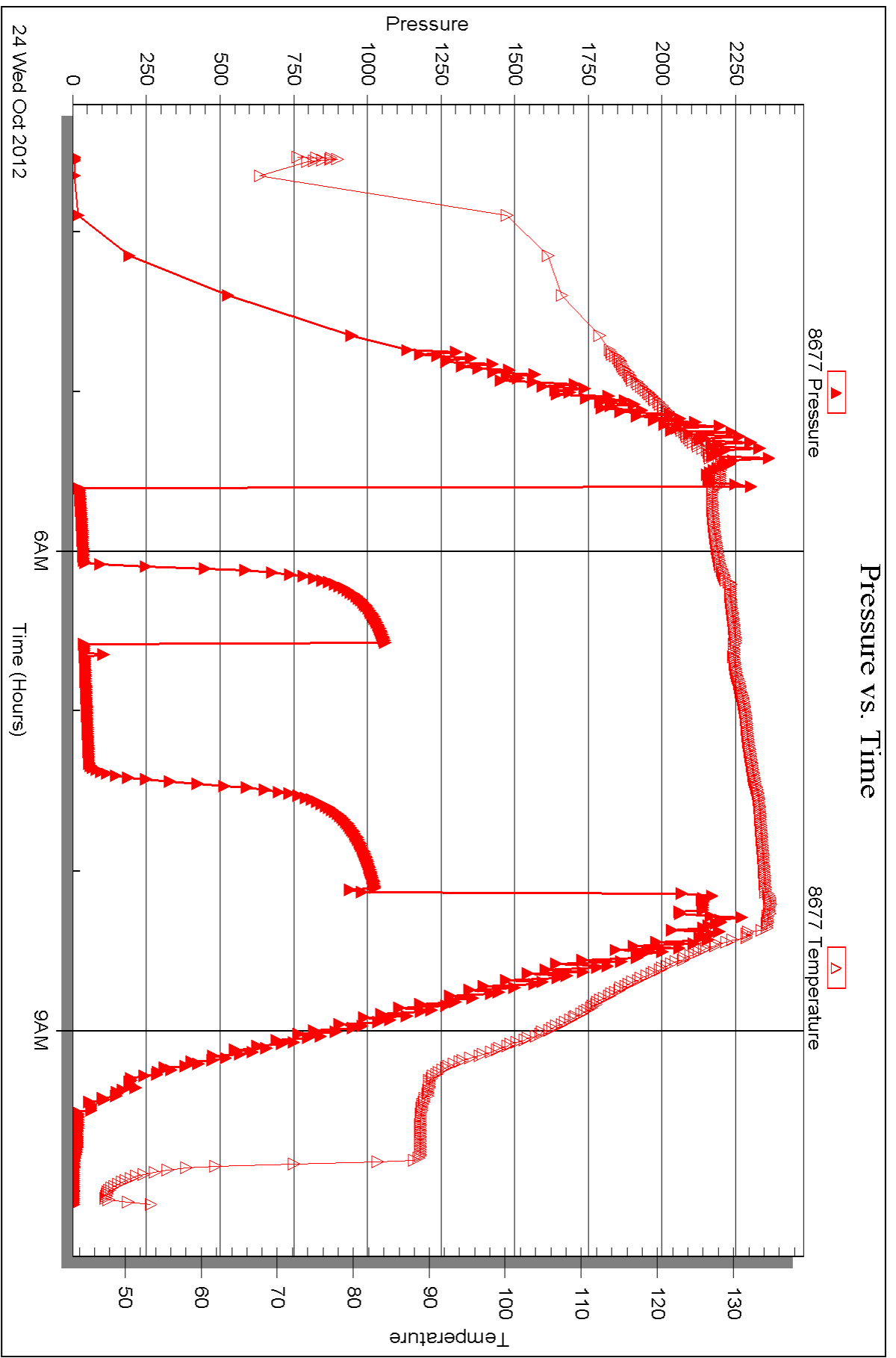
Serial #: 8677

Inside

FIML Natural Resources, LLC

Long #3B-28-1831

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 042335

Printed: 2012.10.25 @ 10:04:24



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042332

4/10

Well Name & No. Long 3B-28-1831 Test No. 1 Date 10/21/12
 Company FIML Natural Resources, LLC Elevation 2956 KB 2946 GL
 Address 410 17th St. STE 900 Denver, Co 80202
 Co. Rep / Geo. Gary Duke Rig H2 #1
 Location: Sec. 28 Twp. 28-18s Rge. 31W Co. Scott State Ks

Interval Tested 4082 4130 Zone Tested Lansing 'H'
 Anchor Length 48' Drill Pipe Run 3700 Mud Wt. 9.2
 Top Packer Depth 4077 Drill Collars Run 368 Vis 50
 Bottom Packer Depth 4082 Wt. Pipe Run 8 WL 9.6
 Total Depth 4130 Chlorides 2400 ppm System LCM 16# (spotted mud)
 Blow Description IF: BOB@ 2 min 45 sec.
ISI: No return.
FF: BOB@ 5 min.
FSI: No return.

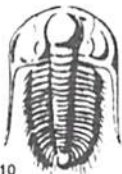
Rec	Feet of	%gas	%oil	%water	%mud
<u>1440</u>	<u>SMCW</u>		<u>97</u>	<u>3</u>	
	<u>(OIL SPOTS)</u>				

Rec Total 1440 BHT 134 Gravity - API RW .175 @ 59 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic 2109 Test 1250 T-On Location 0400
 (B) First Initial Flow 81 Jars T-Started 0457
 (C) First Final Flow 474 Safety Joint T-Open 0732
 (D) Initial Shut-In 736 Circ Sub N/C T-Pulled 1032
 (E) Second Initial Flow 483 Hourly Standby T-Out 1249
 (F) Second Final Flow 681 Mileage 17 RT 26.35 Comments _____
 (G) Final Shut-In 738 Sampler _____
 (H) Final Hydrostatic 1940 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility 150
 Sub Total 1426.35

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Copies _____
 Final Shut-In 60 Sub Total 0
 Total 1426.35
 MP/DST Disc't _____

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

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042333

4/10

Well Name & No. Long 3B-28-1831 Test No. 2 Date 10/22/12
 Company FIML Natural Resources, LLC Elevation 2956 KB 2946 GL
 Address 410 17th St. STE 900 Denver, Co 80202
 Co. Rep / Geo. Gary Dake Rig H2 #1
 Location: Sec. 28 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4050 - 4205 Zone Tested LKC
 Anchor Length 55' Drill Pipe Run 3792 Mud Wt. 9.0
 Top Packer Depth 4145 Drill Collars Run 368 Vis 46
 Bottom Packer Depth 4150 Wt. Pipe Run Ø WL 9.6
 Total Depth 4205 Chlorides 2400 ppm System LCM 12[#]

Blow Description IF: BOB@ 12 min
ISI: No return.
FF: BOB@ 17 min.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>730</u>	<u>mcw (oil spots on top)</u>		<u>95</u>	<u>5</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 730' BHT - Gravity - API RW 1160 @ 60 ° F Chlorides 54000 ppm

(A) Initial Hydrostatic <u>2086</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0001</u>
(B) First Initial Flow <u>45</u>	<input type="checkbox"/> Jars	T-Started <u>0032</u>
(C) First Final Flow <u>269</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0232</u>
(D) Initial Shut-In <u>744</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/L</u>	T-Pulled <u>0552</u>
(E) Second Initial Flow <u>250</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0811</u>
(F) Second Final Flow <u>391</u>	<input checked="" type="checkbox"/> Mileage <u>17 N/T</u> 26.35	Comments
(G) Final Shut-In <u>745</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1964</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1426.35</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>1426.35</u>	

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042334

4/10

Well Name & No. Long 3B-28-1831 Test No. 3 Date 10/23/12
 Company FIML Natural Resources, LLC Elevation 2956 KB 2946 GL
 Address 410 17th St, STE 900 Denver, Co 80202
 Co. Rep / Geo. Gary Duke Rig H2 #1
 Location: Sec. 28 Twp. 18s Rge. 31 w Co. Scott State Ks

Interval Tested 4286 - 4370 Zone Tested Marmaton
 Anchor Length 84 Drill Pipe Run 3919 Mud Wt. 9.3
 Top Packer Depth 4281 Drill Collars Run 368 Vis 55
 Bottom Packer Depth 4286 Wt. Pipe Run Ø WL 10.0
 Total Depth 4370 Chlorides 3,000 ppm System LCM 12, #
 Blow Description IF: 6" blow
ISI: No return
FF: 6" blow
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>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 80 BHT 127 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2112 Test 1250 T-On Location 2315 10/23/12
 (B) First Initial Flow 30 Jars T-Started 2337
 (C) First Final Flow 44 Safety Joint T-Open 0205
 (D) Initial Shut-In 167 Circ Sub 14 T-Pulled 0505
 (E) Second Initial Flow 31 Hourly Standby T-Out 0715
 (F) Second Final Flow 45 Mileage 17 R/L 26.35 Comments _____
 (G) Final Shut-In 144 Sampler _____
 (H) Final Hydrostatic 2032 Straddle Ruined Shale Packer _____
 Shale Packer Ruined Packer _____
 Extra Packer Extra Copies _____
 Initial Open 30 Extra Recorder Sub Total 0
 Initial Shut-In 45 Day Standby Total 1426.35
 Final Flow 45 Accessibility 150 MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1426.35

Approved By [Signature]

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042335

4/10

Well Name & No. Long 3B - 28 - 1831 Test No. 4 Date 10/24/12
 Company FIML Natural Resources, LLC Elevation 2956 KB 2946 GL
 Address 410 17th St STE 900 Denver, Co 80202
 Co. Rep / Geo. Gary Duke Rig H2 #1
 Location: Sec. 28 Twp. 18S Rge. 31W Co. Scott State Ks

Interval Tested 4560 4588 Zone Tested Spergen
 Anchor Length 28 Drill Pipe Run 4200 Mud Wt. 9.1
 Top Packer Depth 4555 Drill Collars Run 366 Vis 57
 Bottom Packer Depth 4560 Wt. Pipe Run 0 WL 5.6
 Total Depth 4588 Chlorides 2600 ppm System LCM 10 #

Blow Description IF: Blow died @ 6 min.
ISI: No return.
FF: No blow, FLUSH, blow died.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
20	0cm		5	95	
	mud had sulfur smell				
	and appeared watery				
	No visible water after grindout				

Rec Total 20 BHT 135 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2300 Test 1250 T-On Location 0315
 (B) First Initial Flow 22 ~~NO~~ T-Started 0332
 (C) First Final Flow 36 Safety Joint T-Open 0805 535
 (D) Initial Shut-In 1057 Circ Sub 4E T-Pulled 0805
 (E) Second Initial Flow 37 Hourly Standby T-Out 10:05
 (F) Second Final Flow 54 Mileage 17.5/26.35 Comments _____
 (G) Final Shut-In 1024 Sampler _____
 (H) Final Hydrostatic 2218 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1426.35
 Accessibility 150 MP/DST Disc't _____
 Sub Total 1426.35

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

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