



DRILL STEM TEST REPORT

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

410 17th St. STE 900
Denver, CO 80202

ATTN: Jim Musgrove

Suppes #10B-33-1831

33 18s 31w Scott,KS

Start Date: 2012.10.10 @ 10:11:05

End Date: 2012.10.10 @ 14:59:59

Job Ticket #: 49758 DST #: 1

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

Printed: 2012.10.17 @ 13:33:12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49758

DST#: 1

ATTN: Jim Musgrove

Test Start: 2012.10.10 @ 10:11:05

GENERAL INFORMATION:

Formation: **LKC J- K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:40:15

Time Test Ended: 14:59:59

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4223.00 ft (KB) To 4310.00 ft (KB) (TVD)

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8677 Inside

Press @ Run Depth: psig @ 4224.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.10 End Date: 2012.10.10

Last Calib.: 2012.10.10

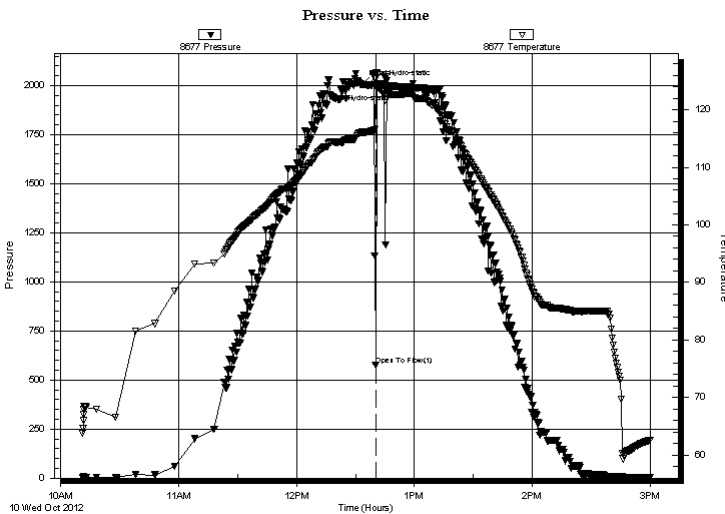
Start Time: 10:11:05 End Time: 14:59:59

Time On Btm: 2012.10.10 @ 12:33:15

Time Off Btm: 2012.10.10 @ 12:50:45

TEST COMMENT: Miss-run - Packer failure.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2005.73	116.08	Initial Hydro-static
7	574.65	125.41	Open To Flow (1)
18	1996.31	122.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	mud 100m	1.72

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49758

DST#: 1

ATTN: Jim Musgrove

Test Start: 2012.10.10 @ 10:11:05

Tool Information

Drill Pipe:	Length: 3862.00 ft	Diameter: 3.80 inches	Volume: 54.17 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: 75000.00 lb
			<u>Total Volume: 55.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4223.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	107.00 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			4204.00	
Shut In Tool	5.00			4209.00	
Hydraulic tool	5.00			4214.00	
Packer	5.00			4219.00	20.00 Bottom Of Top Packer
Packer	4.00			4223.00	
Stubb	1.00			4224.00	
Recorder	0.00	8677	Inside	4224.00	
Recorder	0.00	8522	Outside	4224.00	
Perforations	18.00			4242.00	
Change Over Sub	1.00			4243.00	
Drill Pipe	63.00			4306.00	
Change Over Sub	1.00			4307.00	
Bullnose	3.00			4310.00	87.00 Bottom Packers & Anchor

Total Tool Length: 107.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49758

DST#: 1

ATTN: Jim Musgrove

Test Start: 2012.10.10 @ 10:11:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	mud 100m	1.721

Total Length: 350.00 ft Total Volume: 1.721 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

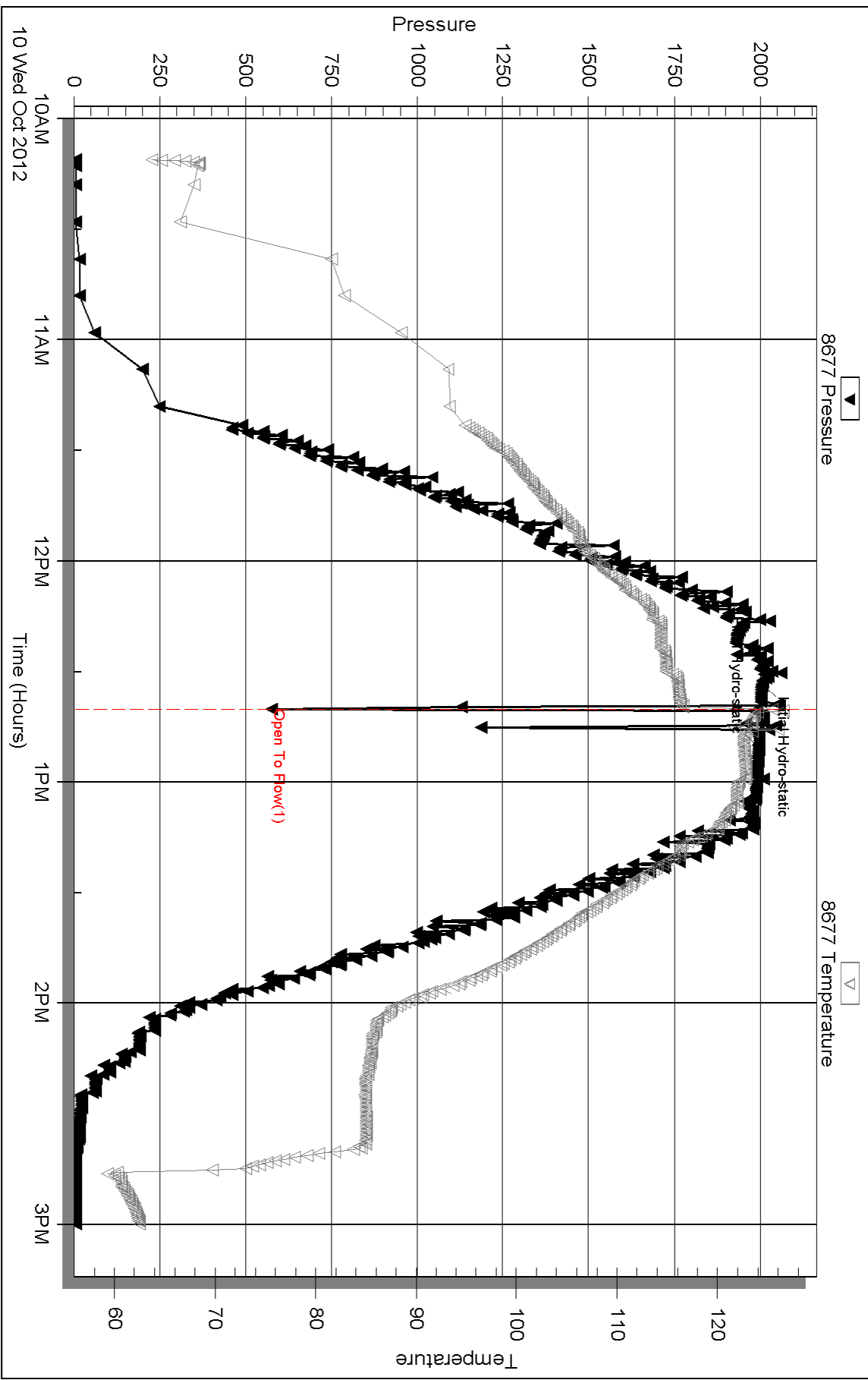
Serial #:

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: Jim Musgrove

Suppes #10B-33-1831

33 18s 31w Scott,KS

Start Date: 2012.10.10 @ 10:11:00

End Date: 2012.10.10 @ 22:20:45

Job Ticket #: 49759 DST #: 2

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

Printed: 2012.10.17 @ 13:31:59



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

ATTN: Jim Musgrove

Job Ticket: 49759

DST#: 2

Test Start: 2012.10.10 @ 10:11:00

GENERAL INFORMATION:

Formation: **LKC K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:11:15

Time Test Ended: 22:20:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4246.00 ft (KB) To 4310.00 ft (KB) (TVD)

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ RunDepth: 651.49 psig @ 4247.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.10 End Date: 2012.10.10

Last Calib.: 2012.10.10

Start Time: 14:57:29 End Time: 22:20:44

Time On Btm: 2012.10.10 @ 17:11:00

Time Off Btm: 2012.10.10 @ 20:02:00

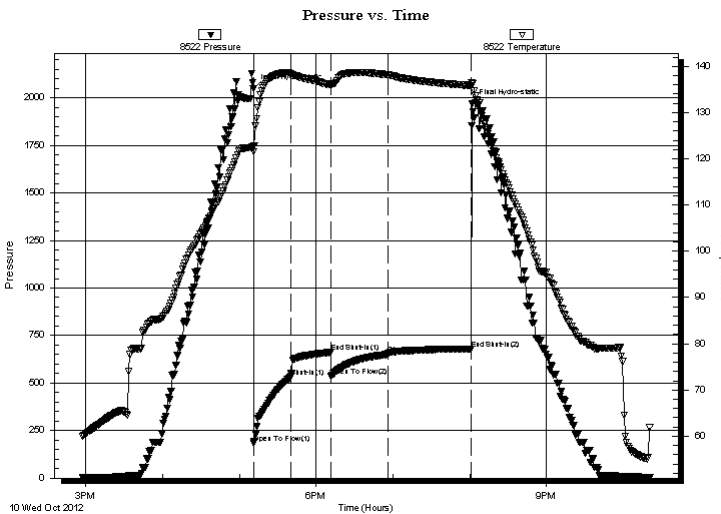
TEST COMMENT: IF: BOB @ 1 1/4 min.

IS: No return.

FF: BOB @ 5 min.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.25	122.56	Initial Hydro-static
1	183.65	121.45	Open To Flow (1)
30	532.76	138.30	Shut-In(1)
61	662.09	136.00	End Shut-In(1)
61	536.99	135.91	Open To Flow (2)
106	651.49	138.14	Shut-In(2)
171	680.10	135.84	End Shut-In(2)
171	1968.81	136.39	Final Hydro-static

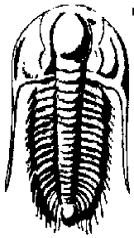
Recovery

Length (ft)	Description	Volume (bbl)
1440.00	smcw 5m 95w (slight oil spots)	16.85

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49759 **DST#: 2**

ATTN: Jim Musgrove

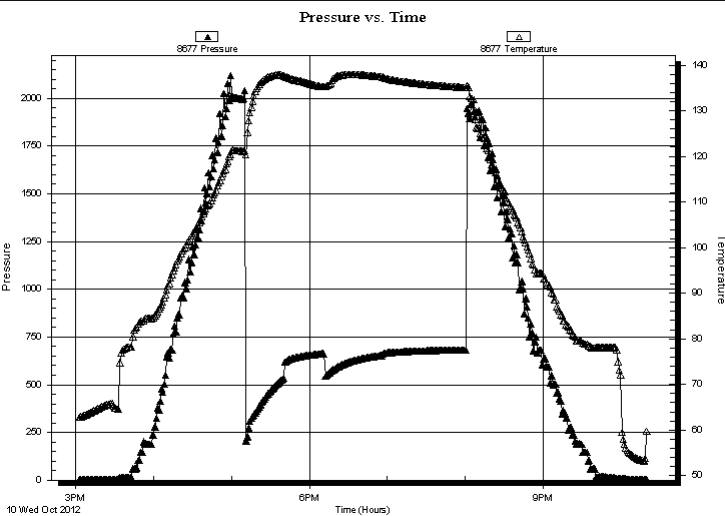
Test Start: 2012.10.10 @ 10:11:00

GENERAL INFORMATION:

Formation: LKC K-L			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 17:11:15		Tester: Bradley Walter	
Time Test Ended: 22:20:45		Unit No: 53	
Interval: 4246.00 ft (KB) To 4310.00 ft (KB) (TVD)		Reference Elevations: 2956.00 ft (KB)	
Total Depth: 4310.00 ft (KB) (TVD)		2946.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 10.00 ft	

Serial #: 8677	Inside				
Press @ Run Depth:	psig @	4247.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.10.10	End Date:	2012.10.10	Last Calib.:	2012.10.10
Start Time:	15:03:14	End Time:	22:19:44	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: BOB @ 1 1/4 min.
IS: No return.
FF: BOB @ 5 min.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1440.00	smcw 5m 95w (slight oil spots)	16.85

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49759

DST#: 2

ATTN: Jim Musgrove

Test Start: 2012.10.10 @ 10:11:00

Tool Information

Drill Pipe:	Length: 3862.00 ft	Diameter: 3.80 inches	Volume: 54.17 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: 55.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4246.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	84.00 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			4227.00	
Shut In Tool	5.00			4232.00	
Hydraulic tool	5.00			4237.00	
Packer	5.00			4242.00	20.00 Bottom Of Top Packer
Packer	4.00			4246.00	
Stubb	1.00			4247.00	
Recorder	0.00	8677	Inside	4247.00	
Recorder	0.00	8522	Outside	4247.00	
Perforations	27.00			4274.00	
Change Over Sub	1.00			4275.00	
Drill Pipe	31.00			4306.00	
Change Over Sub	1.00			4307.00	
Bullnose	3.00			4310.00	64.00 Bottom Packers & Anchor

Total Tool Length: 84.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49759

DST#: 2

ATTN: Jim Musgrove

Test Start: 2012.10.10 @ 10:11:00

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:

45000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1440.00	smcw 5m 95w (slight oil spots)	16.847

Total Length: 1440.00 ft Total Volume: 16.847 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

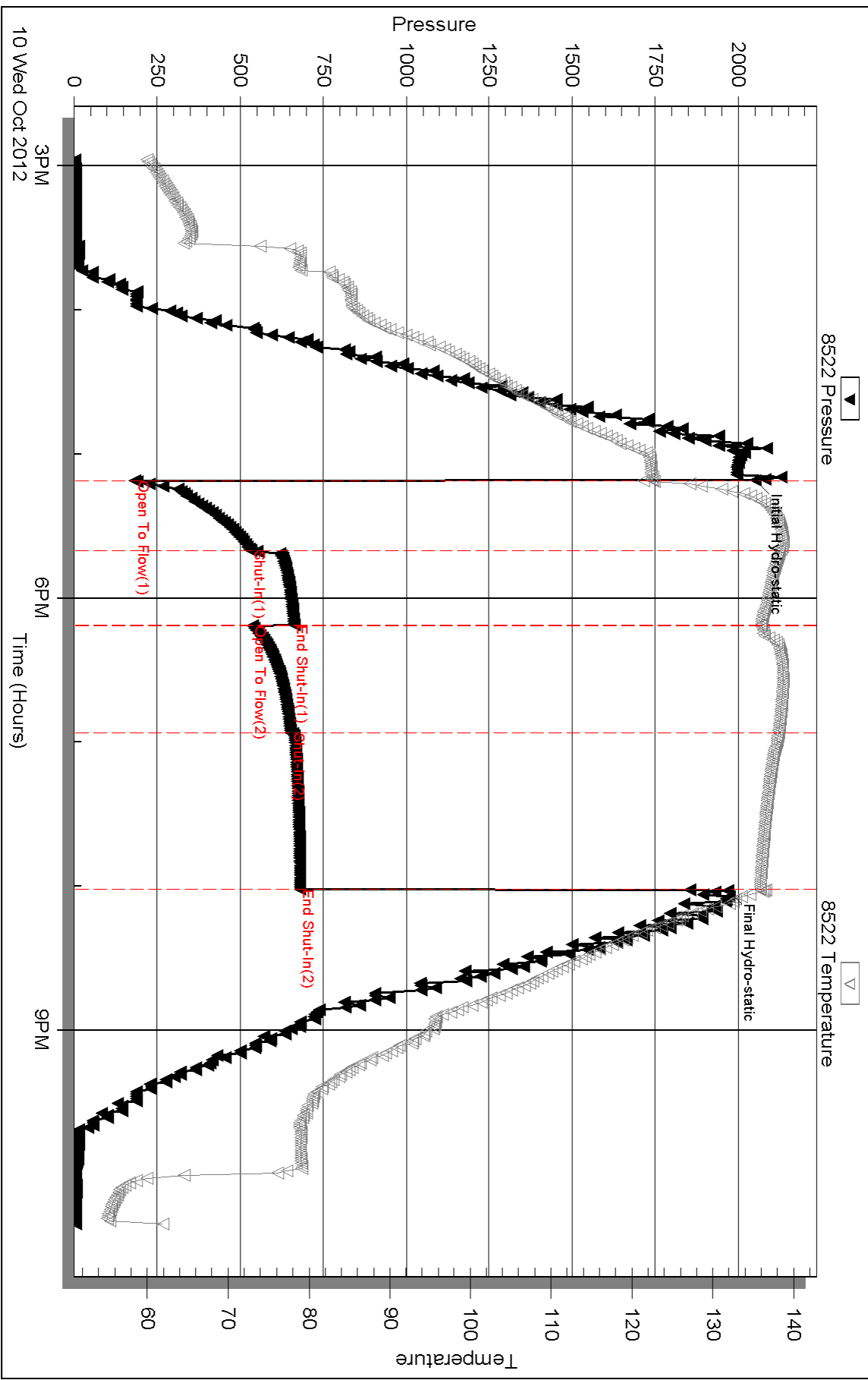
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .225 @ 49F = 45,000ppm

Pressure vs. Time



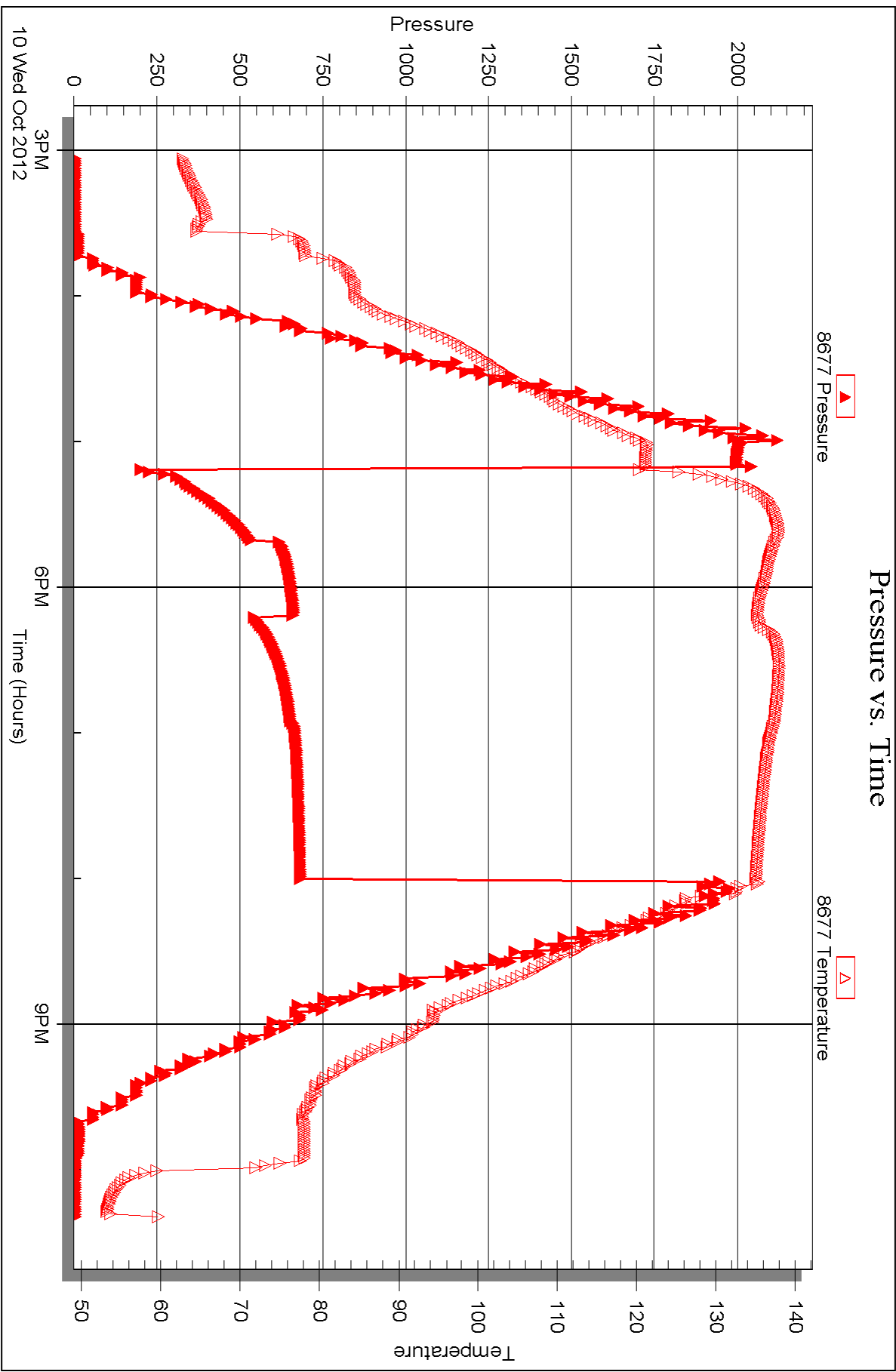
Serial #: 8677

Inside

FIML Natural Resources, LLC

Suppes #10B-33-1831

DST Test Number: 2





DRILL STEM TEST REPORT

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

410 17th St. STE 900
Denver, CO 80202

ATTN: Jim Musgrove

Suppes #10B-33-1831

33 18s 31w Scott,KS

Start Date: 2012.10.11 @ 09:33:00

End Date: 2012.10.11 @ 16:38:45

Job Ticket #: 49760 DST #: 3

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

Printed: 2012.10.17 @ 13:29:49



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

ATTN: Jim Musgrove

Job Ticket: 49760

DST#: 3

Test Start: 2012.10.11 @ 09:33:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:49:00

Time Test Ended: 16:38:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4320.00 ft (KB) To 4410.00 ft (KB) (TVD)

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 82.15 psig @ 4321.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.11

End Date:

2012.10.11

Last Calib.: 2012.10.11

Start Time: 09:33:05

End Time:

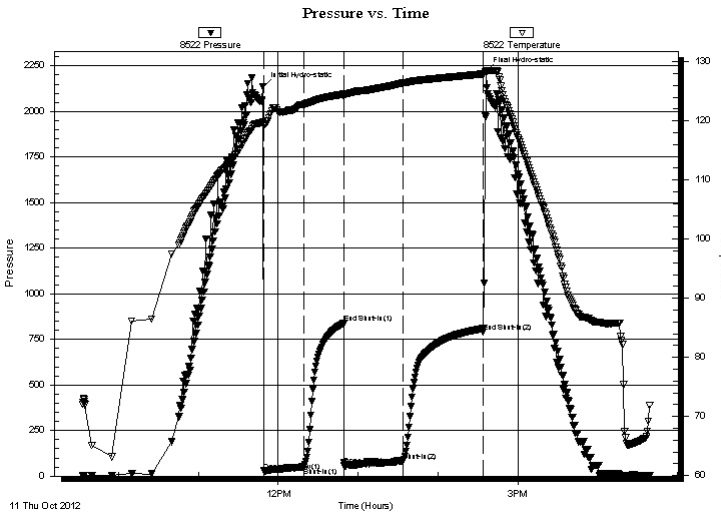
16:38:44

Time On Btm: 2012.10.11 @ 11:48:45

Time Off Btm: 2012.10.11 @ 14:36:00

TEST COMMENT: IF: 3" blow.
IS: No return.
FF: 1 1/2" blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.38	119.97	Initial Hydro-static
1	28.51	119.16	Open To Flow (1)
31	50.82	122.74	Shut-In(1)
61	837.68	124.51	End Shut-In(1)
61	58.19	124.37	Open To Flow (2)
105	82.15	126.41	Shut-In(2)
165	791.58	127.94	End Shut-In(2)
168	2220.19	128.42	Final Hydro-static

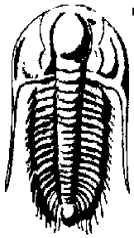
Recovery

Length (ft)	Description	Volume (bbl)
120.00	sgocm 5g 20o 75m	0.59
5.00	oil 100o	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49760

DST#: 3

ATTN: Jim Musgrove

Test Start: 2012.10.11 @ 09:33:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:49:00

Time Test Ended: 16:38:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: **4320.00 ft (KB) To 4410.00 ft (KB) (TVD)**

Total Depth: 4420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2956.00 ft (KB)

2946.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8677** Inside

Press @ Run Depth: psig @ 4321.00 ft (KB)

Start Date: 2012.10.11

End Date:

2012.10.11

Start Time: 09:33:35

End Time:

16:37:59

Capacity: 8000.00 psig

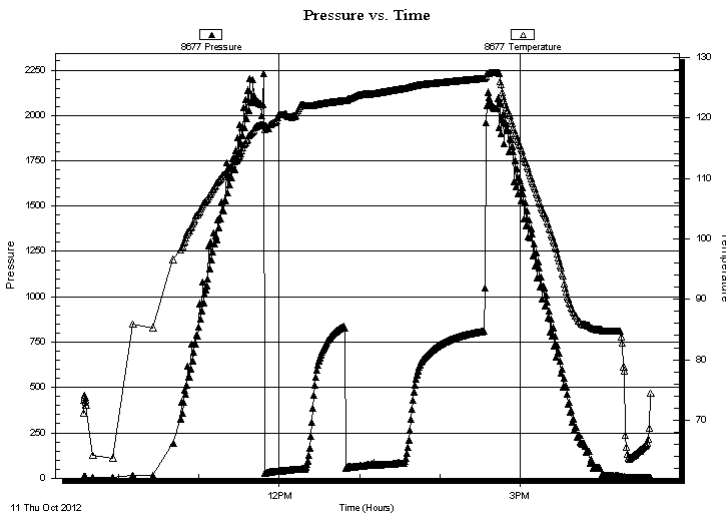
Last Calib.: 2012.10.11

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 3" blow .
IS: No return.
FF: 1 1/2" blow .
FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	sgocm 5g 20o 75m	0.59
5.00	oil 100o	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

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49760

DST#: 3

ATTN: Jim Musgrove

Test Start: 2012.10.11 @ 09:33:00

Tool Information

Drill Pipe:	Length: 3956.00 ft	Diameter: 3.80 inches	Volume: 55.49 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: 71000.00 lb
			<u>Total Volume: 57.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4320.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	110.00 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			4301.00	
Shut In Tool	5.00			4306.00	
Hydraulic tool	5.00			4311.00	
Packer	5.00			4316.00	20.00 Bottom Of Top Packer
Packer	4.00			4320.00	
Stubb	1.00			4321.00	
Recorder	0.00	8677	Inside	4321.00	
Recorder	0.00	8522	Outside	4321.00	
Perforations	22.00			4343.00	
Change Over Sub	1.00			4344.00	
Drill Pipe	62.00			4406.00	
Change Over Sub	1.00			4407.00	
Bullnose	3.00			4410.00	90.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49760

DST#: 3

ATTN: Jim Musgrove

Test Start: 2012.10.11 @ 09:33:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	sgocm 5g 20o 75m	0.590
5.00	oil 100o	0.025

Total Length: 125.00 ft

Total Volume: 0.615 bbl

Num Fluid Samples: 0

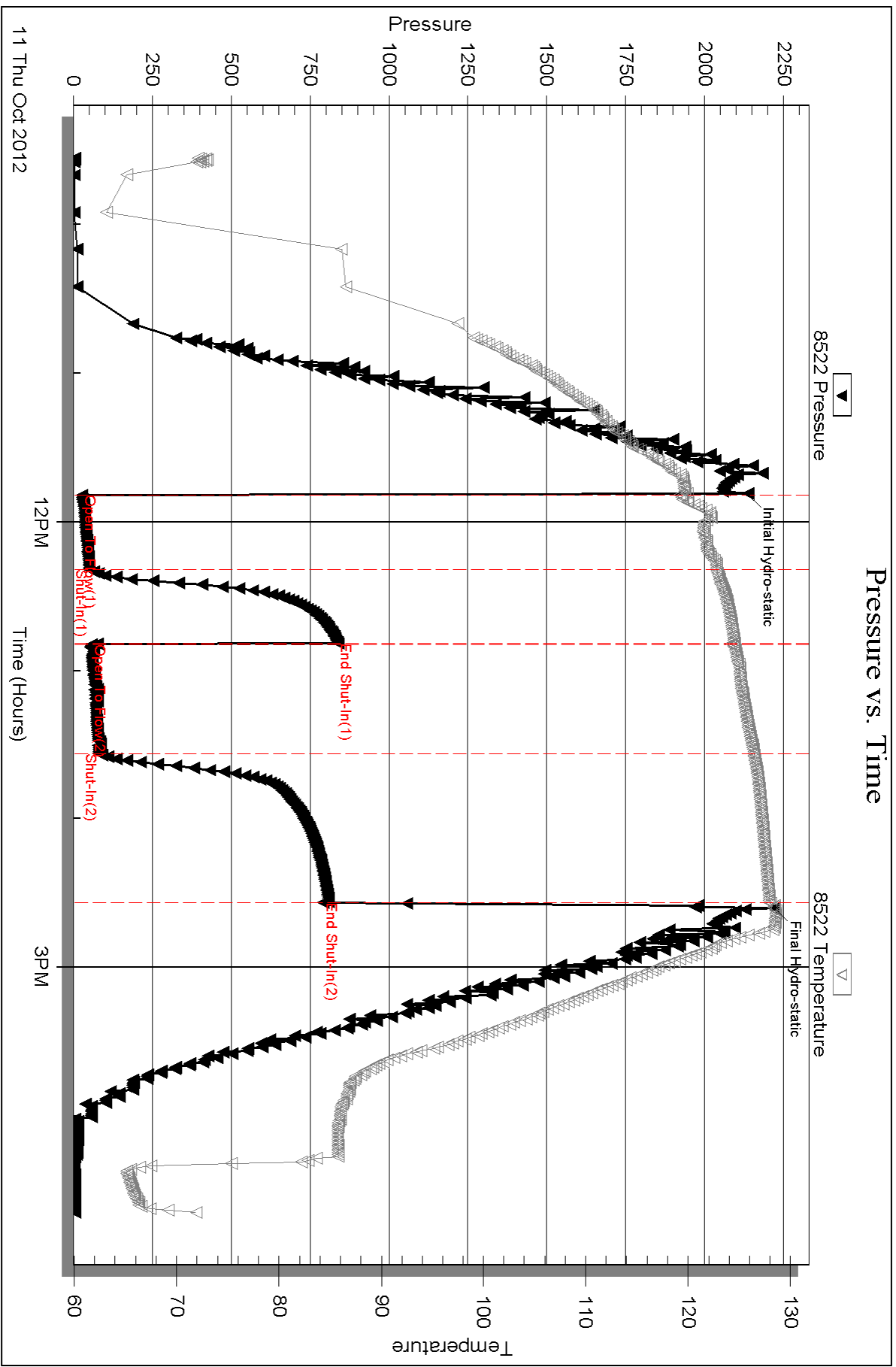
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



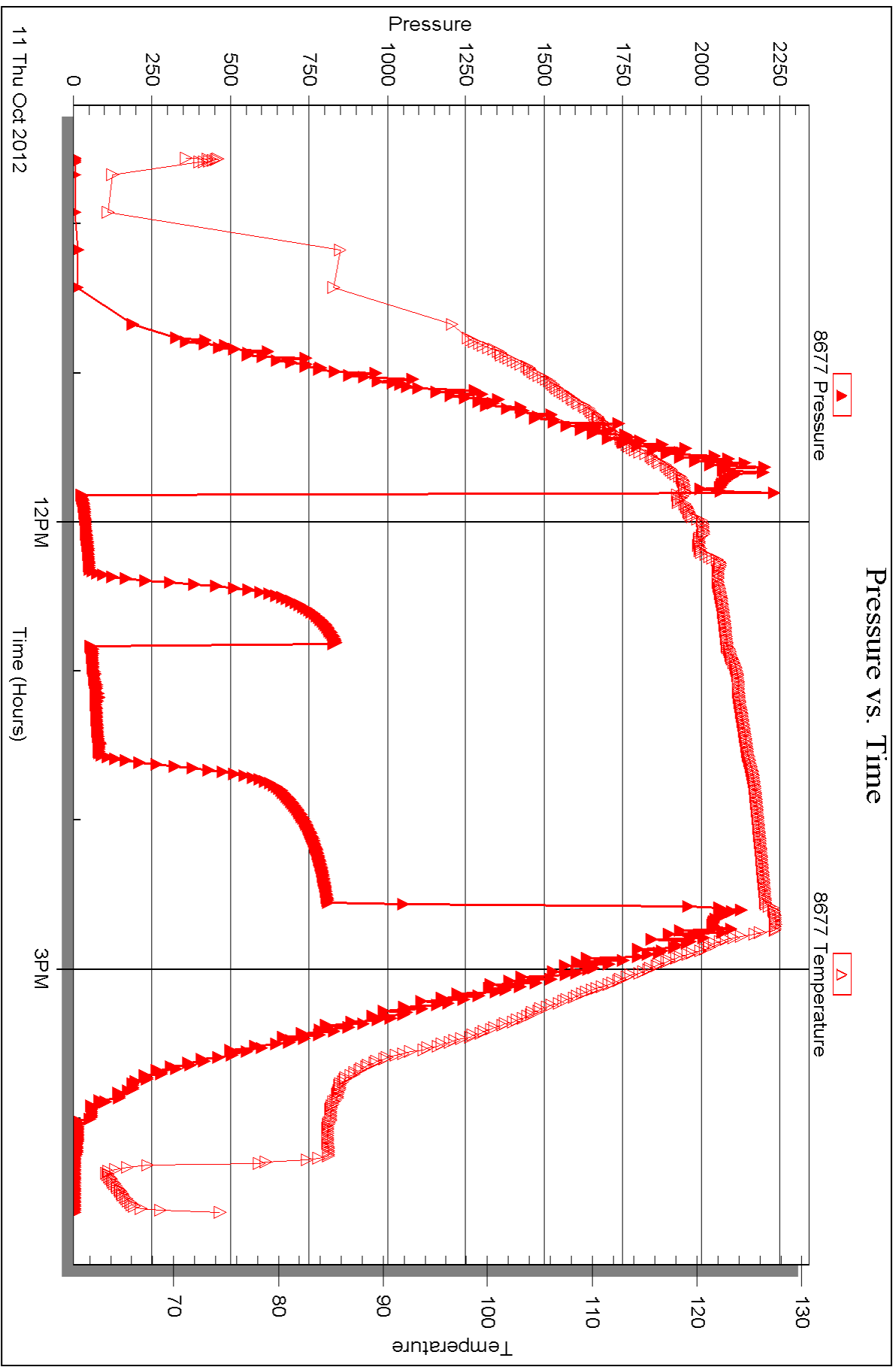
Serial #: 8677

Inside

FIML Natural Resources, LLC

Suppes #10B-33-1831

DST Test Number: 3





DRILL STEM TEST REPORT

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

410 17th St. STE 900
Denver, CO 80202

ATTN: Jim Musgrove

Suppes #10B-33-1831

33 18s 31w Scott,KS

Start Date: 2012.10.12 @ 09:42:00

End Date: 2012.10.12 @ 17:11:30

Job Ticket #: 49761 DST #: 4

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

Printed: 2012.10.17 @ 13:28:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

ATTN: Jim Musgrove

Job Ticket: 49761

DST#: 4

Test Start: 2012.10.12 @ 09:42:00

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:47:00

Time Test Ended: 17:11:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4579.00 ft (KB) To 4594.00 ft (KB) (TVD)

Reference Elevations: 2956.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 121.84 psig @ 4580.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.12

End Date:

2012.10.12

Last Calib.: 2012.10.12

Start Time: 09:42:05

End Time:

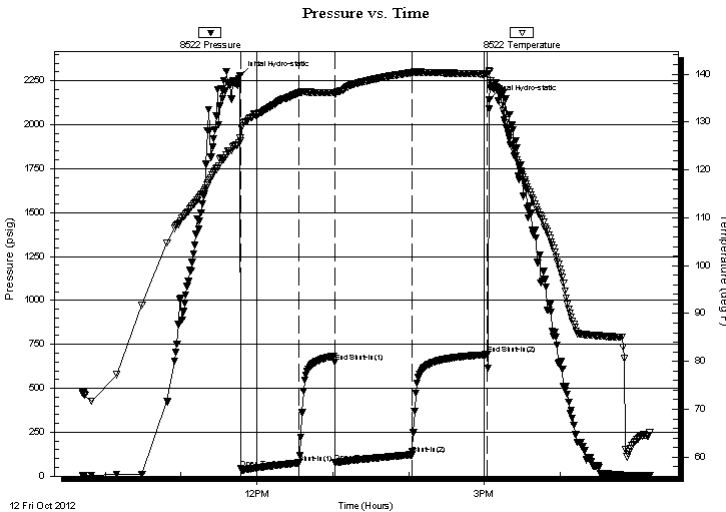
17:11:29

Time On Btm: 2012.10.12 @ 11:46:45

Time Off Btm: 2012.10.12 @ 15:04:00

TEST COMMENT: IF: 7" blow .
IS: No return.
FF: 7" blow .
FS: 1" return blow ..

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.84	126.77	Initial Hydro-static
1	41.98	126.12	Open To Flow (1)
47	76.00	136.12	Shut-In(1)
75	648.83	136.08	End Shut-In(1)
76	79.93	135.81	Open To Flow (2)
136	121.84	140.30	Shut-In(2)
196	691.59	140.07	End Shut-In(2)
198	2141.81	140.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	sow cm 5o 35w 60m	0.44
60.00	gocm 10g 30o 60m	0.30
90.00	go 35g 65o	0.44
0.00	210' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

33 18s 31w Scott,KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

ATTN: Jim Musgrove

Job Ticket: 49761

DST#: 4

Test Start: 2012.10.12 @ 09:42:00

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:47:00

Time Test Ended: 17:11:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4579.00 ft (KB) To 4594.00 ft (KB) (TVD)

Total Depth: 4310.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2956.00 ft (KB)

2946.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8677

Inside

Press @ Run Depth: psig @ 4580.00 ft (KB)

Start Date: 2012.10.12

End Date:

2012.10.12

Start Time: 09:42:20

End Time:

17:09:29

Capacity: 8000.00 psig

Last Calib.:

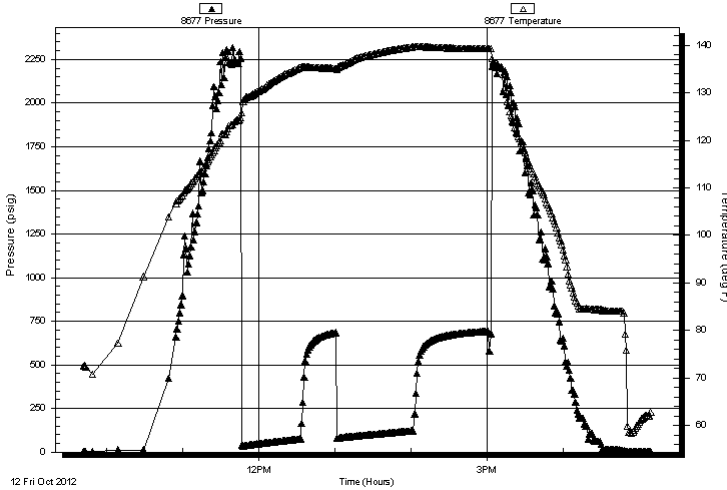
2012.10.12

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 7" blow .
IS: No return.
FF: 7" blow .
FS: 1" return blow ..

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	sow cm 5o 35w 60m	0.44
60.00	gocm 10g 30o 60m	0.30
90.00	go 35g 65o	0.44
0.00	210' GIP	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

33 18s 31w Scott, KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49761

DST#: 4

ATTN: Jim Musgrove

Test Start: 2012.10.12 @ 09:42:00

Tool Information

Drill Pipe:	Length: 4208.00 ft	Diameter: 3.80 inches	Volume: 59.03 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: 73000.00 lb
			<u>Total Volume: 60.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4579.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	35.00 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			4560.00	
Shut In Tool	5.00			4565.00	
Hydraulic tool	5.00			4570.00	
Packer	5.00			4575.00	20.00 Bottom Of Top Packer
Packer	4.00			4579.00	
Stubb	1.00			4580.00	
Recorder	0.00	8677	Inside	4580.00	
Recorder	0.00	8522	Outside	4580.00	
Perforations	11.00			4591.00	
Bullnose	3.00			4594.00	15.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

33 18s 31w Scott,KS

410 17th St. STE 900
Denver, CO 80202

Suppes #10B-33-1831

Job Ticket: 49761

DST#: 4

ATTN: Jim Musgrove

Test Start: 2012.10.12 @ 09:42:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	sow cm 5o 35w 60m	0.443
60.00	gocm 10g 30o 60m	0.295
90.00	go 35g 65o	0.443
0.00	210' GIP	0.000

Total Length: 240.00 ft

Total Volume: 1.181 bbl

Num Fluid Samples: 0

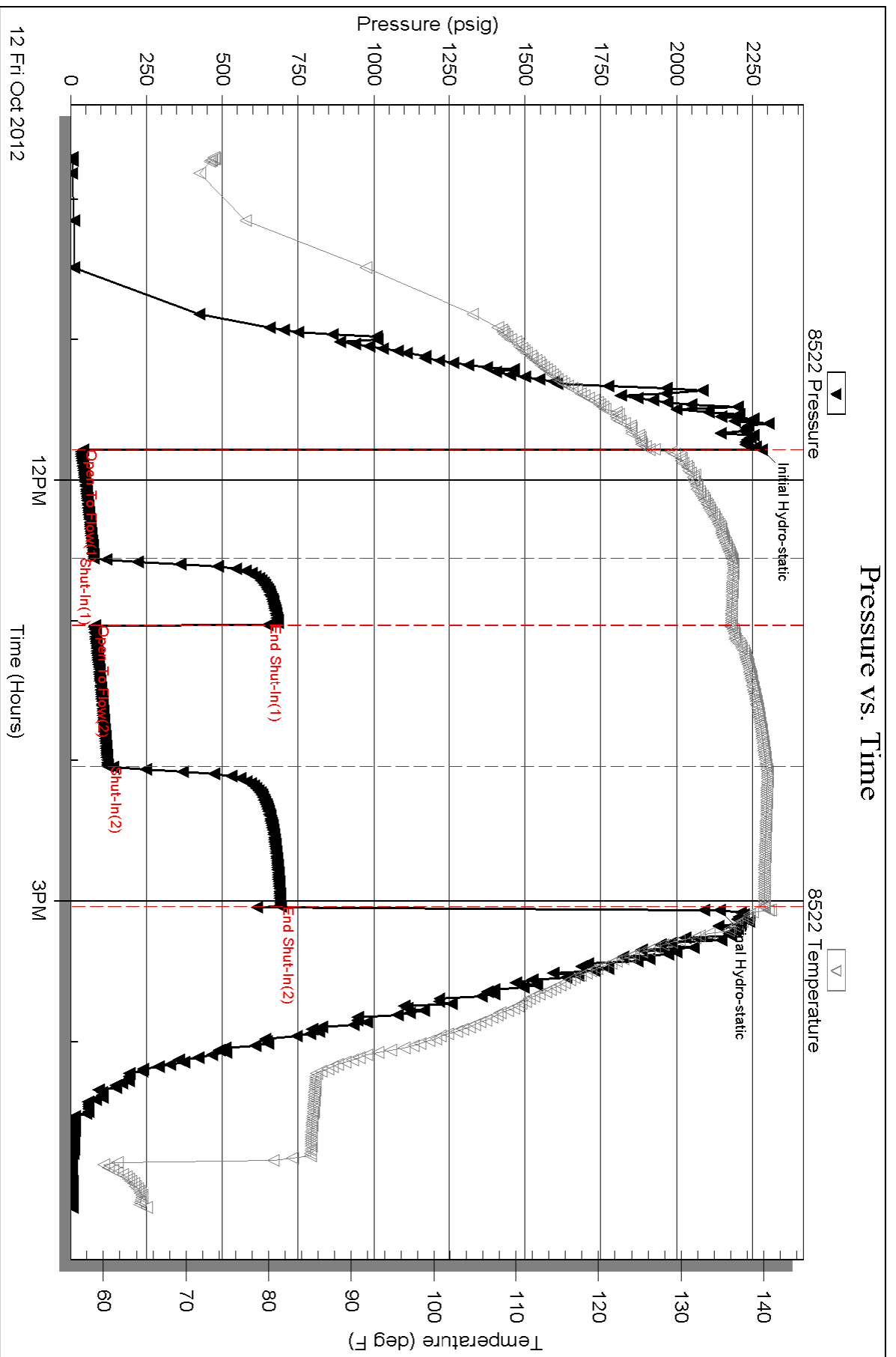
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



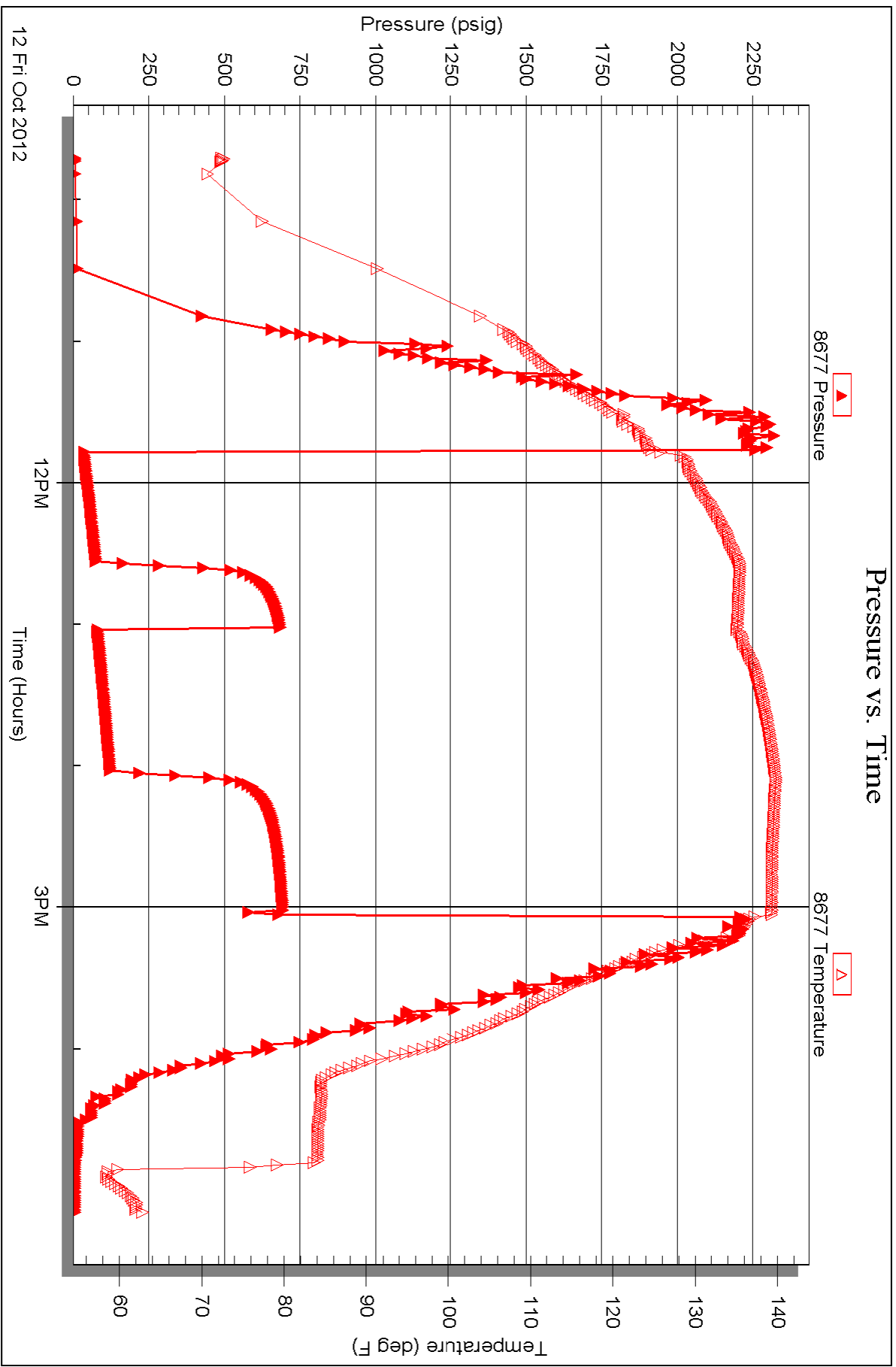
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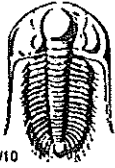
Inside

FIML Natural Resources, LLC

Suppes #10B-33-1831

DST Test Number: 4





TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 49758

Well Name & No. Suppes 10B-33-1831 Test No. 1 Date 10/10/12
 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. 33 Twp. 18.5 Rge. 31W Co. Scott State Ks

Interval Tested 4223 - 4310 Zone Tested LKC J-K-L
 Anchor Length 87' Drill Pipe Run 3862 Mud Wt. 9.0
 Top Packer Depth 4218 Drill Collars Run 368 Vis 49
 Bottom Packer Depth 4223 Wt. Pipe Run 0 WL 5.6
 Total Depth 4310 Chlorides 1100 ppm System LCM 8#

Blow Description FF
MISSRUN - Packer failure

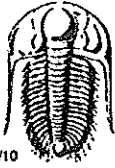
Rec	Feet of	%gas	%oil	%water	%mud
<u>380</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 380 BHT 129 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2044 Test 1050 T-On Location 0900
 (B) First Initial Flow 525 Jars _____ T-Started 1011
 (C) First Final Flow _____ Safety Joint _____ T-Open 1255
 (D) Initial Shut-In _____ Circ Sub N/C T-Pulled 1320
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 1500
 (F) Second Final Flow _____ Mileage 2.2 RT 34.10 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1980 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open _____ Extra Recorder _____ Sub Total 0
 Initial Shut-In MISS RUN Day Standby _____ Total 1234.10
 Final Flow _____ Accessibility 150 MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1234.10

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 49759

Well Name & No. Suppes 10B-33-1831 Test No. 2 Date 10/10/12
 Company FIML Natural Resources, LLC Elevation 2956 KB 2946 GL
 Address 400 17th St. STE 900 Denver, Co 80202
 Co. Rep / Geo. Gary Dake Rig 412#1
 Location: Sec. 33 Twp. 18s Rge. 31W Co. Scott State Ks

Interval Tested 4246 - 4310 Zone Tested LKC K-L
 Anchor Length 64' Drill Pipe Run 3862 Mud Wt. 9.0
 Top Packer Depth 4241 Drill Collars Run 368 Vis 49
 Bottom Packer Depth 4246 Wt. Pipe Run 0 WL 5.6
 Total Depth 4310 Chlorides 1100 ppm System LCM 8#

Blow Description IF! BOB @ 1/4 min.
ISF! No return.
FF! BOB @ 5 min.
KSI! No return.

Rec	Feet of	%gas	%oil	%water	%mud
1440	SMCW (oil spoils)				

Rec Total 1440 BHT 137 Gravity - API RW 225 @ 49 °F Chlorides 45000 ppm

(A) Initial Hydrostatic 2050 Test 1250 1225 T-On Location 1500
 (B) First Initial Flow 184 Jars T-Started 1515
 (C) First Final Flow 533 Safety Joint T-Open 1711
 (D) Initial Shut-In 662 Circ Sub N/C T-Pulled 1956
 (E) Second Initial Flow 537 Hourly Standby T-Out
 (F) Second Final Flow 652 Mileage 22 1/2 Comments
 (G) Final Shut-In 680 Sampler
 (H) Final Hydrostatic 1969 Straddle

Shale Packer 250 Ruined Shale Packer
 Extra Packer Ruined Packer
 Extra Recorder Extra Copies
 Day Standby Sub Total 0
 Accessibility 150 Total 1650
 Sub Total 1650 MP/DST Disc't

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 49760

Well Name & No. Suppes 10B-33-1831 Test No. 3 Date 10/11/12
 Company FTAL 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. 33 Twp. 18s Rge. 31w Co. Scott State Ks

Interval Tested 4320 - 4410 Zone Tested Marmaton
 Anchor Length 90' Drill Pipe Run 3956 Mud Wt. 9.1
 Top Packer Depth 4315 Drill Collars Run 368 Vis 64
 Bottom Packer Depth 4320 Wt. Pipe Run Ø WL 6.0
 Total Depth 4410 Chlorides 1600 ppm System LCM 7#

Blow Description IF: 3" blow
ISI: No return
FFI: 1 1/2" blow
FBI: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OIL</u>	<u>100</u>			
<u>120</u>	<u>Sgocm</u>	<u>5</u>	<u>20</u>		<u>75</u>

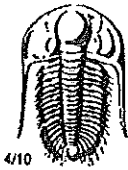
Rec Total 125 BHT 129 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2136 Test 1250 T-On Location 0915
 (B) First Initial Flow 29 Jars _____ T-Started 0933
 (C) First Final Flow 51 Safety Joint _____ T-Open 1149
 (D) Initial Shut-In 838 Circ Sub N/C T-Pulled 1434
 (E) Second Initial Flow 58 Hourly Standby _____ T-Out 1638
 (F) Second Final Flow 82 Mileage 22 RT 34.10
 (G) Final Shut-In 792 Sampler _____
 (H) Final Hydrostatic 2220 Straddle _____
 Ruined Shale Packer _____

Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 20 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1684.10
 Final Flow 45 Accessibility 150 MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1684.10

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 49761

Well Name & No. Supps 10B-33-1831 Test No. 4 Date 10/12/12
 Company FIML Natural Resources Elevation 2956 KB 2946 GL
 Address 410 17th St STE 900 Denver, Co 80202
 Co. Rep / Geo. Gary Duke Rig H12th
 Location: Sec. 33 Twp. 18s Rge. 31w Co. Scott State Ks

Interval Tested 4320 - 4579 4579-4594 Zone Tested Spurgin
 Anchor Length 15 Drill Pipe Run 4208 Mud Wt. 9.2
 Top Packer Depth 4574 Drill Collars Run 368 Vis 54
 Bottom Packer Depth 4579 Wt. Pipe Run 8 WL 6.6
 Total Depth 4594 Chlorides 1,800 ppm System LCM 5th
 Blow Description IF: 7" blow,
ISI: No return
FF: 7" blow
FSI: 1" return blow.

Rec	Feet of	%gas	%oil	%water	%mud
90	60	35	65		
60	60cm	10	50		60
90	50wcm		5	35	60
	210' BTP				

Rec Total 240 BHT 141 Gravity 34 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2281 Test 1250 T-On Location 0930
 (B) First Initial Flow 42 ~~Test~~ NO T-Started 0942
 (C) First Final Flow 76 Safety Joint - T-Open 1147
 (D) Initial Shut-In 649 Circ Sub 1/2 T-Pulled 1502
 (E) Second Initial Flow 80 Hourly Standby - T-Out 1712
 (F) Second Final Flow 122 Mileage 22 R/t 34.10 Comments -
 (G) Final Shut-In 692 Sampler -
 (H) Final Hydrostatic 2142 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Extra Recorder - Sub Total 0
 Day Standby - Total 1434.10
 Accessibility 150 MP/DST Disc't -
 Sub Total 1434.10

Approved By [Signature] Our Representative [Signature]

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