



DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

20-18-31 Scott,KS

Long Family Partners 6A

Start Date: 2011.08.10 @ 11:52:00

End Date: 2011.08.10 @ 18:53:45

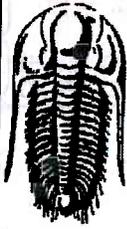
Job Ticket #: 43626 DST #: 1

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

ORIGINAL

Printed: 2011.08.18 @ 17:03:28 Page 1

FIML Natural Resources
Long Family Partners 6A
20-18-31 Scott,KS
DST # 1
Lansing B&C
2011.08.10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FIML Natural Resources

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

Long Family Partners 6A

20-18-31 Scott,KS

Job Ticket: 43626

DST#: 1

Test Start: 2011.08.10 @ 11:52:00

GENERAL INFORMATION:

Formation: **Lansing B&C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:58:15

Time Test Ended: 18:53:45

Interval: **3952.00 ft (KB) To 4000.00 ft (KB) (TVD)**

Total Depth: 40000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Bradely Walter/WMI

Unit No: 40

Reference Elevations: 2965.00 ft (KB)

2953.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8652

Inside

Press@RunDepth: 1000.25 psig @ 3953.00 ft (KB)

Start Date: 2011.08.10

End Date:

2011.08.10

Start Time: 11:52:05

End Time:

18:53:44

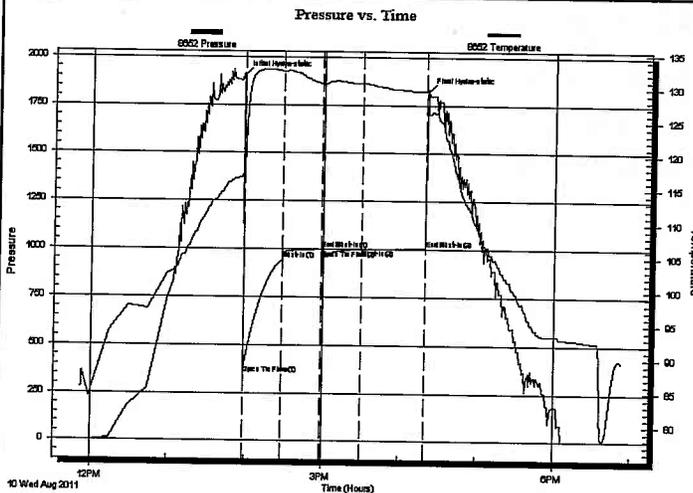
Capacity: 8000.00 psig

Last Calib.: 2011.08.10

Time On Btm: 2011.08.10 @ 13:57:45

Time Off Btm: 2011.08.10 @ 16:21:30

TEST COMMENT: IF-BOB in 45 sec
ISI-No Blow
FF-BOB in 4 1/2 min Reced to 7 in
FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.94	117.44	Initial Hydro-static
1	350.99	117.36	Open To Flow (1)
31	944.43	132.45	Shut-In(1)
61	998.90	130.63	End Shut-In(1)
62	949.22	130.60	Open To Flow (2)
93	1000.25	130.64	Shut-In(2)
142	1003.93	129.54	End Shut-In(2)
144	1825.45	126.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1950.00	5%rn 95%w	23.99
200.00	40%rn 60%w	2.81

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43626

DST#: 1

ATTN: Josh Austin

Test Start: 2011.08.10 @ 11:52:00

Tool Information

Drill Pipe:	Length: 3580.00 ft	Diameter: 3.80 inches	Volume: 50.22 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: 20000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 52.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3952.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 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			3925.00	
Shut In Tool	5.00			3930.00	
Hydraulic tool	5.00			3935.00	
Jars	5.00			3940.00	
Safety Joint	2.00			3942.00	
Packer	5.00			3947.00	28.00 Bottom Of Top Packer
Packer	5.00			3952.00	
Stubb	1.00			3953.00	
Recorder	0.00	8652	Inside	3953.00	
Recorder	0.00	8360	Outside	3953.00	
Perforations	11.00			3964.00	
Change Over Sub	1.00			3965.00	
Drill Pipe	31.00			3996.00	
Change Over Sub	1.00			3997.00	
Bullnose	3.00			4000.00	48.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

ATTN: Josh Austin

Job Ticket: 43626

DST#: 1

Test Start: 2011.08.10 @ 11:52:00

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:

55000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.06 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1950.00	5% <i>m</i> 95% <i>w</i>	23.992
200.00	40% <i>m</i> 60% <i>w</i>	2.805

Total Length: 2150.00 ft Total Volume: 26.797 bbf

Num Fluid Samples: 0

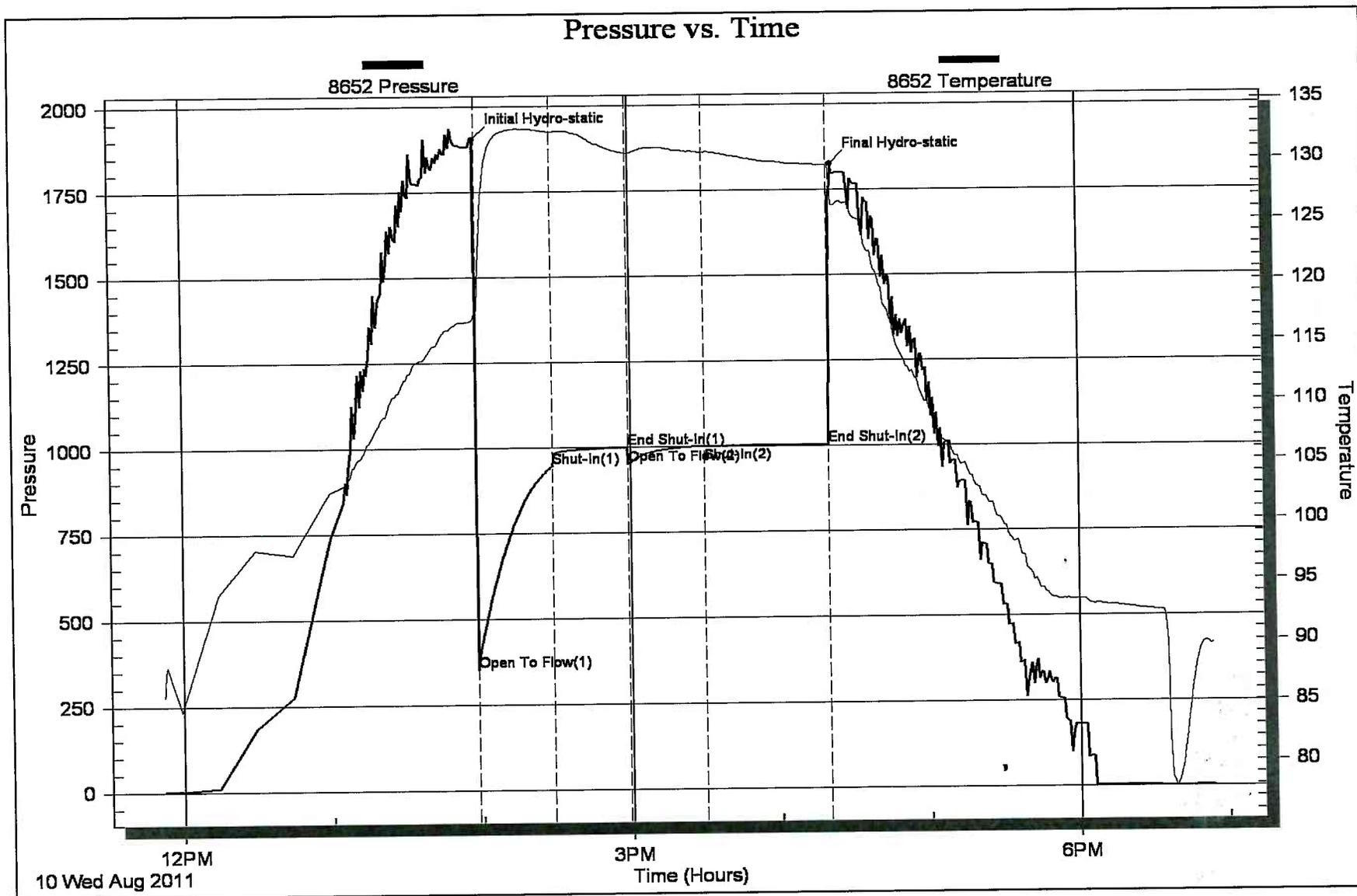
Num Gas Bombs: 0

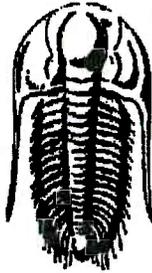
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .122 @ 79f=55000ppm





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

20-18-31 Scott,KS

Long Family Partners 6A

Start Date: 2011.08.11 @ 02:23:05

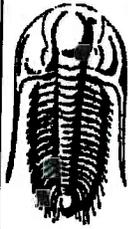
End Date: 2011.08.11 @ 08:26:29

Job Ticket #: 43627 DST #: 2

Trilobite Testing, Inc

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

Long Family Partners 6A

20-18-31 Scott,KS

Job Ticket: 43627

DST#: 2

Test Start: 2011.08.11 @ 02:23:05

GENERAL INFORMATION:

Formation: **Lansing "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:26:30

Time Test Ended: 08:26:29

Interval: **4006.00 ft (KB) To 4027.00 ft (KB) (TVD)**

Total Depth: 40000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Bradely Walter/WML

Unit No: 40

Reference Elevations: 2965.00 ft (KB)

2953.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8652

Inside

Press@RunDepth: 33.24 psig @ 4007.00 ft (KB)

Start Date: 2011.08.11

End Date:

2011.08.11

Start Time: 02:23:05

End Time:

08:26:29

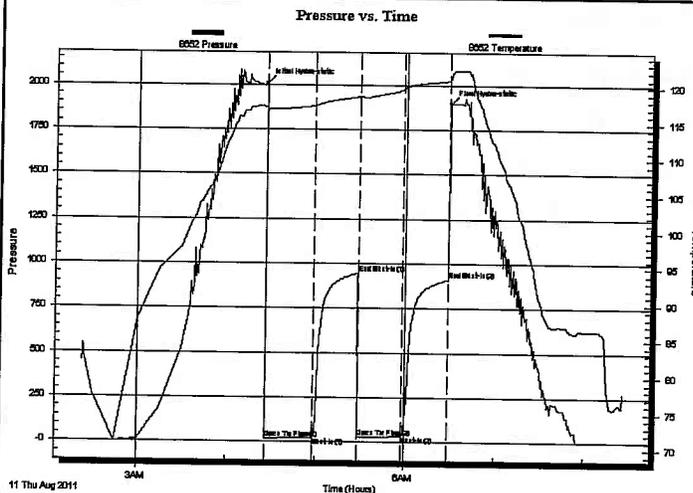
Capacity: 8000.00 psig

Last Calib.: 2011.08.11

Time On Btm: 2011.08.11 @ 04:26:15

Time Off Btm: 2011.08.11 @ 06:29:15

TEST COMMENT: IF- Weak Surface Blow Died in 22 min
IS- No Blow
FF- No Blow
FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.34	117.30	Initial Hydro-static
1	16.97	116.38	Open To Flow (1)
32	26.19	117.40	Shut-In(1)
62	948.51	118.68	End Shut-In(1)
63	27.45	118.29	Open To Flow (2)
92	33.24	119.82	Shut-In(2)
123	911.49	120.91	End Shut-In(2)
123	1897.29	121.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% mud (Oil Spots)	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43627

DST#: 2

ATTN: Josh Austin

Test Start: 2011.08.11 @ 02:23:05

Tool Information

Drill Pipe:	Length: 3641.00 ft	Diameter: 3.80 inches	Volume: 51.07 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: 20000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: lb
			Total Volume: 52.88 bbl	Tool Chased: ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4006.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 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			3979.00	
Shut In Tool	5.00			3984.00	
Hydraulic tool	5.00			3989.00	
Jars	5.00			3994.00	
Safety Joint	2.00			3996.00	
Packer	5.00			4001.00	28.00 Bottom Of Top Packer
Packer	5.00			4006.00	
Stubb	1.00			4007.00	
Recorder	0.00	8652	Inside	4007.00	
Recorder	0.00	8360	Outside	4007.00	
Perforations	17.00			4024.00	
Bullnose	3.00			4027.00	21.00 Bottom Packers & Anchor

Total Tool Length: 49.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43627

DST#: 2

ATTN: Josh Austin

Test Start: 2011.08.11 @ 02:23:05

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.09 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	100% mud (Oil Spots)	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

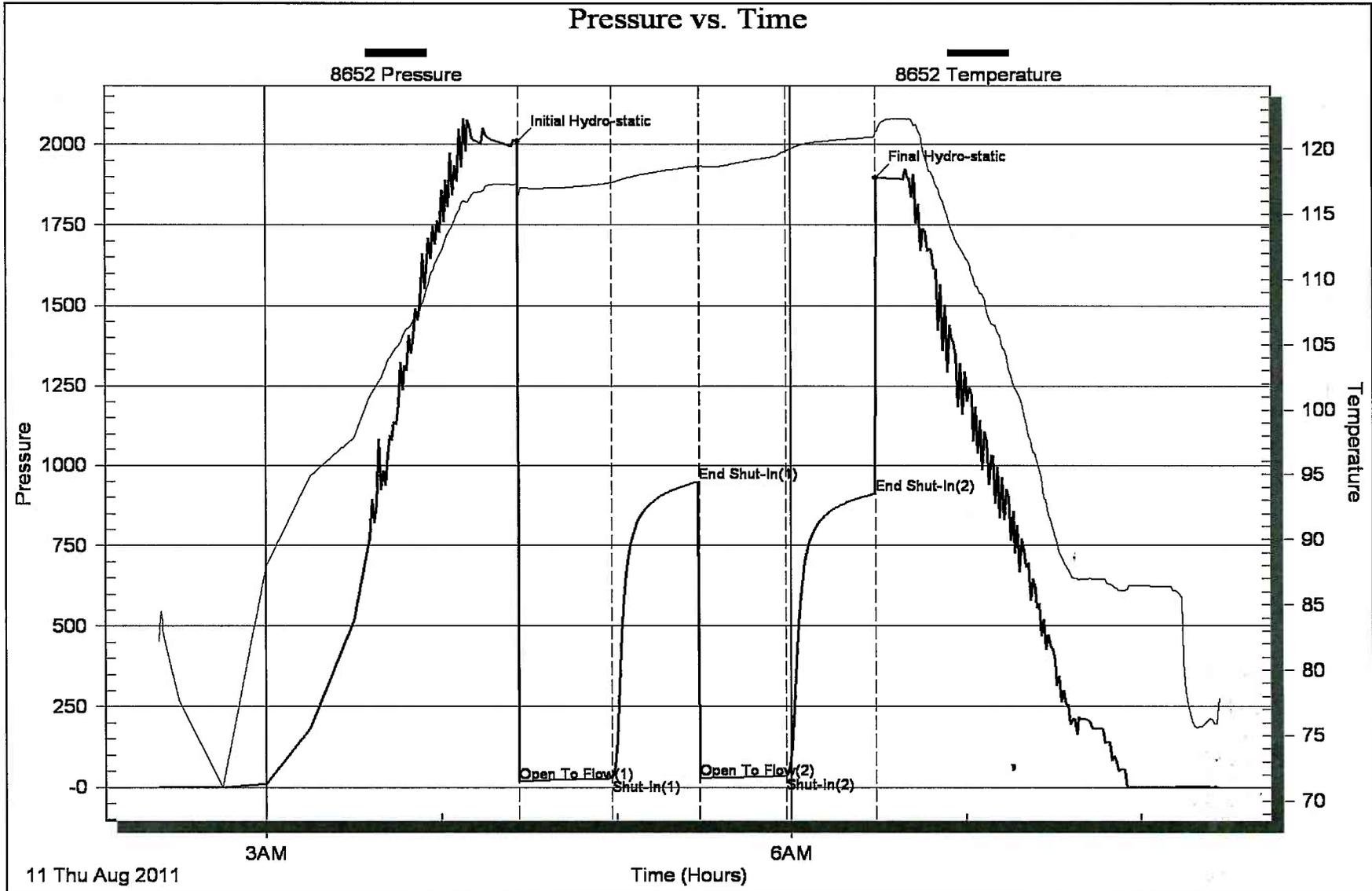
Num Gas Bombs: 0

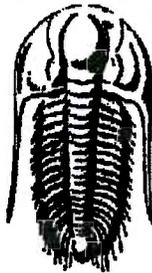
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

20-18-31 Scott,KS

Long Family Partners 6A

Start Date: 2011.08.11 @ 21:04:05

End Date: 2011.08.12 @ 06:17:30

Job Ticket #: 43628 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

FIML Natural Resources

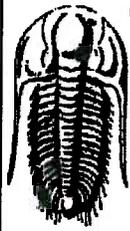
Long Family Partners 6A

20-18-31 Scott,KS

DST # 3

Lansing G&H

2011.08.11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FIML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

ATTN: Josh Austin

Job Ticket: 43628 **DST#: 3**

Test Start: 2011.08.11 @ 21:04:05

GENERAL INFORMATION:

Formation: **Lansing G&H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:35:30
 Time Test Ended: 06:17:30

Test Type: Conventional Bottom Hole
 Tester: Bradely Walter/WMI
 Unit No: 40

Interval: **4104.00 ft (KB) To 4175.00 ft (KB) (TVD)**
 Total Depth: 4175.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2965.00 ft (KB)
 2953.00 ft (CF)
 KB to GR/CF: 12.00 ft

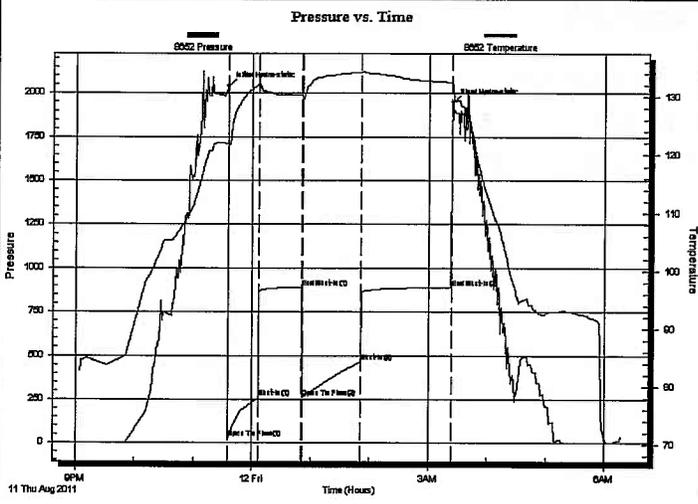
Serial #: 8652

Inside

Press@RunDepth: 467.60 psig @ 4105.00 ft (KB)
 Start Date: 2011.08.11 End Date: 2011.08.12
 Start Time: 21:04:05 End Time: 06:17:30

Capacity: 8000.00 psig
 Last Calib.: 2011.08.12
 Time On Btm: 2011.08.11 @ 23:35:00
 Time Off Btm: 2011.08.12 @ 03:24:29

TEST COMMENT: IF- BOB in 9 min
 IS- No Blow
 FF- BOB in 13 min
 FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2042.56	122.11	Initial Hydro-static
1	28.55	121.52	Open To Flow (1)
32	261.09	132.17	Shut-In(1)
76	890.83	130.37	End Shut-In(1)
77	259.07	129.99	Open To Flow (2)
136	467.60	134.28	Shut-In(2)
229	890.61	132.58	End Shut-In(2)
230	1948.25	131.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
470.00	20%m 80%w	3.23
368.00	20%m 20%o 60%w	5.16
128.00	20%w 30%o 50%m	1.80
60.00	Oil 100% o	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43628

DST#: 3

ATTN: Josh Austin

Test Start: 2011.08.11 @ 21:04:05

Tool Information

Drill Pipe:	Length: 3734.00 ft	Diameter: 3.80 inches	Volume: 52.38 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: 20000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 54.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4104.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	92.00 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			4084.00	
Shut In Tool	5.00			4089.00	
Hydraulic tool	5.00			4094.00	
Packer	5.00			4099.00	21.00 Bottom Of Top Packer
Packer	5.00			4104.00	
Stubb	1.00			4105.00	
Recorder	0.00	8360	Outside	4105.00	
Recorder	0.00	8652	Inside	4105.00	
Perforations	33.00			4138.00	
Change Over Sub	1.00			4139.00	
Drill Pipe	31.00			4170.00	
Change Over Sub	1.00			4171.00	
Perforations	1.00			4172.00	
Bullnose	3.00			4175.00	71.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43628

DST#: 3

ATTN: Josh Austin

Test Start: 2011.08.11 @ 21:04:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

39000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.87 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
470.00	20%m 80%w	3.231
368.00	20%m 20%o 60%w	5.162
128.00	20%w 30%o 50%m	1.796
60.00	Oil 100% o	0.842

Total Length: 1026.00 ft Total Volume: 11.031 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

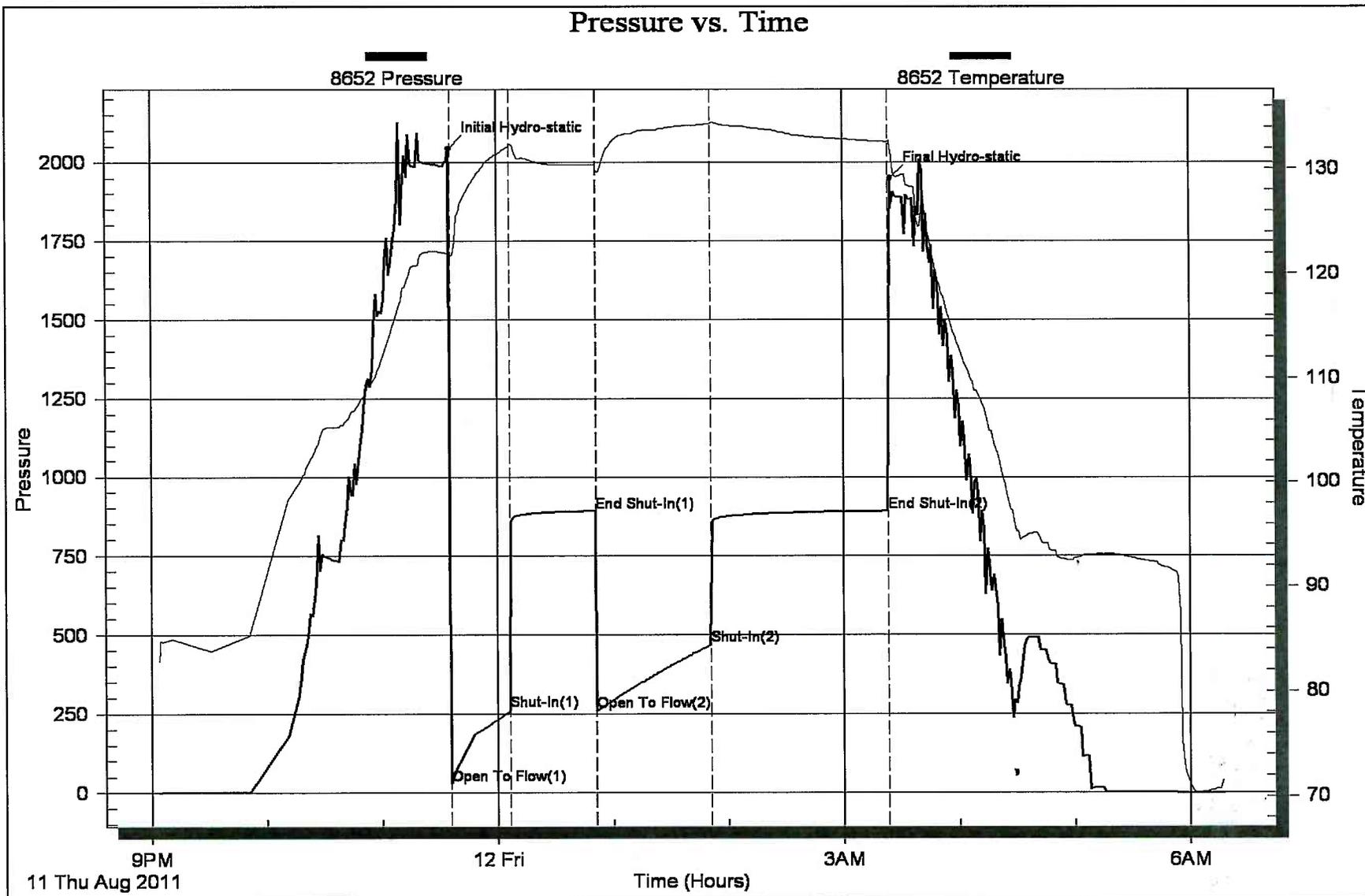
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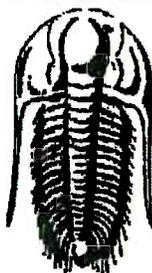
Laboratory Name:

Laboratory Location:

Recovery Comments: Oil Api is 26 at 72f = 25api

RW.167@75f=3900





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

20-18-31 Scott,KS

Long Family Partners 6A

Start Date: 2011.08.12 @ 18:32:00

End Date: 2011.08.13 @ 02:28:15

Job Ticket #: 43629 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

FIML Natural Resources

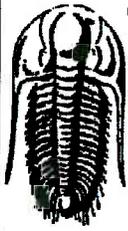
Long Family Partners 6A

20-18-31 Scott,KS

DST # 4

Lansing-JL

2011.08.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FML Natural Resources

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

Long Family Partners 6A

20-18-31 Scott,KS

Job Ticket: 43629

DST#: 4

Test Start: 2011.08.12 @ 18:32:00

GENERAL INFORMATION:

Formation: **Lansing- J-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:36:30
 Time Test Ended: 02:28:15

Test Type: Conventional Bottom Hole
 Tester: Bradely Walter/Mill
 Unit No: 40

Interval: **4190.00 ft (KB) To 4285.00 ft (KB) (TVD)**
 Total Depth: 4285.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2965.00 ft (KB)
 2953.00 ft (CF)
 KB to GR/CF: 12.00 ft

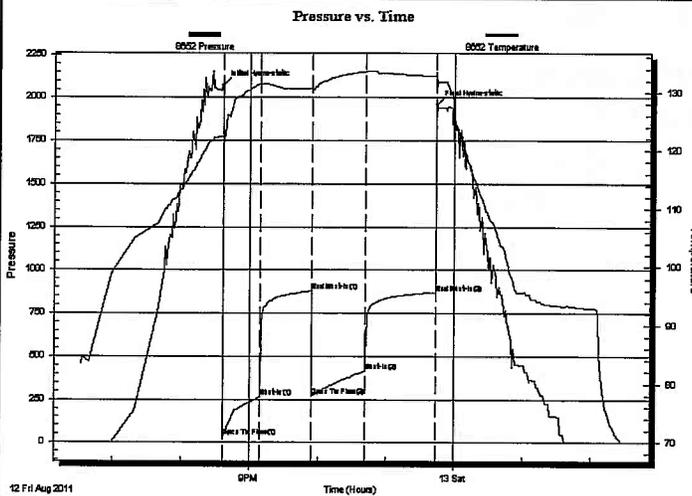
Serial #: 8652

Inside

Press@RunDepth: 415.53 psig @ 4191.00 ft (KB)
 Start Date: 2011.08.12 End Date: 2011.08.13
 Start Time: 18:32:05 End Time: 02:28:14

Capacity: 8000.00 psig
 Last Calib.: 2011.08.13
 Time On Btm: 2011.08.12 @ 20:36:15
 Time Off Btm: 2011.08.12 @ 23:44:30

TEST COMMENT: IF- BOB in 8 min
 IS- No Blow
 FF- BOB in 10 min
 FS- Built to 1 1/2 in Receeded to 1 1/4



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.54	122.39	Initial Hydro-static
1	36.82	121.11	Open To Flow (1)
33	264.33	131.44	Shut-In(1)
78	878.68	130.63	End Shut-In(1)
79	271.33	130.29	Open To Flow (2)
126	415.53	133.53	Shut-In(2)
188	868.10	132.76	End Shut-In(2)
189	1962.89	131.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	5%o 75%w 20%m	1.97
282.00	5%g 30%o 20%w 45%m	3.96
94.00	10%g 40%o 20%w 30%m	1.32
194.00	20%g 80%o	2.72
0.00	188 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43629

DST#: 4

ATTN: Josh Austin

Test Start: 2011.08.12 @ 18:32:00

Tool Information

Drill Pipe:	Length: 3830.00 ft	Diameter: 3.80 inches	Volume: 53.72 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: 20000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 16000.00 lb
			Total Volume: 55.53 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4190.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	116.00 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	
Packer	5.00			4185.00	21.00 Bottom Of Top Packer
Packer	5.00			4190.00	
Stubb	1.00			4191.00	
Recorder	0.00	8360	Outside	4191.00	
Recorder	0.00	8652	Inside	4191.00	
Perforations	25.00			4216.00	
Change Over Sub	1.00			4217.00	
Drill Pipe	62.00			4279.00	
Change Over Sub	1.00			4280.00	
Perforations	2.00			4282.00	
Bullnose	3.00			4285.00	95.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43629

DST#: 4

ATTN: Josh Austin

Test Start: 2011.08.12 @ 18:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

39000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.90 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 bbf
380.00	5%o 75%w 20%m	1.969
282.00	5%g 30%o 20%w 45%m	3.956
94.00	10%g 40%o 20%w 30%m	1.319
194.00	20%g 80%o	2.721
0.00	188 GIP	0.000

Total Length: 950.00 ft Total Volume: 9.965 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

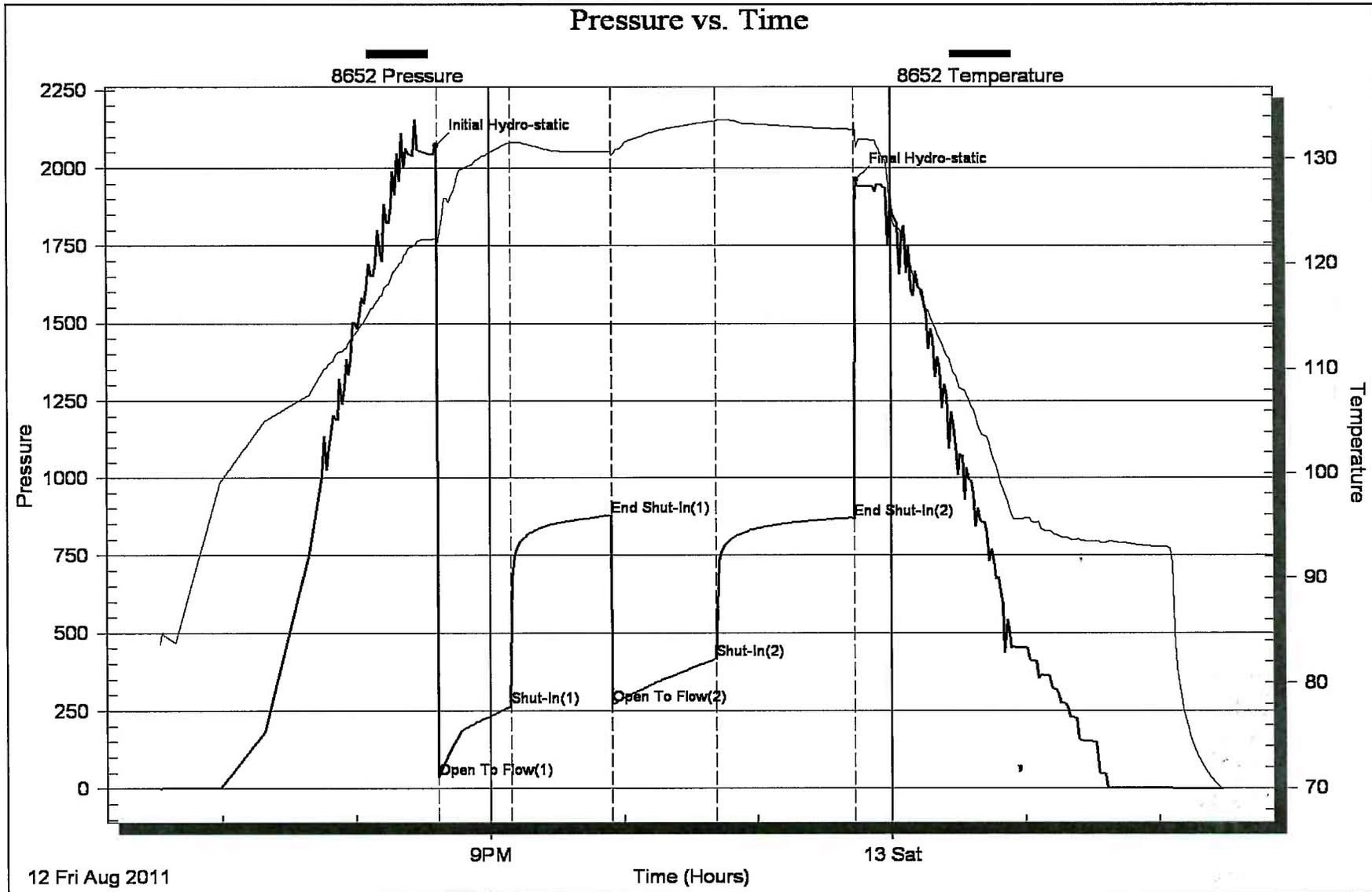
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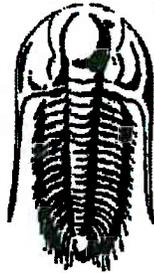
Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .182 @ 72=39000

OIL API 31 @ 72=30





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

20-18-31 Scott,KS

Long Family Partners 6A

Start Date: 2011.08.13 @ 12:54:05

End Date: 2011.08.13 @ 22:32:00

Job Ticket #: 43631 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

FIML Natural Resources

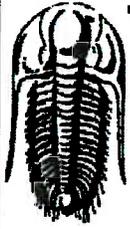
Long Family Partners 6A

20-18-31 Scott,KS

DST # 5

Marmaton / Altamont

2011.08.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

Long Family Partners 6A

20-18-31 Scott,KS

Job Ticket: 43631

DST#: 5

Test Start: 2011.08.13 @ 12:54:05

GENERAL INFORMATION:

Formation: **Marmaton / Altamont**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 15:30:15

Time Test Ended: 22:32:00

Test Type: **Conventional Bottom Hole**

Tester: **Bradely Walter/WMI**

Unit No: **40**

Interval: **4287.00 ft (KB) To 4380.00 ft (KB) (TVD)**

Total Depth: **4380.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2965.00 ft (KB)**

2953.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: 8652

Inside

Press@RunDepth: **436.44 psig @ 4288.00 ft (KB)**

Start Date: **2011.08.13**

End Date:

2011.08.13

Capacity: **8000.00 psig**

Last Calib.: **2011.08.13**

Start Time: **12:54:05**

End Time:

22:32:00

Time On Btrr: **2011.08.13 @ 15:30:00**

Time Off Btrr: **2011.08.13 @ 19:17:14**

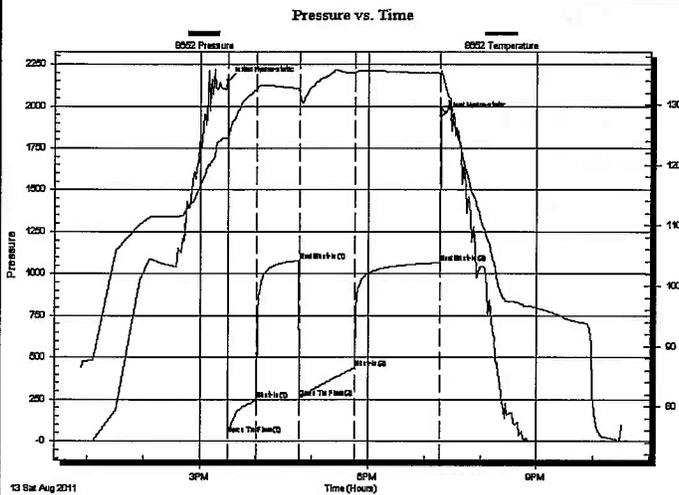
TEST COMMENT:

IF-BOB in 6min

IS- 1 1/5" in 8 min Died to 1/2"

FF- BOB in 7 1/2min

FS- 3 1/4" in 45 min Died to 2 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2153.09	124.43	Initial Hydro-static
1	39.71	123.78	Open To Flow (1)
31	247.90	132.52	Shut-In(1)
76	1077.97	132.73	End Shut-In(1)
77	260.41	131.92	Open To Flow (2)
136	436.44	135.33	Shut-In(2)
227	1065.33	135.21	End Shut-In(2)
228	1940.81	135.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
290.00	GO 30%G 70%o	1.43
375.00	GMO 10%G 40%M 50%o	4.54
470.00	MGO 10%M 30%G 60%O	6.59
	750 GIP	

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43631

DST#: 5

ATTN: Josh Austin

Test Start: 2011.08.13 @ 12:54:05

Tool Information

Drill Pipe:	Length: 3922.00 ft	Diameter: 3.80 inches	Volume: 55.02 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: 20000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 56.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4287.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	114.00 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			4267.00	
Shut In Tool	5.00			4272.00	
Hydraulic tool	5.00			4277.00	
Packer	5.00			4282.00	21.00 Bottom Of Top Packer
Packer	5.00			4287.00	
Stubb	1.00			4288.00	
Recorder	0.00	8360	Outside	4288.00	
Recorder	0.00	8652	Inside	4288.00	
Perforations	25.00			4313.00	
Change Over Sub	1.00			4314.00	
Drill Pipe	62.00			4376.00	
Change Over Sub	1.00			4377.00	
Bullnose	3.00			4380.00	93.00 Bottom Packers & Anchor

Total Tool Length: 114.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43631

DST#: 5

ATTN: Josh Austin

Test Start: 2011.08.13 @ 12:54:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.90 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 bbbl
290.00	GO 30%G 70%o	1.426
375.00	GMO 10%G 40%M 50%o	4.541
470.00	MGO 10%M 30%G 60%O	6.593
	750 GIP	

Total Length: -998864.00 ft Total Volume: 12.560 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

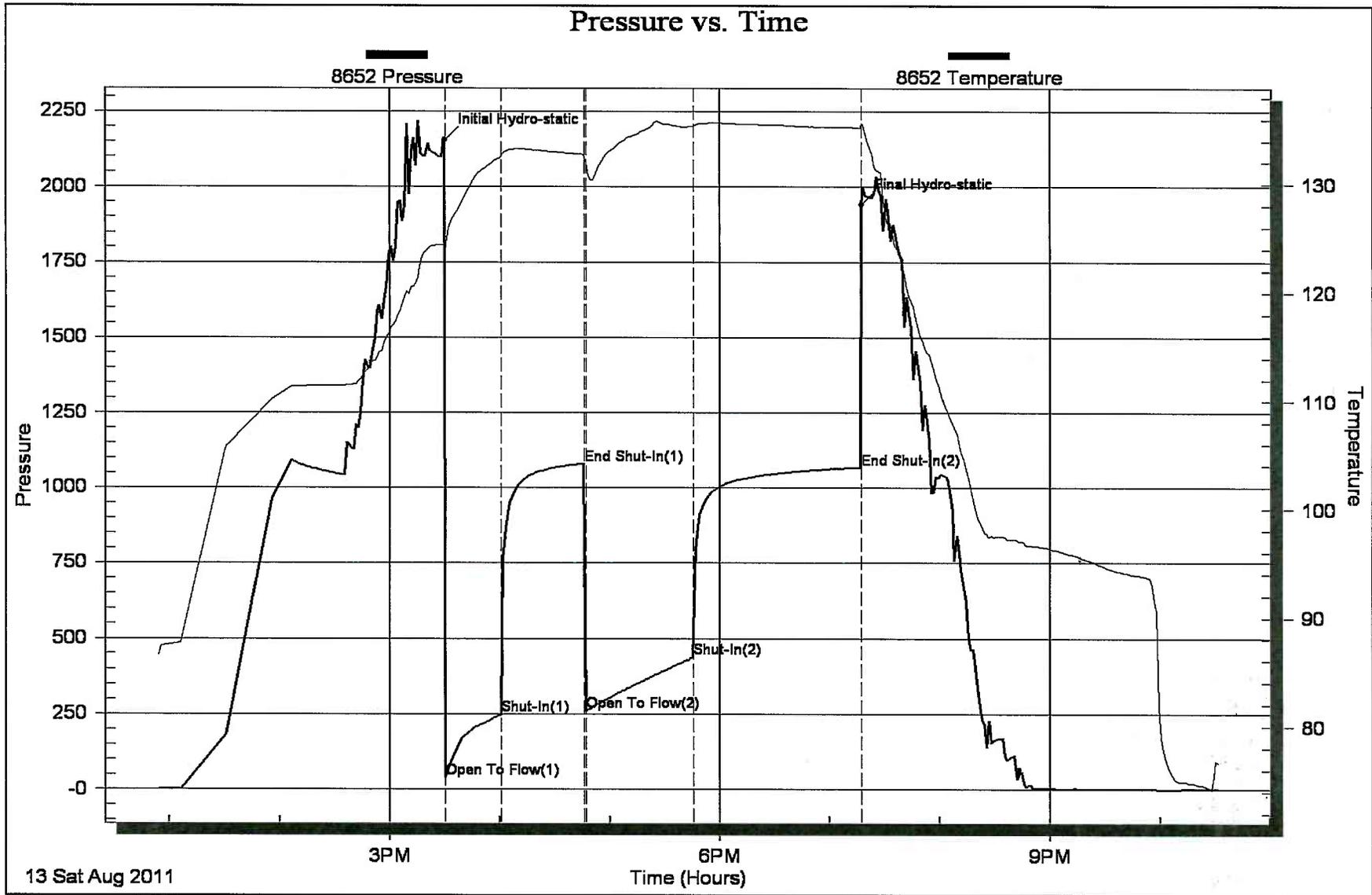
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API 28 @76 f =27

RW. @ f=





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources**

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

20-18-31 Scott,KS

Long Family Partners 6A

Start Date: 2011.08.14 @ 20:43:05

End Date: 2011.08.15 @ 03:17:29

Job Ticket #: 43632 DST #: 6

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

410 17th ST STE900
Denver CO 80202

ATTN: Josh Austin

Long Family Partners 6A

20-18-31 Scott,KS

Job Ticket: 43632

DST#: 6

Test Start: 2011.08.14 @ 20:43:05

GENERAL INFORMATION:

Formation: **Mississippi / Sperge**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:54:45

Time Test Ended: 03:17:29

Test Type: Conventional Bottom Hole

Tester: Bradely Walter/WMI

Unit No: 40

Interval: **4601.00 ft (KB) To 4618.00 ft (KB) (TVD)**

Total Depth: 4618.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2965.00 ft (KB)

2953.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8652

Inside

Press@RunDepth: 174.64 psig @ 4602.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.14

End Date:

2011.08.15

Last Calib.: 2011.08.15

Start Time: 20:43:05

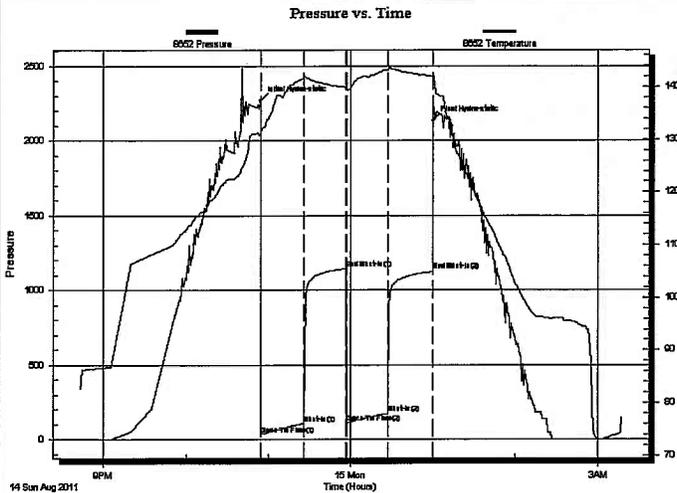
End Time:

03:17:29

Time On Btmr 2011.08.14 @ 22:54:30

Time Off Btmr 2011.08.15 @ 01:00:14

TEST COMMENT: IF- Built to 4 1/2"
IS- No Blow
FF- Built to 2 1/4"
FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.30	131.51	Initial Hydro-static
1	34.98	130.99	Open To Flow (1)
32	106.42	141.66	Shut-In(1)
62	1143.78	139.89	End Shut-In(1)
63	110.77	139.45	Open To Flow (2)
93	174.64	143.22	Shut-In(2)
126	1132.10	141.90	End Shut-In(2)
126	2136.39	142.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	MCW 10%w 90%r	0.37
280.00	WCM 60%w 40%r	1.38

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43632

DST#: 6

ATTN: Josh Austin

Test Start: 2011.08.14 @ 20:43:05

Tool Information

Drill Pipe:	Length: 4236.00 ft	Diameter: 3.80 inches	Volume: 59.42 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: 20000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 16000.00 lb
			<u>Total Volume: 61.23 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4601.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 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			4581.00	
Shut In Tool	5.00			4586.00	
Hydraulic tool	5.00			4591.00	
Packer	5.00			4596.00	21.00 Bottom Of Top Packer
Packer	5.00			4601.00	
Stubb	1.00			4602.00	
Recorder	0.00	8360	Outside	4602.00	
Recorder	0.00	8652	Inside	4602.00	
Perforations	13.00			4615.00	
Bullnose	3.00			4618.00	17.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources

Long Family Partners 6A

410 17th ST STE900
Denver CO 80202

20-18-31 Scott,KS

Job Ticket: 43632

DST#: 6

ATTN: Josh Austin

Test Start: 2011.08.14 @ 20:43:05

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:

13200 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 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
75.00	MCW 10%w 90%m	0.369
280.00	WCM 60%w 40%m	1.377

Total Length: 355.00 ft Total Volume: 1.746 bbl

Num Fluid Samples: 0

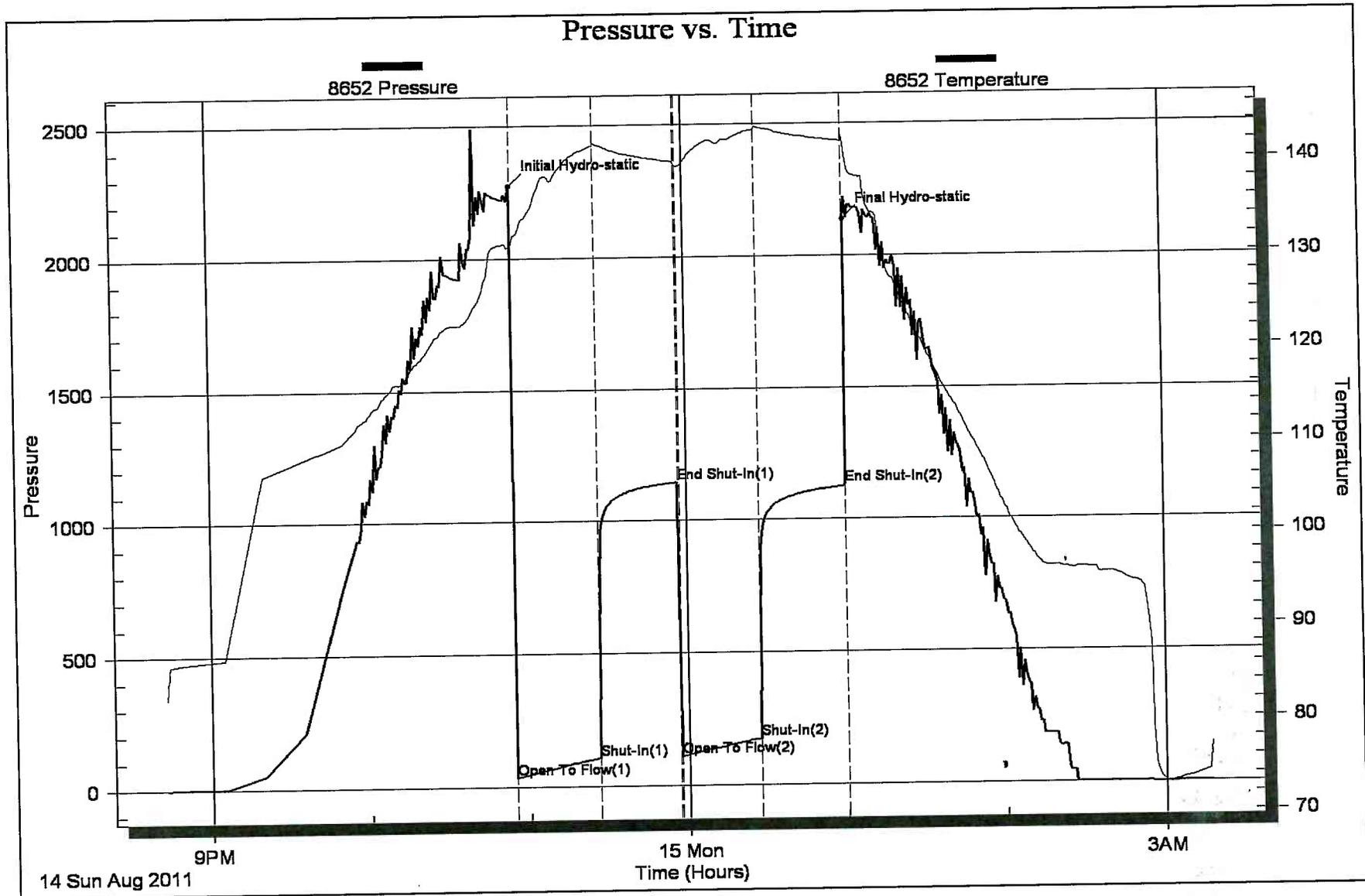
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW-410 @ 80f =13200
Oil Spots in Tool





TRILOBITE TESTING INC.

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RECEIVED
AUG 12 2011

Test Ticket

NO. 43626

Well Name & No. Long Family Partnership 6A Test No. 1 Date 8-10-11
 Company FIML Natural Res Elevation 2965 KB 2953 GL
 Address 410 17th ST, STE 900 Denver Co 80202
 Co. Rep / Geo. Josh Austin Rig H-2 #1
 Location: Sec. 20 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 3952-4000 Zone Tested Lansing B-C
 Anchor Length 48 Drill Pipe Run 3580 Mud Wt. 9.0
 Top Packer Depth 3947 Drill Collars Run 369 Vis 48
 Bottom Packer Depth 3952 Wt. Pipe Run 0 WL 7.2
 Total Depth 4000 Chlorides 1000 ppm System LCM 18
 Flow Description IF - BOB in 45 sec
ISI - No Blow
FF - BOB in 4 1/2 min Receded to 7 in
FSI - No Blow

Sec	Feet of	%gas	%oil	%water	%mud
1950					
<u>200</u>	<u>Feet of MCW</u>		<u>60</u>	<u>40</u>	
<u>1950</u>	<u>Feet of MCW</u>		<u>95</u>	<u>5</u>	

Sec Total 2150 BHT 129 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

A) Initial Hydrostatic <u>1903</u>	<input checked="" type="checkbox"/> Test <u>1125'</u>	T-On Location <u>10:40</u>
B) First Initial Flow <u>350</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>11:52</u>
C) First Final Flow <u>944</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>13:58</u>
D) Initial Shut-In <u>998</u>	<input checked="" type="checkbox"/> Circ Sub <u>NK</u>	T-Pulled <u>15:21</u>
E) Second Initial Flow <u>949</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>15:21 17:53</u>
F) Second Final Flow <u>1000</u>	<input checked="" type="checkbox"/> Mileage <u>11 RT 15.40</u>	Comments <u>will 6%</u>
G) Final Shut-In <u>1003</u>	<input type="checkbox"/> Sampler _____	<u>WALT 12%</u>
H) Final Hydrostatic <u>1825</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>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1615.40</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't _____
	Sub Total <u>1465.40</u> <u>1615.40</u>	

Approved By Craig S. [Signature] Our Representative [Signature] Jim Maud

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

RECEIVED
AUG 12 2011

Test Ticket

NO. 43627

Well Name & No. Long Family Partnership 6A Test No. #2 Date 8-11-11
 Company FIML Natural Res Elevation 2965 KB 2953 GL
 Address 410 17th ST, STE 900 Denver Co 80202
 Co. Rep / Geo. Josh Austin Rig H-2 #1
 Location: Sec. 20 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4006 - 4027 Zone Tested Lansing D
 Anchor Length 21 Drill Pipe Run 3641 Mud Wt. 9.0
 Top Packer Depth 4001 Drill Collars Run 369 Vis 48
 Bottom Packer Depth 4006 Wt. Pipe Run 0 WL 7.2
 Total Depth 4027 Chlorides 1000 ppm System LCM 18

Flow Description IF - Weak Surface Blow Dried in 22 min
ISI - No Blow
FE - No Blow
FSI - No Blow

Sec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>oil spotted mud (OIL SPOTS)</u>	<u>Oil spotted</u>	<u>oil</u>	<u>100</u>	
ec	Feet of	%gas	%oil	%water	%mud
ec	Feet of	%gas	%oil	%water	%mud
ec	Feet of	%gas	%oil	%water	%mud
ec	Feet of	%gas	%oil	%water	%mud

Sec Total _____ BHT 120 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

A) Initial Hydrostatic <u>2008</u>	<input checked="" type="checkbox"/> Test <u>1225.00</u>	T-On Location <u>12:30 am</u>
B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250.00</u>	T-Started <u>2:23 am</u>
C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00</u>	T-Open <u>4:26 am</u>
D) Initial Shut-In <u>948</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>6:30 am</u>
E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>8:26</u>
F) Second Final Flow <u>33</u>	<input checked="" type="checkbox"/> Mileage <u>11 r/A = 15.40</u>	Comments <u>6% WILL</u>
G) Final Shut-In <u>911</u>	<input type="checkbox"/> Sampler _____	<u>12% WALT</u>
H) Final Hydrostatic <u>1897</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility 150.00

Sub Total 1715.40
 Total 1715.40
 MP/DST Disc't _____

Approved By Craig S. [Signature] Our Representative [Signature]

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.

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RECEIVED
AUG 16 2011

Test Ticket

NO. 43630

Well Name & No. Long Family Partnership Test No. #4 Date 8-12-11
 Company FIML Natural R-s Elevation 2965 KB 2953 GL
 Address 410 17th ST STE 900 Denver CO 80202
 Co. Rep / Geo. Josh Austin Rig H-2 #1
 Location: Sec. 20 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4190-4285 Zone Tested Lansing J+L
 Anchor Length 95 Drill Pipe Run 3830 Mud Wt. 9.1
 Top Packer Depth 4185 Drill Collars Run 369 Vis 65
 Bottom Packer Depth 4190 Wt. Pipe Run 0 WL 8.0
 Total Depth 4285 Chlorides 2600 ppm System LCM 14

Blow Description IF - BOB in 8 min
ISI No Blow
FF - BOB in 10 min
FSI Built to 1 1/2" exceeded to 1 1/4"

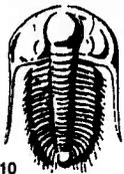
Sec	Feet of	%gas	%oil	%water	%mud
<u>194</u>	<u>G O</u>	<u>20</u>	<u>80</u>		
<u>94</u>	<u>GW MCO</u>	<u>10</u>	<u>40</u>	<u>20</u>	<u>30</u>
<u>282</u>	<u>GW OCM</u>	<u>5</u>	<u>30</u>	<u>20</u>	<u>45</u>
<u>380</u>	<u>OMCW</u>		<u>5</u>	<u>75</u>	<u>20</u>
<u>188</u>	<u>GIP</u>				

Rec Total _____ BHT 121 Gravity 30 API RW .182 @ 72 °F Chlorides 39000 ppm
 A) Initial Hydrostatic 2008 2072 Test 1225 T-On Location 5:14 pm
 B) First Initial Flow 17 36 Jars _____ T-Started 6:32 pm
 C) First Final Flow 26 264 Safety Joint _____ T-Open 8:36 pm
 D) Initial Shut-In 948 878 Circ Sub N/C T-Pulled 11:43 pm
 E) Second Initial Flow 27 271 Hourly Standby _____ T-Out 2:28 Am
 F) Second Final Flow 33 415 Mileage 11 R/T 15.40 Comments Will 6%
 G) Final Shut-In 911 868 Sampler _____ Oil Apt wait 12%
 H) Final Hydrostatic 1897 1962 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1240.40
 Accessibility 150 MP/DST Disc't _____
 Sub Total 1390.40
1240.40 620.26
 Our Representative _____

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

Approved By [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
AUG 16 2011

Test Ticket

NO. 43631

Well Name & No. Long Family Partnership 6A Test No. #5 Date 8-13-11
 Company FIML Natural Res Elevation 2965 KB 2953 GL
 Address 410 17th ST STE 900 Denver CO 80202
 Co. Rep / Geo. Josh Austin Rig N-2 #1
 Location: Sec. 20 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4287 - 4380 Zone Tested Marmaton - Altamont A-C
 Anchor Length 93 Drill Pipe Run 3922 Mud Wt. 9.2
 Top Packer Depth 4282 Drill Collars Run 369 Vis 60
 Bottom Packer Depth 4287 Wt. Pipe Run 0 WL 80
 Total Depth 4380 Chlorides 2600 ppm System LCM 14

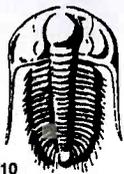
Flow Description IF - B:013 in 6 min
IST - 1 1/2" in 8 min died to 1/2"
FF - B:013 in 7 1/2 min
FSI - 3 1/4" in 45 min Died to 2 1/2"

Sec	Feet of	%gas	%oil	%water	%mud
<u>290</u>	<u>G-0</u>	<u>30</u>	<u>70</u>		
<u>375</u>	<u>G-MO</u>	<u>10</u>	<u>50</u>	<u>40</u>	
<u>470</u>	<u>M-G-0</u>	<u>30</u>	<u>60</u>	<u>10</u>	
	<u>750 GIP</u>				

Rec Total 1135 BHT 135 Gravity 27 API RW 28 @ 76 °F Chlorides _____ ppm
 Test 1225
 Jars _____
 Safety Joint _____
 Circ Sub N/C
 Hourly Standby 1/4 hr 25
 Mileage 11 RT 15.40
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility 150
 Sub Total 1415.40
 T-On Location 12:17 pm
 T-Started 12:54 p.m
 T-Open 3:00 pm
 T-Pulled 7:16 pm
 T-Out 10:32 pm
 Comments well 6%
Walt 12%

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90
 Approved By [Signature]
 Sub Total 1265.40 632.70
 Our Representative [Signature]

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RECEIVED
AUG 16 2011

Test Ticket

NO. 43632

Well Name & No. Long Family Partnership 6A Test No. #6 Date 8-14-11
 Company FIML Natural Res Elevation 2965 KB 2953 GL
 Address 410 17th ST STE 900 Denver CO 80202
 Co. Rep / Geo. Josh Austin Rig H-2#1
 Location: Sec. 20 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4601 - 4618 Zone Tested Mississippi/Spergen
 Anchor Length 17 Drill Pipe Run 4236 Mud Wt. 9.4
 Top Packer Depth 4596 Drill Collars Run 369 Vis 58
 Bottom Packer Depth 4601 Wt. Pipe Run 0 WL 8.8
 Total Depth 4618 Chlorides 2600 ppm System LCM 816

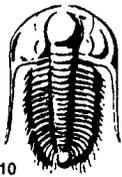
Blow Description IF - Built to 4 1/2 in.
ISI - No Blow
EF - Built to 2 1/4 in
FSI No Blow

Sec	Feet of	%gas	%oil	%water	%mud
<u>280</u>	<u>Feet of WCM</u>		<u>60</u>	<u>40</u>	
<u>75</u>	<u>Feet of MCW (oil spots in tool)</u>		<u>10</u>	<u>90</u>	

Rec Total 355 BHT 141 Gravity API RW 410 @ 60 °F Chlorides 13200 ppm
 A) Initial Hydrostatic 2272 Test 1225 T-On Location 7:28 pm
 B) First Initial Flow 34 Jars T-Started 8:43 pm
 C) First Final Flow 106 Safety Joint T-Open 10:54 pm
 D) Initial Shut-In 1143 Circ Sub N/C T-Pulled 12:59 pm
 E) Second Initial Flow 110 Hourly Standby T-Out 3:17 am
 F) Second Final Flow 174 Mileage 11 R/T 15.40 Comments W.11 6%
 G) Final Shut-In 1132 Sampler W.12 12%
 H) Final Hydrostatic 2136 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder
 Day Standby
 Accessibility 150 Sub Total 1390.40
 Sub Total 1390.40 MP/DST Disc't

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Approved By [Signature]
 Our Representative [Signature]

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P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43628

AUG 16 2011

Well Name & No. Long Family Partnership Test No. #3 Date 8-16-11
 Company FIML Natural Res Elevation 2965 KB 2953 GL
 Address 410 17th St. STE 900 Denver CO 80202
 Co. Rep / Geo. Josh Austin Rig H-2 #1
 Location: Sec. 20 Twp. 18 Rge. 31 Co. Scott State K5

Interval Tested 4104 - 4175 Zone Tested Lansing - 'G + H'
 Anchor Length 71 Drill Pipe Run 3734 Mud Wt. 9.0
 Top Packer Depth 4099 Drill Collars Run 369 Vis 58
 Bottom Packer Depth 4104 Wt. Pipe Run 0 WL 8.0
 Total Depth 4175 Chlorides 1700 ppm System LCM 16
 Blow Description IF - BOB in 9 min
ISI - No Blow
EF - BOB in 13 min
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>470</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
<u>368</u>	<u>MCW</u>	<u>20</u>	<u>60</u>	<u>20</u>	
<u>128</u>	<u>WOCM</u>	<u>30</u>	<u>20</u>	<u>50</u>	
<u>60</u>	<u>Free oil</u>	<u>100</u>			

Rec Total 1026 BHT 132 Gravity 25 API RW 467 @ 75° F Chlorides 3900 ppm
 (A) Initial Hydrostatic 2042 Test 1225 T-On Location 7:20 p.m
 (B) First Initial Flow 28 Jars T-Started 9:04 pm
 (C) First Final Flow 261 Safety Joint T-Open 11:36 p.m
 (D) Initial Shut-In 890 Circ Sub N/C T-Pulled 3:24 am
 (E) Second Initial Flow 259 Hourly Standby 1hr 100 T-Out 6:17 am
 (F) Second Final Flow 467 Mileage 11 RT 15.40 Comments will 6%
 (G) Final Shut-In 890 Sampler Walt 12%
 (H) Final Hydrostatic 1948 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer 260
 Extra Packer Extra Copies
 Extra Recorder Sub Total 260
 Day Standby Total 1750.40
 Accessibility 150 MP/DST Disc't

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90
 Sub Total 1490.4
 Our Representative 1340.40/670.20
 Approved By Craig S. HPC Will Mad

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