

DRILL STEM TEST REPORT

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

410 17th. ST STE 900
Denver CO 80202

ATTN: Jim Musgrove

Kuenstier #9-B

29-18-31 Scott,KS

Start Date: 2011.12.13 @ 13:48:15

End Date: 2011.12.13 @ 20:44:30

Job Ticket #: 44910 DST #: 1

FIML Natural Resources, LLC
29-18-31 Scott,KS
Kuenstier #9-B
DST # 1
Lansing "I"
2011.12.13

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

ORIGINAL

Printed: 2011.12.22 @ 07:52:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

29-18-31 Scott, KS

410 17th. ST STE 900
Denver CO 80202

Kuentier #9-B

Job Ticket: 44910

DST#: 1

ATTN: Jim Musgrove

Test Start: 2011.12.13 @ 13:48:15

GENERAL INFORMATION:

Formation: **Lansing "I"**

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

Time Tool Opened: 15:57:45

Time Test Ended: 20:44:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: **4200.00 ft (KB) To 4220.00 ft (KB) (TVD)**

Total Depth: 4220.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2971.00 ft (KB)

2961.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6668

Outside

Press@RunDepth: 538.77 psig @ 4215.00 ft (KB)

Start Date: 2011.12.13

End Date:

2011.12.13

Start Time: 11:40:00

End Time:

18:36:15

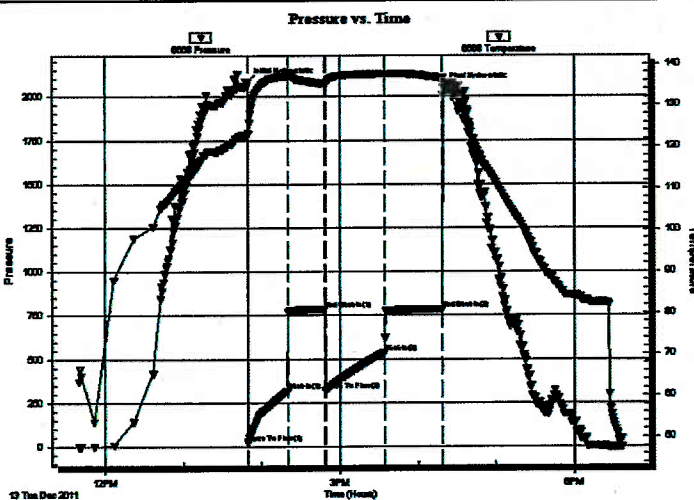
Capacity: 8000.00 psig

Last Calib.: 2011.12.19

Time On Btrr: 2011.12.13 @ 13:49:15

Time Off Btrr: 2011.12.13 @ 16:19:30

TEST COMMENT: IF:BOB in 7 min.
IS:No return blow
FF:BOB in 8 min.
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2083.15	123.22	Initial Hydro-static
1	24.38	122.71	Open To Flow (1)
31	318.90	137.00	Shut-In(1)
59	785.74	135.14	End Shut-In(1)
60	320.11	135.01	Open To Flow (2)
106	538.77	137.52	Shut-In(2)
150	785.53	136.53	End Shut-In(2)
151	2054.11	135.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
371.00	sw 100%w	1.92
651.00	mw 80%w 20%m	9.13

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources, LLC

29-18-31 Scott, KS

410 17th. ST STE 900
Denver CO 80202

Kuenstler #9-B

Job Ticket: 44910

DST#: 1

ATTN: Jim Musgrove

Test Start: 2011.12.13 @ 13:48:15

Tool Information

Drill Pipe:	Length: 3842.00 ft	Diameter: 3.80 inches	Volume: 53.89 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 360.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose: 80000.00 lb
		<u>Total Volume:</u>	<u>55.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4200.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 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			4181.00	
Shut In Tool	5.00			4186.00	
Hydraulic tool	5.00			4191.00	
Packer	5.00			4196.00	20.00 Bottom Of Top Packer
Packer	4.00			4200.00	
Stubb	1.00			4201.00	
Perforations	14.00			4215.00	
Recorder	0.00	8358	Inside	4215.00	
Recorder	0.00	6668	Outside	4215.00	
Bullnose	5.00			4220.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources, LLC

29-18-31 Scott,KS

410 17th. ST STE900
Denver CO 80202

Kuenstier #9-B

Job Ticket: 44910

DST#: 1

ATTN: Jim Musgrove

Test Start: 2011.12.13 @ 13:48:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
371.00	sw 100%w	1.925
651.00	mw 80%w 20%m	9.132

Total Length: 1022.00ft Total Volume: 11.057 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

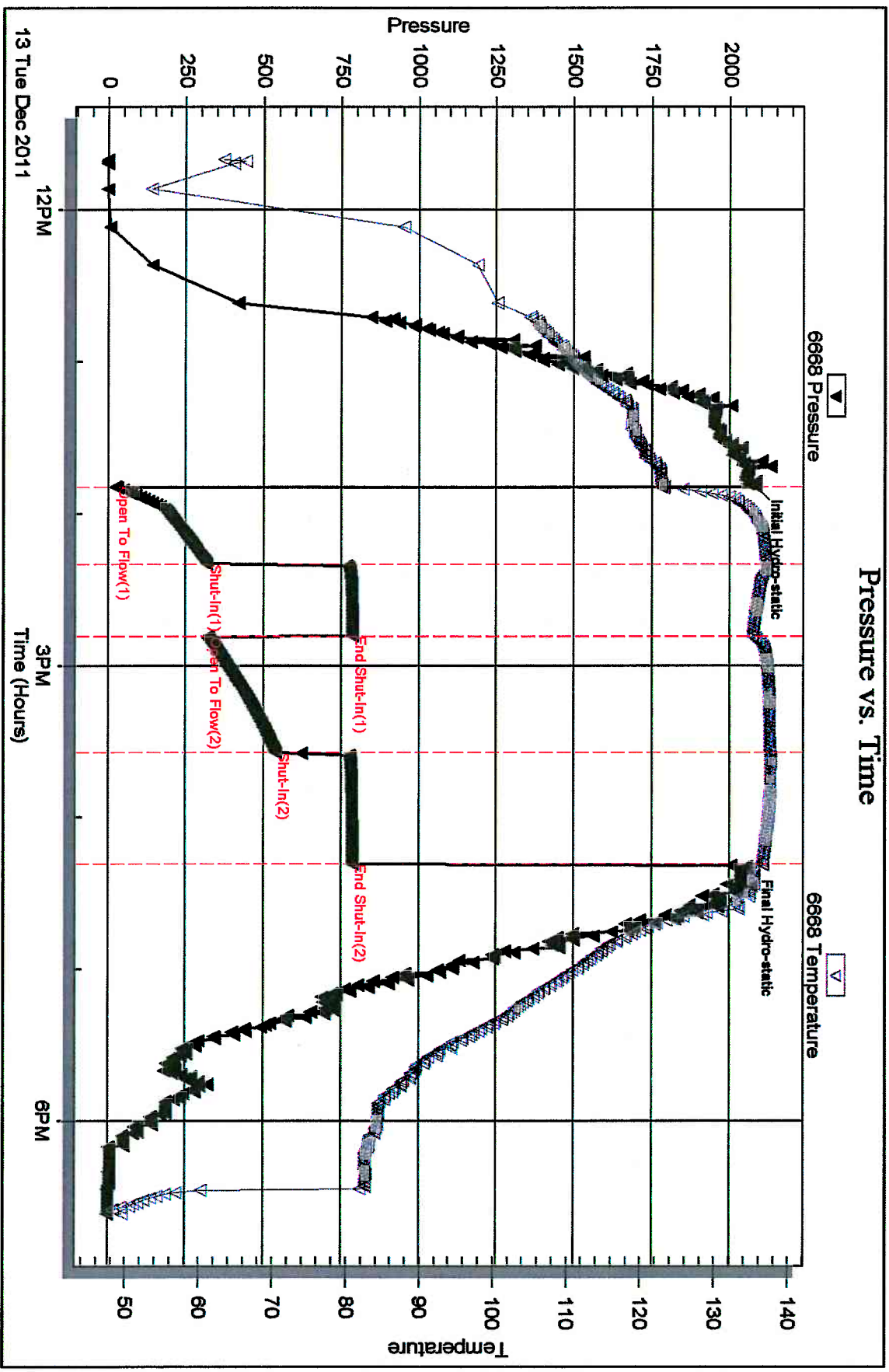
Recovery Comments: RW= .621@ 48*=19,000ppm

Serial #: 6668

Outside F.M.L. Natural Resources, LLC

Kuenster #9-B

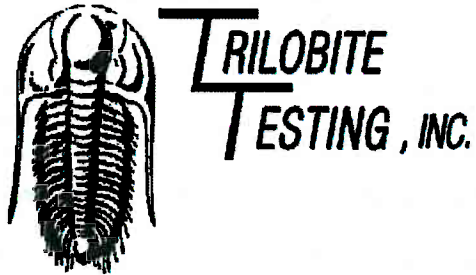
DST Test Number: 1



Thibode Testing, Inc

Ref. No: 44910

Printed: 2011.12.22 @ 07:52:37



DRILL STEM TEST REPORT

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

410 17th. ST STE 900
Denver CO 80202

ATTN: Jim Musgrove

Kuenstier #9-B

29-18-31 Scott,KS

Start Date: 2011.12.14 @ 10:15:15

End Date: 2011.12.14 @ 17:37:00

Job Ticket #: 44911 DST #: 2

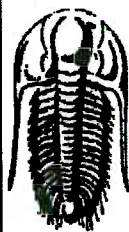
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.22 @ 07:53:04

FIML Natural Resources, LLC
29-18-31 Scott,KS
Kuenstier #9-B
DST # 2
J-K-L
2011.12.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

29-18-31 Scott, KS

410 17th. ST STE 900
Denver CO 80202

Kuenstier #9-B

Job Ticket: 44911

DST#: 2

ATTN: Jim Musgrove

Test Start: 2011.12.14 @ 10:15:15

GENERAL INFORMATION:

Formation: **J-K-L**

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

Time Tool Opened: **12:19:15**

Time Test Ended: **17:37:00**

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Mike Roberts**

Unit No: **48**

Interval: **4228.00 ft (KB) To 4330.00 ft (KB) (TVD)**

Reference Elevations: **2971.00 ft (KB)**

Total Depth: **4330.00 ft (KB) (TVD)**

2961.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **10.00 ft**

Serial #: 6668

Outside

Press@RunDepth: **319.83 psig @ 4230.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.12.14**

End Date:

2011.12.14

Last Calib.: **2011.12.14**

Start Time: **10:15:15**

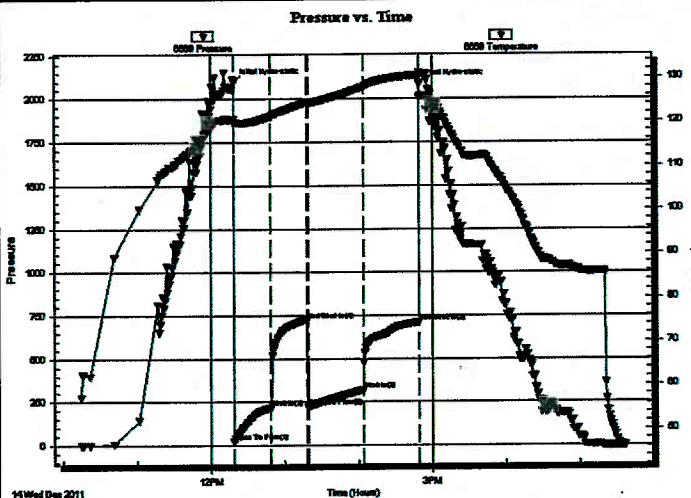
End Time:

17:37:00

Time On Btm: **2011.12.14 @ 12:19:00**

Time Off Btm: **2011.12.14 @ 14:49:30**

TEST COMMENT: IF: BOB in 12 min.
IS: No return blow
FF: BOB in 32 min.
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2096.16	120.46	Initial Hydro-static
1	24.86	119.68	Open To Flow (1)
30	218.76	121.08	Shut-In(1)
60	724.99	124.27	End Shut-In(1)
60	223.43	124.15	Open To Flow (2)
105	319.83	127.81	Shut-In(2)
150	709.83	130.39	End Shut-In(2)
151	2088.86	131.05	Final Hydro-static

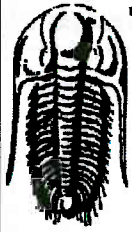
Recovery

Length (ft)	Description	Volums (bbl)
372.00	mud w ith oil spots	1.94
371.00	mcs w 16% m 84% sw	5.20

* 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

29-18-31 Scott, KS

410 17th. ST STE 900
Denver CO 80202

Kuenstier #9-B

Job Ticket: 44911

DST#: 2

ATTN: Jim Musgrove

Test Start: 2011.12.14 @ 10:15:15

Tool Information

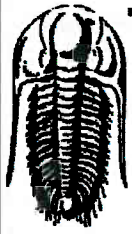
Drill Pipe:	Length: 3879.00 ft	Diameter: 3.80 inches	Volume: 54.41 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 360.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4228.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	122.00 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			4209.00	
Shut In Tool	5.00			4214.00	
Hydraulic tool	5.00			4219.00	
Packer	5.00			4224.00	20.00 Bottom Of Top Packer
Packer	4.00			4228.00	
Stubb	1.00			4229.00	
Perforations	1.00			4230.00	
Recorder	0.00	8358	Inside	4230.00	
Recorder	0.00	6668	Outside	4230.00	
Change Over Sub	1.00			4231.00	
Drill Pipe	93.00			4324.00	
Change Over Sub	1.00			4325.00	
Bullnose	5.00			4330.00	102.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources, LLC

29-18-31 Scott,KS

410 17th. ST STE 900
Denver CO 80202

Kuenstler #9-B

Job Ticket: 44911

DST#: 2

ATTN: Jim Musgrove

Test Start: 2011.12.14 @ 10:15:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.17 in³
Resistivity: 0.00 ohm.m
Salinity: 2400.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 23000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	mud with oil spots	1.939
371.00	mcsw 16%m 84%sw	5.204

Total Length: 743.00 ft Total Volume: 7.143 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

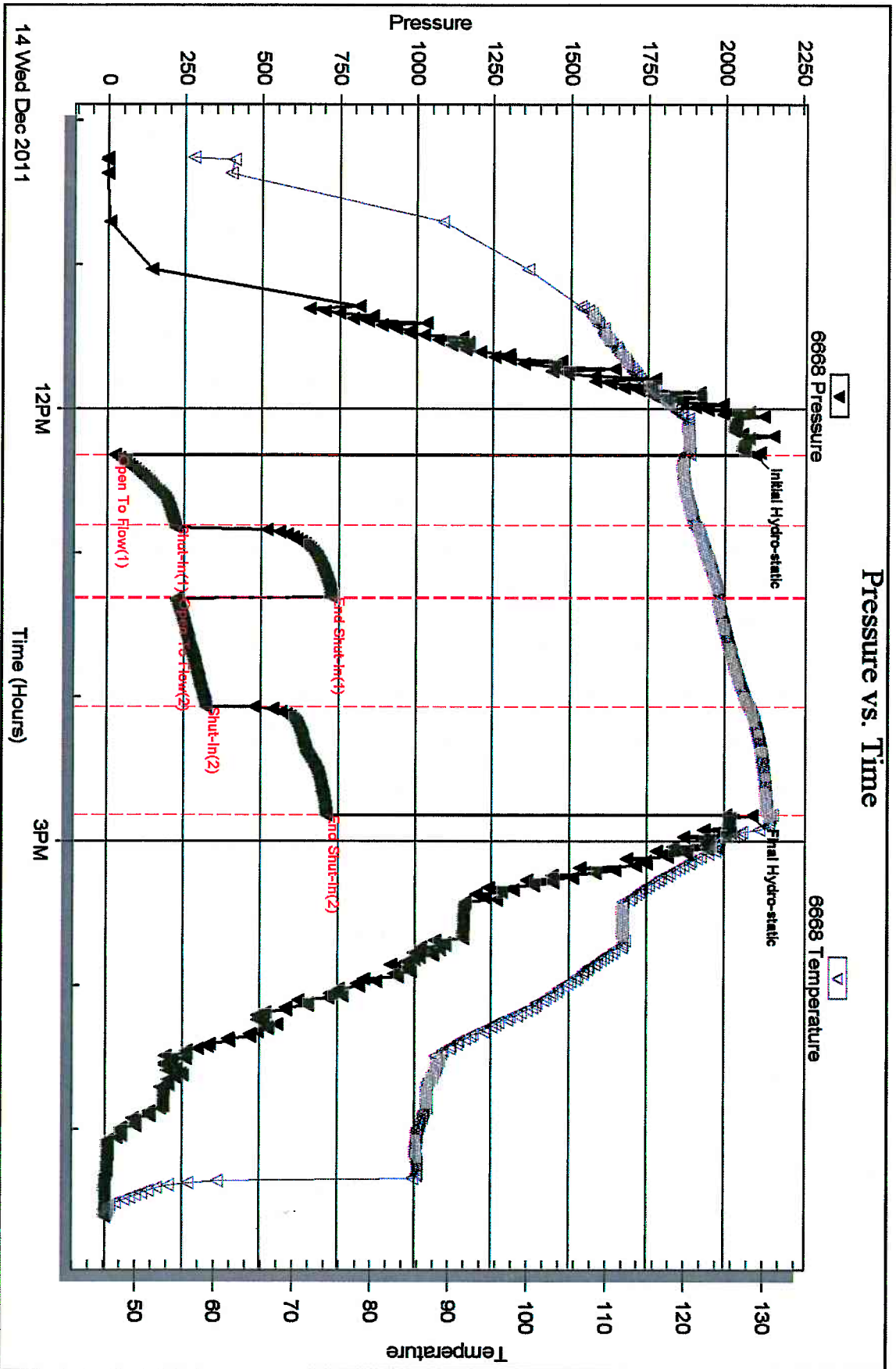
Recovery Comments: RW= .460 @ 50.8" = 23,000 ppm

Serial #: 6668

Outside F.M. Natural Resources, LLC

Kuenster #9-B

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 44911

Printed: 2011.12.22 @ 07:53:06



DRILL STEM TEST REPORT

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

410 17th. ST STE 900
Denver CO 80202

ATTN: Jim Musgrove

Kuenstier #9-B

29-18-31 Scott,KS

Start Date: 2011.12.15 @ 07:15:15

End Date: 2011.12.15 @ 12:57:15

Job Ticket #: 44912 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.22 @ 07:53:41

FIML Natural Resources, LLC
29-18-31 Scott,KS
Kuenstier #9-B
DST # 3
Marmaton A-B-C
2011.12.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

29-18-31 Scott,KS

410 17th. ST STE900
Denver CO 80202

Kuenstier #9-B

Job Ticket: 44912

DST#: 3

ATTN: Jim Musgrove

Test Start: 2011.12.15 @ 07:15:15

GENERAL INFORMATION:

Formation: **Marmaton A-B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:02:30

Time Test Ended: 12:57:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: **4328.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Reference Elevations: 2971.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

2961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6668

Outside

Press@RunDepth: 57.00 psig @ 4334.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.15

End Date: 2011.12.15

Last Calib.: 2011.12.15

Start Time: 07:15:15

End Time: 12:57:15

Time On Btmr 2011.12.15 @ 09:02:15

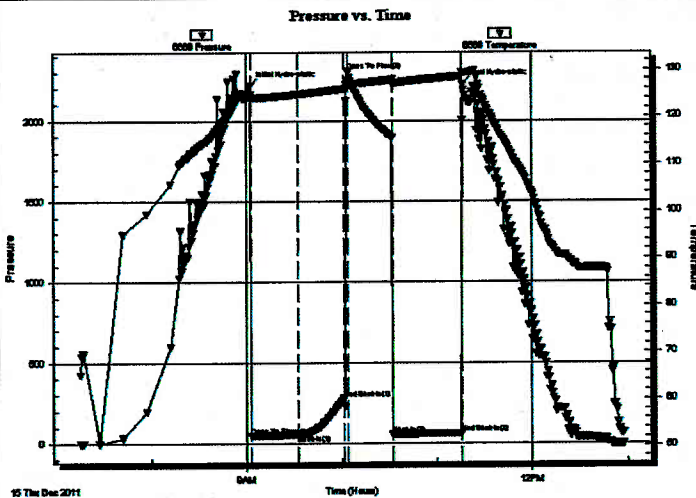
Time Off Btmr 2011.12.15 @ 11:16:15

TEST COMMENT: IF:No blow

IS:No return blow

FF:No blow ---Flushed tool ----No blow

FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2217.50	124.78	Initial Hydro-static
1	49.67	123.75	Open To Flow (1)
31	53.59	124.74	Shut-In(1)
59	279.53	125.87	End Shut-In(1)
62	2310.34	127.01	Open To Flow (2)
90	57.00	126.78	Shut-In(2)
134	60.59	128.56	End Shut-In(2)
134	2222.35	129.37	Final Hydro-static

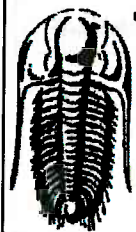
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% _m	0.05

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

29-18-31 Scott,KS

410 17th. ST STE 900
Denver CO 80202

Kuenstler #9-B

Job Ticket: 44912

DST#: 3

ATTN: Jim Musgrove

Test Start: 2011.12.15 @ 07:15:15

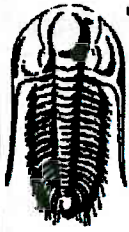
Tool Information

Drill Pipe:	Length: 3973.00 ft	Diameter: 3.80 inches	Volume: 55.73 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 360.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	57.50 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4328.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	112.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Flushed tool on 2nd open to soon.

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4309.00	
Shut In Tool	5.00			4314.00	
Hydraulic tool	5.00			4319.00	
Packer	5.00			4324.00	20.00 Bottom Of Top Packer
Packer	4.00			4328.00	
Stubb	1.00			4329.00	
Perforations	5.00			4334.00	
Recorder	0.00	8358	Inside	4334.00	
Recorder	0.00	6668	Outside	4334.00	
Change Over Sub	1.00			4335.00	
Drill Pipe	64.00			4399.00	
Change Over Sub	1.00			4400.00	
Perforations	15.00			4415.00	
Bullnose	5.00			4420.00	92.00 Bottom Packers & Anchor
Total Tool Length:	112.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

29-18-31 Scott,KS

410 17th. ST STE900
Denver CO 80202

Kuenstier #9-B

Job Ticket: 44912

DST#: 3

ATTN: Jim Musgrove

Test Start: 2011.12.15 @ 07:15:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100% _m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: .

Laboratory Name:

Laboratory Location:

Recovery Comments:

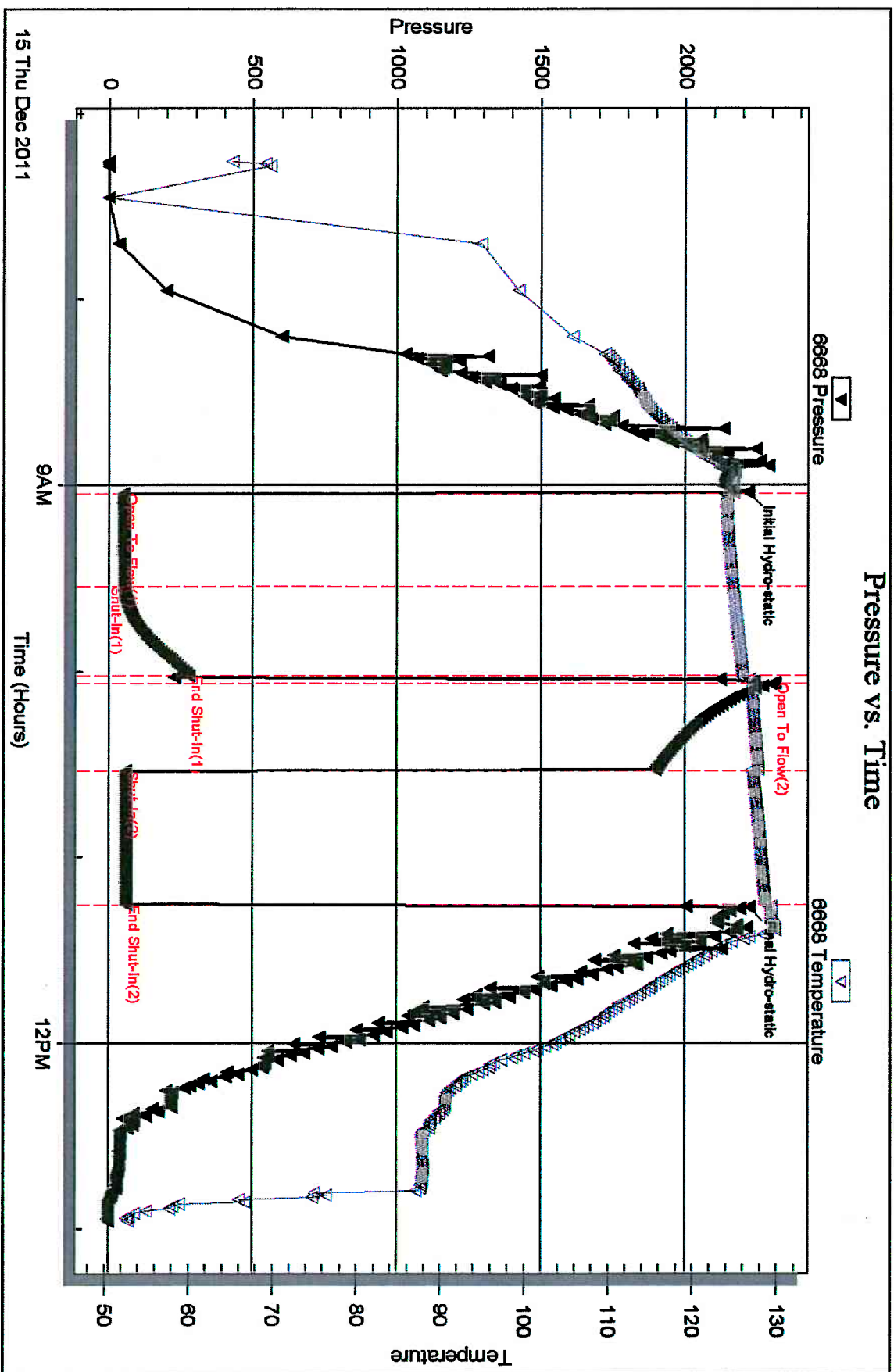
Serial #: 6688

Outside FML Natural Resources, LLC

Kuenster #9-B

DST Test Number: 3

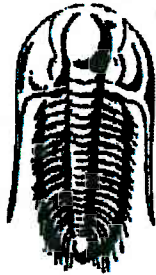
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44912

Printed: 2011.12.22 @ 07:53:43



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

410 17th. ST STE 900
Denver CO 80202

ATTN: Jim Musgrove

Kuenstier #9-B

29-18-31 Scott,KS

Start Date: 2011.12.16 @ 13:00:15

End Date: 2011.12.16 @ 20:20:45

Job Ticket #: 44913 DST #: 4

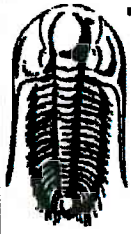
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.22 @ 07:54:10

FIML Natural Resources, LLC 29-18-31 Scott,KS Kuenstier #9-B DST # 4 Spergen 2011.12.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

29-18-31 Scott,KS

410 17th. ST STE900
Denver CO 80202

Kuenstier #9-B

Job Ticket: 44913

DST#: 4

ATTN: Jim Musgrove

Test Start: 2011.12.16 @ 13:00:15

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:55:45

Time Test Ended: 20:20:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: **4608.00 ft (KB) To 4660.00 ft (KB) (TVD)**

Total Depth: 4660.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2971.00 ft (KB)

2961.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6668

Outside

Press@RunDepth: 653.70 psig @ 4615.00 ft (KB)

Start Date: 2011.12.16

End Date: 2011.12.16

Start Time: 13:00:15

End Time: 20:20:45

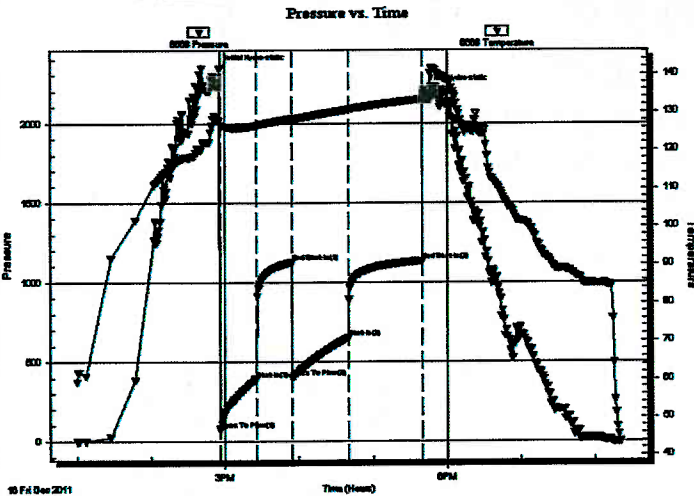
Capacity: 8000.00 psig

Last Calib.: 2011.12.16

Time On Btm: 2011.12.16 @ 14:55:30

Time Off Btm: 2011.12.16 @ 17:41:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2345.50	127.74	Initial Hydro-static
1	71.64	126.64	Open To Flow (1)
30	393.57	126.39	Shut-In(1)
59	1125.15	128.34	End Shut-In(1)
59	401.43	127.99	Open To Flow (2)
105	653.70	130.58	Shut-In(2)
165	1134.14	133.27	End Shut-In(2)
166	2212.15	133.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1022.00	sw 100% sw	11.06
279.00	mcw s 40% m 60% sw	3.91

* 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

29-18-31 Scott, KS

410 17th. ST STE 900
Denver CO 80202

Kuenstler #9-B

Job Ticket: 44913

DST#: 4

ATTN: Jim Musgrove

Test Start: 2011.12.16 @ 13:00:15

Tool Information

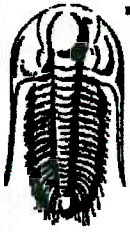
Drill Pipe:	Length: 4253.00 ft	Diameter: 3.80 inches	Volume: 59.66 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 360.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	61.43 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4608.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 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			4589.00	
Shut In Tool	5.00			4594.00	
Hydraulic tool	5.00			4599.00	
Packer	5.00			4604.00	20.00 Bottom Of Top Packer
Packer	4.00			4608.00	
Stubb	1.00			4609.00	
Perforations	6.00			4615.00	
Recorder	0.00	8358	Inside	4615.00	
Recorder	0.00	6668	Outside	4615.00	
Change Over Sub	1.00			4616.00	
Drill Pipe	31.00			4647.00	
Change Over Sub	1.00			4648.00	
Perforations	7.00			4655.00	
Bullnose	5.00			4660.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

29-18-31 Scott,KS

410 17th. ST STE 900
Denver CO 80202

Kuenstler #9-B

Job Ticket: 44913

DST#: 4

ATTN: Jim Musgrove

Test Start: 2011.12.16 @ 13:00:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1022.00	sw 100% sw	11.057
279.00	mcws 40% m 60% sw	3.914

Total Length: 1301.00 ft Total Volume: 14.971 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

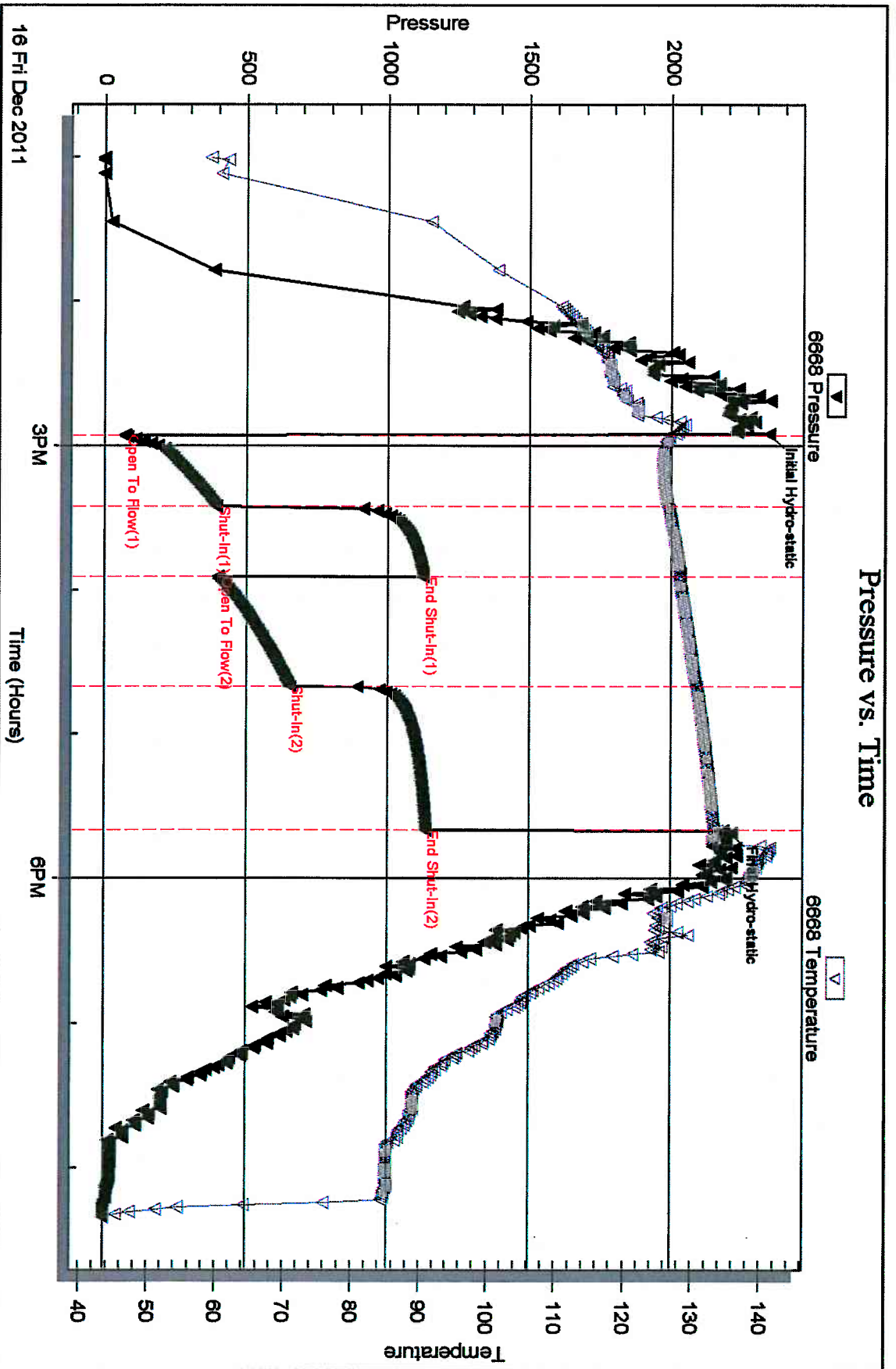
Recovery Comments: RW= .470@42.7*=25,000 ppm

Serial #: 6668

Outside F.M.L. Natural Resources, LLC

Kuenster #9-B

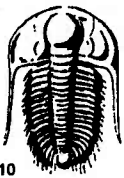
DST Test Number: 4



Thiobite Testing, Inc

Ref. No: 44913

Printed: 2011.12.22 @ 07:54:12



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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DEC 16 2011
BY: _____

Test Ticket

NO. 44910

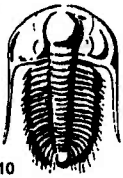
Well Name & No. Kuenstier 9-B Test No. 1 Date 12-13-11
 Company FIML Natural Resources LLC Elevation 2971 KB 2961 GL
 Address 410 17th ST STE 900 Denver CO 80202
 Co. Rep / Geo. Jim Musgrove Rig H2#1
 Location: Sec. 29 Twp. 18 Rge 31 Co. SCOTT State KS

Interval Tested 4200-4220 Zone Tested "I"
 Anchor Length 20 Drill Pipe Run 3842 Mud Wt. 9.2
 Top Packer Depth 4196 Drill Collars Run 360 Vis 49
 Bottom Packer Depth 4200 Wt. Pipe Run 0 WL 6.4
 Total Depth 4220 Chlorides 1500 ppm System LCM 4
 Blow Description IF: BOB in 7 Min
FS: No Return Blow
FF: BOB in 8 Min.
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>651</u>	<u>SW</u>			<u>80</u>	<u>20</u>
<u>371</u>	<u>SW</u>			<u>100</u>	

Rec Total 1022 BHT 135 Gravity — API RW 1621 @ 48.4° F Chlorides 19000 ppm
 (A) Initial Hydrostatic 2083 Test 1225.00 T-On Location 10:30 Am
 (B) First Initial Flow 29 Jars T-Started 11:40
 (C) First Final Flow 318 Safety Joint T-Open 13:48
 (D) Initial Shut-In 785 Circ Sub NC T-Pulled 16:18
 (E) Second Initial Flow 320 Hourly Standby T-Out 20:44
 (F) Second Final Flow 538 Mileage 20 RT = 28.00 Comments _____
 (G) Final Shut-In 785 Sampler _____
 (H) Final Hydrostatic 2054 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility 150.00
 Sub Total 1403.00
 1253
 Approved By [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 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.



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Test Ticket

NO. 44911

Well Name & No. Kuenstier 9-B Test No. 2 Date 12-14-11
 Company F1 ML Natural Resources LLC Elevation 2971 KB 2961 GL
 Address 410 17th ST STE 900 DENVER CO 80202
 Co. Rep / Geo. Jim Musgrave Rig H2 #1
 Location: Sec. 29 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4228-4330 Zone Tested J-K-L
 Anchor Length 102 Drill Pipe Run 3879 Mud Wt. 9.2
 Top Packer Depth 4224 Drill Collars Run 371 Vis 54
 Bottom Packer Depth 4228 Wt. Pipe Run 0 WL 7.2
 Total Depth 4330 Chlorides 2400 ppm System LCM 4

Blow Description FF: BOB IN 12 MIN
IS: No Return Blow
FF: BOB IN 32 MIN
FS: No Return Blow

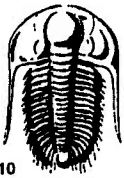
Rec	Feet of	%gas	%oil	%water	%mud
<u>372</u>	<u>Mud with oil spots</u>			<u>100</u>	
<u>371</u>	<u>mcsu</u>		<u>84</u>	<u>16</u>	

Rec Total 743 BHT 131 Gravity 1225.00 API RW 460 @ 50.8° F Chlorides 23,000 ppm
 (A) Initial Hydrostatic 2096 Test
 (B) First Initial Flow 24 Jars
 (C) First Final Flow 218 Safety Joint
 (D) Initial Shut-In 724 Circ Sub NL
 (E) Second Initial Flow 223 Hourly Standby
 (F) Second Final Flow 319 Mileage 20 RT = \$28.00
 (G) Final Shut-In 709 Sampler
 (H) Final Hydrostatic 2088 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility 150.00/-
 T-On Location 09:15
 T-Started 10:15
 T-Open 12:18
 T-Pulled 14:48
 T-Out 17:37
 Comments _____

Initial Open 30 Ruined Shale Packer
 Initial Shut-In 30 Ruined Packer
 Final Flow 45 Extra Copies
 Final Shut-In 45 Sub Total 8
 Total 1403
 MP/DST Disc't _____

Approved By [Signature] Sub Total \$1403.00/- Our Representative Mike Roberts

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RECEIVED
DEC 16 2011

Test Ticket

NO. 44912

Well Name & No. Kuenstier 9-B Test No. 3 Date 12-15-11
 Company FIML Natural Resources Elevation 2971 KB 2961 GL
 Address 410 17th ST STE 900 Denver CO 80202
 Co. Rep / Geo. Jim Musgrove Rig H2 1
 Location: Sec. 29 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4328-4420 Zone Tested Marmaton A-B-C
 Anchor Length 92' Drill Pipe Run 3973 Mud Wt. 9.2
 Top Packer Depth 4324 Drill Collars Run 371 Vis 54
 Bottom Packer Depth 4328 Wt. Pipe Run 0 WL 2.4
 Total Depth 4420 Chlorides 2400 ppm System LCM 4

Blow Description IF: No Blow
IS: No Return Blow
FF: No Blow - Flushed tool- NO Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>m</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 126 Gravity 1 API RW 1 @ 1 °F Chlorides 1 ppm

(A) Initial Hydrostatic 2217 Test 1225.00 T-On Location 06:30
 (B) First Initial Flow 49 Jars _____ T-Started 07:15
 (C) First Final Flow 53 Safety Joint _____ T-Open 09:00
 (D) Initial Shut-In 279 Circ Sub _____ T-Pulled 11:15
 (E) Second Initial Flow 57 Hourly Standby _____ T-Out 12:57
 (F) Second Final Flow 60 Mileage 20 RT = 28.00 Comments Flushed tool
 (G) Final Shut-In 220 Sampler _____ on 2nd open Before
 (H) Final Hydrostatic 2222 Straddle _____ 2nd Flow Period.
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open 30 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 45 Accessibility 150.00
 Sub Total 1403.00 MP/DST Disc't _____
 Sub Total 1253

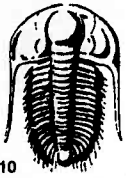
Approved By [Signature] Our Representative Mike Roberts

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1. The first part of the test is a
 2. The second part is a
 3. The third part is a
 4. The fourth part is a
 5. The fifth part is a
 6. The sixth part is a
 7. The seventh part is a
 8. The eighth part is a
 9. The ninth part is a
 10. The tenth part is a

Item	Description	Quantity	Unit	Value
1	...	1	...	...
2	...	1	...	...
3	...	1	...	...
4	...	1	...	...
5	...	1	...	...
6	...	1	...	...
7	...	1	...	...
8	...	1	...	...
9	...	1	...	...
10	...	1	...	...



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 19 2011

Test Ticket

NO. 44913

BY: _____

Well Name & No. <u>Kuentier 9-B</u>	Test No. <u>4</u>	Date <u>12-16-11</u>
Company <u>FIML Natural Resources</u>	Elevation <u>2971</u>	KB <u>2961</u> GL
Address <u>410 17th ST STE 900 Denver Co 80202</u>		
Co. Rep / Geo. <u>Jim Musgrove</u>	Rig <u>H2 1</u>	
Location: Sec. <u>29</u> Twp. <u>18</u> Rge. <u>31</u>	Co. <u>SCOTT</u>	State <u>KS</u>

Interval Tested <u>4608-4660</u>	Zone Tested <u>Wagon Wheel Spergen</u>
Anchor Length <u>52'</u>	Drill Pipe Run <u>4253</u> Mud Wt. <u>9.2</u>
Top Packer Depth <u>4604</u>	Drill Collars Run <u>371</u> Vis <u>69</u>
Bottom Packer Depth <u>4608</u>	Wt. Pipe Run <u>Ø</u> WL <u>7.2</u>
Total Depth <u>4660</u>	Chlorides <u>2200</u> ppm System LCM <u>4</u>
Blow Description <u>IF: BOB in 5 Min</u>	
<u>IS: No Return Blow</u>	
<u>FF: BOB in 5 Min</u>	
<u>FS: No Return Blow</u>	

Rec	Feet of	%gas	%oil	%water	%mud
<u>279</u>	<u>Feet of MCSW</u>		<u>60</u>	<u>40</u>	
<u>1022</u>	<u>Feet of SW</u>		<u>100</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total <u>1301</u>	BHT <u>135</u>	Gravity <u>-</u>	API RW <u>470 @ 42.7° F</u>	Chlorides <u>25,000</u> ppm
(A) Initial Hydrostatic <u>2345</u>	<input checked="" type="checkbox"/> Test <u>1225.00</u>	T-On Location <u>12:20</u>		
(B) First Initial Flow <u>71</u>	<input type="checkbox"/> Jars	T-Started <u>1:00</u>		
(C) First Final Flow <u>393</u>	<input type="checkbox"/> Safety Joint	T-Open <u>14:56</u>		
(D) Initial Shut-In <u>1125</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>17:40</u>		
(E) Second Initial Flow <u>401</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:20</u>		
(F) Second Final Flow <u>653</u>	<input checked="" type="checkbox"/> Mileage <u>20 RT = \$28.00</u>	Comments		
(G) Final Shut-In <u>1134</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic <u>2212</u>	<input type="checkbox"/> Straddle			
	<input type="checkbox"/> Shale Packer			
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer			
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder			
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby			
Final Shut-In <u>60</u>	<input checked="" type="checkbox"/> Accessibility <u>\$150.00</u>			
	Sub Total <u>\$403.00</u>			
	<u>253</u>			

Approved By [Signature] Our Representative Mike Roberts

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