

DRILL STEM TEST REPORT

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

410 17th ST Ste 900
Denver, CO 80202

ATTN: Josh Austin/Gary Duke

21-18s-31w Scott

Grube 13A-21-1831

Start Date: 2010.08.14 @ 01:24:15

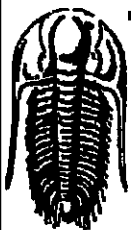
End Date: 2010.08.14 @ 08:49:45

Job Ticket #: 39645 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39645

DST#: 1

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.14 @ 01:24:15

GENERAL INFORMATION:

Formation: **Lans G**

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

Time Tool Opened: 03:21:15

Time Test Ended: 08:49:45

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4093.00 ft (KB) To 4140.00 ft (KB) (TVD)**

Total Depth: **4140.00 ft (KB) (TVD)**

Hole Diameter: **7.88 Inches** Hole Condition: **Fair**

Reference Elevations: **2963.00 ft (KB)**

2951.00 ft (CF)

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

Serial #: **8166**

Inside

Press@RunDepth: **732.29 psig @ 4094.00 ft (KB)**

Start Date: **2010.08.14**

End Date:

2010.08.14

Capacity: **8000.00 psig**

Last Calib.: **2010.08.14**

Start Time: **01:24:15**

End Time:

08:49:45

Time On Btm: **2010.08.14 @ 03:21:00**

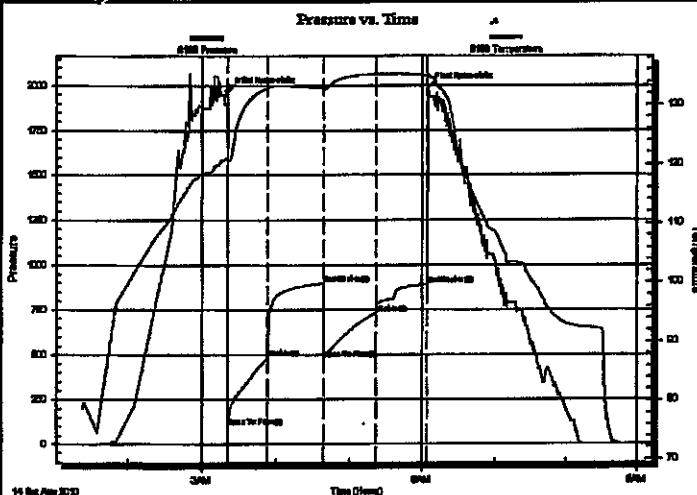
Time Off Btm: **2010.08.14 @ 06:05:00**

TEST COMMENT: **IF: BOB in 2 1/2 mins.**

IS: No return.

FF: BOB in 4 mins.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1965.72	120.97	Initial Hydro-static
1	103.88	120.35	Open To Flow (1)
33	482.65	132.89	Shut-In(1)
78	894.45	132.91	End Shut-In(1)
78	479.32	132.77	Open To Flow (2)
121	732.29	135.21	Shut-In(2)
164	891.92	134.93	End Shut-In(2)
164	1990.94	135.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100% m	0.15
1335.00	SMCW 95% w 5% m	16.81
310.00	O&MCW 10% o 60% w 40% m	4.35
30.00	SWCO 95% o 5% w	0.42
0.00	API = 27 @ 70F = 28 corrected	0.00
0.00	RW = .192 @ 70F = 39000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39645

DST#: 1

ATTN: Josh Austin/Gary Duke Denver, CO 80202

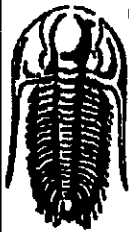
Test Start: 2010.08.14 @ 01:24:15

Tool Information

Drill Pipe:	Length: 3862.00 ft	Diameter: 3.80 inches	Volume: 54.17 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: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 55.35 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4093.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	67.00 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			4074.00	
Shut In Tool	5.00			4079.00	
Hydraulic tool	5.00			4084.00	
Packer	5.00			4089.00	20.00 Bottom Of Top Packer
Packer	4.00			4093.00	
Stubb	1.00			4094.00	
Recorder	0.00	8322	Inside	4094.00	
Recorder	0.00	8166	Inside	4094.00	
Perforations	10.00			4104.00	
Change Over Sub	1.00			4105.00	
Drill Pipe	31.00			4136.00	
Change Over Sub	1.00			4137.00	
Bullnose	3.00			4140.00	47.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39645

DST#: 1

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.14 @ 01:24:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 7.15 in³

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbf

psig

Oil API:

28 deg API

Water Salinity:

39000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	M 100%m	0.148
1335.00	SMCW 85%w 5%m	16.814
310.00	O&MCW 10%o 50%w 40%m	4.348
30.00	SWCO 85%o 5%w	0.421
0.00	API = 27@70F = 28 corrected	0.000
0.00	RW = .182@70F = 39000 ppm	0.000
0.00	GIP = 0	0.000

Total Length: 1705.00 ft

Total Volume: 21.731 bbf

Num Fluid Samples: 0

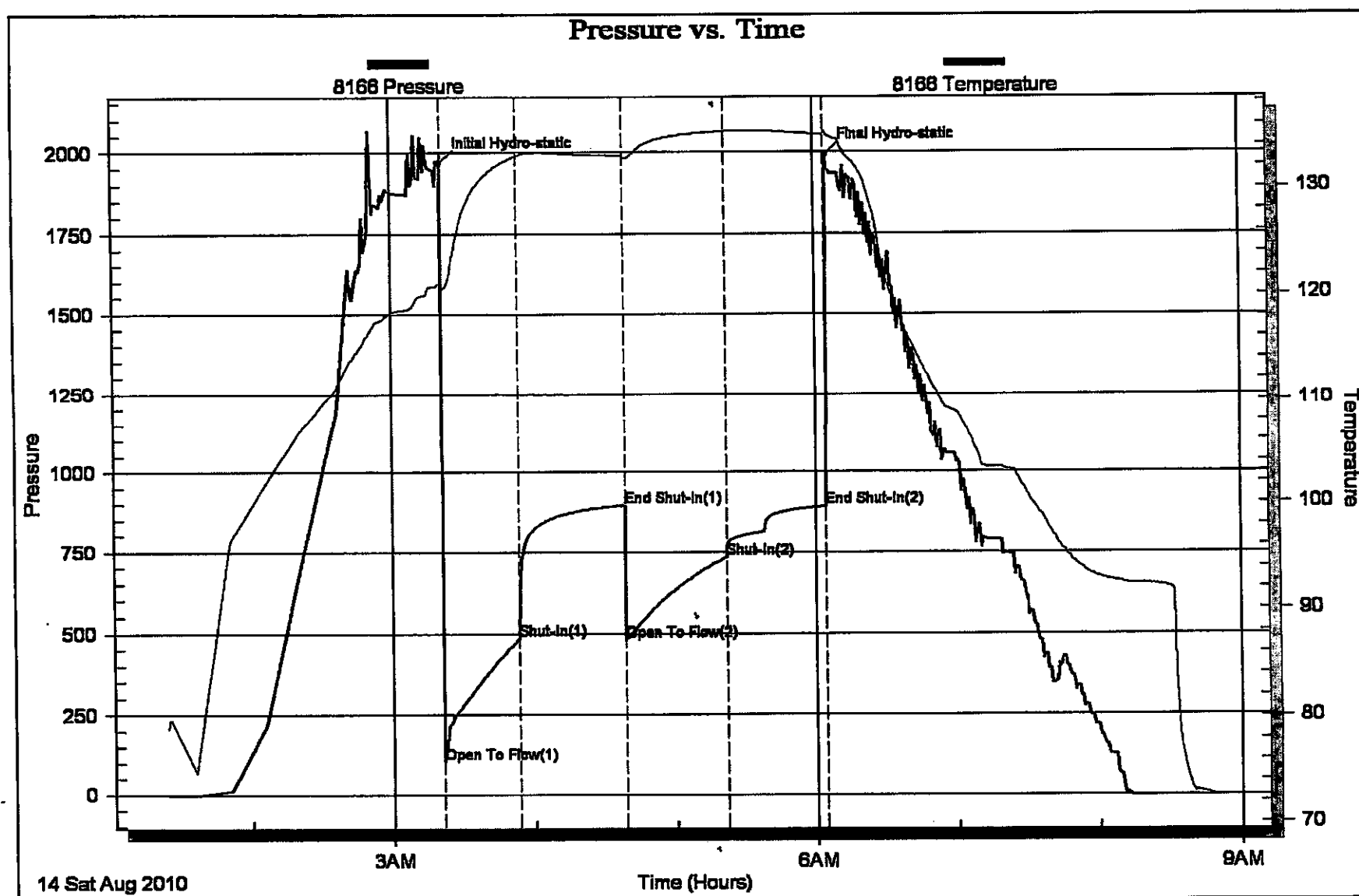
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

410 17th ST Ste 900
Denver, CO 80202

ATTN: Josh Austin/Gary Duke

21-18s-31w Scott

Grube 13A-21-1831

Start Date: 2010.08.14 @ 17:14:00

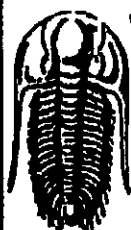
End Date: 2010.08.15 @ 02:05:30

Job Ticket #: 39846 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39846

DST#: 2

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.14 @ 17:14:00

GENERAL INFORMATION:

Formation: Lans H&I

Deviated: No Whipstock ft (KB)

Time Tool Opened: 19:10:45

Time Test Ended: 02:05:30

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: 4151.00 ft (KB) To 4190.00 ft (KB) (TVD)

Total Depth: 4190.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2963.00 ft (KB)

2951.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8322

Inside

Press@RunDepth: 472.69 psig @ 4152.00 ft (KB)

Start Date: 2010.08.14

End Date:

2010.08.15

Start Time: 17:14:05

End Time:

02:05:30

Capacity: 8000.00 psig

Last Calib.: 2010.08.16

Time On Btm: 2010.08.14 @ 19:09:30

Time Off Btm: 2010.08.14 @ 23:09:45

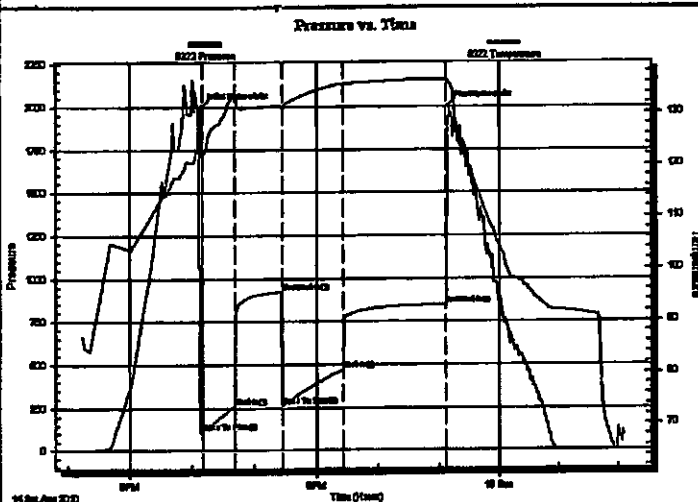
TEST COMMENT:

IF: BOB in 6 mins.

IS: Built to 7 inches died back to 6 inches

FF: BOB in 10 mins.

FS: Built to 6 inches died back to 3 inches.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.63	122.29	Initial Hydro-static
2	112.31	122.30	Open To Flow (1)
32	281.18	133.58	Shut-in(1)
78	924.13	131.34	End Shut-in(1)
78	282.27	131.16	Open To Flow (2)
137	472.69	135.53	Shut-in(2)
238	847.52	136.36	End Shut-in(2)
241	2002.68	135.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	M 100% m	0.10
124.00	G&MCO 5%g 90%o 5% m	0.61
911.00	GCO 30%g 70%o	11.90
310.00	CG&O 70%g 30%o	4.35
0.00	GP = 500 ft	0.00
0.00	API = 30@70F = 28 Corrected	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 800
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39846

DST#: 2

ATTN: Josh Austin/Gary Doke Denver, CO 80202

Test Start: 2010.08.14 @ 17:14:00

Tool Information

Drill Pipe:	Length: 3924.00 ft	Diameter: 3.80 inches	Volume: 55.04 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: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	56.22 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4151.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	59.00 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			4132.00	
Shut In Tool	5.00			4137.00	
Hydraulic tool	5.00			4142.00	
Packer	5.00			4147.00	20.00 * Bottom Of Top Packer
Packer	4.00			4151.00	
Stubb	1.00			4152.00	
Recorder	0.00	8322	Inside	4152.00	
Recorder	0.00	8166	Inside	4152.00	
Perforations	35.00			4187.00	
Bullnose	3.00			4190.00	39.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39646

DST#: 2

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.14 @ 17:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	M 100% m	0.098
124.00	G&MCO 5%g 90%o 5%m	0.610
911.00	GCO 30%g 70%o	11.904
310.00	CG&O 70%g 30%o	4.348
0.00	GIP = 500 ft	0.000
0.00	API = 30@70F = 29 Corrected	0.000

Total Length: 1365.00 ft

Total Volume: 16.960 bbl

Num Fluid Samples: 0

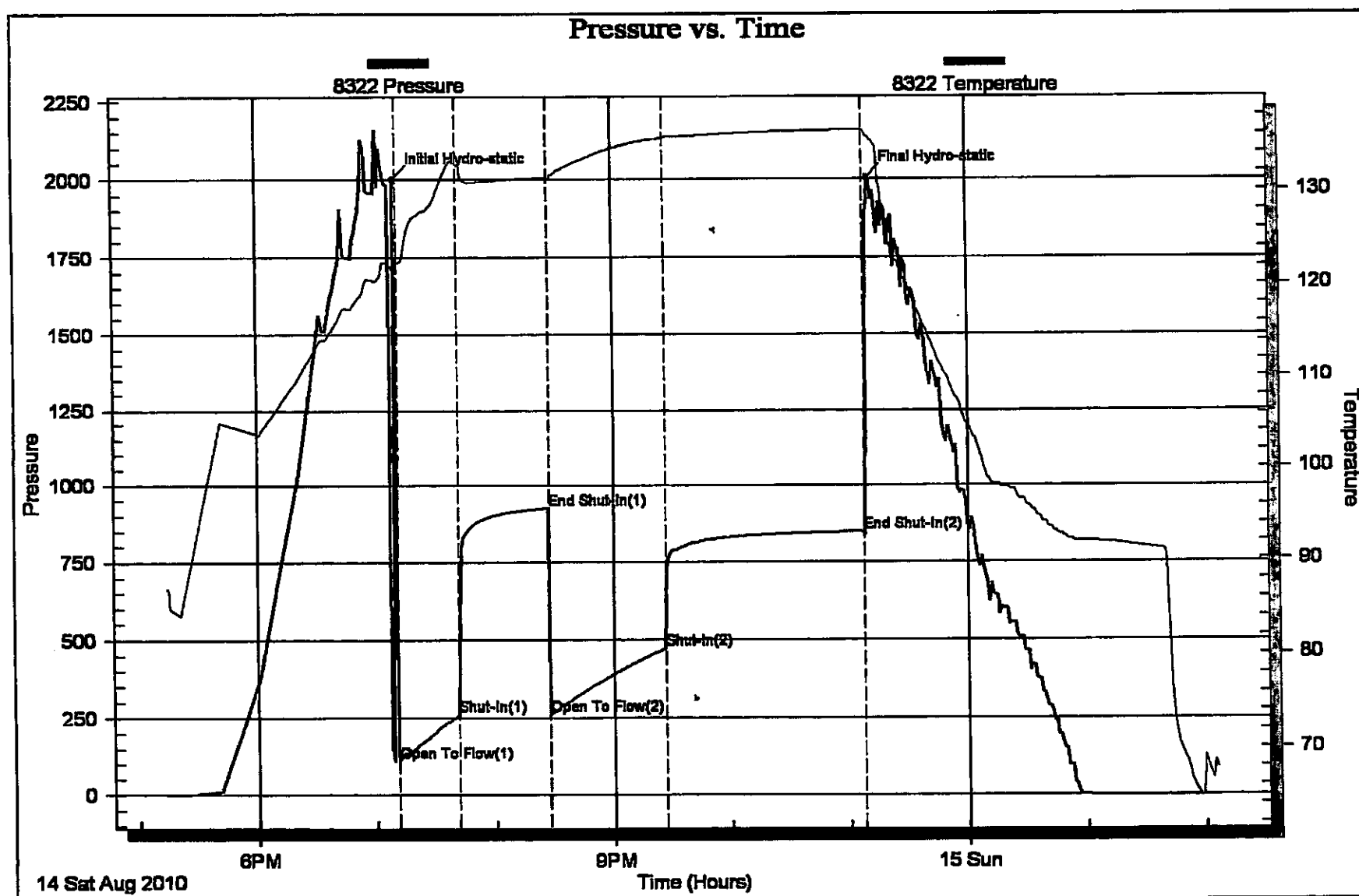
Num Gas Bombs: 0

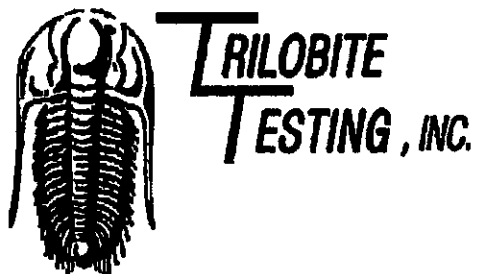
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

410 17th ST Ste 900
Denver, CO 80202

ATTN: Josh Austin/Gary Doke

21-18s-31w Scott

Grube 13A-21-1831

Start Date: 2010.08.16 @ 09:56:05

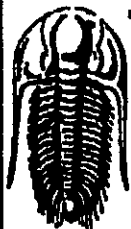
End Date: 2010.08.16 @ 16:15:44

Job Ticket #: 39647 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39647

DST#: 3

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.16 @ 09:56:05

GENERAL INFORMATION:

Formation: Miss Spergen
Deviated: No Whipstock ft (KB)
Time Tool Opened: 11:36:45
Time Test Ended: 16:15:44

Test Type: Conventional Bottom Hole
Tester: Brandon Domsch
Unit No: 48

Interval: 4572.00 ft (KB) To 4602.00 ft (KB) (TVD)
Total Depth: 4602.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2963.00 ft (KB)
2951.00 ft (CF)
KB to GR/CF: 12.00 ft

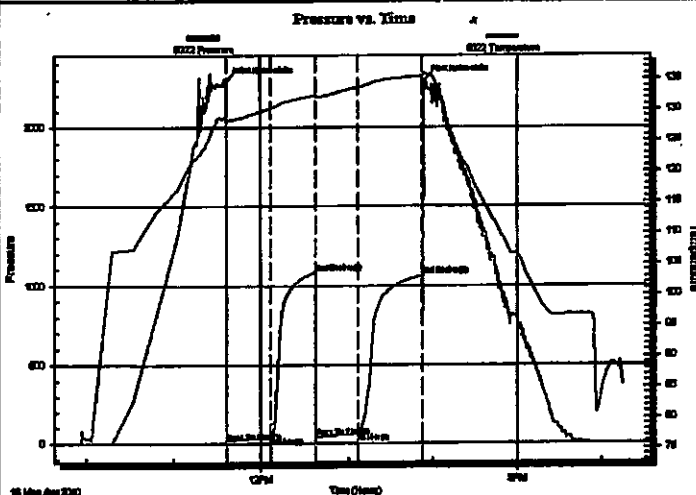
Serial #: 8322

Inside

Press@RunDepth: 62.22 psig @ 4573.00 ft (KB)
Start Date: 2010.08.16 End Date: 2010.08.16
Start Time: 09:56:05 End Time: 16:15:44

Capacity: 8000.00 psig
Last Calib.: 2010.08.16
Time On Btm: 2010.08.16 @ 11:36:30
Time Off Btm: 2010.08.16 @ 13:54:15

TEST COMMENT: F: Built 2 inches.
IS: No return.
FF: Built to 1/4 inch.
FS: No return.



PRESSURE SUMMARY

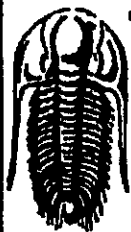
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2286.07	129.03	Initial Hydro-static
1	17.77	128.24	Open To Flow (1)
31	41.16	130.31	Shut-in(1)
61	1084.65	132.38	End Shut-in(1)
62	44.88	132.18	Open To Flow (2)
91	62.22	133.72	Shut-in(2)
137	1063.54	135.53	End Shut-in(2)
138	2289.03	135.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 20%o 80% m	0.30
15.00	M&GO 5%g 85%o 10% m	0.07
0.00	GP = 0	0.00
0.00	API = 30 @ 80F = 28 corrected	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcfd)
--	----------------	-----------------	-----------------



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39647

DST#: 3

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.16 @ 09:56:05

Tool Information

Drill Pipe:	Length: 4333.00 ft	Diameter: 3.80 inches	Volume: 60.78 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: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume:	61.96 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4572.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 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			4553.00	
Shut In Tool	5.00			4558.00	
Hydraulic tool	5.00			4563.00	
Packer	5.00			4568.00	20.00 Bottom Of Top Packer
Packer	4.00			4572.00	
Stubb	1.00			4573.00	
Recorder	0.00	8322	Inside	4573.00	
Recorder	0.00	8166	Inside	4573.00	
Perforations	26.00			4599.00	
Bulldose	3.00			4602.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39847

DST#: 3

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.16 @ 09:58:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	OCM 20%o 80%m	0.285
15.00	M&GCC 5%g 85%o 10%m	0.074
0.00	GP= 0	0.000
0.00	API= 30@80F= 28 corrected	0.000

Total Length: 75.00 ft

Total Volume: 0.369 bbf

Num Fluid Samples: 0

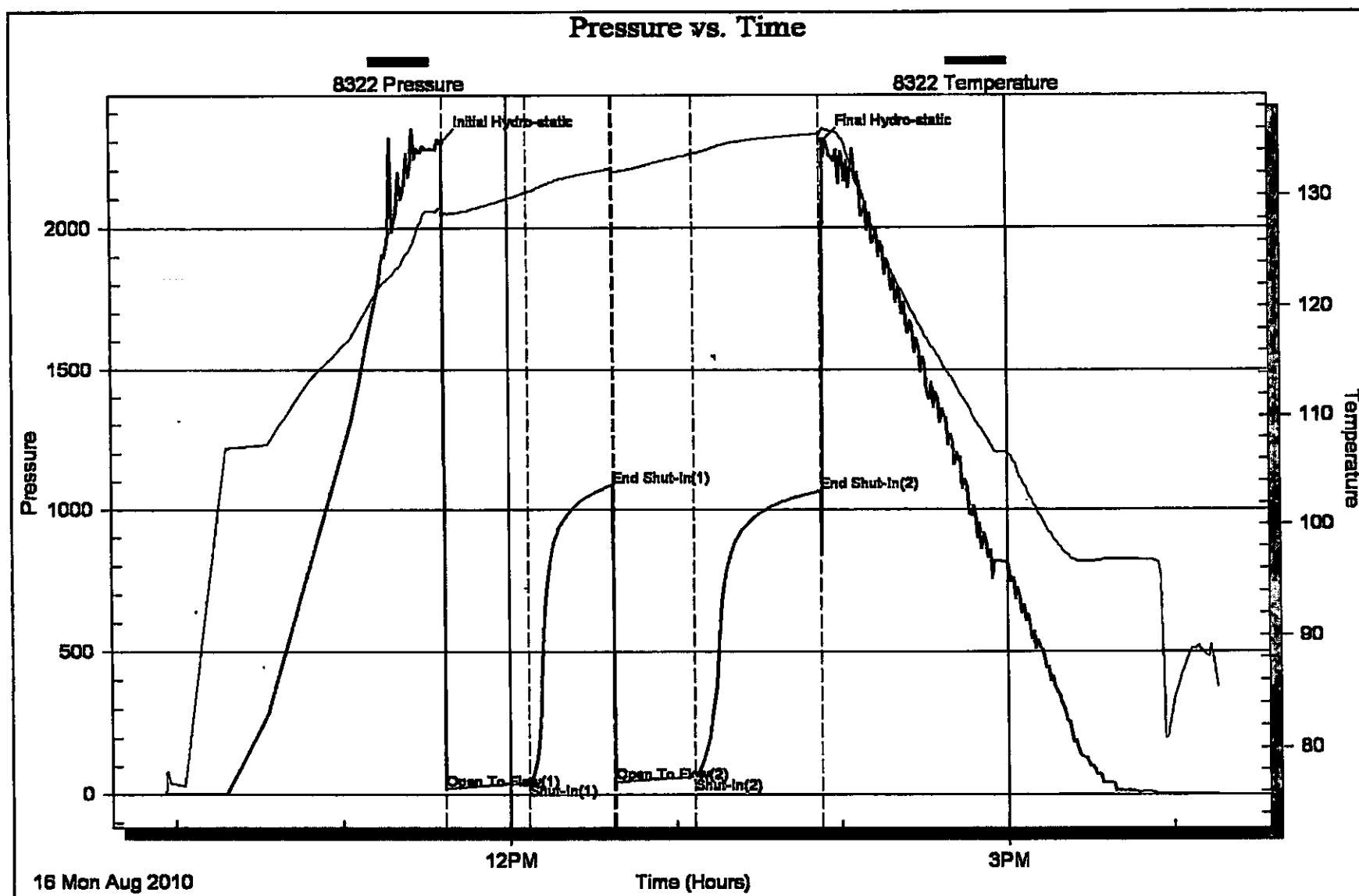
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

410 17th ST Ste 900
Denver, CO 80202

ATTN: Josh Austin/Gary Doka

21-18s-31w Scott

Grube 13A-21-1831

Start Date: 2010.08.16 @ 22:19:05

End Date: 2010.08.17 @ 04:55:29

Job Ticket #: 39648 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FML Natural Resources, LLC

410 17th ST Ste 800
Denver, CO 80202

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Grube 13A-21-1831

21-18s-31w Scott

Job Ticket: 39648

DST#: 4

Test Start: 2010.08.16 @ 22:19:05

GENERAL INFORMATION:

Formation: Miss. Spergen

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:10:45

Time Test Ended: 04:55:29

Interval: 4573.00 ft (KB) To 4617.00 ft (KB) (TVD)

Total Depth: 4617.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Reference Elevations: 2863.00 ft (KB)

2851.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8322

Inside

Press@RunDepth: 79.68 psig @ 4574.00 ft (KB)

Start Date: 2010.08.16

End Date:

2010.08.17

Start Time: 22:18:05

End Time:

04:55:29

Capacity: 8000.00 psig

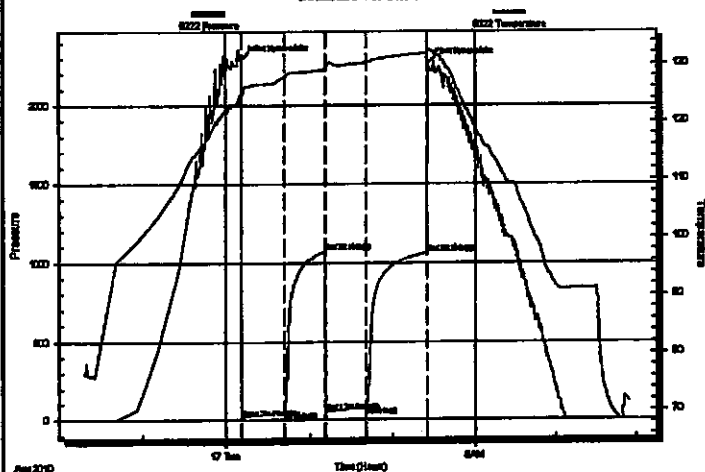
Last Calib.: 2010.08.17

Time On Btm: 2010.08.17 @ 00:10:30

Time Off Btm: 2010.08.17 @ 02:26:15

TEST COMMENT: IF: Built to 3 inches.
IS: 1/4 inch died in 8 mins.
FF: Built to 1 1/2 inches.
FS: 1/4 died in 9 mins

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2292.18	124.80	Initial Hydro-static
1	15.73	124.29	Open To Flow (1)
31	48.90	127.83	Shut-In(1)
60	1070.58	128.93	End Shut-In(1)
61	54.24	128.80	Open To Flow (2)
90	79.68	130.27	Shut-In(2)
135	1061.77	131.80	End Shut-In(2)
136	2270.93	132.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OCM 10%o 90%w	0.61
1.00	CO 100%o	0.00
0.00	GIP = 0	0.00
0.00	API = N/A	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39648

DST#: 4

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.16 @ 22:19:05

Tool Information

Drill Pipe:	Length: 4333.00 ft	Diameter: 3.80 inches	Volume: 60.78 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: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	61.96 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4573.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 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			4554.00	
Shut In Tool	5.00			4559.00	
Hydraulic tool	5.00			4564.00	
Packer	5.00			4569.00	20.00 Bottom Of Top Packer
Packer	4.00			4573.00	
Stubb	1.00			4574.00	
Recorder	0.00	8322	inside	4574.00	
Recorder	0.00	8168	inside	4574.00	
Perforations	7.00			4581.00	
Change Over Sub	1.00			4582.00	
Drill Pipe	31.00			4613.00	
Change Over Sub	1.00			4614.00	
Bullnose	3.00			4617.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39648

DST#: 4

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.16 @ 22:19:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 7.19 in³

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	OCM 10%o 80% m	0.610
1.00	CO 100%o	0.005
0.00	GIP = 0	0.000
0.00	API = N/A	0.000

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:

