

**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

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

410 17th ST STE 900  
Denver, CO 80802

ATTN: Gary Doke / Jim Musgr

**28-18s-31w Scott**

**Schmidt 10B-28-1831**

Start Date: 2010.02.24 @ 21:09:05

End Date: 2010.02.25 @ 04:59:44

Job Ticket #: 37769 DST #: 1

**KCC  
JUN 15 2010  
CONFIDENTIAL**

**RECEIVED  
KANSAS CORPORATION COMMISSION**

**JUN 17 2010**

**CONSERVATION DIVISION  
WICHITA, KS**

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

FIML Natural Resources, LLC

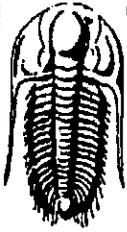
Schmidt 10B-28-1831

28-18s-31w Scott

DST # 1

Lans G

2010.02.24



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FIML Natural Resources, LLC

Schmidt 10B-28-1831

410 17th ST STE 900  
Denver, CO 80802

28-18s-31w Scott

Job Ticket: 37769

DST#: 1

ATTN: Gary Duke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.24 @ 21:09:05

### GENERAL INFORMATION:

Formation: **Lans G**

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

Time Tool Opened: **22:51:15**

Time Test Ended: **04:59:44**

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4084.00 ft (KB) To 4127.00 ft (KB) (TVD)**

Total Depth: **4127.00 ft (KB) (TVD)**

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

Reference Elevations: **2960.00 ft (KB)**

**2949.00 ft (CF)**

KB to GR/CF: **11.00 ft**

**Serial #: 8322**

**Inside**

Press@RunDepth: **869.65 psig @ 4085.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.02.24**

End Date: **2010.02.25**

Last Calib.: **2010.02.25**

Start Time: **21:09:05**

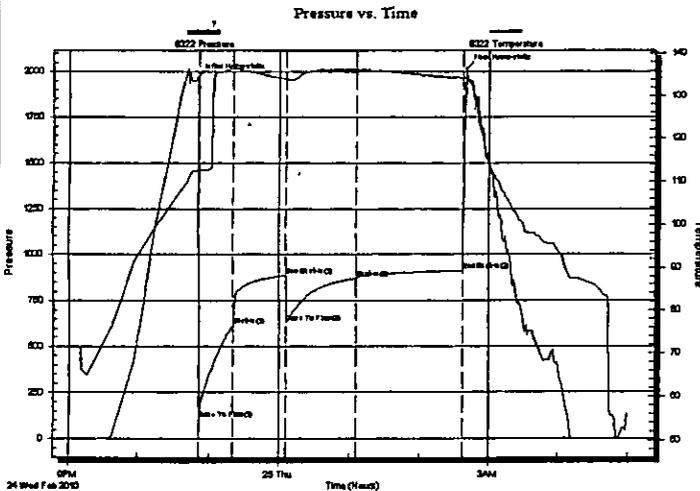
End Time: **04:59:44**

Time On Btm: **2010.02.24 @ 22:50:00**

Time Off Btm: **2010.02.25 @ 02:39:59**

**TEST COMMENT:** IF: BOB in 2 mins.  
IS: No return.  
FF: BOB in 3 mins.  
FS: No return.

### PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.88	112.84	Initial Hydro-static
2	106.00	112.64	Open To Flow (1)
31	614.28	136.38	Shut-In(1)
76	887.40	133.97	End Shut-In(1)
77	630.21	133.88	Open To Flow (2)
136	869.65	136.12	Shut-In(2)
228	912.84	134.22	End Shut-In(2)
230	2016.07	132.87	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100% m	0.15
1581.00	SMCW 90% w 10% m	20.04
279.00	O&WCM 10% o 20% w 70% m	3.91
0.00	GIP = 0	0.00
0.00	RW = .521@65F = 14000 ppm	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FIML Natural Resources, LLC

**Schmidt 10B-28-1831**

410 17th ST STE 900  
Denver, CO 80802

**28-18s-31w Scott**

Job Ticket: 37769

DST#: 1

ATTN: Gary Duke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.24 @ 21:09:05

### Tool Information

Drill Pipe:	Length: 3811.00 ft	Diameter: 3.80 inches	Volume: 53.46 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: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4084.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 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			4065.00	
Shut In Tool	5.00			4070.00	
Hydraulic tool	5.00			4075.00	
Packer	5.00			4080.00	20.00 Bottom Of Top Packer
Packer	4.00			4084.00	
Stubb	1.00			4085.00	
Recorder	0.00	8322	Inside	4085.00	
Recorder	0.00	8166	Inside	4085.00	
Perforations	3.00			4088.00	
Change Over Sub	1.00			4089.00	
Drill Pipe	32.00			4121.00	
Change Over Sub	1.00			4122.00	
Bullnose	5.00			4127.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

Schmidt 10B-28-1831

410 17th ST STE 900  
Denver, CO 80802

28-18s-31w Scott

Job Ticket: 37769

DST#: 1

ATTN: Gary Doke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.24 @ 21:09:05

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

14000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	M 100%m	0.148
1581.00	SMCW 90%w 10%m	20.037
279.00	O&WCM 10%o 20%w 70%m	3.914
0.00	GP = 0	0.000
0.00	RW = .521@65F = 14000 ppm	0.000

Total Length: 1890.00 ft

Total Volume: 24.099 bbl

Num Fluid Samples: 0

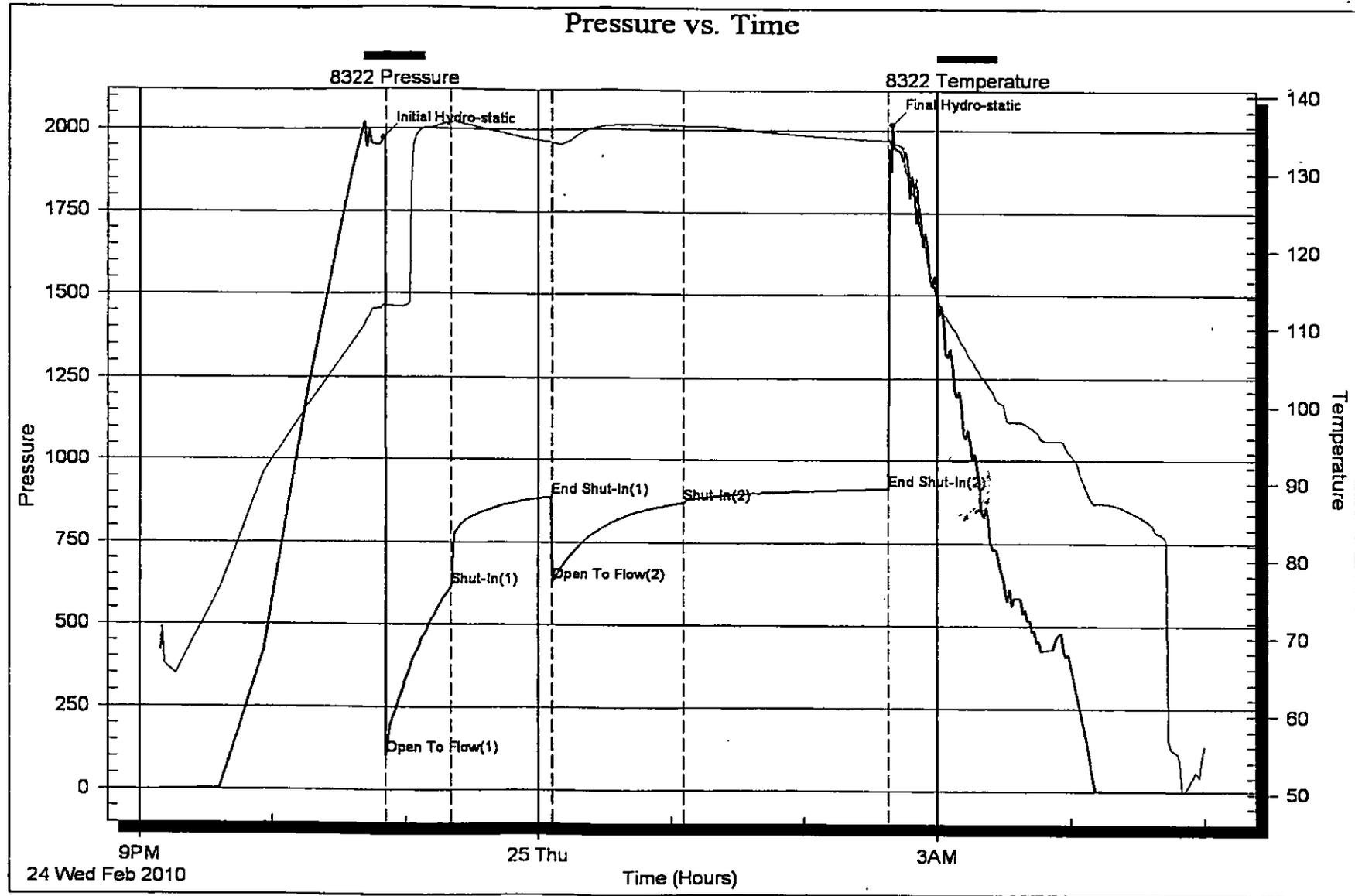
Num Gas Bombs: 0

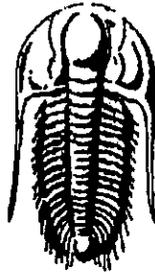
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

410 17th ST STE 900  
Denver, CO 80802

ATTN: Gary Doke / Jim Musgr

**28-18s-31w Scott**

**Schmidt 10B-28-1831**

Start Date: 2010.02.26 @ 06:47:05

End Date: 2010.02.26 @ 13:23:29

Job Ticket #: 37770                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

FIML Natural Resources, LLC

Schmidt 10B-28-1831

28-18s-31w Scott

DST # 2

Pawnee

2010.02.26



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FIML Natural Resources, LLC

Schmidt 10B-28-1831

410 17th ST STE 900  
Denver, CO 80802

28-18s-31w Scott

Job Ticket: 37770

DST#: 2

ATTN: Gary Doke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.26 @ 06:47:05

### GENERAL INFORMATION:

Formation: Pawnee

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:05:15

Time Test Ended: 13:23:29

Interval: 4389.00 ft (KB) To 4432.00 ft (KB) (TVD)

Total Depth: 4432.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Reference Elevations: 2960.00 ft (KB)

2949.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8322

Inside

Press@RunDepth: 15.98 psig @ 4390.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.02.26

End Date: 2010.02.26

Last Calib.: 2010.02.26

Start Time: 06:47:05

End Time: 13:23:29

Time On Btm: 2010.02.26 @ 09:03:45

Time Off Btm: 2010.02.26 @ 11:24:14

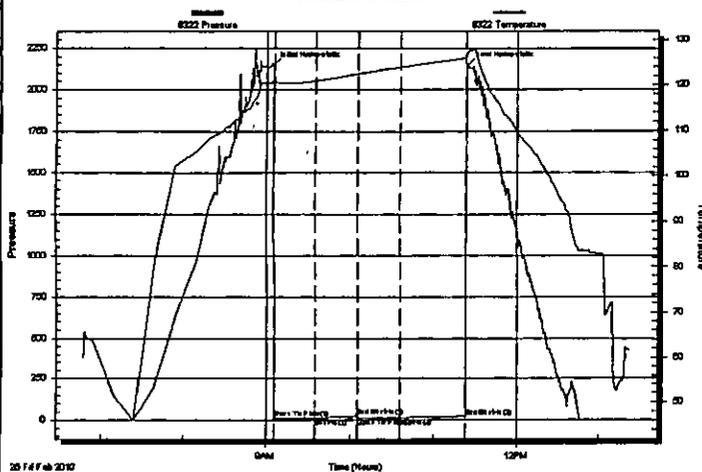
TEST COMMENT: IF: 3/4 inch died in 24 mins.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.22	120.63	Initial Hydro-static
2	11.85	120.37	Open To Flow (1)
32	14.66	120.86	Shut-In(1)
62	23.22	122.37	End Shut-In(1)
62	15.41	122.38	Open To Flow (2)
92	15.98	123.86	Shut-In(2)
140	22.70	125.90	End Shut-In(2)
141	2144.17	127.02	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mw/ a few O spots 100% m	0.02
0.00	GIP = 0	0.00

### Gas Rates

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



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

FIML Natural Resources, LLC

**Schmidt 10B-28-1831**

410 17th ST STE 900  
Denver, CO 80802

**28-18s-31w Scott**

Job Ticket: 37770

**DST#: 2**

ATTN: Gary Doke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.26 @ 06:47:05

**Tool Information**

Drill Pipe:	Length: 4120.00 ft	Diameter: 3.80 inches	Volume: 57.79 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: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 80000.00 lb
		<b>Total Volume:</b>	<b>59.09 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4389.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 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			4370.00	
Shut In Tool	5.00			4375.00	
Hydraulic tool	5.00			4380.00	
Packer	5.00			4385.00	20.00 Bottom Of Top Packer
Packer	4.00			4389.00	
Stubb	1.00			4390.00	
Recorder	0.00	8322	Inside	4390.00	
Recorder	0.00	8166	Inside	4390.00	
Perforations	3.00			4393.00	
Change Over Sub	1.00			4394.00	
Drill Pipe	32.00			4426.00	
Change Over Sub	1.00			4427.00	
Bullnose	5.00			4432.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

FIML Natural Resources, LLC

Schmidt 10B-28-1831

410 17th ST STE 900  
Denver, CO 80802

28-18s-31w Scott

Job Ticket: 37770

DST#: 2

ATTN: Gary Doke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.26 @ 06:47:05

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mw / a few O spots 100% m	0.025
0.00	GP = 0	0.000

Total Length: 5.00 ft      Total Volume: 0.025 bbf

Num Fluid Samples: 0

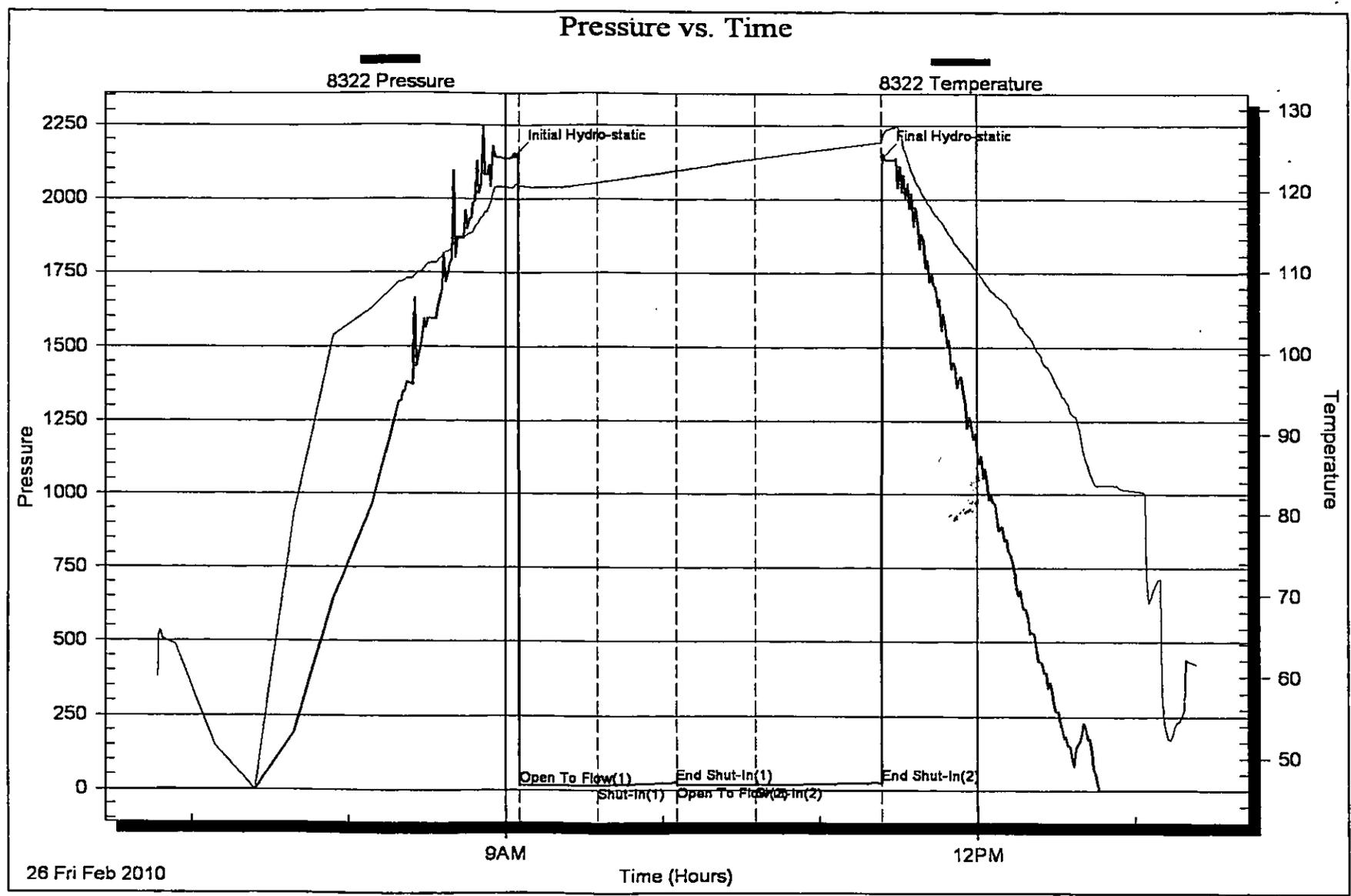
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

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

410 17th ST STE 900  
Denver, CO 80802

ATTN: Gary Doke / Jim Musgr

**28-18s-31w Scott**

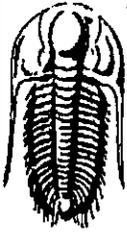
**Schmidt 10B-28-1831**

Start Date: 2010.02.27 @ 07:27:05

End Date: 2010.02.27 @ 13:58:44

Job Ticket #: 37771                      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

FIML Natural Resources, LLC

Schmidt 10B-28-1831

410 17th ST STE 900  
Denver, CO 80802

28-18s-31w Scott

Job Ticket: 37771

DST#: 3

ATTN: Gary Doke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.27 @ 07:27:05

### GENERAL INFORMATION:

Formation: Miss

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:31:00

Time Test Ended: 13:58:44

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: 4578.00 ft (KB) To 4595.00 ft (KB) (TVD)

Total Depth: 4595.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2960.00 ft (KB)

2949.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8322

Inside

Press@RunDepth: 37.89 psig @ 4579.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.02.27

End Date: 2010.02.27

Last Calib.: 2010.02.27

Start Time: 07:27:05

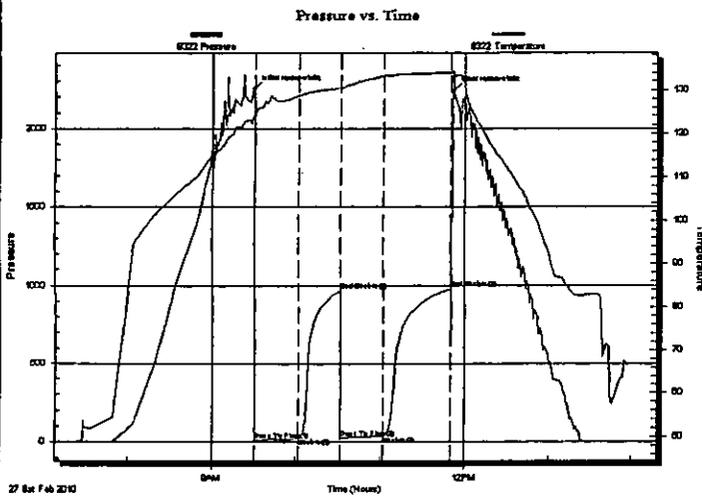
End Time: 13:58:44

Time On Btm: 2010.02.27 @ 09:29:45

Time Off Btm: 2010.02.27 @ 11:52:14

TEST COMMENT: F: Built to 1 1/4 inches.  
IS: No return.  
FF: Built to 3/4 inch.  
FS: No return.

### PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.90	124.13	Initial Hydro-static
2	12.24	124.10	Open To Flow (1)
33	23.94	128.65	Shut-In(1)
62	965.79	130.30	End Shut-In(1)
62	27.99	130.00	Open To Flow (2)
92	37.89	133.10	Shut-In(2)
141	977.17	133.99	End Shut-In(2)
143	2244.01	133.17	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
49.00	Mw / a few O spots 100% m	0.24
10.00	OCM 35% o 65% m	0.05
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

FIML Natural Resources, LLC

Schmidt 10B-28-1831

410 17th ST STE 900  
Denver, CO 80802

28-18s-31w Scott

Job Ticket: 37771

DST#: 3

ATTN: Gary Doke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.27 @ 07:27:05

### Tool Information

Drill Pipe:	Length: 4319.00 ft	Diameter: 3.80 inches	Volume: 60.58 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: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4578.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 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			4559.00	
Shut In Tool	5.00			4564.00	
Hydraulic tool	5.00			4569.00	
Packer	5.00			4574.00	20.00 Bottom Of Top Packer
Packer	4.00			4578.00	
Stubb	1.00			4579.00	
Recorder	0.00	8322	Inside	4579.00	
Recorder	0.00	8166	Inside	4579.00	
Perforations	11.00			4590.00	
Bullnose	5.00			4595.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>37.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

Schmidt 10B-28-1831

410 17th ST STE 900  
Denver, CO 80802

28-18s-31w Scott

Job Ticket: 37771

DST#: 3

ATTN: Gary Doke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.27 @ 07:27:05

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
49.00	Mw / a few O spots 100% <sub>m</sub>	0.241
10.00	OCM 35% <sub>o</sub> 65% <sub>m</sub>	0.049
1.00	CO 100% <sub>o</sub>	0.005
0.00	GIP = 0	0.000
0.00	API = N/A	0.000

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

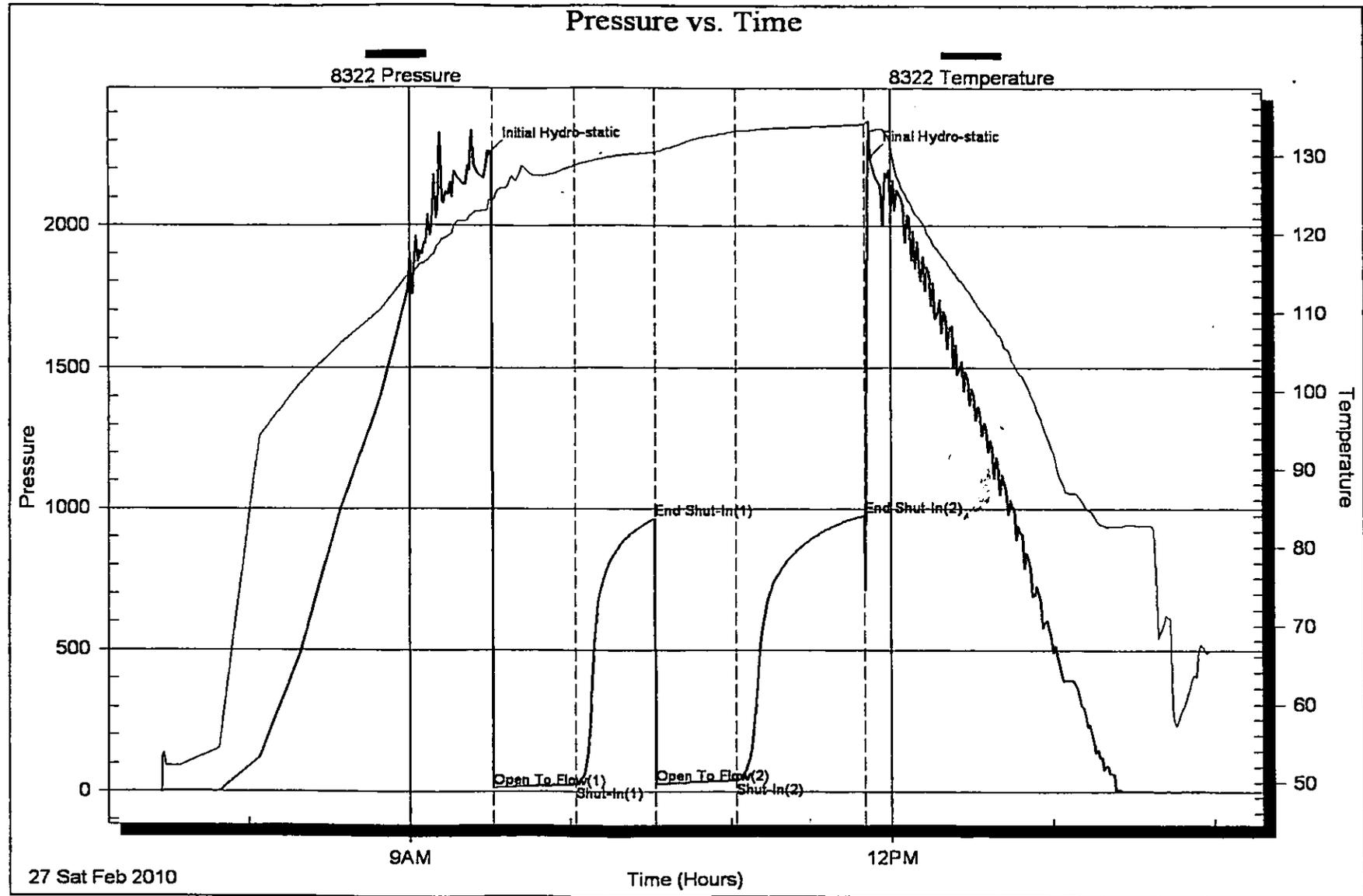
Num Gas Bombs: 0

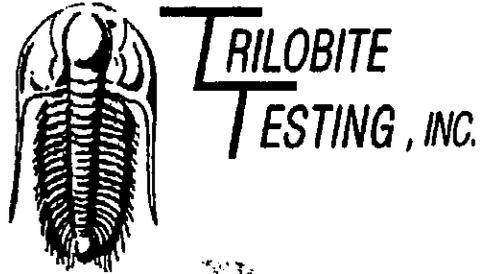
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

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

410 17th ST STE 900  
Denver, CO 80802

ATTN: Gary Doke / Jim Musgr

**28-18s-31w Scott**

**Schmidt 10B-28-1831**

Start Date: 2010.02.27 @ 20:35:05

End Date: 2010.02.28 @ 02:58:59

Job Ticket #: 37772                      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

FIML Natural Resources, LLC

Schmidt 10B-28-1831

410 17th ST STE 900  
Denver, CO 80802

28-18s-31w Scott

Job Ticket: 37772

DST#: 4

ATTN: Gary Duke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.27 @ 20:35:05

### GENERAL INFORMATION:

Formation: Miss

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:37:45

Time Test Ended: 02:58:59

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: 4595.00 ft (KB) To 4607.00 ft (KB) (TVD)

Total Depth: 4607.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2960.00 ft (KB)

2949.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8322

Inside

Press@RunDepth: 12.67 psig @ 4596.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.02.27

End Date:

2010.02.28

Last Calib.: 2010.02.28

Start Time: 20:35:05

End Time:

02:58:59

Time On Btm: 2010.02.27 @ 22:37:15

Time Off Btm: 2010.02.28 @ 00:54:45

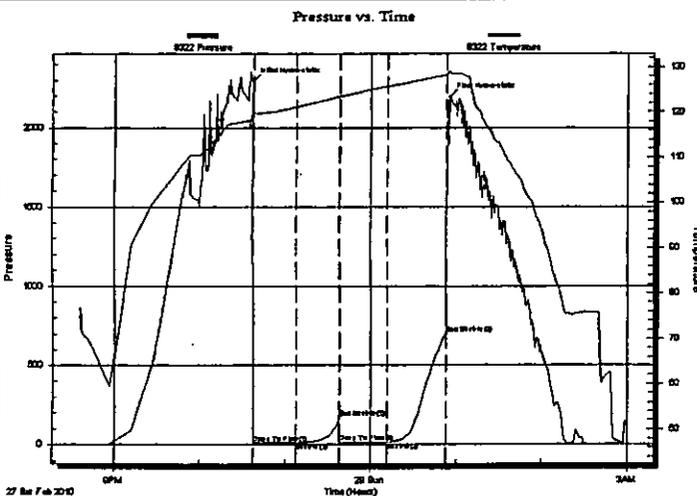
TEST COMMENT: IF: Built to 1/4 inch died in 27 mins.

IS: No return.

FF: No blow.

FS: No return.

### PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2288.43	119.86	Initial Hydro-static
1	10.47	119.09	Open To Flow (1)
31	12.08	121.14	Shut-In(1)
61	165.75	123.45	End Shut-In(1)
61	11.98	123.45	Open To Flow (2)
94	12.67	125.63	Shut-In(2)
136	698.86	128.13	End Shut-In(2)
138	2191.94	128.70	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1.00	O spotted M 100% m	0.00
0.00	GIP = 0	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FML Natural Resources, LLC

Schmidt 10B-28-1831

410 17th ST STE 900  
Denver, CO 80802

28-18s-31w Scott

Job Ticket: 37772

DST#: 4

ATTN: Gary Doke / Jim Musgr Denver, CO 80802

Test Start: 2010.02.27 @ 20:35:05

### Tool Information

Drill Pipe:	Length: 4320.00 ft	Diameter: 3.80 inches	Volume: 60.60 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: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 70000.00 lb
			<b>Total Volume: 61.90 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4595.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	32.00 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			4576.00	
Shut In Tool	5.00			4581.00	
Hydraulic tool	5.00			4586.00	
Packer	5.00			4591.00	20.00 Bottom Of Top Packer
Packer	4.00			4595.00	
Stubb	1.00			4596.00	
Recorder	0.00	8322	Inside	4596.00	
Recorder	0.00	8166	Inside	4596.00	
Perforations	6.00			4602.00	
Bullnose	5.00			4607.00	12.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>32.00</b>				



**TRILOBITE  
TESTING, INC**

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**FLUID SUMMARY**

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## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil Apt:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	O spotted M 100% m	0.005
0.00	GP = 0	0.000

Total Length: 1.00 ft      Total Volume: 0.005 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

