

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St Ste 900
Denver CO 80202

CONFIDENTIAL
JUL 18 2008

KCC

ATTN: Josh Austin

31 18 31 Scott KS

Kimball # 15-31-1831

Start Date: 2008.04.07 @ 16:55:05

End Date: 2008.04.08 @ 07:15:00

Job Ticket #: 31841 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 22 2008

CONSERVATION DIVISION
WICHITA, KS

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

410 17th St Ste 900
Denver CO 80202

ATTN: Josh Austin

Kimball # 15-31-1831

31 18 31 Scott KS

Job Ticket: 31841

DST#: 1

Test Start: 2008.04.07 @ 16:55:05

GENERAL INFORMATION:

Formation: **K**

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

Time Tool Opened: 23:56:45

Time Test Ended: 07:15:00

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **4232.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Total Depth: **4340.00 ft (KB) (TVD)**

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

Reference Elevations: **2996.00 ft (KB)**

2986.00 ft (CF)

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

Serial #: 6667

Inside

Press@RunDepth: **634.14 psig @ 4233.00 ft (KB)**

Start Date: **2008.04.07**

End Date:

2008.04.08

Capacity: **7000.00 psig**

Last Calib.: **2008.04.08**

Start Time: **16:55:05**

End Time:

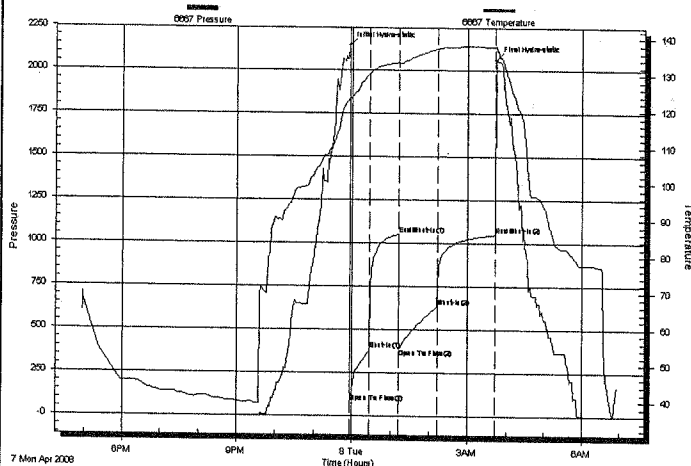
06:57:00

Time On Btm: **2008.04.07 @ 23:55:45**

Time Off Btm: **2008.04.08 @ 03:43:30**

TEST COMMENT: BOB in 4 min.
Return blow in 7 min. built to 1 "
BOB in 5 min.
Return blow in 5 min. built to 1 3/4 "

Pressure vs. Time



PRESSURE SUMMARY

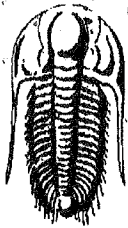
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2142.29	123.45	Initial Hydro-static
1	81.49	123.62	Open To Flow (1)
32	384.02	130.42	Shut-In (1)
77	1052.21	133.43	End Shut-In (1)
78	392.60	133.26	Open To Flow (2)
137	634.14	137.19	Shut-In (2)
227	1049.60	137.78	End Shut-In (2)
228	2062.50	138.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
855.00	SMCW trace of O 5%M 95%W	7.06
130.00	SGOMCW 5%G 10%O 30%M 55%W	1.82
485.00	CGO 10%G 90%O	6.80

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

Kimball # 15-31-1831

410 17th St Ste 900
Denver CO 80202

31 18 31 Scott KS

Job Ticket: 31841

DST#: 1

ATTN: Josh Austin

Test Start: 2008.04.07 @ 16:55:05

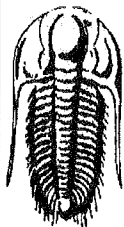
Tool Information

Drill Pipe:	Length: 3681.00 ft	Diameter: 3.80 inches	Volume: 51.63 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: 542.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 54.30 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4232.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.00 ft			
Tool Length:	128.00 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			4213.00	
Shut In Tool	5.00			4218.00	
Hydraulic tool	5.00			4223.00	
Packer	5.00			4228.00	20.00 Bottom Of Top Packer
Packer	4.00			4232.00	
Stubb	1.00			4233.00	
Recorder	0.00	6667	Inside	4233.00	
Recorder	0.00	6771	Outside	4233.00	
Perforations	6.00			4239.00	
Change Over Sub	1.00			4240.00	
Drill Pipe	94.00			4334.00	
Change Over Sub	1.00			4335.00	
Bullnose	5.00			4340.00	108.00 Bottom Packers & Anchor

Total Tool Length: 128.00



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FLUID SUMMARY

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410 17th St Ste 900
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31 18 31 Scott KS

Job Ticket: 31841

DST#: 1

ATTN: Josh Austin

Test Start: 2008.04.07 @ 16:55:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 6.38 in³

Resistivity: 0.00 ohm.m

Salinity: 1900.00 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:

31 deg API

52000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
855.00	SMCW trace of O 5%M 95%W	7.056
130.00	SGOMCW 5%G 10%O 30%M 55%W	1.824
485.00	CGO 10%G 90%O	6.803

Total Length: 1470.00 ft

Total Volume: 15.683 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

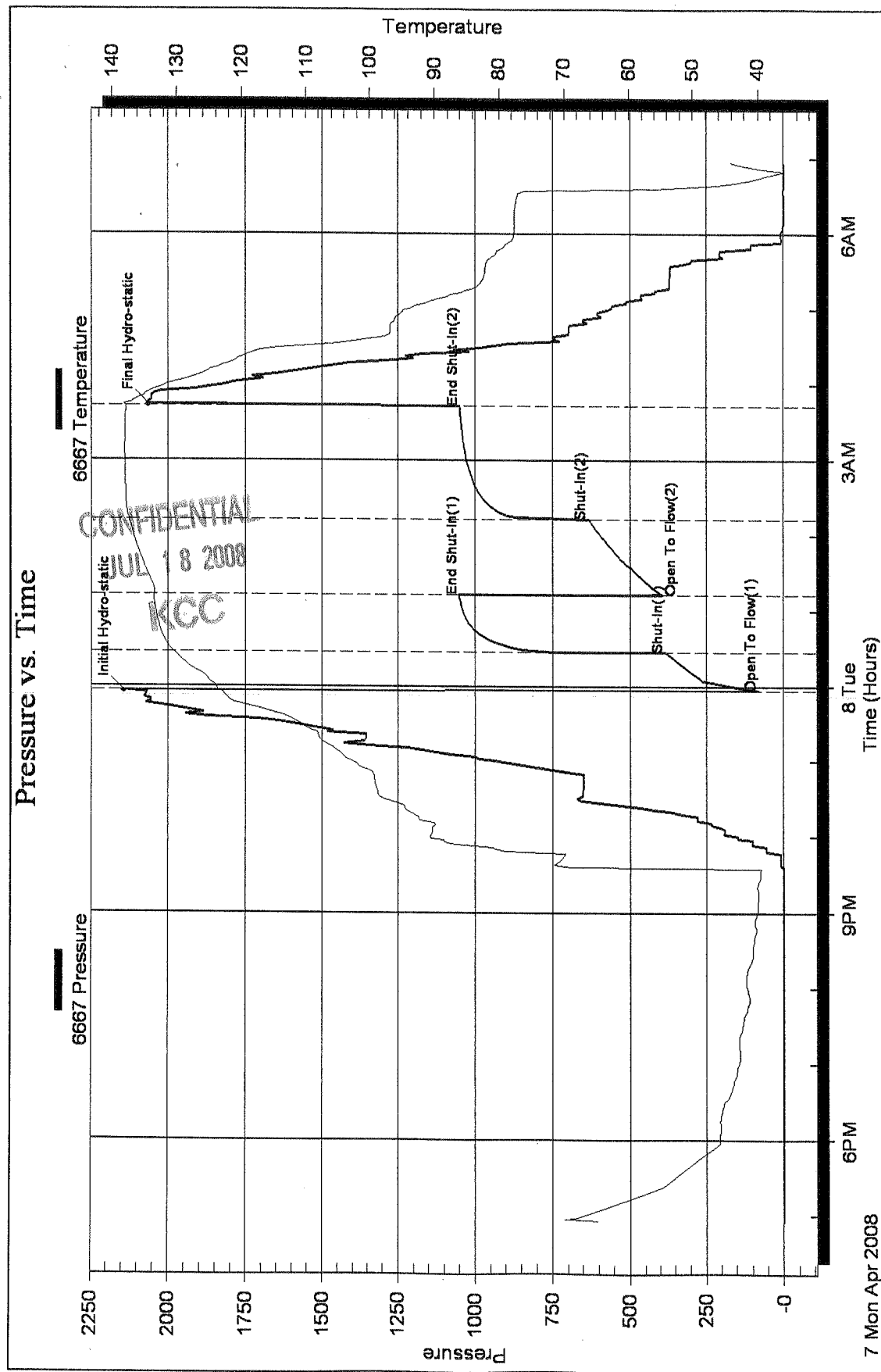
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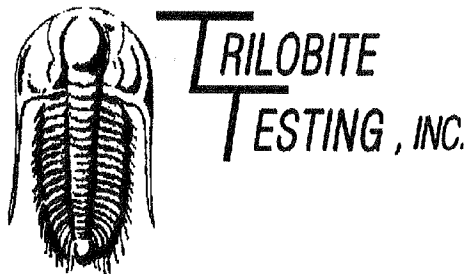
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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Prepared For: **FIML Natural Resources LLC**

410 17th St Ste 900
Denver CO 80202

CONFIDENTIAL
JUL 18 2008
KCC

ATTN: Josh Austin

31 18 31 Scott KS

Kimball # 15-31-1831

Start Date: 2008.04.08 @ 17:35:05

End Date: 2008.04.09 @ 04:40:45

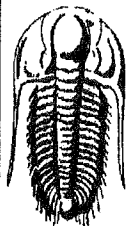
Job Ticket #: 31842 DST #: 2

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 22 2008

CONSERVATION DIVISION
WICHITA, KS

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DRILL STEM TEST REPORT

FIML Natural Resources LLC

410 17th St Ste 900
Denver CO 80202

ATTN: Josh Austin

Kimball # 15-31-1831

31 18 31 Scott KS

Job Ticket: 31842

DST#: 2

Test Start: 2008.04.08 @ 17:35:05

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:44:00

Time Test Ended: 04:40:45

Interval: **4324.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Total Depth: 4420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Reference Elevations: 2996.00 ft (KB)

2986.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6667** Inside

Press@RunDepth: 1101.89 psig @ 4325.00 ft (KB)

Start Date: 2008.04.08

End Date:

2008.04.09

Start Time: 17:35:05

End Time:

04:24:45

Capacity: 7000.00 psig

Last Calib.: 2008.04.09

Time On Btm: 2008.04.08 @ 19:43:30

Time Off Btm: 2008.04.08 @ 23:31:15

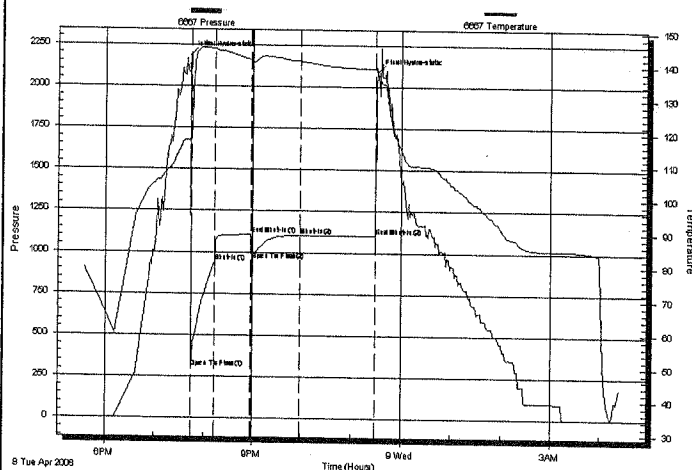
TEST COMMENT: BOB in 1 min.

Return blow 3 min built to 9 "

BOB in 1/2 min. died back to 10 "

Return blow in 8 min. built to 2 1/2 "

Pressure vs. Time



PRESSURE SUMMARY

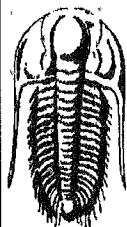
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.96	118.04	Initial Hydro-static
1	303.75	117.83	Open To Flow (1)
30	940.38	144.92	Shut-In (1)
75	1105.63	141.65	End Shut-In (1)
75	950.75	141.53	Open To Flow (2)
135	1101.89	141.34	Shut-In (2)
226	1104.58	139.00	End Shut-In (2)
228	2087.99	137.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
950.00	SGW trace of O 5%G 2%O 93%W	8.39
190.00	GOMCW 15%G 15%O 25%M 45%W	2.67
190.00	GSWCMD 25%G 15%W 30%M 30%O	2.67
1280.00	CGO 35%G 65%O	17.96
0.00	475 weak GIP	0.00

Gas Rates

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

FIML Natural Resources LLC

Kimball # 15-31-1831

410 17th St Ste 900
Denver CO 80202

31 18 31 Scott KS

Job Ticket: 31842

DST#: 2

ATTN: Josh Austin

Test Start: 2008.04.08 @ 17:35:05

Tool Information

Drill Pipe:	Length: 3773.00 ft	Diameter: 3.80 inches	Volume: 52.93 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: 542.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose:	95000.00 lb
		Total Volume:	55.60 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4324.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	96.00 ft				
Tool Length:	116.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

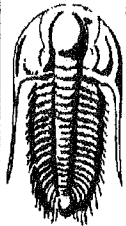
Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4305.00	
Shut In Tool	5.00			4310.00	
Hydraulic tool	5.00			4315.00	
Packer	5.00			4320.00	20.00 Bottom Of Top Packer
Packer	4.00			4324.00	
Stubb	1.00			4325.00	
Recorder	0.00	6667	Inside	4325.00	
Recorder	0.00	6771	Outside	4325.00	
Perforations	25.00			4350.00	
Change Over Sub	1.00			4351.00	
Drill Pipe	63.00			4414.00	
Change Over Sub	1.00			4415.00	
Bullnose	5.00			4420.00	96.00 Bottom Packers & Anchor

Total Tool Length: 116.00



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Job Ticket: 31842

DST#: 2

ATTN: Josh Austin

Test Start: 2008.04.08 @ 17:35:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.20 in³

Resistivity: 0.00 ohm.m

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

29 deg API

Water Salinity:

61000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
950.00	SGW trace of O 5%G 2%O 93%W	8.389
190.00	GOMCW 15%G 15%O 25%M 45%W	2.665
190.00	GSWCMO 25%G 15%W 30%M 30%O	2.665
1280.00	CGO 35%G 65%O	17.955
0.00	475 weak GIP	0.000

Total Length: 2610.00 ft

Total Volume: 31.674 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

