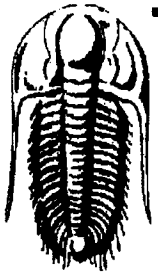
15-039-21044

16-5s-26w

IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CONFIDENTIAL
JUN 0 5 2008
KCC

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

16 5S 26W Decatur KS

Unrein Unit # 1-16

Start Date: 2008.02.07 @ 22:47:00
End Date: 2008.02.08 @ 07:09:39
Job Ticket #: 31578 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION
JUN 0 5 2008
CONSERVATION DIVISION
WICHITA, KS

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

Murfin Drilling Company Inc
Unrein Unit # 1-16
16 5S 26W Decatur KS
DST # 1
Toronto-Lansing "C"
2008.02.07

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

Unrein Unit # 1-16

16 5S 26W Decatur KS

Job Ticket: 31578 **DST#: 1**

Test Start: 2008.02.07 @ 22:47:00

GENERAL INFORMATION:

Formation: **Toronto-Lansing "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:14:10
Time Test Ended: 07:09:39

Test Type: Conventional Bottom Hole
Tester: Jake Fahrenbruch
Unit No: 43

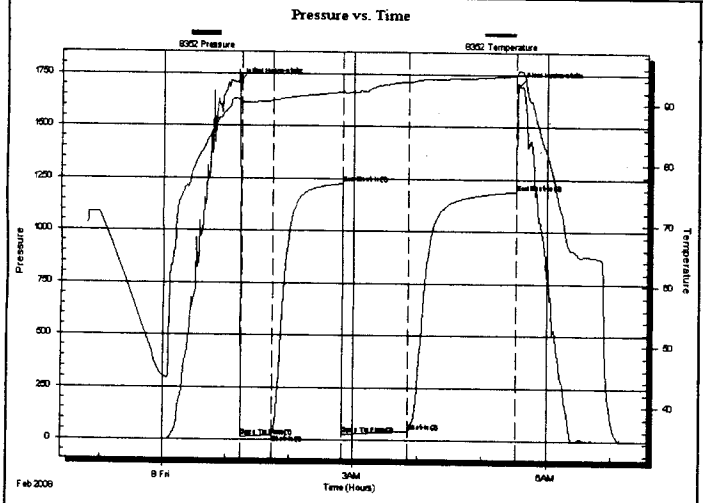
Interval: 3597.00 ft (KB) To 3670.00 ft (KB) (TVD)
Total Depth: 3670.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2610.00 ft (KB)
2605.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8352 **Inside**
Press@RunDepth: 41.91 psig @ 3598.00 ft (KB)
Start Date: 2008.02.07 End Date: 2008.02.08
Start Time: 22:47:02 End Time: 07:09:40

Capacity: 7000.00 psig
Last Calib.: 2008.02.08
Time On Btm: 2008.02.08 @ 01:11:40
Time Off Btm: 2008.02.08 @ 05:33:50

TEST COMMENT: IF Weak blow built to 1.25 "
ISI Bled off no blow back
FF Weak surface blow throughout
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.24	90.75	Initial Hydro-static
3	13.57	89.91	Open To Flow (1)
33	23.46	90.50	Shut-In(1)
98	1226.04	91.98	End Shut-In(1)
98	26.01	91.79	Open To Flow (2)
160	41.91	93.74	Shut-In(2)
261	1191.99	94.80	End Shut-In(2)
263	1700.63	95.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	SOCM 4%O 96%M	0.12

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

Unrein Unit # 1-16

16 5S 26W Decatur KS

Job Ticket: 31578 **DST#: 1**

Test Start: 2008.02.07 @ 22:47:00

Tool Information

Drill Pipe:	Length:	3488.00 ft	Diameter:	3.80 inches	Volume:	48.93 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	90.00 ft	Diameter:	2.25 inches	Volume:	0.44 bbl	
					Total Volume:	49.37 bbl	

Drill Pipe Above KB:	4.00 ft
Depth to Top Packer:	3597.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	73.00 ft
Tool Length:	96.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		3000.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		58000.00 lb
Tool Chased		2.00 ft
String Weight:	Initial	50000.00 lb
	Final	50000.00 lb

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3579.00		
Hydraulic tool	5.00			3584.00		
Safety Joint	3.00			3587.00		
Packer	5.00			3592.00	23.00	Bottom Of Top Packer
Packer	5.00			3597.00		
Stubb	1.00			3598.00		
Recorder	0.00	6799	Inside	3598.00		
Recorder	0.00	8352	Inside	3598.00		
Perforations	34.00			3632.00		
Blank Spacing	33.00			3665.00		
Bullnose	5.00			3670.00	73.00	Bottom Packers & Anchor
Total Tool Length:	**96.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

Unrein Unit # 1-16

16 5S 26W Decatur KS

Job Ticket: 31578 **DST#: 1**

Test Start: 2008.02.07 @ 22:47:00

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:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

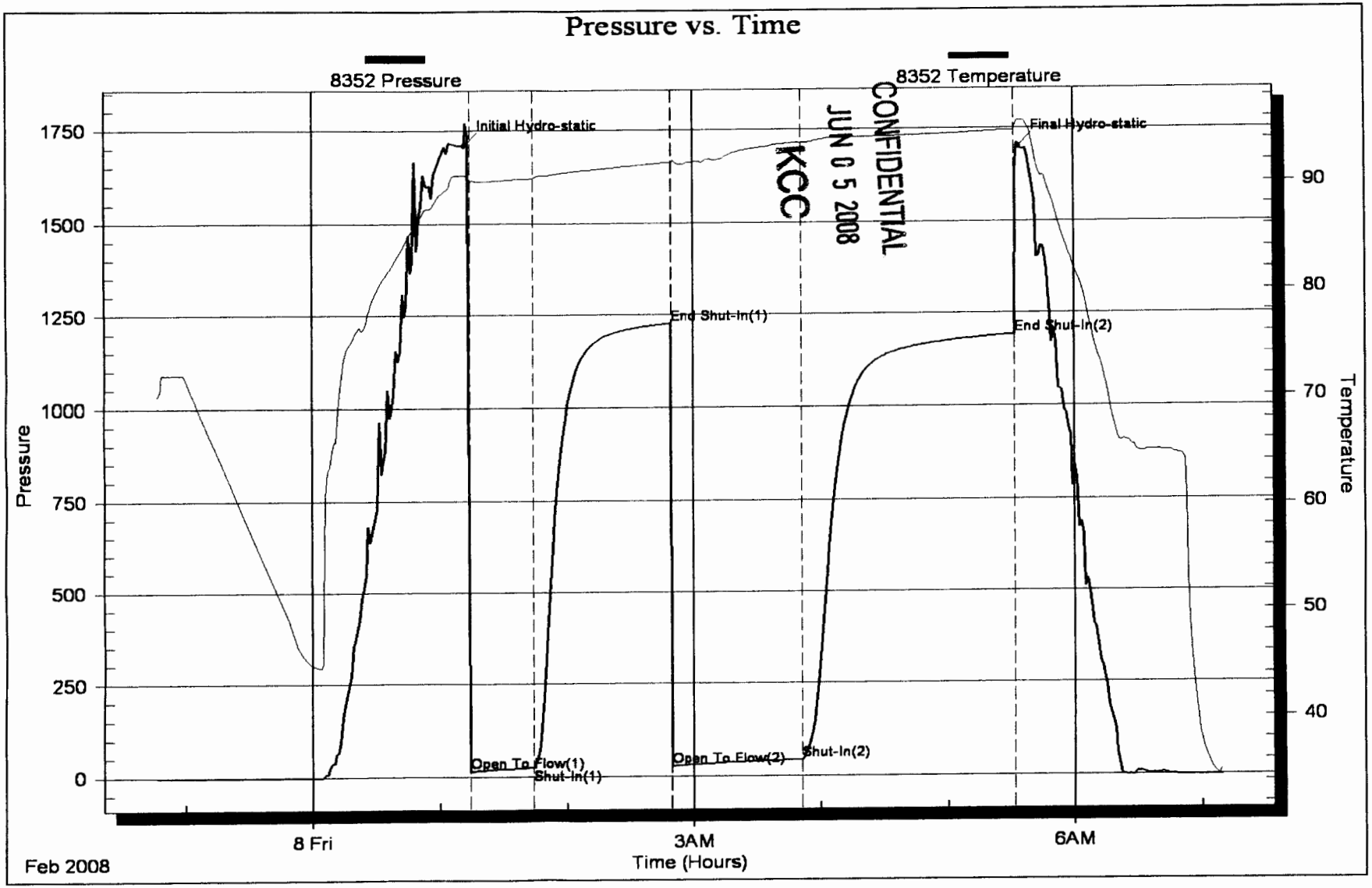
Length ft	Description	Volume bbl
25.00	SOCM 4%O 96%M	0.123

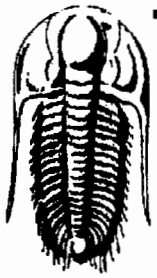
Total Length: 25.00 ft Total Volume: 0.123 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8352 Pressure
8352 Temperature
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Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
90
80
70
60
50
40
8 Fri
3AM
6AM
Time (Hours)
Feb 2008



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202-1216

CONFIDENTIAL
JUN 0 5 2008
KCC

ATTN: Terry McLeod

16 5S 26W Decatur KS

Unrein Unit # 1-16

Start Date: 2008.02.08 @ 14:30:00
End Date: 2008.02.08 @ 21:41:00
Job Ticket #: 31579 DST #: 2

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

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KANSAS CORPORATION COMMISSION
JUN 0 5 2008
CONSERVATION DIVISION
WICHITA, KS

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

Unrein Unit # 1-16

16 5S 26W Decatur KS

Job Ticket: 31579 **DST#: 2**

Test Start: 2008.02.08 @ 14:30:00

GENERAL INFORMATION:

Formation: **Lansing "D-G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:03:10
Time Test Ended: 21:41:00

Test Type: Conventional Bottom Hole
Tester: Jake Fahrenbruch
Unit No: 43

Interval: 3646.00 ft (KB) To 3725.00 ft (KB) (TVD)
Total Depth: 3725.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

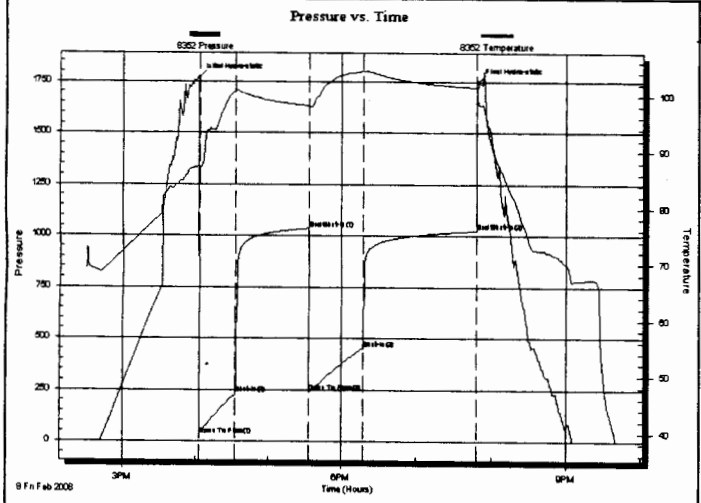
Reference Elevations: 2610.00 ft (KB)
2605.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8352 **Inside**

Press@RunDepth: 450.12 psig @ 3647.00 ft (KB)
Start Date: 2008.02.08 End Date: 2008.02.08
Start Time: 14:30:02 End Time: 21:41:00

Capacity: 7000.00 psig
Last Calib.: 2008.02.08
Time On Btm: 2008.02.08 @ 16:02:50
Time Off Btm: 2008.02.08 @ 19:49:09

TEST COMMENT: IF Strong blow BOB 6 min.
ISI Bled off no blow back
FF Strong blow BOB 8 min.
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1768.99	87.54	Initial Hydro-static
1	28.93	87.14	Open To Flow (1)
30	230.13	100.88	Shut-In(1)
91	1035.74	98.27	End Shut-In(1)
91	236.79	98.04	Open To Flow (2)
135	450.12	104.34	Shut-In(2)
225	1023.48	101.49	End Shut-In(2)
227	1749.44	98.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	Water 64,000ppm chl	8.56
120.00	MW 30%M 70%W	1.68
120.00	WM 30%W 70%M	1.68
65.00	WCM 15%W 85%M	0.91
0.00	(Very slight Oil show)	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

Unrein Unit # 1-16

16 5S 26W Decatur KS

Job Ticket: 31579 **DST#: 2**

Test Start: 2008.02.08 @ 14:30:00

Tool Information

Drill Pipe:	Length:	3609.00 ft	Diameter:	3.80 inches	Volume:	50.62 bbl	Tool Weight:		3000.00 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:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		55000.00 lb
					Total Volume:	50.77 bbl	Tool Chased		4.00 ft
Drill Pipe Above KB:		16.00 ft					String Weight:	Initial	46000.00 lb
Depth to Top Packer:		3646.00 ft						Final	53000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		79.00 ft							
Tool Length:		102.00 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	
Shut In Tool	5.00			3628.00		
Hydraulic tool	5.00			3633.00		
Safety Joint	3.00			3636.00		
Packer	5.00			3641.00	23.00	Bottom Of Top Packer
Packer	5.00			3646.00		
Stubb	1.00			3647.00		
Recorder	0.00	6799	Inside	3647.00		
Recorder	0.00	8352	Inside	3647.00		
Perforations	38.00			3685.00		
Blank Spacing	33.00			3718.00		
Bullnose	7.00			3725.00	79.00	Bottom Packers & Anchor
Total Tool Length:	**102.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

Unrein Unit # 1-16

16 5S 26W Decatur KS

Job Ticket: 31579 **DST#: 2**

Test Start: 2008.02.08 @ 14:30:00

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:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

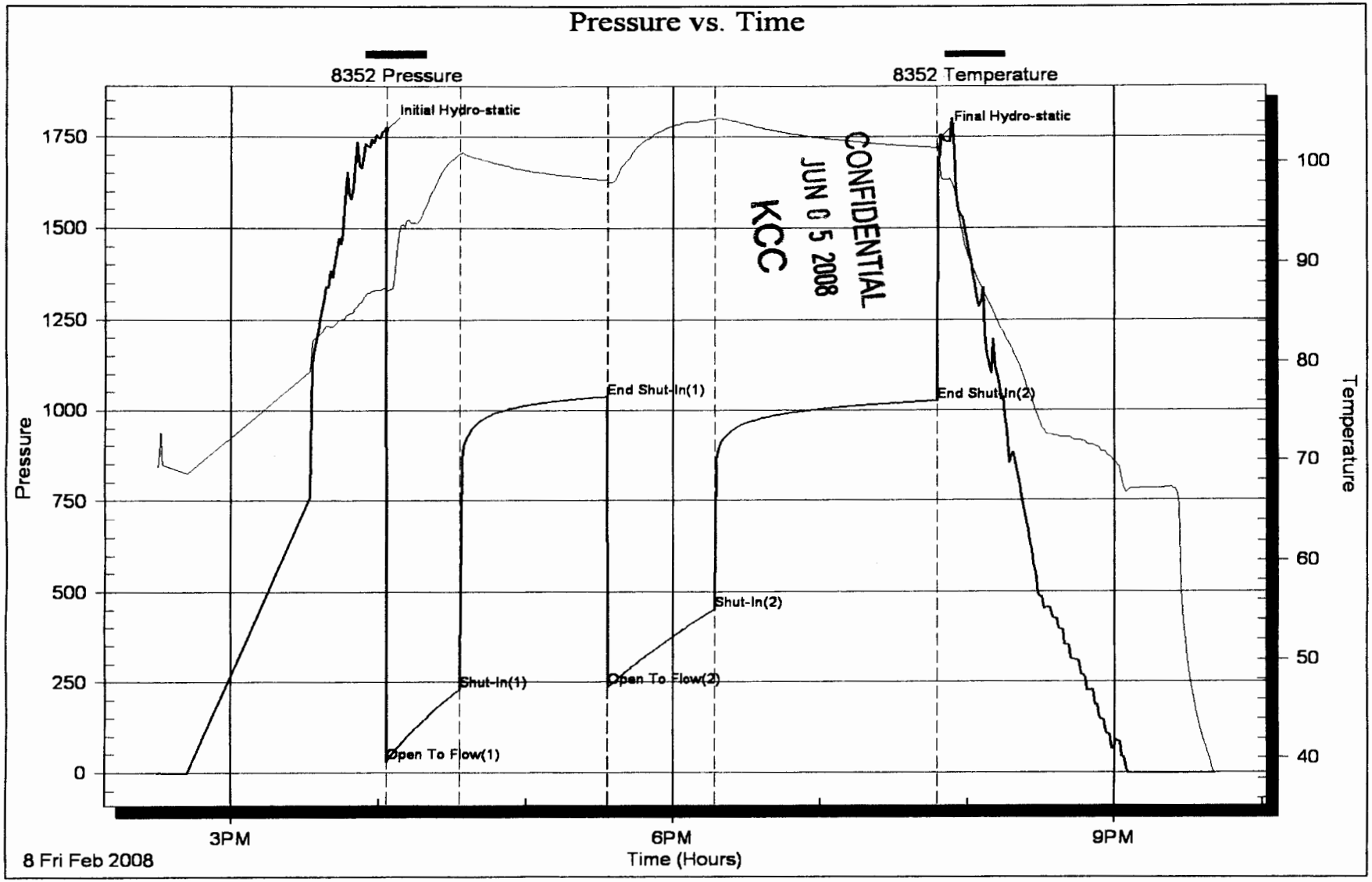
Length ft	Description	Volume bbl
630.00	Water 64,000ppm chl	8.564
120.00	MW 30%M 70%W	1.683
120.00	WM 30%W 70%M	1.683
65.00	WCM 15%W 85%M	0.912
0.00	(Very slight Oil show)	0.000

Total Length: 935.00 ft Total Volume: 12.842 bbl

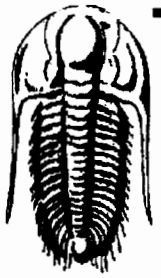
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



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JUN 05 2008
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CONFIDENTIAL
JUN 0 5 2008
KCC

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

16 5S 26W Decatur KS

Unrein Unit # 1-16

Start Date: 2008.02.09 @ 08:15:00
End Date: 2008.02.09 @ 14:50:09
Job Ticket #: 31580 DST #: 3

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

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JUN 0 5 2008
CONSERVATION DIVISION
WICHITA, KS

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

Unrein Unit # 1-16

16 5S 26W Decatur KS

Job Ticket: 31580 **DST#: 3**

Test Start: 2008.02.09 @ 08:15:00

GENERAL INFORMATION:

Formation: **Lansing "H-L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:22:20
Time Test Ended: 14:50:09

Test Type: Conventional Bottom Hole
Tester: Jake Fahrenbruch
Unit No: 43

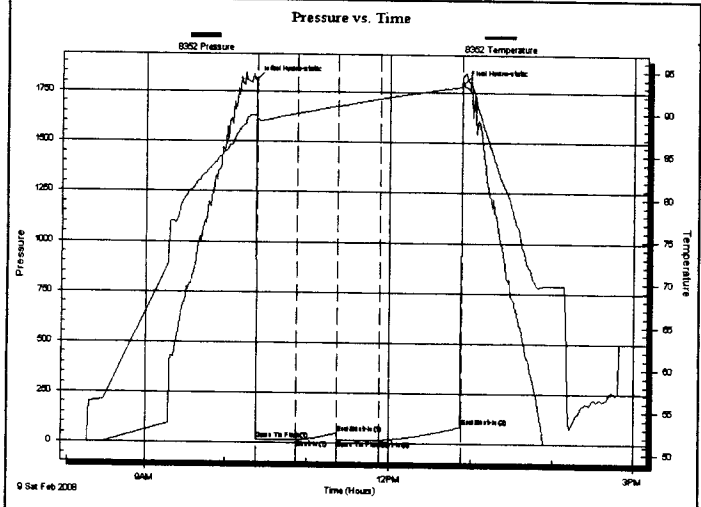
Interval: 3730.00 ft (KB) To 3820.00 ft (KB) (TVD)
Total Depth: 3820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2610.00 ft (KB)
2605.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8352 **Inside**
Press@RunDepth: 15.88 psig @ 3731.00 ft (KB)
Start Date: 2008.02.09 End Date: 2008.02.09
Start Time: 08:15:02 End Time: 14:50:10

Capacity: 7000.00 psig
Last Calib.: 2008.02.09
Time On Btm: 2008.02.09 @ 10:21:50
Time Off Btm: 2008.02.09 @ 12:54:00

TEST COMMENT: IF Weak .25 " blow dead after 17 min
ISI No blow back
FF No blow
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1808.35	89.68	Initial Hydro-static
1	13.90	88.96	Open To Flow (1)
31	14.98	89.88	Shut-In(1)
61	49.39	90.81	End Shut-In(1)
61	15.03	90.80	Open To Flow (2)
92	15.88	91.70	Shut-In(2)
152	86.10	93.16	End Shut-In(2)
153	1794.52	94.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

Unrein Unit # 1-16

16 5S 26W Decatur KS

Job Ticket: 31580 **DST#: 3**

Test Start: 2008.02.09 @ 08:15:00

Tool Information

Drill Pipe:	Length:	3702.00 ft	Diameter:	3.80 inches	Volume:	51.93 bbl	Tool Weight:	3200.00 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:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	52.08 bbl	Tool Chased	10.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight: Initial	47000.00 lb
Depth to Top Packer:		3730.00 ft					Final	47000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		90.00 ft						
Tool Length:		113.00 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	
Shut In Tool	5.00			3712.00		
Hydraulic tool	5.00			3717.00		
Safety Joint	3.00			3720.00		
Packer	5.00			3725.00	23.00	Bottom Of Top Packer
Packer	5.00			3730.00		
Stubb	1.00			3731.00		
Recorder	0.00	6799	Inside	3731.00		
Recorder	0.00	8352	Inside	3731.00		
Perforations	19.00			3750.00		
Blank Spacing	63.00			3813.00		
Bullnose	7.00			3820.00	90.00	Bottom Packers & Anchor
Total Tool Length:	**113.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Terry McLeod

Unrein Unit # 1-16

16 5S 26W Decatur KS

Job Ticket: 31580 **DST#: 3**

Test Start: 2008.02.09 @ 08:15:00

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:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.40 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1600.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

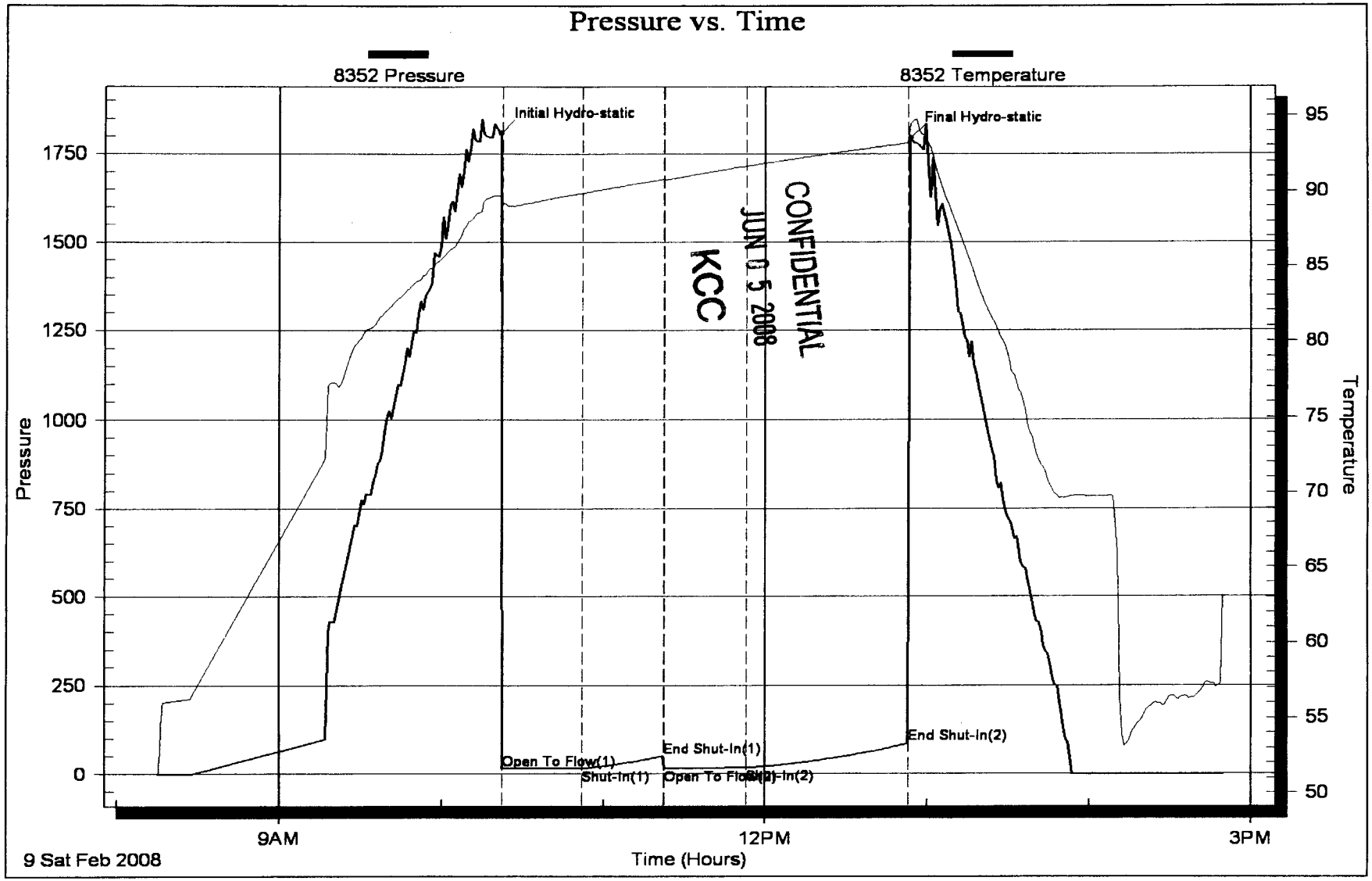
Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8352 Pressure
8352 Temperature
Initial Hydro-static
Final Hydro-static
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JUN 05 2008
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End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
95
90
85
80
75
70
65
60
55
50
9AM
12PM
3PM
9 Sat Feb 2008
Time (Hours)