15-185-23553

12-22s-13w

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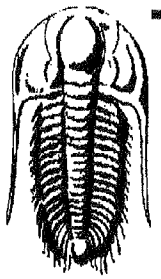


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water Ste. 300
Wichita, KS 67202-1216

KCC
FEB 11 2009
CONFIDENTIAL

ATTN: Terry McLeod

12 22 13 Stafford KS

Fischer Hullman Unit #1-12

Start Date: 2008.10.17 @ 11:30:00

End Date: 2008.10.17 @ 19:14:45

Job Ticket #: 34129 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION
FEB 12 2009
CONSERVATION DIVISION
WICHITA, KS

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

Murfin Drilling Co. Inc.
Fischer Hullman Unit #1-12
12 22 13 Stafford KS
DST # 1
Upper KC.
2008.10.17

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34129 **DST#: 1**

Test Start: 2008.10.17 @ 11:30:00

GENERAL INFORMATION:

Formation: **Upper KC.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:57:00
Time Test Ended: 19:14:45

Test Type: Conventional Bottom Hole
Tester: Harley Davidson
Unit No: 33

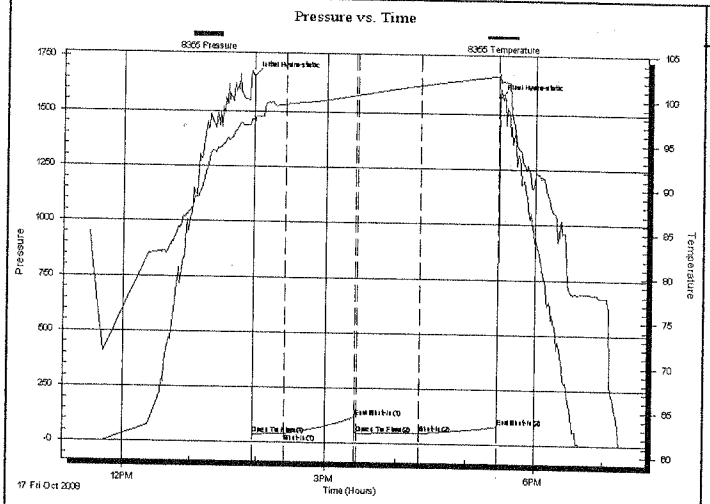
Interval: 3371.00 ft (KB) To 3434.00 ft (KB) (TVD)
Total Depth: 3434.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 1890.00 ft (KB)
1878.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8355 **Inside**
Press@RunDepth: 49.67 psig @ 3378.00 ft (KB)
Start Date: 2008.10.17 End Date: 2008.10.17
Start Time: 11:30:01 End Time: 19:14:45

Capacity: 7000.00 psig
Last Calib.: 2008.10.17
Time On Btm: 2008.10.17 @ 13:56:45
Time Off Btm: 2008.10.17 @ 17:27:30

TEST COMMENT: IF- Weak blow built to 3/4in.
ISI- No blow back.
FF- Weak surface blow.
FSI- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.09	97.65	Initial Hydro-static
1	35.40	96.75	Open To Flow (1)
28	42.83	99.26	Shut-In(1)
89	120.00	100.36	End Shut-In(1)
91	46.47	100.41	Open To Flow (2)
143	49.67	101.54	Shut-In(2)
211	82.89	102.71	End Shut-In(2)
211	1575.03	103.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	100%mud trace water,slight spotty oil	0.20

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34129 **DST#: 1**

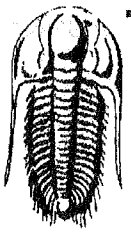
Test Start: 2008.10.17 @ 11:30:00

Tool Information

Drill Pipe:	Length:	3179.00 ft	Diameter:	3.80 inches	Volume:	44.59 bbl	Tool Weight:	2000.00 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:	179.00 ft	Diameter:	2.25 inches	Volume:	0.88 bbl	Weight to Pull Loose:	45000.00 lb
					Total Volume:	45.47 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		5.00 ft					String Weight: Initial	45000.00 lb
Depth to Top Packer:		3371.00 ft					Final	45000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		63.00 ft						
Tool Length:		81.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3358.00		
Hydraulic tool	5.00			3363.00		
Packer - Shale	3.00			3366.00		
Packer	5.00			3371.00	18.00	Bottom Of Top Packer
Packer - Shale	4.00			3375.00		
Stubb	1.00			3376.00		
Perforations	1.00			3377.00		
Change Over Sub	1.00			3378.00		
Recorder	0.00	6751	Inside	3378.00		
Recorder	0.00	8355	Inside	3378.00		
Drill Pipe	31.00			3409.00		
Change Over Sub	1.00			3410.00		
Change Over Sub	1.00			3411.00		
Perforations	19.00			3430.00		
Bullnose	4.00			3434.00	63.00	Anchor Tool
Total Tool Length:	**81.00**					



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34129 **DST#: 1**

Test Start: 2008.10.17 @ 11:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.74 in³
Resistivity: ohm.m
Salinity: 8500.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

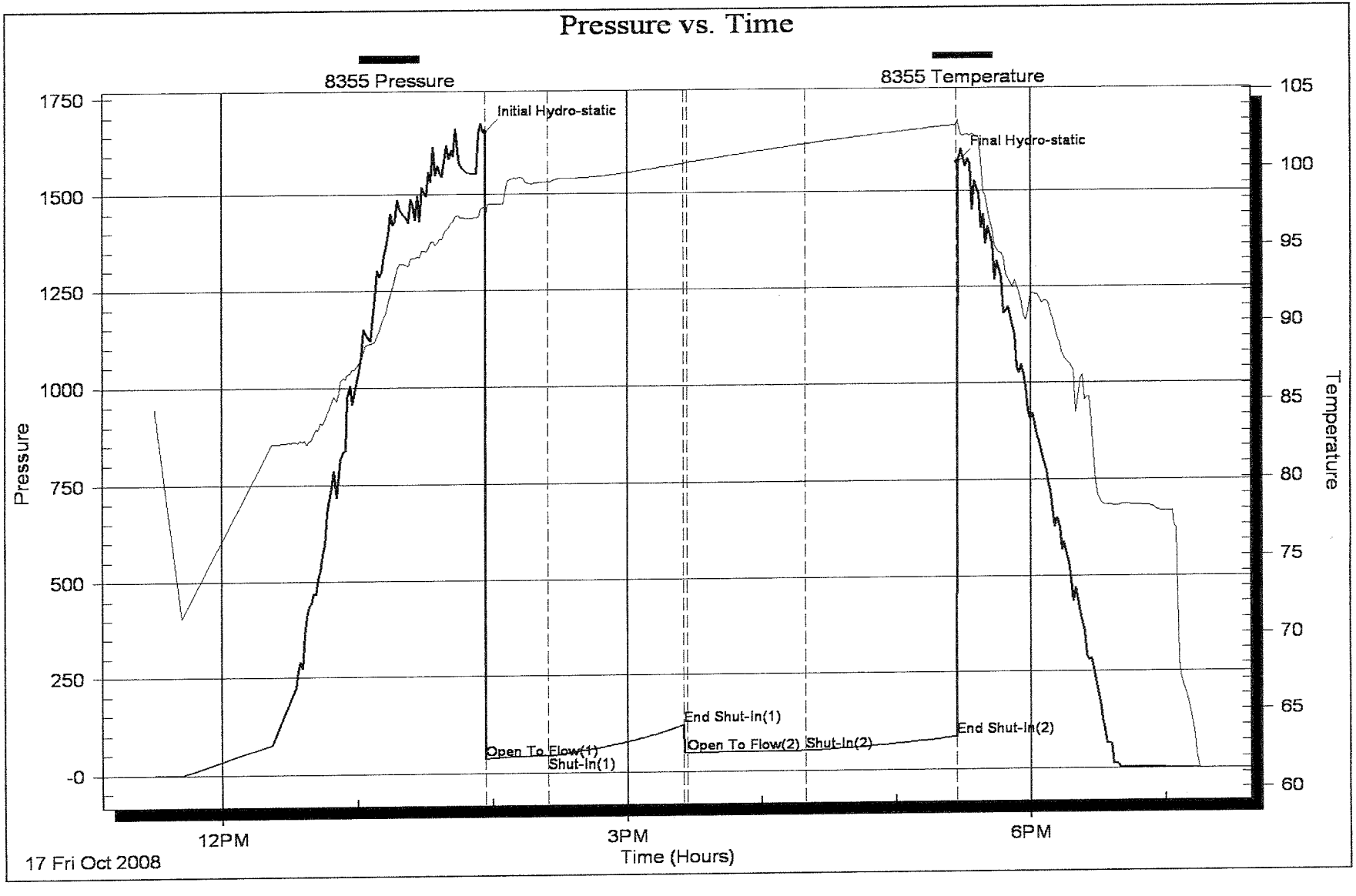
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	100%mud trace water,slight spotty oil	0.197

Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8355 Pressure
8355 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
1750
1500
1250
1000
750
500
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Pressure
105
100
95
90
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80
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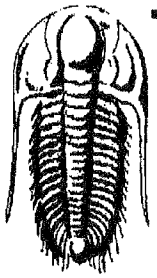
Temperature
12PM
3PM
6PM
Time (Hours)
17 Fri Oct 2008



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

12 22 13 Stafford KS

Fischer Hullman Unit #1-12

Start Date: 2008.10.18 @ 06:00:00
End Date: 2008.10.18 @ 13:50:30
Job Ticket #: 34130 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

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34130 **DST#: 2**

Test Start: 2008.10.18 @ 06:00:00

GENERAL INFORMATION:

Formation: **Lower KC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:08:00
Time Test Ended: 13:50:30

Test Type: Conventional Bottom Hole
Tester: Harley Davidson
Unit No: 33

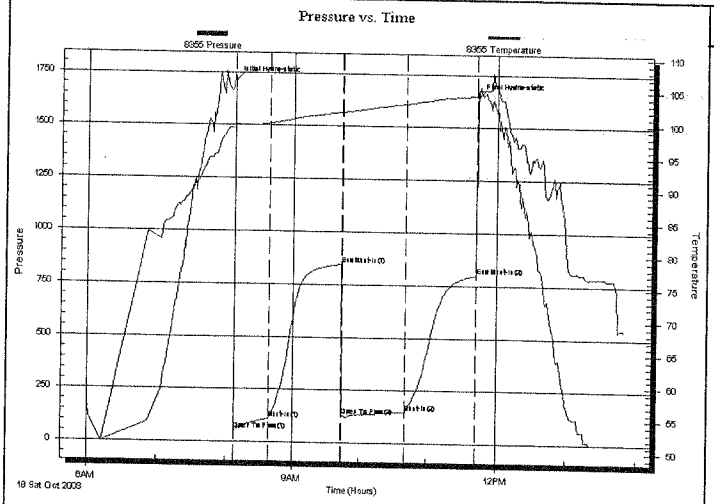
Interval: 3474.00 ft (KB) To 3570.00 ft (KB) (TVD)
Total Depth: 3570.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 1890.00 ft (KB)
1878.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8355 **Inside**
Press@RunDepth: 148.75 psig @ 3479.00 ft (KB)
Start Date: 2008.10.18 End Date: 2008.10.18
Start Time: 06:00:01 End Time: 13:50:30

Capacity: 7000.00 psig
Last Calib.: 2008.10.18
Time On Btm: 2008.10.18 @ 08:07:45
Time Off Btm: 2008.10.18 @ 11:43:30

TEST COMMENT: IF- Good building blow , BOB 14min.
ISI- No blow back.
FF- Weak building blow BOB 35min.
FSI- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.28	99.37	Initial Hydro-static
1	57.81	99.28	Open To Flow (1)
31	111.07	99.90	Shut-In(1)
96	845.79	101.75	End Shut-In(1)
96	130.15	101.72	Open To Flow (2)
154	148.75	103.04	Shut-In(2)
215	799.50	104.35	End Shut-In(2)
216	1642.30	104.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	trace oil 100% mud.	0.34
125.00	trace gas 5%oil 45%water 50% mud	0.76

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34130 **DST#: 2**

Test Start: 2008.10.18 @ 06:00:00

Tool Information

Drill Pipe:	Length:	3300.00 ft	Diameter:	3.80 inches	Volume:	46.29 bbl	Tool Weight:	2000.00 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:	179.00 ft	Diameter:	2.25 inches	Volume:	0.88 bbl	Weight to Pull Loose:	44000.00 lb
					Total Volume:	47.17 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight: Initial	44000.00 lb
Depth to Top Packer:		3474.00 ft					Final	44000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		96.00 ft						
Tool Length:		119.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3456.00		
Hydraulic tool	5.00			3461.00		
Jars	5.00			3466.00		
Safety Joint	3.00			3469.00		
Packer	5.00			3474.00	23.00	Bottom Of Top Packer
Packer - Shale	4.00			3478.00		
Stubb	1.00			3479.00		
Recorder	0.00	6751	Inside	3479.00		
Recorder	0.00	8355	Inside	3479.00		
Change Over Sub	1.00			3480.00		
Drill Pipe	62.00			3542.00		
Change Over Sub	1.00			3543.00		
Perforations	23.00			3566.00		
Bullnose	4.00			3570.00	96.00	Anchor Tool
Total Tool Length:	**119.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34130 **DST#: 2**

Test Start: 2008.10.18 @ 06:00:00

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:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.95 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

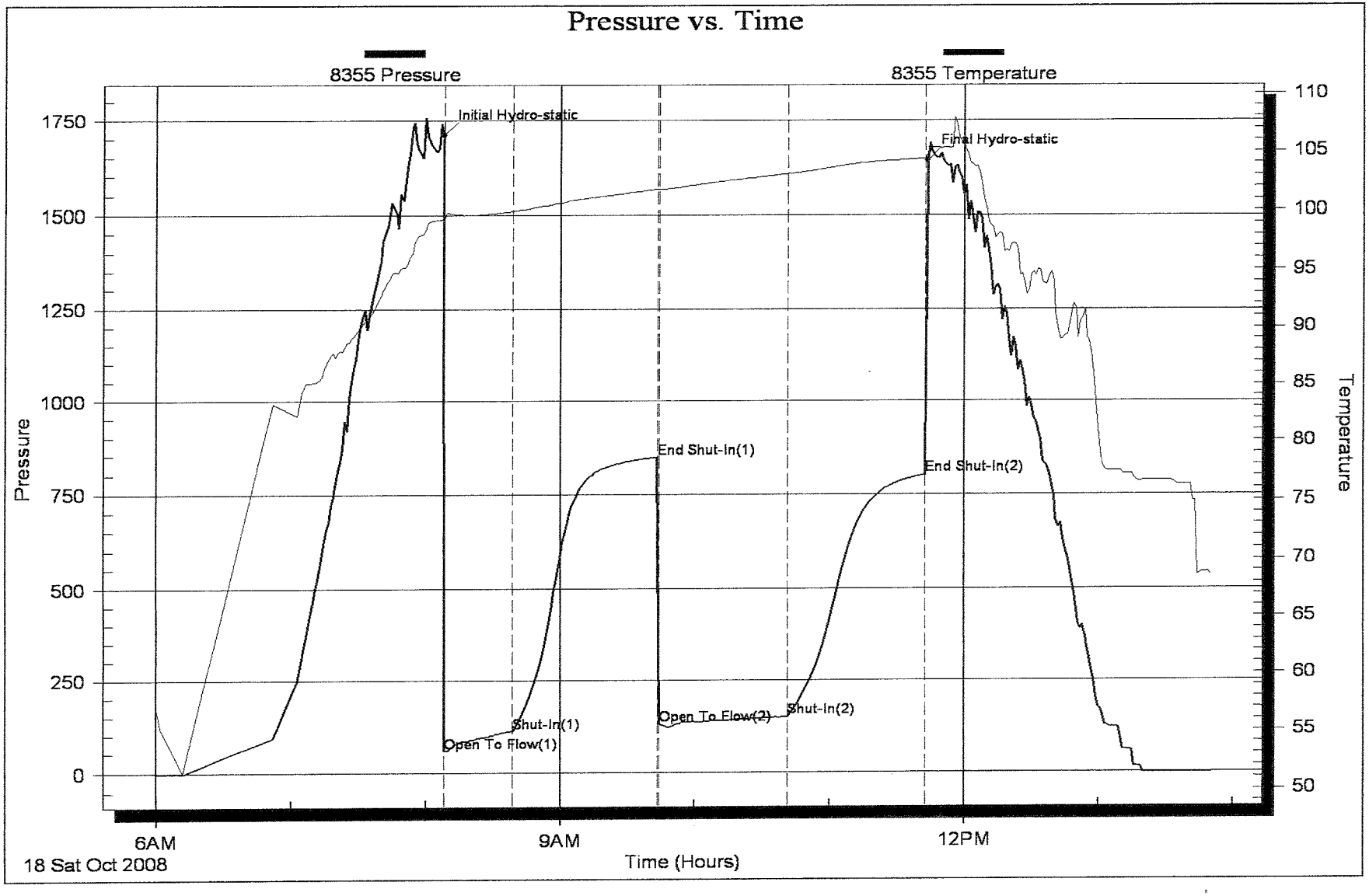
Length ft	Description	Volume bbl
70.00	trace oil 100% mud.	0.344
125.00	trace gas 5%oil 45%w ater 50% mud	0.760

Total Length: 195.00 ft Total Volume: 1.104 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .75 @ 70F = 8000 ppm


Pressure vs. Time
8355 Pressure
8355 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
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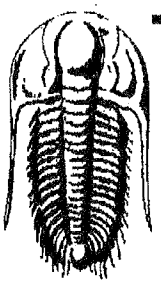


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

12 22 13 Stafford KS

Fischer Hullman Unit #1-12

Start Date: 2008.10.19 @ 00:15:00

End Date: 2008.10.19 @ 11:21:45

Job Ticket #: 34131 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

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34131 **DST#: 3**

Test Start: 2008.10.19 @ 00:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:21:45
Time Test Ended: 11:21:45

Test Type: Conventional Bottom Hole
Tester: Harley Davidson
Unit No: 33

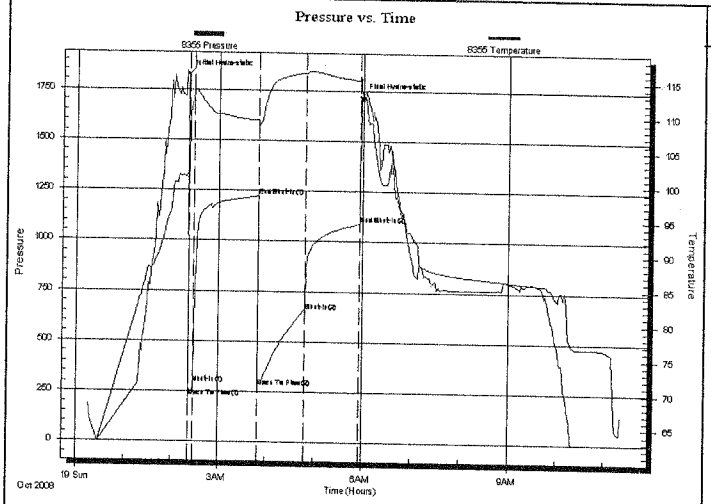
Interval: 3654.00 ft (KB) To 3717.00 ft (KB) (TVD)
Total Depth: 3717.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 1890.00 ft (KB)
1878.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8355 **Inside**
Press@RunDepth: 655.09 psig @ 3659.00 ft (KB)
Start Date: 2008.10.19 End Date: 2008.10.19
Start Time: 00:15:01 End Time: 11:21:45

Capacity: 7000.00 psig
Last Calib.: 2008.10.19
Time On Btm: 2008.10.19 @ 02:21:15
Time Off Btm: 2008.10.19 @ 05:57:15

TEST COMMENT: IF- Strong blow BOB 1min.
ISI- Blow back built to 5".
FF- Strong blow BOB, ASAO, GTS 40min. TSTM.
FSI- Blow back built to 8".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1823.61	101.79	Initial Hydro-static
1	220.63	101.95	Open To Flow (1)
7	288.64	113.14	Shut-In(1)
89	1220.82	109.30	End Shut-In(1)
90	275.45	109.01	Open To Flow (2)
148	655.09	116.10	Shut-In(2)
216	1088.33	115.06	End Shut-In(2)
216	1719.07	115.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1476.00	5%gas 95% oil.	19.07
124.00	5%gas 45%oil 50%mud.	1.74

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34131 **DST#: 3**

Test Start: 2008.10.19 @ 00:15:00

Tool Information

Drill Pipe:	Length:	3458.00 ft	Diameter:	3.80 inches	Volume:	48.51 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	179.00 ft	Diameter:	2.25 inches	Volume:	0.88 bbl	
					Total Volume:	49.39 bbl	

Drill Pipe Above KB:	6.00 ft
Depth to Top Packer:	3654.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	63.00 ft
Tool Length:	86.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:	2000.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	50000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	44000.00 lb
Final	50000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3636.00		
Hydraulic tool	5.00			3641.00		
Jars	5.00			3646.00		
Safety Joint	3.00			3649.00		
Packer	5.00			3654.00	23.00	Bottom Of Top Packer
Packer - Shale	4.00			3658.00		
Stubb	1.00			3659.00		
Recorder	0.00	6751	Inside	3659.00		
Recorder	0.00	8355	Inside	3659.00		
Change Over Sub	1.00			3660.00		
Drill Pipe	31.00			3691.00		
Change Over Sub	1.00			3692.00		
Perforations	21.00			3713.00		
Bullnose	4.00			3717.00	63.00	Anchor Tool
Total Tool Length:	**86.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34131 **DST#: 3**

Test Start: 2008.10.19 @ 00:15:00

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:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.95 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

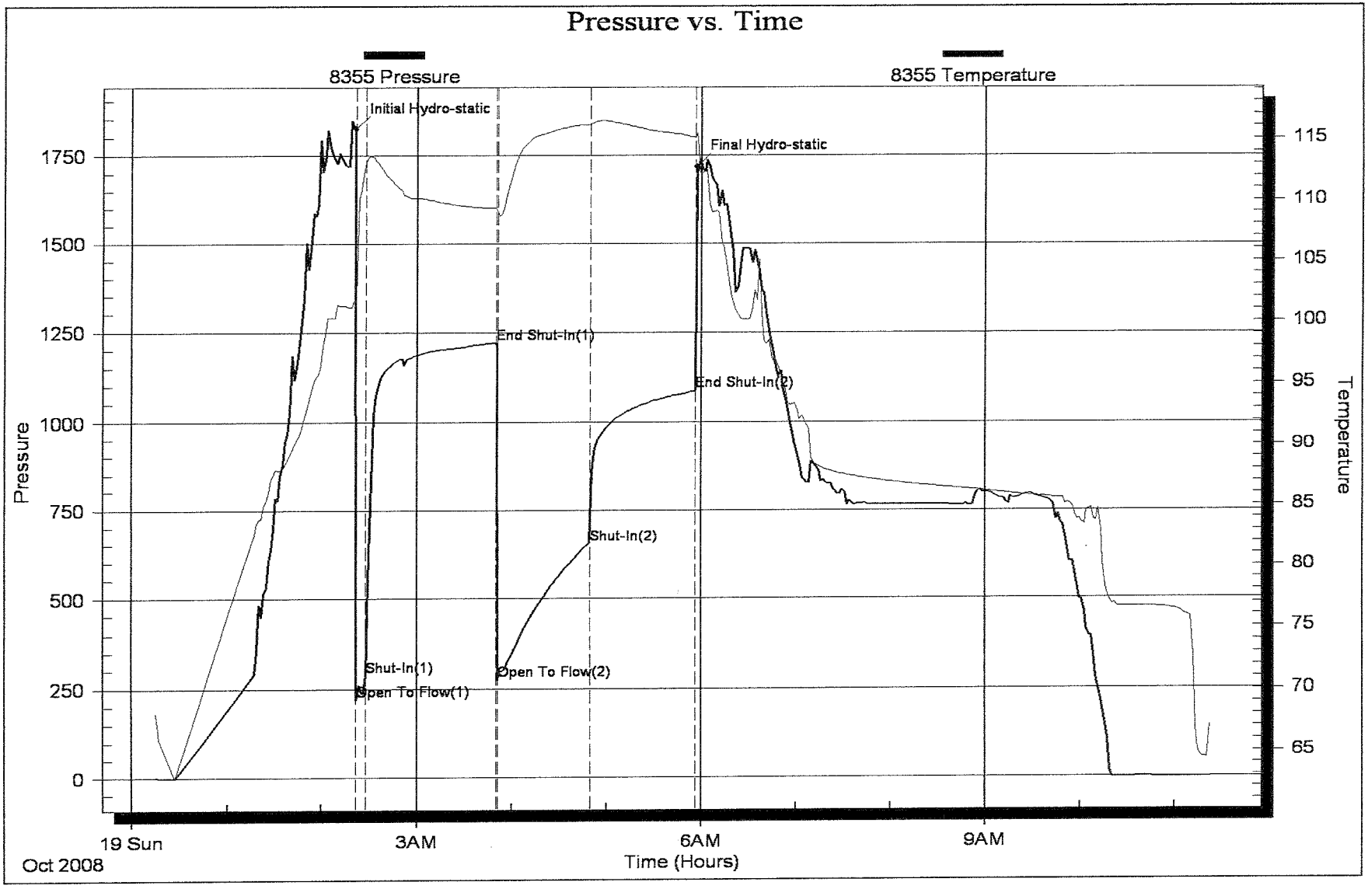
Length ft	Description	Volume bbl
1476.00	5%gas 95% oil.	19.074
124.00	5%gas 45%oil 50%mud.	1.739

Total Length: 1600.00 ft Total Volume: 20.813 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8355 Pressure
8355 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
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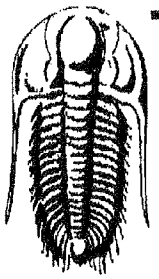


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

12 22 13 Stafford KS

Fischer Hullman Unit #1-12

Start Date: 2008.10.19 @ 17:15:01

End Date: 2008.10.20 @ 01:26:30

Job Ticket #: 34132 DST #: 4

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

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34132 **DST#: 4**

Test Start: 2008.10.19 @ 17:15:01

GENERAL INFORMATION:

Formation: **Arbuckle #2**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:20:15
Time Test Ended: 01:26:30

Test Type: Conventional Bottom Hole
Tester: Harley Davidson
Unit No: 33

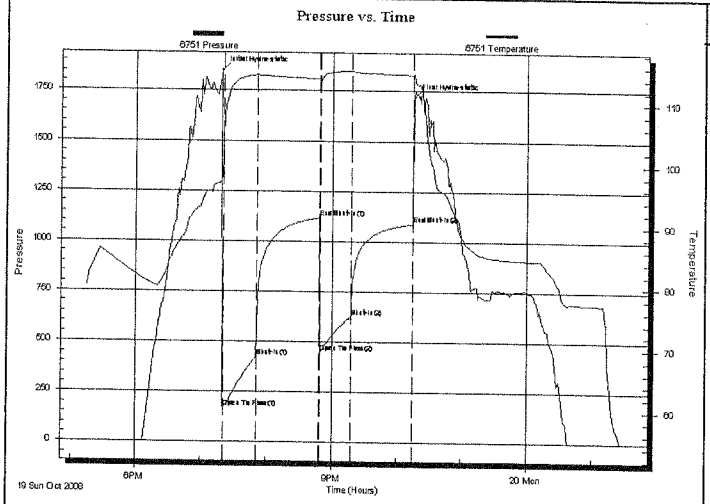
Interval: 3717.00 ft (KB) To 3732.00 ft (KB) (TVD)
Total Depth: 3732.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 1890.00 ft (KB)
1878.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6751 **Inside**
Press@RunDepth: 626.26 psig @ 3722.00 ft (KB)
Start Date: 2008.10.19 End Date: 2008.10.20
Start Time: 17:15:01 End Time: 01:26:30

Capacity: 7000.00 psig
Last Calib.: 2008.10.20
Time On Btm: 2008.10.19 @ 19:19:00
Time Off Btm: 2008.10.19 @ 22:15:45

TEST COMMENT: IF- Strong blow BOB ASAO. NO GTS.
ISI- Strong blow back.
FF- Strong blow BOB ASAO. NO GTS.
FSI- Strong blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1848.41	97.45	Initial Hydro-static
2	172.09	101.60	Open To Flow (1)
32	422.13	114.72	Shut-In(1)
90	1117.49	114.11	End Shut-In(1)
90	447.86	113.86	Open To Flow (2)
119	626.26	115.41	Shut-In(2)
176	1088.75	114.81	End Shut-In(2)
177	1717.85	114.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1300.00	30%gas 70%oil trace of mud	16.60
180.00	100% water trace of mud	2.52

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34132 **DST#: 4**

Test Start: 2008.10.19 @ 17:15:01

Tool Information

Drill Pipe:	Length:	3526.00 ft	Diameter:	3.80 inches	Volume:	49.46 bbl	Tool Weight:	2000.00 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:	179.00 ft	Diameter:	2.25 inches	Volume:	0.88 bbl	Weight to Pull Loose:	49000.00 lb
					Total Volume:	50.34 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight: Initial	45000.00 lb
Depth to Top Packer:		3717.00 ft					Final	49000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		15.00 ft						
Tool Length:		33.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3704.00		
Hydraulic tool	5.00			3709.00		
Safety Joint	3.00			3712.00		
Packer	5.00			3717.00	18.00	Bottom Of Top Packer
Packer - Shale	4.00			3721.00		
Stubb	1.00			3722.00		
Recorder	0.00	6751	Inside	3722.00		
Recorder	0.00	8355	Inside	3722.00		
Perforations	6.00			3728.00		
Bullnose	4.00			3732.00	15.00	Anchor Tool
Total Tool Length:	**33.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

250 N Water Ste. 300
Wichita, KS 67202-1216

ATTN: Terry McLeod

Fischer Hullman Unit #1-12

12 22 13 Stafford KS

Job Ticket: 34132 **DST#: 4**

Test Start: 2008.10.19 @ 17:15:01

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.16 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8300.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

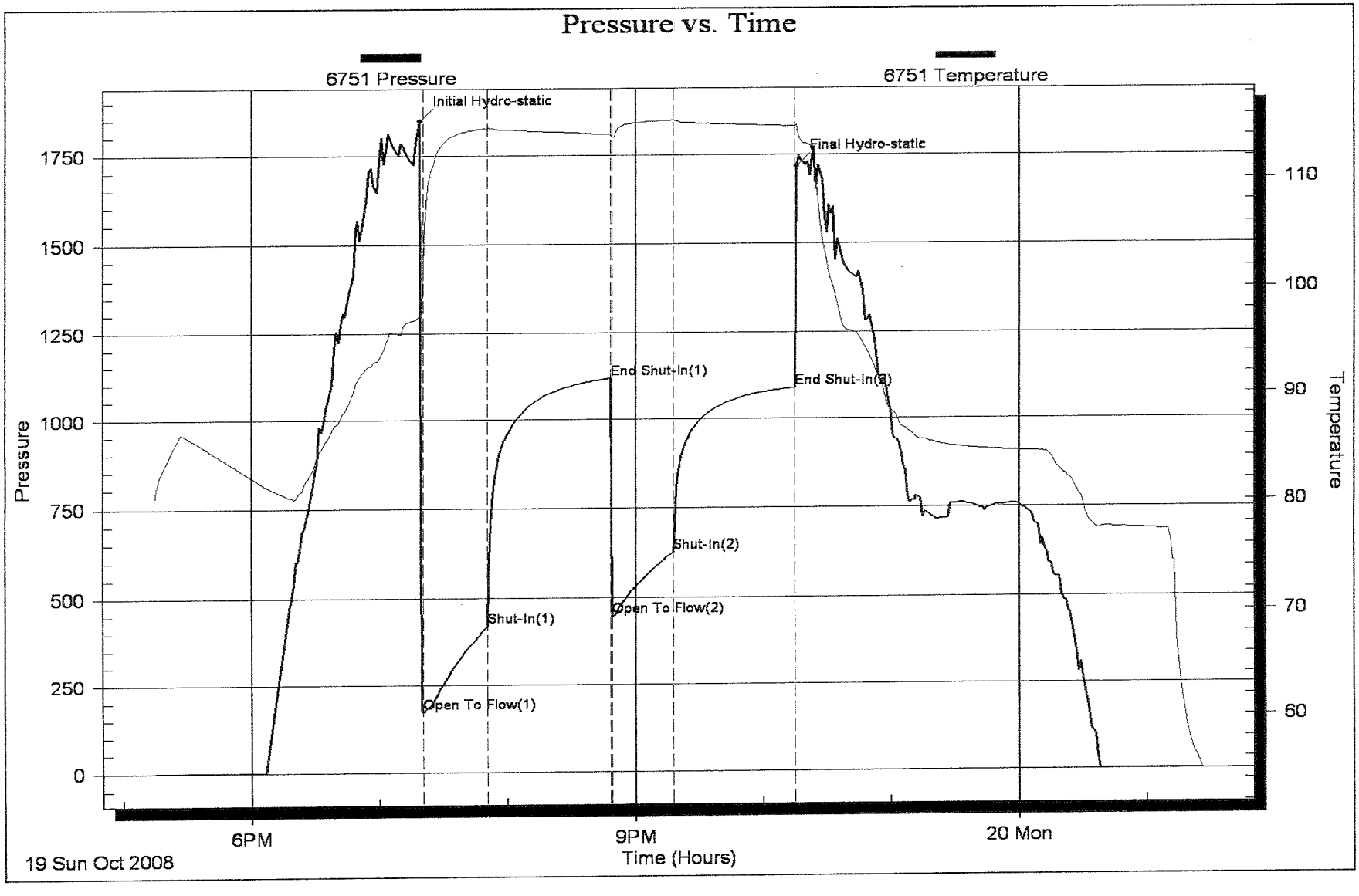
Length ft	Description	Volume bbl
1300.00	30%gas 70%oil trace of mud	16.605
180.00	100% water trace of mud	2.525

Total Length: 1480.00 ft Total Volume: 19.130 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .40 @ 57 F - 20000 ppm chlorides


Pressure vs. Time
6751 Pressure
6751 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
6PM
9PM
20 Mon
Time (Hours)
19 Sun Oct 2008