IND

CONFIDENTIAL

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

1 22 13W Stafford KS

Drach B # 4-1

Start Date: 2007.11.15 @ 14:20:04

End Date: 2007.11.15 @ 19:26:43

Job Ticket #: 29854 DST #: 1

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CONSERVATION DIVISION
WICHITA, KS

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

Murfin Drilling Co
Drach B # 4-1
1 22 13W Stafford KS
DST # 1
LKC A-G
2007.11.15

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29854 **DST#: 1**

Test Start: 2007.11.15 @ 14:20:04

GENERAL INFORMATION:

Formation: **LKC A-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:58:04
Time Test Ended: 19:26:43

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 24

Interval: 3317.00 ft (KB) To 3420.00 ft (KB) (TVD)
Total Depth: 3420.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

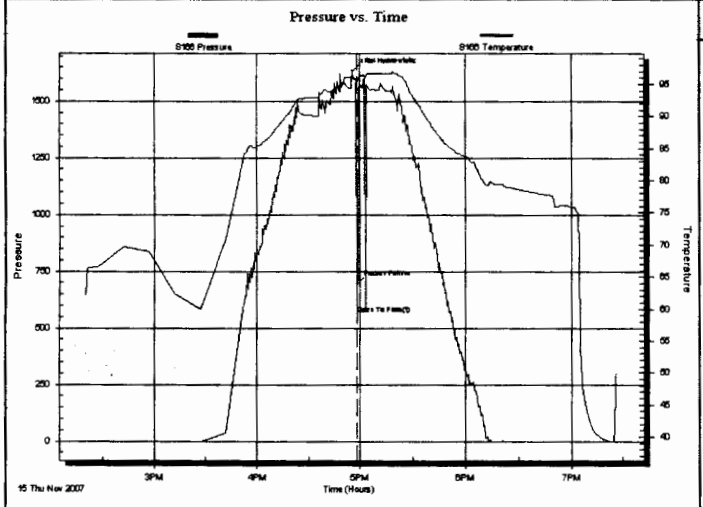
Reference Elevations: 1887.00 ft (KB)
1878.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8166 **Inside**

Press@RunDepth: psig @ 3318.00 ft (KB)
Start Date: 2007.11.15 End Date: 2007.11.15
Start Time: 14:20:09 End Time: 19:26:44

Capacity: 7000.00 psig
Last Calib.: 2007.11.15
Time On Btm: 2007.11.15 @ 16:55:44
Time Off Btm:

TEST COMMENT: Packer Failure Tried To Reset Packers Failed Again Pulled Test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.94	95.94	Initial Hydro-static
3	564.03	95.52	Open To Flow (1)
3	694.03	95.63	Packer Failure

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29854 **DST#: 1**

Test Start: 2007.11.15 @ 14:20:04

Tool Information

Drill Pipe:	Length:	3134.00 ft	Diameter:	3.80 inches	Volume:	43.96 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		35000.00 lb
Drill Collar:	Length:	183.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	Weight to Pull Loose:		48000.00 lb
					Total Volume:	44.86 bbl	Tool Chased		ft
Drill Pipe Above KB:		24.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3317.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		103.00 ft							
Tool Length:		127.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Circulating sub	1.00			3294.00		
Change Over Sub	1.00			3295.00		
Shut In Tool	5.00			3300.00		
Hydraulic tool	5.00			3305.00		
Safety Joint	3.00			3308.00		
Packer	5.00			3313.00	24.00	Bottom Of Top Packer
Packer	4.00			3317.00		
Stubb	1.00			3318.00		
Recorder	0.00	8166	Inside	3318.00		
Recorder	0.00	8356	Outside	3318.00		
Perforations	25.00			3343.00		
Drill Pipe	64.00			3407.00		
Perforations	10.00			3417.00		
Bullnose	3.00			3420.00	103.00	Bottom Packers & Anchor
Total Tool Length:	**127.00**					

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WICHITA, KS

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29854 **DST#: 1**

Test Start: 2007.11.15 @ 14:20:04

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

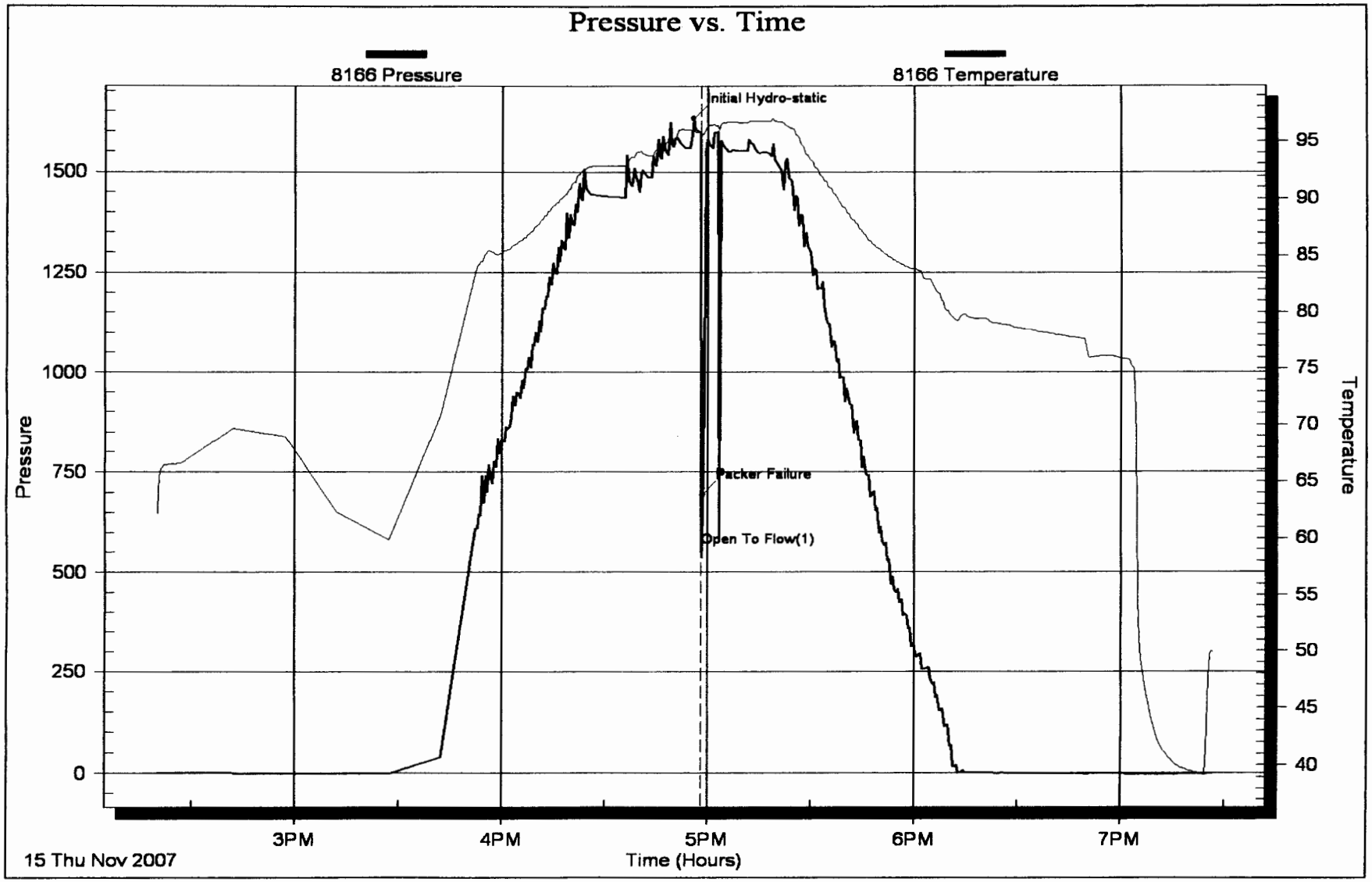
Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Packer Failure



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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

1 22 13W Stafford KS

Drach B # 4-1

Start Date: 2007.11.15 @ 19:35:26
End Date: 2007.11.16 @ 00:08:26
Job Ticket #: 29855 DST #: 2

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

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DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29855 **DST#: 2**

Test Start: 2007.11.15 @ 19:35:26

GENERAL INFORMATION:

Formation: **LKC A-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:40:06
Time Test Ended: 00:08:26

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 24

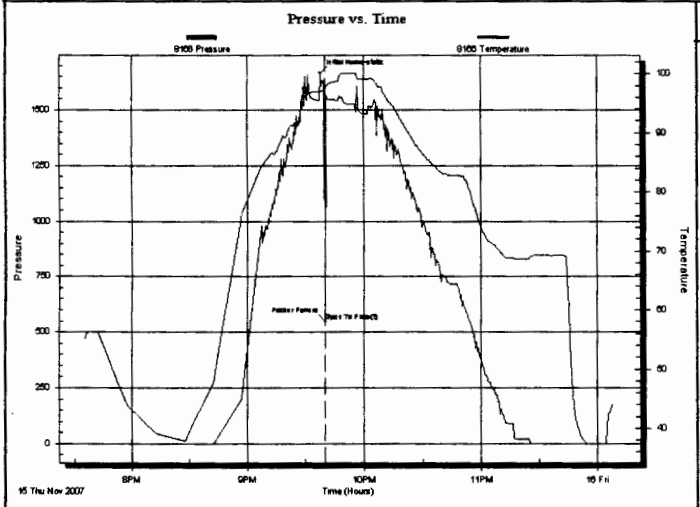
Interval: 3335.00 ft (KB) To 3420.00 ft (KB) (TVD)
Total Depth: 3420.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1887.00 ft (KB)
1878.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8166 **Inside**
Press@RunDepth: psig @ 3336.00 ft (KB)
Start Date: 2007.11.15 End Date: 2007.11.16
Start Time: 19:35:31 End Time: 00:08:25

Capacity: 7000.00 psig
Last Calib.: 2007.11.16
Time On Btm: 2007.11.15 @ 21:37:36
Time Off Btm:

TEST COMMENT: Packer Failure Or Possible Hydraulic Tool Failure



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.89	97.00	Initial Hydro-static
3	550.16	96.91	Open To Flow (1)
3	546.75	97.15	Packer Failure

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29855 **DST#: 2**

Test Start: 2007.11.15 @ 19:35:26

Tool Information

Drill Pipe:	Length:	3136.00 ft	Diameter:	3.80 inches	Volume:	43.99 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		38000.00 lb
Drill Collar:	Length:	183.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	Weight to Pull Loose:		48000.00 lb
					Total Volume:	44.89 bbl	Tool Chased		ft
Drill Pipe Above KB:		8.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3335.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		85.00 ft							
Tool Length:		109.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Circulating sub	1.00			3312.00		
Change Over Sub	1.00			3313.00		
Shut In Tool	5.00			3318.00		
Hydraulic tool	5.00			3323.00		
Safety Joint	3.00			3326.00		
Packer	5.00			3331.00	24.00	Bottom Of Top Packer
Packer	4.00			3335.00		
Stubb	1.00			3336.00		
Recorder	0.00	8166	Inside	3336.00		
Recorder	0.00	8356	Outside	3336.00		
Perforations	17.00			3353.00		
Drill Pipe	64.00			3417.00		
Bullnose	3.00			3420.00	85.00	Bottom Packers & Anchor
Total Tool Length:	**109.00**					

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WICHITA, KS

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29855 **DST#: 2**

Test Start: 2007.11.15 @ 19:35:26

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

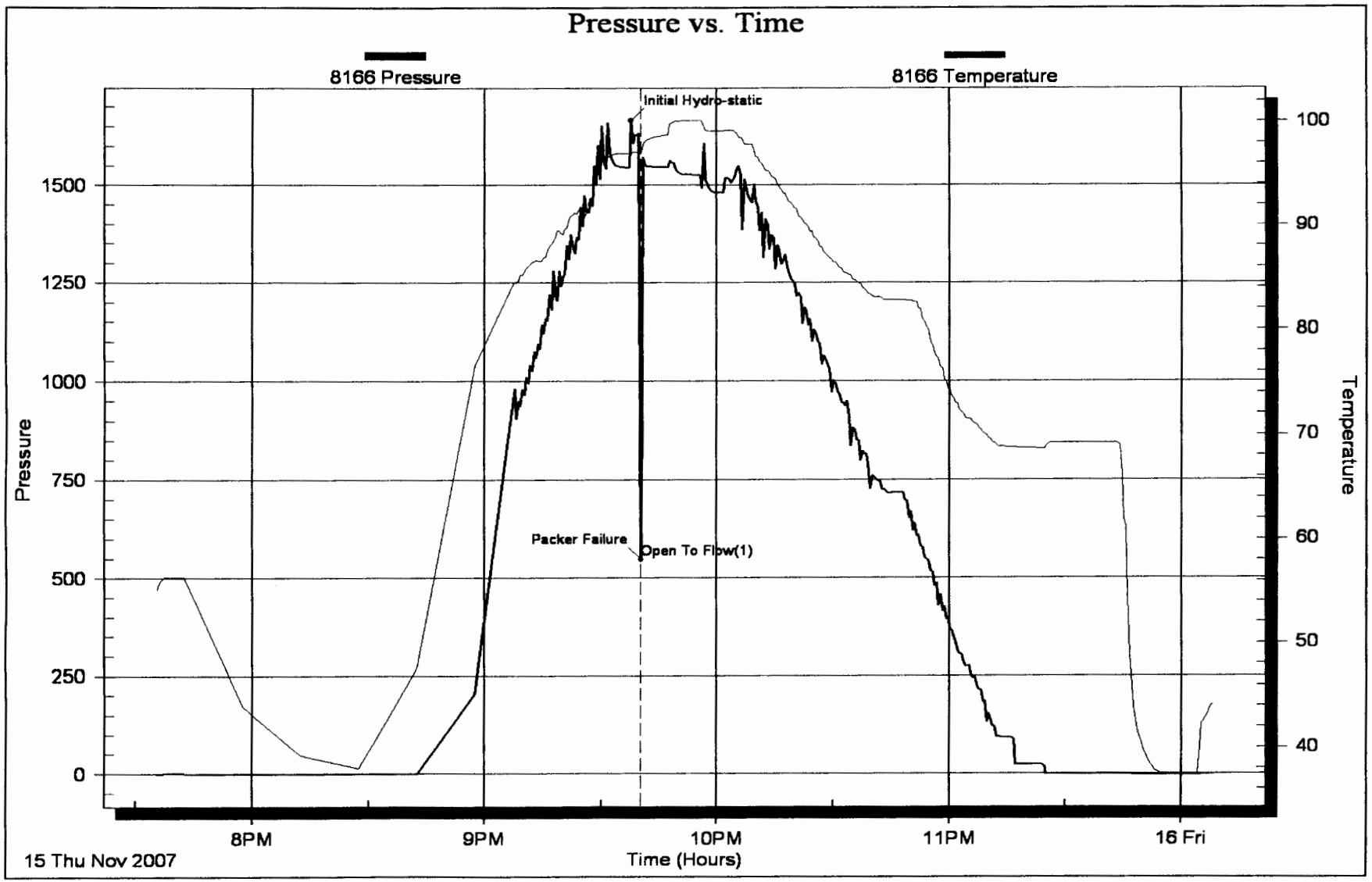
Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: Num Gas Bombs: Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



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WICHITA, KS

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

1 22 13W Stafford KS

Drach B # 4-1

Start Date: 2007.11.16 @ 10:03:56
End Date: 2007.11.16 @ 17:41:35
Job Ticket #: 29856 DST #: 3

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

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WICHITA, KS

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29856 **DST#: 3**

Test Start: 2007.11.16 @ 10:03:56

GENERAL INFORMATION:

Formation: **LKC H-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:43:26
Time Test Ended: 17:41:35

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 24

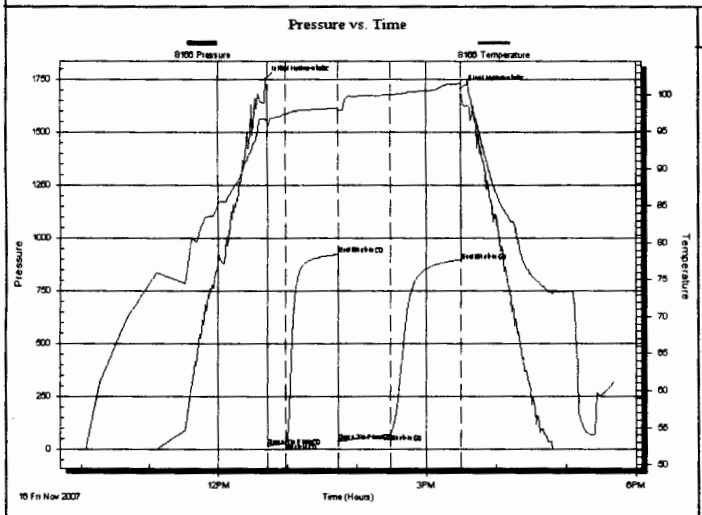
Interval: 3443.00 ft (KB) To 3545.00 ft (KB) (TVD)
Total Depth: 3545.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1887.00 ft (KB)
1878.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8166 **Inside**
Press@RunDepth: 73.83 psig @ 3444.00 ft (KB)
Start Date: 2007.11.16 End Date: 2007.11.16
Start Time: 10:04:01 End Time: 17:41:36

Capacity: 7000.00 psig
Last Calib.: 2007.11.16
Time On Btm: 2007.11.16 @ 12:41:36
Time Off Btm: 2007.11.16 @ 15:30:05

TEST COMMENT: IF Weak Surface Blow
ISI No Blow back
FF Weak Surface Blow
FSI No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1751.93	96.72	Initial Hydro-static
2	14.14	95.50	Open To Flow (1)
18	30.60	97.34	Shut-In(1)
63	922.85	98.19	End Shut-In(1)
63	36.07	97.90	Open To Flow (2)
108	73.83	99.94	Shut-In(2)
169	891.35	101.46	End Shut-In(2)
169	1706.15	101.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	SOSM -1%O +99%M	0.34

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29856 **DST#: 3**

Test Start: 2007.11.16 @ 10:03:56

Tool Information

Drill Pipe:	Length:	3261.00 ft	Diameter:	3.80 inches	Volume:	45.74 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	183.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	Weight to Pull Loose:		50000.00 lb
					Total Volume:	46.64 bbl	Tool Chased		ft
Drill Pipe Above KB:		25.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3443.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		102.00 ft							
Tool Length:		126.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Circulating sub	1.00			3420.00		
Change Over Sub	1.00			3421.00		
Shut In Tool	5.00			3426.00		
Hydraulic tool	5.00			3431.00		
Safety Joint	3.00			3434.00		
Packer	5.00			3439.00	24.00	Bottom Of Top Packer
Packer	4.00			3443.00		
Stubb	1.00			3444.00		
Recorder	0.00	8166	Inside	3444.00		
Recorder	0.00	8356	Outside	3444.00		
Perforations	25.00			3469.00		
Drill Pipe	64.00			3533.00		
Perforations	9.00			3542.00		
Bullnose	3.00			3545.00	102.00	Bottom Packers & Anchor
Total Tool Length:	**126.00**					

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WICHITA, KS

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29856 **DST#: 3**

Test Start: 2007.11.16 @ 10:03:56

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:	bbl		
Water Loss:	8.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	inches				

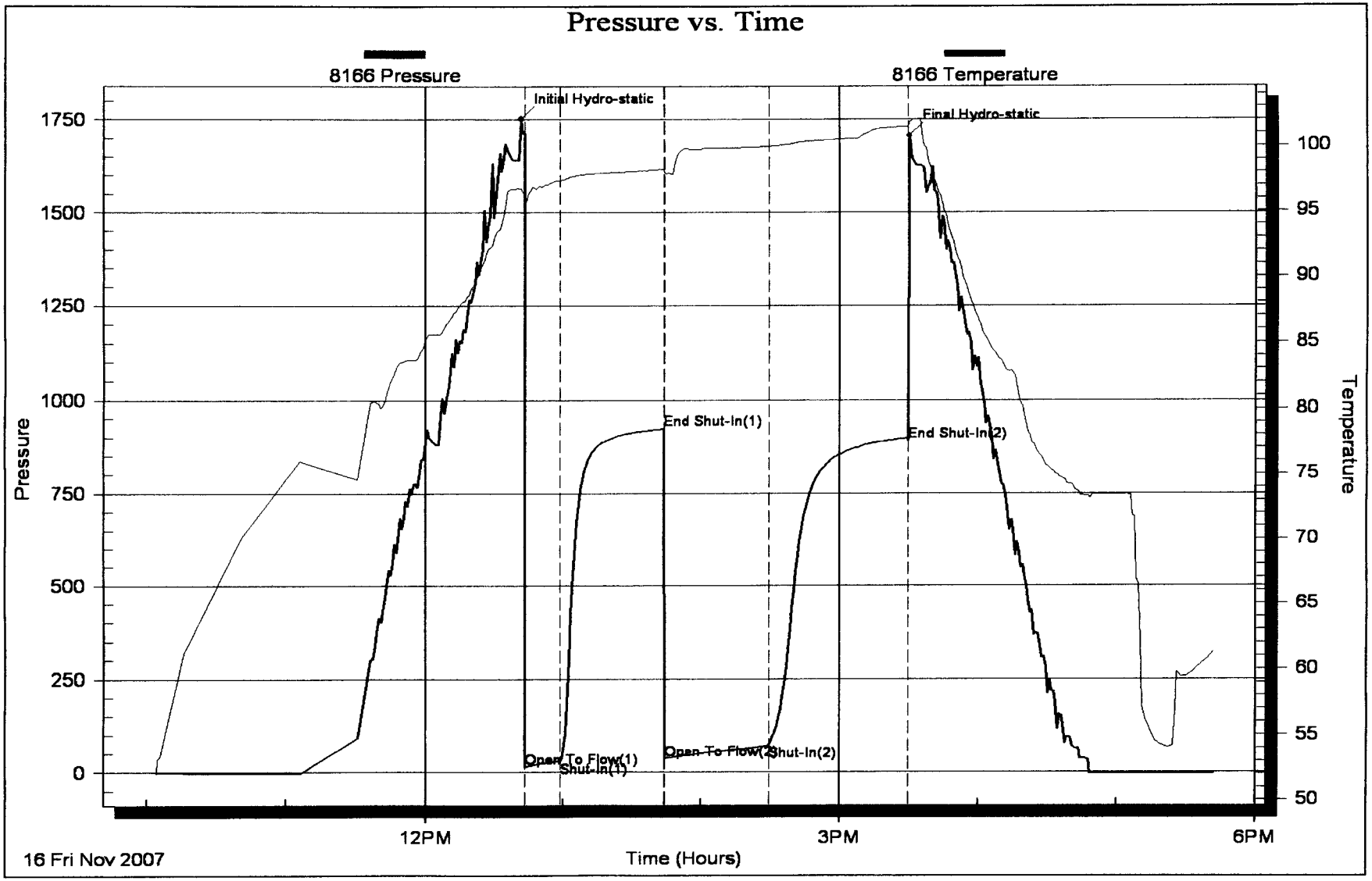
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	SOSM -1%O +99%M	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

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



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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

1 22 13W Stafford KS

Drach B # 4-1

Start Date: 2007.11.17 @ 03:22:17
End Date: 2007.11.17 @ 11:51:47
Job Ticket #: 29857 DST #: 4

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

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DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29857 **DST#: 4**

Test Start: 2007.11.17 @ 03:22:17

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:38:57
Time Test Ended: 11:51:47

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 24

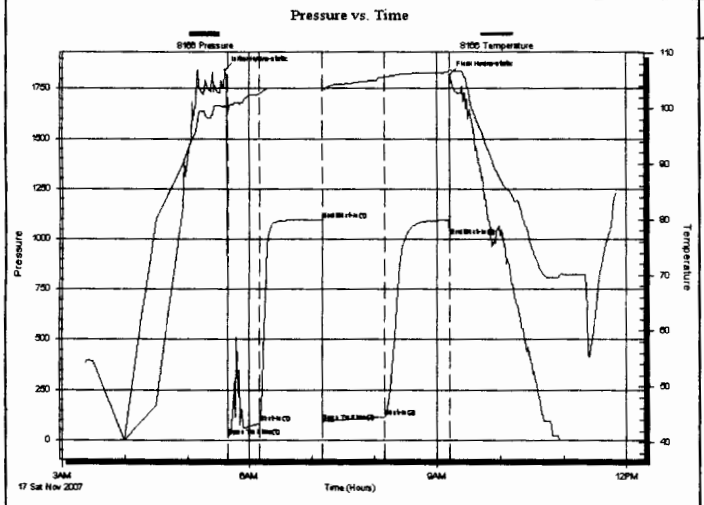
Interval: 3625.00 ft (KB) To 3692.00 ft (KB) (TVD)
Total Depth: 3692.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1887.00 ft (KB)
1878.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8166 **Inside**
Press@RunDepth: 115.67 psig @ 3626.00 ft (KB)
Start Date: 2007.11.17 End Date: 2007.11.17
Start Time: 03:22:22 End Time: 11:51:46

Capacity: 7000.00 psig
Last Calib.: 2007.11.17
Time On Btm: 2007.11.17 @ 05:36:27
Time Off Btm: 2007.11.17 @ 09:12:26

TEST COMMENT: IF Weak Blow 2 1/2 "
ISI Bled Off No Blow back
FF Weak Blow 1/2 inch
FSI No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.49	100.56	Initial Hydro-static
3	19.81	99.26	Open To Flow (1)
33	83.42	102.60	Shut-In(1)
94	1096.36	103.74	End Shut-In(1)
94	91.90	103.44	Open To Flow (2)
154	115.67	105.69	Shut-In(2)
216	1012.38	106.49	End Shut-In(2)
216	1817.23	106.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 120 '	0.00
123.00	GOWCM 2%G 6%O 17%W 75%M	0.60
80.00	GWMCO 6%G 6%W 30%M 58%O	0.58

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29857 **DST#: 4**

Test Start: 2007.11.17 @ 03:22:17

Tool Information

Drill Pipe:	Length:	3450.00 ft	Diameter:	3.80 inches	Volume:	48.39 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	183.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	Weight to Pull Loose:		55000.00 lb
					Total Volume:	49.29 bbl	Tool Chased		ft
Drill Pipe Above KB:		32.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3625.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		67.00 ft							
Tool Length:		91.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Circulating sub	1.00			3602.00		
Change Over Sub	1.00			3603.00		
Shut In Tool	5.00			3608.00		
Hydraulic tool	5.00			3613.00		
Safety Joint	3.00			3616.00		
Packer	5.00			3621.00	24.00	Bottom Of Top Packer
Packer	4.00			3625.00		
Stubb	1.00			3626.00		
Recorder	0.00	8166	Inside	3626.00		
Recorder	0.00	8356	Outside	3626.00		
Perforations	29.00			3655.00		
Drill Pipe	32.00			3687.00		
Perforations	2.00			3689.00		
Bullnose	3.00			3692.00	67.00	Bottom Packers & Anchor
Total Tool Length:	**91.00**					

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WICHITA, KS

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29857 **DST#: 4**

Test Start: 2007.11.17 @ 03:22:17

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:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	inches				

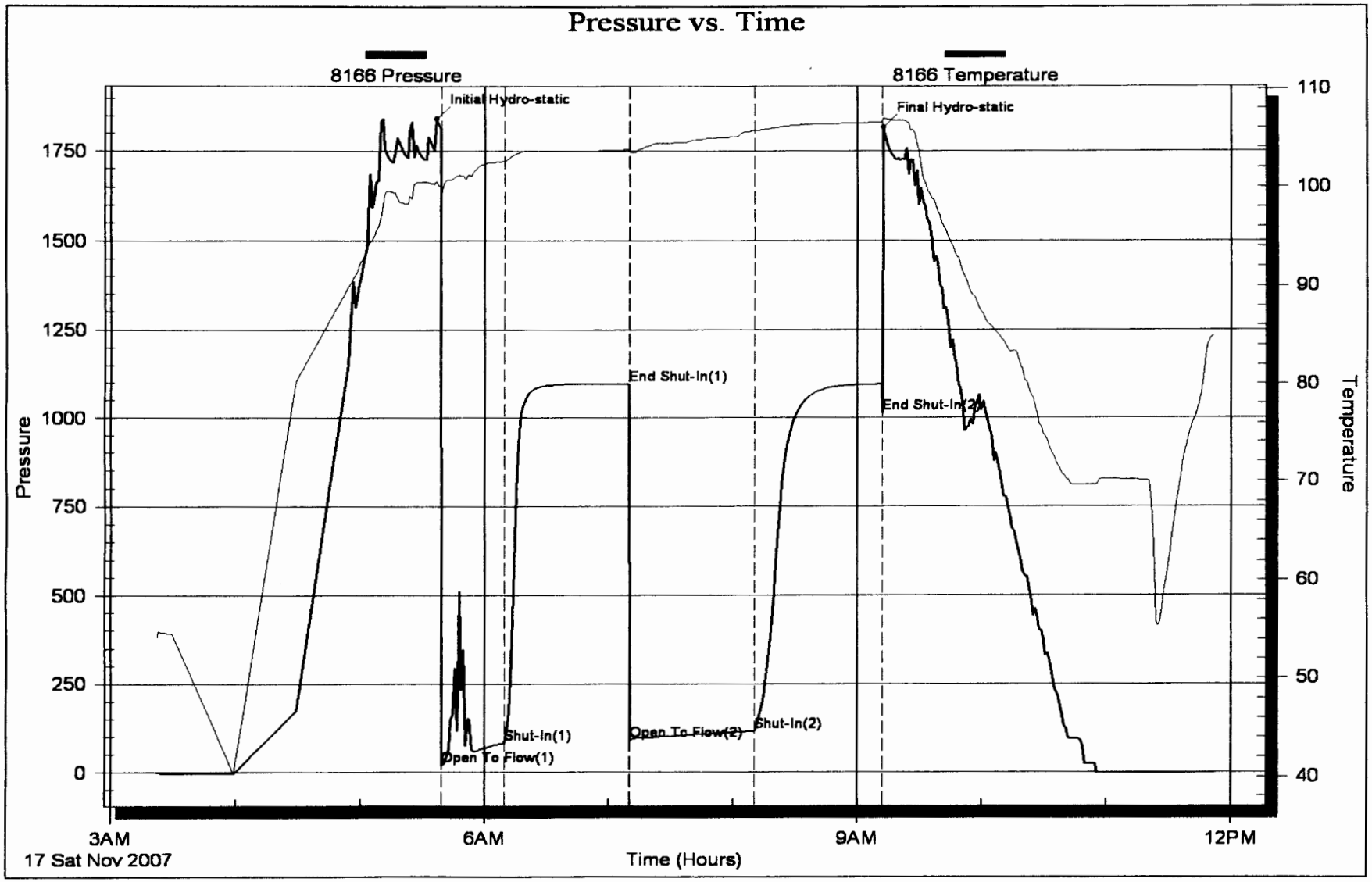
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 120 '	0.000
123.00	GOWCM 2%G 6%O 17%W 75%M	0.605
80.00	GWMCO 6%G 6%W 30%M 58%O	0.576

Total Length: 203.00 ft Total Volume: 1.181 bbl

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



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CONSERVATION DIVISION
WICHITA, KS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

1 22 13W Stafford KS

Drach B # 4-1

Start Date: 2007.11.17 @ 17:10:57
End Date: 2007.11.18 @ 00:13:57
Job Ticket #: 29858 DST #: 5

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

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WICHITA, KS

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29858 **DST#: 5**

Test Start: 2007.11.17 @ 17:10:57

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:59:47
Time Test Ended: 00:13:57

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 24

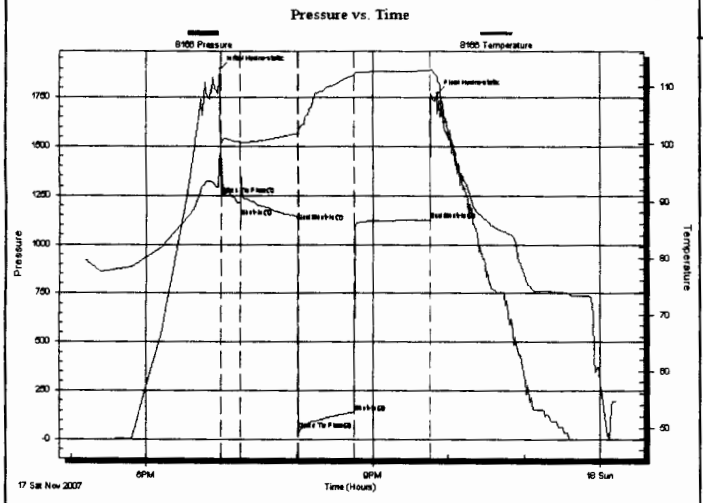
Interval: 3692.00 ft (KB) To 3697.00 ft (KB) (TVD)
Total Depth: 3697.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1887.00 ft (KB)
1878.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8166 **Inside**
Press@RunDepth: 140.52 psig @ 3693.00 ft (KB)
Start Date: 2007.11.17 End Date: 2007.11.18
Start Time: 17:11:02 End Time: 00:13:56

Capacity: 7000.00 psig
Last Calib.: 2007.11.18
Time On Btm: 2007.11.17 @ 18:59:27
Time Off Btm: 2007.11.17 @ 21:51:47

TEST COMMENT: IF Weak Blow 1/4 " Died In 5 minutes
ISI No Blow back
FF Fair Blow 5 inches
FSI Bled Off No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.56	98.39	Initial Hydro-static
1	1252.78	98.57	Open To Flow (1)
16	1143.12	100.31	Shut-In(1)
61	1116.18	101.87	End Shut-In(1)
62	47.06	103.54	Open To Flow (2)
106	140.52	112.17	Shut-In(2)
166	1125.04	112.89	End Shut-In(2)
173	1770.12	111.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 180 Feet	0.00
120.00	GSaltW 2%G 98%W .46@51 degrees	0.59
185.00	GMOCW 2%G 12%M 14%O 72%W	2.02

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29858 **DST#: 5**

Test Start: 2007.11.17 @ 17:10:57

Tool Information

Drill Pipe:	Length:	3513.00 ft	Diameter:	3.80 inches	Volume:	49.28 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	183.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	Weight to Pull Loose:		50000.00 lb
					Total Volume:	50.18 bbl	Tool Chased		ft
Drill Pipe Above KB:		28.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3692.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		5.00 ft							
Tool Length:		29.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Circulating sub	1.00			3669.00		
Change Over Sub	1.00			3670.00		
Shut In Tool	5.00			3675.00		
Hydraulic tool	5.00			3680.00		
Safety Joint	3.00			3683.00		
Packer	5.00			3688.00	24.00	Bottom Of Top Packer
Packer	4.00			3692.00		
Stubb	1.00			3693.00		
Recorder	0.00	8166	Inside	3693.00		
Recorder	0.00	8356	Outside	3693.00		
Perforations	1.00			3694.00		
Bullnose	3.00			3697.00	5.00	Bottom Packers & Anchor
Total Tool Length:	**29.00**					

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CONSERVATION DIVISION
WICHITA, KS

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Drach B # 4-1

1 22 13W Stafford KS

Job Ticket: 29858 **DST#: 5**

Test Start: 2007.11.17 @ 17:10:57

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:	21000 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7300.00 ppm				
Filter Cake:	inches				

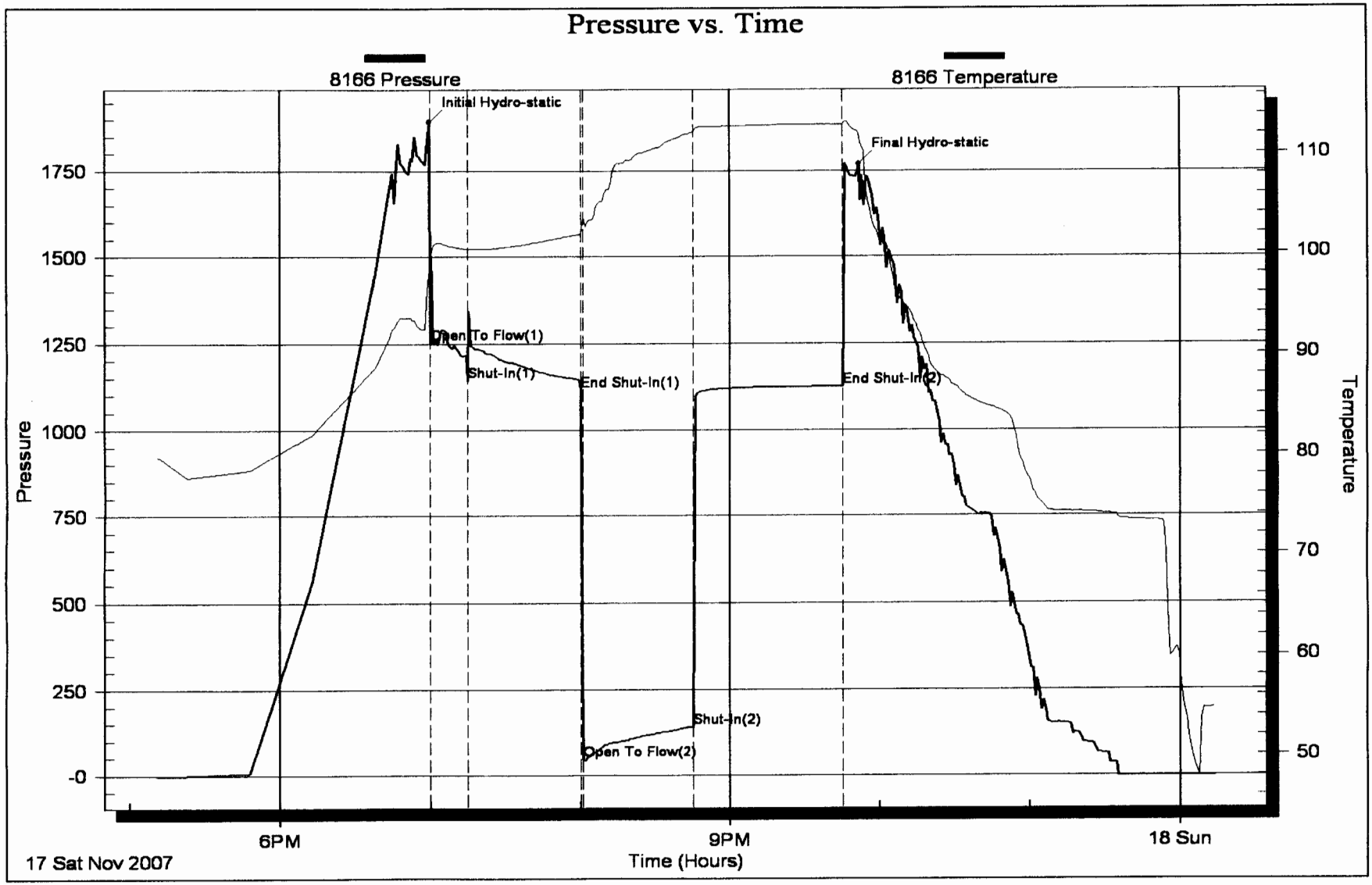
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 180 Feet	0.000
120.00	GSaltW 2%G 98%W .46@51 degrees	0.590
185.00	GMOCW 2%G 12%M 14%O 72%W	2.021

Total Length: 305.00 ft Total Volume: 2.611 bbl

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



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CONSERVATION DIVISION
WICHITA, KS

IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

2 22 13W Stafford KS

Junior Fischer #2-2

Start Date: 2007.10.23 @ 03:10:03
End Date: 2007.10.23 @ 12:54:03
Job Ticket #: 30569 DST #: 1

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KANSAS CORPORATION COMMISSION
FEB 18 2008
CONSERVATION DIVISION
WICHITA, KS

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

Murfin Drilling Co
Junior Fischer #2-2
2 22 13W Stafford KS
DST # 1
LKC "B-F"
2007.10.23

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30569 **DST#: 1**

Test Start: 2007.10.23 @ 03:10:03

GENERAL INFORMATION:

Formation: **LKC "B-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:13:33
Time Test Ended: 12:54:03

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

Interval: 3376.00 ft (KB) To 3437.00 ft (KB) (TVD)
Total Depth: 3437.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

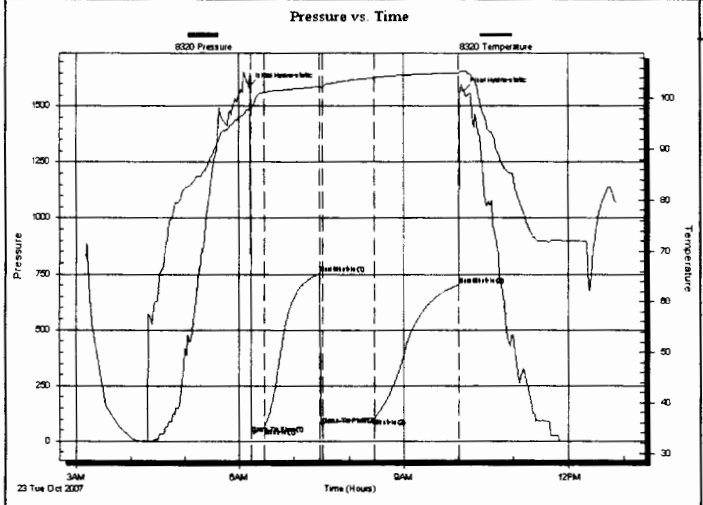
Reference Elevations: 1891.00 ft (KB)
1880.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8320 **Inside**

Press@RunDepth: 102.91 psig @ 3381.00 ft (KB)
Start Date: 2007.10.23 End Date: 2007.10.23
Start Time: 03:10:04 End Time: 12:54:03

Capacity: 7000.00 psig
Last Calib.: 2007.10.23
Time On Btm: 2007.10.23 @ 06:11:33
Time Off Btm: 2007.10.23 @ 10:06:03

TEST COMMENT: IFP BOB in 7 min
ISI Weak blow back built to 1/2 " died in 17 min
FFP BOB in 4.5 min
FSI Weak blow back built to 3.5 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1586.09	97.90	Initial Hydro-static
2	34.80	97.97	Open To Flow (1)
16	59.63	101.17	Shut-In(1)
77	752.81	102.34	End Shut-In(1)
80	73.13	102.25	Open To Flow (2)
137	102.91	104.11	Shut-In(2)
229	702.90	105.09	End Shut-In(2)
235	1567.31	105.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GHOCM 10%G 30%O 60%M	0.31
176.00	GMCO 10%G 45%O 45%M	1.37

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30569 **DST#: 1**

Test Start: 2007.10.23 @ 03:10:03

Tool Information

Drill Pipe:	Length:	3199.00 ft	Diameter:	3.82 inches	Volume:	45.35 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	185.00 ft	Diameter:	2.25 inches	Volume:	0.91 bbl	
					Total Volume:	46.26 bbl	

Drill Pipe Above KB:	31.00 ft
Depth to Top Packer:	3376.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	61.00 ft
Tool Length:	84.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		60000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	44000.00 lb
	Final	49000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3354.00		
Shut In Tool	5.00			3359.00		
Hydraulic tool	5.00			3364.00		
Safety Joint	2.00			3366.00		
Packer	5.00			3371.00	23.00	Bottom Of Top Packer
Packer	5.00			3376.00		
Stubb	1.00			3377.00		
Perforations	3.00			3380.00		
Change Over Sub	1.00			3381.00		
Recorder	0.00	8320	Inside	3381.00		
Blank Spacing	32.00			3413.00		
Change Over Sub	1.00			3414.00		
Perforations	20.00			3434.00		
Recorder	0.00	6246	Inside	3434.00		
Bullnose	3.00			3437.00	61.00	Bottom Packers & Anchor
Total Tool Length:	**84.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30569 **DST#: 1**

Test Start: 2007.10.23 @ 03:10:03

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:	7.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3300.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

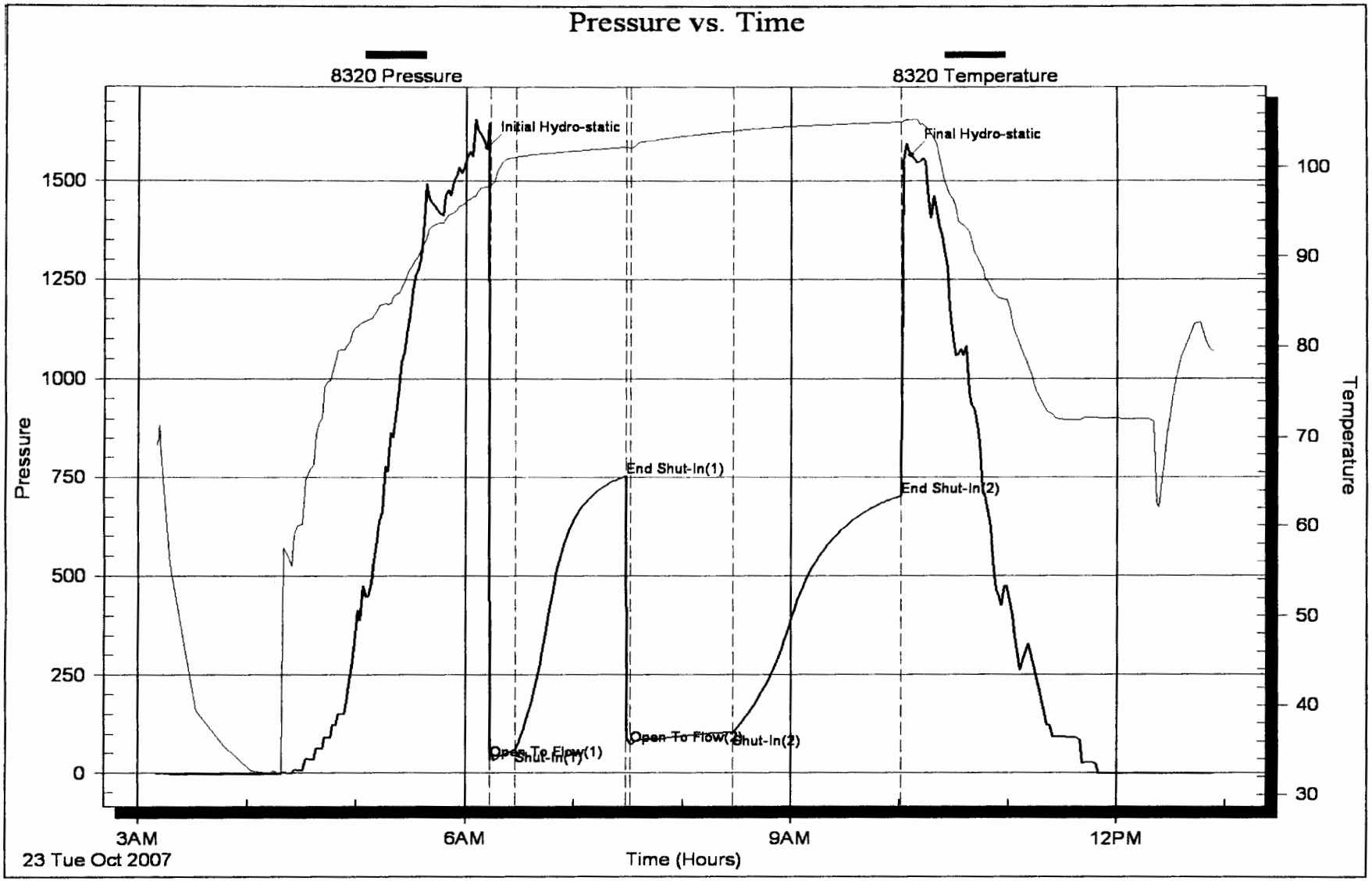
Length ft	Description	Volume bbl
64.00	GHOCM 10%G 30%O 60%M	0.315
176.00	GMCO 10%G 45%O 45%M	1.375

Total Length: 240.00 ft Total Volume: 1.690 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8320 Pressure
8320 Temperature
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
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
30
3AM
6AM
9AM
12PM
23 Tue Oct 2007
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

2 22 13W Stafford KS

Junior Fischer #2-2

Start Date: 2007.10.24 @ 02:50:24

End Date: 2007.10.24 @ 11:32:24

Job Ticket #: 30570 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30570 **DST#: 2**

Test Start: 2007.10.24 @ 02:50:24

GENERAL INFORMATION:

Formation: **LKC "H-L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:43:24
Time Test Ended: 11:32:24

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

Interval: 3478.00 ft (KB) To 3590.00 ft (KB) (TVD)
Total Depth: 3590.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

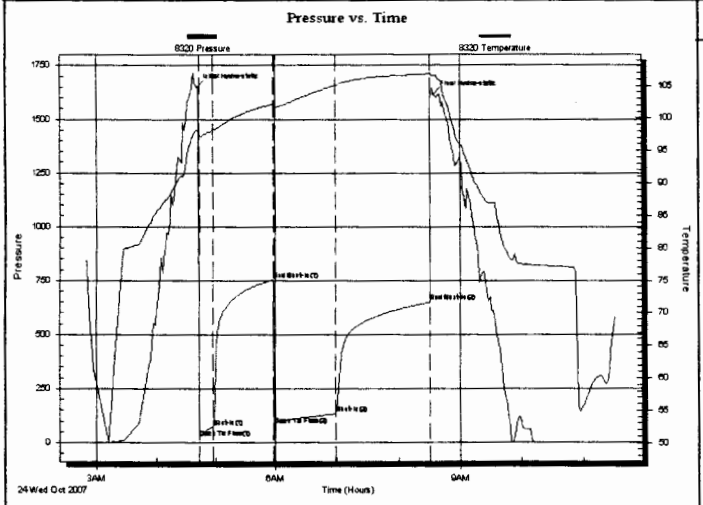
Reference Elevations: 1891.00 ft (KB)
1880.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8320 **Inside**

Press@RunDepth: 133.64 psig @ 3482.00 ft (KB)
Start Date: 2007.10.24 End Date: 2007.10.24
Start Time: 02:50:25 End Time: 11:32:24

Capacity: 7000.00 psig
Last Calib.: 2007.10.24
Time On Btm: 2007.10.24 @ 04:41:54
Time Off Btm: 2007.10.24 @ 08:33:54

TEST COMMENT: IFP Weak blow built to 5.5 "
ISI No blow back
FFP BOB in 53 min
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.60	98.21	Initial Hydro-static
2	23.92	97.59	Open To Flow (1)
16	73.08	98.10	Shut-In(1)
77	752.68	102.15	End Shut-In(1)
77	82.79	101.86	Open To Flow (2)
137	133.64	105.04	Shut-In(2)
228	648.95	106.81	End Shut-In(2)
232	1615.84	106.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW w/scum of Oil 90%W 10%M	0.59
60.00	WM w / scum of Oil 30%W 70%M	0.30
80.00	SOCM 5%O 95%M	1.09

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30570 **DST#: 2**

Test Start: 2007.10.24 @ 02:50:24

Tool Information

Drill Pipe:	Length:	3293.00 ft	Diameter:	3.82 inches	Volume:	46.68 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	185.00 ft	Diameter:	2.25 inches	Volume:	0.91 bbl	
					Total Volume:	47.59 bbl	

Drill Pipe Above KB:	23.00 ft
Depth to Top Packer:	3478.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	112.00 ft
Tool Length:	135.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	65000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	45000.00 lb
Final	47000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3456.00		
Shut In Tool	5.00			3461.00		
Hydraulic tool	5.00			3466.00		
Safety Joint	2.00			3468.00		
Packer	5.00			3473.00	23.00	Bottom Of Top Packer
Packer	5.00			3478.00		
Stubb	1.00			3479.00		
Perforations	2.00			3481.00		
Change Over Sub	1.00			3482.00		
Recorder	0.00	8320	Inside	3482.00		
Blank Spacing	94.00			3576.00		
Change Over Sub	1.00			3577.00		
Perforations	10.00			3587.00		
Recorder	0.00	6246	Inside	3587.00		
Bullnose	3.00			3590.00	112.00	Bottom Packers & Anchor
Total Tool Length:	**135.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30570 **DST#: 2**

Test Start: 2007.10.24 @ 02:50:24

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:	47000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5100.00 ppm				
Filter Cake:	inches				

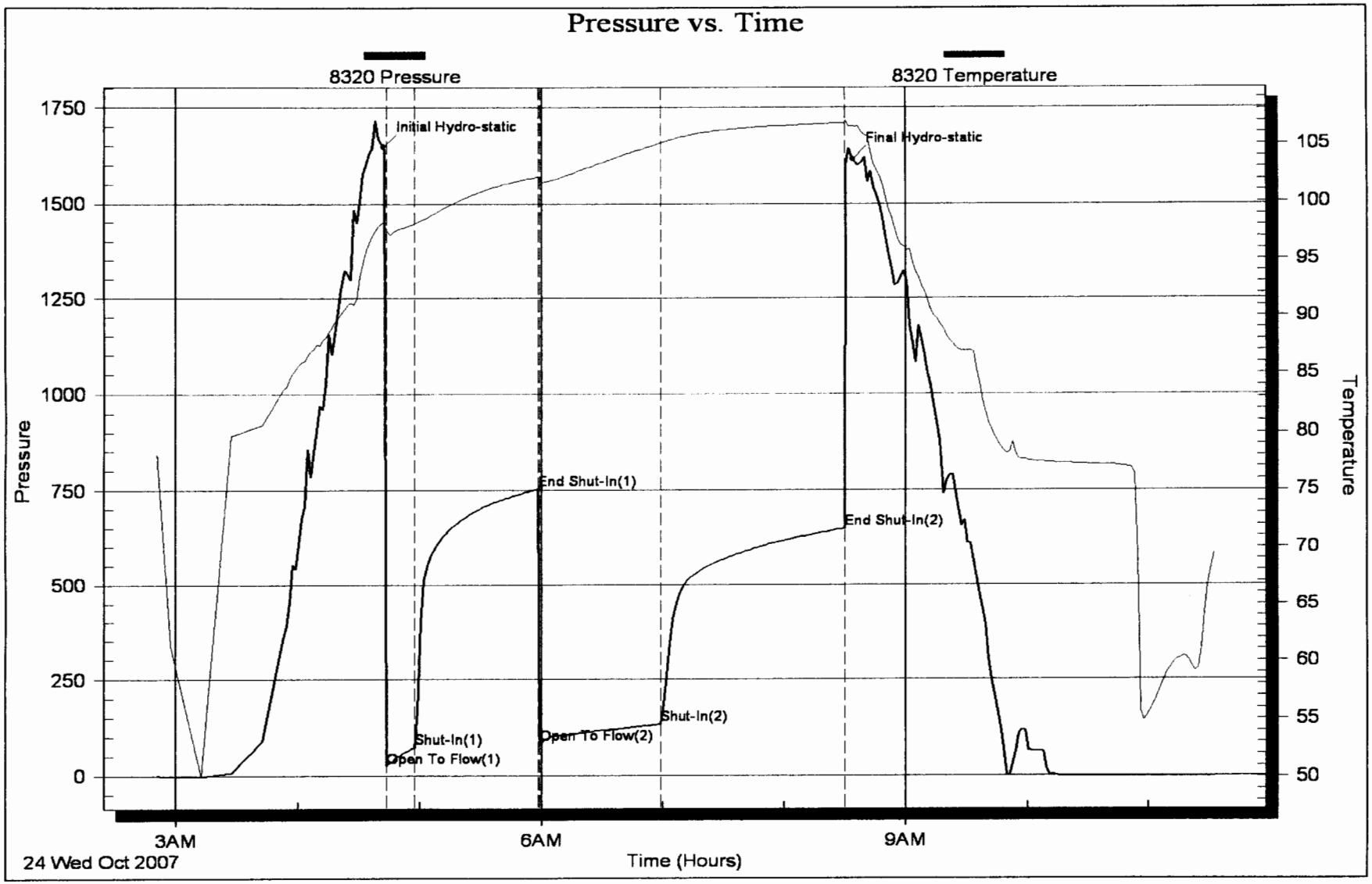
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW w /scum of Oil 90%W 10%M	0.590
60.00	WM w / scum of Oil 30%W 70%M	0.295
80.00	SOCM 5%O 95%M	1.088

Total Length: 260.00 ft Total Volume: 1.973 bbl

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


Pressure vs. Time
8320 Pressure
8320 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
750
500
250
0
105
100
95
90
85
80
75
70
65
60
55
50
3AM
6AM
9AM
24 Wed Oct 2007
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

2 22 13W Stafford KS

Junior Fischer #2-2

Start Date: 2007.10.24 @ 21:17:18

End Date: 2007.10.25 @ 06:45:48

Job Ticket #: 30571 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Junior Fischer #2-2 2 22 13W Stafford KS DST # 3 Arbuckle 2007.10.24

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30571 **DST#: 3**

Test Start: 2007.10.24 @ 21:17:18

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:24:48
Time Test Ended: 06:45:48

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

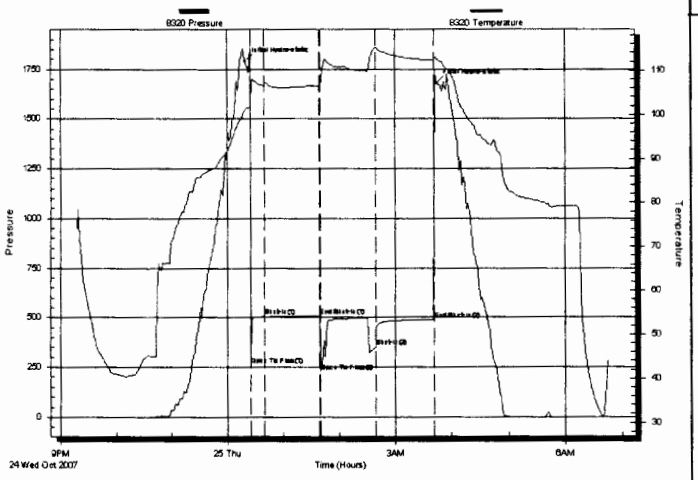
Interval: 3650.00 ft (KB) To 3715.00 ft (KB) (TVD)
Total Depth: 3437.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1891.00 ft (KB)
1880.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8320 **Inside**
Press@RunDepth: 352.45 psig @ 3654.00 ft (KB)
Start Date: 2007.10.24 End Date: 2007.10.25
Start Time: 21:17:19 End Time: 06:45:48

Capacity: 7000.00 psig
Last Calib.: 2007.10.25
Time On Btm: 2007.10.25 @ 00:19:18
Time Off Btm: 2007.10.25 @ 03:44:48

TEST COMMENT: IFP Blow built to 10 "
ISI No blow back
FFP BOB in 2 min
FSI Weak 1/4 " blow back throughout



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.59	101.01	Initial Hydro-static
6	260.07	102.14	Open To Flow (1)
20	504.34	106.58	Shut-In(1)
80	507.03	106.58	End Shut-In(1)
81	228.46	106.49	Open To Flow (2)
140	352.45	115.16	Shut-In(2)
202	489.08	112.25	End Shut-In(2)
206	1678.26	112.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	GMCWO 20%G 40%O 20%W 20%M	1.76
460.00	GMCO 20%G 40%O 40%M	6.52
0.00	375 ' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30571 **DST#: 3**

Test Start: 2007.10.24 @ 21:17:18

Tool Information

Drill Pipe:	Length:	3453.00 ft	Diameter:	3.82	inches	Volume:	48.95	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	185.00 ft	Diameter:	2.25	inches	Volume:	0.91	bbl	
						Total Volume:	49.86	bbl	

Drill Pipe Above KB:	11.00 ft
Depth to Top Packer:	3650.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	65.00 ft
Tool Length:	88.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		55000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	45000.00 lb
	Final	48000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3628.00		
Shut In Tool	5.00			3633.00		
Hydraulic tool	5.00			3638.00		
Safety Joint	2.00			3640.00		
Packer	5.00			3645.00	23.00	Bottom Of Top Packer
Packer	5.00			3650.00		
Stubb	1.00			3651.00		
Perforations	2.00			3653.00		
Change Over Sub	1.00			3654.00		
Recorder	0.00	8320	Inside	3654.00		
Blank Spacing	32.00			3686.00		
Change Over Sub	1.00			3687.00		
Perforations	25.00			3712.00		
Recorder	0.00	13401	Inside	3712.00		
Bullnose	3.00			3715.00	65.00	Bottom Packers & Anchor
Total Tool Length:	**88.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30571 **DST#: 3**

Test Start: 2007.10.24 @ 21:17:18

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:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5300.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

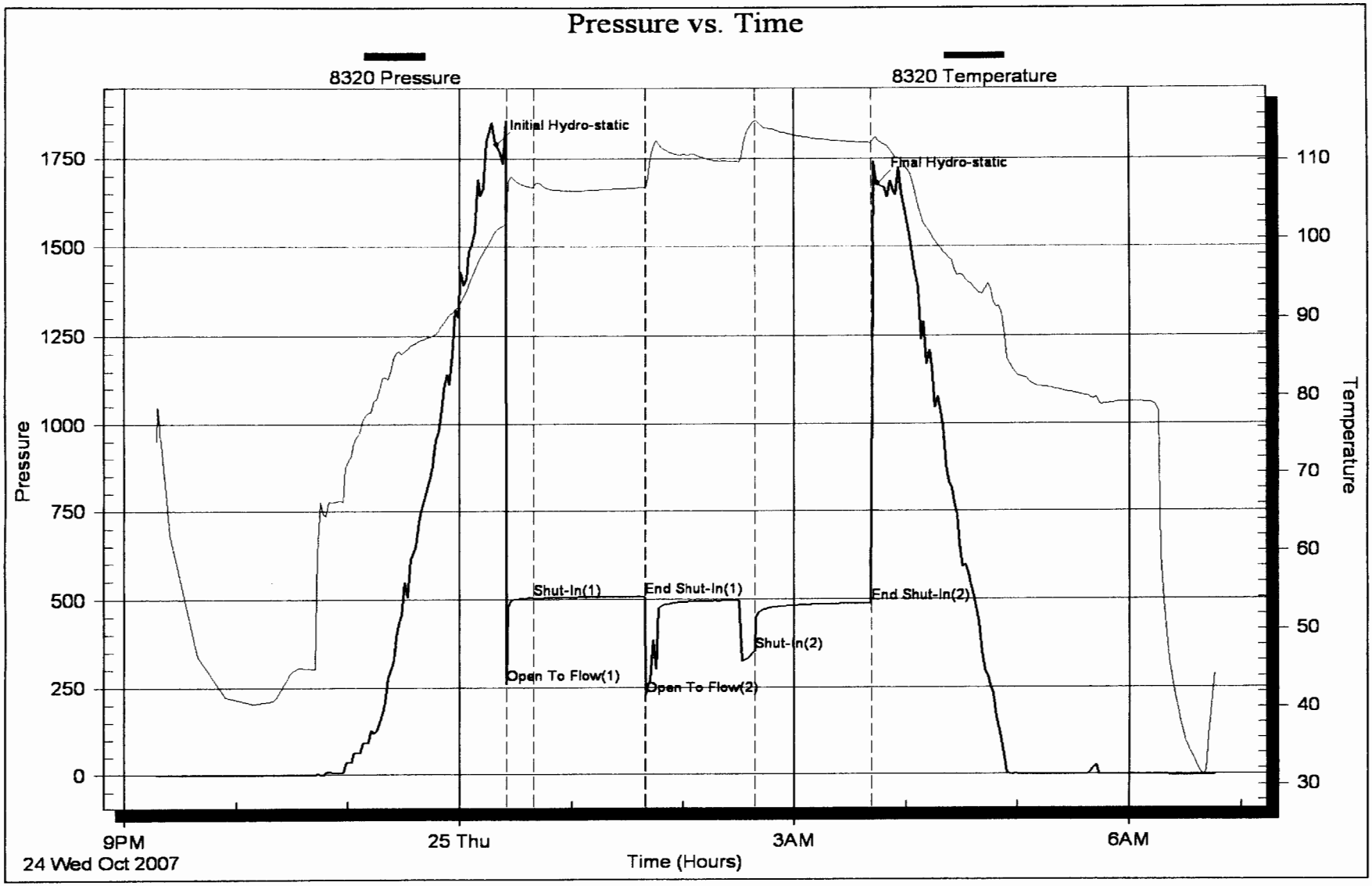
Length ft	Description	Volume bbl
245.00	GMCWO 20%G 40%O 20%W 20%M	1.760
460.00	GMCO 20%G 40%O 40%M	6.521
0.00	375 ' GIP	0.000

Total Length: 705.00 ft Total Volume: 8.281 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8320 Pressure
8320 Temperature
Initial Hydro-static
Final Hydro-static
Shut-In(1)
End Shut-In(1)
End Shut-In(2)
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
50
40
30
9PM
24 Wed Oct 2007
25 Thu
3AM
6AM
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

2 22 13W Stafford KS

Junior Fischer #2-2

Start Date: 2007.10.25 @ 16:45:19

End Date: 2007.10.26 @ 01:54:49

Job Ticket #: 30572 DST #: 4

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

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30572 **DST#: 4**

Test Start: 2007.10.25 @ 16:45:19

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:11:49
Time Test Ended: 01:54:49

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

Interval: 3715.00 ft (KB) To 3725.00 ft (KB) (TVD)
Total Depth: 3725.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

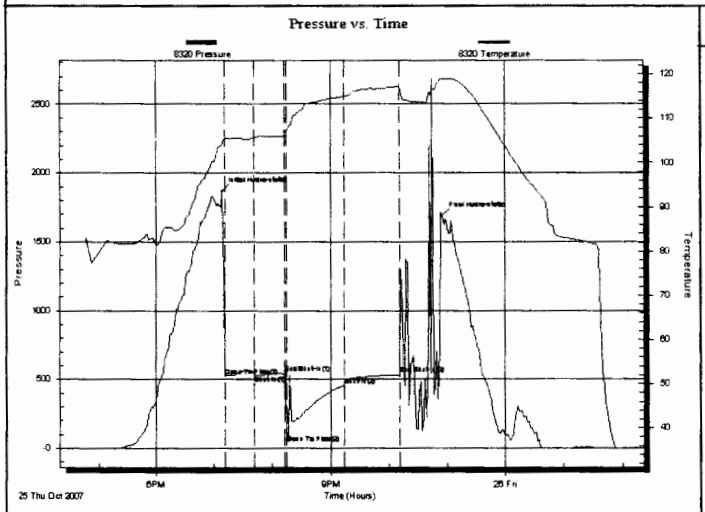
Reference Elevations: 1891.00 ft (KB)
1880.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8320 **Inside**

Press@RunDepth: 453.30 psig @ 3718.00 ft (KB)
Start Date: 2007.10.25 End Date: 2007.10.26
Start Time: 16:45:20 End Time: 01:54:49

Capacity: 7000.00 psig
Last Calib.: 2007.10.26
Time On Btm: 2007.10.25 @ 19:08:49
Time Off Btm: 2007.10.25 @ 22:54:49

TEST COMMENT: IFP Weak 3/4 " blow died flushed tool Weak 1/4 " blow died flushed tool w eak surface blow died in 5 min
ISI No blow back
FFP Weak blow built to 1 " in 4 min BOB in 8 min
FSI BOB in 7 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.72	104.00	Initial Hydro-static
3	524.88	105.57	Open To Flow (1)
33	528.63	105.70	Shut-In(1)
64	544.32	106.02	End Shut-In(1)
66	33.02	106.43	Open To Flow (2)
125	453.30	114.98	Shut-In(2)
182	534.05	117.15	End Shut-In(2)
226	1689.36	118.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
480.00	Water	5.09
60.00	MCOW 10%O,70%W,20%M	0.85
120.00	GHOCWM 20%G 20%O 20%W 40%M	1.70
60.00	GMCO 50%G 30%O 20%M	0.85
280.00	GCO 50%G 50%O	3.97
0.00	1500 ' GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30572 **DST#: 4**

Test Start: 2007.10.25 @ 16:45:19

Tool Information

Drill Pipe:	Length:	3525.00 ft	Diameter:	3.82 inches	Volume:	49.97 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	185.00 ft	Diameter:	2.25 inches	Volume:	0.91 bbl	
					Total Volume:	50.88 bbl	

Drill Pipe Above KB:	18.00 ft
Depth to Top Packer:	3715.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	10.00 ft
Tool Length:	33.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	100000.0 lb
Tool Chased	2.00 ft
String Weight: Initial	46000.00 lb
Final	49000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3693.00		
Shut In Tool	5.00			3698.00		
Hydraulic tool	5.00			3703.00		
Safety Joint	2.00			3705.00		
Packer	5.00			3710.00	23.00	Bottom Of Top Packer
Packer	5.00			3715.00		
Stubb	1.00			3716.00		
Perforations	2.00			3718.00		
Recorder	0.00	8320	Inside	3718.00		
Perforations	4.00			3722.00		
Recorder	0.00	13401	Inside	3722.00		
Bullnose	3.00			3725.00	10.00	Bottom Packers & Anchor
Total Tool Length:	**33.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30572 **DST#: 4**

Test Start: 2007.10.25 @ 16:45:19

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	35 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	30000 ppm
Viscosity:	78.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9800.00 ppm				
Filter Cake:	inches				

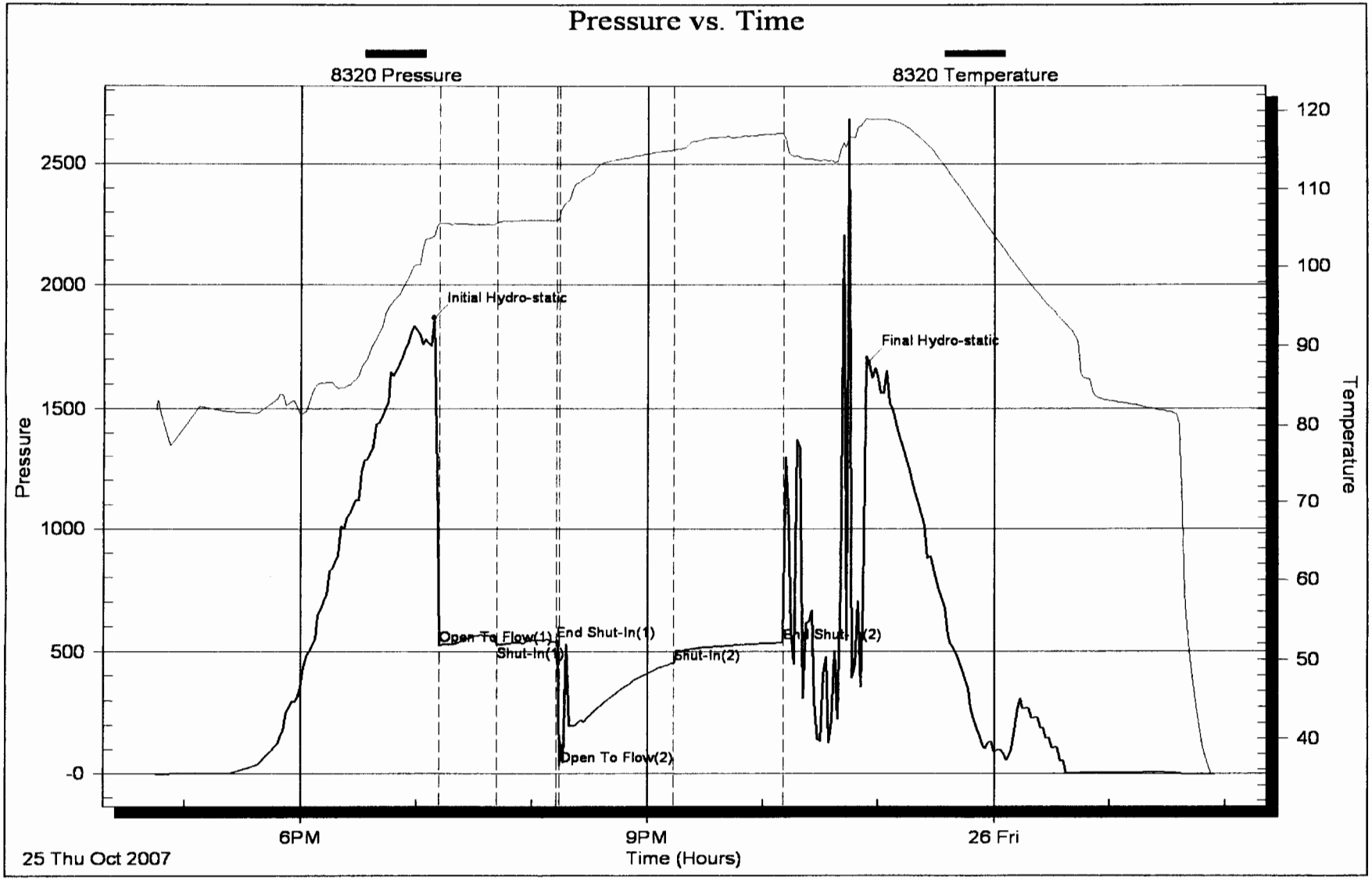
Recovery Information

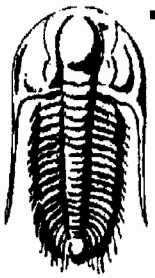
Recovery Table

Length ft	Description	Volume bbl
480.00	Water	5.092
60.00	MCOW 10%O,70%W,20%M	0.851
120.00	GHOCWM 20%G 20%O 20%W 40%M	1.701
60.00	GMCO 50%G 30%O 20%M	0.851
280.00	GCO 50%G 50%O	3.969
0.00	1500 ' GIP	0.000

Total Length: 1000.00 ft Total Volume: 12.464 bbl

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


Pressure vs. Time
8320 Pressure
8320 Temperature
Pressure
Temperature
2500
2000
1500
1000
500
-0
120
110
100
90
80
70
60
50
40
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
6PM
9PM
26 Fri
25 Thu Oct 2007
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

2 22 13W Stafford KS

Junior Fischer #2-2

Start Date: 2007.10.26 @ 09:27:33

End Date: 2007.10.26 @ 18:59:33

Job Ticket #: 30573 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30573 **DST#: 5**

Test Start: 2007.10.26 @ 09:27:33

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:30:03
Time Test Ended: 18:59:33

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

Interval: 3725.00 ft (KB) To 3735.00 ft (KB) (TVD)
Total Depth: 3735.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

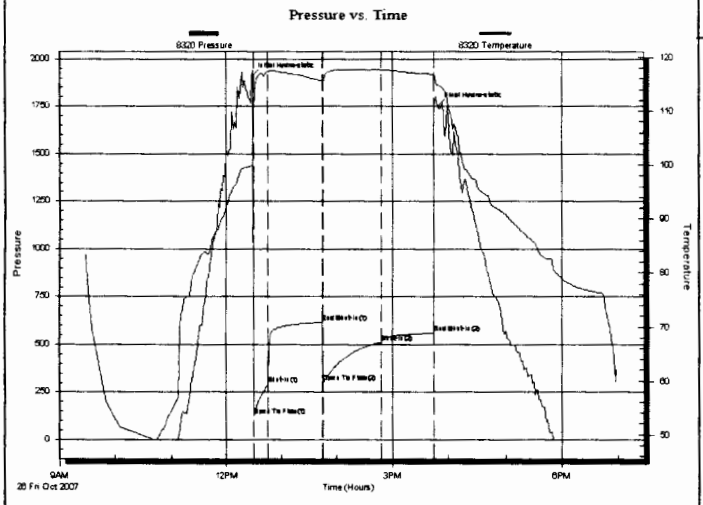
Reference Elevations: 1891.00 ft (KB)
1880.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8320 **Inside**

Press@RunDepth: 511.42 psig @ 3726.00 ft (KB)
Start Date: 2007.10.26 End Date: 2007.10.26
Start Time: 09:27:34 End Time: 18:59:33

Capacity: 7000.00 psig
Last Calib.: 2007.10.26
Time On Btm: 2007.10.26 @ 12:28:03
Time Off Btm: 2007.10.26 @ 15:49:03

TEST COMMENT: IFP BOB in 1.5 min
ISI Weak surface blow back built to 4.5 " died in 50 min
FFP BOB in 3 min
FSI Weak blow back built to 5 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.56	99.89	Initial Hydro-static
2	124.52	110.68	Open To Flow (1)
18	292.50	117.28	Shut-In(1)
77	616.29	115.69	End Shut-In(1)
78	303.89	115.44	Open To Flow (2)
140	511.42	117.61	Shut-In(2)
197	561.09	116.83	End Shut-In(2)
201	1750.75	114.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
460.00	Ww / scum of O	3.70
360.00	SOW 10%O 90%W	5.10
180.00	GMCOW 50%G 20%O 30%W 10%M	2.55
40.00	GCO 20%G 80%O	0.57
0.00	960 ' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30573 **DST#: 5**

Test Start: 2007.10.26 @ 09:27:33

Tool Information

Drill Pipe:	Length:	3419.00 ft	Diameter:	3.82 inches	Volume:	48.47 bbl	Tool Weight:	2500.00 lb	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb	
Drill Collar:	Length:	305.00 ft	Diameter:	2.25 inches	Volume:	1.50 bbl	Weight to Pull Loose:	70000.00 lb	
					Total Volume:	49.97 bbl	Tool Chased	1.00 ft	
Drill Pipe Above KB:		22.00 ft					String Weight: Initial	52000.00 lb	
Depth to Top Packer:		3725.00 ft					Final	60000.00 lb	
Depth to Bottom Packer:		ft							
Interval betw een Packers:		10.00 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	
Change Over Sub	1.00			3703.00		
Shut In Tool	5.00			3708.00		
Hydraulic tool	5.00			3713.00		
Safety Joint	2.00			3715.00		
Packer	5.00			3720.00	23.00	Bottom Of Top Packer
Packer	5.00			3725.00		
Stubb	1.00			3726.00		
Recorder	0.00	8320	Inside	3726.00		
Perforations	6.00			3732.00		
Recorder	0.00	6246	Inside	3732.00		
Bullnose	3.00			3735.00	10.00	Bottom Packers & Anchor
Total Tool Length:	**33.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Junior Fischer #2-2

2 22 13W Stafford KS

Job Ticket: 30573 **DST#: 5**

Test Start: 2007.10.26 @ 09:27:33

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	35 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	28000 ppm
Viscosity:	67.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	14.57 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	16000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

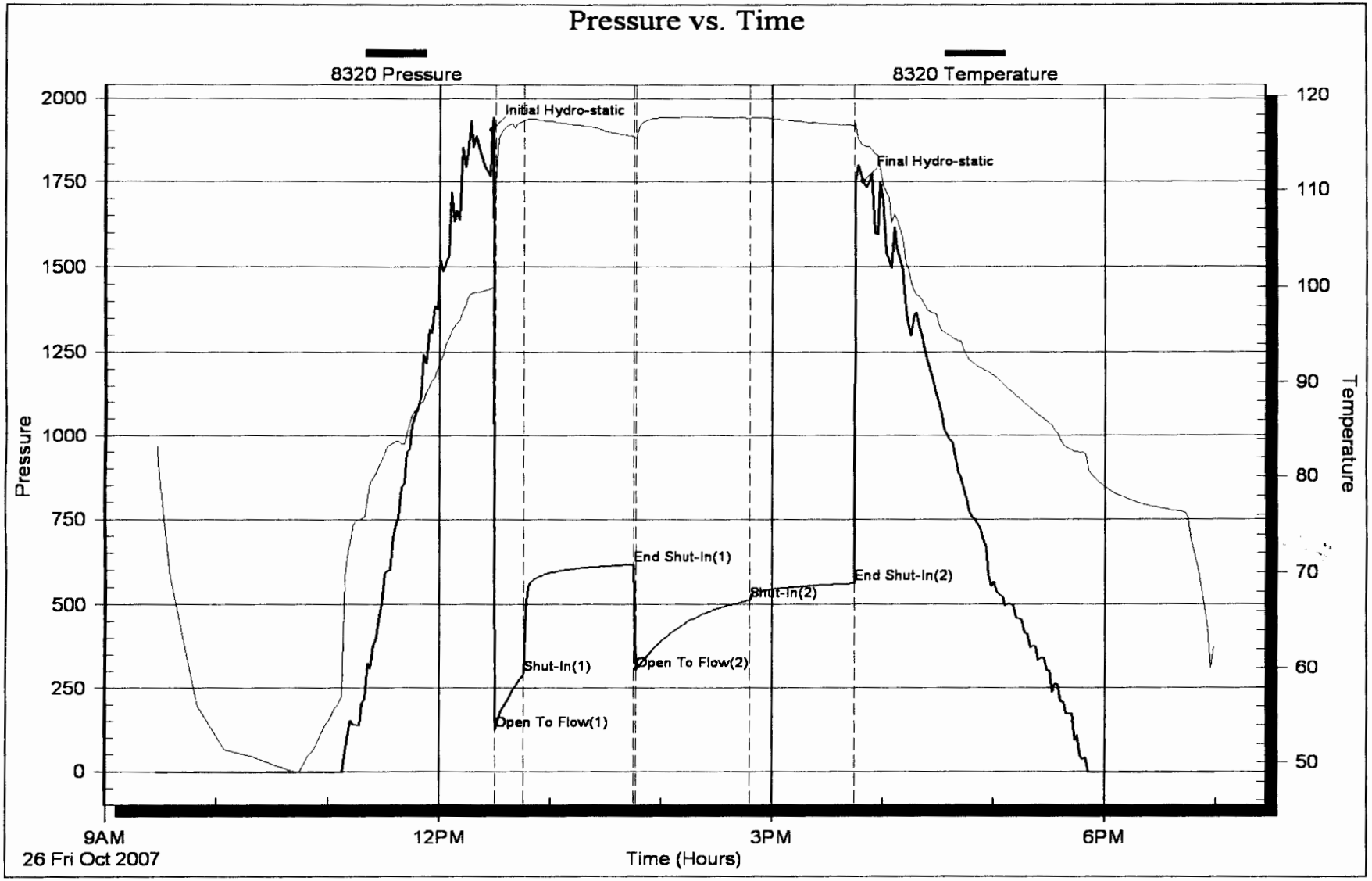
Length ft	Description	Volume bbl
460.00	Ww / scum of O	3.697
360.00	SOW 10%O 90%W	5.103
180.00	GMCOW 50%G 20%O 30%W 10%M	2.552
40.00	GCO 20%G 80%O	0.567
0.00	960 ' GIP	0.000

Total Length: 1040.00 ft Total Volume: 11.919 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8320 Pressure
8320 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
120
110
100
90
80
70
60
50
9AM
12PM
3PM
6PM
26 Fri Oct 2007
Time (Hours)

