

**TRILOBITE
TESTING, INC.**

KCC
OCT 31 2006
CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co INC**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

11 22 13 Stafford KS

Hull-Witt Unit # 1-11

Start Date: 2006.10.20 @ 18:14:26

End Date: 2006.10.21 @ 00:37:26

Job Ticket #: 26111 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2006.10.24 @ 14:18:11 Page 1

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KCC WICHITA

Murfin Drilling Co INC

Hull-Witt Unit # 1-11

11 22 13 Stafford KS

DST # 1

L.K.C.-A to F

2006.10.20



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co INC

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hull-Witt Unit # 1-11

11 22 13 Stafford KS

Job Ticket: 26111

DST#: 1

Test Start: 2006.10.20 @ 18:14:26

GENERAL INFORMATION:

Formation: L.Kc.-A to F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:10:56

Time Test Ended: 00:37:26

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3352.00 ft (KB) To 3442.00 ft (KB) (TVD)

Total Depth: 3442.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1888.00 ft (KB)

1883.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 34.13 psig @ 3356.00 ft (KB)

Start Date: 2006.10.20

End Date:

2006.10.21

Start Time: 18:14:31

End Time:

00:37:25

Capacity: 7000.00 psig

Last Calib.: 2006.10.21

Time On Btm: 2006.10.20 @ 20:10:26

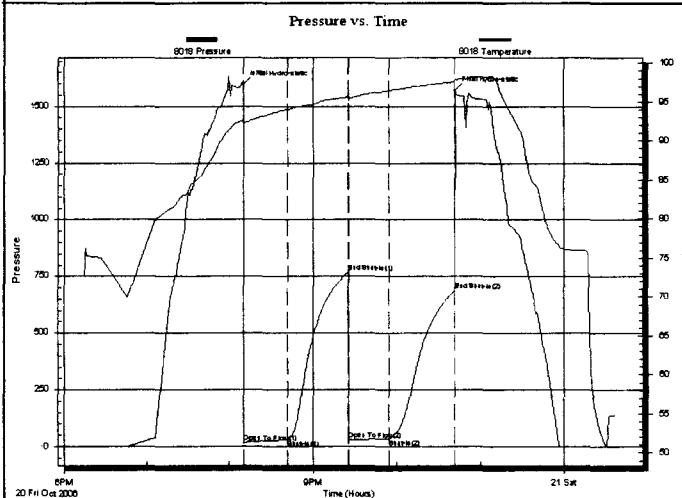
Time Off Btm: 2006.10.20 @ 22:42:26

TEST COMMENT: IF Weak Dead in 22 min.

ISI Dead

FF Dead

FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.05	92.64	Initial Hydro-static
1	16.12	92.17	Open To Flow (1)
31	29.00	94.01	Shut-In (1)
75	769.40	95.57	End Shut-In (1)
75	30.42	95.15	Open To Flow (2)
105	34.13	96.45	Shut-In (2)
152	689.58	97.56	End Shut-In (2)
152	1570.14	97.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	D.Mud	0.29

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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OCT 31 2006
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co INC

Hull-Witt Unit # 1-11

250 N Water Ste 300
Wichita KS 67202

11 22 13 Stafford KS

Job Ticket: 26111

DST#: 1

ATTN: David Doyel

Test Start: 2006.10.20 @ 18:14:26

Tool Information

Drill Pipe:	Length: 3332.00 ft	Diameter: 3.80 inches	Volume: 46.74 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	40000.00 lb
		Total Volume: 46.89 bbl		Tool Chased	5.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	28000.00 lb
Depth to Top Packer:	3352.00 ft			Final	28000.00 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:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3330.00	
Shut In Tool	5.00			3335.00	
Hydraulic tool	5.00			3340.00	
Safety Joint	3.00			3343.00	
Packer	4.00			3347.00	23.00 Bottom Of Top Packer
Packer	5.00			3352.00	
Stubb	1.00			3353.00	
Perforations	2.00			3355.00	
Change Over Sub	1.00			3356.00	
Recorder	0.00	8018	Inside	3356.00	
Blank Spacing	62.00			3418.00	
Change Over Sub	1.00			3419.00	
Recorder	0.00	11084	Outside	3419.00	
Perforations	20.00			3439.00	
Bullnose	3.00			3442.00	90.00 Bottom Packers & Anchor

Total Tool Length: 113.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co INC

Hull-Witt Unit # 1-11

250 N Water Ste 300
Wichita KS 67202

11 22 13 Stafford KS

ATTN: David Doyel

Job Ticket: 26111

DST#: 1

Test Start: 2006.10.20 @ 18:14:26

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: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	D.Mud	0.288

Total Length: 40.00 ft

Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

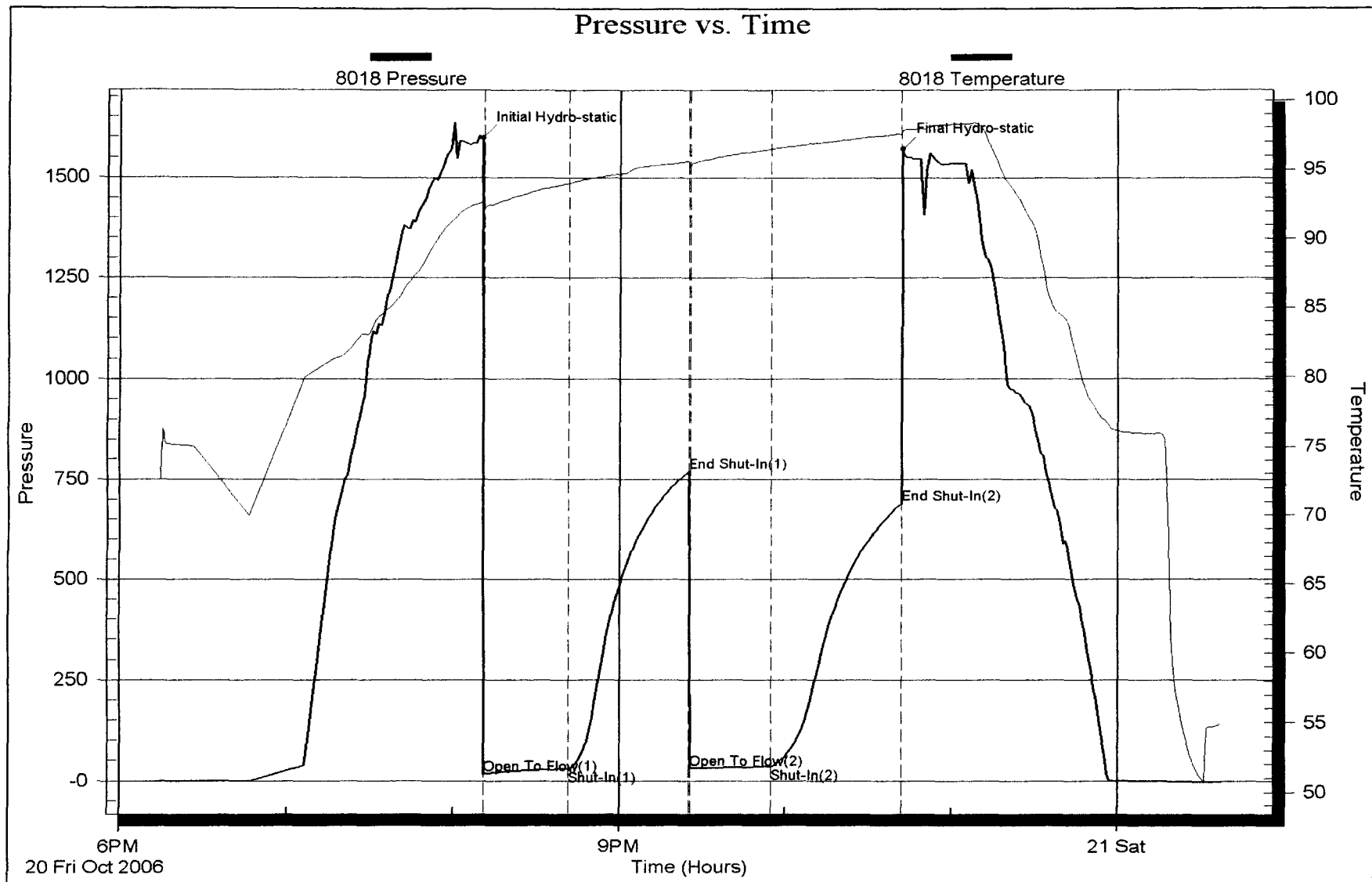
Recovery Comments:

Serial #: 8018

Inside Murfin Drilling Co INC

11 22 13 Stafford KS

DST Test Number: 1



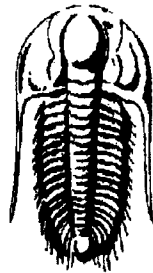
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Ref. No: 26111

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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

ATTN: David Doyel

11 22 13 Stafford KS

Hull-Witt Unit # 1-11

Start Date: 2006.10.21 @ 10:55:06

End Date: 2006.10.21 @ 17:43:36

Job Ticket #: 26112 DST #: 2

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

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Murfin Drilling Co INC

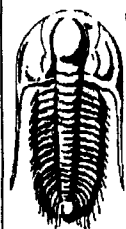
Hull-Witt Unit # 1-11

11 22 13 Stafford KS

DST # 2

L.Kc.-H to K

2006.10.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co INC

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hull-Witt Unit # 1-11

11 22 13 Stafford KS

Job Ticket: 26112

DST#: 2

Test Start: 2006.10.21 @ 10:55:06

GENERAL INFORMATION:

Formation: L.Kc.-H to K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:15:36

Time Test Ended: 17:43:36

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3477.00 ft (KB) To 3565.00 ft (KB) (TVD)

Total Depth: 3565.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1888.00 ft (KB)

1883.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 32.93 psig @ 3481.00 ft (KB)

Start Date: 2006.10.21

End Date:

2006.10.21

Start Time: 10:55:11

End Time:

17:43:35

Capacity: 7000.00 psig

Last Calib.: 2006.10.21

Time On Btm: 2006.10.21 @ 13:15:06

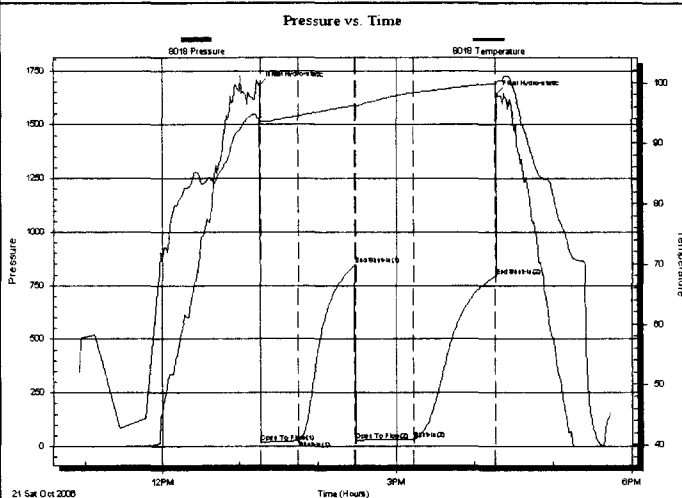
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TEST COMMENT: IF Weak Dead in 25 min.

ISI Dead

FF Dead

FSI Dead



PRESSURE SUMMARY

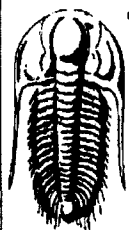
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.05	94.02	Initial Hydro-static
1	16.51	93.32	Open To Flow (1)
30	25.68	94.44	Shut-In (1)
73	845.43	96.22	End Shut-In (1)
74	27.69	95.73	Open To Flow (2)
119	32.93	98.28	Shut-In (2)
181	793.40	99.83	End Shut-In (2)
182	1640.22	100.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	D.Mud	0.22

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co INC

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hull-Witt Unit # 1-11

11 22 13 Stafford KS

Job Ticket: 26112

DST#: 2

Test Start: 2006.10.21 @ 10:55:06

Tool Information

Drill Pipe:	Length: 3455.00 ft	Diameter: 3.80 inches	Volume: 48.46 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume: 48.61 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3477.00 ft			Final 28000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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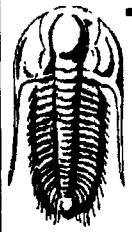
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3455.00	
Shut In Tool	5.00			3460.00	
Hydraulic tool	5.00			3465.00	
Safety Joint	3.00			3468.00	
Packer	4.00			3472.00	23.00 Bottom Of Top Packer
Packer	5.00			3477.00	
Stubb	1.00			3478.00	
Perforations	2.00			3480.00	
Change Over Sub	1.00			3481.00	
Recorder	0.00	8018	Inside	3481.00	
Blank Spacing	60.00			3541.00	
Change Over Sub	1.00			3542.00	
Recorder	0.00	11084	Outside	3542.00	
Perforations	20.00			3562.00	
Bullnose	3.00			3565.00	88.00 Bottom Packers & Anchor

Total Tool Length: 111.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co INC

Hull-Witt Unit # 1-11

250 N Water Ste 300
Wichita KS 67202

11 22 13 Stafford KS

Job Ticket: 26112

DST#: 2

ATTN: David Doyel

Test Start: 2006.10.21 @ 10:55:06

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	D.Mud	0.218

Total Length: 35.00 ft Total Volume: 0.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

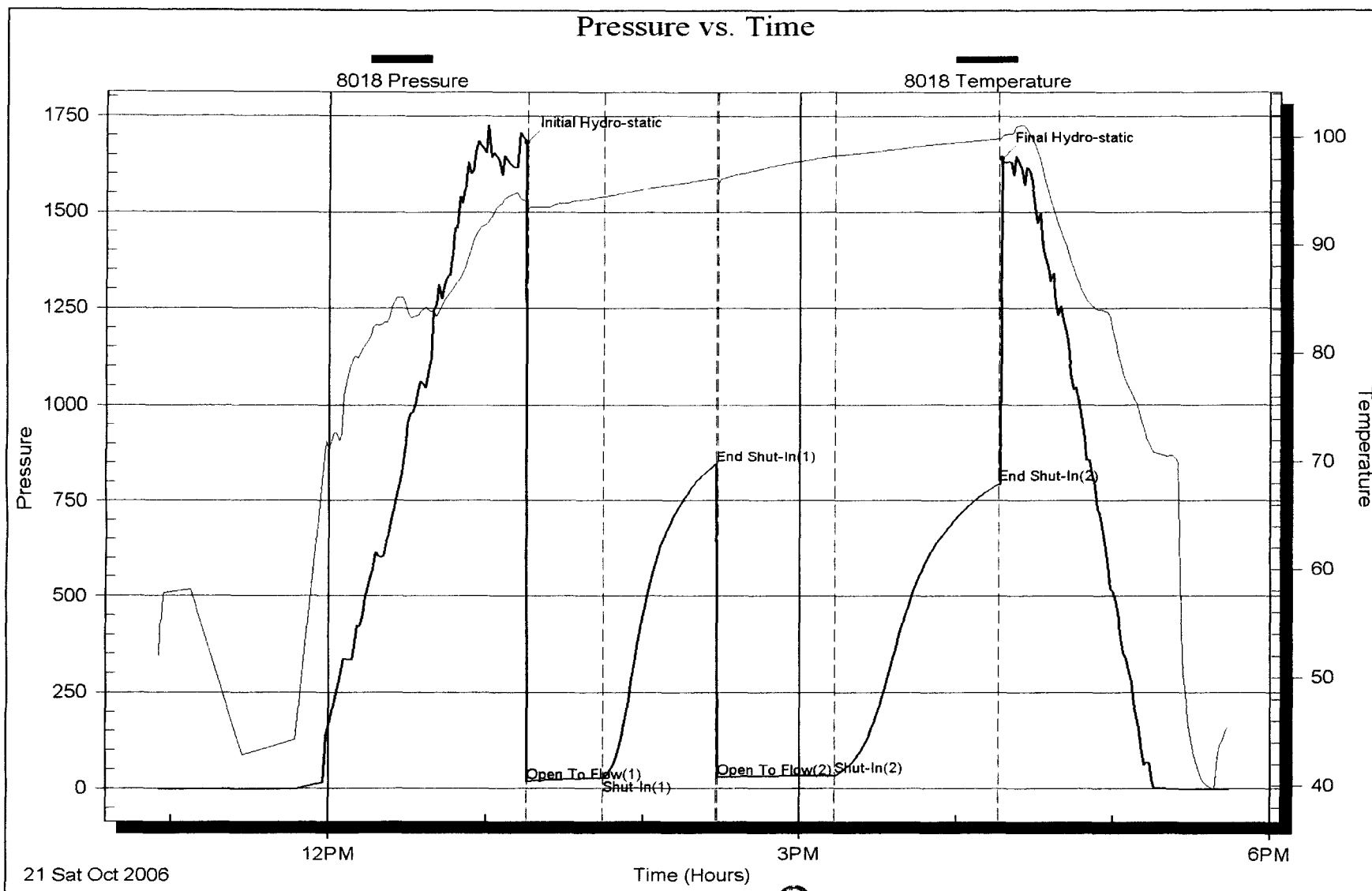
Recovery Comments:

Serial #: 8018

Inside Murfin Drilling Co INC

11 22 13 Stafford KS

DST Test Number: 2



21 Sat Oct 2006

Time (Hours)

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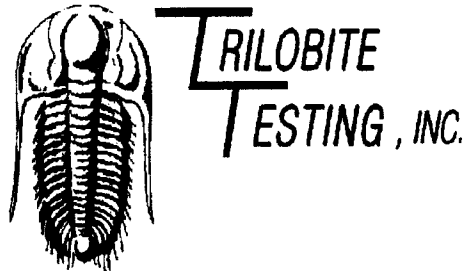
Ref. No: 26112

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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co INC**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

11 22 13 Stafford KS

Hull-Witt Unit # 1-11

Start Date: 2006.10.22 @ 06:27:35

End Date: 2006.10.22 @ 14:24:35

Job Ticket #: 26113 DST #: 3

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

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Murfin Drilling Co INC

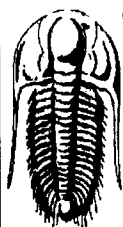
Hull-Witt Unit # 1-11

11 22 13 Stafford KS

DST # 3

Arbuckle

2006.10.22



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co INC

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hull-Witt Unit # 1-11

11 22 13 Stafford KS

Job Ticket: 26113

DST#: 3

Test Start: 2006.10.22 @ 06:27:35

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:06:05

Time Test Ended: 14:24:35

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3657.00 ft (KB) To 3730.00 ft (KB) (TVD)**

Total Depth: 3730.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1888.00 ft (KB)

1883.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 661.91 psig @ 3661.00 ft (KB)

Start Date: 2006.10.22

End Date:

2006.10.22

Start Time: 06:27:40

End Time:

14:24:34

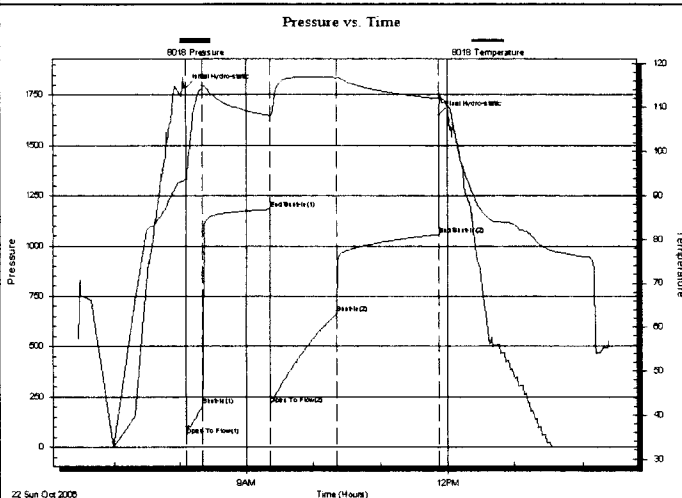
Capacity: 7000.00 psig

Last Calib.: 2006.10.22

Time On Btm: 2006.10.22 @ 08:05:35

Time Off Btm: 2006.10.22 @ 11:52:35

TEST COMMENT: IF Strong BOB in 3 min.
ISI Blow back built to 2 "
FF Strong BOB in 3 min.
FSI Blow back weak surf



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1786.79	93.65	Initial Hydro-static
1	56.60	93.31	Open To Flow (1)
15	204.83	114.58	Shut-In (1)
75	1183.30	108.19	End Shut-In (1)
76	210.21	107.89	Open To Flow (2)
135	661.91	116.74	Shut-In (2)
227	1057.48	112.01	End Shut-In (2)
227	1651.79	112.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1266.00	GSW w/scum of Oil	17.49
100.00	SOGMW 1%O 5%G 24%M 70%W	1.40
80.00	SGOCWM 5%G 5%O 40%W 50%M	1.12
0.00	60 Gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co INC

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hull-Witt Unit # 1-11

11 22 13 Stafford KS

Job Ticket: 26113

DST#: 3

Test Start: 2006.10.22 @ 06:27:35

Tool Information

Drill Pipe:	Length: 3610.00 ft	Diameter: 3.80 inches	Volume: 50.64 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume: 50.79 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3657.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	96.00 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			3635.00	
Shut In Tool	5.00			3640.00	
Hydraulic tool	5.00			3645.00	
Safety Joint	3.00			3648.00	
Packer	4.00			3652.00	23.00 Bottom Of Top Packer
Packer	5.00			3657.00	
Stubb	1.00			3658.00	
Perforations	2.00			3660.00	
Change Over Sub	1.00			3661.00	
Recorder	0.00	8018	Inside	3661.00	
Blank Spacing	60.00			3721.00	
Change Over Sub	1.00			3722.00	
Perforations	5.00			3727.00	
Recorder	0.00	11084	Outside	3727.00	
Bullnose	3.00			3730.00	73.00 Bottom Packers & Anchor

Total Tool Length: 96.00

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FLUID SUMMARY

Murfin Drilling Co INC

Hull-Witt Unit # 1-11

250 N Water Ste 300
Wichita KS 67202

11 22 13 Stafford KS

ATTN: David Doyel

Job Ticket: 26113

DST#: 3

Test Start: 2006.10.22 @ 06:27:35

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:

46000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1266.00	GSW w/scum of Oil	17.485
100.00	SOGMW 1%O 5%G 24%M 70%W	1.403
80.00	SGOCWM 5%G 5%O 40%W 50%M	1.122
0.00	60 Gas in pipe	0.000

Total Length: 1446.00 ft

Total Volume: 20.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

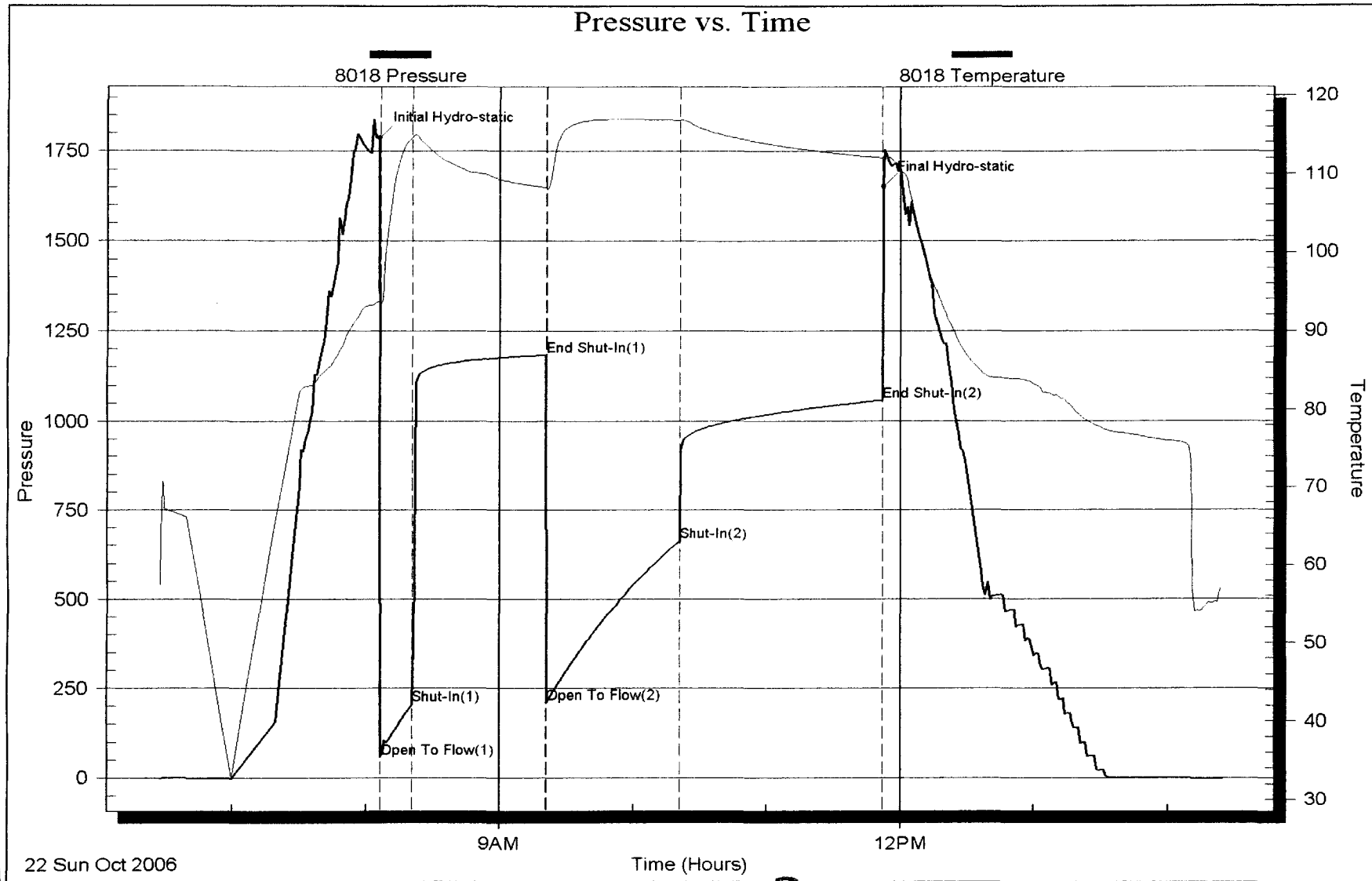
Serial #: 8018

Inside

Murfin Drilling Co INC

11 22 13 Stafford KS

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 26113

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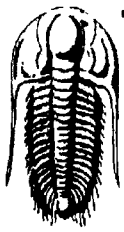
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OCT 31 2006

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co INC

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hull-Witt Unit # 1-11

11 22 13 Stafford KS

Job Ticket: 26114

DST#: 4

Test Start: 2006.10.23 @ 12:35:51

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:08:51

Time Test Ended: 20:12:51

Test Type: Conventional Straddle

Tester: John Schmidt

Unit No: 31

Interval: **3653.00 ft (KB) To 3725.00 ft (KB) (TVD)**

Total Depth: 3442.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1888.00 ft (KB)

1883.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8018**

Inside

Press@RunDepth: 49.30 psig @ 3656.00 ft (KB)

Start Date: 2006.10.23

End Date:

2006.10.23

Start Time: 12:35:56

End Time:

20:12:50

Capacity: 7000.00 psig

Last Calib.: 2006.10.23

Time On Btm: 2006.10.23 @ 14:08:21

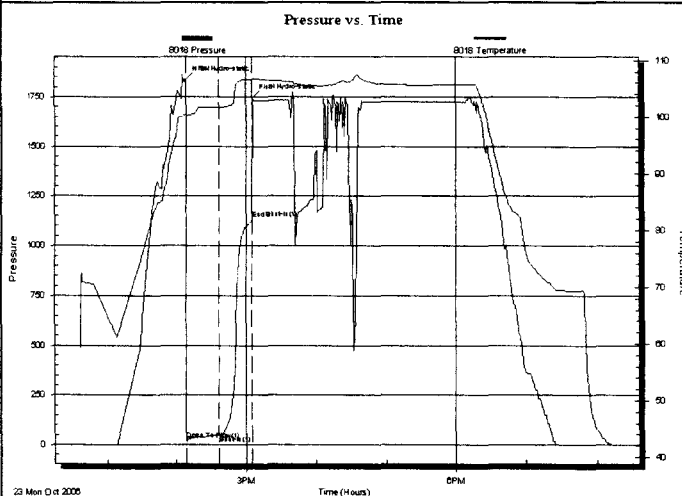
Time Off Btm: 2006.10.23 @ 15:05:21

TEST COMMENT: IF Weak to fair built to 6 "

ISI Dead

FF Strong BOB 2 min Decrease to 2 " 35 min. built back to BOB in 15 min.

FSI Dead



PRESSURE SUMMARY

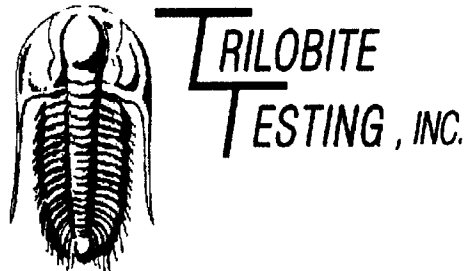
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1835.48	100.42	Initial Hydro-static
1	25.34	99.98	Open To Flow (1)
29	49.30	101.65	Shut-In(1)
57	1134.87	106.63	End Shut-In(1)
57	1746.87	106.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	GWM 10%G 22%W 68%M	6.74
212.00	SOGCM 1%O 10%G 89%M	2.97

Gas Rates

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



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co INC**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

11 22 13 Stafford KS

Hull-Witt Unit # 1-11

Start Date: 2006.10.23 @ 12:35:51

End Date: 2006.10.23 @ 20:12:51

Job Ticket #: 26114 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Murfin Drilling Co INC

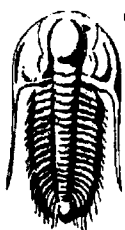
Hull-Witt Unit # 1-11

11 22 13 Stafford KS

DST # 4

Arbuckle

2006.10.23



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co INC

Hull-Witt Unit # 1-11

250 N Water Ste 300
Wichita KS 67202

11 22 13 Stafford KS

ATTN: David Doyel

Job Ticket: 26114

DST#: 4

Test Start: 2006.10.23 @ 12:35:51

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:

40000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	GWM 10%G 22%W 68%M	6.740
212.00	SOGCM 1%O 10%G 89%M	2.974

Total Length: 712.00 ft

Total Volume: 9.714 bbl

Num Fluid Samples: 0

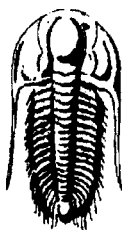
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co INC

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hull-Witt Unit # 1-11

11 22 13 Stafford KS

Job Ticket: 26114

DST#: 4

Test Start: 2006.10.23 @ 12:35:51

Tool Information

Drill Pipe:	Length: 3610.00 ft	Diameter: 3.80 inches	Volume: 50.64 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 50.79 bbl		Tool Chased 5.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3653.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	3725.00 ft			
Interval between Packers:	72.00 ft			
Tool Length:	180.00 ft			
Number of Packers:	3	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			3631.00		
Shut In Tool	5.00			3636.00		
Hydraulic tool	5.00			3641.00		
Safety Joint	3.00			3644.00		
Packer	4.00			3648.00	23.00	Bottom Of Top Packer
Packer	5.00			3653.00		
Stubb	1.00			3654.00		
Perforations	1.00			3655.00		
Change Over Sub	1.00			3656.00		
Recorder	0.00	8018	Inside	3656.00		
Blank Spacing	60.00			3716.00		
Change Over Sub	1.00			3717.00		
Perforations	7.00			3724.00		
Recorder	0.00	24174	Outside	3724.00		
Blank Off Sub	1.00			3725.00	72.00	Tool Interval
Packer	0.00			3725.00		
Stubb	1.00			3726.00		
Perforations	11.00			3737.00		
Change Over Sub	1.00			3738.00		
Recorder	0.00	11084		3738.00		
Blank Spacing	63.00			3801.00		
Change Over Sub	1.00			3802.00		
Perforations	5.00			3807.00		
Bullnose	3.00			3810.00	85.00	Bottom Packers & Anchor
Total Tool Length:	180.00					

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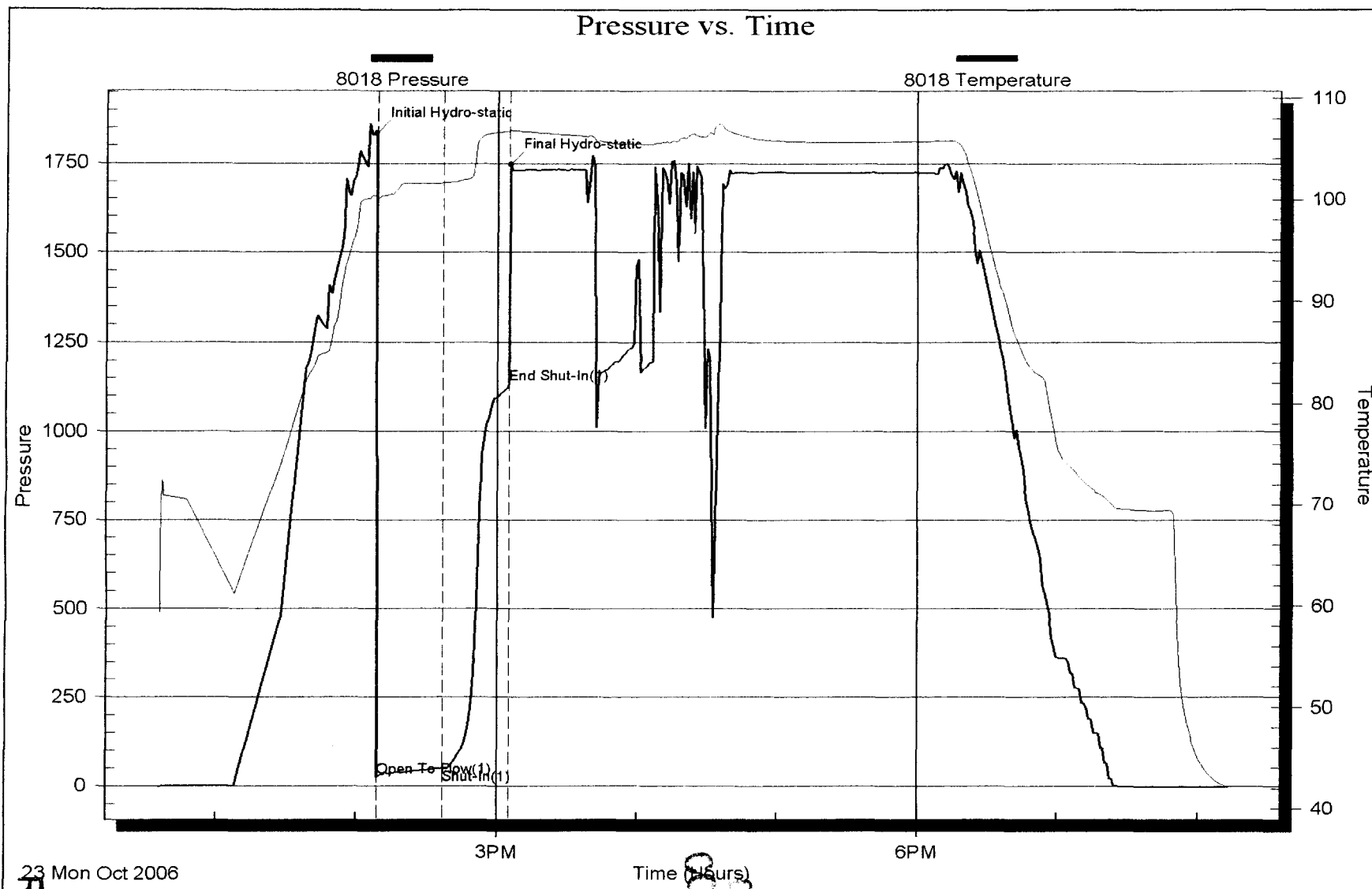
KCC WICHITA

Serial #: 8018

Inside Murfin Drilling Co INC

11 22 13 Stafford KS

DST Test Number: 4



23 Mon Oct 2006

Time (Hours)

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