

CONFIDENTIAL

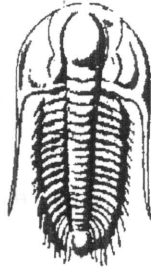
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NOV 21 2003

KCC WICHITA

ORIGINAL

API# 15-163-23379-00-00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250N Water
Suite 300
Wichita Ks 67202

ATTN: Scott Robinson

28-10s-19w Rooks Ks

Zerfas #1-28

Start Date: 2003.09.08 @ 15:17:00

End Date: 2003.09.08 @ 22:54:29

Job Ticket #: 18800 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

CONFIDENTIAL

ORIGINAL


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drig Co Inc

Zerfas #1-28

 250N Water
 Suite 300
 Wichita Ks 67202

28-10s-19w Rooks Ks

Job Ticket: 18800

DST#: 1

ATTN: Scott Robinson

Test Start: 2003.09.08 @ 15:17:00

ADIT # 15-163-23379-00-00

GENERAL INFORMATION:

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

Time Tool Opened: 17:07:59

Time Test Ended: 22:54:29

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3296.00 ft (KB) To 3329.00 ft (KB) (TVD)**

Total Depth: 3329.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2172.00 ft (KB)

2167.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6668**

Inside

Press@RunDepth: 168.76 psig @ 3297.01 ft (KB)

Start Date: 2003.09.08

End Date:

2003.09.08

Start Time: 15:17:00

End Time:

22:54:29

Capacity: 7000.00 psig

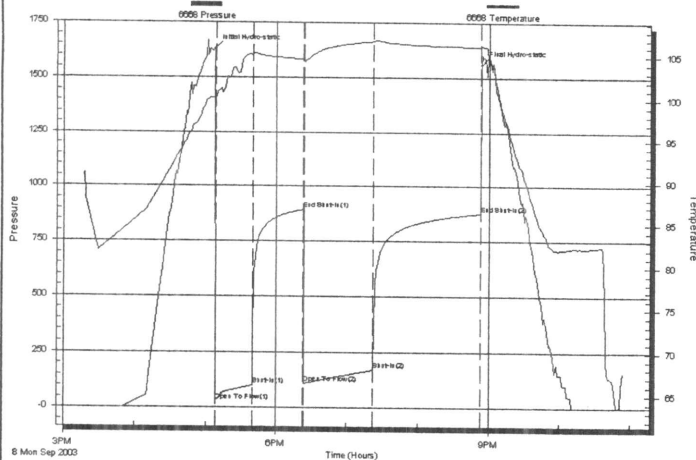
Last Calib.: 2003.09.08

Time On Btm: 2003.09.08 @ 17:07:29

Time Off Btm: 2003.09.08 @ 20:53:29

TEST COMMENT: IFP-w k bl thru-out 1/2" to 2 1/4"bl
 FFP-w k bl thru-out 1/2"bl
 Times 30-45-60-90

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.91	100.22	Initial Hydro-static
1	26.09	100.13	Open To Flow (1)
32	100.90	105.21	Shut-In (1)
75	892.18	104.70	End Shut-In (1)
76	109.57	104.45	Open To Flow (2)
135	168.76	106.80	Shut-In (2)
226	876.20	106.17	End Shut-In (2)
226	1558.94	106.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	clean oil	0.15
120.00	mw 20% mud 80% water w/show of oil	0.86
180.00	water RW.25@70F	2.52

Gas Rates

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

ORIGINAL


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig Co Inc

Zerfas #1-28

 250N Water
 Suite 300
 Wichita Ks 67202
 ATTN: Scott Robinson

28-10s-19w Rooks Ks

Job Ticket: 18800

DST#: 1

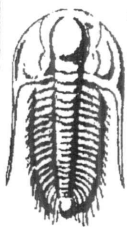
Test Start: 2003.09.08 @ 15:17:00

Tool Information

Drill Pipe:	Length: 3180.00 ft	Diameter: 3.80 inches	Volume: 44.61 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume:	45.20 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3296.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.02 ft			
Tool Length:	56.02 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			3274.00	
Shut In Tool	5.00			3279.00	
Hydraulic tool	5.00			3284.00	
Safety Joint	2.00			3286.00	
Packer	5.00			3291.00	23.00 Bottom Of Top Packer
Packer	5.00			3296.00	
Stubb	1.00			3297.00	
Recorder	0.01	6668	Inside	3297.01	
Perforations	29.00			3326.01	
Recorder	0.01	11085	Outside	3326.02	
Bullnose	3.00			3329.02	33.02 Bottom Packers & Anchor

Total Tool Length: 56.02



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilg Co Inc

Zerfas #1-28

250N Water
Suite 300
Wichita Ks 67202

28-10s-19w Rooks Ks

Job Ticket: 18800

DST#: 1

ATTN: Scott Robinson

Test Start: 2003.09.08 @ 15:17:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.11 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

22 deg API

Water Salinity:

32000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	clean oil	0.148
120.00	rmw 20%mud 80%water w/show of oil	0.863
180.00	water RW.25@70F	2.525

Total Length: 330.00 ft

Total Volume: 3.536 bbl

Num Fluid Samples: 0

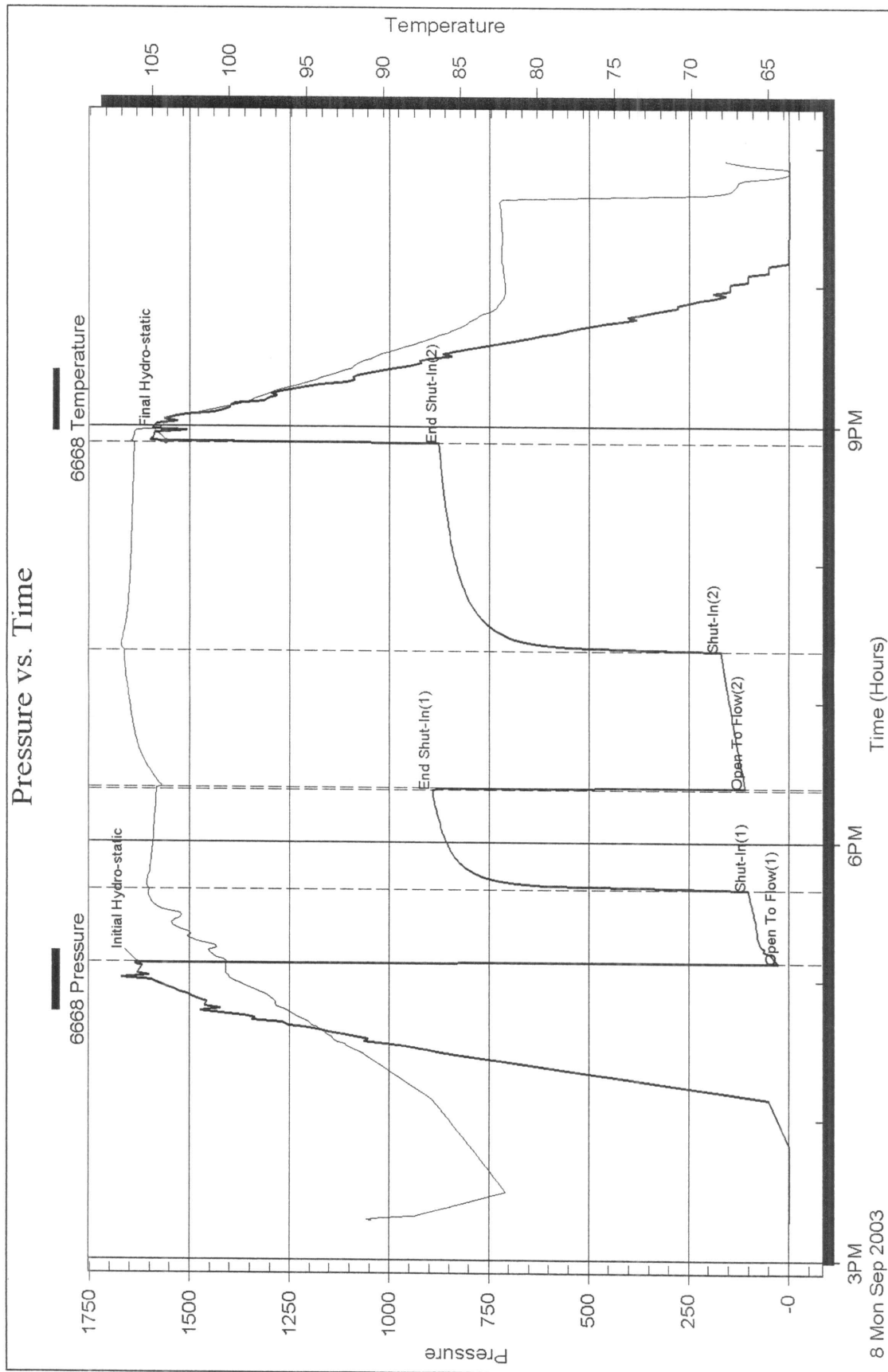
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



28-10-19W

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KCC WICHITA



DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250N Water
Suite 300
Wichita Ks 67202

ATTN: Scott Robinson

28-10s-19w Rooks Ks

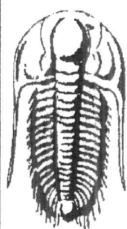
Zerfas #1-28

Start Date: 2003.09.09 @ 11:43:53

End Date: 2003.09.09 @ 17:43:22

Job Ticket #: 18676 DST #: 2

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 Drilg Co Inc

250N Water
Suite 300
Wichita Ks 67202

ATTN: Scott Robinson

Zerfas #1-28

28-10s-19w Rooks Ks

Job Ticket: 18676

DST#: 2

Test Start: 2003.09.09 @ 11:43:53

GENERAL INFORMATION:

Formation: **LKC B-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:27:22

Time Test Ended: 17:43:22

Interval: **3410.00 ft (KB) To 3482.00 ft (KB) (TVD)**

Total Depth: 3482.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 2172.00 ft (KB)

2167.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 71.54 psig @ 3419.01 ft (KB)

Start Date: 2003.09.09

End Date:

2003.09.09

Start Time: 11:43:53

End Time:

17:43:22

Capacity: 7000.00 psig

Last Calib.: 2003.09.09

Time On Btm: 2003.09.09 @ 13:26:22

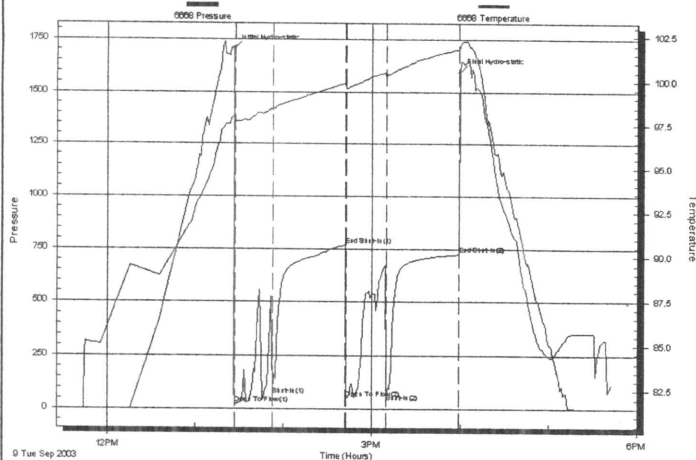
Time Off Btm: 2003.09.09 @ 15:59:22

TEST COMMENT: IFP-w k bl died in 15 min

FFP-no bl

Times 30-45-30-45

Pressure vs. Time



PRESSURE SUMMARY

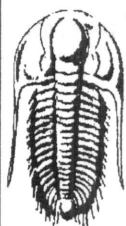
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.18	97.99	Initial Hydro-static
1	23.37	97.77	Open To Flow (1)
27	65.53	98.39	Shut-In (1)
76	768.48	99.90	End Shut-In (1)
77	50.12	99.62	Open To Flow (2)
104	71.54	100.26	Shut-In (2)
153	726.85	101.79	End Shut-In (2)
153	1595.02	101.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	OCM 12%oil 88% mud	0.39

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg Co Inc

Zerfas #1-28

250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

28-10s-19w Rooks Ks

Job Ticket: 18676

DST#: 2

Test Start: 2003.09.09 @ 11:43:53

Tool Information

Drill Pipe:	Length: 3274.00 ft	Diameter: 3.80 inches	Volume: 45.93 bbl	Tool Weight:	2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	46.52 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3410.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	72.02 ft				
Tool Length:	95.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3388.00	
Shut In Tool	5.00			3393.00	
Hydraulic tool	5.00			3398.00	
Safety Joint	2.00			3400.00	
Packer	5.00			3405.00	23.00 Bottom Of Top Packer
Packer	5.00			3410.00	
Stubb	1.00			3411.00	
Perforations	7.00			3418.00	
Change Over Sub	1.00			3419.00	
Recorder	0.01	6668	Inside	3419.01	
Blank Spacing	31.00			3450.01	
Change Over Sub	1.00			3451.01	
Perforations	28.00			3479.01	
Recorder	0.01	11085	Outside	3479.02	
Bullnose	3.00			3482.02	72.02 Bottom Packers & Anchor

Total Tool Length: 95.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Zerfas #1-28

250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

28-10s-19w Rooks Ks

Job Ticket: 18676

DST#: 2

Test Start: 2003.09.09 @ 11:43:53

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.10 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	OCM 12%oil 88%mud	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

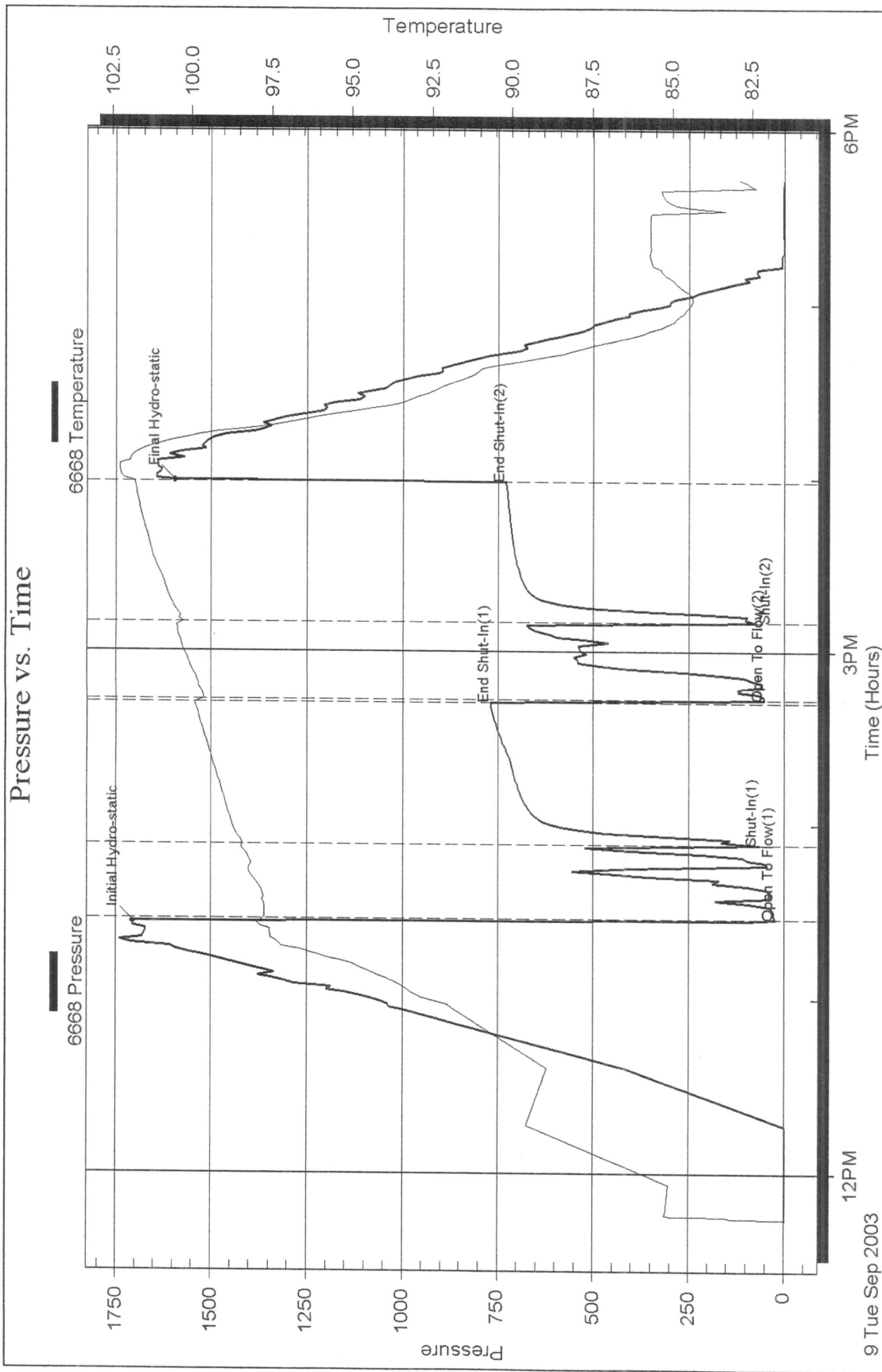
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



28-10-19w



DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250N Water
Suite 300
Wichita Ks 67202

ATTN: Scott Robinson

28-10s-19w Rooks Ks

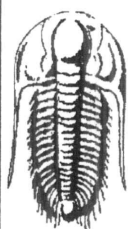
Zerfas #1-28

Start Date: 2003.09.10 @ 02:28:23

End Date: 2003.09.10 @ 08:31:52

Job Ticket #: 18677 DST #: 3

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 Drig Co Inc

250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

Zerfas #1-28

28-10s-19w Rooks Ks

Job Ticket: 18677

DST#: 3

Test Start: 2003.09.10 @ 02:28:23

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:24:52

Time Test Ended: 08:31:52

Interval: **3510.00 ft (KB) To 3560.00 ft (KB) (TVD)**

Total Depth: 3560.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 2172.00 ft (KB)

2167.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 29.43 psig @ 3513.01 ft (KB)

Start Date: 2003.09.10

End Date:

2003.09.10

Start Time: 02:28:23

End Time:

08:31:52

Capacity: 7000.00 psig

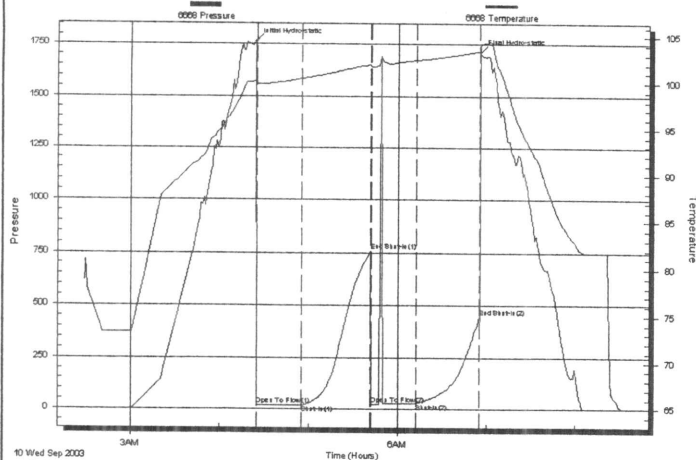
Last Calib.: 2003.09.10

Time On Btm: 2003.09.10 @ 04:24:22

Time Off Btm: 2003.09.10 @ 06:55:52

TEST COMMENT: IFP-w k bl died in 5 min
FFP-no bl
Times 30-45-30-45

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.33	100.20	Initial Hydro-static
1	18.81	99.89	Open To Flow (1)
31	20.58	100.50	Shut-In(1)
77	758.64	101.98	End Shut-In(1)
78	25.84	101.75	Open To Flow (2)
108	29.43	102.45	Shut-In(2)
151	443.23	103.41	End Shut-In(2)
152	1712.49	103.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 2%oil 98% mud	0.10

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilg Co Inc

250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

Zerfas #1-28

28-10s-19w Rooks Ks

Job Ticket: 18677

DST#: 3

Test Start: 2003.09.10 @ 02:28:23

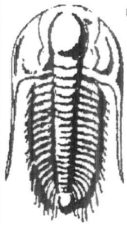
Tool Information

Drill Pipe:	Length: 3397.00 ft	Diameter: 3.80 inches	Volume: 47.65 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 48.24 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3510.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.02 ft			
Tool Length:	73.02 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			3488.00	
Shut In Tool	5.00			3493.00	
Hydraulic tool	5.00			3498.00	
Safety Joint	2.00			3500.00	
Packer	5.00			3505.00	23.00 Bottom Of Top Packer
Packer	5.00			3510.00	
Stubb	1.00			3511.00	
Perforations	1.00			3512.00	
Change Over Sub	1.00			3513.00	
Recorder	0.01	6668	Inside	3513.01	
Blank Spacing	30.00			3543.01	
Change Over Sub	1.00			3544.01	
Perforations	13.00			3557.01	
Recorder	0.01	11085	Outside	3557.02	
Bullnose	3.00			3560.02	50.02 Bottom Packers & Anchor

Total Tool Length: 73.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Zerfas #1-28

250N Water
Suite 300
Wichita Ks 67202

28-10s-19w Rooks Ks

Job Ticket: 18677

DST#: 3

ATTN: Scott Robinson

Test Start: 2003.09.10 @ 02:28:23

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.10 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOCM 2%oil 98%mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

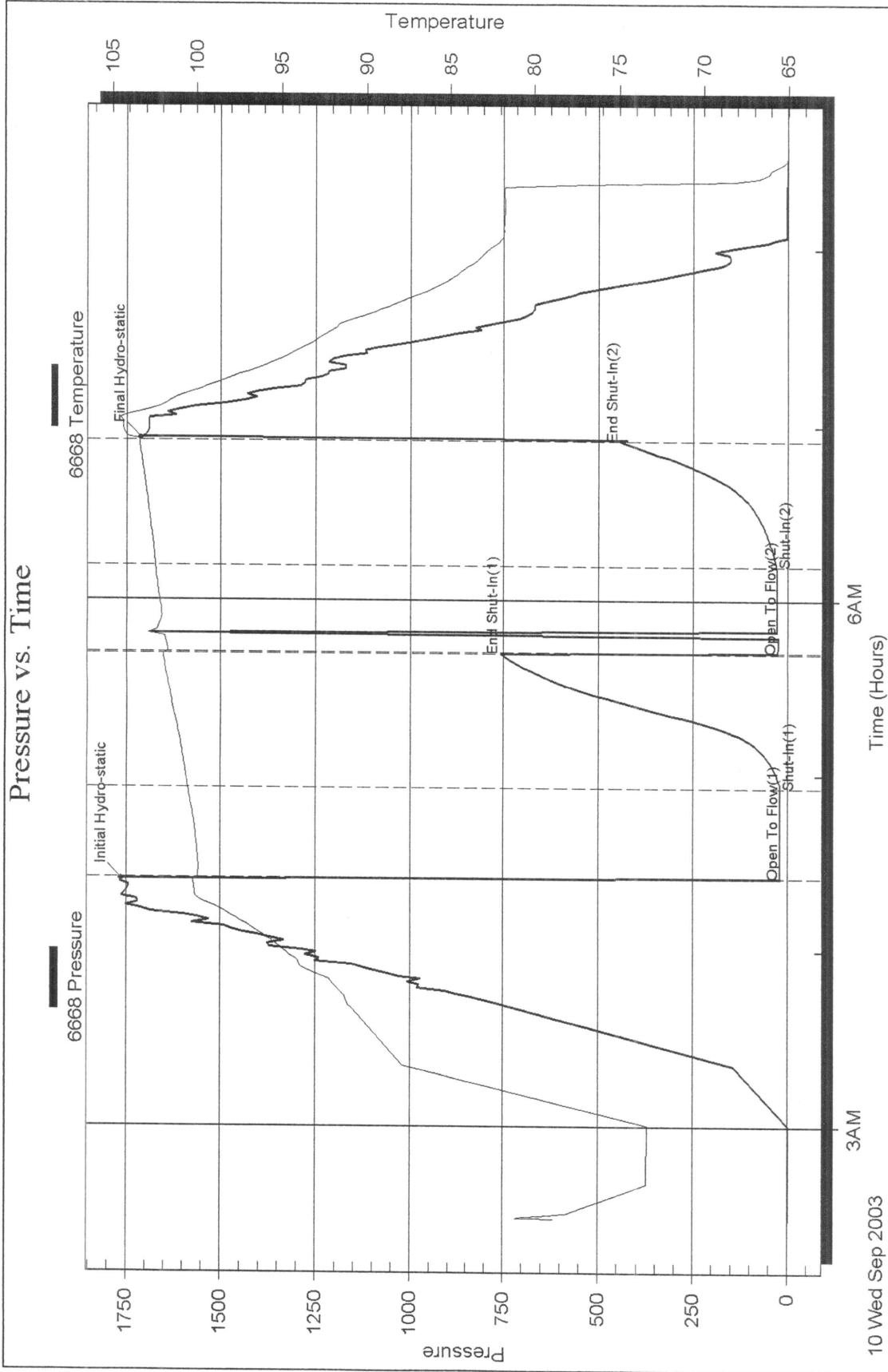
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



28-10-19W

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DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250N Water
Suite 300
Wichita Ks 67202

ATTN: Scott Robinson

28-10s-19w Rooks Ks

Zerfas #1-28

Start Date: 2003.09.10 @ 19:09:29

End Date: 2003.09.11 @ 02:45:58

Job Ticket #: 18678 DST #: 4

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

Murfin Drlg Co Inc

Zerfas #1-28

28-10s-19w Rooks Ks

DST # 4

Lans I,J,K conglo

2003.09.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilg Co Inc
250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

Zerfas #1-28

28-10s-19w Rooks Ks

Job Ticket: 18678

DST#: 4

Test Start: 2003.09.10 @ 19:09:29

GENERAL INFORMATION:

Formation: **Lans I,J,K conгло**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:59:58

Time Test Ended: 02:45:58

Interval: **3555.00 ft (KB) To 3654.00 ft (KB) (TVD)**

Total Depth: 3654.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 2172.00 ft (KB)

2167.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 76.46 psig @ 3560.01 ft (KB)

Start Date: 2003.09.10

End Date:

2003.09.11

Start Time: 19:09:29

End Time:

02:45:58

Capacity: 7000.00 psig

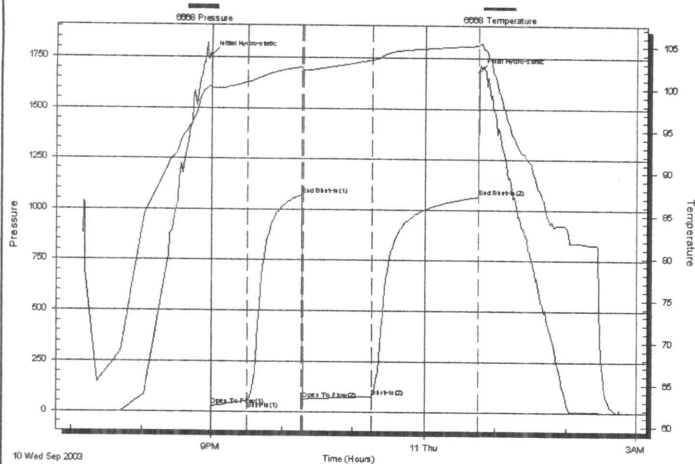
Last Calib.: 2003.09.11

Time On Btm: 2003.09.10 @ 20:59:28

Time Off Btm: 2003.09.11 @ 00:45:58

TEST COMMENT: IFP-w k bl thru-out 1 1/4" to 1/4" bl
FFP-w k bl thru-out 1/4" bl
Times 30-45-60-90

Pressure vs. Time



PRESSURE SUMMARY

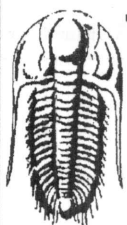
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.72	100.30	Initial Hydro-static
1	26.33	100.07	Open To Flow (1)
31	52.12	100.72	Shut-In(1)
77	1069.95	102.53	End Shut-In(1)
78	61.44	102.21	Open To Flow (2)
137	76.46	103.37	Shut-In(2)
226	1063.69	105.09	End Shut-In(2)
227	1683.79	105.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MGO 15%gas 15%mud 70%oil	0.59
30.00	HOCM 45%mud 55%oil	0.42
0.00	60 GIP	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 Drlg Co Inc

250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

Zerfas #1-28

28-10s-19w Rooks Ks

Job Ticket: 18678

DST#: 4

Test Start: 2003.09.10 @ 19:09:29

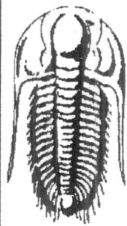
Tool Information

Drill Pipe:	Length: 3427.00 ft	Diameter: 3.80 inches	Volume: 48.07 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 48.66 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3555.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	99.02 ft			
Tool Length:	122.02 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			3533.00	
Shut In Tool	5.00			3538.00	
Hydraulic tool	5.00			3543.00	
Safety Joint	2.00			3545.00	
Packer	5.00			3550.00	23.00 Bottom Of Top Packer
Packer	5.00			3555.00	
Stubb	1.00			3556.00	
Perforations	3.00			3559.00	
Change Over Sub	1.00			3560.00	
Recorder	0.01	6668	Inside	3560.01	
Blank Spacing	62.00			3622.01	
Change Over Sub	1.00			3623.01	
Perforations	28.00			3651.01	
Recorder	0.01	11085	Outside	3651.02	
Bullnose	3.00			3654.02	99.02 Bottom Packers & Anchor

Total Tool Length: 122.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Zerfas #1-28

250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

28-10s-19w Rooks Ks

Job Ticket: 18678 **DST#: 4**

Test Start: 2003.09.10 @ 19:09:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.11 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MGO 15%gas 15%mud 70%oil	0.590
30.00	HOCM 45%mud 55%oil	0.421
0.00	60 GIP	0.000

Total Length: 150.00 ft

Total Volume: 1.011 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

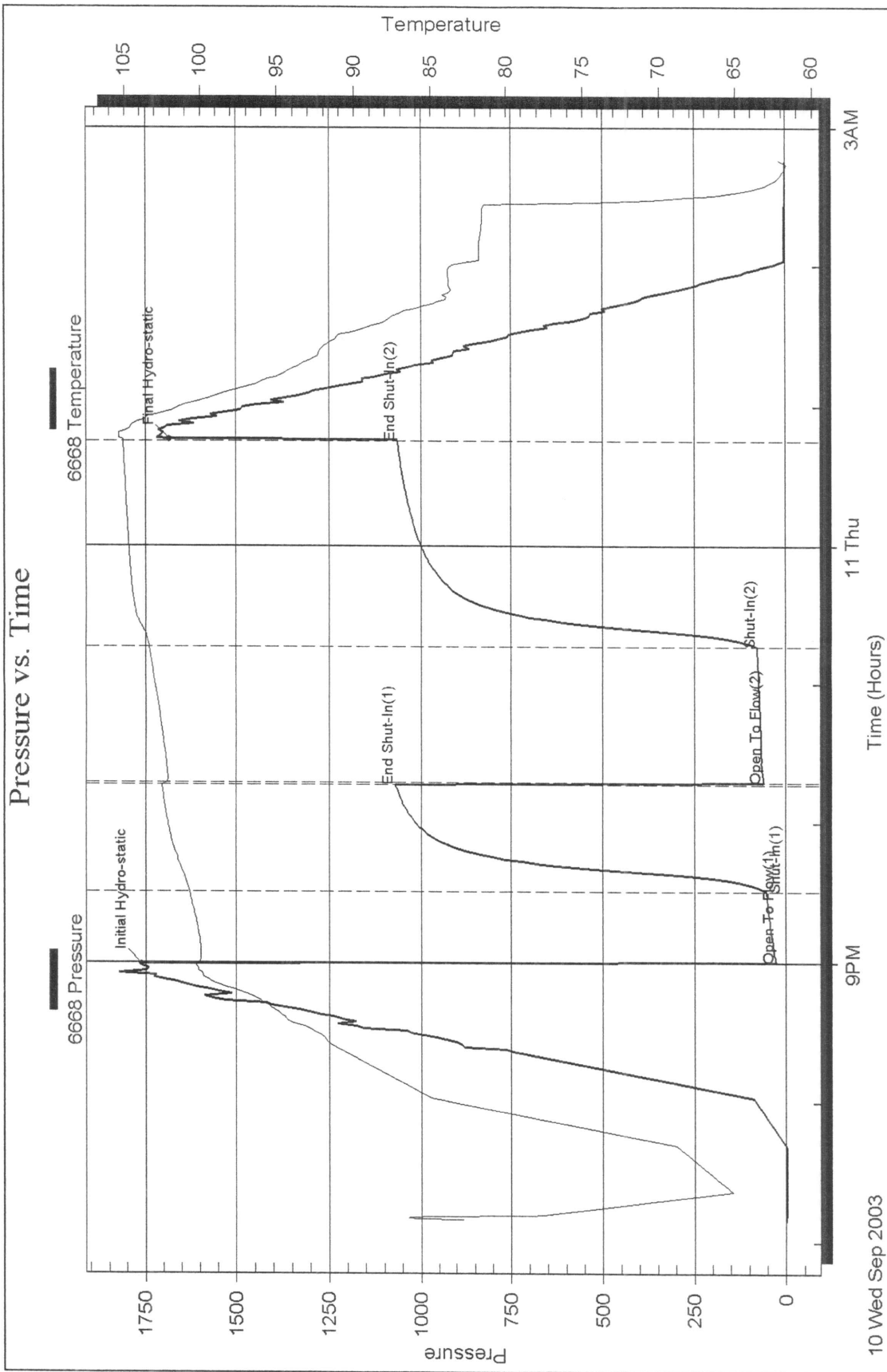
Serial #: 6668

Inside

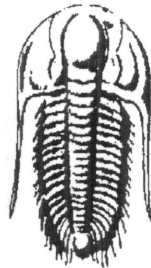
Murfin Drig Co Inc

28-10s-19w Rocks Ks

DST Test Number: 4



28-10-19w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250N Water
Suite 300
Wichita Ks 67202

ATTN: Scott Robinson

28-10s-19w Rooks Ks

Zerfas #1-28

Start Date: 2003.09.11 @ 11:21:06

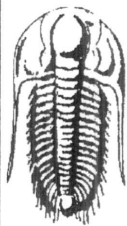
End Date: 2003.09.11 @ 19:00:05

Job Ticket #: 18679 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 Drilg Co Inc

250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

Zerfas #1-28

28-10s-19w Rooks Ks

Job Ticket: 18679

DST#: 5

Test Start: 2003.09.11 @ 11:21:06

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:02:05

Time Test Ended: 19:00:05

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3702.00 ft (KB) To 3720.00 ft (KB) (TVD)**

Total Depth: 3720.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2172.00 ft (KB)

2167.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Press@RunDepth: 163.44 psig @ ft (KB)

Start Date: 2003.09.11

End Date: 2003.09.11

Capacity: 7000.00 psig

Last Calib.: 2003.09.13

Start Time: 11:21:06

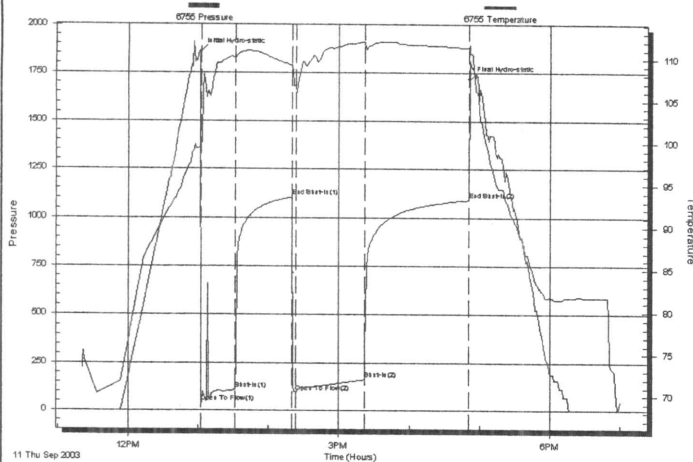
End Time: 19:00:05

Time On Btm: 2003.09.11 @ 13:01:35

Time Off Btm: 2003.09.11 @ 16:50:35

TEST COMMENT: IFP-w k bl thru-out 1/2" to 1 1/2" bl
FFP-w k bl thru-out 1/4" to 1" bl
Times 30-45-60-90

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1855.20	99.44	Initial Hydro-static
1	41.97	99.40	Open To Flow (1)
30	109.98	110.13	Shut-In(1)
79	1104.85	109.20	End Shut-In(1)
82	96.81	106.74	Open To Flow (2)
140	163.44	112.00	Shut-In(2)
229	1090.76	111.29	End Shut-In(2)
229	1718.25	111.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	clean oil	1.85
150.00	mo 35% mud 65% oil	2.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg Co Inc

Zerfas #1-28

250N Water

28-10s-19w Rooks Ks

Suite 300

Job Ticket: 18679

DST#: 5

Wichita Ks 67202

ATTN: Scott Robinson

Test Start: 2003.09.11 @ 11:21:06

Tool Information

Drill Pipe:	Length: 3584.00 ft	Diameter: 3.80 inches	Volume: 50.27 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 50.86 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3702.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.02 ft			
Tool Length:	41.02 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			3680.00	
Shut In Tool	5.00			3685.00	
Hydraulic tool	5.00			3690.00	
Safety Joint	2.00			3692.00	
Packer	5.00			3697.00	23.00 Bottom Of Top Packer
Packer	5.00			3702.00	
Stubb	1.00			3703.00	
Recorder	0.01	6668	Inside	3703.01	
Perforations	14.00			3717.01	
Recorder	0.01	11085	Outside	3717.02	
Bullnose	3.00			3720.02	18.02 Bottom Packers & Anchor

Total Tool Length: 41.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Zerfas #1-28

250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

28-10s-19w Rooks Ks

Job Ticket: 18679

DST#: 5

Test Start: 2003.09.11 @ 11:21:06

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.11 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

18 deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	clean oil	1.853
150.00	mo 35% mud 65% oil	2.104

Total Length: 360.00 ft

Total Volume: 3.957 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

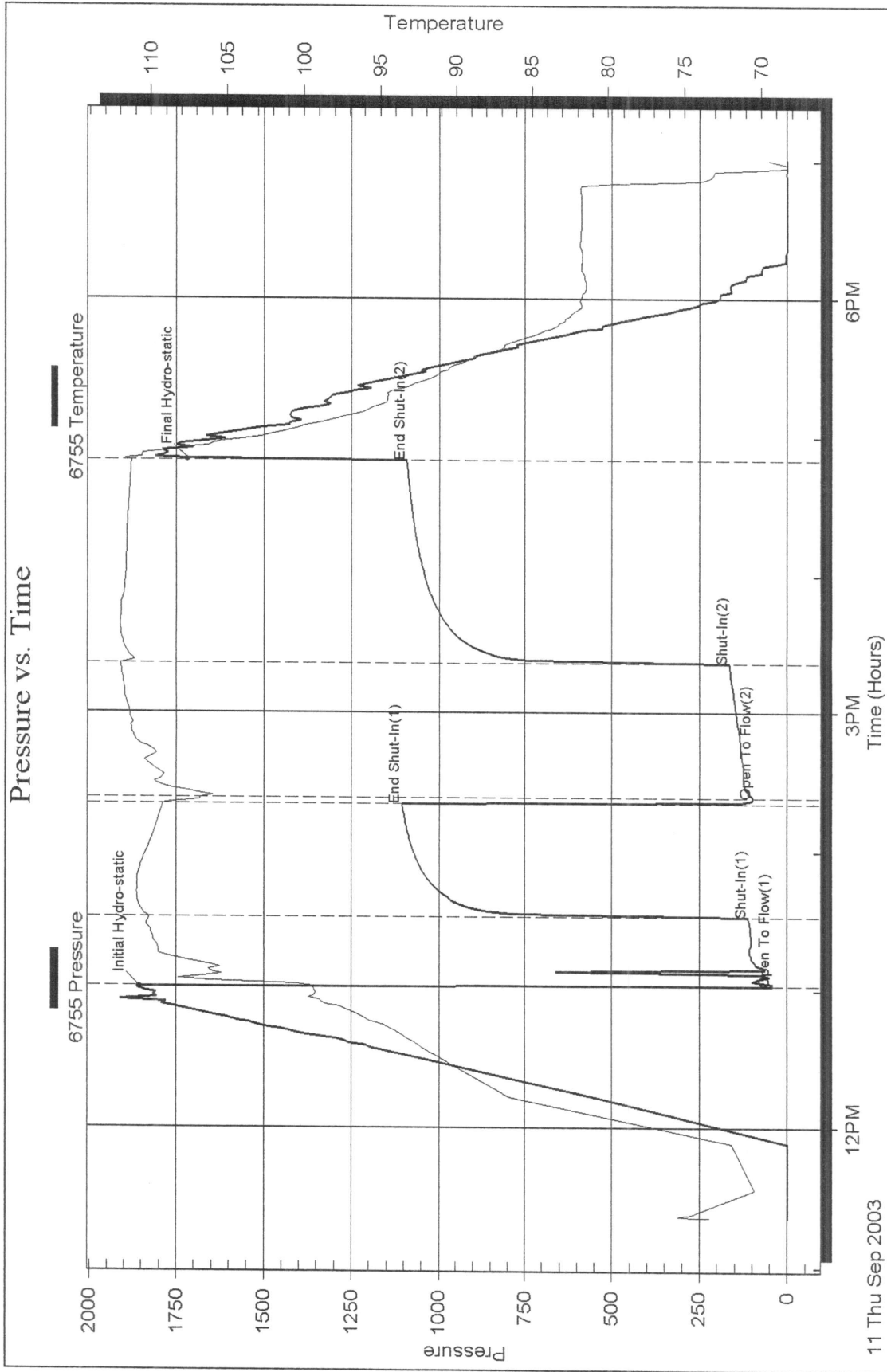
Recovery Comments:

Serial #: 6755

Murfin Drig Co Inc

28-10s-19w Rooks Ks

DST Test Number: 5



28-10-19W

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DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250N Water
Suite 300
Wichita Ks 67202

ATTN: Scott Robinson

28-10s-19w Rooks Ks

Zerfas #1-28

Start Date: 2003.09.11 @ 23:18:05

End Date: 2003.09.12 @ 05:11:04

Job Ticket #: 18680 DST #: 6

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 Drlg Co Inc

250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

Zerfas #1-28

28-10s-19w Rooks Ks

Job Ticket: 18680

DST#: 6

Test Start: 2003.09.11 @ 23:18:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:00:00

Time Test Ended: 05:11:04

Interval: **3720.00 ft (KB) To 3725.00 ft (KB) (TVD)**

Total Depth: 3725.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 2172.00 ft (KB)

2167.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668 Inside

Press@RunDepth: psig @ 3721.01 ft (KB)

Start Date: 2003.09.11

End Date:

2003.09.12

Start Time: 23:18:05

End Time:

05:11:04

Capacity: 7000.00 psig

Last Calib.: 2003.09.12

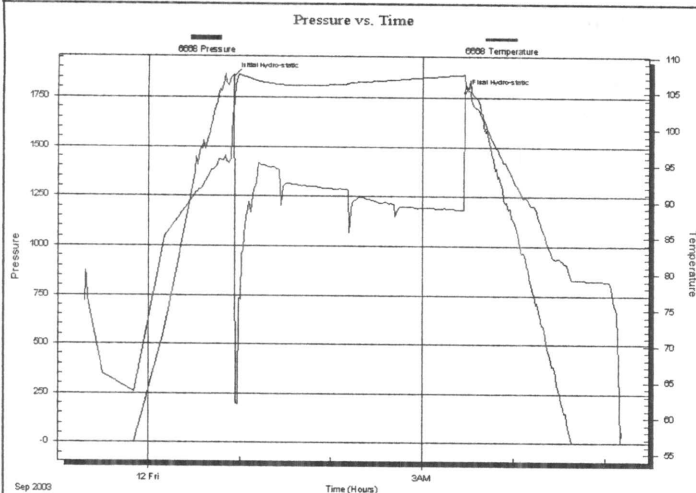
Time On Btm: 2003.09.12 @ 00:56:04

Time Off Btm: 2003.09.12 @ 03:27:34

TEST COMMENT: IFF- w k bl died in 8 min

FFP-no bl

Times 30-45-30-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1853.28	102.37	Initial Hydro-static
152	1775.17	107.59	Final Hydro-static

Recovery

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

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilg Co Inc

Zerfas #1-28

250N Water

28-10s-19w Rooks Ks

Suite 300

Job Ticket: 18680

DST#: 6

Wichita Ks 67202

ATTN: Scott Robinson

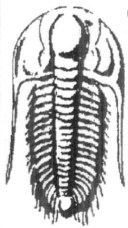
Test Start: 2003.09.11 @ 23:18:05

Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.80 inches	Volume: 50.26 bbl	Tool Weight:	2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	50.85 bbl	Tool Chased	3.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3720.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	5.01 ft				
Tool Length:	28.01 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3698.00	
Shut In Tool	5.00			3703.00	
Hydraulic tool	5.00			3708.00	
Safety Joint	2.00			3710.00	
Packer	5.00			3715.00	23.00 Bottom Of Top Packer
Packer	5.00			3720.00	
Stubb	1.00			3721.00	
Recorder	0.01	6668	Inside	3721.01	
Perforations	1.00			3722.01	
Bullnose	3.00			3725.01	5.01 Bottom Packers & Anchor
Total Tool Length:	28.01				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg Co Inc

Zerfas #1-28

250N Water
Suite 300
Wichita Ks 67202

28-10s-19w Rooks Ks

Job Ticket: 18680

DST#: 6

ATTN: Scott Robinson

Test Start: 2003.09.11 @ 23:18:05

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: 7.11 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: slid tool aprox 3' to bottom

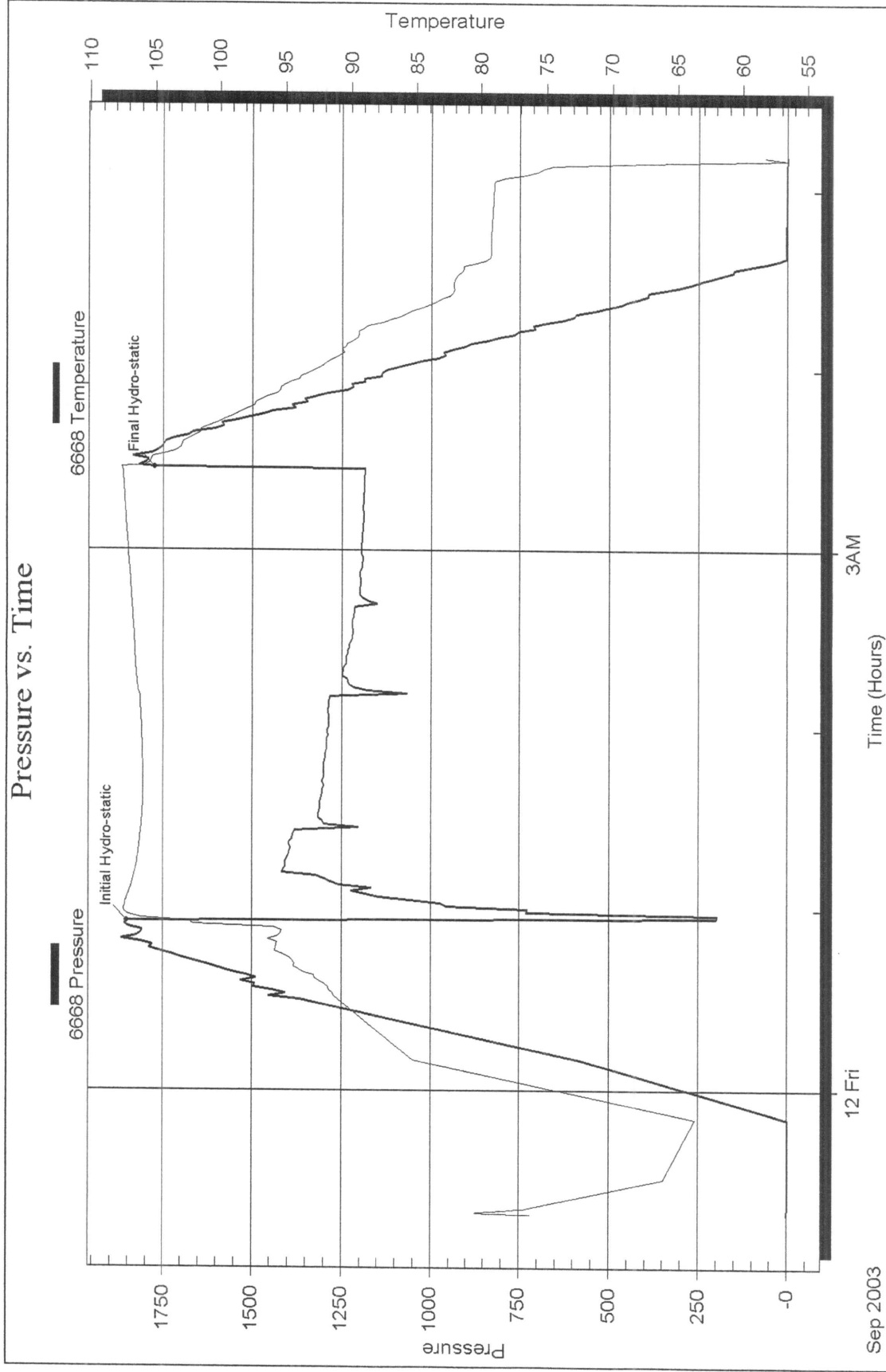
Serial #: 6668

Inside

Murfin Drig Co Inc

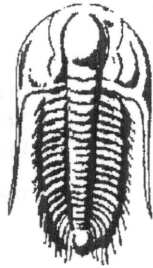
28-10s-19w Rocks Ks

DST Test Number: 6



28-10-19W

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250N Water
Suite 300
Wichita Ks 67202

ATTN: Scott Robinson

28-10s-19w Rooks Ks

Zerfas #1-28

Start Date: 2003.09.12 @ 09:48:22

End Date: 2003.09.12 @ 17:07:51

Job Ticket #: 18681 DST #: 7

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 Drilg Co Inc

250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

Zerfas #1-28

28-10s-19w Rooks Ks

Job Ticket: 18681

DST#: 7

Test Start: 2003.09.12 @ 09:48:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:29:51

Time Test Ended: 17:07:51

Interval: **3720.00 ft (KB) To 3725.00 ft (KB) (TVD)**

Total Depth: 3725.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 2172.00 ft (KB)

2167.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Press@RunDepth: 74.63 psig @ ft (KB)

Start Date: 2003.09.12 End Date: 2003.09.12

Start Time: 09:48:22 End Time: 17:07:51

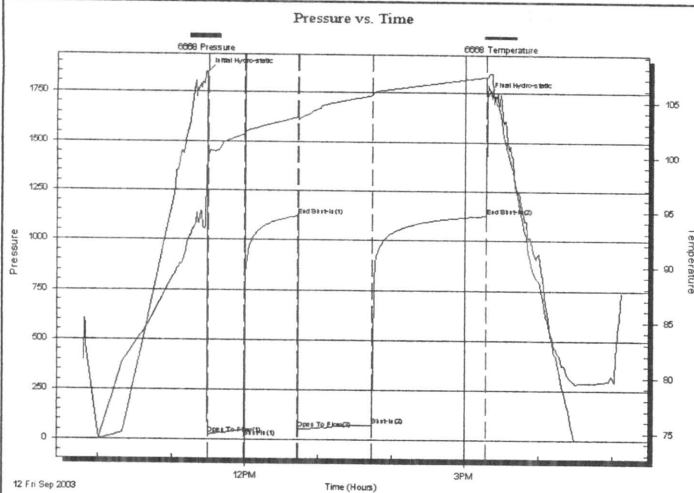
Capacity: 7000.00 psig

Last Calib.: 2003.09.12

Time On Btm: 2003.09.12 @ 11:28:51

Time Off Btm: 2003.09.12 @ 15:17:51

TEST COMMENT: IFP-w k bl thru-out 1/4" to surface bl
FFP-w k surface bl thru-out
Times 30-45-60-90



PRESSURE SUMMARY

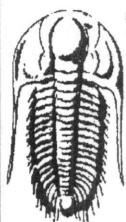
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1843.74	99.48	Initial Hydro-static
1	26.97	100.13	Open To Flow (1)
31	53.59	102.02	Shut-In(1)
74	1121.62	103.57	End Shut-In(1)
75	53.47	103.31	Open To Flow (2)
136	74.63	105.58	Shut-In(2)
229	1126.18	107.22	End Shut-In(2)
229	1734.56	107.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	CO	0.47
60.00	O&WCM 30%oil 30%water 40%mud	0.61

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg Co Inc

Zerfas #1-28

250N Water
Suite 300
Wichita Ks 67202

28-10s-19w Rooks Ks

Job Ticket: 18681

DST#: 7

ATTN: Scott Robinson

Test Start: 2003.09.12 @ 09:48:22

Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.80 inches	Volume: 50.26 bbl	Tool Weight:	2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 50.85 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3720.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	5.01 ft				
Tool Length:	28.01 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			3698.00	
Shut In Tool	5.00			3703.00	
Hydraulic tool	5.00			3708.00	
Safety Joint	2.00			3710.00	
Packer	5.00			3715.00	23.00 Bottom Of Top Packer
Packer	5.00			3720.00	
Stubb	1.00			3721.00	
Recorder	0.01	6668	Inside	3721.01	
Perforations	1.00			3722.01	
Bullnose	3.00			3725.01	5.01 Bottom Packers & Anchor
Total Tool Length:	28.01				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg Co Inc

Zerfas #1-28

250N Water

28-10s-19w Rooks Ks

Suite 300

Job Ticket: 18681

DST#: 7

Wichita Ks 67202

Test Start: 2003.09.12 @ 09:48:22

ATTN: Scott Robinson

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

18 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.11 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	CO	0.467
60.00	O&WCM 30%oil 30%water 40%mud	0.614

Total Length: 155.00 ft

Total Volume: 1.081 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .26@70F

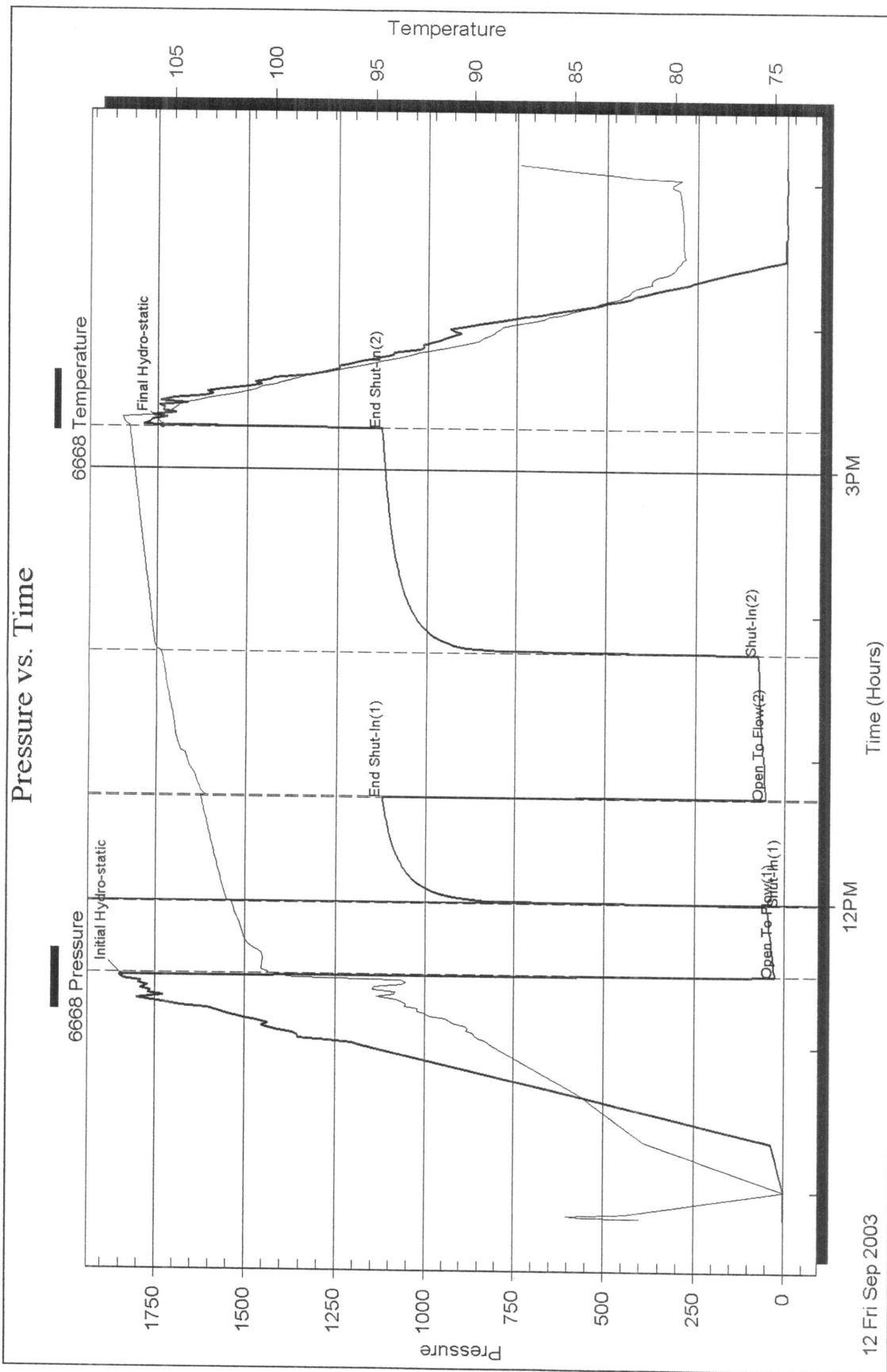
slid tool approx 3'to bottom

Serial #: 6668

Murfin Drig Co Inc

28-10s-19w Rocks Ks

DST Test Number: 7



28-10-19W

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DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**
250N Water
Suite 300
Wichita Ks 67202

ATTN: Scott Robinson

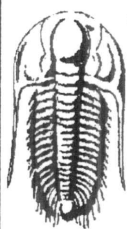
28-10s-19w Rooks Ks

Zerfas #1-28

Start Date: 2003.09.12 @ 23:49:18
End Date: 2003.09.13 @ 07:31:47
Job Ticket #: 18682 DST #: 8

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

Murfin Drlg Co Inc
Zerfas #1-28
28-10s-19w Rooks Ks
DST # 8
Arbuckle
2003.09.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilg Co Inc
250N Water
Suite 300
Wichita Ks 67202
ATTN: Scott Robinson

Zerfas #1-28

28-10s-19w Rooks Ks

Job Ticket: 18682

DST#: 8

Test Start: 2003.09.12 @ 23:49:18

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:31:47

Time Test Ended: 07:31:47

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3732.00 ft (KB) To 3738.00 ft (KB) (TVD)**

Total Depth: 3738.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2172.00 ft (KB)

2167.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 1172.99 psig @ 3733.01 ft (KB)

Start Date: 2003.09.12

End Date:

2003.09.13

Start Time: 23:49:18

End Time:

07:31:47

Capacity: 7000.00 psig

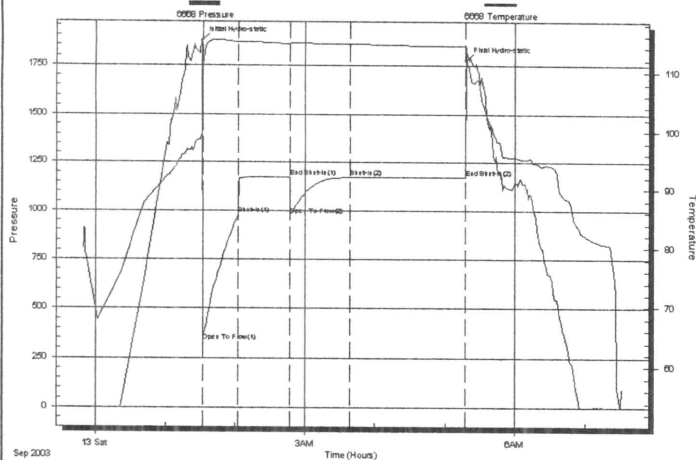
Last Calib.: 2003.09.13

Time On Btm: 2003.09.13 @ 01:31:17

Time Off Btm: 2003.09.13 @ 05:17:47

TEST COMMENT: IFP-strg bl in 1 min
FFP-strg bl in 6 min, decreased to surface bl
Times 3-45-60-90
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

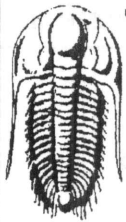
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.48	99.59	Initial Hydro-static
1	330.32	104.91	Open To Flow (1)
31	978.52	115.03	Shut-In(1)
76	1173.73	114.68	End Shut-In(1)
76	974.31	114.68	Open To Flow (2)
127	1172.99	114.69	Shut-In(2)
226	1174.45	114.32	End Shut-In(2)
227	1774.41	114.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SOCMW 2%oil 15% mud 83%w ater	0.59
2420.00	Water RW.5@50F	33.95

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilg Co Inc

Zerfas #1-28

250N Water

28-10s-19w Rooks Ks

Suite 300

Job Ticket: 18682

DST#: 8

Wichita Ks 67202

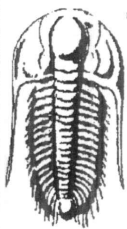
ATTN: Scott Robinson

Test Start: 2003.09.12 @ 23:49:18

Tool Information

Drill Pipe:	Length: 3613.00 ft	Diameter: 3.80 inches	Volume: 50.68 bbl	Tool Weight:	2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	51.27 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3732.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.01 ft				
Tool Length:	29.01 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			3710.00	
Shut In Tool	5.00			3715.00	
Hydraulic tool	5.00			3720.00	
Safety Joint	2.00			3722.00	
Packer	5.00			3727.00	23.00 Bottom Of Top Packer
Packer	5.00			3732.00	
Stubb	1.00			3733.00	
Recorder	0.01	6668	Inside	3733.01	
Perforations	2.00			3735.01	
Bullnose	3.00			3738.01	6.01 Bottom Packers & Anchor
Total Tool Length:	29.01				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg Co Inc

Zerfas #1-28

250N Water

28-10s-19w Rooks Ks

Suite 300

Job Ticket: 18682

DST#: 8

Wichita Ks 67202

ATTN: Scott Robinson

Test Start: 2003.09.12 @ 23:49:18

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:

19000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.10 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SOCMW 2%oil 15%mud 83%water	0.590
2420.00	Water RW.5@50F	33.946

Total Length: 2540.00 ft

Total Volume: 34.536 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

Inside

Murfin Drtg Co Inc

28-10s-19w Rooks Ks

DST Test Number: 8

