

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

21 9 27W Sheridan KS

Alwhit #1-21

Start Date: 2008.06.07 @ 23:56:52

End Date: 2008.06.08 @ 09:18:52

Job Ticket #: 32021 DST #: 1

API: 15-179-21198

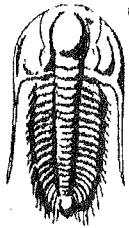
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SEP 11 2008

CONSERVATION DIVISION
WICHITA, KS

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32021

DST#: 1

Test Start: 2008.06.07 @ 23:56:52

GENERAL INFORMATION:

Formation: **Toronto-"A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:04:52

Time Test Ended: 09:18:52

Interval: **3824.00 ft (KB) To 3870.00 ft (KB) (TVD)**

Total Depth: 3870.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Jason Molemore

Unit No: 32

Reference Elevations: 2734.00 ft (KB)

2729.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 443.71 psig @ 3831.00 ft (KB)

Start Date: 2008.06.07

End Date: 2008.06.08

Start Time: 23:56:54

End Time: 09:18:52

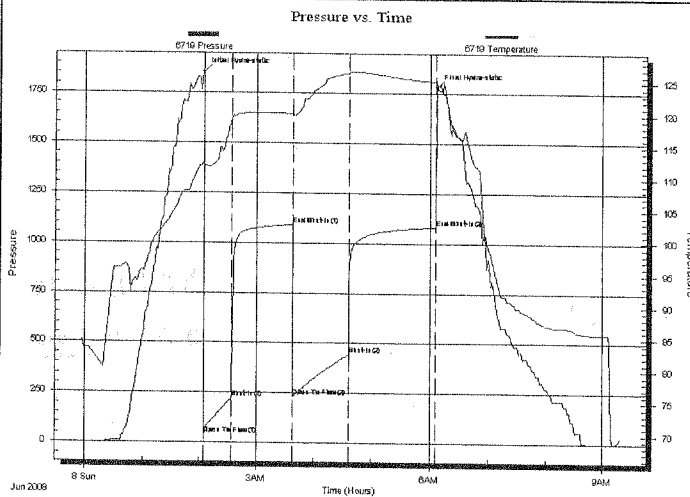
Capacity: 7000.00 psig

Last Calib.: 2008.06.08

Time On Btm: 2008.06.08 @ 02:04:22

Time Off Btm: 2008.06.08 @ 06:06:52

TEST COMMENT: IFP Strong blow BOB in 4-1/2 min
ISI Blow back BOB in 20 min
FFP Strong blow BOB in 7 min.
FSI Blow back BOB



PRESSURE SUMMARY

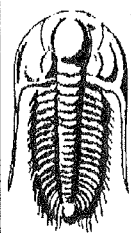
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.23	112.43	Initial Hydro-static
1	41.48	112.05	Open To Flow (1)
30	222.12	119.25	Shut-In (1)
94	1090.47	120.16	End Shut-In (1)
94	230.78	119.97	Open To Flow (2)
152	443.71	126.44	Shut-In (2)
242	1081.39	125.22	End Shut-In (2)
243	1779.85	125.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	McO 70%O 30%M	1.86
880.00	Free Oil	12.34
0.00	235' 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 Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32021

DST#: 1

Test Start: 2008.06.07 @ 23:56:52

Tool Information

Drill Pipe:	Length: 3640.00 ft	Diameter: 3.80 inches	Volume: 51.06 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 51.95 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3824.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	67.00 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			3804.00	
Shut In Tool	5.00			3809.00	
Hydraulic tool	5.00			3814.00	
Packer	5.00			3819.00	21.00 Bottom Of Top Packer
Packer	5.00			3824.00	
Stubb	1.00			3825.00	
Perforations	5.00			3830.00	
Recorder	0.00	8360	Outside	3830.00	
Change Over Sub	1.00			3831.00	
Recorder	0.00	6719	Inside	3831.00	
Blank Spacing	32.00			3863.00	
Change Over Sub	1.00			3864.00	
Perforations	3.00			3867.00	
Bullnose	3.00			3870.00	46.00 Bottom Packers & Anchor

Total Tool Length: 67.00

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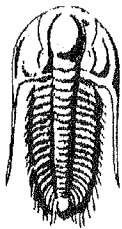
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WICHITA, KS**



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Alwhit #1-21

250 N Water Ste 300
Wichita KS 67202

21 9 27W Sheridan KS

Job Ticket: 32021

DST#: 1

ATTN: Jeff Christian

Test Start: 2008.06.07 @ 23:56:52

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: lb/gal

Viscosity: sec/qt

Water Loss: in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

32 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	McO 70%O 30%M	1.858
880.00	Free Oil	12.344
0.00	235' GIP	0.000

Total Length: 1130.00 ft

Total Volume: 14.202 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

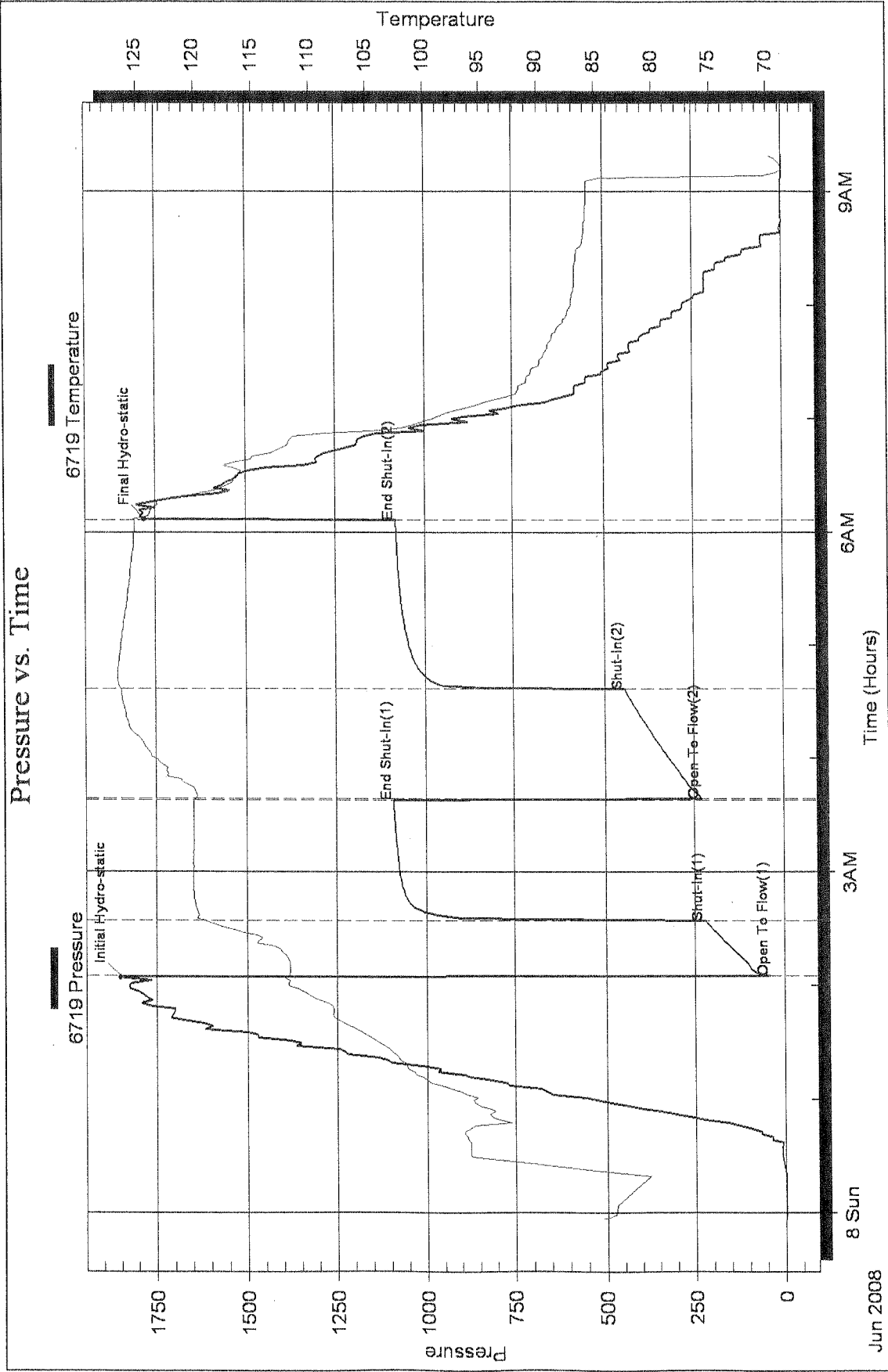
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



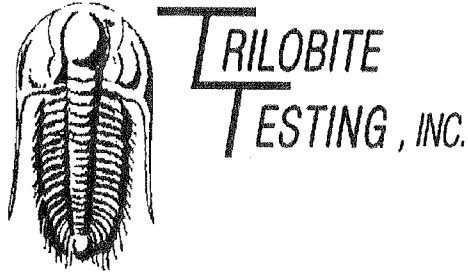
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WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

21 9 27W Sheridan KS

Alwhit #1-21

Start Date: 2008.06.08 @ 19:07:10

End Date: 2008.06.09 @ 04:32:40

Job Ticket #: 32022 DST #: 2

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WICHITA, KS

Trilobite Testing, Inc
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ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32022

DST#: 2

Test Start: 2008.06.08 @ 19:07:10

GENERAL INFORMATION:

Formation: **LKC-"C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:32:40

Time Test Ended: 04:32:40

Test Type: Conventional Bottom Hole

Tester: Jason Mclemore

Unit No: 32

Interval: 3881.00 ft (KB) To 3922.00 ft (KB) (TVD)

Total Depth: 3922.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2734.00 ft (KB)

2729.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 252.00 psig @ 3886.00 ft (KB)

Start Date: 2008.06.08

End Date: 2008.06.09

Start Time: 19:07:12

End Time: 04:32:40

Capacity: 7000.00 psig

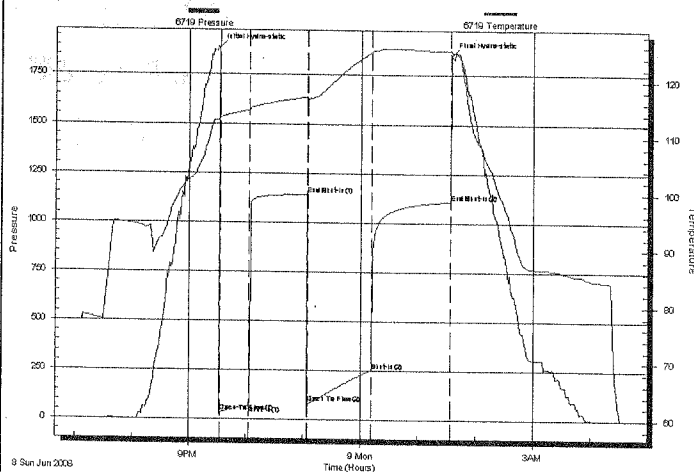
Last Calib.: 2008.06.09

Time On Btm: 2008.06.08 @ 21:31:40

Time Off Btm: 2008.06.09 @ 01:35:10

TEST COMMENT: IFP Fair blow BOB in 28 min.
ISI Dead
FFP Fair blow BOB in 20 min.
FSI Blow back BOB in 30 min.

Pressure vs. Time



PRESSURE SUMMARY

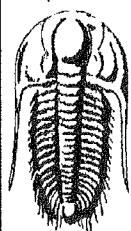
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.15	113.42	Initial Hydro-static
1	36.23	113.24	Open To Flow (1)
32	68.11	114.77	Shut-In(1)
92	1141.69	117.12	End Shut-In(1)
93	83.60	116.81	Open To Flow (2)
160	252.00	125.01	Shut-In(2)
243	1107.98	125.35	End Shut-In(2)
244	1851.43	125.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GsyMcO 10%G 50%O 40%M	0.59
520.00	GsyO 30%G 70%O	6.74
0.00	785' 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 Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32022

DST#: 2

Test Start: 2008.06.08 @ 19:07:10

Tool Information

Drill Pipe:	Length: 3702.00 ft	Diameter: 3.80 inches	Volume: 51.93 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 52.82 bbl		Tool Chased 2.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3881.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	62.00 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			3861.00	
Shut In Tool	5.00			3866.00	
Hydraulic tool	5.00			3871.00	
Packer	5.00			3876.00	21.00 Bottom Of Top Packer
Packer	5.00			3881.00	
Stubb	1.00			3882.00	
Perforations	3.00			3885.00	
Recorder	0.00	8360	Outside	3885.00	
Change Over Sub	1.00			3886.00	
Recorder	0.00	6719	Inside	3886.00	
Blank Spacing	32.00			3918.00	
Change Over Sub	1.00			3919.00	
Bullnose	3.00			3922.00	41.00 Bottom Packers & Anchor

Total Tool Length: 62.00

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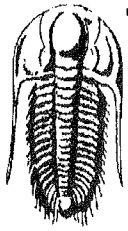
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WICHITA, KS**



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Alwhit #1-21

250 N Water Ste 300
Wichita KS 67202

21 9 27W Sheridan KS

Job Ticket: 32022

DST#: 2

ATTN: Jeff Christian

Test Start: 2008.06.08 @ 19:07:10

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.78 in³

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

32 deg API

ppm

ft
bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GsyMcO 10%G 50%O 40%M	0.590
520.00	GsyO 30%G 70%O	6.739
0.00	785' GIP	0.000

Total Length: 640.00 ft

Total Volume: 7.329 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

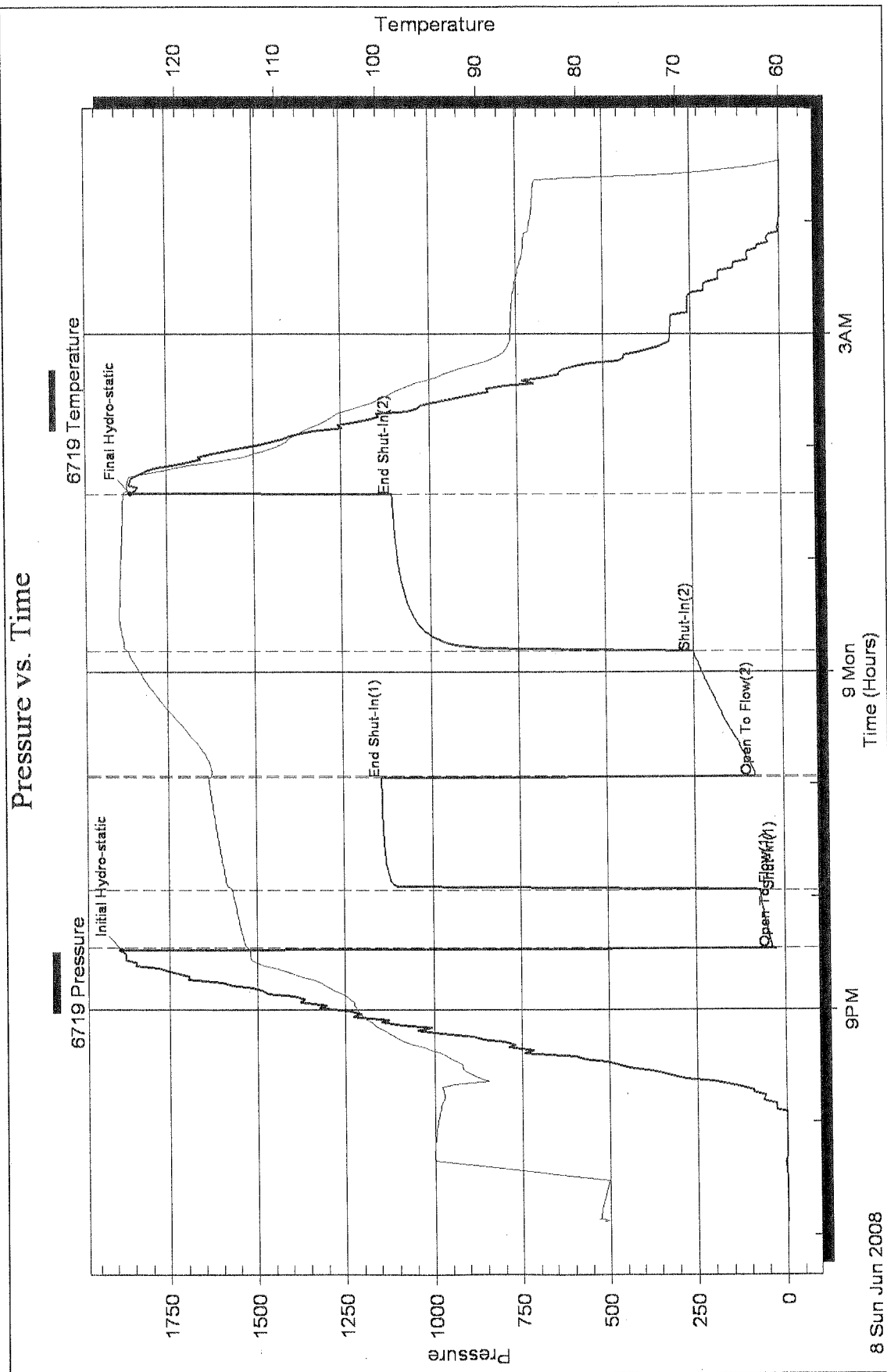
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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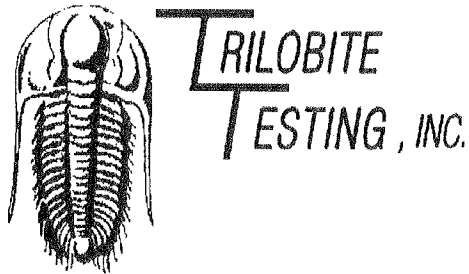
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WICHITA, KS

Ref. No: 32022

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

21 9 27W Sheridan KS

Alwhit #1-21

Start Date: 2008.06.09 @ 13:17:11

End Date: 2008.06.09 @ 22:53:41

Job Ticket #: 32023 DST #: 3

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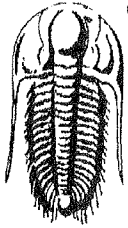
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CONSERVATION
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32023

DST#: 3

Test Start: 2008.06.09 @ 13:17:11

GENERAL INFORMATION:

Formation: **"E-F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:49:11

Time Test Ended: 22:53:41

Test Type: Conventional Bottom Hole

Tester: Jason Mclemore

Unit No: 32

Interval: 3922.00 ft (KB) To 3974.00 ft (KB) (TVD)

Total Depth: 3974.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2734.00 ft (KB)

2729.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 351.34 psig @ 3927.00 ft (KB)

Start Date: 2008.06.09

End Date: 2008.06.09

Start Time: 13:17:13

End Time: 22:53:41

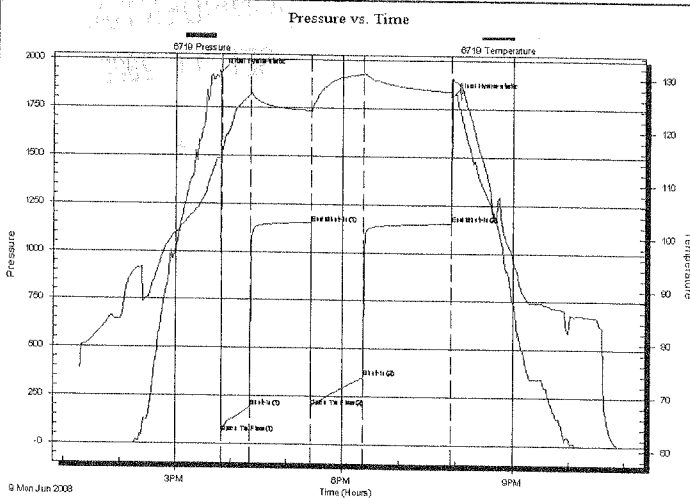
Capacity: 7000.00 psig

Last Calib.: 2008.06.09

Time On Btm: 2008.06.09 @ 15:48:11

Time Off Btm: 2008.06.09 @ 19:55:11

TEST COMMENT: IFF Good blow BOB in 11 min.
ISI Blow back built to 3/4 "
FFP Good blow BOB in 13 min.
FSI Blow back built to 1 "



PRESSURE SUMMARY

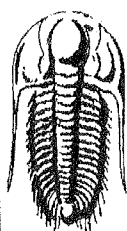
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1929.42	115.14	Initial Hydro-static
1	54.07	115.65	Open To Flow (1)
32	192.31	126.90	Shut-In(1)
98	1149.95	123.94	End Shut-In(1)
98	197.66	123.62	Open To Flow (2)
154	351.34	130.84	Shut-In(2)
247	1152.14	127.66	End Shut-In(2)
247	1812.95	126.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
675.00	MWw/O scum 1%O 94%W 5%M	7.82
25.00	Free Oil	0.35

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 Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32023

DST#: 3

Test Start: 2008.06.09 @ 13:17:11

Tool Information

Drill Pipe:	Length: 3733.00 ft	Diameter: 3.80 inches	Volume: 52.36 bbl	Tool Weight:	2000.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb	
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	65000.00 lb	
			Total Volume:	53.25 bbl	Tool Chased	2.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	50000.00 lb	
Depth to Top Packer:	3922.00 ft			Final	52000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	52.00 ft					
Tool Length:	73.00 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						

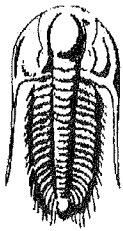
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3902.00	
Shut In Tool	5.00			3907.00	
Hydraulic tool	5.00			3912.00	
Packer	5.00			3917.00	21.00 Bottom Of Top Packer
Packer	5.00			3922.00	
Stubb	1.00			3923.00	
Perforations	3.00			3926.00	
Recorder	0.00	8360	Outside	3926.00	
Change Over Sub	1.00			3927.00	
Recorder	0.00	6719	Inside	3927.00	
Blank Spacing	32.00			3959.00	
Change Over Sub	1.00			3960.00	
Perforations	11.00			3971.00	
Bullnose	3.00			3974.00	52.00 Bottom Packers & Anchor

Total Tool Length: 73.00

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WICHITA, KS



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Alwhit #1-21

250 N Water Ste 300
Wichita KS 67202

21 9 27W Sheridan KS

Job Ticket: 32023

DST#: 3

ATTN: Jeff Christian

Test Start: 2008.06.09 @ 13:17:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

71000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
675.00	MMW/O scum 1%O 94%W 5%M	7.820
25.00	Free Oil	0.351

Total Length: 700.00 ft

Total Volume: 8.171 bbl

Num Fluid Samples: 0

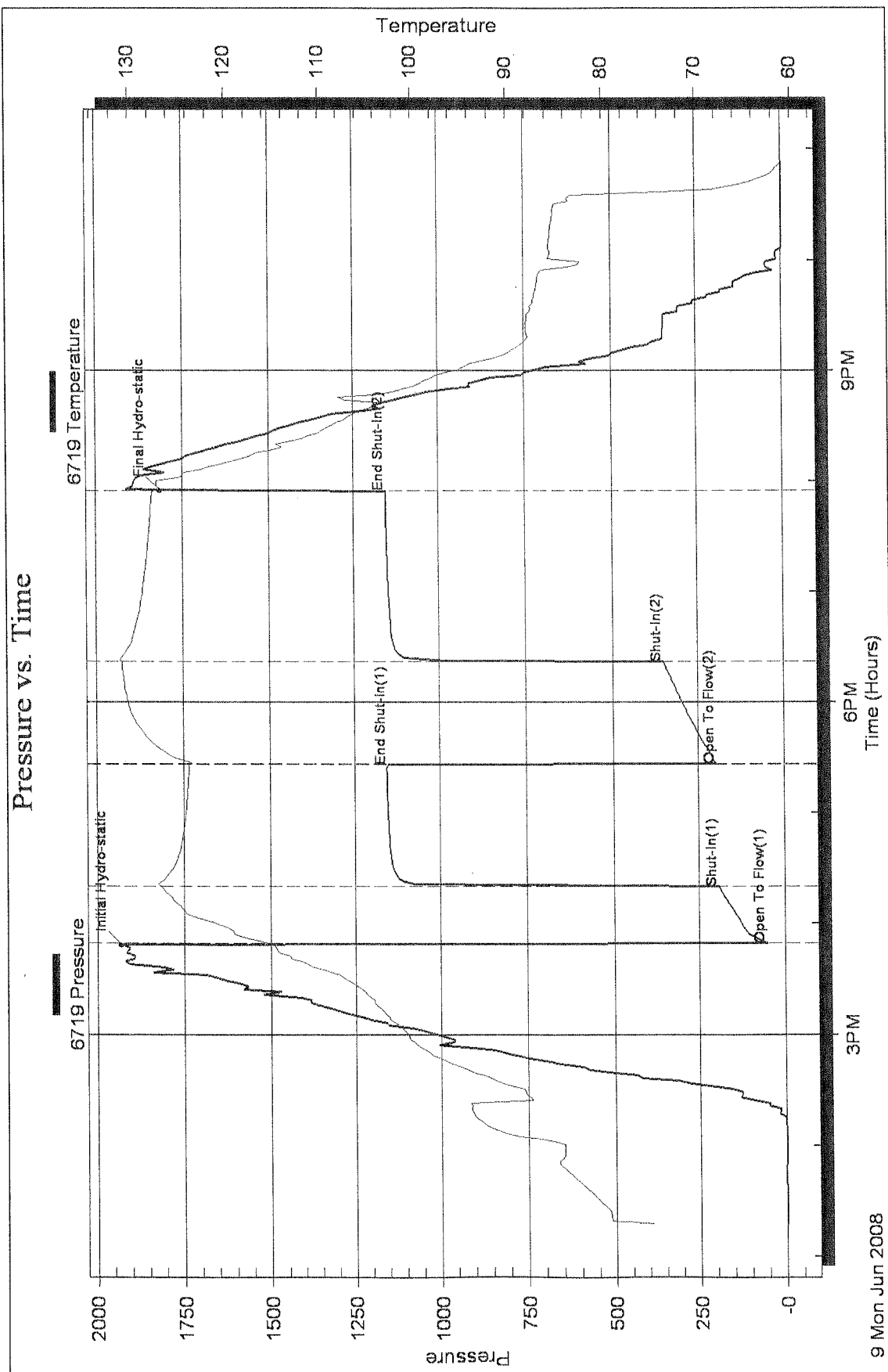
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Ref. No: 32023

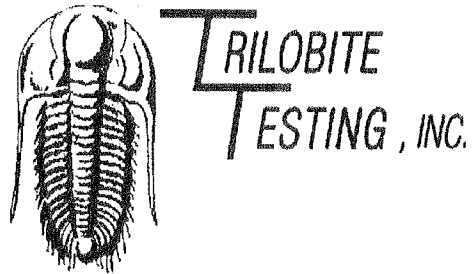
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WICHITA, KS

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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

21 9 27W Sheridan KS

Alwhit #1-21

Start Date: 2008.06.10 @ 08:36:23

End Date: 2008.06.10 @ 17:23:53

Job Ticket #: 32024 DST #: 4

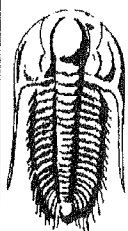
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WICHITA, KS



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DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32024

DST#: 4

Test Start: 2008.06.10 @ 08:36:23

GENERAL INFORMATION:

Formation: "H-I"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:08:53

Time Test Ended: 17:23:53

Interval: 3977.00 ft (KB) To 4032.00 ft (KB) (TVD)

Total Depth: 4032.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Jason Mclemore

Unit No: 32

Reference Elevations: 2734.00 ft (KB)

2729.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 129.35 psig @ 3982.00 ft (KB)

Start Date: 2008.06.10

End Date:

2008.06.10

Start Time: 08:36:25

End Time:

17:23:53

Capacity: 7000.00 psig

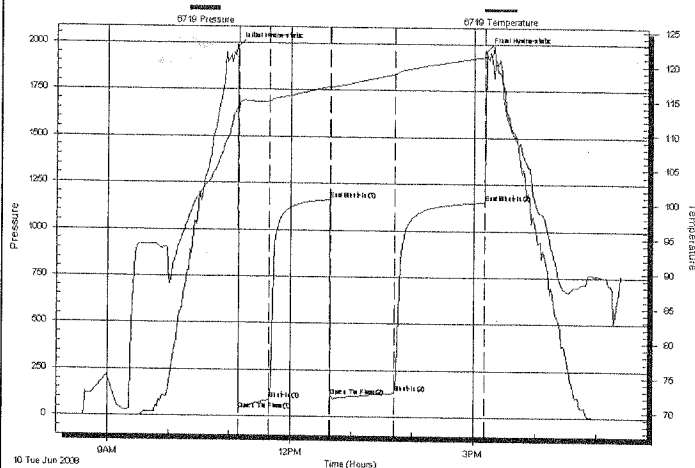
Last Calib.: 2008.06.10

Time On Btm: 2008.06.10 @ 11:08:23

Time Off Btm: 2008.06.10 @ 15:11:53

TEST COMMENT: IFP Fair blow built to 9-1/2 "
ISI Blow back built to 1/2 " in 20 min.
FFP Good blow BOB in 29 min.
FSI Blow back built to 1 " in 30 min.

Pressure vs. Time



PRESSURE SUMMARY

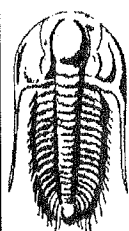
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1978.89	114.02	Initial Hydro-static
1	34.92	113.54	Open To Flow (1)
31	89.02	114.74	Shut-In (1)
91	1162.37	116.98	End Shut-In (1)
92	109.95	116.94	Open To Flow (2)
154	129.35	118.74	Shut-In (2)
243	1152.77	121.31	End Shut-In (2)
244	1961.53	121.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
21.00	VSOCMW 5%O 75%W 20%M	0.10
50.00	GOCMW 5%G 10%O 45%W 40%M	0.25
90.00	HOCM 40%O 60%M	0.44
45.00	GsyO 10%G 90%O	0.45
0.00	290 ' 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 Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32024

DST#: 4

Test Start: 2008.06.10 @ 08:36:23

Tool Information

Drill Pipe:	Length: 3798.00 ft	Diameter: 3.80 inches	Volume: 53.28 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	54.17 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3977.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	76.00 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			3957.00	
Shut In Tool	5.00			3962.00	
Hydraulic tool	5.00			3967.00	
Packer	5.00			3972.00	21.00 Bottom Of Top Packer
Packer	5.00			3977.00	
Stubb	1.00			3978.00	
Perforations	3.00			3981.00	
Recorder	0.00	8360	Outside	3981.00	
Change Over Sub	1.00			3982.00	
Recorder	0.00	6719	Inside	3982.00	
Blank Spacing	31.00			4013.00	
Change Over Sub	1.00			4014.00	
Perforations	15.00			4029.00	
Bullnose	3.00			4032.00	55.00 Bottom Packers & Anchor

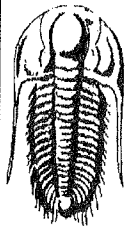
Total Tool Length: 76.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Alwhit #1-21

250 N Water Ste 300
Wichita KS 67202

21 9 27W Sheridan KS

Job Ticket: 32024

DST#: 4

ATTN: Jeff Christian

Test Start: 2008.06.10 @ 08:36:23

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 5.99 in³

Resistivity: ohm.m

Salinity: 1900.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

35 deg API

Water Salinity:

38000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
21.00	VSOCMW 5%O 75%W 20%M	0.103
50.00	GOCMW 5%G 10%O 45%W 40%M	0.246
90.00	HOCM 40%O 60%M	0.443
45.00	GsyO 10%G 90%O	0.449
0.00	290' GIP	0.000

Total Length: 206.00 ft

Total Volume: 1.241 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

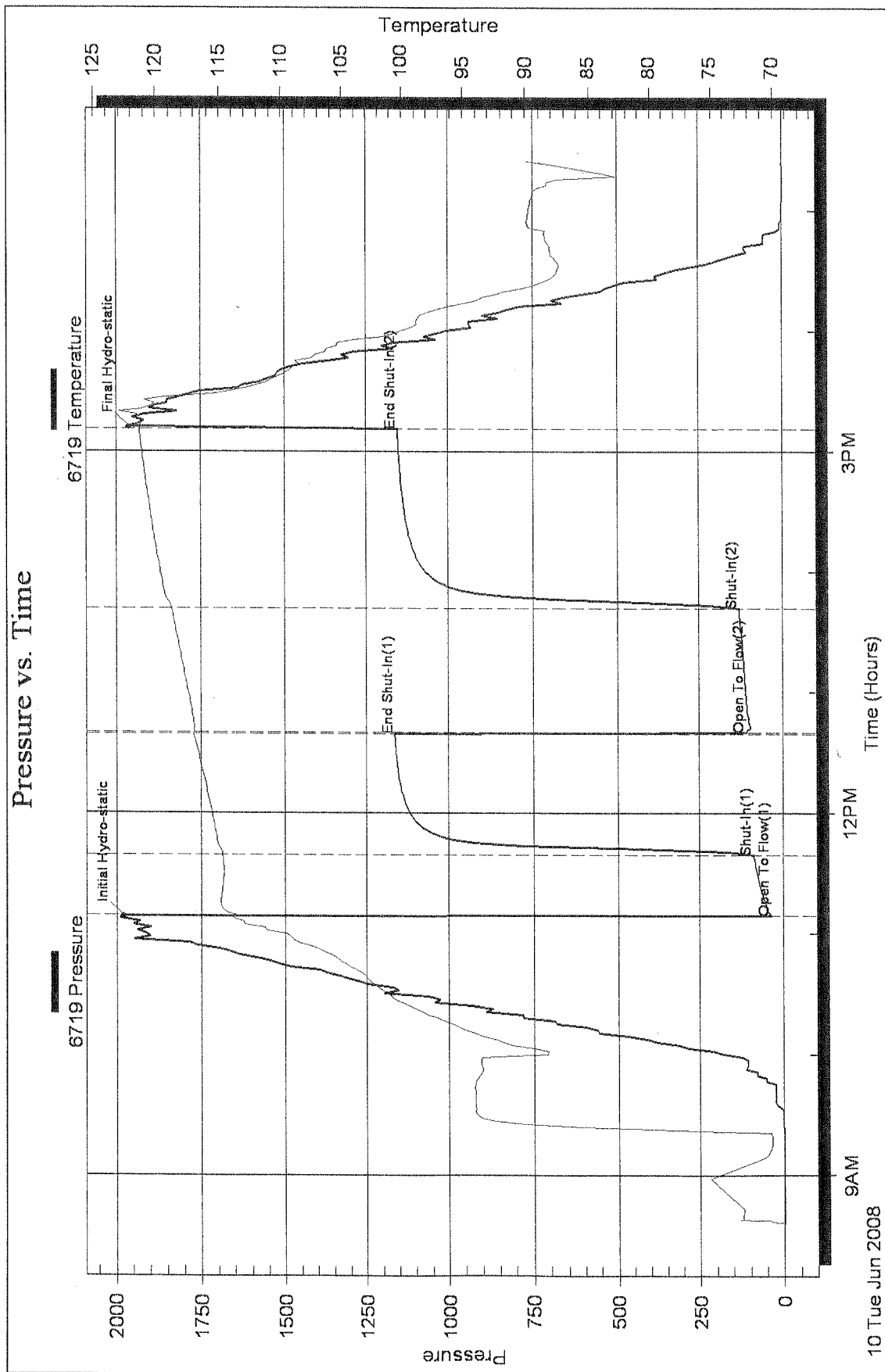
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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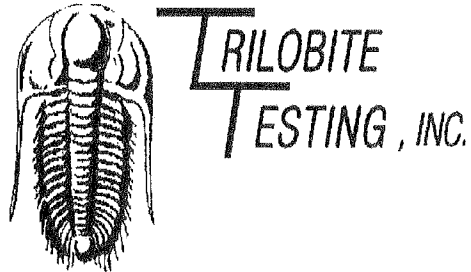
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WICHITA, KS

Ref. No: 32024

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

21 9 27W Sheridan KS

Alwhit #1-21

Start Date: 2008.06.11 @ 04:57:28

End Date: 2008.06.11 @ 14:44:28

Job Ticket #: 32025 DST #: 5

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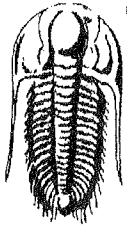
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CONSERVATION DIVISION
WICHITA, KS

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32025

DST#: 5

Test Start: 2008.06.11 @ 04:57:28

GENERAL INFORMATION:

Formation: **"J-K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:09:58

Time Test Ended: 14:44:28

Test Type: Conventional Bottom Hole

Tester: Jason Mclemore

Unit No: 32

Interval: **4024.00 ft (KB) To 4096.00 ft (KB) (TVD)**

Total Depth: 4096.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2734.00 ft (KB)

2729.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 573.61 psig @ 4029.00 ft (KB)

Start Date: 2008.06.11

End Date: 2008.06.11

Start Time: 04:57:30

End Time: 14:44:28

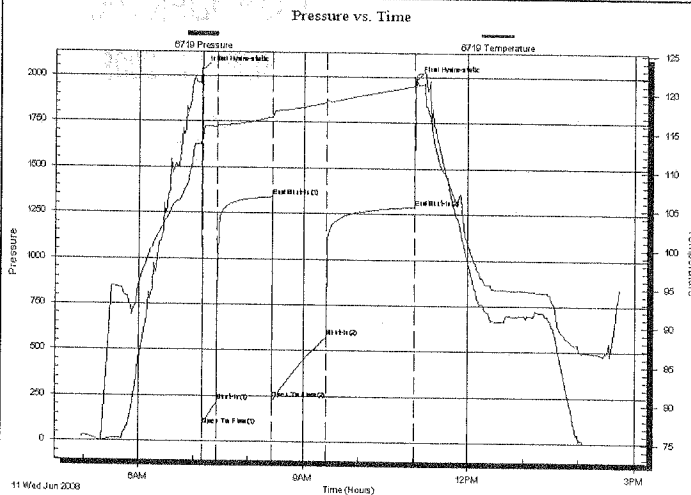
Capacity: 7000.00 psig

Last Calib.: 2008.06.11

Time On Btm: 2008.06.11 @ 07:09:28

Time Off Btm: 2008.06.11 @ 11:02:28

TEST COMMENT: IFP Strong blow BOB in 2 min.
ISI Blow back built to BOB in 8 min.
FFP Strong blow BOB in 3 min.
FSI Blow back built to BOB in 7 min.



PRESSURE SUMMARY

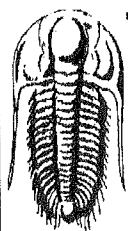
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2031.98	114.16	Initial Hydro-static
1	88.29	114.01	Open To Flow (1)
16	216.08	115.59	Shut-In(1)
76	1338.52	116.88	End Shut-In(1)
76	235.03	116.86	Open To Flow (2)
135	573.61	118.79	Shut-In(2)
232	1289.57	121.01	End Shut-In(2)
233	1982.29	122.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCGO 40%G 35%O 25%M	0.59
1388.00	GsyO 50%G 50%O	18.91
0.00	1900' 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 Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32025

DST#: 5

Test Start: 2008.06.11 @ 04:57:28

Tool Information

Drill Pipe:	Length: 3828.00 ft	Diameter: 3.80 inches	Volume: 53.70 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	54.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4024.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	72.00 ft				
Tool Length:	93.00 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			4004.00	
Shut In Tool	5.00			4009.00	
Hydraulic tool	5.00			4014.00	
Packer	5.00			4019.00	21.00 Bottom Of Top Packer
Packer	5.00			4024.00	
Stubb	1.00			4025.00	
Perforations	3.00			4028.00	
Recorder	0.00	8360	Outside	4028.00	
Change Over Sub	1.00			4029.00	
Recorder	0.00	6719	Inside	4029.00	
Blank Spacing	32.00			4061.00	
Change Over Sub	1.00			4062.00	
Perforations	31.00			4093.00	
Bullnose	3.00			4096.00	72.00 Bottom Packers & Anchor

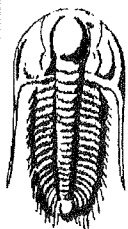
Total Tool Length: 93.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Alwhit #1-21

250 N Water Ste 300
Wichita KS 67202

21 9 27W Sheridan KS

Job Ticket: 32025

DST#: 5

ATTN: Jeff Christian

Test Start: 2008.06.11 @ 04:57:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCGO 40%G 35%O 25%M	0.590
1388.00	GsyO 50%G 50%O	18.914
0.00	1900' GIP	0.000

Total Length: 1508.00 ft

Total Volume: 19.504 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

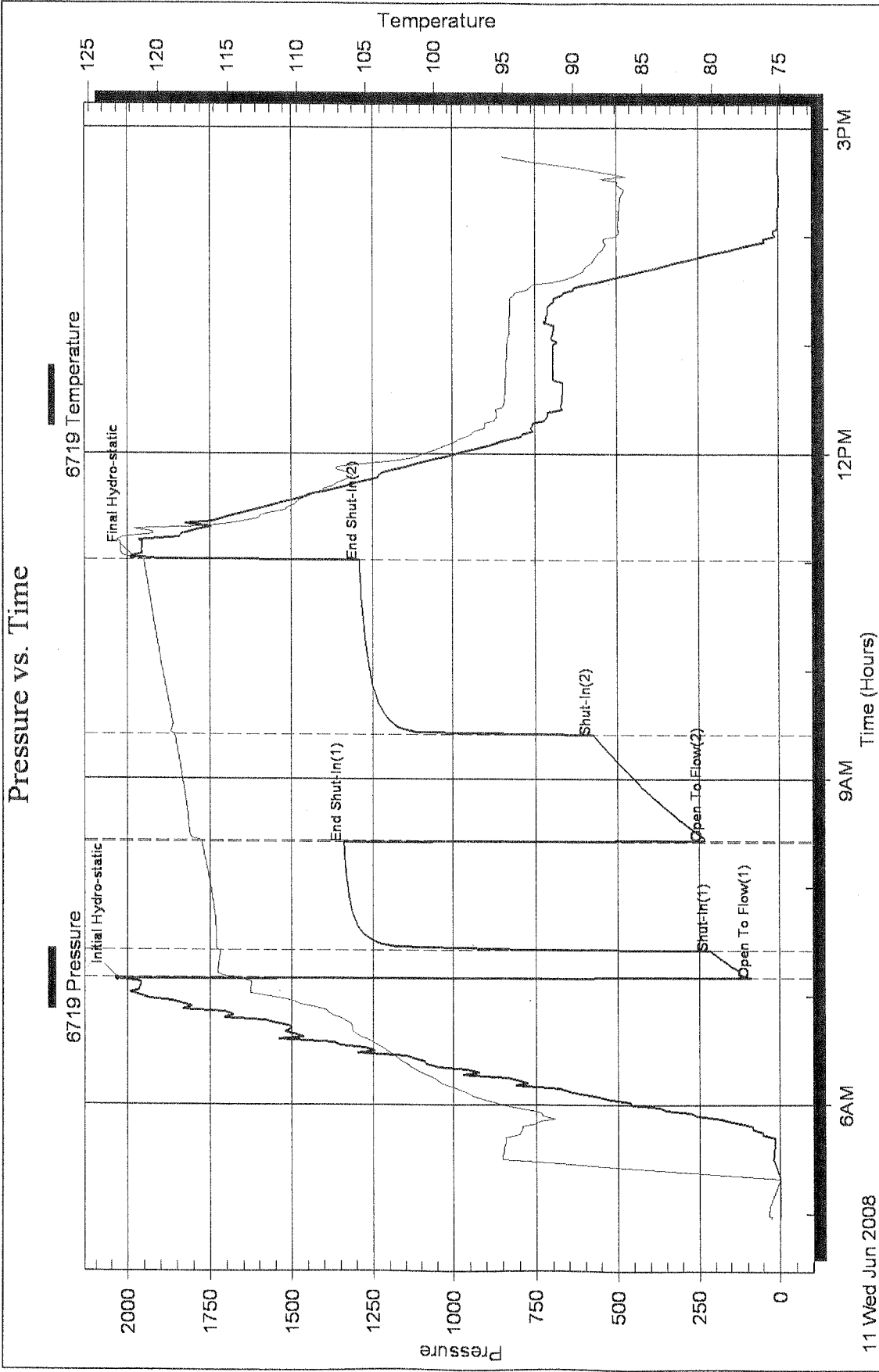
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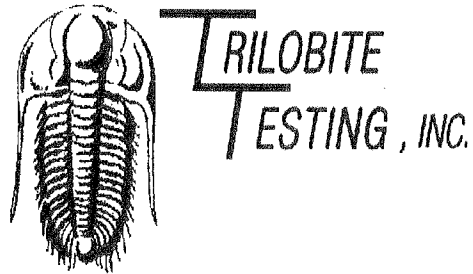
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

21 9 27W Sheridan KS

Alwhit #1-21

Start Date: 2008.06.12 @ 01:04:50

End Date: 2008.06.12 @ 07:01:20

Job Ticket #: 32776 DST #: 6

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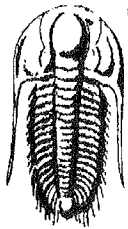
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WICHITA, KS

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS.

Job Ticket: 32776

DST#: 6

Test Start: 2008.06.12 @ 01:04:50

GENERAL INFORMATION:

Formation: **Pawnee-Ft.Scott-Cher**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 07:01:20

Test Type: Conventional Bottom Hole

Tester: Jason Mclemore

Unit No: 32

Interval: **4218.00 ft (KB) To 4371.00 ft (KB) (TVD)**

Total Depth: 4371.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2734.00 ft (KB)

2729.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: psig @ 4221.00 ft (KB)

Start Date: 2008.06.12

End Date:

2008.06.12

Capacity: 7000.00 psig

Last Calib.: 2008.06.12

Start Time: 01:04:52

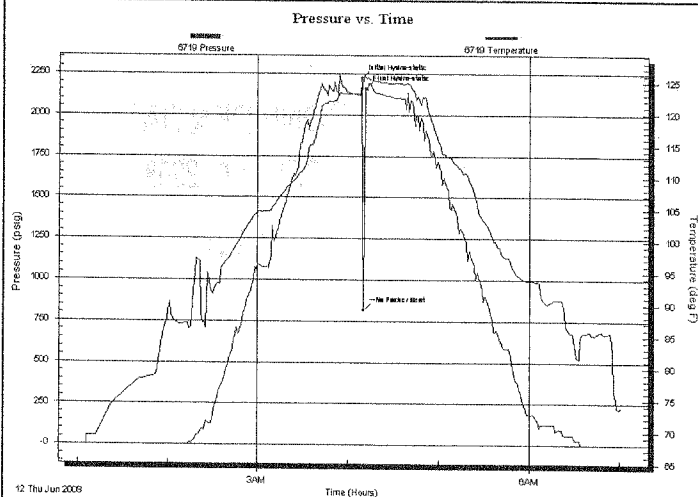
End Time:

07:01:20

Time On Btm: 2008.06.12 @ 04:08:50

Time Off Btm: 2008.06.12 @ 04:11:20

TEST COMMENT: IFP 25 ' fill on bottom worktool some open tool Slid 3 ' No Packer Seat pull tool



PRESSURE SUMMARY

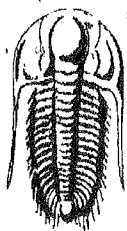
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.47	123.32	Initial Hydro-static
1	814.22	125.50	--No Packer Seat
3	2158.44	125.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
540.00	DM	5.93

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Jeff Christian

Alwhit #1-21

21 9 27W Sheridan KS

Job Ticket: 32776

DST#: 6

Test Start: 2008.06.12 @ 01:04:50

Tool Information

Drill Pipe:	Length: 4048.00 ft	Diameter: 3.80 inches	Volume: 56.78 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	57.67 bbl	Tool Chased	3.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4218.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	153.00 ft				
Tool Length:	174.00 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			4198.00	
Shut In Tool	5.00			4203.00	
Hydraulic tool	5.00			4208.00	
Packer	5.00			4213.00	21.00 Bottom Of Top Packer
Packer	5.00			4218.00	
Stubb	1.00			4219.00	
Perforations	1.00			4220.00	
Recorder	0.00	8360	Outside	4220.00	
Change Over Sub	1.00			4221.00	
Recorder	0.00	6719	Inside	4221.00	
Blank Spacing	126.00			4347.00	
Change Over Sub	1.00			4348.00	
Perforations	20.00			4368.00	
Bullnose	3.00			4371.00	153.00 Bottom Packers & Anchor

Total Tool Length: 174.00

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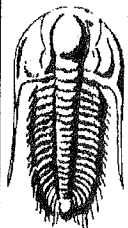
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WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Alwhit #1-21

250 N Water Ste 300
Wichita KS 67202

21 9 27W Sheridan KS

Job Ticket: 32776

DST#: 6

ATTN: Jeff Christian

Test Start: 2008.06.12 @ 01:04:50

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 5.99 in³

Resistivity: ohm.m

Salinity: 1600.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
540.00	DM	5.926

Total Length: 540.00 ft

Total Volume: 5.926 bbl

Num Fluid Samples: 0

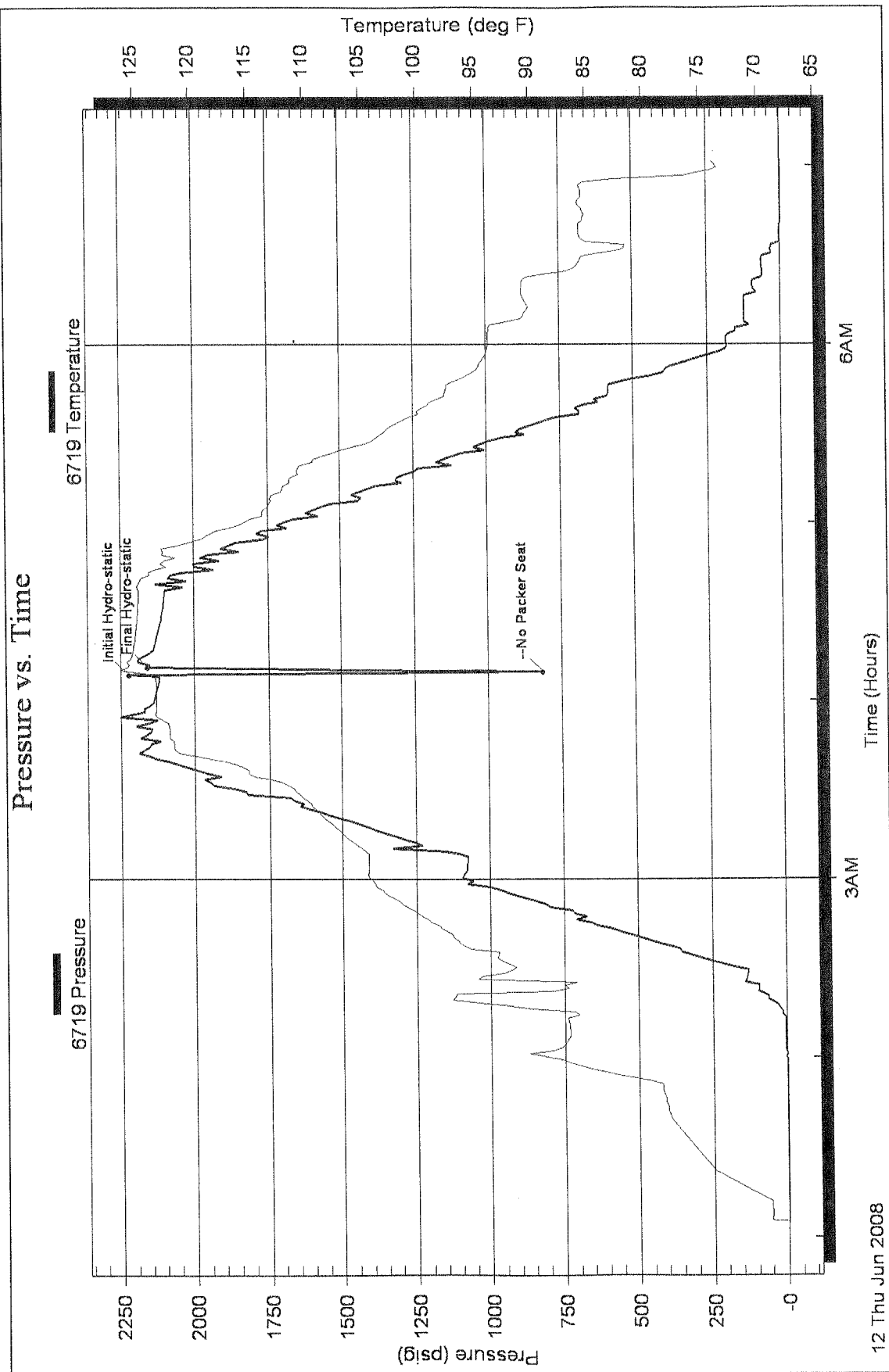
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Ref. No: 32776

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