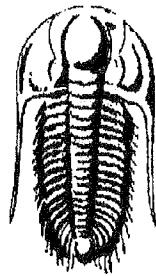


15-163-23681

5-95-19w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

CONFIDENTIAL
JUN 05 2008
KCC

ATTN: David Doyel

5 9S 18W Rooks KS

Gertude # 2-5

Start Date: 2008.02.11 @ 11:53:10

End Date: 2008.02.11 @ 14:18:35

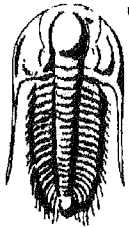
Job Ticket #: 31809 DST #: 1

RECEIVED
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JUN 05 2008

CONSERVATION DIVISION
WICHITA, KS

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: David Doyel

Gertude # 2-5

5 9S 18W Rooks KS

Job Ticket: 31809

DST#: 1

Test Start: 2008.02.11 @ 11:53:10

GENERAL INFORMATION:

Formation: **Toronto-LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 14:18:35

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3192.00 ft (KB) To 3300.00 ft (KB) (TVD)**

Total Depth: 3300.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2062.00 ft (KB)

2057.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: psig @ 3202.01 ft (KB)

Start Date: 2008.02.11

End Date:

2008.02.11

Capacity:

7000.00 psig

Start Time: 11:53:10

End Time:

14:18:35

Last Calib.:

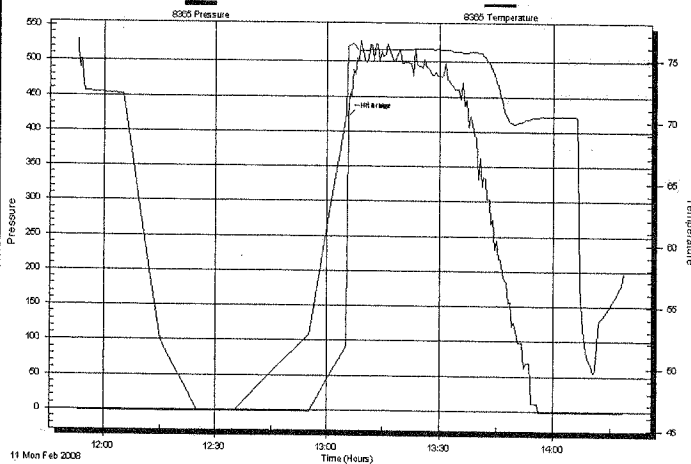
1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: Hit Bridge @ approx 1020 ' would not go thru
misrun

Pressure vs. Time



PRESSURE SUMMARY

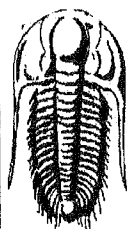
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	421.09	76.04	--Hit Bridge

Recovery

Length (ft)	Description	Volume (bbl)
20.00	M	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: David Doyel

Gertude # 2-5

5 9S 18W Rooks KS

Job Ticket: 31809

DST#: 1

Test Start: 2008.02.11 @ 11:53:10

Tool Information

Drill Pipe:	Length: 3057.00 ft	Diameter: 3.80 inches	Volume: 42.88 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:	80000.00 lb
		Total Volume:	43.47 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:	3192.00 ft			Final	30000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	108.02 ft				
Tool Length:	131.02 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			3170.00	
Shut In Tool	5.00			3175.00	
Hydraulic tool	5.00			3180.00	
Safety Joint	2.00			3182.00	
Packer	5.00			3187.00	23.00 Bottom Of Top Packer
Packer	5.00			3192.00	
Stubb	1.00			3193.00	
Perforations	9.00			3202.00	
Recorder	0.01	8365	Inside	3202.01	
Recorder	0.01	8371	Outside	3202.02	
Blank Spacing	95.00			3297.02	
Bullnose	3.00			3300.02	108.02 Bottom Packers & Anchor

Total Tool Length: 131.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Gertude # 2-5

250 N Water Ste 300
Wichita KS 67202-1216

5 9S 18W Rooks KS

Job Ticket: 31809

DST#: 1

ATTN: David Doyel

Test Start: 2008.02.11 @ 11:53:10

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	M	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

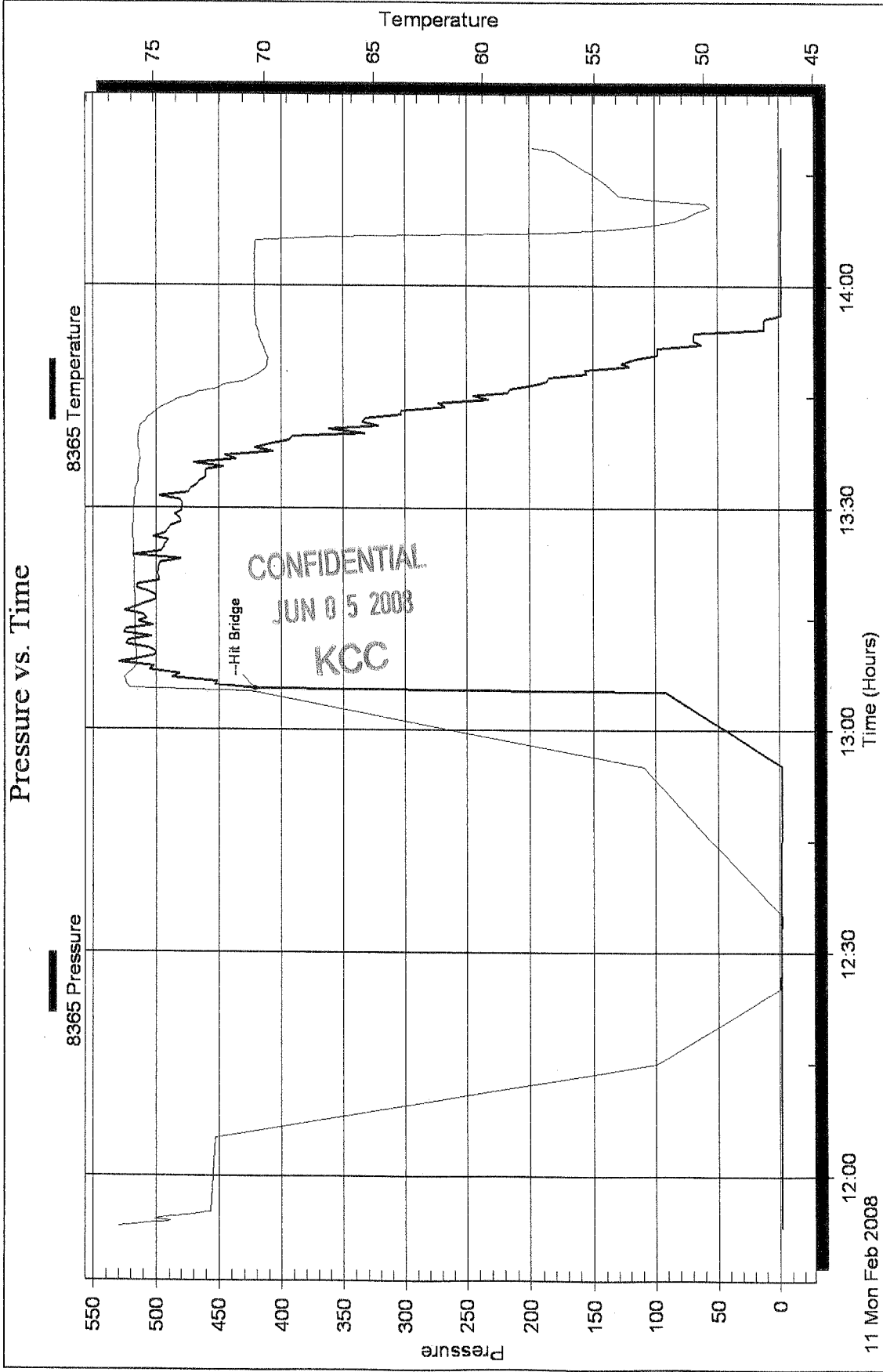
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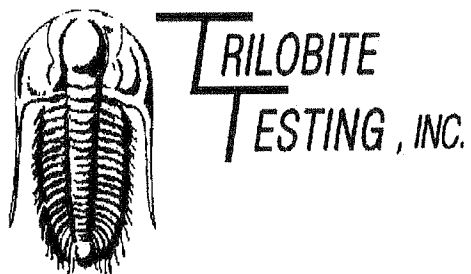
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

CONFIDENTIAL

JUN 05 2008

KCC

ATTN: David Doyel

5 9S 18W Rooks KS

Gertude # 2-5

Start Date: 2008.02.11 @ 21:17:02

End Date: 2008.02.12 @ 06:01:27

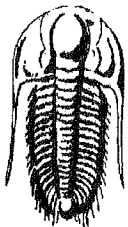
Job Ticket #: 31810 DST #: 2

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

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 05 2008

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: David Doyel

Gertude # 2-5

5 9S 18W Rooks KS

Job Ticket: 31810

DST#: 2

Test Start: 2008.02.11 @ 21:17:02

GENERAL INFORMATION:

Formation: **Tor-LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:34:57

Time Test Ended: 06:01:27

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3192.00 ft (KB) To 3300.00 ft (KB) (TVD)**

Total Depth: 3300.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2062.00 ft (KB)

2057.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 316.94 psig @ 3202.01 ft (KB)

Start Date: 2008.02.11

End Date:

2008.02.12

Capacity: 7000.00 psig

Start Time: 21:17:02

End Time:

06:01:27

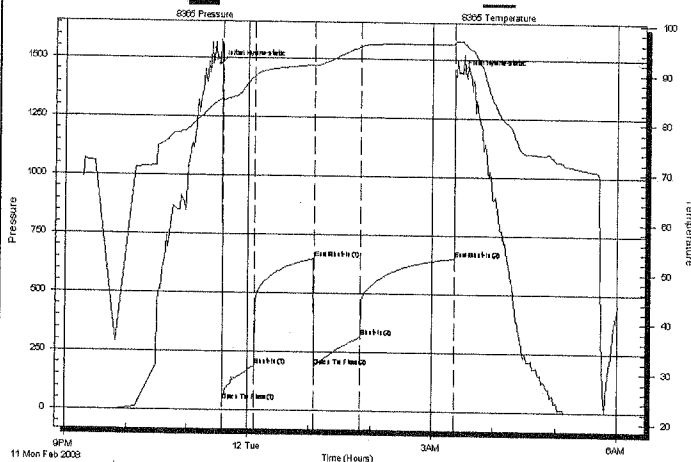
Last Calib.: 2008.02.12

Time On Btm: 2008.02.11 @ 23:31:57

Time Off Btm: 2008.02.12 @ 03:26:56

TEST COMMENT: IFP Strg bl in 7 min
FFP Wk bl thru-out 1/4 " to 1 1/4 " bl
Times 30 60 45 90
No bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1473.42	84.58	Initial Hydro-static
3	36.16	84.43	Open To Flow (1)
34	188.45	89.35	Shut-In (1)
93	647.53	91.72	End Shut-In (1)
93	188.65	91.56	Open To Flow (2)
138	316.94	95.41	Shut-In (2)
230	652.49	96.15	End Shut-In (2)
235	1444.87	96.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	SOCW 1%O 99%W	2.27
120.00	OCMV 5%O 5%M 90%W	1.68
180.00	O&GCMV 5%G 10%O 20%M 65%W	2.52
90.00	HO&GCMV 10%G 20%O 20%M 50%W	1.26
0.00	90' GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/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 67202-1216

ATTN: David Doyel

Gertude # 2-5

5 9S 18W Rooks KS

Job Ticket: 31810

DST#: 2

Test Start: 2008.02.11 @ 21:17:02

Tool Information

Drill Pipe:	Length: 3057.00 ft	Diameter: 3.80 inches	Volume: 42.88 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: 65000.00 lb
			Total Volume: 43.47 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3192.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.02 ft			
Tool Length:	131.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

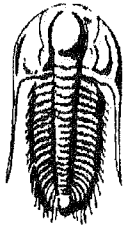
Tool Comments:

CONFIDENTIAL
JUN 05 2008

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3170.00	
Shut In Tool	5.00			3175.00	
Hydraulic tool	5.00			3180.00	
Safety Joint	2.00			3182.00	
Packer	5.00			3187.00	23.00 Bottom Of Top Packer
Packer	5.00			3192.00	
Stubb	1.00			3193.00	
Perforations	9.00			3202.00	
Recorder	0.01	8365	Inside	3202.01	
Recorder	0.01	8371	Outside	3202.02	
Blank Spacing	95.00			3297.02	
Bullnose	3.00			3300.02	108.02 Bottom Packers & Anchor

Total Tool Length: 131.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Gertude # 2-5

250 N Water Ste 300
Wichita KS 67202-1216

5 9S 18W Rooks KS

Job Ticket: 31810

DST#: 2

ATTN: David Doyel

Test Start: 2008.02.11 @ 21:17:02

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity: 65000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	SOCW 1%O 99%W	2.273
120.00	OCMW 5%O 5%M 90%W	1.683
180.00	O&GCMW 5%G 10%O 20%M 65%W	2.525
90.00	HO&GCMW 10%G 20%O 20%M 50%W	1.262
0.00	90' GIP	0.000

Total Length: 630.00 ft Total Volume: 7.743 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.16 @ 50F

Serial #: 8365

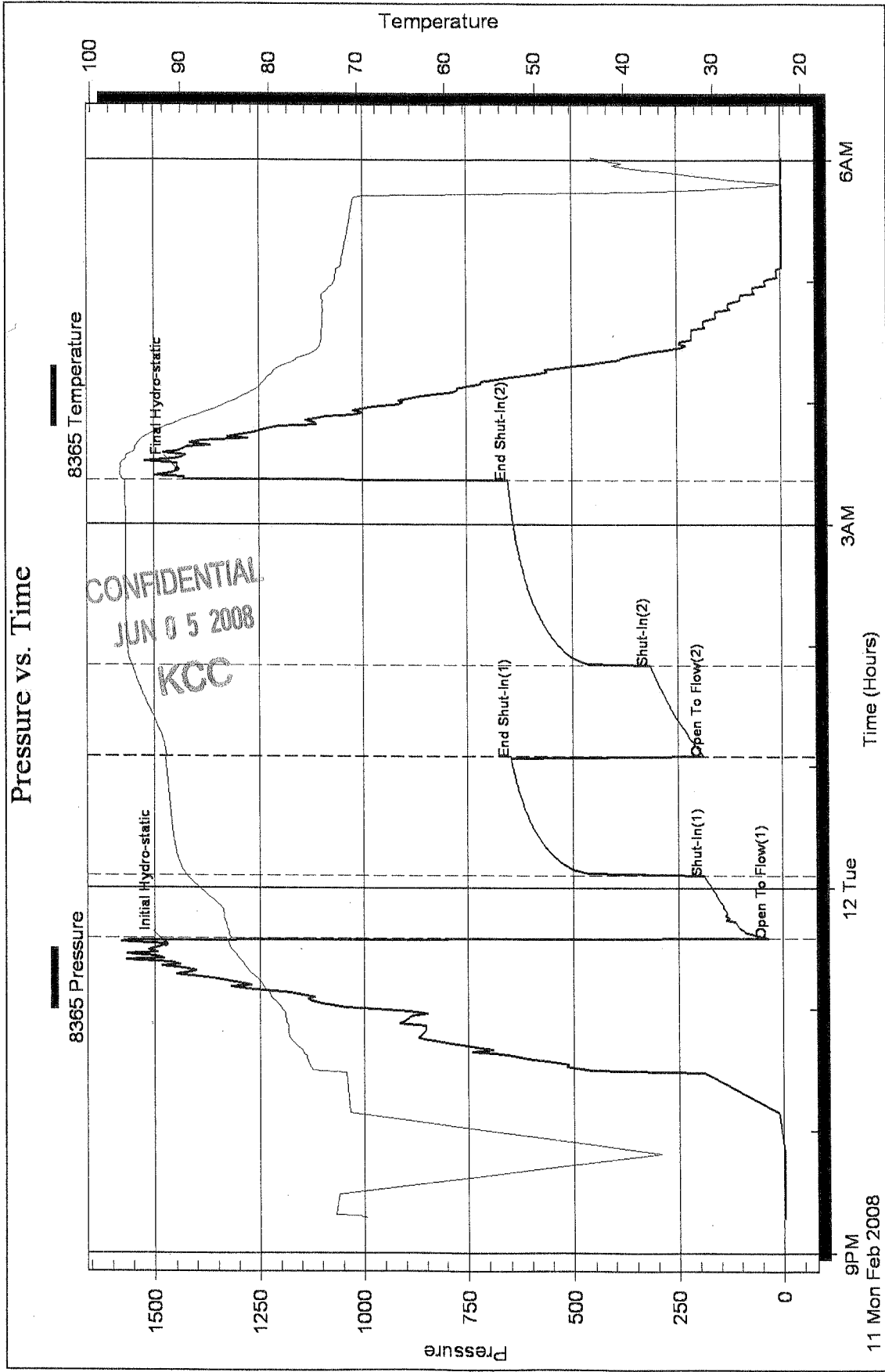
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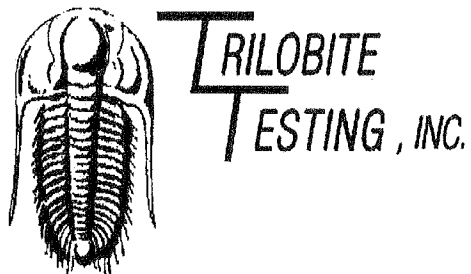
Murfin Drilling Co Inc

5 9S 18W Rooks KS

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

CONFIDENTIAL
JUN 05 2008
KCC

ATTN: David Doyel

5 9S 18W Rooks KS

Gertude # 2-5

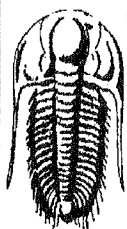
Start Date: 2008.02.12 @ 16:12:18

End Date: 2008.02.13 @ 00:18:48

Job Ticket #: 31811 DST #: 3

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

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JUN 05 2008
CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: David Doyel

Gertude # 2-5

5 9S 18W Rocks KS

Job Ticket: 31811

DST#: 3

Test Start: 2008.02.12 @ 16:12:18

GENERAL INFORMATION:

Formation: **LKC E-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:57:18

Time Test Ended: 00:18:48

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: 3298.00 ft (KB) To 3350.00 ft (KB) (TVD)

Total Depth: 3350.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2062.00 ft (KB)

2057.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: 689.72 psig @ 3300.01 ft (KB)

Start Date: 2008.02.12

End Date:

2008.02.13

Capacity: 7000.00 psig

Last Calib.: 2008.02.13

Start Time: 16:12:23

End Time:

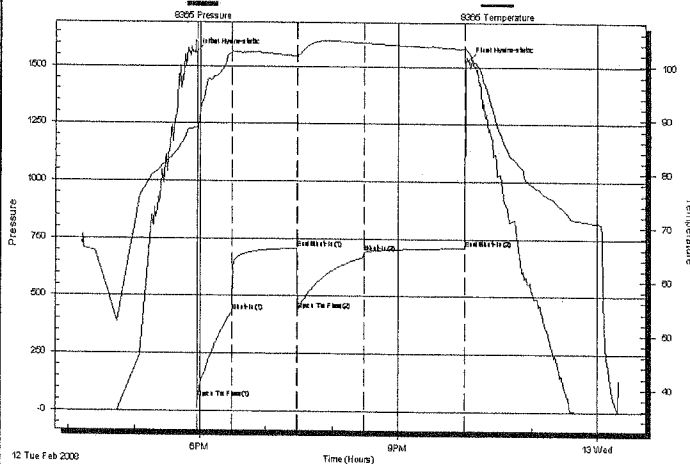
00:18:47

Time On Btm: 2008.02.12 @ 17:55:18

Time Off Btm: 2008.02.12 @ 22:03:18

TEST COMMENT: IFP Strg bl in 2 min
FFP Strg bl in 4 min
Times 30 60 60 90
Surface bl bk

Pressure vs. Time



PRESSURE SUMMARY

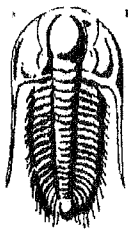
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1557.72	88.47	Initial Hydro-static
2	54.44	87.83	Open To Flow (1)
34	432.08	102.62	Shut-In (1)
92	708.66	101.89	End Shut-In (1)
93	440.20	101.75	Open To Flow (2)
154	689.72	104.36	Shut-In (2)
245	710.89	103.32	End Shut-In (2)
248	1526.15	102.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1200.00	Water	15.74
105.00	MW 15%W 85%W	1.47

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Gertude # 2-5

250 N Water Ste 300
Wichita KS 67202-1216

5 9S 18W Rooks KS

Job Ticket: 31811

DST#: 3

ATTN: David Doyel

Test Start: 2008.02.12 @ 16:12:18

Tool Information

Drill Pipe:	Length: 3182.00 ft	Diameter: 3.80 inches	Volume: 44.64 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:	70000.00 lb
		Total Volume:	45.23 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3298.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.02 ft				
Tool Length:	75.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		

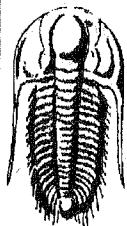
Tool Comments:

CONFIDENTIAL
JUN 05 2008

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3276.00	
Shut In Tool	5.00			3281.00	
Hydraulic tool	5.00			3286.00	
Safety Joint	2.00			3288.00	
Packer	5.00			3293.00	23.00 Bottom Of Top Packer
Packer	5.00			3298.00	
Stubb	1.00			3299.00	
Perforations	1.00			3300.00	
Recorder	0.01	8365	Inside	3300.01	
Recorder	0.01	8371	Outside	3300.02	
Blank Spacing	33.00			3333.02	
Perforations	14.00			3347.02	
Bullnose	3.00			3350.02	52.02 Bottom Packers & Anchor

Total Tool Length: 75.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Gertude # 2-5

250 N Water Ste 300
Wichita KS 67202-1216

5 9S 18W Rooks KS

Job Ticket: 31811

DST#: 3

ATTN: David Doyel

Test Start: 2008.02.12 @ 16:12:18

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.59 in³

Resistivity: ohm.m

Salinity: 4200.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 76000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1200.00	Water	15.740
105.00	MW 15%W 85%W	1.473

Total Length: 1305.00 ft Total Volume: 17.213 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

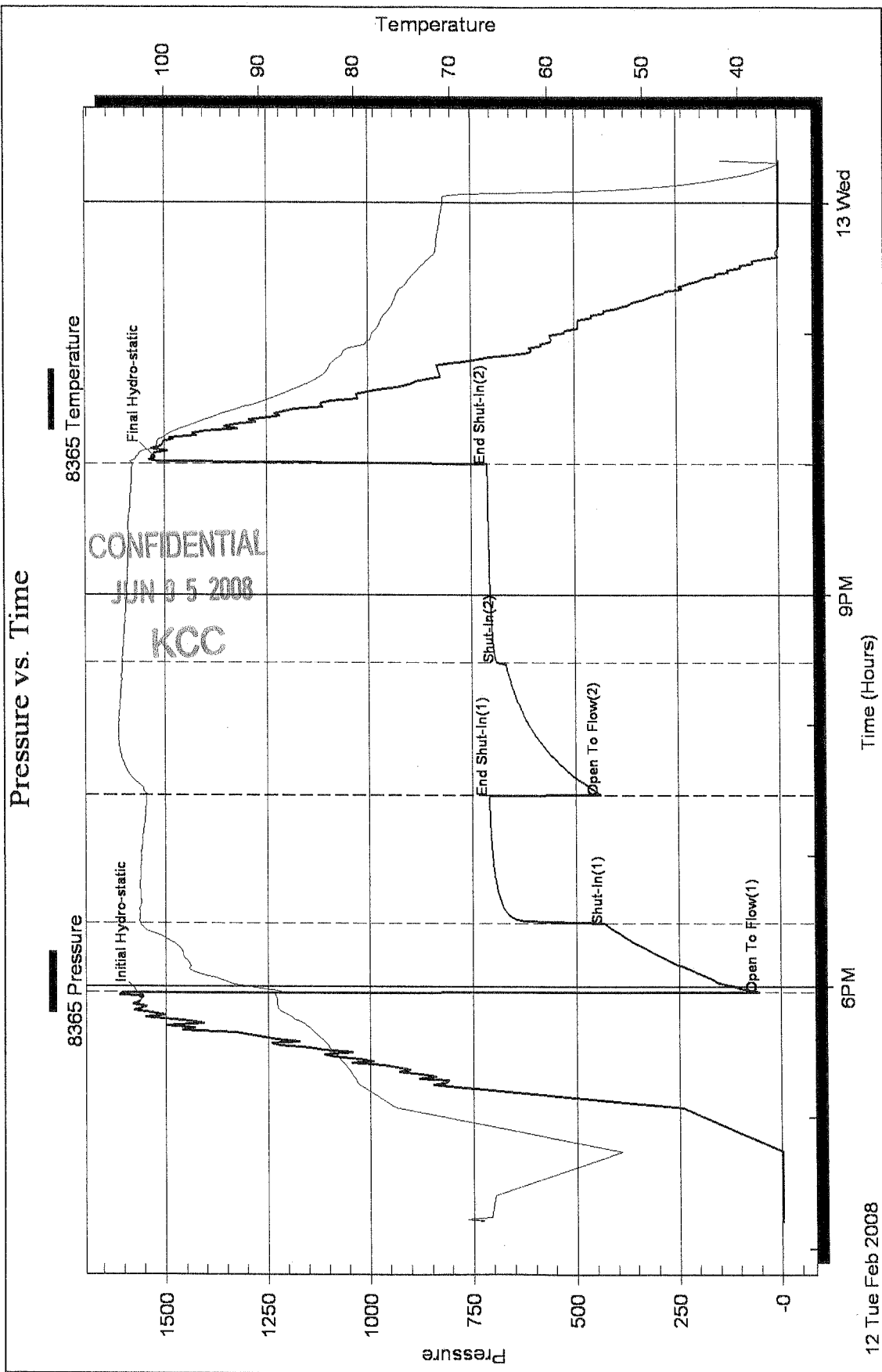
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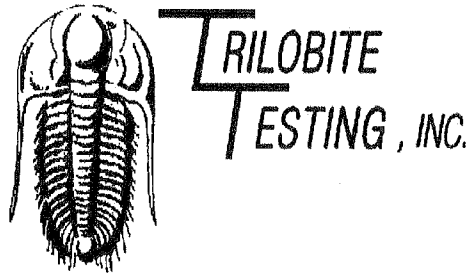
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11 @ 64F

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

CONFIDENTIAL

JUN 05 2008

KCC

ATTN: David Doyel

5 9S 18W Rooks KS

Gertude # 2-5

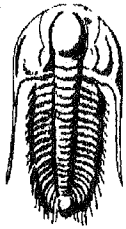
Start Date: 2008.02.13 @ 13:27:16

End Date: 2008.02.13 @ 20:17:40

Job Ticket #: 31812 DST #: 4

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

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JUN 05 2008
CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: David Doyel

Gertude # 2-5

5 9S 18W Rocks KS

Job Ticket: 31812

DST#: 4

Test Start: 2008.02.13 @ 13:27:16

GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:51:11

Time Test Ended: 20:17:40

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3352.00 ft (KB) To 3460.00 ft (KB) (TVD)**

Total Depth: 3460.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2062.00 ft (KB)

2057.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 51.41 psig @ 3362.01 ft (KB)

Start Date: 2008.02.13

End Date:

2008.02.13

Start Time: 13:27:16

End Time:

20:17:40

Capacity: 7000.00 psig

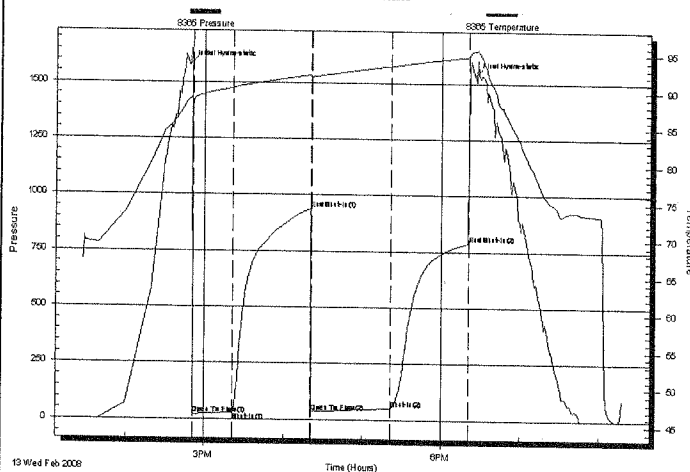
Last Calib.: 2008.02.13

Time On Btm: 2008.02.13 @ 14:48:41

Time Off Btm: 2008.02.13 @ 18:25:40

TEST COMMENT: IFP Wk bl thru-out 1/2 " to 1 1/2 " bl
FFP Wk bl thru-out 1/4 " bl
Times 30 60 60 60

Pressure vs. Time



PRESSURE SUMMARY

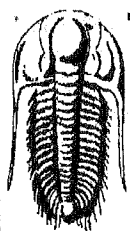
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.40	88.95	Initial Hydro-static
3	19.28	88.60	Open To Flow (1)
33	31.44	90.44	Shut-In(1)
92	938.53	92.19	End Shut-In(1)
92	35.66	91.80	Open To Flow (2)
153	51.41	93.43	Shut-In(2)
212	788.06	94.71	End Shut-In(2)
217	1533.45	95.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.02
60.00	OCM 15%O 85%M	0.30

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMcf/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 67202-1216

ATTN: David Doyel

Gertude # 2-5
5 9S 18W Rooks KS
Job Ticket: 31812 **DST#: 4**
Test Start: 2008.02.13 @ 13:27:16

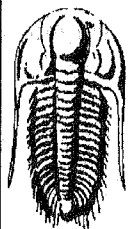
Tool Information

Drill Pipe:	Length: 3213.00 ft	Diameter: 3.80 inches	Volume: 45.07 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: 65000.00 lb
		Total Volume: 45.66 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3352.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.02 ft			
Tool Length:	131.02 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			3330.00	
Shut In Tool	5.00			3335.00	
Hydraulic tool	5.00			3340.00	
Safety Joint	2.00			3342.00	
Packer	5.00			3347.00	23.00 Bottom Of Top Packer
Packer	5.00			3352.00	
Stubb	1.00			3353.00	
Perforations	9.00			3362.00	
Recorder	0.01	8365	Inside	3362.01	
Recorder	0.01	8371	Outside	3362.02	
Blank Spacing	95.00			3457.02	
Bullnose	3.00			3460.02	108.02 Bottom Packers & Anchor

Total Tool Length: 131.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Gertude # 2-5

250 N Water Ste 300
Wichita KS 67202-1216

5 9S 18W Rocks KS

Job Ticket: 31812

DST#: 4

ATTN: David Doyel

Test Start: 2008.02.13 @ 13:27:16

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	CO	0.025
60.00	OCM 15%O 85%M	0.295

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

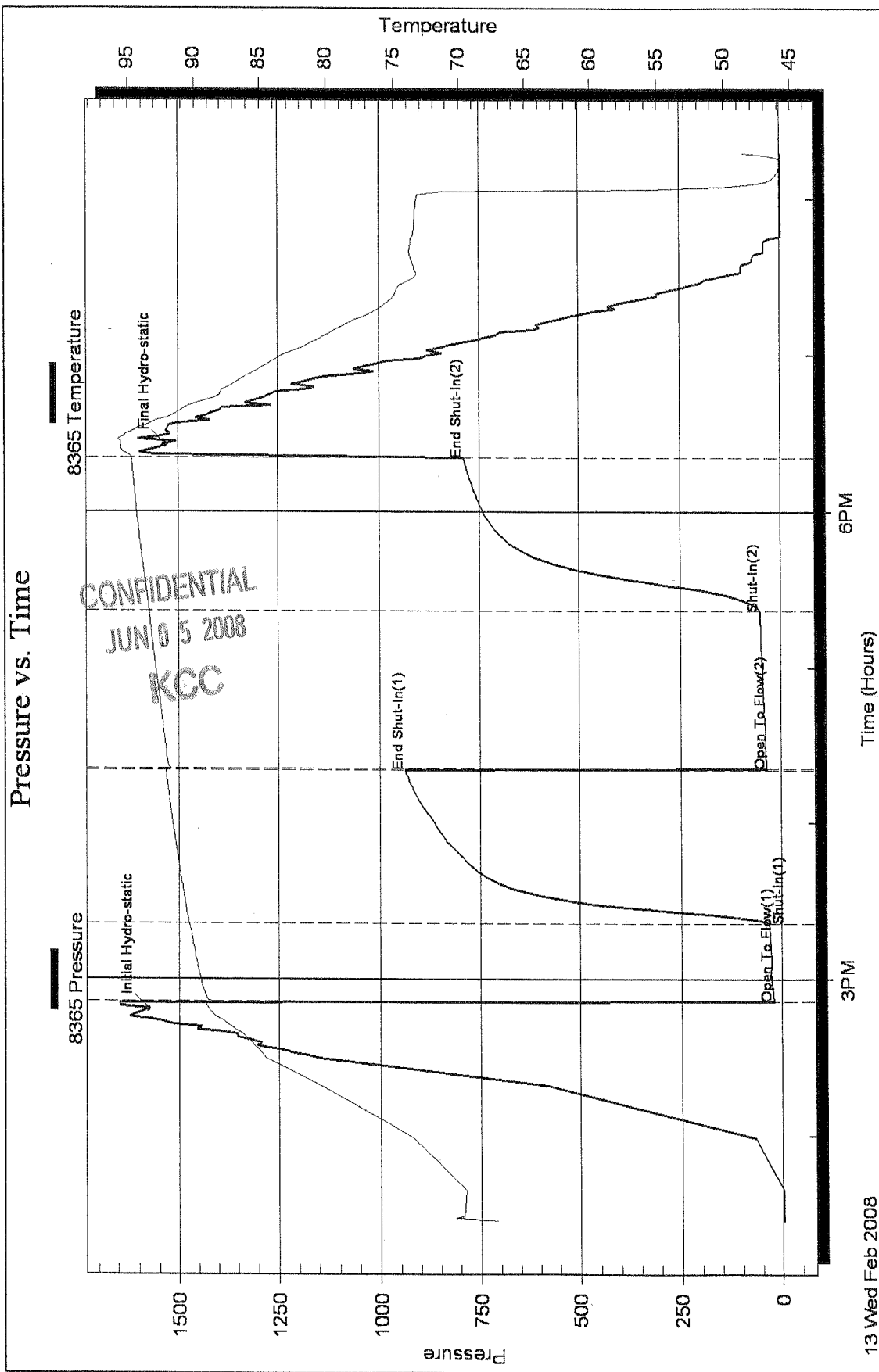
Serial #:

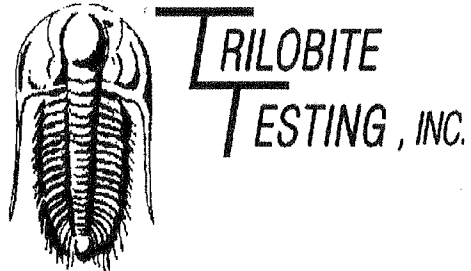
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

CONFIDENTIAL
JUN 05 2008
KCC

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: David Doyel

5 9S 18W Rooks KS

Gertude # 2-5

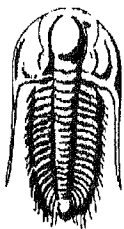
Start Date: 2008.02.14 @ 04:13:12

End Date: 2008.02.14 @ 10:17:36

Job Ticket #: 31813 DST #: 5

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

RECEIVED
KANSAS CORPORATION COMMISSION
JUN 05 2008
CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: David Doyel

Gertude # 2-5

5 9S 18W Rooks KS

Job Ticket: 31813

DST#: 5

Test Start: 2008.02.14 @ 04:13:12

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:20:07

Time Test Ended: 10:17:36

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3454.00 ft (KB) To 3497.00 ft (KB) (TVD)**

Total Depth: 3497.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2062.00 ft (KB)

2057.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 19.40 psig @ 3462.01 ft (KB)

Start Date: 2008.02.14

End Date:

2008.02.14

Capacity: 7000.00 psig

Start Time: 04:13:12

End Time:

10:17:36

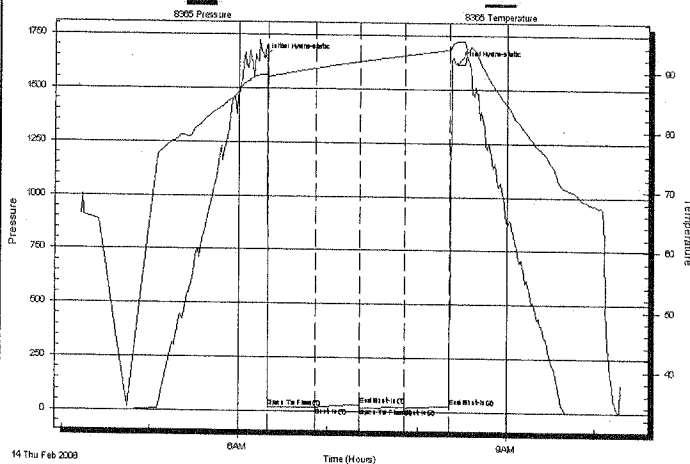
Last Calib.: 2008.02.14

Time On Btm: 2008.02.14 @ 06:17:37

Time Off Btm: 2008.02.14 @ 08:26:37

TEST COMMENT: IFP Surface bl died in 9 min
FFP No bl
Times 30 30 30 30

Pressure vs. Time



PRESSURE SUMMARY

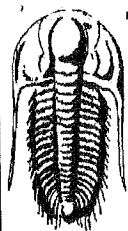
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1641.21	89.27	Initial Hydro-static
3	17.38	88.98	Open To Flow (1)
34	19.19	90.40	Shut-In(1)
64	33.10	91.58	End Shut-In(1)
64	19.31	91.59	Open To Flow (2)
94	19.40	92.67	Shut-In(2)
124	27.70	93.65	End Shut-In(2)
129	1617.86	95.00	Final Hydro-static

Recovery

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

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/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 67202-1216

ATTN: David Doyel

Gertude # 2-5
5 9S 18W Rooks KS
Job Ticket: 31813 **DST#: 5**
Test Start: 2008.02.14 @ 04:13:12

Tool Information

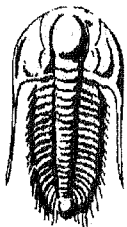
Drill Pipe:	Length: 3338.00 ft	Diameter: 3.80 inches	Volume: 46.82 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	75000.00 lb
		Total Volume:	47.41 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3454.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.02 ft				
Tool Length:	66.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

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JUN 05 2008

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3432.00	
Shut In Tool	5.00			3437.00	
Hydraulic tool	5.00			3442.00	
Safety Joint	2.00			3444.00	
Packer	5.00			3449.00	23.00 Bottom Of Top Packer
Packer	5.00			3454.00	
Stubb	1.00			3455.00	
Perforations	7.00			3462.00	
Recorder	0.01	8365	Inside	3462.01	
Recorder	0.01	8371	Outside	3462.02	
Blank Spacing	32.00			3494.02	
Bullnose	3.00			3497.02	43.02 Bottom Packers & Anchor

Total Tool Length: 66.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Gertude # 2-5

250 N Water Ste 300
Wichita KS 67202-1216

5 9S 18W Rooks KS

Job Ticket: 31813

DST#: 5

ATTN: David Doyel

Test Start: 2008.02.14 @ 04:13:12

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 5700.00 ppm

Filter Cake: 2.00 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
5.00	M	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:

Pressure vs. Time

