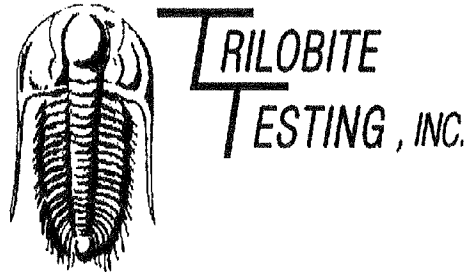


15-039-21023

7-3s-26w

IND



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

7 3 26 Decatur KS

Montgomery #1-7

Start Date: 2007.12.27 @ 08:29:33

End Date: 2007.12.27 @ 16:09:53

Job Ticket #: 30677 DST #: 1

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CONSERVATION DIVISION
WICHITA, KS

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

Murfin Drilling Company

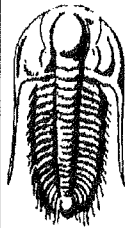
Montgomery #1-7

7 3 26 Decatur KS

DST # 1

Toronto-Lansing "A"

2007.12.27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Montgomery #1-7

7 3 26 Decatur KS

Job Ticket: 30677

DST#: 1

Test Start: 2007.12.27 @ 08:29:33

GENERAL INFORMATION:

Formation: **Toronto-Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:06:13

Time Test Ended: 16:09:53

Interval: **3487.00 ft (KB) To 3544.00 ft (KB) (TVD)**

Total Depth: 3544.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Reference Elevations: 2593.00 ft (KB)

2588.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352 Outside

Press@RunDepth: 176.65 psig @ 3488.00 ft (KB)

Start Date: 2007.12.27

End Date: 2007.12.27

Capacity: 7000.00 psig

Start Time: 08:29:35

End Time: 16:09:52

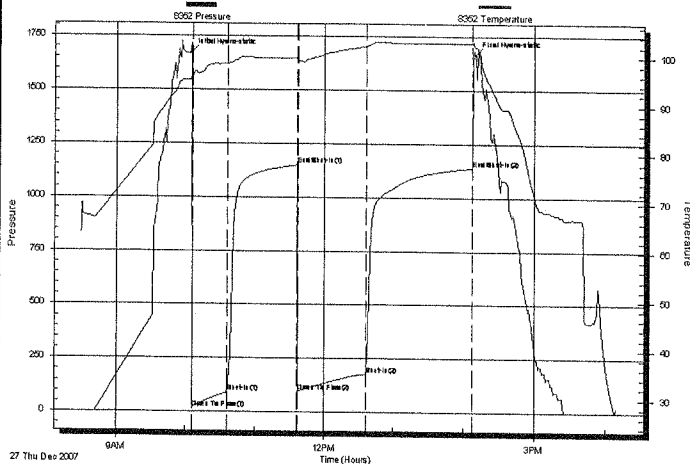
Last Calib.: 2007.12.27

Time On Btm: 2007.12.27 @ 10:04:33

Time Off Btm: 2007.12.27 @ 14:09:53

TEST COMMENT: IF Strong blow BOB 28 min
ISI Bled off blow back built to 1.5 " in bucket
FF Strong blow BOB 25 min
FSI Bled off blow back built to 3 " in bucket

Pressure vs. Time



PRESSURE SUMMARY

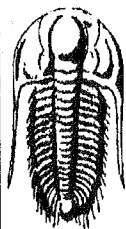
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.75	95.34	Initial Hydro-static
2	15.83	95.95	Open To Flow (1)
32	88.14	98.60	Shut-In(1)
92	1149.51	99.73	End Shut-In(1)
93	92.85	99.46	Open To Flow (2)
152	176.65	102.25	Shut-In(2)
244	1138.02	102.93	End Shut-In(2)
246	1667.59	102.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
290.00	Clean GO 10%G 90%O	1.43
135.00	GOCM 15%G 15%O 70%M	0.69
0.00	310' GIP	0.00
0.00	Corrected gravity = 29 API	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Montgomery #1-7

7 3 26 Decatur KS

Job Ticket: 30677

DST#: 1

Test Start: 2007.12.27 @ 08:29:33

Tool Information

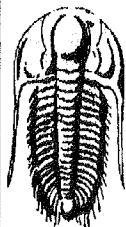
Drill Pipe:	Length: 3057.00 ft	Diameter: 3.80 inches	Volume: 42.88 bbl	Tool Weight: 3200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 422.00 ft	Diameter: 2.25 inches	Volume: 2.08 bbl	Weight to Pull Loose: 78000.00 lb
		Total Volume:	44.96 bbl	Tool Chased 10.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3487.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3469.00	
Hydraulic tool	5.00			3474.00	
Safety Joint	3.00			3477.00	
Packer	5.00			3482.00	23.00 Bottom Of Top Packer
Packer	5.00			3487.00	
Stubb	1.00			3488.00	
Recorder	0.00	6799	Inside	3488.00	
Recorder	0.00	8352	Outside	3488.00	
Perforations	21.00			3509.00	
Blank Spacing	32.00			3541.00	
Bullnose	3.00			3544.00	57.00 Bottom Packers & Anchor

Total Tool Length: 80.00

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TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Montgomery #1-7

250 N Water Ste 300
Wichita KS 67202

7 3 26 Decatur KS

Job Ticket: 30677

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2007.12.27 @ 08:29:33

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: 800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
290.00	Clean GO 10%G 90%O	1.426
135.00	GOCM 15%G 15%O 70%M	0.691
0.00	310' GIP	0.000
0.00	Corrected gravity = 29 API	0.000

Total Length: 425.00 ft

Total Volume: 2.117 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

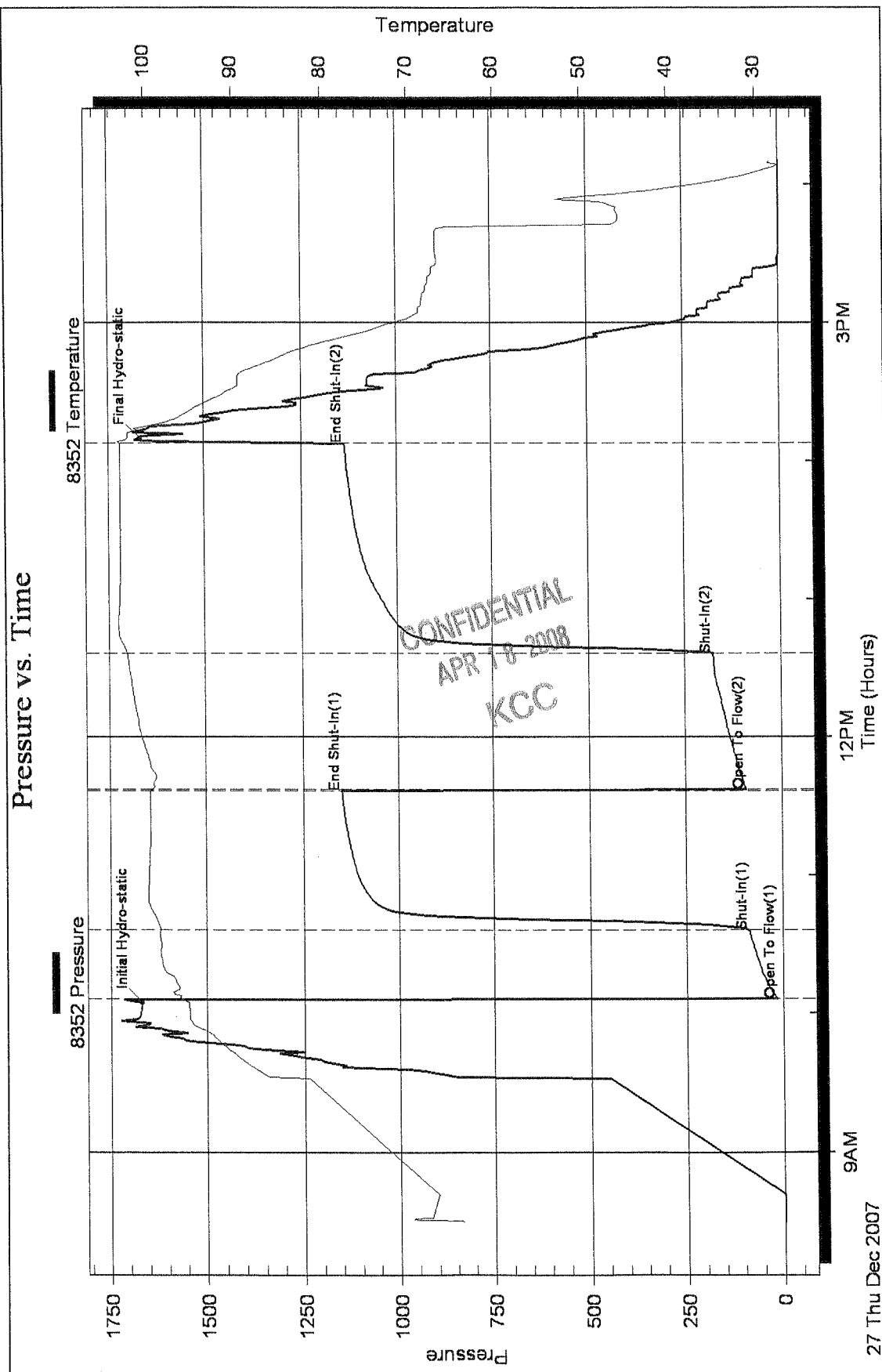
DST Test Number: 1

7 3 26 Decatur KS

Outside Murfin Drilling Company

Serial #: 8352

Pressure vs. Time

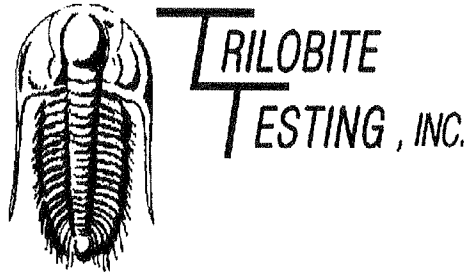


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WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

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ATTN: Paul Gunzelman

7 3 26 Decatur KS

Montgomery #1-7

Start Date: 2007.12.27 @ 21:46:45

End Date: 2007.12.28 @ 05:31:54

Job Ticket #: 30678 DST #: 2

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WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Montgomery #1-7

7 3 26 Decatur KS

Job Ticket: 30678

DST#: 2

Test Start: 2007.12.27 @ 21:46:45

GENERAL INFORMATION:

Formation: **Pollnow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:33:35

Time Test Ended: 05:31:54

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: 3543.00 ft (KB) To 3561.00 ft (KB) (TVD)

Total Depth: 3561.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2593.00 ft (KB)

2588.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352 Outside

Press@RunDepth: 143.62 psig @ 3544.00 ft (KB)

Start Date: 2007.12.27

End Date:

2007.12.28

Start Time: 21:46:47

End Time:

05:31:55

Capacity: 7000.00 psig

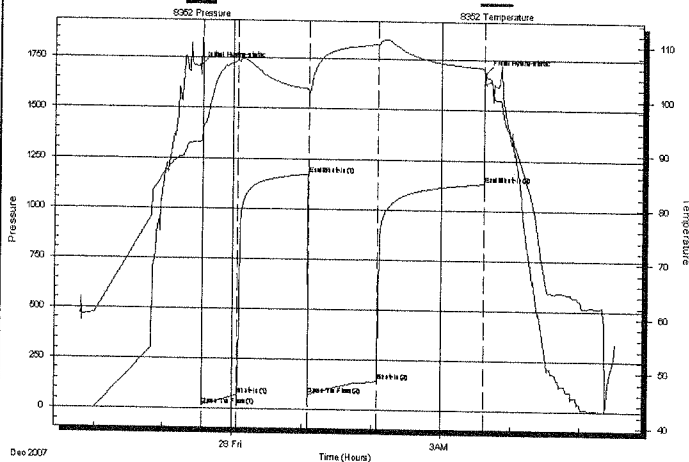
Last Calib.: 2007.12.28

Time On Btm: 2007.12.27 @ 23:31:05

Time Off Btm: 2007.12.28 @ 03:37:54

TEST COMMENT: IF Strong blow BOB in 16 min
ISI Bled off blow back built to 2 " in bucket
FF Strong blow BOB in 30 min
FSI Bled off blow back built to 7 " in bucket

Pressure vs. Time



PRESSURE SUMMARY

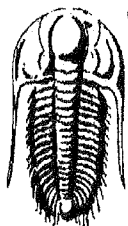
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.94	92.01	Initial Hydro-static
3	14.89	93.66	Open To Flow (1)
33	69.87	107.03	Shut-In (1)
94	1172.38	101.95	End Shut-In (1)
94	71.47	101.44	Open To Flow (2)
154	143.62	110.22	Shut-In (2)
246	1132.10	106.04	End Shut-In (2)
247	1683.12	103.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	OCM 20%O 80%M	0.12
420.00	GClean Oil 10%G 90%O	2.28
0.00	375' GIP	0.00
0.00	Corrected gravity = 35 API	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Montgomery #1-7

250 N Water Ste 300
Wichita KS 67202

7 3 26 Decatur KS

Job Ticket: 30678

DST#: 2

ATTN: Paul Gunzelman

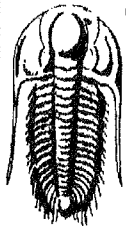
Test Start: 2007.12.27 @ 21:46:45

Tool Information

Drill Pipe:	Length: 3118.00 ft	Diameter: 3.80 inches	Volume: 43.74 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 422.00 ft	Diameter: 2.25 inches	Volume: 2.08 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	45.82 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3543.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3525.00	
Hydraulic tool	5.00			3530.00	
Safety Joint	3.00			3533.00	
Packer	5.00			3538.00	23.00 Bottom Of Top Packer
Packer	5.00			3543.00	
Stubb	1.00			3544.00	
Recorder	0.00	6799	Inside	3544.00	
Recorder	0.00	8352	Outside	3544.00	
Perforations	14.00			3558.00	
Bullnose	3.00			3561.00	18.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Montgomery #1-7

250 N Water Ste 300
Wichita KS 67202

7 3 26 Decatur KS

Job Ticket: 30678

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2007.12.27 @ 21:46:45

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 5.98 in³

Resistivity: ohm.m

Salinity: 800.00 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
25.00	OCM 20%O 80%M	0.123
420.00	GClean Oil 10%G 90%O	2.275
0.00	375' GIP	0.000
0.00	Corrected gravity = 35 API	0.000

Total Length: 445.00 ft

Total Volume: 2.398 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

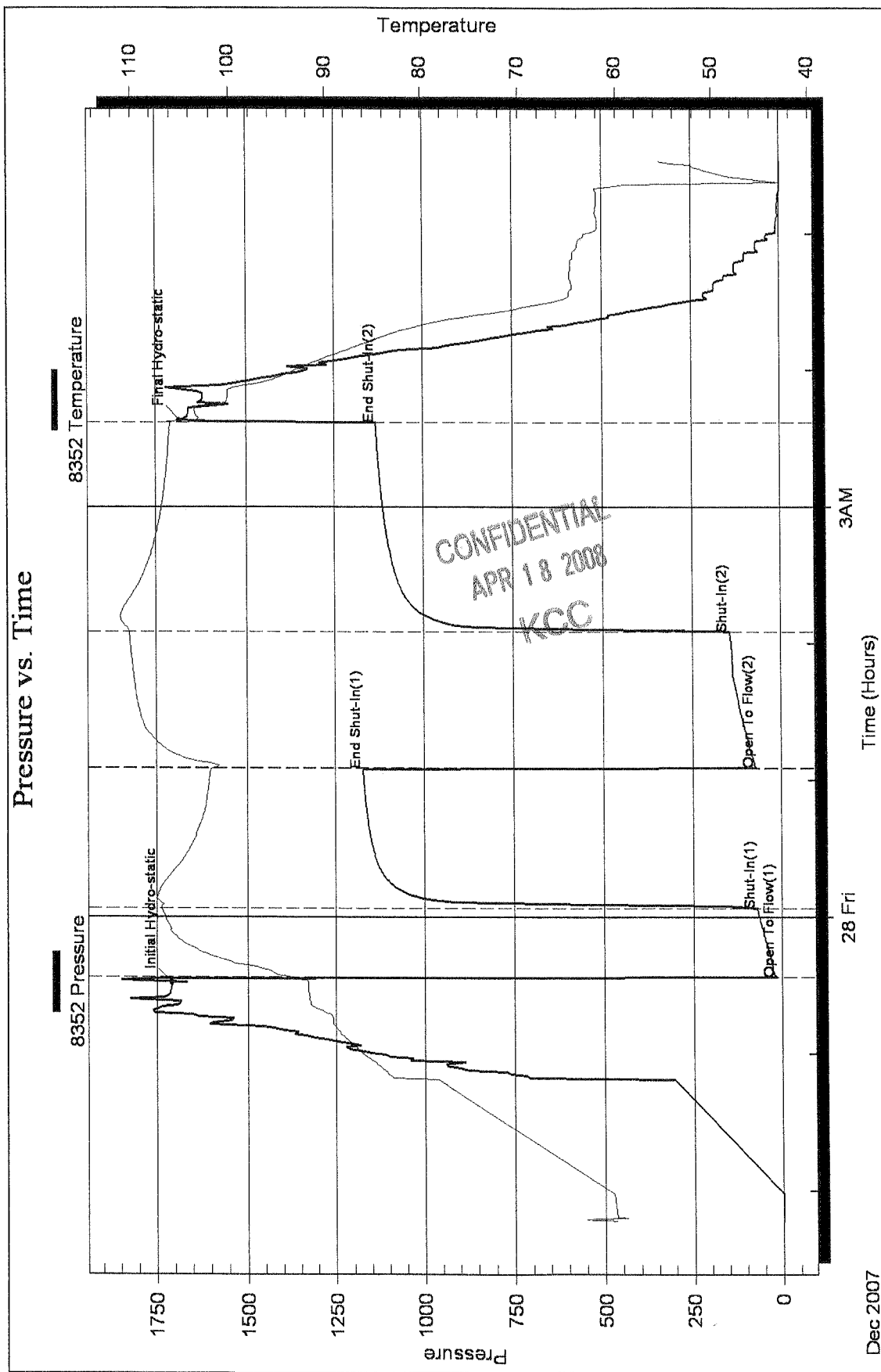
Serial #:

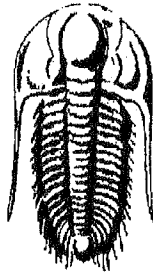
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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DRILL STEM TEST REPORT

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Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

7 3 26 Decatur KS

Montgomery #1-7

Start Date: 2007.12.28 @ 16:02:12

End Date: 2007.12.29 @ 02:10:12

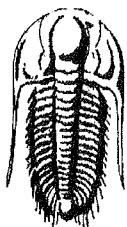
Job Ticket #: 30680 DST #: 3

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

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WICHITA, KS



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TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Montgomery #1-7

7 3 26 Decatur KS

Job Ticket: 30680

DST#: 3

Test Start: 2007.12.28 @ 16:02:12

GENERAL INFORMATION:

Formation: **Lansing "D-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:52

Time Test Ended: 02:10:12

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3569.00 ft (KB) To 3630.00 ft (KB) (TVD)**

Total Depth: 3630.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2593.00 ft (KB)

2588.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352 Outside

Press@RunDepth: 561.63 psig @ 3570.00 ft (KB)

Start Date: 2007.12.28

End Date: 2007.12.29

Start Time: 16:02:14

End Time: 02:10:12

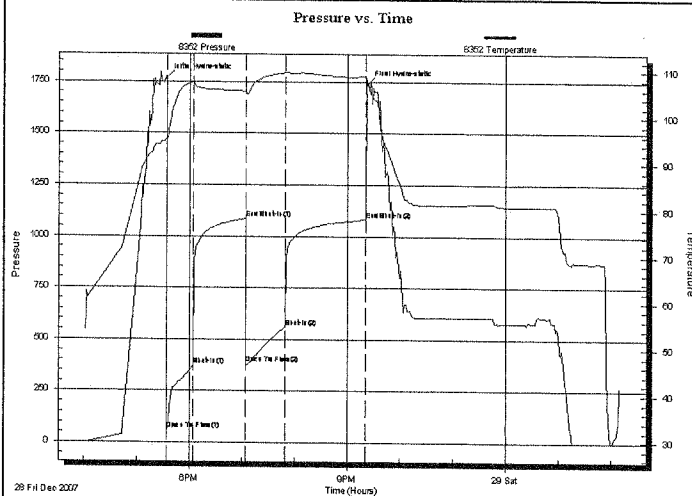
Capacity: 7000.00 psig

Last Calib.: 2007.12.29

Time On Btm: 2007.12.28 @ 17:33:52

Time Off Btm: 2007.12.28 @ 21:22:51

TEST COMMENT: IF Strong blow BOB 3 min. 15 sec.
ISI Bled off weak .25" blow back died after 30 min.
FF Strong blow BOB 5 min. 30 sec.
FSI Bled off blow back built to BOB in 42 min.



PRESSURE SUMMARY

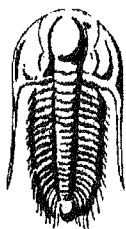
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.88	95.39	Initial Hydro-static
1	60.03	95.07	Open To Flow (1)
31	373.70	107.83	Shut-In (1)
91	1086.33	105.74	End Shut-In (1)
91	384.14	105.38	Open To Flow (2)
136	561.63	109.79	Shut-In (2)
227	1080.18	109.07	End Shut-In (2)
229	1739.88	107.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCW w/trace Oil 10%M 90%W	0.61
1055.00	(avg) GWMCO 10%G 10%W 20%M 60%O	12.08
62.00	GWMCO 20%G 12%W 15%M 53%O	0.87
62.00	GWMCO 10%G 10%W 25%M 55%O	0.87
62.00	GCMO 10%G 40%M 50%O	0.87
0.00	350' GIP 125,000ppm chl	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

Montgomery #1-7

250 N Water Ste 300
Wichita KS 67202

7 3 26 Decatur KS

Job Ticket: 30680

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2007.12.28 @ 16:02:12

Tool Information

Drill Pipe:	Length: 3148.00 ft	Diameter: 3.80 inches	Volume: 44.16 bbl	Tool Weight: 3500.00 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: 422.00 ft	Diameter: 2.25 inches	Volume: 2.08 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 46.24 bbl		Tool Chased 6.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3569.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

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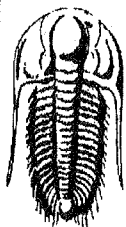
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3546.00	
Hydraulic tool	5.00			3551.00	
Safety Joint	3.00			3554.00	
Packer	5.00			3559.00	28.00 Bottom Of Top Packer
Packer	5.00			3564.00	61.00 Tool Interval
Packer	5.00			3569.00	
Stubb	1.00			3570.00	
Recorder	0.00	6799	Inside	3570.00	
Recorder	0.00	8352	Outside	3570.00	
Perforations	24.00			3594.00	
Blank Spacing	33.00			3627.00	
Bullnose	3.00			3630.00	1000088.00 Bottom Packers & Anchor

Total Tool Length: 89.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Montgomery #1-7

250 N Water Ste 300
Wichita KS 67202

7 3 26 Decatur KS

Job Ticket: 30680

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2007.12.28 @ 16:02:12

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.00 in³

Resistivity: ohm.m

Salinity: 1400.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCW w/trace Oil 10%M 90%W	0.610
1055.00	(avg) GWMCO 10%G 10%W 20%M 60%O	12.084
62.00	GWMCO 20%G 12%W 15%M 53%O	0.870
62.00	GWMCO 10%G 10%W 25%M 55%O	0.870
62.00	GCMO 10%G 40%M 50%O	0.870
0.00	350 ' GIP 125,000ppm chl	0.000

Total Length: 1365.00 ft

Total Volume: 15.304 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

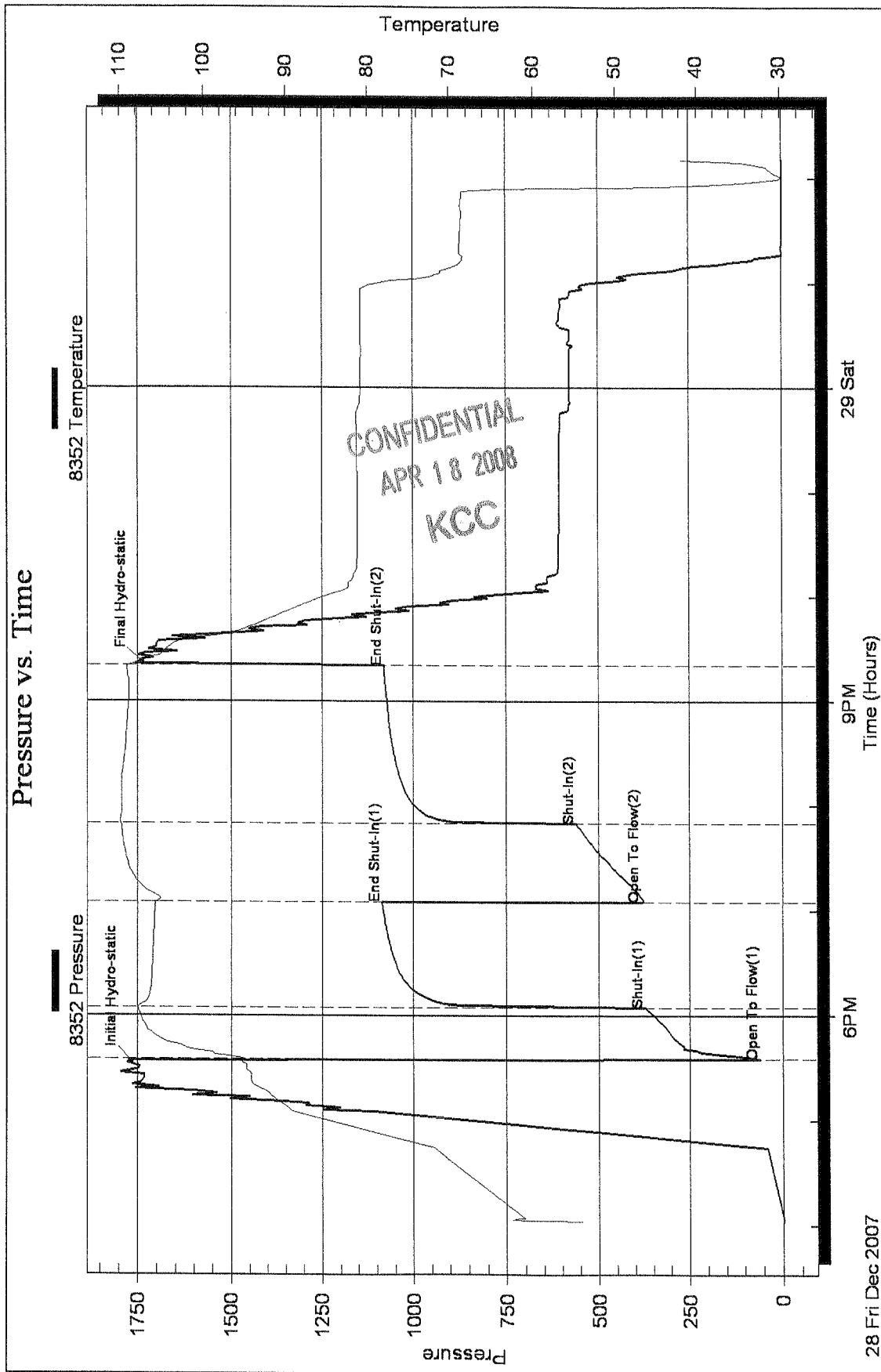
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Ref. No: 30680

Printed: 2007.12.31 @ 12:32:14 Page 5

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