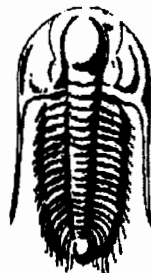


15-193-20744

22-10s-34w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Bob Stolze

22 10S 34W Thomas KS

James # 1-22 'A'

Start Date: 2008.05.15 @ 13:00:00

End Date: 2008.05.15 @ 21:52:49

Job Ticket #: 32038 DST #: 1

KCC
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KANSAS CORPORATION COMMISSION

SEP 10 2008

CONSERVATION DIVISION
WICHITA, KS

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

Murfin Drilling Company

James # 1-22
James 'A'

22 10S 34W Thomas KS

DST # 1

Lansing "A-D"

2008.05.15



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Bob Stolze

James # 1-22

22 10S 34W Thomas KS

Job Ticket: 32038

DST#: 1

Test Start: 2008.05.15 @ 13:00:00

GENERAL INFORMATION:

Formation: **Lansing "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:21:40

Time Test Ended: 21:52:49

Interval: **4135.00 ft (KB) To 4210.00 ft (KB) (TVD)**

Total Depth: 4210.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Reference Elevations: 3212.00 ft (KB)

3207.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352

Inside

Press@RunDepth: 1158.31 psig @ 4136.00 ft (KB)

Start Date: 2008.05.15

End Date: 2008.05.15

Start Time: 13:00:02

End Time: 21:52:49

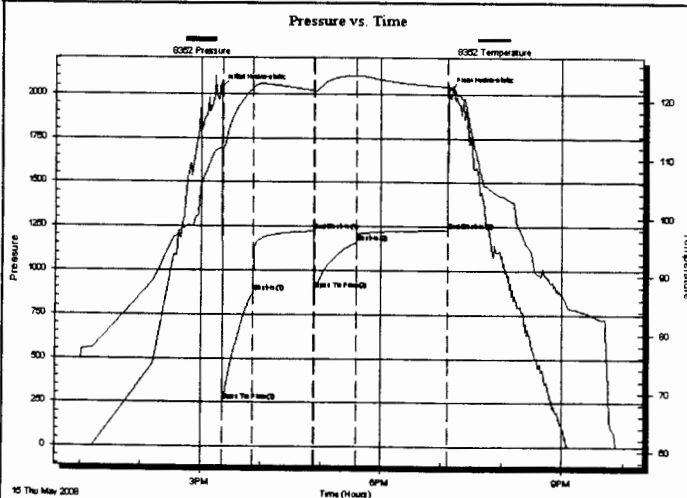
Capacity: 7000.00 psig

Last Calib.: 2008.05.15

Time On Btm: 2008.05.15 @ 15:20:00

Time Off Btm: 2008.05.15 @ 19:08:09

TEST COMMENT: IF Very strong blow BOB 1 min 10 sec
ISI Bled off no blow back.
FF: Strong blow BOB 2 min 10 sec
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2031.37	111.94	Initial Hydro-static
2	256.48	111.69	Open To Flow (1)
32	873.60	122.13	Shut-In (1)
93	1222.57	121.85	End Shut-In (1)
93	889.42	121.74	Open To Flow (2)
136	1158.31	124.33	Shut-In (2)
227	1228.63	122.52	End Shut-In (2)
229	2020.37	122.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1709.00	Clean SW 100%W 71,000ppmChl	22.33
200.00	SMCW 10%M 90%W	2.81
252.00	MCW 20%M 80%W	3.53
204.00	MW 40%M 60%W	2.86

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

James # 1-22

250 N Water Ste 300
Wichita KS 67202

22 10S 34W Thomas KS

Job Ticket: 32038

DST#: 1

ATTN: Bob Stolzle

Test Start: 2008.05.15 @ 13:00:00

Tool Information

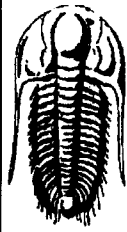
Drill Pipe:	Length: 3946.00 ft	Diameter: 3.80 inches	Volume: 55.35 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume: 56.24 bbl		Tool Chased 1.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4135.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	98.00 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			4117.00	
Hydraulic tool	5.00			4122.00	
Safety Joint	3.00			4125.00	
Packer	5.00			4130.00	23.00 Bottom Of Top Packer
Packer	5.00			4135.00	
Stubb	1.00			4136.00	
Recorder	0.00	8352	Inside	4136.00	
Recorder	0.00	6799	Inside	4136.00	
Perforations	5.00			4141.00	
Blank Spacing	66.00			4207.00	
Bullnose	3.00			4210.00	75.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

James # 1-22

250 N Water Ste 300
Wichita KS 67202

22 10S 34W Thomas KS

Job Ticket: 32038

DST#: 1

ATTN: Bob Stolzle

Test Start: 2008.05.15 @ 13:00:00

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: 9000.00 ppm

Filter Cake: 0.07 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
1709.00	Clean SW 100%W 71,000ppmChl	22.333
200.00	SMCW 10%M 90%W	2.805
252.00	MCW 20%M 80%W	3.535
204.00	MW 40%M 60%W	2.862

Total Length: 2365.00 ft

Total Volume: 31.535 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

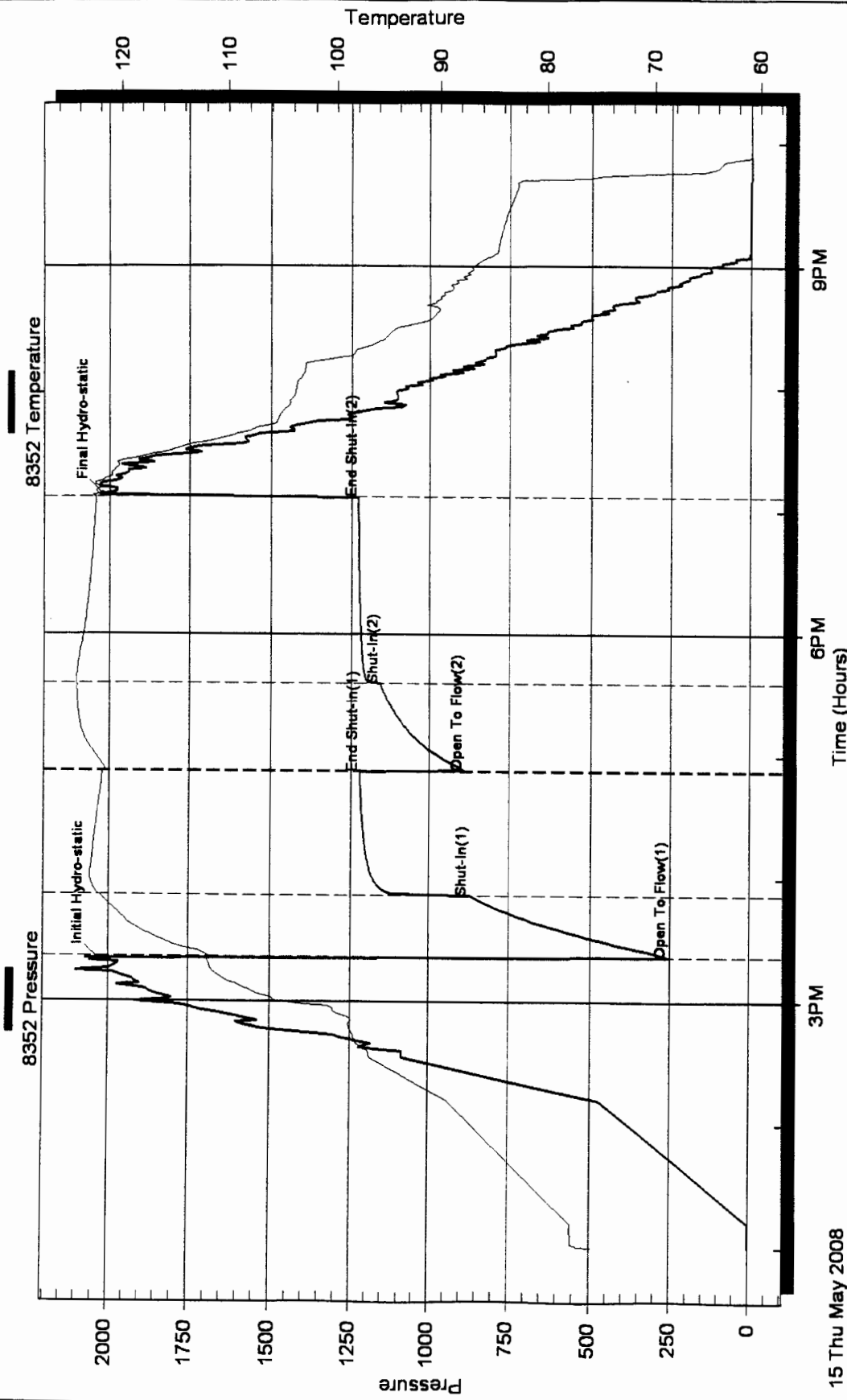
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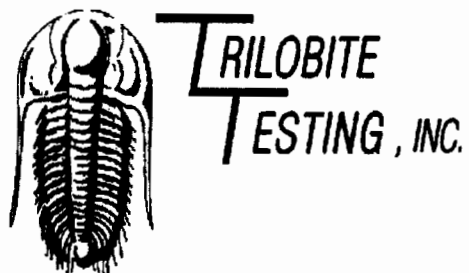
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Bob Stolzle

22 10S 34W Thomas KS

James # 1-22

Start Date: 2008.05.16 @ 06:12:00

End Date: 2008.05.16 @ 14:18:50

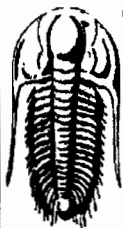
Job Ticket #: 32039 DST #: 2

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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

250 N Water Ste 300
Wichita KS 67202

ATTN: Bob Stolzle

James # 1-22

22 10S 34W Thomas KS

Job Ticket: 32039

DST#: 2

Test Start: 2008.05.16 @ 06:12:00

GENERAL INFORMATION:

Formation: **Lansing "EF"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:11:50

Time Test Ended: 14:18:50

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **4218.00 ft (KB) To 4235.00 ft (KB) (TVD)**

Total Depth: 4235.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3212.00 ft (KB)

3207.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 8352

Inside

Press@RunDepth: 176.39 psig @ 4219.00 ft (KB)

Start Date: 2008.05.16

End Date: 2008.05.16

Start Time: 06:12:02

End Time: 14:18:50

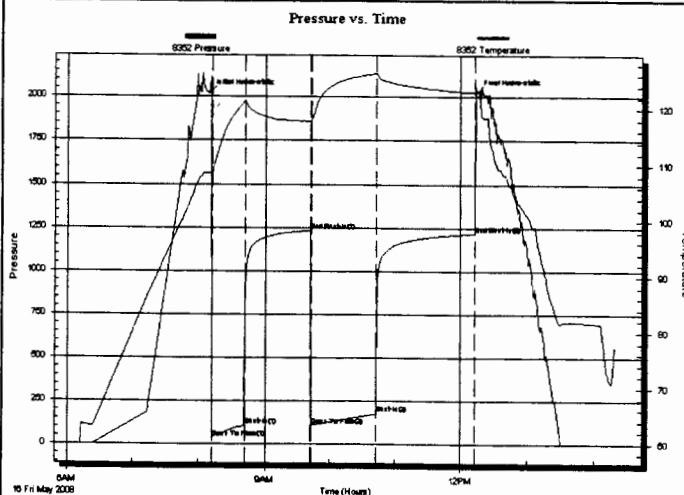
Capacity: 7000.00 psig

Last Calib.: 2008.05.16

Time On Btm: 2008.05.16 @ 08:09:30

Time Off Btm: 2008.05.16 @ 12:14:50

TEST COMMENT: IF Fair blow built to 9.5 " in bucket
ISI Bled off no blow back
FF Fair blow built to BOB in 53 min
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.70	108.60	Initial Hydro-static
3	36.71	108.30	Open To Flow (1)
33	107.50	121.45	Shut-In(1)
93	1232.64	117.79	End Shut-In(1)
93	108.45	117.42	Open To Flow (2)
154	176.39	126.46	Shut-In(2)
244	1216.63	123.08	End Shut-In(2)
246	2025.40	122.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	SW 100%W 65,000ppmCHL	1.73
63.00	SMCW 5%M 95%W	0.88
62.00	MCW 15%M 85%W	0.87
20.00	MW 37%M 63%W	0.28

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

James # 1-22

250 N Water Ste 300
Wichita KS 67202

22 10S 34W Thomas KS

Job Ticket: 32039

DST#: 2

ATTN: Bob Stolzie

Test Start: 2008.05.16 @ 06:12:00

Tool Information

Drill Pipe:	Length: 4041.00 ft	Diameter: 3.80 inches	Volume: 56.68 bbl	Tool Weight:	2300.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	57.57 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4218.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	40.00 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			4200.00	
Hydraulic tool	5.00			4205.00	
Safety Joint	3.00			4208.00	
Packer	5.00			4213.00	23.00 Bottom Of Top Packer
Packer	5.00			4218.00	
Stubb	1.00			4219.00	
Recorder	0.00	8352	Inside	4219.00	
Recorder	0.00	6799	Inside	4219.00	
Perforations	13.00			4232.00	
Bullnose	3.00			4235.00	17.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

James # 1-22

250 N Water Ste 300
Wichita KS 67202

22 10S 34W Thomas KS

ATTN: Bob Stolze

Job Ticket: 32039

DST#: 2

Test Start: 2008.05.16 @ 06:12:00

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12500.00 ppm

Filter Cake: 0.07 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	SW 100%W 65,000ppmCHL	1.727
63.00	SMCW 5%M 95%W	0.884
62.00	MCW 15%M 85%W	0.870
20.00	MMV 37%M 63%W	0.281

Total Length: 385.00 ft

Total Volume: 3.762 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

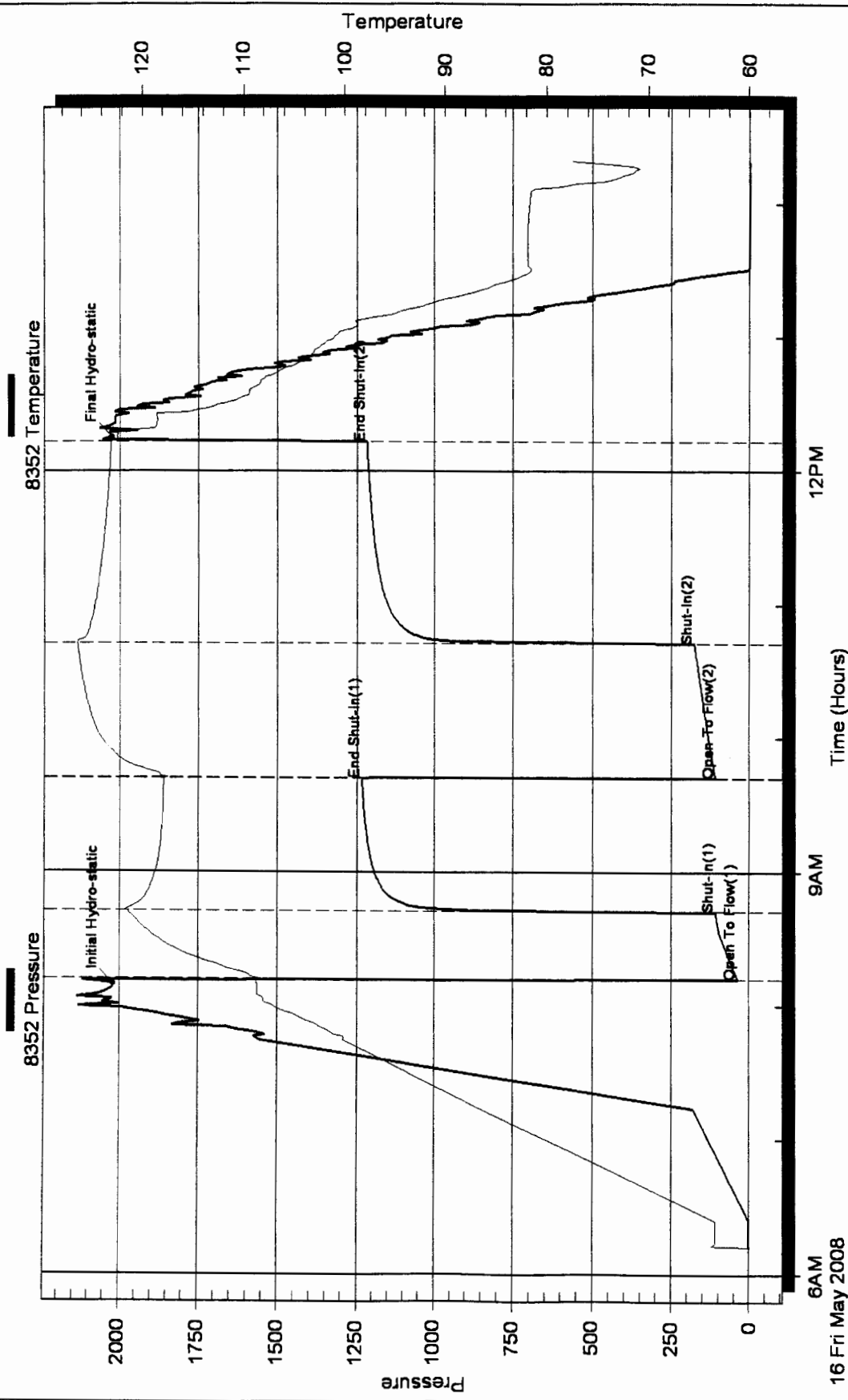
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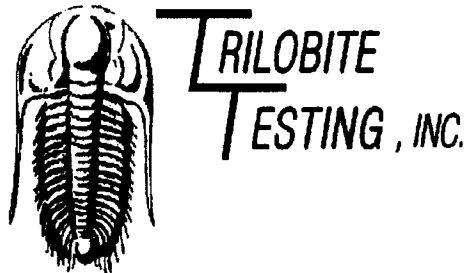
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Bob Stolze

22 10S 34W Thomas KS

James # 1-22

Start Date: 2008.05.17 @ 04:00:00

End Date: 2008.05.17 @ 12:30:00

Job Ticket #: 32040 DST #: 3

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KANSAS CORPORATION COMMISSION

SEP 10 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

250 N Water Ste 300
Wichita KS 67202

ATTN: Bob Stolzie

James # 1-22

22 10S 34W Thomas KS

Job Ticket: 32040

DST#: 3

Test Start: 2008.05.17 @ 04:00:00

GENERAL INFORMATION:

Formation: **L, KC "H&I"**

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

Time Tool Opened: 05:48:30

Time Test Ended: 12:30:00

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **43**

Interval: **4270.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Total Depth: **4340.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3212.00 ft (KB)**

3207.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8352

Inside

Press@RunDepth: **213.16 psig @ 4271.00 ft (KB)**

Start Date: **2008.05.17**

End Date:

2008.05.17

Capacity: **7000.00 psig**

Last Calib.: **2008.05.17**

Start Time: **04:00:02**

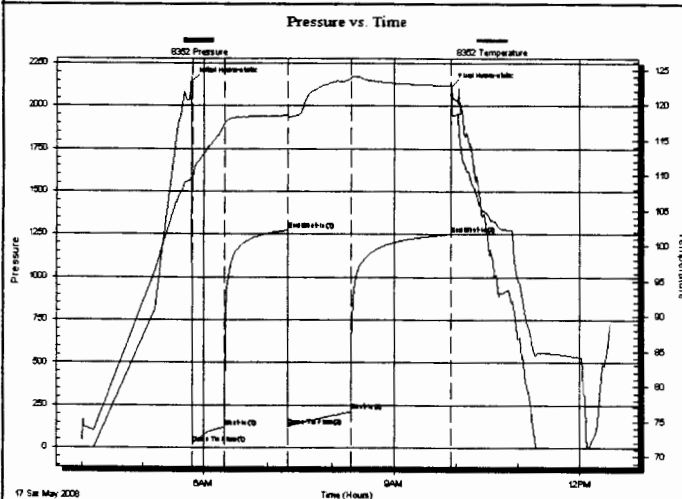
End Time:

12:30:00

Time On Btrc: **2008.05.17 @ 05:48:20**

Time Off Btrc: **2008.05.17 @ 09:55:30**

TEST COMMENT: IF Fair blow built to 11.75" in bucket
ISI Bled off no blow back
FF Fair blow built to BOB in 43 min
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.61	109.92	Initial Hydro-static
1	21.32	108.85	Open To Flow (1)
32	121.84	117.28	Shut-In (1)
91	1274.72	118.47	End Shut-In (1)
91	126.59	118.22	Open To Flow (2)
150	213.16	123.71	Shut-In (2)
246	1251.43	122.77	End Shut-In (2)
248	2117.83	119.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
239.00	SMCW 10%M 90%W 57000ppmCHL	1.71
65.00	MCW 20%M 80%W	0.91
65.00	MW 35%M 65%W	0.91
70.00	SOCWM 5%O 35%W 60%M	0.98
3.00	Clean Oil 100%O	0.04

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

James # 1-22

250 N Water Ste 300
Wichita KS 67202

22 10S 34W Thomas KS

Job Ticket: 32040

DST#: 3

ATTN: Bob Stolzle

Test Start: 2008.05.17 @ 04:00:00

Tool Information

Drill Pipe:	Length: 4072.00 ft	Diameter: 3.80 inches	Volume: 57.12 bbl	Tool Weight: 3000.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 76000.00 lb
		Total Volume: 58.01 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4270.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 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
Shut In Tool	5.00			4252.00	
Hydraulic tool	5.00			4257.00	
Safety Joint	3.00			4260.00	
Packer	5.00			4265.00	23.00 Bottom Of Top Packer
Packer	5.00			4270.00	
Stubb	1.00			4271.00	
Recorder	0.00	8352	Inside	4271.00	
Recorder	0.00	6799	Inside	4271.00	
Perforations	32.00			4303.00	
Blank Spacing	34.00			4337.00	
Bullnose	3.00			4340.00	70.00 Bottom Packers & Anchor
Total Tool Length:		93.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

James # 1-22

250 N Water Ste 300
Wichita KS 67202

22 10S 34W Thomas KS

Job Ticket: 32040

DST#: 3

ATTN: Bob Stolzie

Test Start: 2008.05.17 @ 04:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 8.39 in³

Resistivity: ohm.m

Salinity: 12500.00 ppm

Filter Cake: 0.07 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
239.00	SMCW 10%M 90%W 57000ppmCHL	1.713
65.00	MCW 20%M 80%W	0.912
65.00	MW 35%M 65%W	0.912
70.00	SOCWM 5%O 35%W 60%M	0.982
3.00	Clean Oil 100%O	0.042

Total Length: 442.00 ft

Total Volume: 4.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

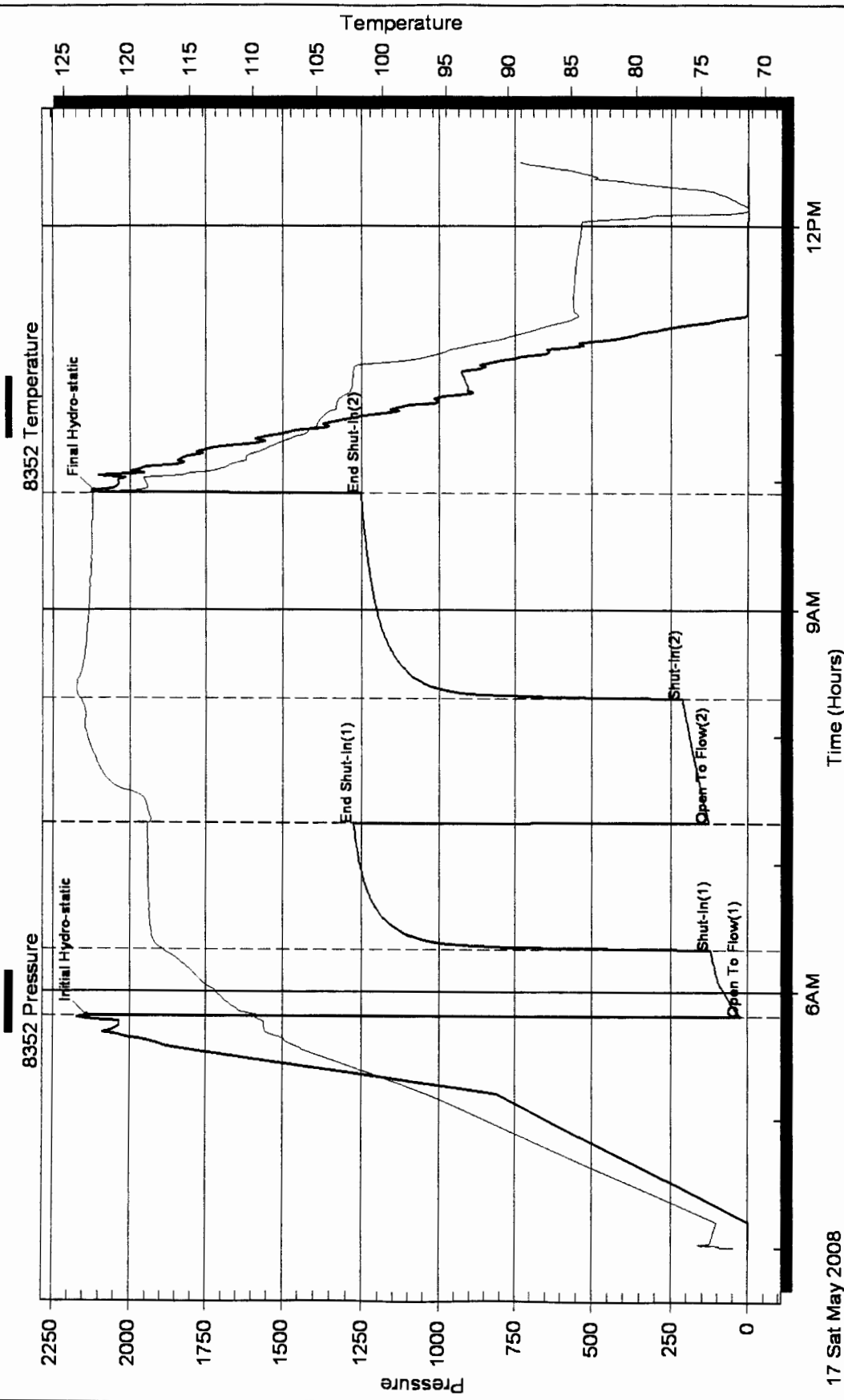
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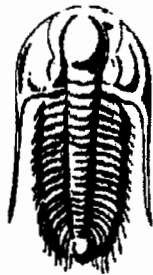
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Bob Stolze

22 10S 34W Thomas KS

James # 1-22

Start Date: 2008.05.17 @ 22:10:00

End Date: 2008.05.18 @ 07:18:49

Job Ticket #: 32041 DST #: 4

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Bob Stolze

James # 1-22

22 10S 34W Thomas KS

Job Ticket: 32041

DST#: 4

Test Start: 2008.05.17 @ 22:10:00

GENERAL INFORMATION:

Formation: **LKC "J&K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:19:00

Time Test Ended: 07:18:49

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **4342.00 ft (KB) To 4400.00 ft (KB) (TVD)**

Total Depth: 4400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3212.00 ft (KB)

3207.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 8352 Inside

Press@RunDepth: 251.74 psig @ 4343.00 ft (KB)

Start Date: 2008.05.17

End Date: 2008.05.18

Start Time: 22:10:02

End Time: 07:18:49

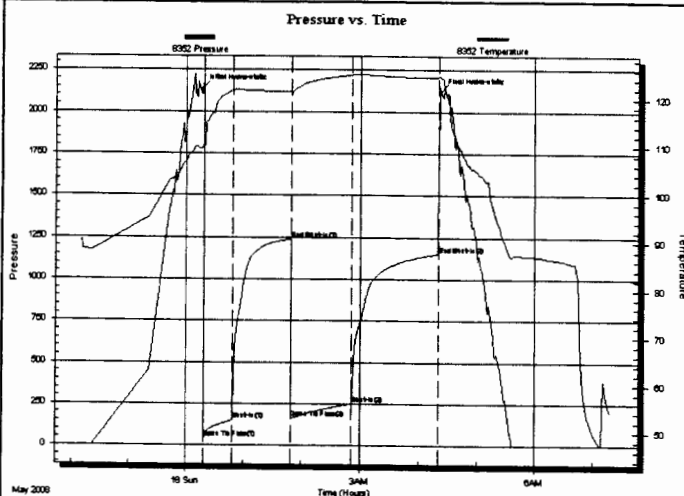
Capacity: 7000.00 psig

Last Calib.: 2008.05.18

Time On Btrr: 2008.05.18 @ 00:17:00

Time Off Btrr: 2008.05.18 @ 04:21:39

TEST COMMENT: IF Strong blow BOB 10 min
ISI Bled off weak blow back built to .75 " in bucket
FF Strong blow BOB 18 min
FSI Bled off weak blow back built to 1.75 " in bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.57	109.62	Initial Hydro-static
2	40.27	109.45	Open To Flow (1)
32	149.82	121.72	Shut-In (1)
92	1239.30	121.49	End Shut-In (1)
92	160.18	121.21	Open To Flow (2)
155	251.74	125.02	Shut-In (2)
243	1152.40	124.52	End Shut-In (2)
245	2122.62	124.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
235.00	SOCMcW 3%O 20%M 77%W	1.66
65.00	GsySOCWM 15%G 5%O 30%W 50%M	0.91
65.00	GsyWOM 28%G 15%W 25%O 32%M	0.91
75.00	GsyWOCM 20%G 10%W 25%M 45%O	1.05
125.00	Gsy Clean Oil 15%G 85%O	1.75
0.00	Corrected gravity=35.5; Chlorides=550000.00	

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

James # 1-22

250 N Water Ste 300
Wichita KS 67202

22 10S 34W Thomas KS

Job Ticket: 32041

DST#: 4

ATTN: Bob Stolzie

Test Start: 2008.05.17 @ 22:10:00

Tool Information

Drill Pipe:	Length: 4167.00 ft	Diameter: 3.80 inches	Volume: 58.45 bbl	Tool Weight:	3000.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	59.34 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4342.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	81.00 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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Shut In Tool	5.00			4324.00	
Hydraulic tool	5.00			4329.00	
Safety Joint	3.00			4332.00	
Packer	5.00			4337.00	23.00 Bottom Of Top Packer
Packer	5.00			4342.00	
Stubb	1.00			4343.00	
Recorder	0.00	8352	Inside	4343.00	
Recorder	0.00	6799	Inside	4343.00	
Perforations	20.00			4363.00	
Blank Spacing	34.00			4397.00	
Bullnose	3.00			4400.00	58.00 Bottom Packers & Anchor

Total Tool Length: 81.00



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Job Ticket: 32041

DST#: 4

ATTN: Bob Stolzie

Test Start: 2008.05.17 @ 22:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 12000.00 ppm

Filter Cake: 0.07 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
235.00	SOCMcW 3%O 20%M 77%W	1.657
65.00	GsySOCwM 15%G 5%O 30%W 50%M	0.912
65.00	GsyWOM 28%G 15%W 25%O 32%M	0.912
75.00	GsyWOCM 20%G 10%W 25%M 45%O	1.052
125.00	Gsy Clean Oil 15%G 85%O	1.753
0.00	Corrected gravity=35.5; Chlorides=55000	0.000

Total Length: 565.00 ft

Total Volume: 6.286 bbl

Num Fluid Samples: 0

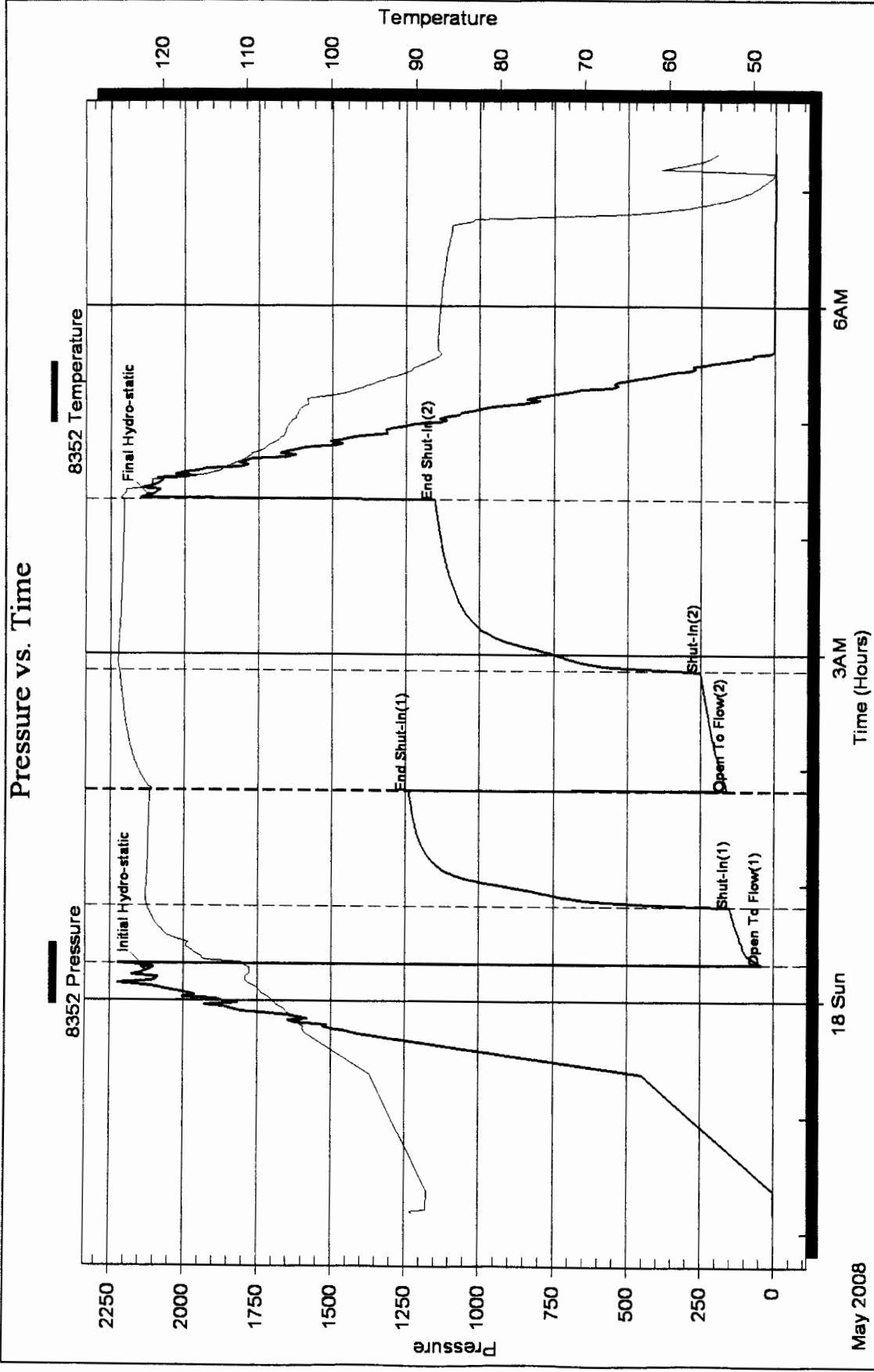
Num Gas Bombs: 0

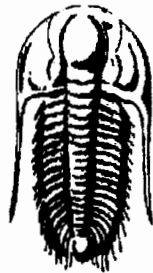
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Bob Stolze

22 10S 34W Thomas KS

James # 1-22

Start Date: 2008.05.19 @ 12:30:00

End Date: 2008.05.19 @ 20:16:00

Job Ticket #: 32042 DST #: 5

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 10 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

250 N Water Ste 300
Wichita KS 67202

ATTN: Bob Stotzie

James # 1-22

22 10S 34W Thomas KS

Job Ticket: 32042

DST#: 5

Test Start: 2008.05.19 @ 12:30:00

GENERAL INFORMATION:

Formation: **Johnson & Ft. Smint**

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

Time Tool Opened: 15:26:00

Time Test Ended: 20:16:00

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **43**

Interval: **4596.00 ft (KB) To 4720.00 ft (KB) (TVD)**

Total Depth: **4720.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3212.00 ft (KB)**

3207.00 ft (CF)

KB to GRV/CF: **5.00 ft**

Serial #: 8352

Inside

Press@RunDepth: **41.68 psig @ 4597.00 ft (KB)**

Start Date: **2008.05.19**

End Date: **2008.05.19**

Start Time: **12:30:02**

End Time: **20:16:00**

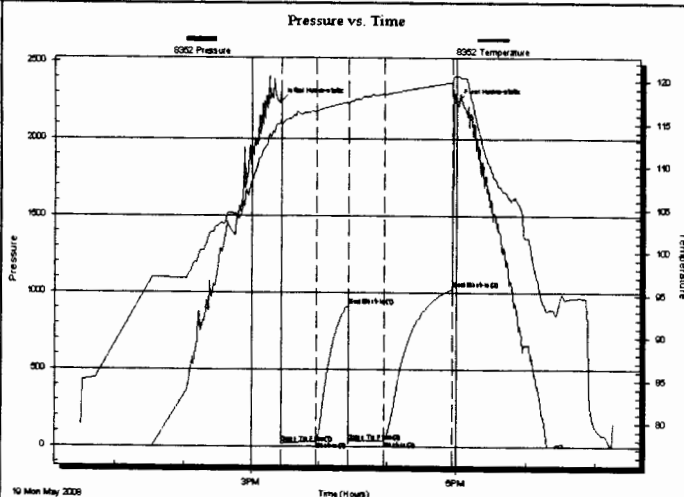
Capacity: **7000.00 psig**

Last Calib.: **2008.05.19**

Time On Btm: **2008.05.19 @ 15:25:10**

Time Off Btm: **2008.05.19 @ 17:59:30**

TEST COMMENT: IF Weak blow built to 1" in bucket sustaining blow through flow period
ISI Bled off no blow back
FF Weak surface blow died half way through flow period
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2240.39	115.23	Initial Hydro-static
1	21.57	114.95	Open To Flow (1)
33	32.83	116.52	Shut-In(1)
61	915.70	117.54	End Shut-In(1)
61	35.82	117.22	Open To Flow (2)
93	41.68	118.51	Shut-In(2)
152	1027.63	119.88	End Shut-In(2)
155	2237.27	120.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	DM	0.22

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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250 N Water Ste 300
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Job Ticket: 32042

DST#: 5

ATTN: Bob Stolzle

Test Start: 2008.05.19 @ 12:30:00

Tool Information

Drill Pipe:	Length: 4422.00 ft	Diameter: 3.80 inches	Volume: 62.03 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: 30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 78000.00 lb
		Total Volume: 62.92 bbl		Tool Chased 4.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4596.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	124.00 ft			
Tool Length:	147.00 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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Shut In Tool	5.00			4578.00	
Hydraulic tool	5.00			4583.00	
Safety Joint	3.00			4586.00	
Packer	5.00			4591.00	23.00 Bottom Of Top Packer
Packer	5.00			4596.00	
Stubb	1.00			4597.00	
Recorder	0.00	8352	Inside	4597.00	
Recorder	0.00	6799	Inside	4597.00	
Perforations	23.00			4620.00	
Blank Spacing	97.00			4717.00	
Bullnose	3.00			4720.00	124.00 Bottom Packers & Anchor

Total Tool Length: 147.00



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Job Ticket: 32042

DST#: 5

ATTN: Bob Stolzle

Test Start: 2008.05.19 @ 12:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11500.00 ppm

Filter Cake: 0.07 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	DM	0.221

Total Length: 45.00 ft

Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8352

Inside Murfin Drilling Company

22 10S34W Thomas KS

DST Test Number: 5

