15-023-20439



TRILOBITE TESTING, INC.

Release
NOV 04 2003
From
Confidential

DRILL STEM TEST REPORT

CONFIDENTIAL

Prepared For: **Murfin Drilling Company Inc.**

250 N Water Ste. #300
Wichita KS 67202

ORIGINAL KCC

AUG 13 2002

RECEIVED
AUG 14 2002
KCC WICHITA

ATTN: Brad Rine

CONFIDENTIAL

32-2S-41W Cheyenne K

DCLM Unit #5-32

Start Date: 2002.06.28 @ 00:05:20
End Date: 2002.06.28 @ 08:36:20
Job Ticket #: 15131 DST #: 1

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

Murfin Drilling Company Inc. DCLM Unit #5-32 32-2S-41W Cheyenne K DST # 1 Lans. "A" 2002.06.28

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15131 **DST#: 1**

Test Start: 2002.06.28 @ 00:05:20

GENERAL INFORMATION:

Formation: **Lans. "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:10:35
Time Test Ended: 08:36:20

Test Type: Conventional Bottom Hole
Tester: Rod Steinbrink
Unit No: 22

Interval: 4484.00 ft (KB) To 4547.00 ft (KB) (TVD)
Total Depth: 4547.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

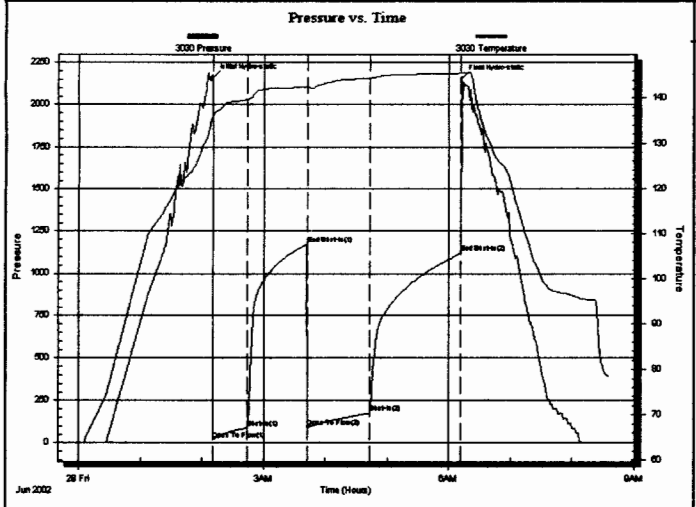
Reference Elevations: 3673.00 ft (KB)
3668.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3030 **Inside**
Press@RunDepth: 176.00 psig @ 4485.00 ft (KB)
Start Date: 2002.06.28 End Date: 2002.06.28
Start Time: 00:05:22 End Time: 08:36:20

CONFIDENTIAL

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.06.28 @ 02:10:20
Time Off Btm: 2002.06.28 @ 06:12:35

TEST COMMENT: IF; Weak to fair built to 10"
ISI; Very weak surface return for 20 mins.
FF; Weak to fair built to 8"
FSI; No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.50	135.83	Initial Hydro-static
1	20.35	135.96	Open To Flow (1)
34	87.88	139.67	Shut-In(1)
92	1172.72	142.39	End Shut-In(1)
93	94.33	142.39	Open To Flow (2)
153	176.00	144.42	Shut-In(2)
242	1120.83	145.52	End Shut-In(2)
243	2157.64	145.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	CGO	1.28
180.00	SGHOCM 5%gas 45%oil 50%mud	0.89

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: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15131 **DST#: 1**

Test Start: 2002.06.28 @ 00:05:20

Tool Information

Drill Pipe:	Length:	3960.00 ft	Diameter:	3.80 inches	Volume:	55.55 bbl	Tool Weight:		2000.00 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:	527.00 ft	Diameter:	2.25 inches	Volume:	2.59 bbl	Weight to Pull Loose:		100000.0 lb
					Total Volume:	58.14 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		23.00 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		4484.00 ft						Final	70000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		63.00 ft							
Tool Length:		83.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			4469.00		
HMV	5.00			4474.00		
Packer	5.00			4479.00	20.00	Bottom Of Top Packer
Packer	5.00			4484.00		
Stubb	1.00			4485.00		
Recorder	0.00	3030	Inside	4485.00		
Perforations	25.00			4510.00		
C.O. Sub	1.00			4511.00		
Anchor	30.00			4541.00		
C.O. Sub	1.00			4542.00		
Recorder	0.00	13371	Outside	4542.00		
Bullnose	5.00			4547.00	63.00	Bottom Packers & Anchor
Total Tool Length:	**83.00**					

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15131 **DST#: 1**

Test Start: 2002.06.28 @ 00:05:20

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	28 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

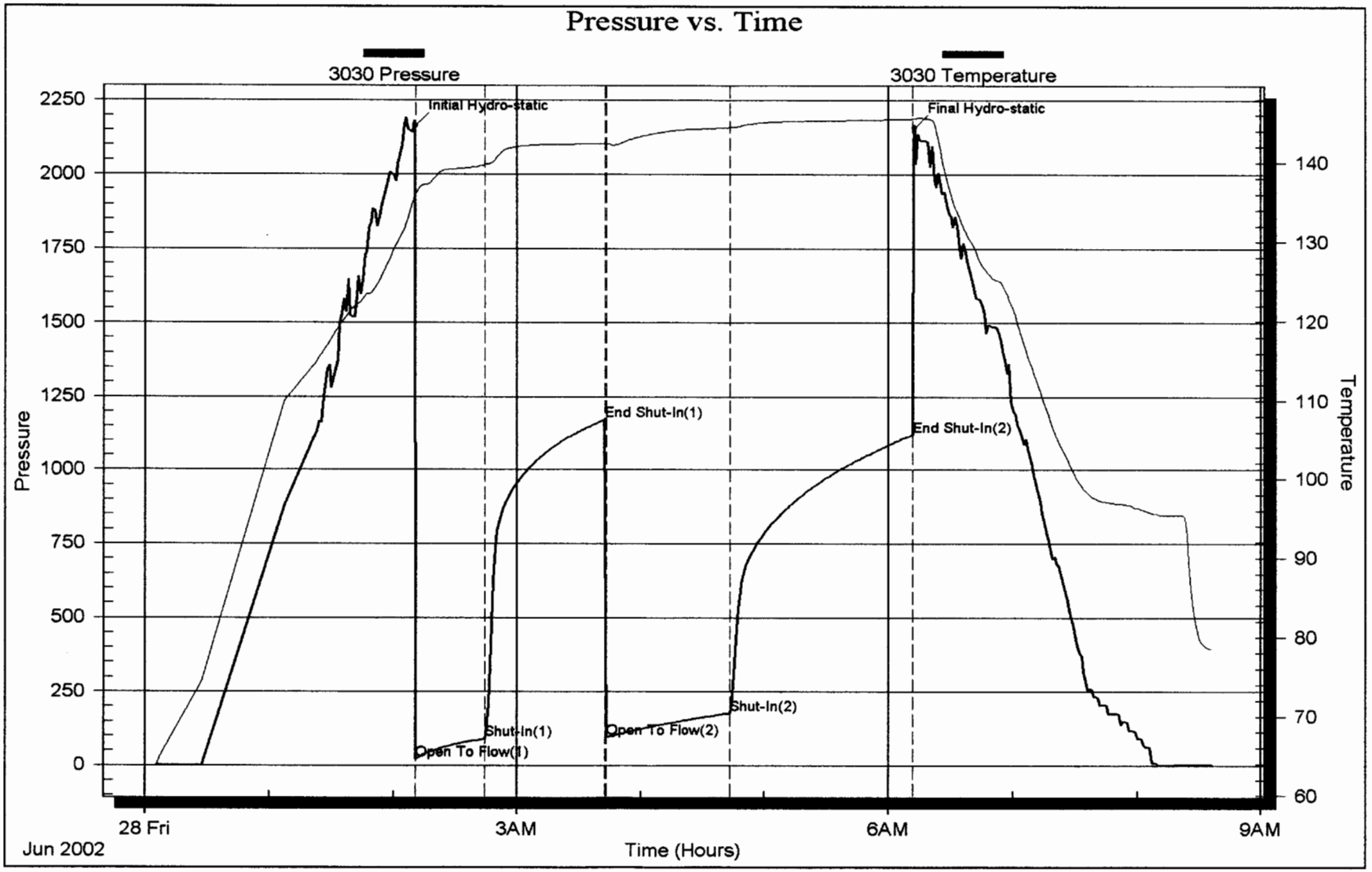
Length ft	Description	Volume bbl
260.00	CGO	1.279
180.00	SGHOCM 5%gas 45%oil 50%mud	0.885

Total Length: 440.00 ft Total Volume: 2.164 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



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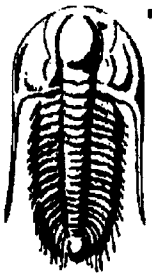

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

32-2S-41W Cheyenne K

DCLM Unit #5-32

Start Date: 2002.06.28 @ 19:32:25
End Date: 2002.06.28 @ 23:46:10
Job Ticket #: 15132 DST #: 2

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

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15132 **DST#: 2**

Test Start: 2002.06.28 @ 19:32:25

GENERAL INFORMATION:

Formation: **Lans. "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:16:55
Time Test Ended: 23:46:10

Test Type: Conventional Bottom Hole
Tester: Rod Steinbrink
Unit No: 22

Interval: 4598.00 ft (KB) To 4620.00 ft (KB) (TVD)
Total Depth: 4620.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

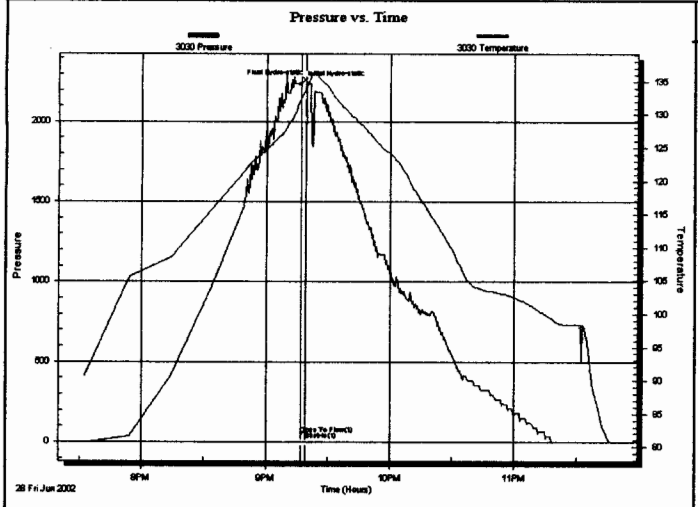
Reference Elevations: 3673.00 ft (KB)
3668.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3030 **Inside**

Press@RunDepth: psig @ 4599.00 ft (KB)
Start Date: 2002.06.28 End Date: 2002.06.28
Start Time: 19:32:27 End Time: 23:46:10

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.06.28 @ 21:16:10
Time Off Btm: 2002.06.28 @ 21:20:25

TEST COMMENT: IF; Surface to 3" - lost pkr seat @ 3 mins - tried to reset - no help



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.30	132.04	Initial Hydro-static
1	47.05	132.57	Open To Flow (1)
3	67.73	133.70	Shut-In(1)
5	2239.11	135.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	OCM 5%oil 95%mud	0.98
585.00	Drlg. Mud	5.23

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15132 **DST#: 2**

Test Start: 2002.06.28 @ 19:32:25

Tool Information

Drill Pipe:	Length:	4084.00 ft	Diameter:	3.80 inches	Volume:	57.29 bbl	Tool Weight:		2000.00 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:	527.00 ft	Diameter:	2.25 inches	Volume:	2.59 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	59.88 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		33.00 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		4598.00 ft						Final	70000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		22.00 ft							
Tool Length:		42.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			4583.00		
HMV	5.00			4588.00		
Packer	5.00			4593.00	20.00	Bottom Of Top Packer
Packer	5.00			4598.00		
Stubb	1.00			4599.00		
Recorder	0.00	3030	Inside	4599.00		
Perforations	16.00			4615.00		
Recorder	0.00	13371	Outside	4615.00		
Bullnose	5.00			4620.00	22.00	Bottom Packers & Anchor
Total Tool Length:	**42.00**					

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15132 **DST#: 2**

Test Start: 2002.06.28 @ 19:32:25

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	700.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

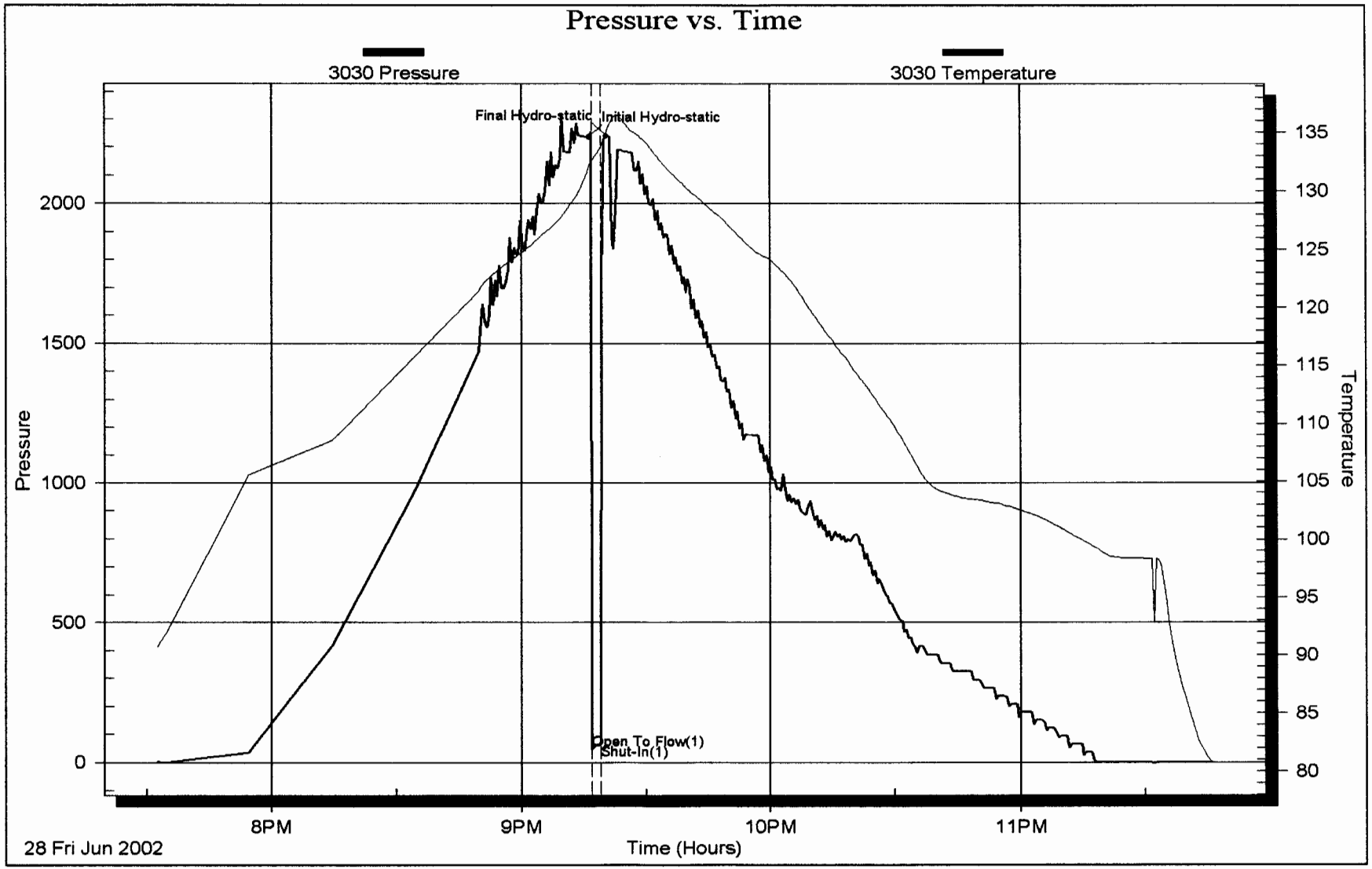
Length ft	Description	Volume bbl
200.00	OCM 5%oil 95%mud	0.984
585.00	Drlg. Mud	5.227

Total Length: 785.00 ft Total Volume: 6.211 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N Water Ste. #300
Wichita KS 67202

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ATTN: Brad Rine

32-2S-41W Cheyenne K

DCLM Unit #5-32

Start Date: 2002.06.29 @ 00:18:05
End Date: 2002.06.29 @ 08:41:05
Job Ticket #: 15133 DST #: 3

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

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15133 **DST#: 3**

Test Start: 2002.06.29 @ 00:18:05

GENERAL INFORMATION:

Formation: **Lans. 'D'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:05:35
Time Test Ended: 08:41:05

Test Type: Conventional Bottom Hole
Tester: Rod Steinbrink
Unit No: 22

Interval: 4563.00 ft (KB) To 4620.00 ft (KB) (TVD)
Total Depth: 4620.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

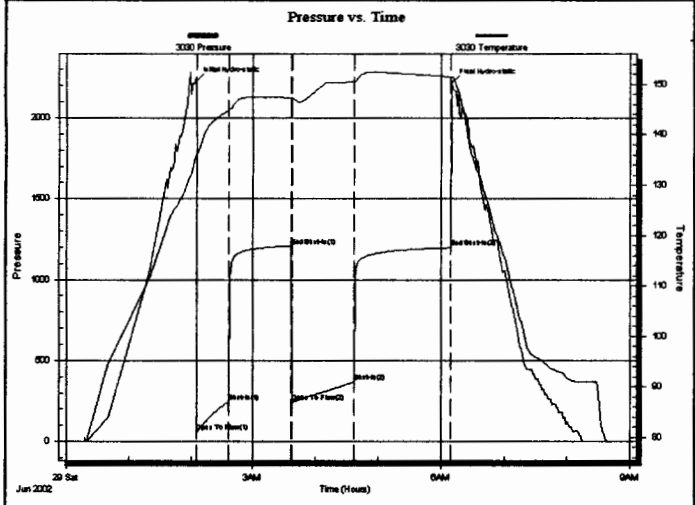
Reference Elevations: 3673.00 ft (KB)
3668.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3030 **Inside**

Press@RunDepth: 365.88 psig @ 4564.00 ft (KB)
Start Date: 2002.06.29 End Date: 2002.06.29
Start Time: 00:18:07 End Time: 08:41:05

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.06.29 @ 02:05:05
Time Off Btm: 2002.06.29 @ 06:10:05

TEST COMMENT: IF: Weak to fair off bttm in 15 mins.
ISI: Surface return steady thru
FF: Weak to fair off bttm 17 mins.
FSI: Surface return steady thru



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.44	136.04	Initial Hydro-static
1	57.42	136.27	Open To Flow (1)
32	242.09	144.80	Shut-In(1)
92	1203.72	147.38	End Shut-In(1)
93	244.57	147.35	Open To Flow (2)
152	365.88	150.56	Shut-In(2)
244	1197.07	151.49	End Shut-In(2)
245	2220.72	151.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	GIP	1.62
610.00	CGO 20%gas 80%oil	6.76
300.00	GOCM 25%gas 15%oil 60%mud	4.21

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: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15133 **DST#: 3**

Test Start: 2002.06.29 @ 00:18:05

Tool Information

Drill Pipe:	Length:	4022.00 ft	Diameter:	3.80 inches	Volume:	56.42 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	527.00 ft	Diameter:	2.25 inches	Volume:	2.59 bbl	
					Total Volume:	59.01 bbl	

Drill Pipe Above KB:	6.00 ft
Depth to Top Packer:	4563.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	57.00 ft
Tool Length:	77.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2000.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	80000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	70000.00 lb
Final	760000.0 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			4548.00		
HMV	5.00			4553.00		
Packer	5.00			4558.00	20.00	Bottom Of Top Packer
Packer	5.00			4563.00		
Stubb	1.00			4564.00		
Recorder	0.00	3030	Inside	4564.00		
Perforations	19.00			4583.00		
C.O. Sub	1.00			4584.00		
Anchor	30.00			4614.00		
C.O. Sub	1.00			4615.00		
Recorder	0.00	13371	Outside	4615.00		
Bullnose	5.00			4620.00	57.00	Bottom Packers & Anchor
Total Tool Length:	**77.00**					

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15133 **DST#: 3**

Test Start: 2002.06.29 @ 00:18:05

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	25 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

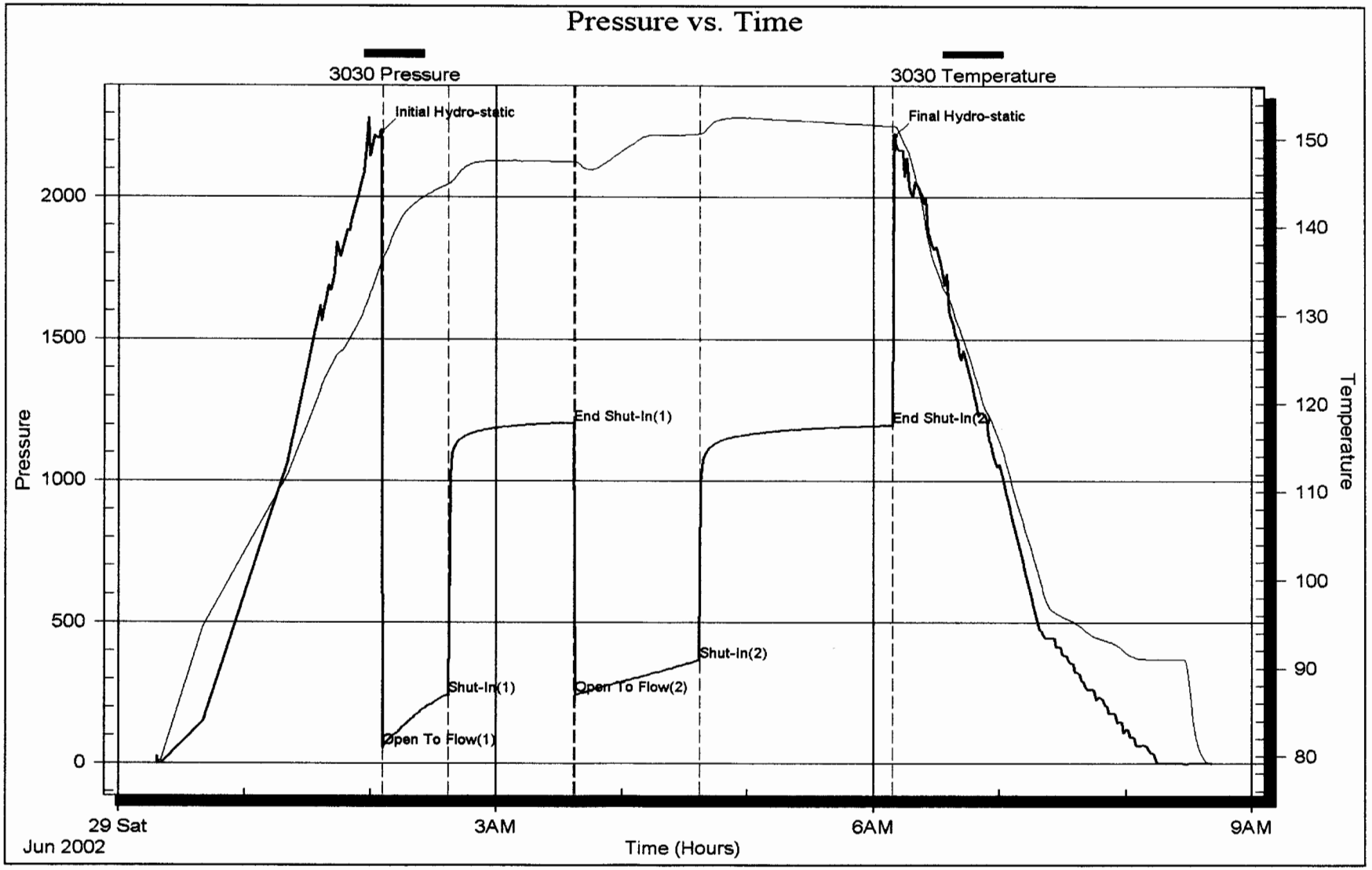
Length ft	Description	Volume bbl
330.00	GIP	1.623
610.00	CGO 20%gas 80%oil	6.762
300.00	GOCM 25%gas 15%oil 60%mud	4.208

Total Length: 1240.00 ft Total Volume: 12.593 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

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250 N Water Ste. #300
Wichita KS 67202

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ATTN: Brad Rine

32-2S-41W Cheyenne K

DCLM Unit #5-32

Start Date: 2002.06.30 @ 06:55:49

End Date: 2002.06.30 @ 13:30:34

Job Ticket #: 15134 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company Inc. DCLM Unit #5-32 32-2S-41W Cheyenne K DST # 4 Lans. "J" 2002.06.30

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15134 **DST#: 4**

Test Start: 2002.06.30 @ 06:55:49

GENERAL INFORMATION:

Formation: **Lans. "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:48:04
Time Test Ended: 13:30:34

Test Type: Conventional Bottom Hole
Tester: Rod Steinbrink
Unit No: 22

Interval: 5710.00 ft (KB) To 4762.00 ft (KB) (TVD)
Total Depth: 4762.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

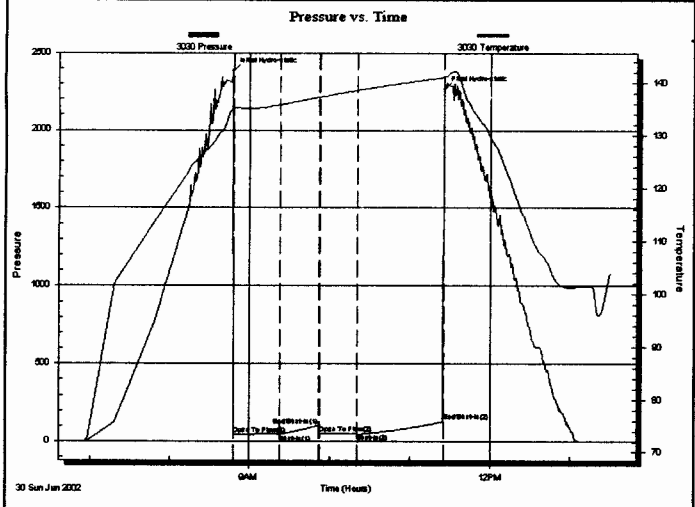
Reference Elevations: 3673.00 ft (KB)
3668.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3030 **Inside**

Press@RunDepth: 47.95 psig @ 4711.00 ft (KB)
Start Date: 2002.06.30 End Date: 2002.06.30
Start Time: 06:55:51 End Time: 13:30:34

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.06.30 @ 08:47:19
Time Off Btm: 2002.06.30 @ 11:25:34

TEST COMMENT: IF; Weak surface blow died in 12 mins.
FF; No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2380.78	135.15	Initial Hydro-static
1	44.80	135.31	Open To Flow (1)
36	45.84	135.84	Shut-In(1)
65	102.32	137.30	End Shut-In(1)
66	47.33	137.33	Open To Flow (2)
94	47.95	138.62	Shut-In(2)
158	128.32	141.09	End Shut-In(2)
159	2264.24	141.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drlg. Mud	0.34

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: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15134 **DST#: 4**

Test Start: 2002.06.30 @ 06:55:49

Tool Information

Drill Pipe:	Length:	4180.00 ft	Diameter:	3.80 inches	Volume:	58.63 bbl	Tool Weight:		2000.00 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:	527.00 ft	Diameter:	2.25 inches	Volume:	2.59 bbl	Weight to Pull Loose:		100000.0 lb
					Total Volume:	61.22 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		17.00 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		4710.00 ft						Final	70000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		52.00 ft							
Tool Length:		72.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			4695.00		
HMV	5.00			4700.00		
Packer	5.00			4705.00	20.00	Bottom Of Top Packer
Packer	5.00			4710.00		
Stubb	1.00			4711.00		
Recorder	0.00	3030	Inside	4711.00		
Perforations	14.00			4725.00		
C.O. Sub	1.00			4726.00		
Anchor	30.00			4756.00		
C.O. Sub	1.00			4757.00		
Recorder	0.00	13371	Outside	4757.00		
Bullnose	5.00			4762.00	52.00	Bottom Packers & Anchor
Total Tool Length:	**72.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15134 **DST#: 4**

Test Start: 2002.06.30 @ 06:55:49

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	700.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Drlg. Mud	0.344

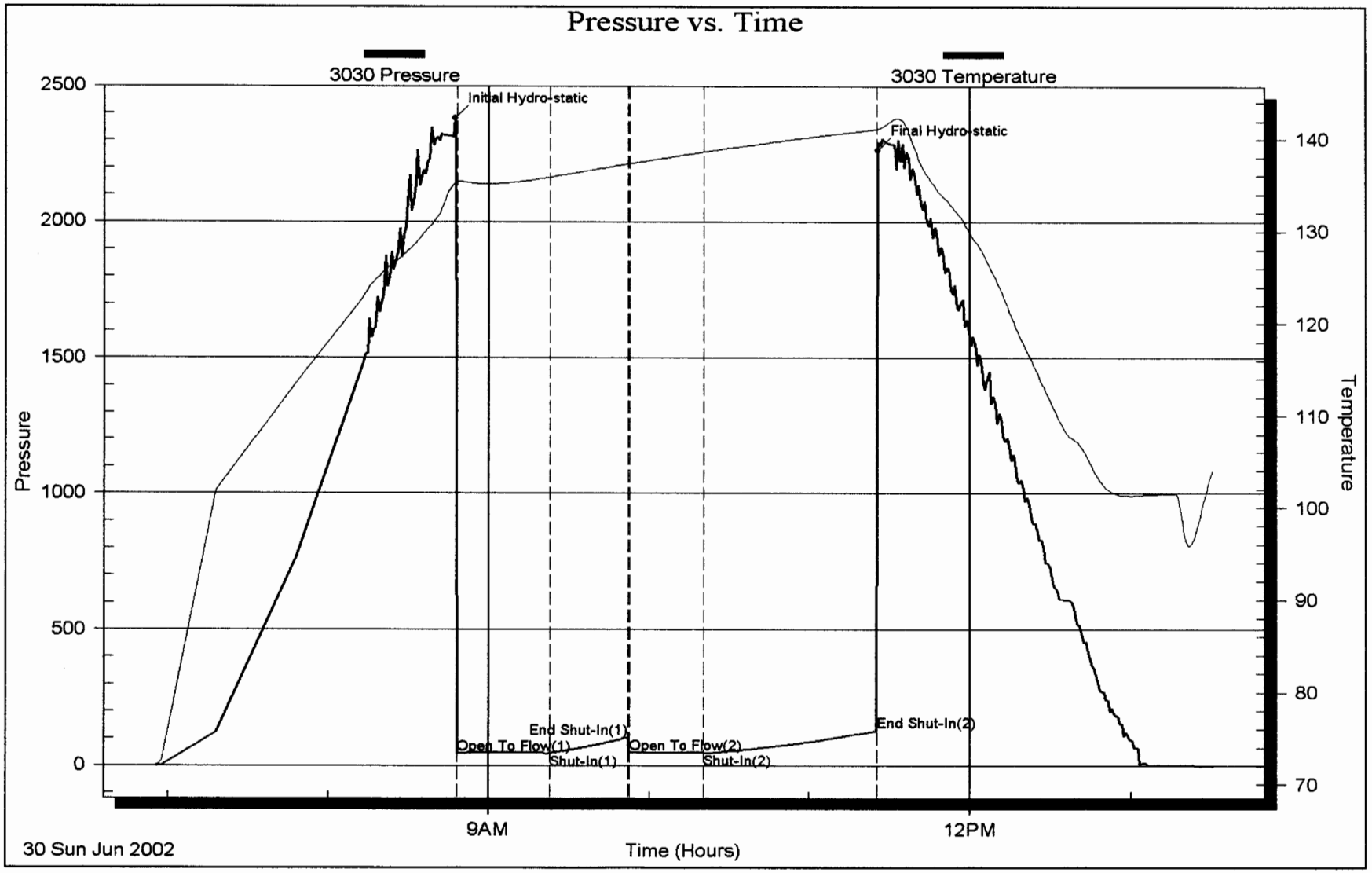
Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 3030 **Inside** Murfin Drilling Company Inc. 32-2S-41W Cheyenne K DST Test Number: 4



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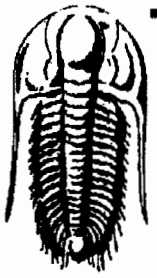

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N Water Ste. #300
Wichita KS 67202

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ATTN: Brad Rine

32-2S-41W Cheyenne K

DCLM Unit #5-32

Start Date: 2002.07.02 @ 01:25:04
End Date: 2002.07.02 @ 10:42:33
Job Ticket #: 15114 DST #: 5

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

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15114 **DST#: 5**

Test Start: 2002.07.02 @ 01:25:04

GENERAL INFORMATION:

Formation: **marm,paw,ft scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:13:48
Time Test Ended: 10:42:33

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 15

Interval: 4952.00 ft (KB) To 5060.00 ft (KB) (TVD)
Total Depth: 5060.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

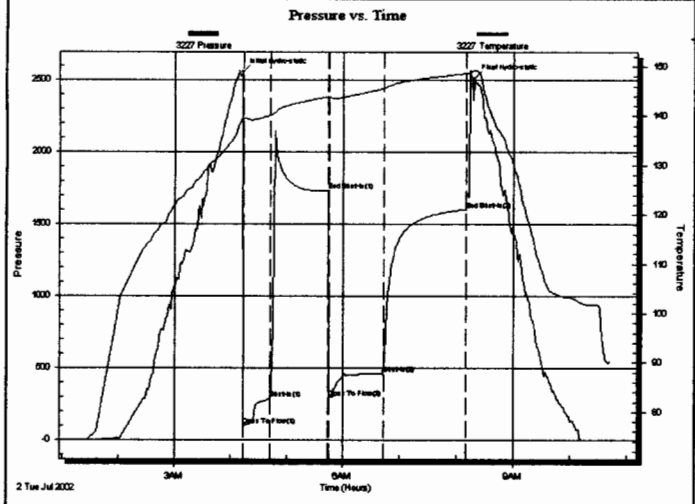
Reference Elevations: 3673.00 ft (KB)
3668.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3227

Press@RunDepth: 461.27 psig @ 4953.00 ft (KB)
Start Date: 2002.07.02 End Date: 2002.07.02
Start Time: 01:25:04 End Time: 10:42:33

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.07.02 @ 04:13:33
Time Off Btm: 2002.07.02 @ 08:18:03

TEST COMMENT: 1/2"in. @ open built to 6"in.
No return
Blow in 3 min , B.O.B. in 10 min , died back to 10 1/2"in.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2553.44	139.51	Initial Hydro-static
1	98.46	139.37	Open To Flow (1)
30	288.90	140.19	Shut-In(1)
91	1730.58	143.91	End Shut-In(1)
91	296.29	143.79	Open To Flow (2)
150	461.27	145.60	Shut-In(2)
236	1602.36	148.62	End Shut-In(2)
245	2509.72	149.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
900.00	drilling mud 100%mud	7.80

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: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15114 **DST#: 5**

Test Start: 2002.07.02 @ 01:25:04

Tool Information

Drill Pipe:	Length:	4425.00 ft	Diameter:	3.80 inches	Volume:	62.07 bbl	Tool Weight:		1500.00 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:	530.00 ft	Diameter:	2.25 inches	Volume:	2.61 bbl	Weight to Pull Loose:		84000.00 lb
					Total Volume:	64.68 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight:	Initial	64000.00 lb
Depth to Top Packer:		4952.00 ft						Final	67000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		108.00 ft							
Tool Length:		135.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			4926.00		
S.I. Tool	5.00			4931.00		
HMV	5.00			4936.00		
Jars	5.00			4941.00		
Safety Joint	2.00			4943.00		
Packer	5.00			4948.00	27.00	Bottom Of Top Packer
Packer	4.00			4952.00		
Stubb	1.00			4953.00		
Recorder	0.00	3227		4953.00		
Perforations	38.00	24174		4991.00		
C.O. Sub	1.00			4992.00		
drillpipe	62.00			5054.00		
C.O. Sub	1.00			5055.00		
Recorder	0.00	11057	Outside	5055.00		
Bullnose	5.00			5060.00	108.00	Bottom Packers & Anchor
Total Tool Length:	**135.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

250 N Water Ste. #300
Wichita KS 67202

ATTN: Brad Rine

DCLM Unit #5-32

32-2S-41W Cheyenne K

Job Ticket: 15114 **DST#: 5**

Test Start: 2002.07.02 @ 01:25:04

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:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	700.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

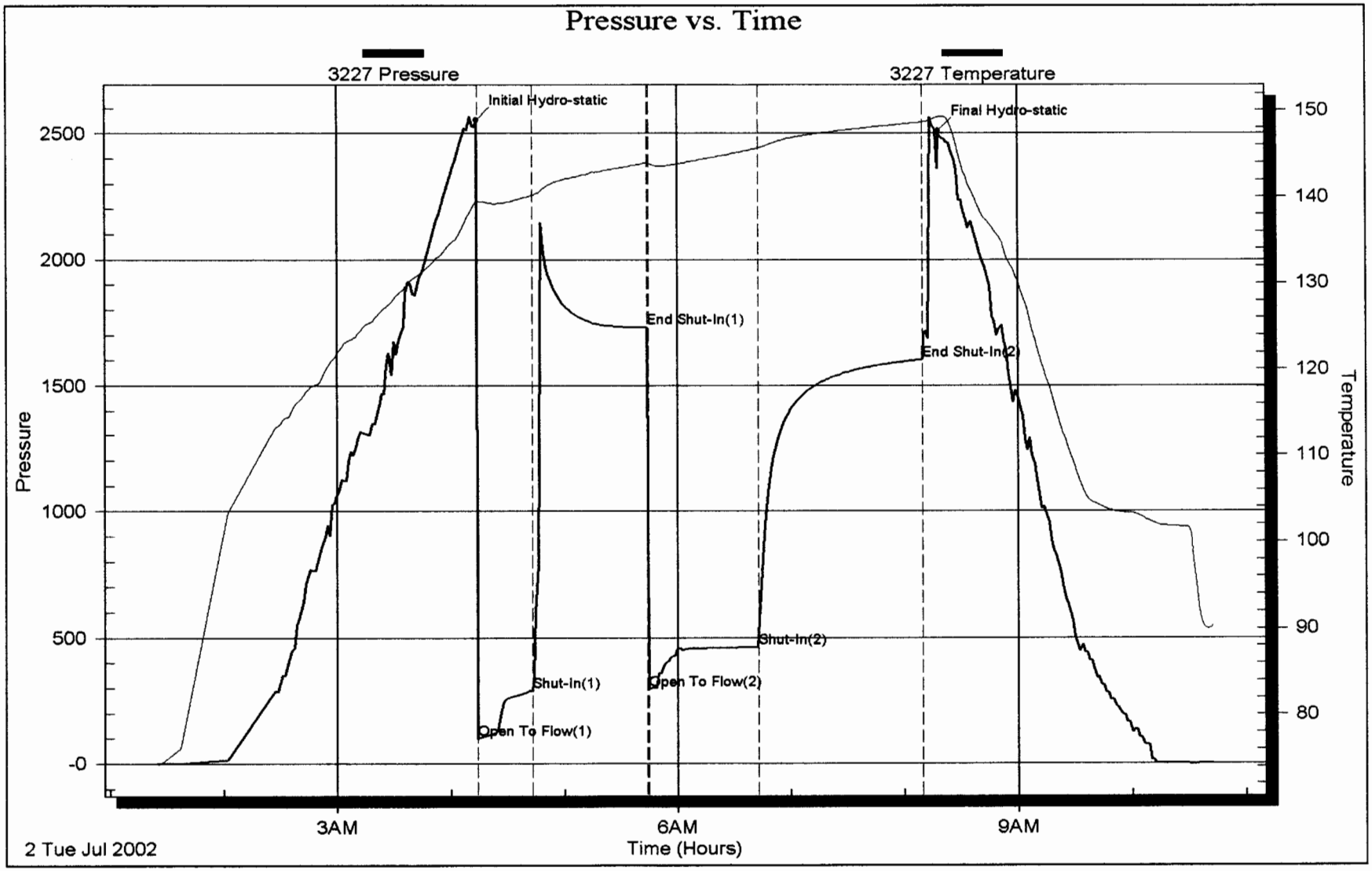
Length ft	Description	Volume bbl
900.00	drilling mud 100%mud	7.797

Total Length: 900.00 ft Total Volume: 7.797 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



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