15-023-21029 2-3s-41w

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

2 3S 41W Cheyenne KS

Dennis # 1-2

Start Date: 2008.06.17 @ 23:48:48
End Date: 2008.06.18 @ 06:41:48
Job Ticket #: 32105 DST #: 1

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WICHITA, KS

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

Murfin Drilling Co Inc
Dennis # 1-2
2 3S 41W Cheyenne KS
DST # 1
Lans. "A-D"
2008.06.17

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Dennis # 1-2

2 3S 41W Cheyenne KS

Job Ticket: 32105 **DST#: 1**

Test Start: 2008.06.17 @ 23:48:48

GENERAL INFORMATION:

Formation: **Lans. "A-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:07:18
Time Test Ended: 06:41:48

Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 36

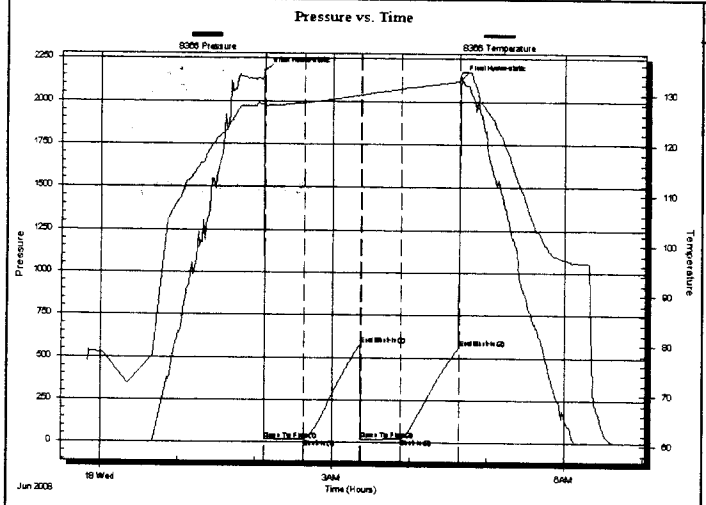
Interval: 4351.00 ft (KB) To 4475.00 ft (KB) (TVD)
Total Depth: 4475.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3553.00 ft (KB)
3548.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8366 **Inside**
Press@RunDepth: 22.12 psig @ 4352.00 ft (KB)
Start Date: 2008.06.17 End Date: 2008.06.18
Start Time: 23:48:53 End Time: 06:41:47

Capacity: 7000.00 psig
Last Calib.: 2008.06.18
Time On Btm: 2008.06.18 @ 02:06:48
Time Off Btm: 2008.06.18 @ 04:39:48

TEST COMMENT: IF Blow built to 1/4 " dead in 19 min.
ISI No blow back
FF No blow
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.82	128.03	Initial Hydro-static
1	16.23	127.45	Open To Flow (1)
31	18.88	128.30	Shut-In(1)
75	578.95	129.90	End Shut-In(1)
76	20.30	129.84	Open To Flow (2)
106	22.12	131.21	Shut-In(2)
152	561.13	132.66	End Shut-In(2)
153	2134.40	134.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	100%DM	0.03

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Dennis # 1-2

2 3S 41W Cheyenne KS

Job Ticket: 32105 **DST#: 1**

Test Start: 2008.06.17 @ 23:48:48

Tool Information

Drill Pipe:	Length:	3811.00 ft	Diameter:	3.80 inches	Volume:	53.46 bbl	Tool Weight:		1800.00 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:	547.00 ft	Diameter:	2.25 inches	Volume:	2.69 bbl	Weight to Pull Loose:		85000.00 lb
					Total Volume:	56.15 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		27.00 ft					String Weight:	Initial	72000.00 lb
Depth to Top Packer:		4351.00 ft						Final	72000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		124.00 ft							
Tool Length:		144.00 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			4336.00		
Hydraulic tool	5.00			4341.00		
Packer	5.00			4346.00	20.00	Bottom Of Top Packer
Packer	5.00			4351.00		
Stubb	1.00			4352.00		
Recorder	0.00	8366	Inside	4352.00		
Recorder	0.00	8320	Inside	4352.00		
Perforations	18.00			4370.00		
Blank Spacing	95.00			4465.00		
Perforations	7.00			4472.00		
Bullnose	3.00			4475.00	124.00	Bottom Packers & Anchor
Total Tool Length:	**144.00**					

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WICHITA, KS

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Dennis # 1-2

2 3S 41W Cheyenne KS

Job Ticket: 32105 **DST#: 1**

Test Start: 2008.06.17 @ 23:48:48

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:	6.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	inches				

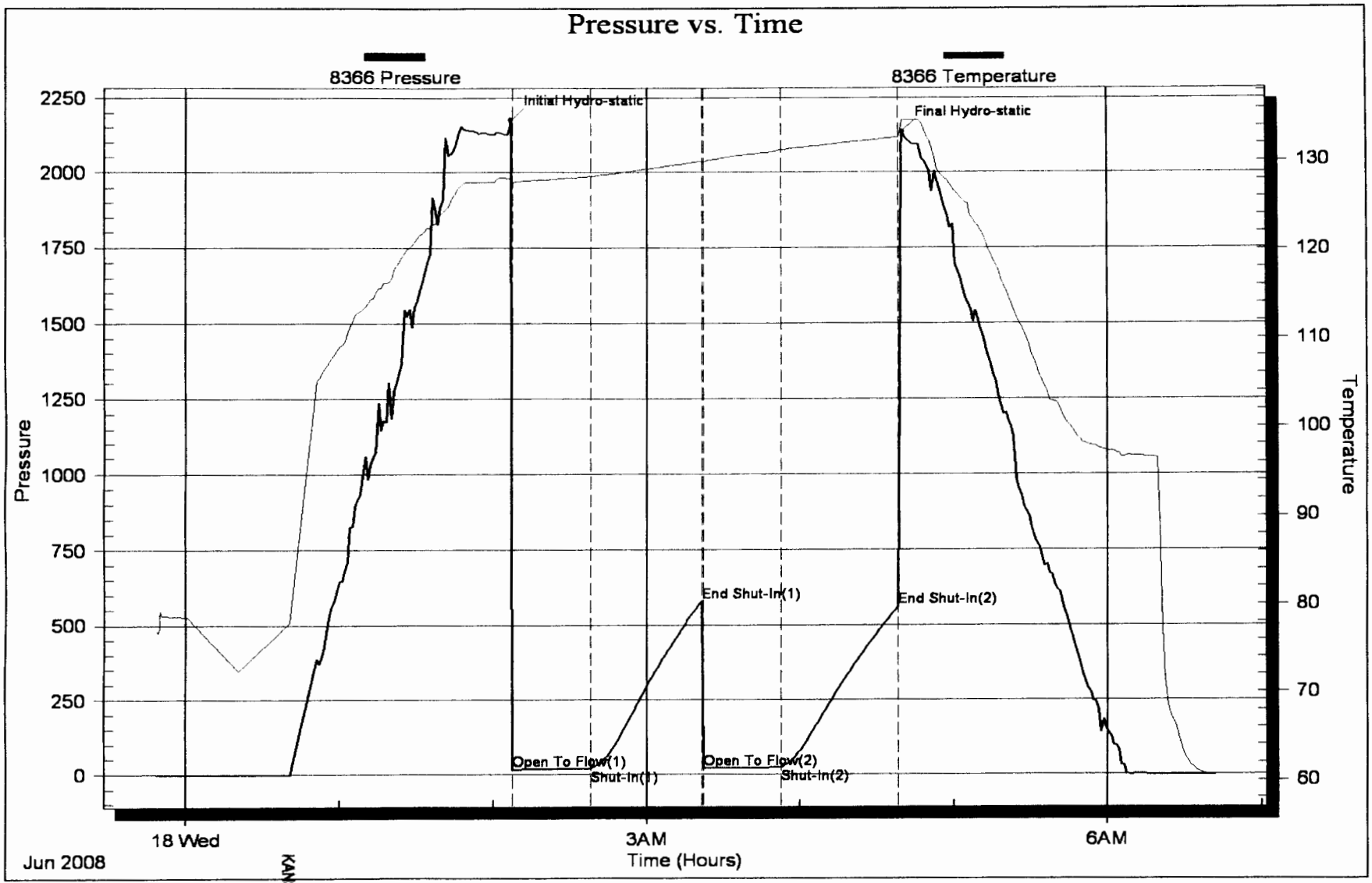
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	100%DM	0.030

Total Length: 6.00 ft Total Volume: 0.030 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



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WICHITA, KS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

2 3S 41W Cheyenne KS

Dennis # 1-2

Start Date: 2008.06.18 @ 21:08:57
End Date: 2008.06.19 @ 04:20:57
Job Ticket #: 32106 DST #: 2

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

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WICHITA, KS

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Dennis # 1-2

2 3S 41W Cheyenne KS

Job Ticket: 32106 **DST#: 2**

Test Start: 2008.06.18 @ 21:08:57

GENERAL INFORMATION:

Formation: **Lans. "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:13:57
Time Test Ended: 04:20:57

Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 36

Interval: 4568.00 ft (KB) To 4619.00 ft (KB) (TVD)
Total Depth: 4619.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

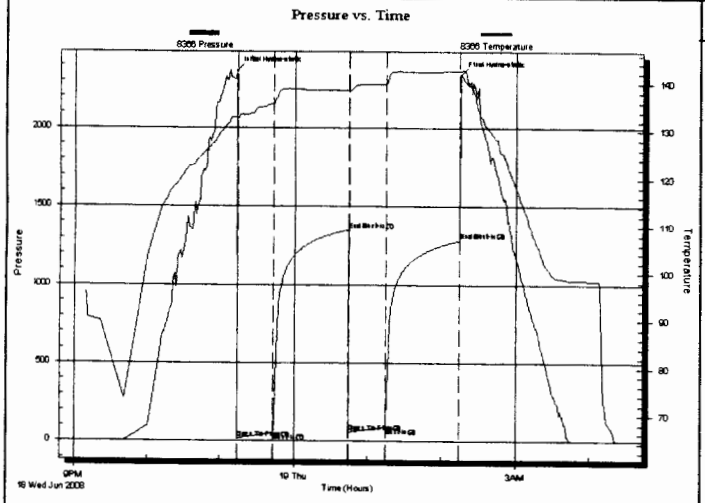
Reference Elevations: 3553.00 ft (KB)
3548.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8366 **Inside**

Press@RunDepth: 87.45 psig @ 4569.00 ft (KB)
Start Date: 2008.06.18 End Date: 2008.06.19
Start Time: 21:09:02 End Time: 04:20:56

Capacity: 7000.00 psig
Last Calib.: 2008.06.19
Time On Btm: 2008.06.18 @ 23:13:27
Time Off Btm: 2008.06.19 @ 02:15:27

TEST COMMENT: IF Blow built to 2 1/2 "
ISI Bled off no blow back
FF @ 21 min. blow built to 1/4 "
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2359.16	133.07	Initial Hydro-static
1	15.45	132.66	Open To Flow (1)
31	53.02	135.81	Shut-In(1)
91	1350.78	138.55	End Shut-In(1)
91	56.66	138.16	Open To Flow (2)
121	87.45	139.89	Shut-In(2)
181	1284.30	142.76	End Shut-In(2)
182	2334.95	142.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	VSOCM 99%M 1%O	0.64

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Dennis # 1-2

2 3S 41W Cheyenne KS

Job Ticket: 32106 **DST#: 2**

Test Start: 2008.06.18 @ 21:08:57

Tool Information

Drill Pipe:	Length:	4029.00 ft	Diameter:	3.80 inches	Volume:	56.52 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	547.00 ft	Diameter:	2.25 inches	Volume:	2.69 bbl	
					Total Volume:	59.21 bbl	

Drill Pipe Above KB:	28.00 ft
Depth to Top Packer:	4568.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	51.00 ft
Tool Length:	71.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:		1500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		90000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	72000.00 lb
	Final	72000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4553.00		
Hydraulic tool	5.00			4558.00		
Packer	5.00			4563.00	20.00	Bottom Of Top Packer
Packer	5.00			4568.00		
Stubb	1.00			4569.00		
Recorder	0.00	8366	Inside	4569.00		
Recorder	0.00	8320	Inside	4569.00		
Perforations	10.00			4579.00		
Blank Spacing	32.00			4611.00		
Perforations	5.00			4616.00		
Bullnose	3.00			4619.00	51.00	Bottom Packers & Anchor
Total Tool Length:	**71.00**					

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Dennis # 1-2

2 3S 41W Cheyenne KS

Job Ticket: 32106 **DST#: 2**

Test Start: 2008.06.18 @ 21:08:57

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:	6.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

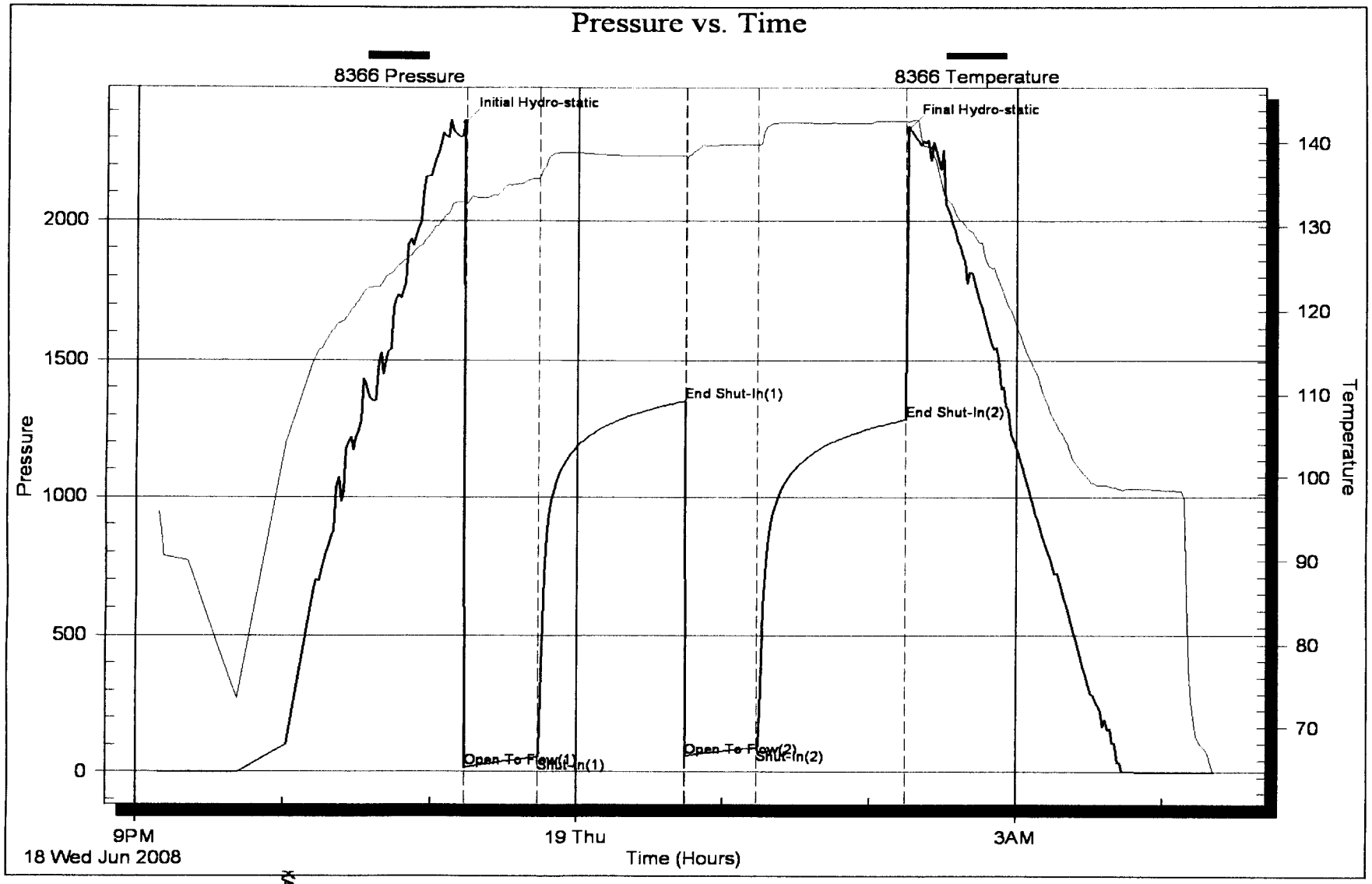
Length ft	Description	Volume bbl
130.00	VSOCM 99%M 1%O	0.639

Total Length: 130.00 ft Total Volume: 0.639 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 Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

2 3S 41W Cheyenne KS

Dennis # 1-2

Start Date: 2008.06.19 @ 12:40:05

End Date: 2008.06.19 @ 19:44:35

Job Ticket #: 32107 DST #: 3

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DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Dennis # 1-2

2 3S 41W Cheyenne KS

Job Ticket: 32107 **DST#: 3**

Test Start: 2008.06.19 @ 12:40:05

GENERAL INFORMATION:

Formation: **Lans. "K siltstone -**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:51:05
Time Test Ended: 19:44:35

Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 36

Interval: 4614.00 ft (KB) To 4670.00 ft (KB) (TVD)
Total Depth: 4670.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

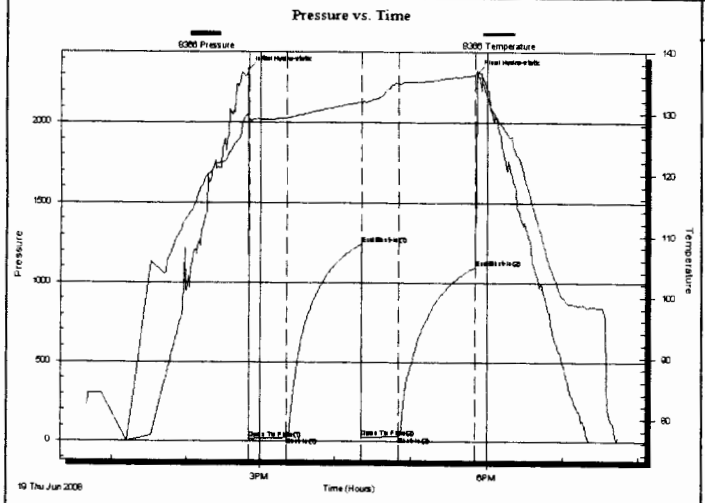
Reference Elevations: 3553.00 ft (KB)
3548.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8366 **Inside**

Press@RunDepth: 32.18 psig @ 4615.00 ft (KB)
Start Date: 2008.06.19 End Date: 2008.06.19
Start Time: 12:40:10 End Time: 19:44:34

Capacity: 7000.00 psig
Last Calib.: 2008.06.19
Time On Btm: 2008.06.19 @ 14:50:35
Time Off Btm: 2008.06.19 @ 17:52:05

TEST COMMENT: IF Blow built to 3/4 " in 15 min. blew steady at 3/4 " until closed
ISI Bled off no blow back
FF No blow
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2328.10	130.02	Initial Hydro-static
1	13.64	128.39	Open To Flow (1)
31	23.60	129.20	Shut-In(1)
91	1239.47	131.84	End Shut-In(1)
91	25.70	131.41	Open To Flow (2)
120	32.18	134.76	Shut-In(2)
180	1098.03	136.22	End Shut-In(2)
182	2308.07	137.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100%DM	0.15

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Dennis # 1-2

2 3S 41W Cheyenne KS

Job Ticket: 32107 **DST#: 3**

Test Start: 2008.06.19 @ 12:40:05

Tool Information

Drill Pipe:	Length:	4062.00 ft	Diameter:	3.80 inches	Volume:	56.98 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:	25000.00 lb
Drill Collar:	Length:	547.00 ft	Diameter:	2.25 inches	Volume:	2.69 bbl	Weight to Pull Loose:	90000.00 lb
					Total Volume:	59.67 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		15.00 ft					String Weight: Initial	75000.00 lb
Depth to Top Packer:		4614.00 ft					Final	75000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		56.00 ft						
Tool Length:		76.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4599.00		
Hydraulic tool	5.00			4604.00		
Packer	5.00			4609.00	20.00	Bottom Of Top Packer
Packer	5.00			4614.00		
Stubb	1.00			4615.00		
Recorder	0.00	8366	Inside	4615.00		
Recorder	0.00	8320	Inside	4615.00		
Perforations	15.00			4630.00		
Blank Spacing	32.00			4662.00		
Perforations	5.00			4667.00		
Bullnose	3.00			4670.00	56.00	Bottom Packers & Anchor
Total Tool Length:	**76.00**					

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Dennis # 1-2

2 3S 41W Cheyenne KS

Job Ticket: 32107 **DST#: 3**

Test Start: 2008.06.19 @ 12:40:05

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	inches				

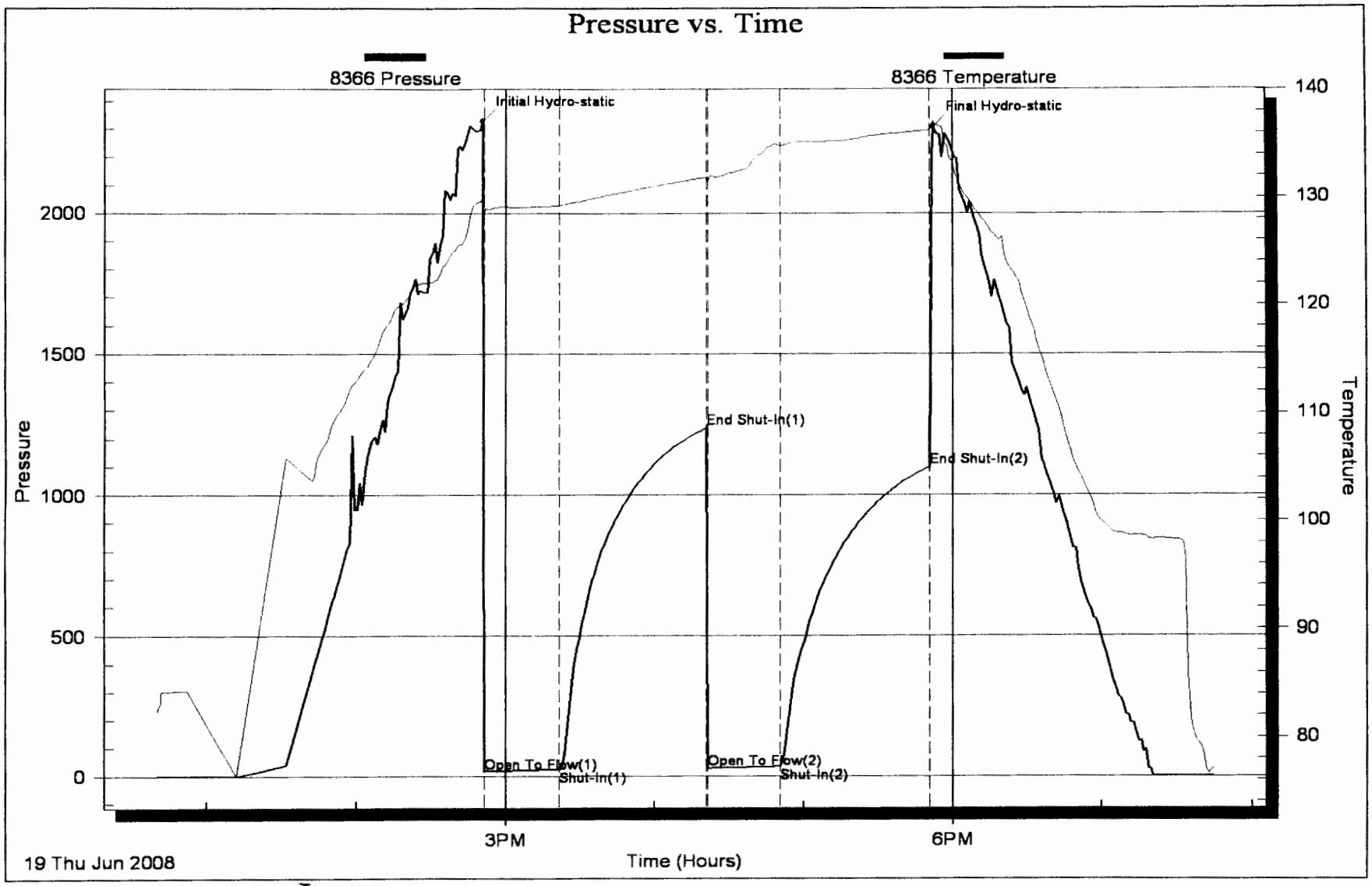
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100%DM	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



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