33-2-41W

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Comp**

250 N Water St, Ste 300
Wichita, KS 67202

KCC
DEC 13 2002
CONFIDENTIAL

ATTN: Murfin Drilling Comp

33-2-41 Cheyenne,Ks

Ramona #3-33

Start Date: 2002.10.31 @ 05:25:44
End Date: 2002.10.31 @ 13:36:28
Job Ticket #: 15199 DST #: 1

Murfin Drilling Comp | Ramona #3-33 | 33-2-41 Cheyenne,Ks | DST # 1 | "A" | 2002.10.31

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15199 **DST#: 1**

Test Start: 2002.10.31 @ 05:25:44

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GENERAL INFORMATION:

Formation: "A"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:58:43
Time Test Ended: 13:36:28

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

Interval: 4494.00 ft (KB) To 4555.00 ft (KB) (TVD)
Total Depth: 4555.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

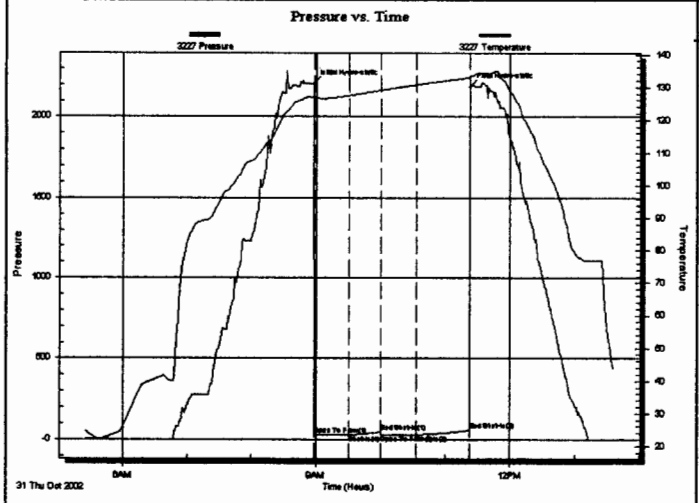
Reference Elevations: 3666.00 ft (KB)
3661.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3227 **Inside**

Press@RunDepth: 29.51 psig @ 4495.00 ft (KB)
Start Date: 2002.10.31 End Date: 2002.10.31
Start Time: 05:25:44 End Time: 13:36:28

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.10.31 @ 08:57:58
Time Off Btm: 2002.10.31 @ 11:22:28

TEST COMMENT: IF-Weak blow died in 7 min.
ISI-No return
FF-No blow
FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2201.58	127.01	Initial Hydro-static
1	26.58	126.91	Open To Flow (1)
33	28.32	127.42	Shut-In(1)
63	46.45	129.05	End Shut-In(1)
63	29.11	129.07	Open To Flow (2)
95	29.51	130.71	Shut-In(2)
145	59.51	132.87	End Shut-In(2)
145	2185.36	133.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	drilling mud 100%m	0.01

Gas Rates

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

Ramona #3-33

33-2-41 Cheyenne, CO

Job Ticket: 15199 DST#: 1

ATTN: Murfin Drilling Comp

Test Start: 2002.10.31 @ 05:25:44

Tool Information

Drill Pipe:	Length:	3985.00 ft	Diameter:	3.80 inches	Volume:	55.90 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:	517.00 ft	Diameter:	2.25 inches	Volume:	2.54 bbl	Weight to Pull Loose:		70000.00 lb
					Total Volume:	58.44 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight:	Initial	60000.00 lb
Depth to Top Packer:		4494.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		61.00 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	
C.O. Sub	1.00			4473.00		
S.I. Tool	5.00			4478.00		
HMV	5.00			4483.00		
Safety Joint	2.00			4485.00		
Packer	5.00			4490.00	22.00	Bottom Of Top Packer
Packer	4.00			4494.00		
Stubb	1.00			4495.00		
Recorder	0.00	3227	Inside	4495.00		
Perforations	21.00			4516.00		
C.O. Sub	1.00			4517.00		
drillpipe	32.00			4549.00		
C.O. Sub	1.00			4550.00		
Recorder	0.00	11057	Outside	4550.00		
Bullnose	5.00			4555.00	61.00	Bottom Packers & Anchor
Total Tool Length:	**83.00**					

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15199 **DST#: 1**

Test Start: 2002.10.31 @ 05:25:44

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.75 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

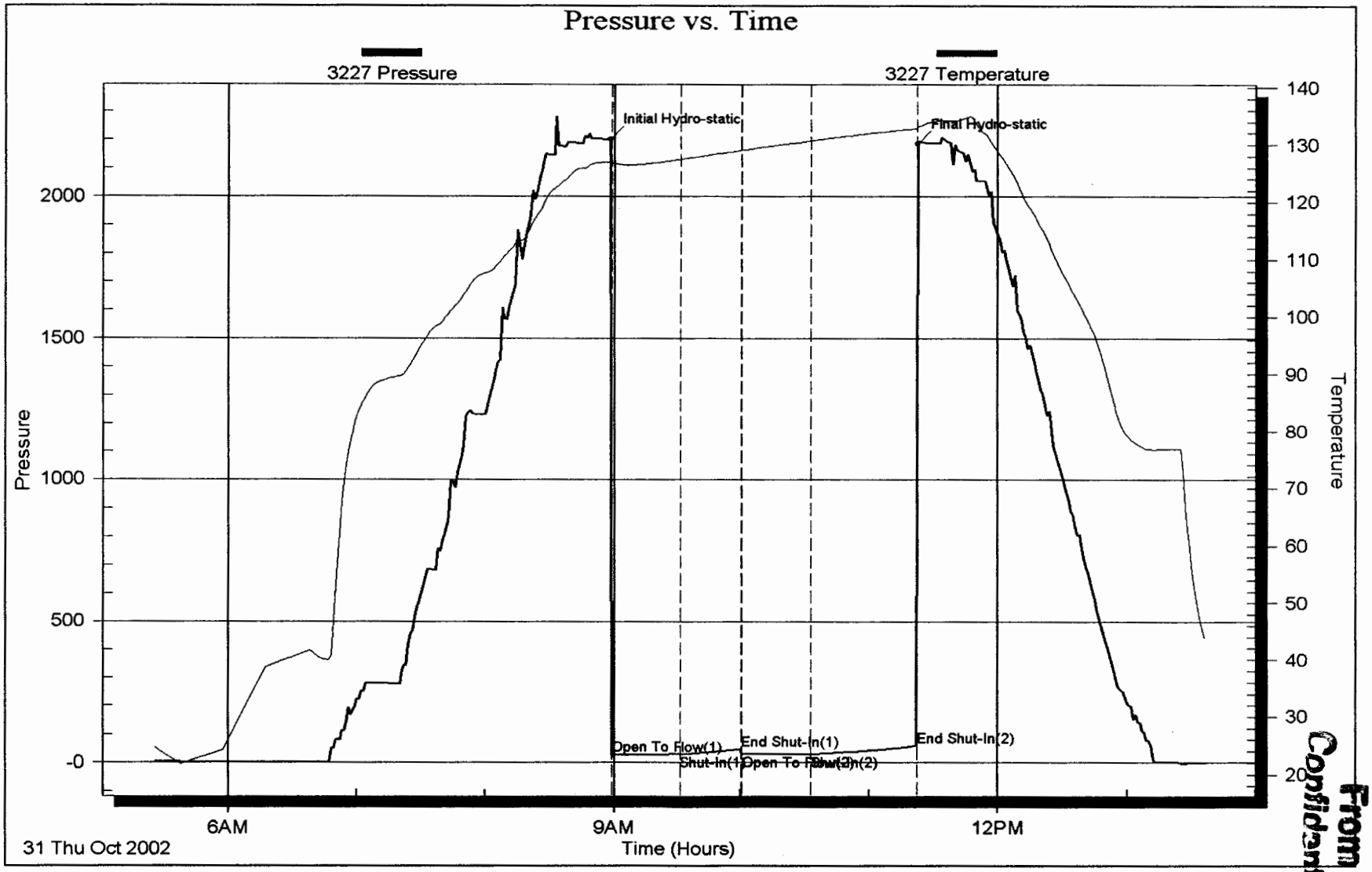
Length ft	Description	Volume bbl
2.00	drilling mud 100%m	0.010

Total Length: 2.00 ft Total Volume: 0.010 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 Comp**

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

33-2-41 Cheyenne,Ks

Ramona #3-33

Start Date: 2002.10.31 @ 22:53:41
End Date: 2002.11.01 @ 05:00:55
Job Ticket #: 15200 DST #: 2

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

DRILL STEM TEST REPORT

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15200 **DST#: 2**

Test Start: 2002.10.31 @ 22:53:41

GENERAL INFORMATION:

Formation: D
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:20:00
Time Test Ended: 05:00:55

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

Interval: 4550.00 ft (KB) To 4616.00 ft (KB) (TVD)
Total Depth: 4616.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

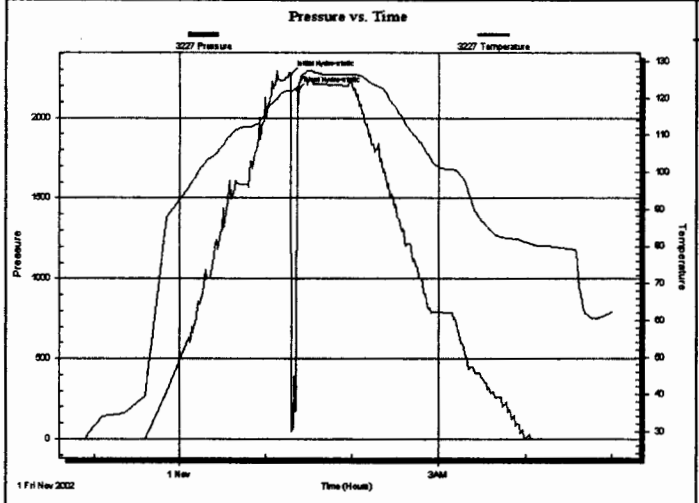
Reference Elevations: 3666.00 ft (KB)
3661.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3227 **Inside**

Press@RunDepth: psig @ 4551.00 ft (KB)
Start Date: 2002.10.31 End Date: 2002.11.01
Start Time: 22:53:41 End Time: 05:00:55

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.11.01 @ 01:17:40
Time Off Btm: 2002.11.01 @ 01:21:55

TEST COMMENT: 2 "in blow , lost packer seat 5 min. into flow , pull tool, reset, failed again, pull tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2268.79	122.02	Initial Hydro-static
5	2172.32	123.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
880.00	mud 100%m	7.63

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 Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15200 **DST#: 2**

Test Start: 2002.10.31 @ 22:53:41

Tool Information

Drill Pipe:	Length:	4016.00 ft	Diameter:	3.80 inches	Volume:	56.33 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:	517.00 ft	Diameter:	2.25 inches	Volume:	2.54 bbl	Weight to Pull Loose:		75000.00 lb
					Total Volume:	58.87 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		5.00 ft					String Weight:	Initial	60000.00 lb
Depth to Top Packer:		4550.00 ft						Final	63000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		66.00 ft							
Tool Length:		88.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			4529.00		
S.I. Tool	5.00			4534.00		
HMV	5.00			4539.00		
Safety Joint	2.00			4541.00		
Packer	5.00			4546.00	22.00	Bottom Of Top Packer
Packer	4.00			4550.00		
Stubb	1.00			4551.00		
Recorder	0.00	3227	Inside	4551.00		
Perforations	26.00			4577.00		
C.O. Sub	1.00			4578.00		
drillpipe	32.00			4610.00		
C.O. Sub	1.00			4611.00		
Recorder	0.00	11057	Outside	4611.00		
Bullnose	5.00			4616.00	66.00	Bottom Packers & Anchor
Total Tool Length:	**88.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15200 **DST#: 2**

Test Start: 2002.10.31 @ 22:53:41

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.76 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

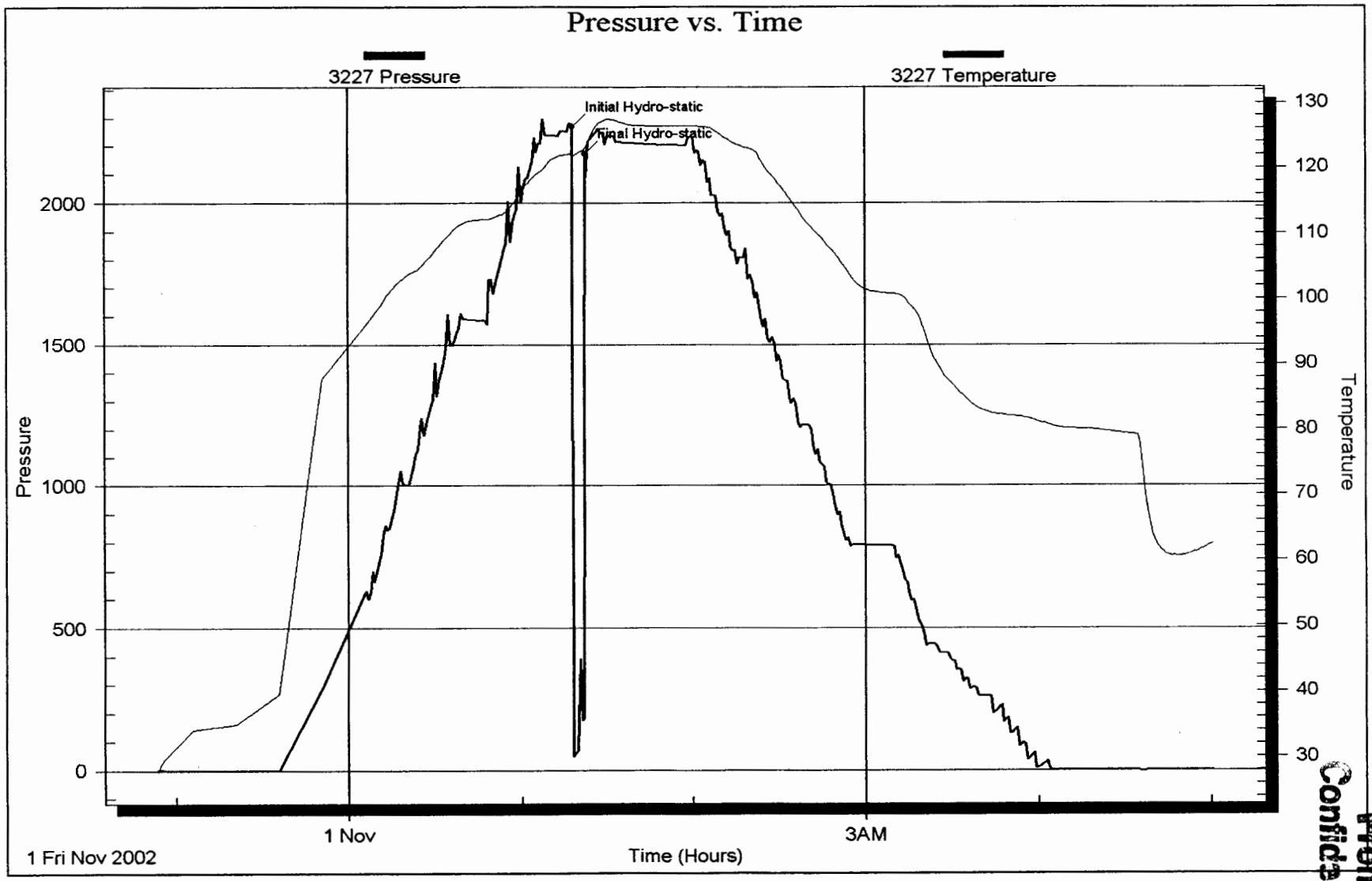
Length ft	Description	Volume bbl
880.00	mud 100%m	7.634

Total Length: 880.00 ft Total Volume: 7.634 bbl

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

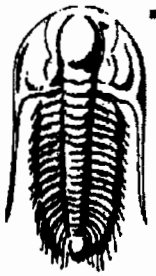
Laboratory Name: Laboratory Location:

Recovery Comments:



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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Comp**

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

33-2-41 Cheyenne,Ks

Ramona #3-33

Start Date: 2002.11.01 @ 05:10:39
End Date: 2002.11.01 @ 14:21:08
Job Ticket #: 15201 DST #: 3

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15201 **DST#: 3**

Test Start: 2002.11.01 @ 05:10:39

GENERAL INFORMATION:

Formation: D
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:57:08
Time Test Ended: 14:21:08

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

Interval: 4542.00 ft (KB) To 4616.00 ft (KB) (TVD)
Total Depth: 4616.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

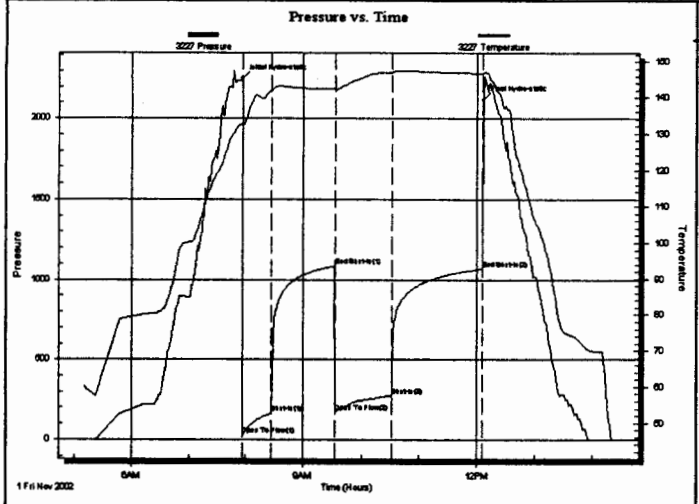
Reference Elevations: 3666.00 ft (KB)
3661.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3227 **Inside**

Press@RunDepth: 276.76 psig @ 4543.00 ft (KB)
Start Date: 2002.11.01 End Date: 2002.11.01
Start Time: 05:10:39 End Time: 14:21:08

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.11.01 @ 07:56:38
Time Off Btm: 2002.11.01 @ 12:06:23

TEST COMMENT: IF-1/2"in. @ open , built to 10"in.
ISI-No return
FF-Blow in 3 min , built to 7 1/2"in.
FSI-Return blow in 5 min. built to 1/2"in.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.57	132.67	Initial Hydro-static
1	27.40	132.59	Open To Flow (1)
31	166.89	142.07	Shut-In(1)
96	1084.68	142.37	End Shut-In(1)
97	174.56	142.26	Open To Flow (2)
155	276.76	147.00	Shut-In(2)
250	1069.42	146.68	End Shut-In(2)
250	2118.27	146.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	s o c w m 10%o 40%w 50%m	0.30
180.00	o&w c m 30%o 20%w 50%m	0.89
180.00	g o c m 10%g 50%o 40%m	0.89
170.00	g h o c m 10%g 70%o20%m	1.50

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 Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15201 **DST#: 3**

Test Start: 2002.11.01 @ 05:10:39

Tool Information

Drill Pipe:	Length:	4016.00 ft	Diameter:	3.80	inches	Volume:	56.33 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:	517.00 ft	Diameter:	2.25	inches	Volume:	2.54 bbl	Weight to Pull Loose:	78000.00 lb
						Total Volume:	58.87 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		13.00 ft						String Weight: Initial	61000.00 lb
Depth to Top Packer:		4542.00 ft						Final	64000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		74.00 ft							
Tool Length:		96.00 ft							
Number of Packers:		2	Diameter:	6.75	inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			4521.00		
S.I. Tool	5.00			4526.00		
HMV	5.00			4531.00		
Safety Joint	2.00			4533.00		
Packer	5.00			4538.00	22.00	Bottom Of Top Packer
Packer	4.00			4542.00		
Stubb	1.00			4543.00		
Recorder	0.00	3227	Inside	4543.00		
Perforations	34.00			4577.00		
C.O. Sub	1.00			4578.00		
drillpipe	32.00			4610.00		
C.O. Sub	1.00			4611.00		
Recorder	0.00	11057	Outside	4611.00		
Bullnose	5.00			4616.00	74.00	Bottom Packers & Anchor
Total Tool Length:	**96.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15201 **DST#: 3**

Test Start: 2002.11.01 @ 05:10:39

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	s o c w m 10%o 40%w 50%m	0.295
180.00	o&w c m 30%o 20%w 50%m	0.885
180.00	g o c m 10%g 50%o 40%m	0.885
170.00	g h o c m 10%g 70%o20%m	1.501

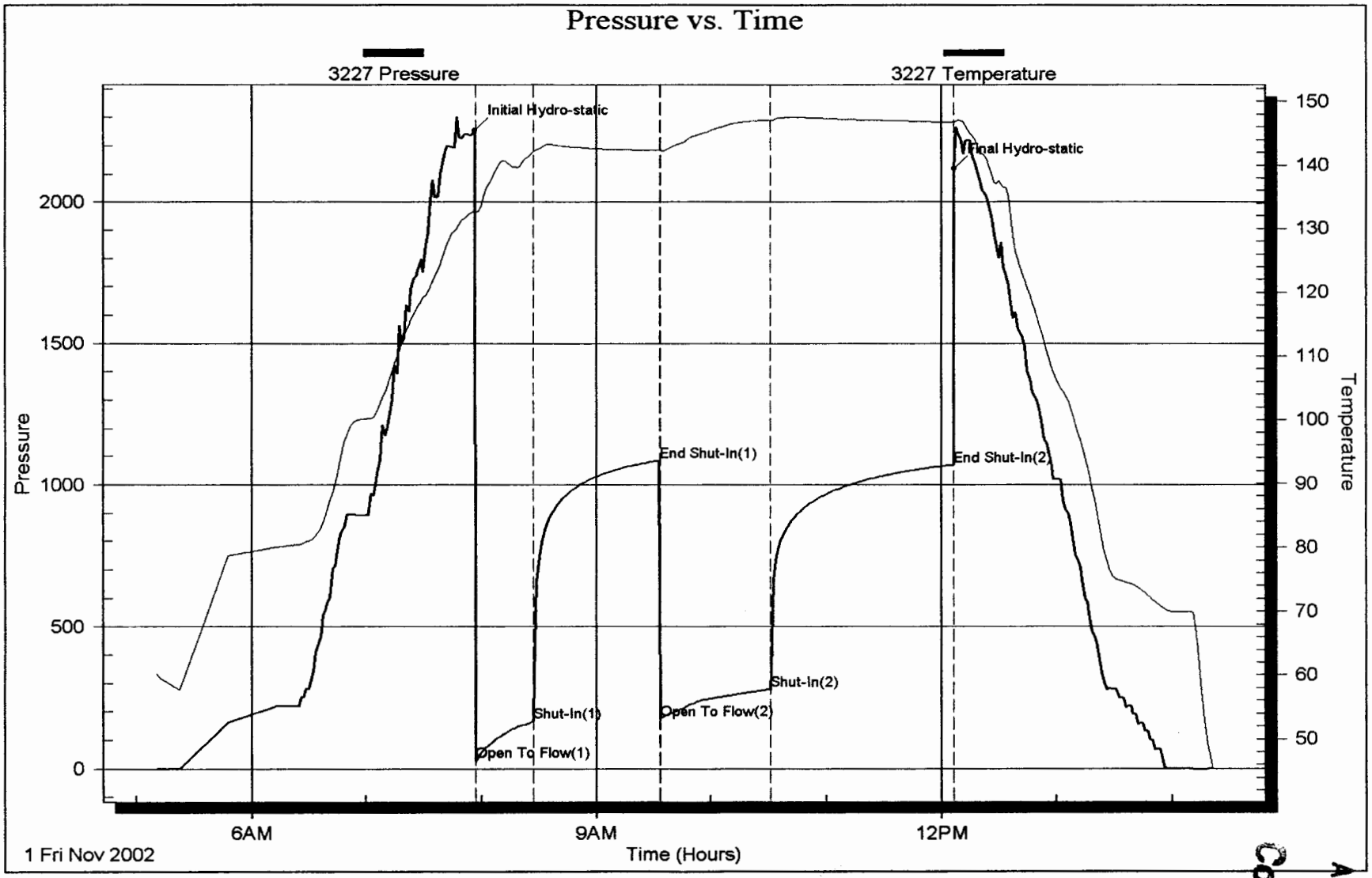
Total Length: 590.00 ft Total Volume: 3.566 bbl

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

Laboratory Name: Laboratory Location:

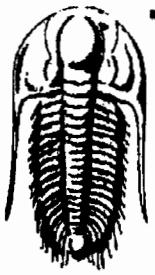
Recovery Comments: 435' gas in pipe

Serial #: 3227 **Inside** Murfin Drilling Comp 33-2-41 Cheyenne,Ks DST Test Number: 3



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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Comp**

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

33-2-41 Cheyenne,Ks

Ramona #3-33

Start Date: 2002.11.02 @ 01:52:41
End Date: 2002.11.02 @ 09:14:10
Job Ticket #: 15202 DST #: 4

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

DRILL STEM TEST REPORT

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15202 **DST#: 4**

Test Start: 2002.11.02 @ 01:52:41

GENERAL INFORMATION:

Formation: **G-H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:15:25
Time Test Ended: 09:14:10

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

Interval: 4608.00 ft (KB) To 4710.00 ft (KB) (TVD)
Total Depth: 4710.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

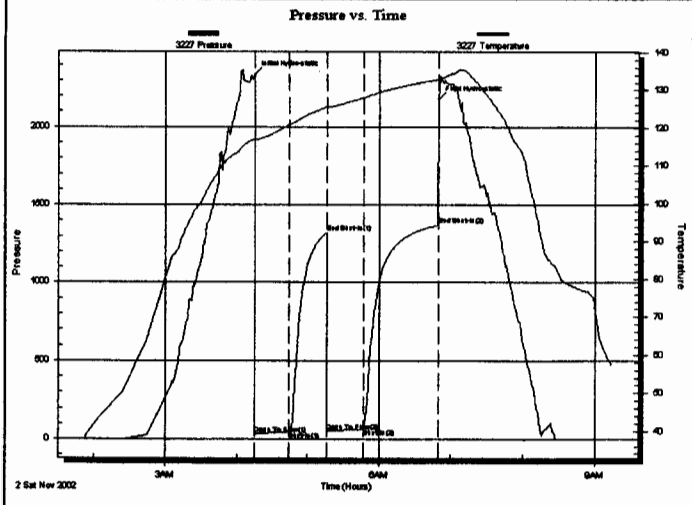
Reference Elevations: 3666.00 ft (KB)
3661.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3227 **Inside**

Press@RunDepth: 65.73 psig @ 4609.00 ft (KB)
Start Date: 2002.11.02 End Date: 2002.11.02
Start Time: 01:52:41 End Time: 09:14:10

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.11.02 @ 04:15:10
Time Off Btm: 2002.11.02 @ 06:49:40

TEST COMMENT: IF-3/4"in blow @ open , died in 28 min.
ISI-No return
FF-No Blow
FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2334.64	117.05	Initial Hydro-static
1	32.33	116.89	Open To Flow (1)
30	47.89	120.84	Shut-In(1)
61	1322.40	125.53	End Shut-In(1)
61	52.16	125.48	Open To Flow (2)
92	65.73	127.98	Shut-In(2)
154	1370.27	132.88	End Shut-In(2)
155	2179.39	132.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud 100%m	0.30

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 Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15202 **DST#: 4**

Test Start: 2002.11.02 @ 01:52:41

Tool Information

Drill Pipe:	Length:	4079.00 ft	Diameter:	3.80 inches	Volume:	57.22 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:	517.00 ft	Diameter:	2.25 inches	Volume:	2.54 bbl	Weight to Pull Loose:		75000.00 lb
					Total Volume:	59.76 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight:	Initial	61000.00 lb
Depth to Top Packer:		4608.00 ft						Final	61000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		102.00 ft							
Tool Length:		124.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			4587.00		
S.I. Tool	5.00			4592.00		
HMV	5.00			4597.00		
Safety Joint	2.00			4599.00		
Packer	5.00			4604.00	22.00	Bottom Of Top Packer
Packer	4.00			4608.00		
Stubb	1.00			4609.00		
Recorder	0.00	3227	Inside	4609.00		
Perforations	31.00			4640.00		
C.O. Sub	1.00			4641.00		
drillpipe	63.00			4704.00		
C.O. Sub	1.00			4705.00		
Recorder	0.00	11057	Outside	4705.00		
Bullnose	5.00			4710.00	102.00	Bottom Packers & Anchor
Total Tool Length:	**124.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15202 **DST#: 4**

Test Start: 2002.11.02 @ 01:52:41

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:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.98 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

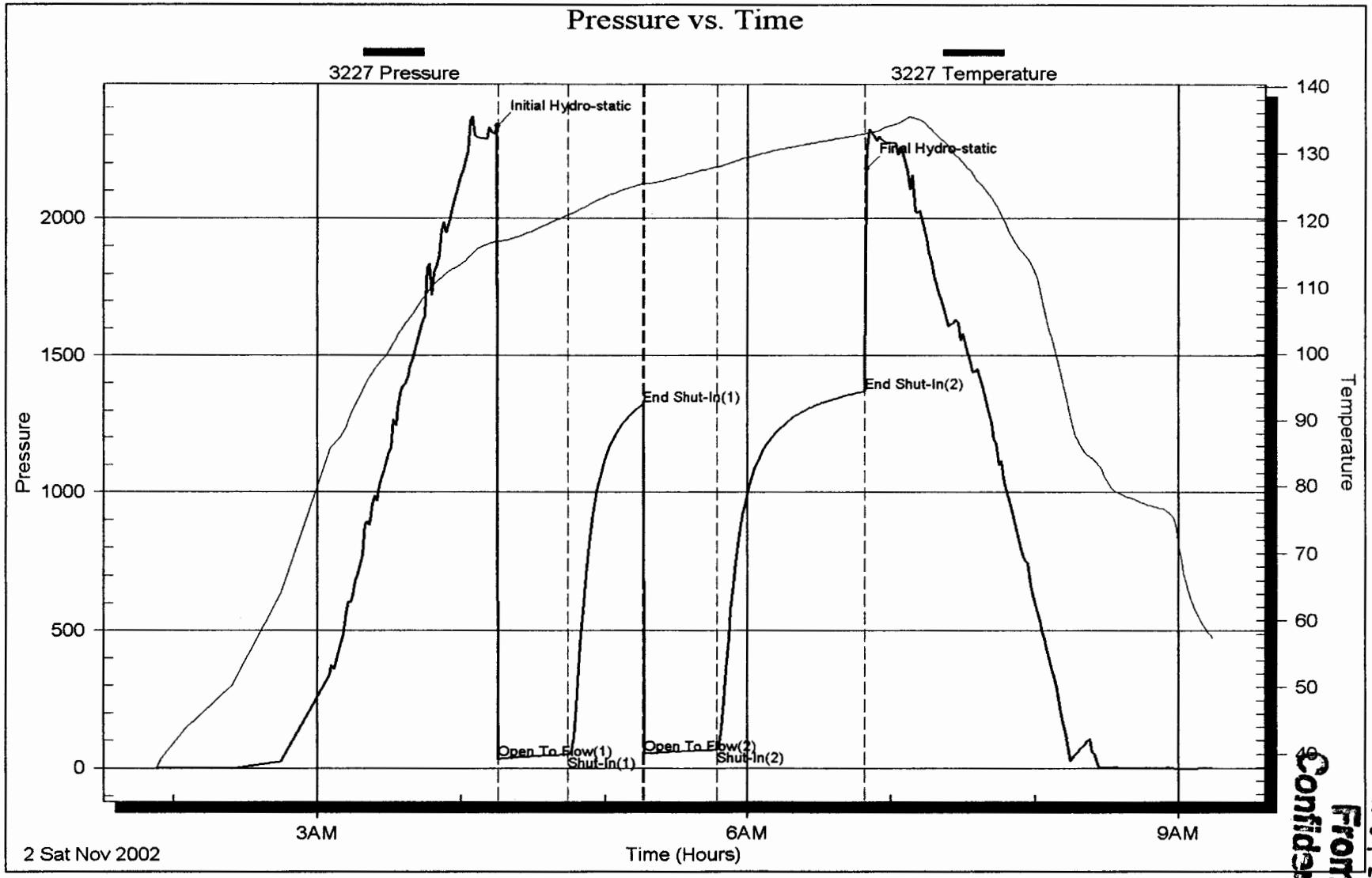
Length ft	Description	Volume bbl
60.00	mud 100%m	0.295

Total Length: 60.00 ft Total Volume: 0.295 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 Comp**

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

33-2-41 Cheyenne,Ks

Ramona #3-33

Start Date: 2002.11.02 @ 19:01:09
End Date: 2002.11.03 @ 01:34:53
Job Ticket #: 15203 DST #: 5

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15203 **DST#: 5**

Test Start: 2002.11.02 @ 19:01:09

GENERAL INFORMATION:

Formation: "J"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:04:23
Time Test Ended: 01:34:53

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

Interval: 4698.00 ft (KB) To 4752.00 ft (KB) (TVD)
Total Depth: 4752.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

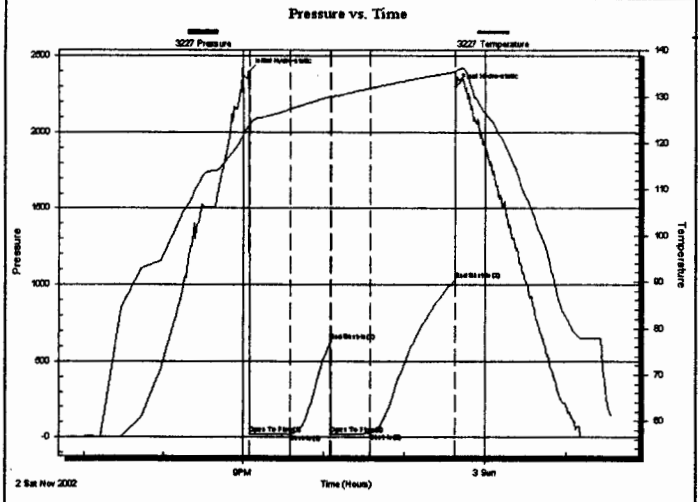
Reference Elevations: 3666.00 ft (KB)
3661.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3227 **Inside**

Press@RunDepth: 23.90 psig @ 4699.00 ft (KB)
Start Date: 2002.11.02 End Date: 2002.11.03
Start Time: 19:01:09 End Time: 01:34:53

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.11.02 @ 21:04:08
Time Off Btm: 2002.11.02 @ 23:37:38

TEST COMMENT: IF-Weak blow died in 10 min.
ISI-No return
FF-No blow
FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2392.08	123.69	Initial Hydro-static
1	17.69	123.69	Open To Flow (1)
31	20.79	127.27	Shut-In(1)
61	630.18	129.97	End Shut-In(1)
62	21.59	129.95	Open To Flow (2)
91	23.90	131.78	Shut-In(2)
154	1030.81	135.29	End Shut-In(2)
154	2297.55	135.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100%m	0.01

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 Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15203 **DST#: 5**

Test Start: 2002.11.02 @ 19:01:09

Tool Information

Drill Pipe:	Length:	4170.00 ft	Diameter:	3.80 inches	Volume:	58.49 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:	517.00 ft	Diameter:	2.25 inches	Volume:	2.54 bbl	Weight to Pull Loose:		78000.00 lb
					Total Volume:	61.03 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		11.00 ft					String Weight:	Initial	62000.00 lb
Depth to Top Packer:		4698.00 ft						Final	62000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		54.00 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	
C.O. Sub	1.00			4677.00		
S.I. Tool	5.00			4682.00		
HMV	5.00			4687.00		
Safety Joint	2.00			4689.00		
Packer	5.00			4694.00	22.00	Bottom Of Top Packer
Packer	4.00			4698.00		
Stubb	1.00			4699.00		
Recorder	0.00	3227	Inside	4699.00		
Perforations	15.00			4714.00		
C.O. Sub	1.00			4715.00		
drillpipe	31.00			4746.00		
C.O. Sub	1.00			4747.00		
Recorder	0.00	11057	Outside	4747.00		
Bullnose	5.00			4752.00	54.00	Bottom Packers & Anchor
Total Tool Length:	**76.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp

Ramona #3-33

33-2-41 Cheyenne,Ks

Job Ticket: 15203 **DST#: 5**

Test Start: 2002.11.02 @ 19:01:09

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.98 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

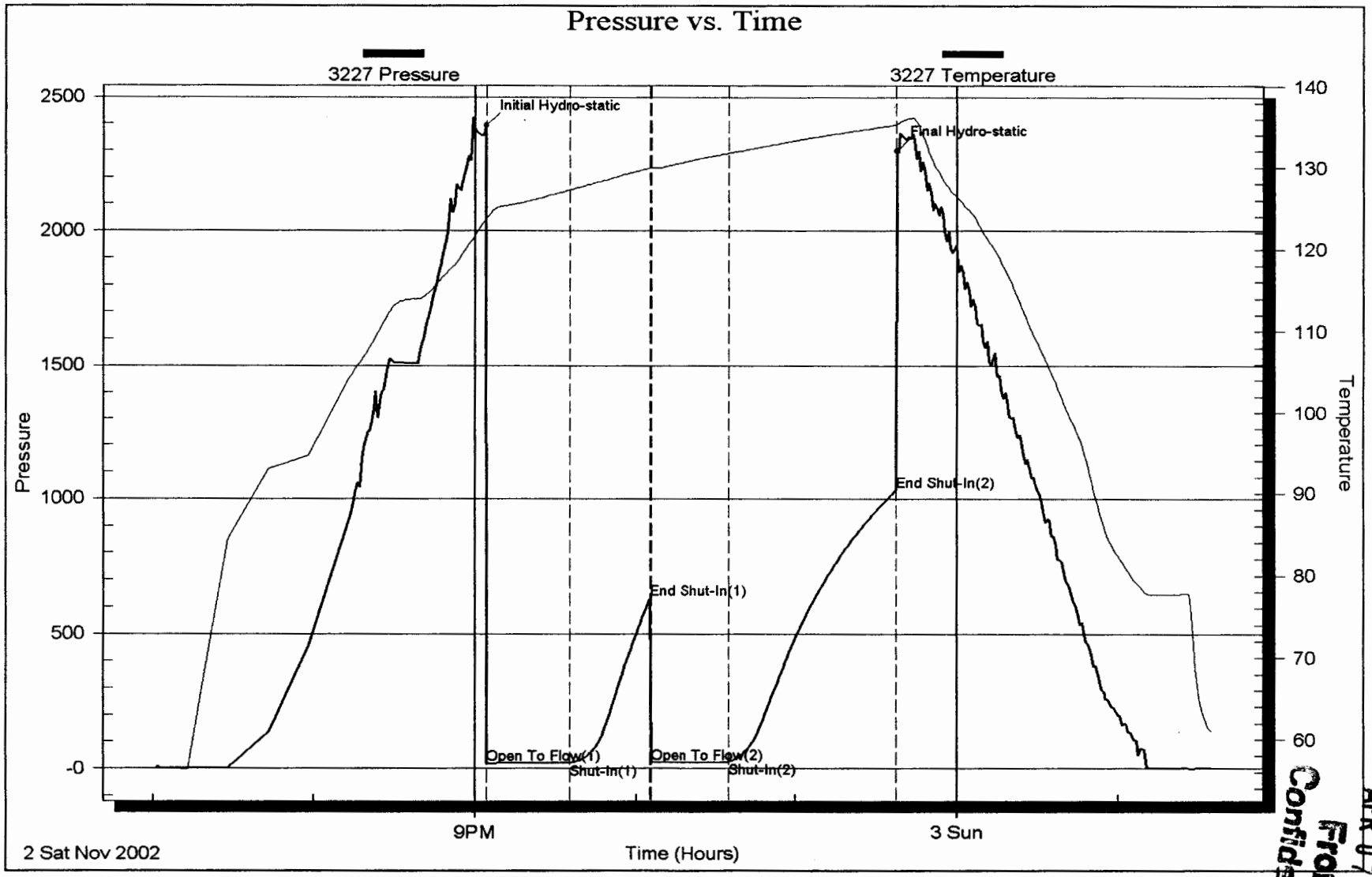
Length ft	Description	Volume bbl
2.00	mud 100%m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



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