32-R-4W

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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

15-023-20441

ATTN: Murfin Drilling Comp.

32-2-41 Cheyenne,Ks

James #6-32

Start Date: 2002.10.20 @ 17:20:26
End Date: 2002.10.20 @ 23:34:55
Job Ticket #: 15195 DST #: 1

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

Murfin Drilling Comp
James #6-32
32-2-41 Cheyenne,Ks
DST # 1
Lans "A"
2002.10.20

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DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water

Wichita, KS 67202

ATTN: Murfin Drilling Comp.00

James #6-32

32-2-41 Cheyenne,Ks

Job Ticket: 15195 **DST#: 1**

Test Start: 2002.10.20 @ 17:20:26

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GENERAL INFORMATION:

Formation: **Lans "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:08:55
Time Test Ended: 23:34:55

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

Interval: 4466.00 ft (KB) To 4534.00 ft (KB) (TVD)
Total Depth: 4534.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

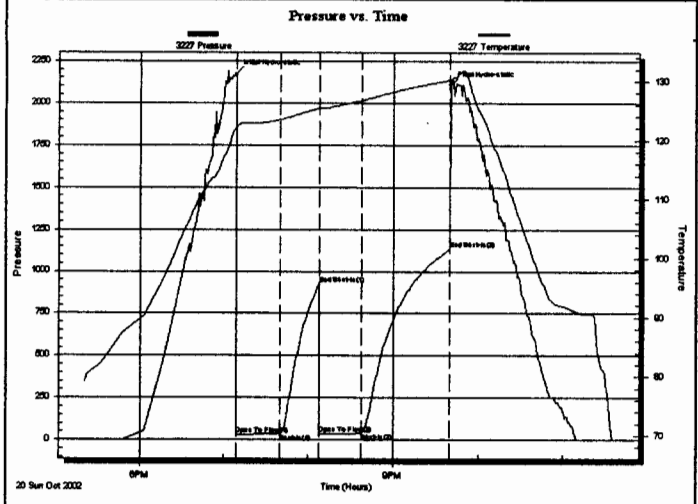
Reference Elevations: 3664.00 ft (KB)
3659.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3227 **Inside**

Press@RunDepth: 38.32 psig @ 4467.00 ft (KB)
Start Date: 2002.10.20 End Date: 2002.10.20
Start Time: 17:20:26 End Time: 23:34:55

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.10.20 @ 19:08:40
Time Off Btm: 2002.10.20 @ 21:40:10

TEST COMMENT: Weak blow died in 10 min.
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.00	122.28	Initial Hydro-static
1	30.33	122.21	Open To Flow (1)
32	34.49	123.47	Shut-In(1)
59	921.76	125.41	End Shut-In(1)
60	35.55	125.37	Open To Flow (2)
89	38.32	126.72	Shut-In(2)
151	1130.78	130.18	End Shut-In(2)
152	2108.75	130.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m w/oil spots on top	0.02

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.00

James #6-32

32-2-41 Cheyenne,Ks

Job Ticket: 15195 **DST#: 1**

Test Start: 2002.10.20 @ 17:20:26

Tool Information

Drill Pipe:	Length:	3926.00 ft	Diameter:	3.80 inches	Volume:	55.07 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:	538.00 ft	Diameter:	2.25 inches	Volume:	2.65 bbl	Weight to Pull Loose:	76000.00 lb
					Total Volume:	57.72 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:		4466.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		68.00 ft						
Tool Length:		90.00 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			4445.00		
S.I. Tool	5.00			4450.00		
HMV	5.00			4455.00		
Safety Joint	2.00			4457.00		
Packer	5.00			4462.00	22.00	Bottom Of Top Packer
Packer	4.00			4466.00		
Stubb	1.00			4467.00		
Recorder	0.00	3227	Inside	4467.00		
Perforations	28.00			4495.00		
C.O. Sub	1.00			4496.00		
drillpipe	32.00			4528.00		
C.O. Sub	1.00			4529.00		
Recorder	0.00	11057	Outside	4529.00		
Bullnose	5.00			4534.00	68.00	Bottom Packers & Anchor
Total Tool Length:	**90.00**					

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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.00

James #6-32

32-2-41 Cheyenne,Ks

Job Ticket: 15195 **DST#: 1**

Test Start: 2002.10.20 @ 17:20:26

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.93 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

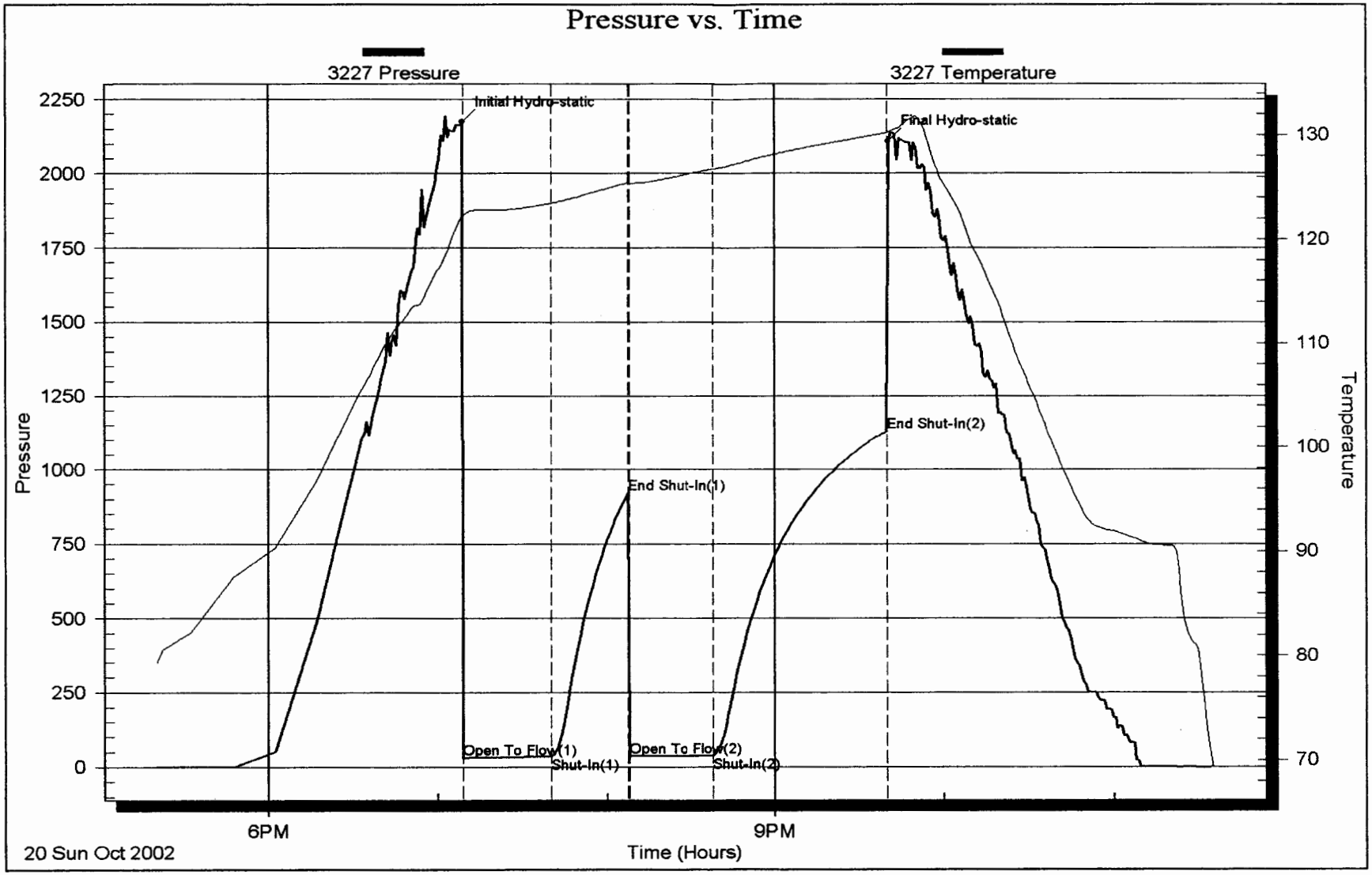
Length ft	Description	Volume bbl
5.00	mud 100%m w/oil spots on top	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
3227 Pressure
3227 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(2)
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2250
2000
1750
1500
1250
1000
750
500
250
0
130
120
110
100
90
80
70
6PM
9PM
20 Sun Oct 2002
Time (Hours)

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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Comp**

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp.

32-2-41 Cheyenne,Ks

James #6-32

Start Date: 2002.10.21 @ 09:23:04
End Date: 2002.10.21 @ 15:46:33
Job Ticket #: 15196 DST #: 2

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

Murfin Drilling Comp
James #6-32
32-2-41 Cheyenne,Ks
DST # 2
Lans
2002.10.21

DRILL STEM TEST REPORT

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp.00

James #6-32

32-2-41 Cheyenne,Ks

Job Ticket: 15196 **DST#: 2**

Test Start: 2002.10.21 @ 09:23:04

GENERAL INFORMATION:

Formation: **Lans**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:26:03
Time Test Ended: 15:46:33

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

Interval: 4535.00 ft (KB) To 4597.00 ft (KB) (TVD)
Total Depth: 4597.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

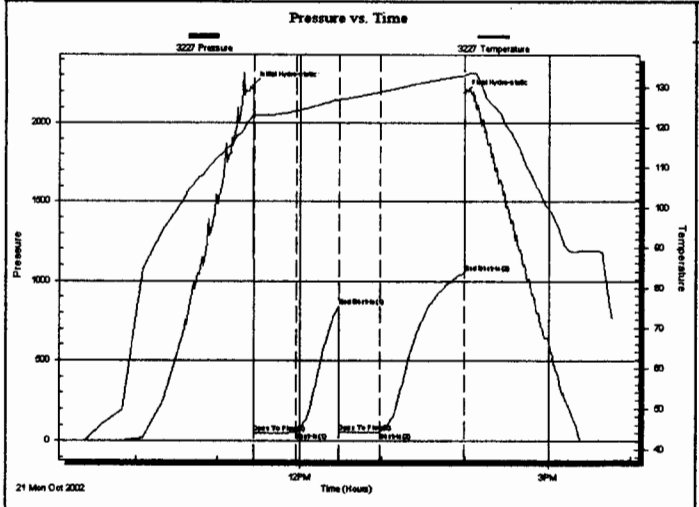
Reference Elevations: 3664.00 ft (KB)
3659.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3227 **Inside**

Press@RunDepth: 55.62 psig @ 4536.00 ft (KB)
Start Date: 2002.10.21 End Date: 2002.10.21
Start Time: 09:23:04 End Time: 15:46:33

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.10.21 @ 11:25:48
Time Off Btm: 2002.10.21 @ 13:59:33

TEST COMMENT: Tool slide 2' to bottom 1 1/2"in @ open died in 25 min.
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.38	123.12	Initial Hydro-static
1	49.79	122.99	Open To Flow (1)
32	52.96	124.29	Shut-In(1)
63	841.43	127.10	End Shut-In(1)
63	54.42	127.11	Open To Flow (2)
93	55.62	128.95	Shut-In(2)
154	1053.08	133.06	End Shut-In(2)
154	2189.56	133.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	free oil 100%o	0.00
59.00	s o c m 5%0 95%m	0.29

Gas Rates

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

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.00

James #6-32

32-2-41 Cheyenne,Ks

Job Ticket: 15196 **DST#: 2**

Test Start: 2002.10.21 @ 09:23:04

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:	538.00 ft	Diameter:	2.25 inches	Volume:	2.65 bbl	Weight to Pull Loose:	78000.00 lb
					Total Volume:	58.55 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:		4535.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		62.00 ft						
Tool Length:		84.00 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			4514.00		
S.I. Tool	5.00			4519.00		
HMV	5.00			4524.00		
Safety Joint	2.00			4526.00		
Packer	5.00			4531.00	22.00	Bottom Of Top Packer
Packer	4.00			4535.00		
Stubb	1.00			4536.00		
Recorder	0.00	3227	Inside	4536.00		
Perforations	23.00			4559.00		
C.O. Sub	1.00			4560.00		
drillpipe	31.00			4591.00		
C.O. Sub	1.00			4592.00		
Recorder	0.00	11057	Outside	4592.00		
Bullnose	5.00			4597.00	62.00	Bottom Packers & Anchor
Total Tool Length:	**84.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp.00

James #6-32

32-2-41 Cheyenne,Ks

Job Ticket: 15196 **DST#: 2**

Test Start: 2002.10.21 @ 09:23:04

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 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

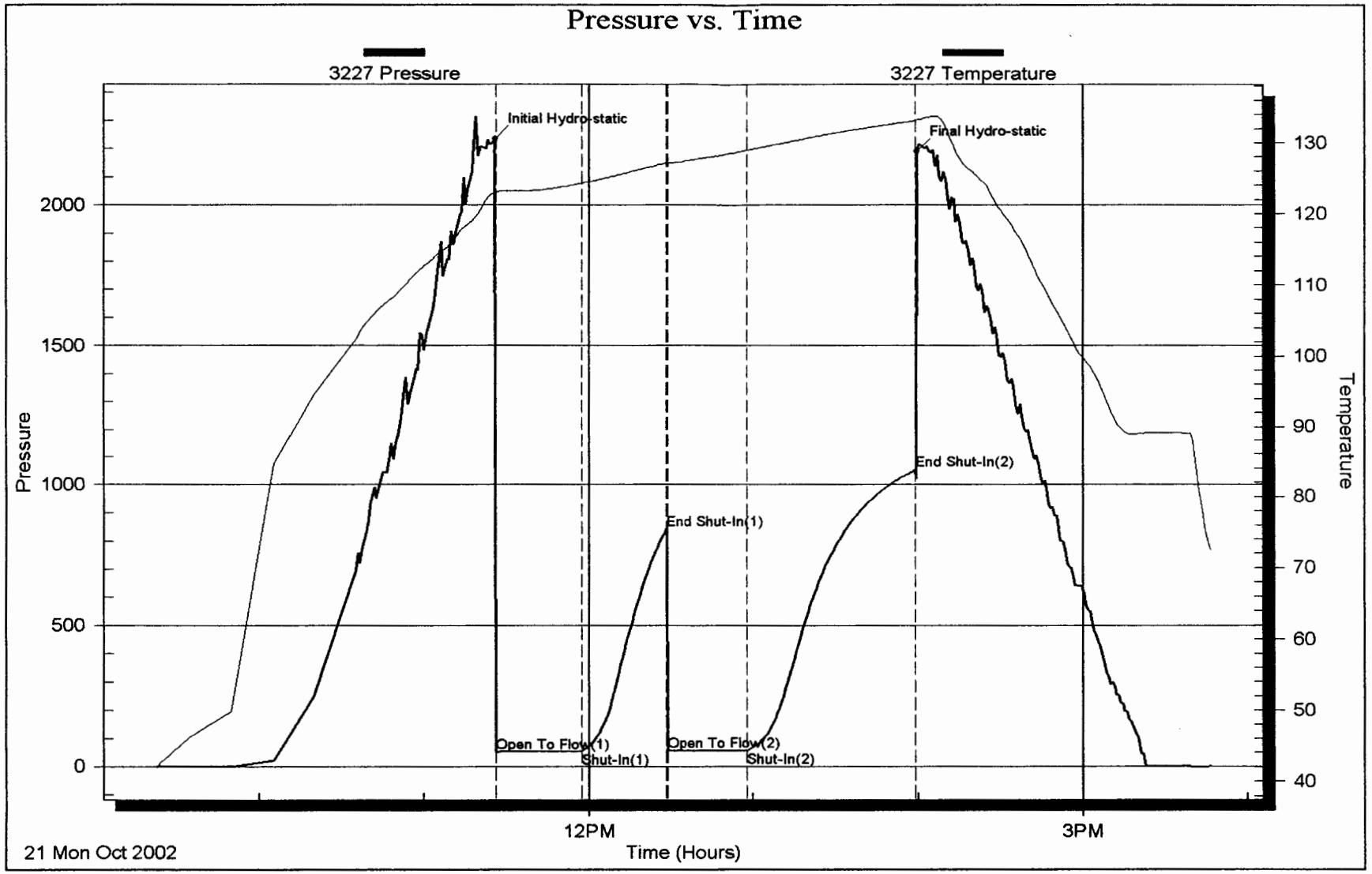
Length ft	Description	Volume bbl
1.00	free oil 100%o	0.005
59.00	s o c m 5%0 95%m	0.290

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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DRILL STEM TEST REPORT

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Prepared For: **Murfin Drilling Comp**

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp.

32-2-41 Cheyenne,Ks

James #6-32

Start Date: 2002.10.22 @ 06:56:49
End Date: 2002.10.22 @ 15:00:33
Job Ticket #: 15197 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 Comp

250 N Water St, Ste 300
Wichita, KS 67202

ATTN: Murfin Drilling Comp.00

James #6-32

32-2-41 Cheyenne,Ks

Job Ticket: 15197 **DST#: 3**

Test Start: 2002.10.22 @ 06:56:49

GENERAL INFORMATION:

Formation: **Lans "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:56:48
Time Test Ended: 15:00:33

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

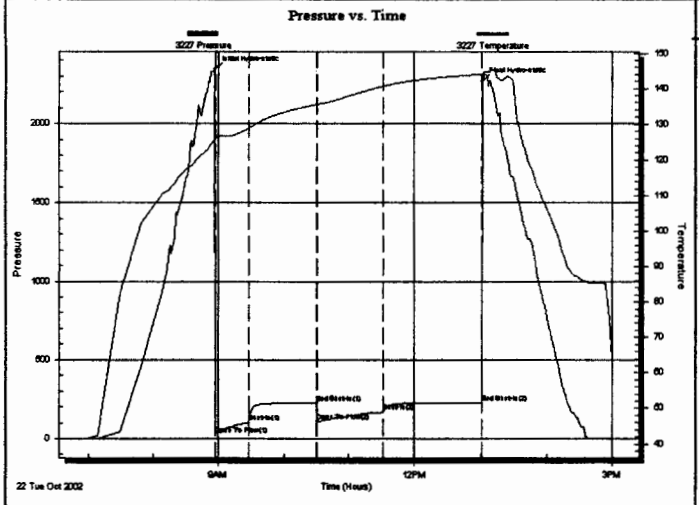
Interval: 4682.00 ft (KB) To 4732.00 ft (KB) (TVD)
Total Depth: 4732.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3664.00 ft (KB)
3659.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3227 **Inside**
Press@RunDepth: 167.89 psig @ 4683.00 ft (KB)
Start Date: 2002.10.22 End Date: 2002.10.22
Start Time: 06:56:49 End Time: 15:00:33

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.10.22 @ 08:56:33
Time Off Btm: 2002.10.22 @ 13:01:48

TEST COMMENT: 1/4"in @ open , built to 7"in.
No return
Weak blow in 10 min. built to 1"in.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.69	125.89	Initial Hydro-static
1	23.52	125.84	Open To Flow (1)
32	101.52	128.90	Shut-In(1)
94	226.23	135.55	End Shut-In(1)
94	108.27	135.56	Open To Flow (2)
155	167.89	140.66	Shut-In(2)
245	227.03	144.04	End Shut-In(2)
246	2266.85	144.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	s g o 15%g 85%o	0.07
75.00	s g h o c m 15%g 70%o 15%m	0.37
248.00	s g & o c m 20%o 15%g 65%m	1.22

Gas Rates

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

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.00

James #6-32

32-2-41 Cheyenne,Ks

Job Ticket: 15197 **DST#: 3**

Test Start: 2002.10.22 @ 06:56:49

Tool Information

Drill Pipe:	Length:	4137.00 ft	Diameter:	3.80 inches	Volume:	58.03 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:	538.00 ft	Diameter:	2.25 inches	Volume:	2.65 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	60.68 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		15.00 ft					String Weight: Initial	65000.00 lb
Depth to Top Packer:		4682.00 ft					Final	66000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		50.00 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	
C.O. Sub	1.00			4661.00		
S.I. Tool	5.00			4666.00		
HMV	5.00			4671.00		
Safety Joint	2.00			4673.00		
Packer	5.00			4678.00	22.00	Bottom Of Top Packer
Packer	4.00			4682.00		
Stubb	1.00			4683.00		
Recorder	0.00	3227	Inside	4683.00		
Perforations	11.00			4694.00		
C.O. Sub	1.00			4695.00		
drillpipe	31.00			4726.00		
C.O. Sub	1.00			4727.00		
Recorder	0.00	11057	Outside	4727.00		
Bullnose	5.00			4732.00	50.00	Bottom Packers & Anchor
Total Tool Length:	**72.00**					

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.00

James #6-32

32-2-41 Cheyenne,Ks

Job Ticket: 15197 **DST#: 3**

Test Start: 2002.10.22 @ 06:56:49

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.79 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

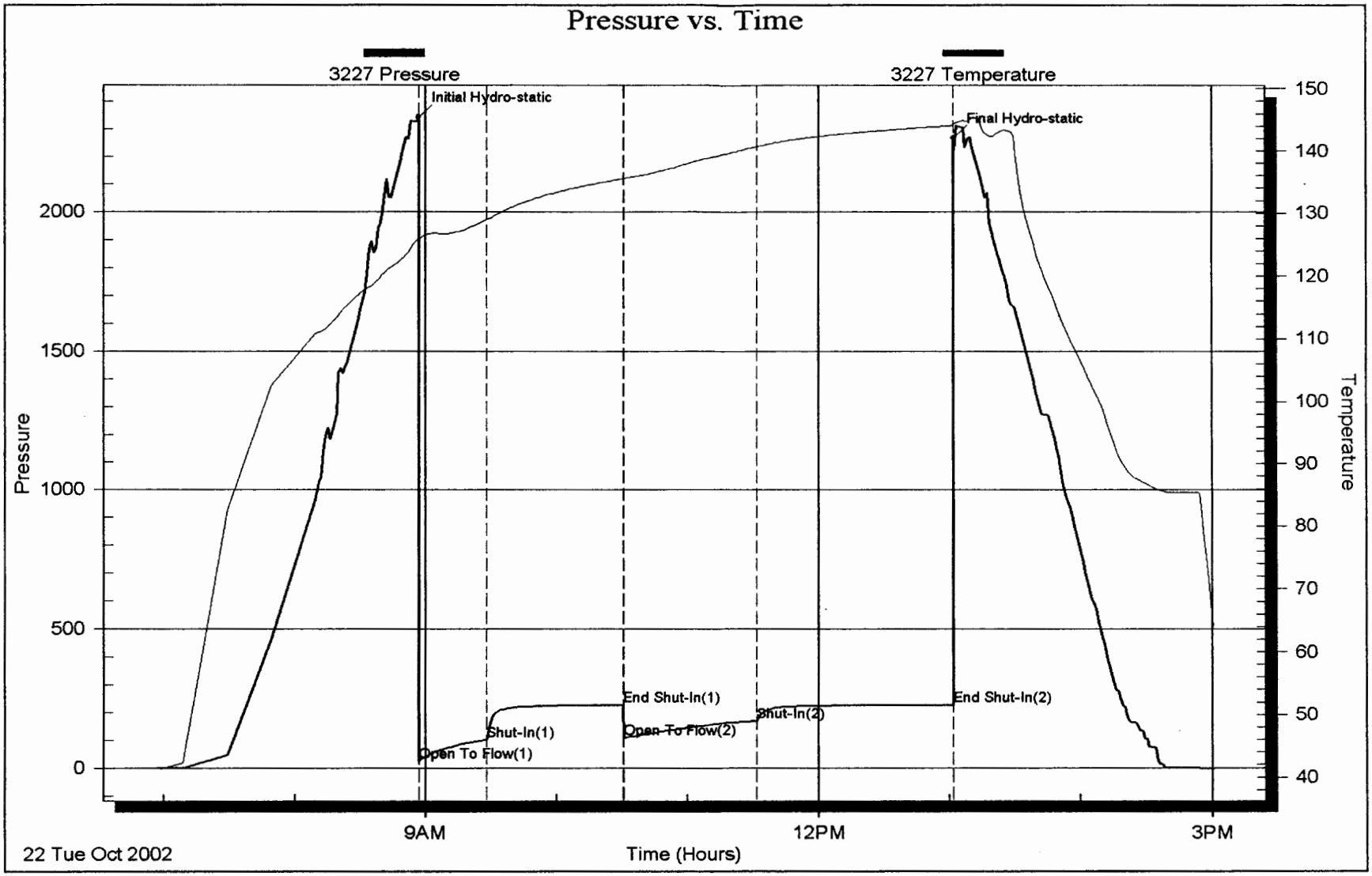
Length ft	Description	Volume bbl
15.00	s g o 15%g 85%o	0.074
75.00	s g h o c m 15%g 70%o 15%m	0.369
248.00	s g & o c m 20%o 15%g 65%m	1.220

Total Length: 338.00 ft Total Volume: 1.663 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 210' of gas in pipe


Pressure vs. Time
3227 Pressure
3227 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
2000
1500
1000
500
0
150
140
130
120
110
100
90
80
70
60
50
40
9AM
12PM
3PM
22 Tue Oct 2002
Time (Hours)

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