

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd ST N # 700 Wichita KS 67278

ATTN: Adam

Eaton Trust #1

24-13s-32w Logan

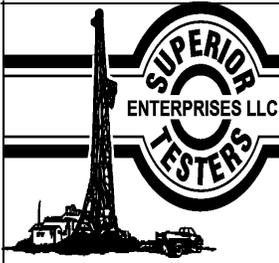
Start Date: 2011.12.29 @ 23:45:00

End Date: 2011.12.30 @ 06:14:00

Job Ticket #: 18667 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.12.30 @ 06:40:06



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18667 **DST#: 1**
 Test Start: 2011.12.29 @ 23:45:00

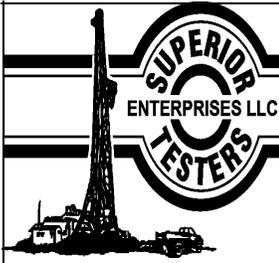
Tool Information

Drill Pipe:	Length: 3381.00 ft	Diameter: 3.80 inches	Volume: 47.43 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 50.23 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3968.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	57.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3945.00	
Hydraulic Tool	5.00			3950.00	
Jars	6.00			3956.00	
Safety Joint	2.00			3958.00	
Packer	5.00			3963.00	28.00 Bottom Of Top Packer
Packer	5.00			3968.00	
Anchor	0.00			3968.00	
Change Over Sub	0.75			3968.75	
Drill Pipe	31.50		Outside	4000.25	
Change Over Sub	0.75		Outside	4001.00	
Anchor	19.00			4020.00	
Recorder	1.00	8419	Inside	4021.00	
Recorder	1.00	8524	Outside	4022.00	
Bullnose	3.00			4025.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18667 **DST#: 1**
 Test Start: 2011.12.29 @ 23:45:00

Mud and Cushion Information

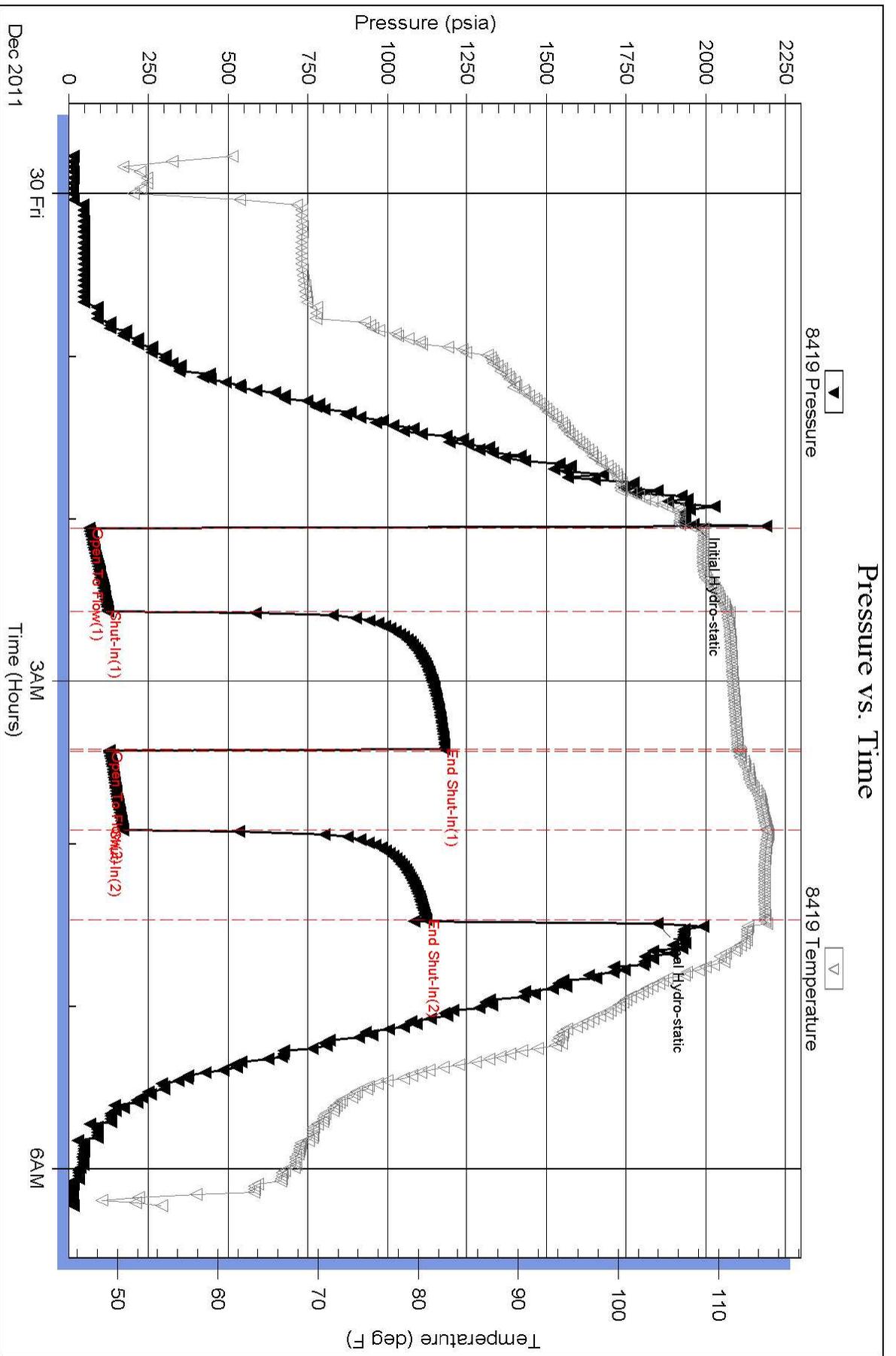
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

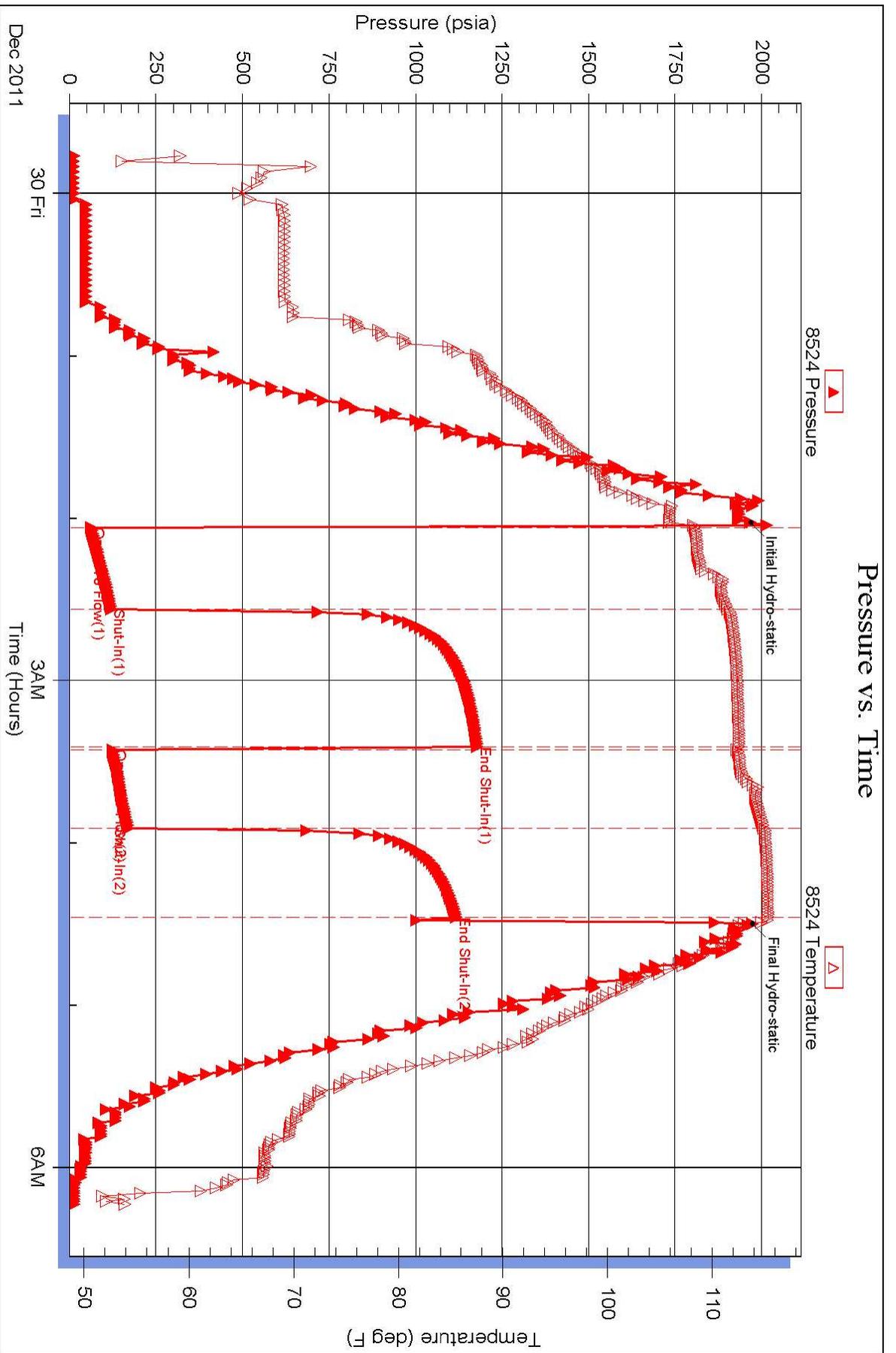
Recovery Information

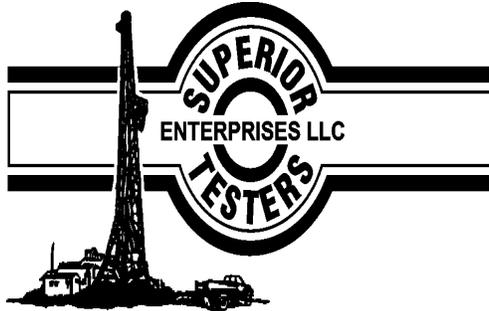
Recovery Table

Length ft	Description	Volume bbl
230.00	Muddy w ater 50%mud 50%w ater	1.131
0.00	Chlorides 30,000	0.000
0.00	Resistivity .3 @ 65 degrees	0.000

Total Length: 230.00 ft Total Volume: 1.131 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd ST N # 700 Wichita KS 67278

ATTN: Adam

Eaton Trust #1

24-13s-32w Logan

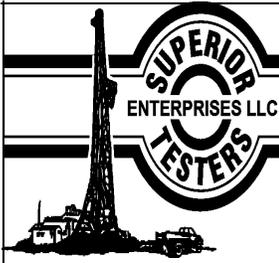
Start Date: 2011.12.30 @ 13:25:00

End Date: 2011.12.30 @ 20:11:00

Job Ticket #: 18668 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.12.30 @ 20:25:02



DRILL STEM TEST REPORT

TOOL DIAGRAM

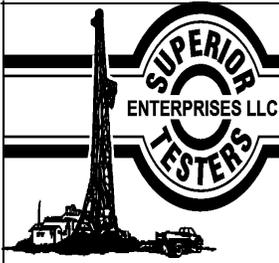
Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18668 **DST#: 2**
 Test Start: 2011.12.30 @ 13:25:00

Tool Information

Drill Pipe:	Length: 3450.00 ft	Diameter: 3.80 inches	Volume: 48.39 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 51.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4026.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	38.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4009.00	
Hydraulic Tool	5.00			4014.00	
Safety Joint	2.00			4016.00	
Packer	5.00			4021.00	22.00 Bottom Of Top Packer
Packer	5.00			4026.00	
Anchor	11.00			4037.00	
Recorder	1.00	8419	Inside	4038.00	
Recorder	1.00	8524	Outside	4039.00	
Bullnose	3.00			4042.00	16.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18668 **DST#: 2**
 Test Start: 2011.12.30 @ 13:25:00

Mud and Cushion Information

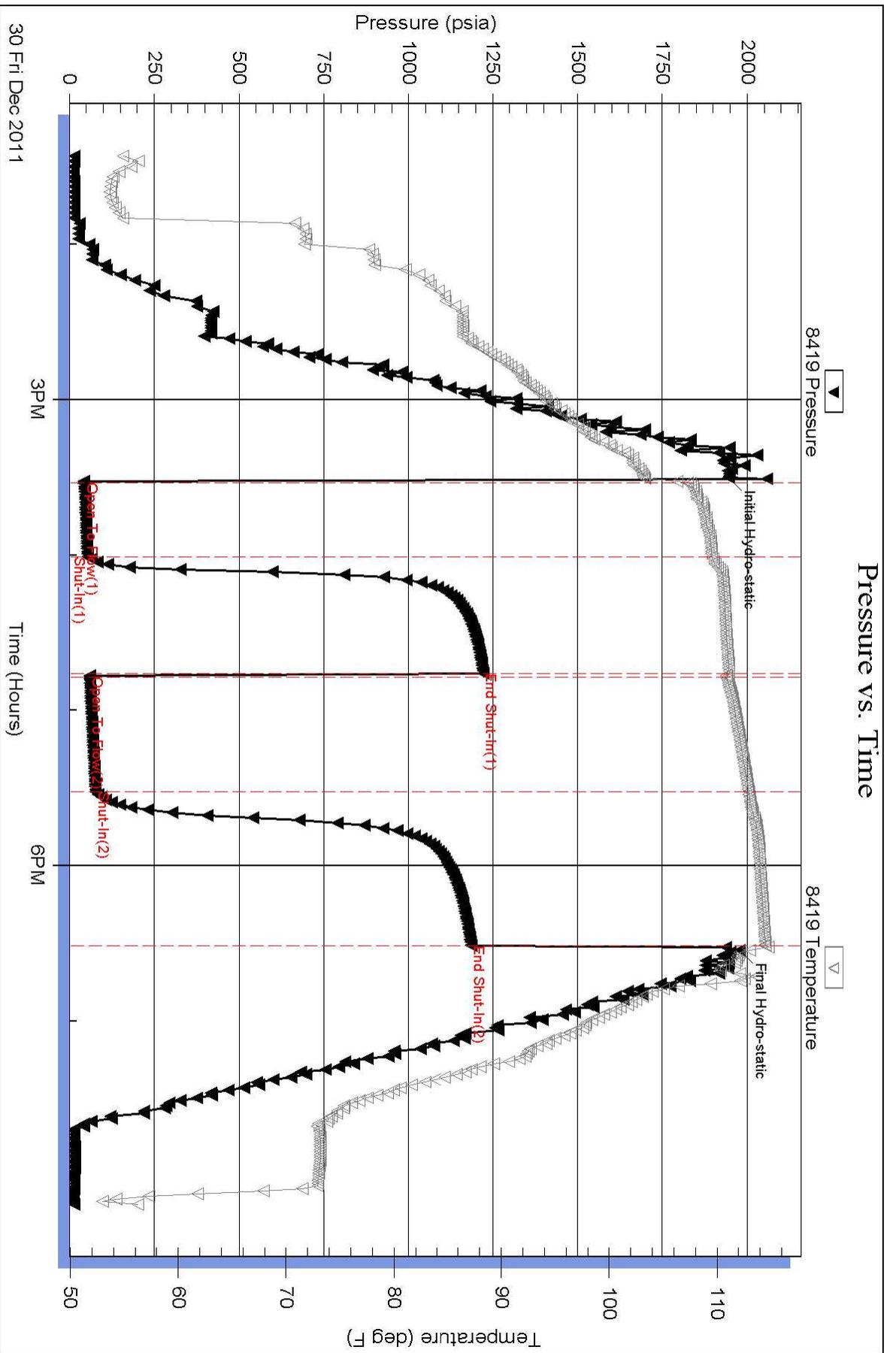
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2300.00 ppm			
Filter Cake: 1.00 inches			

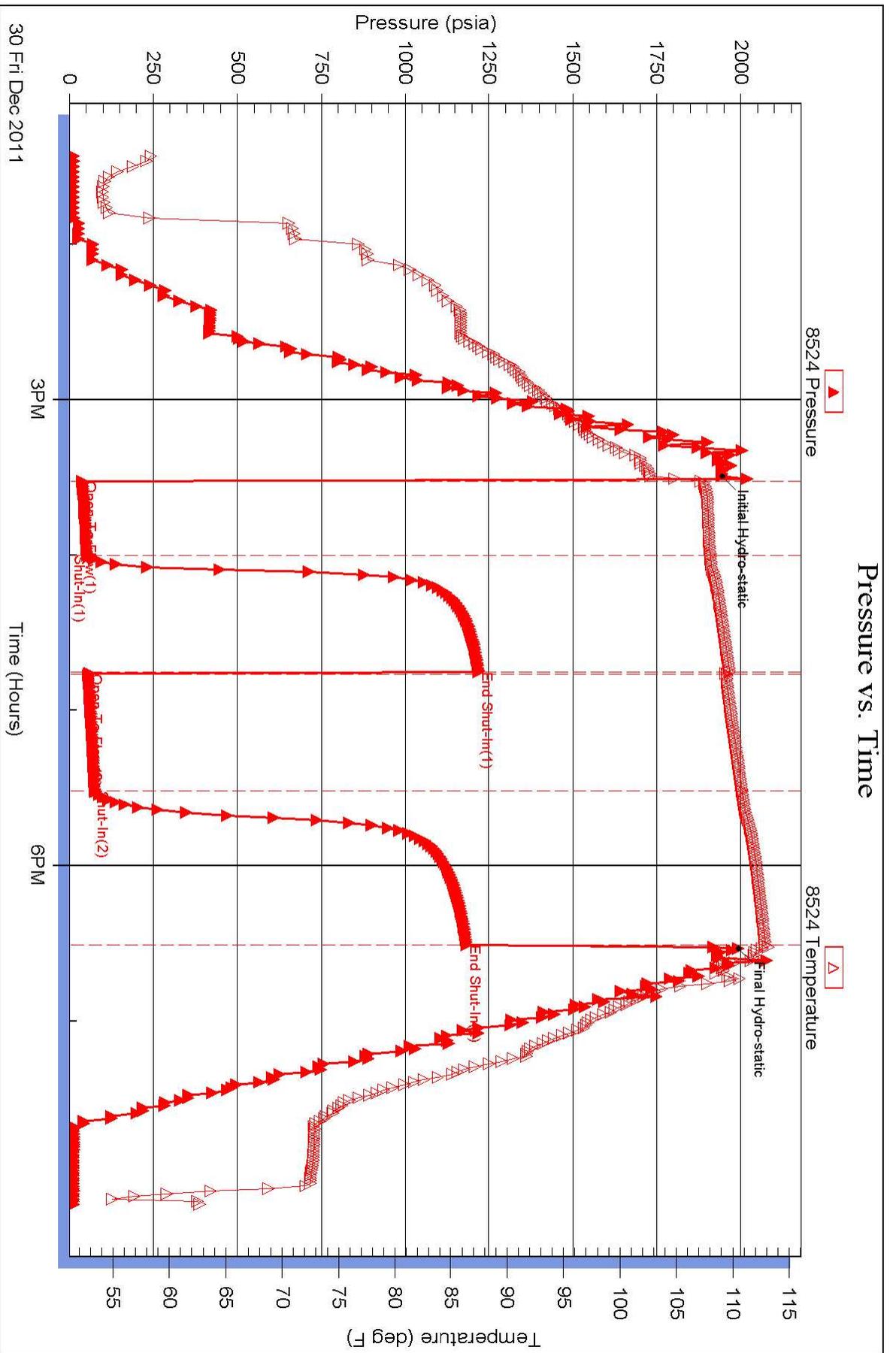
Recovery Information

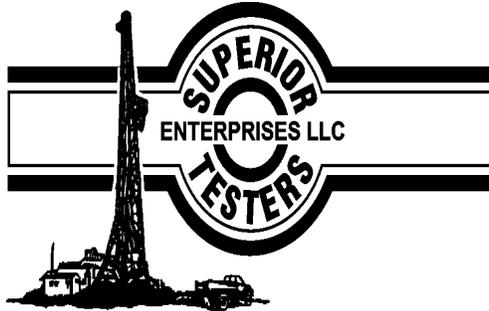
Recovery Table

Length ft	Description	Volume bbl
100.00	Slightley oil cut mud 20%oil 80%mud	0.492

Total Length: 100.00 ft Total Volume: 0.492 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







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8100 E 22nd ST N # 700 Wichita KS 67278

ATTN: Adam

Eaton Trust #1

24-13s-32w Logan

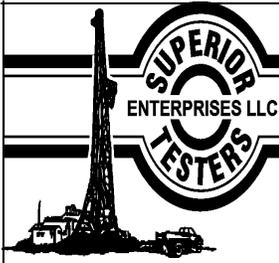
Start Date: 2011.12.31 @ 23:39:00

End Date: 2012.01.01 @ 07:31:00

Job Ticket #: 18669 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.01.01 @ 08:59:50



DRILL STEM TEST REPORT

TOOL DIAGRAM

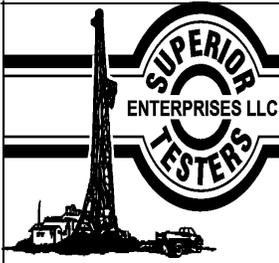
Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18669 **DST#: 3**
 Test Start: 2011.12.31 @ 23:39:00

Tool Information

Drill Pipe:	Length: 3515.00 ft	Diameter: 3.80 inches	Volume: 49.31 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 52.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4101.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	49.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4084.00	
Hydraulic Tool	5.00			4089.00	
Safety Joint	2.00			4091.00	
Packer	5.00			4096.00	22.00 Bottom Of Top Packer
Packer	5.00			4101.00	
Anchor	22.00			4123.00	
Recorder	1.00	8419	Inside	4124.00	
Recorder	1.00	8524	Outside	4125.00	
Bullnose	3.00			4128.00	27.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



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FLUID SUMMARY

Ritchie Exploration Inc
8100 E 22nd ST N # 700 Wichita KS 67278
ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
Job Ticket: 18669 **DST#: 3**
Test Start: 2011.12.31 @ 23:39:00

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: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

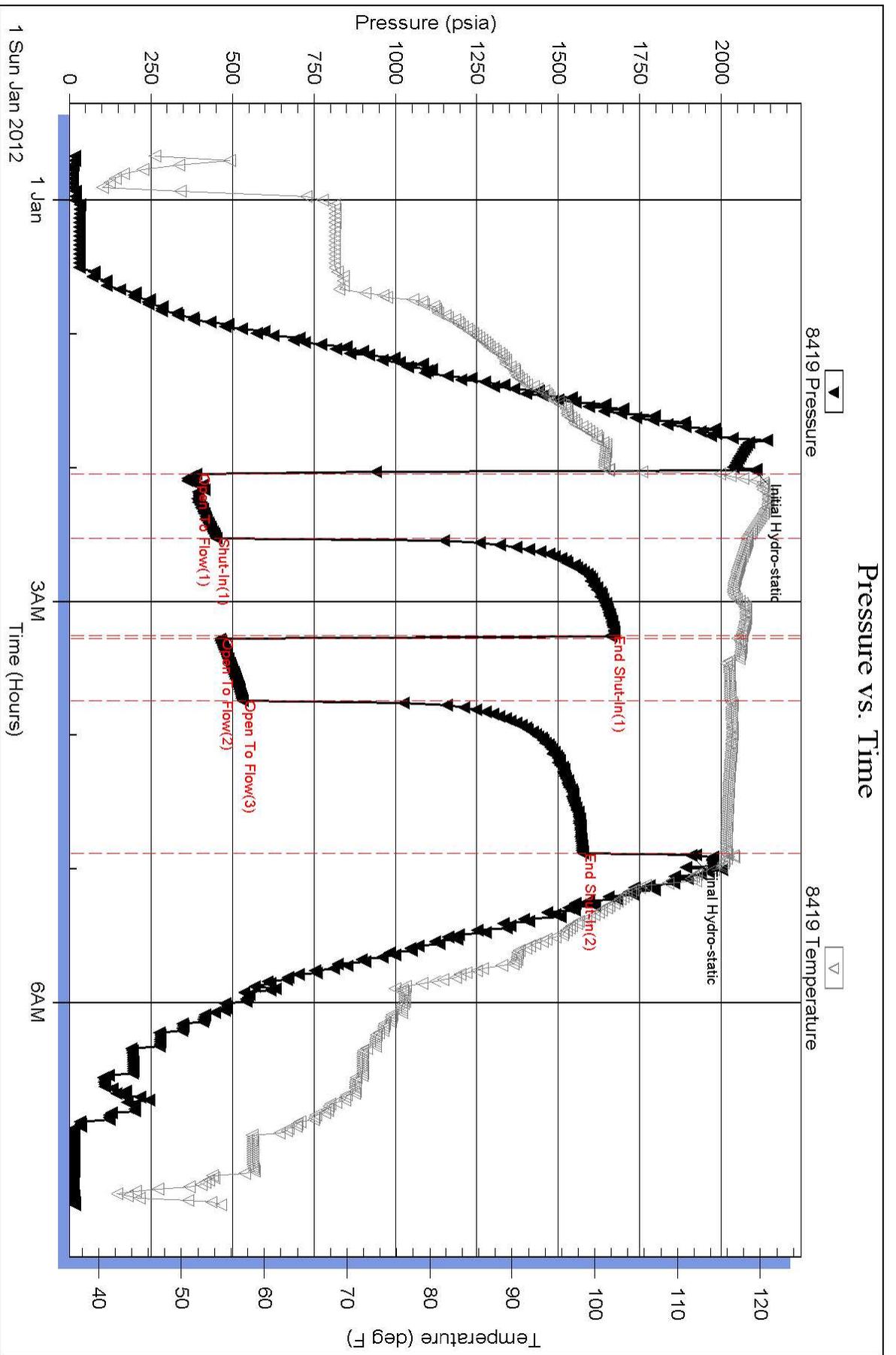
Recovery Information

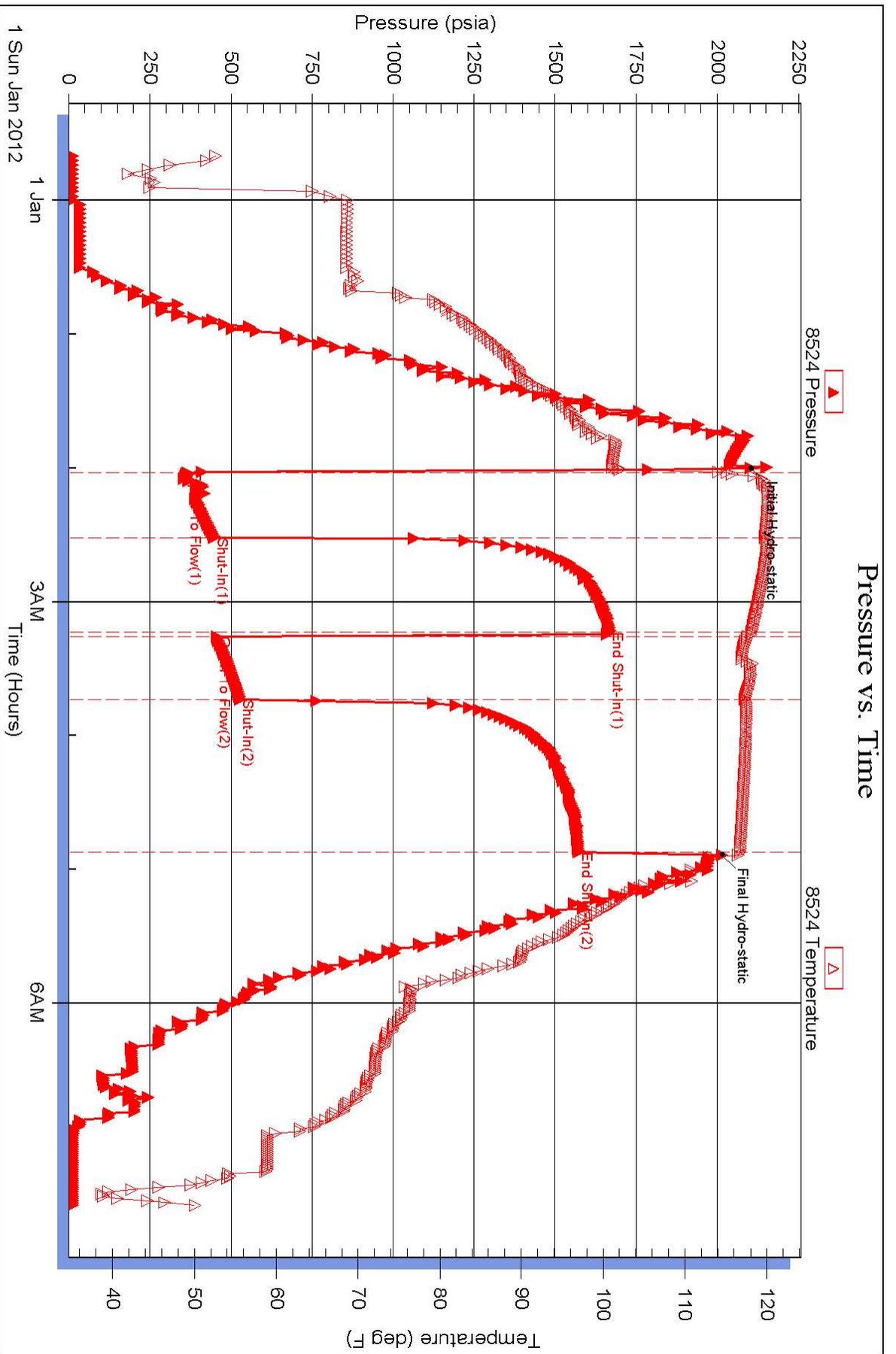
Recovery Table

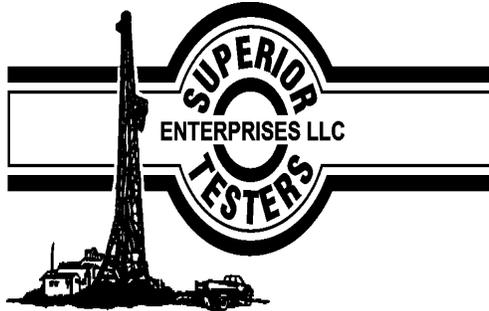
Length ft	Description	Volume bbl
570.00	oil cut mud 60% mud 40% oil	2.803
665.00	oil cut mud 75% mud 25% oil	9.328

Total Length: 1235.00 ft Total Volume: 12.131 bbl

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







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd ST N # 700 Wichita KS 67278

ATTN: Adam

Eaton Trust #1

24-13s-32w Logan

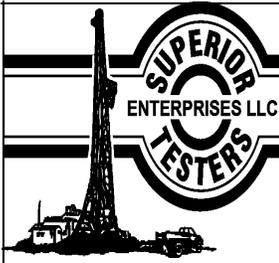
Start Date: 2012.01.01 @ 15:33:00

End Date: 2012.01.01 @ 22:17:00

Job Ticket #: 18670 DST #: 4

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.01.01 @ 22:27:36



DRILL STEM TEST REPORT

TOOL DIAGRAM

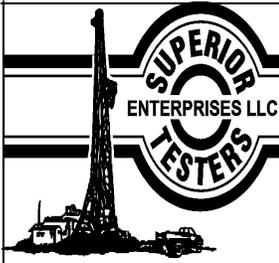
Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18670 **DST#: 4**
 Test Start: 2012.01.01 @ 15:33:00

Tool Information

Drill Pipe:	Length: 3572.00 ft	Diameter: 3.80 inches	Volume: 50.11 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 52.91 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4134.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4117.00	
Hydraulic Tool	5.00			4122.00	
Safety Joint	2.00			4124.00	
Packer	5.00			4129.00	22.00 Bottom Of Top Packer
Packer	5.00			4134.00	
Anchor	20.00			4154.00	
Recorder	1.00	8419	Inside	4155.00	
Recorder	1.00	8524	Outside	4156.00	
Bullnose	3.00			4159.00	25.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18670 **DST#: 4**
 Test Start: 2012.01.01 @ 15:33:00

Mud and Cushion Information

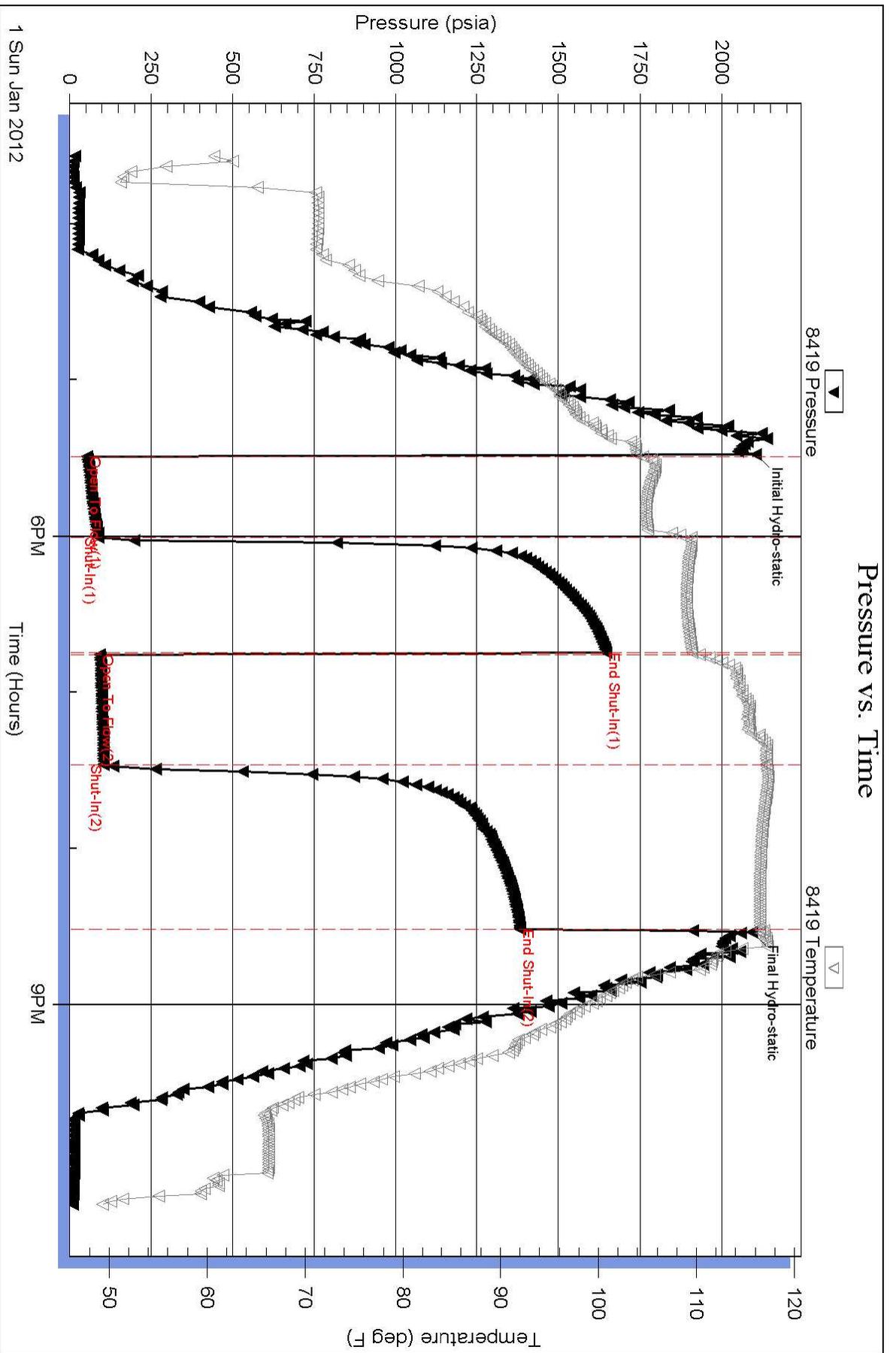
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

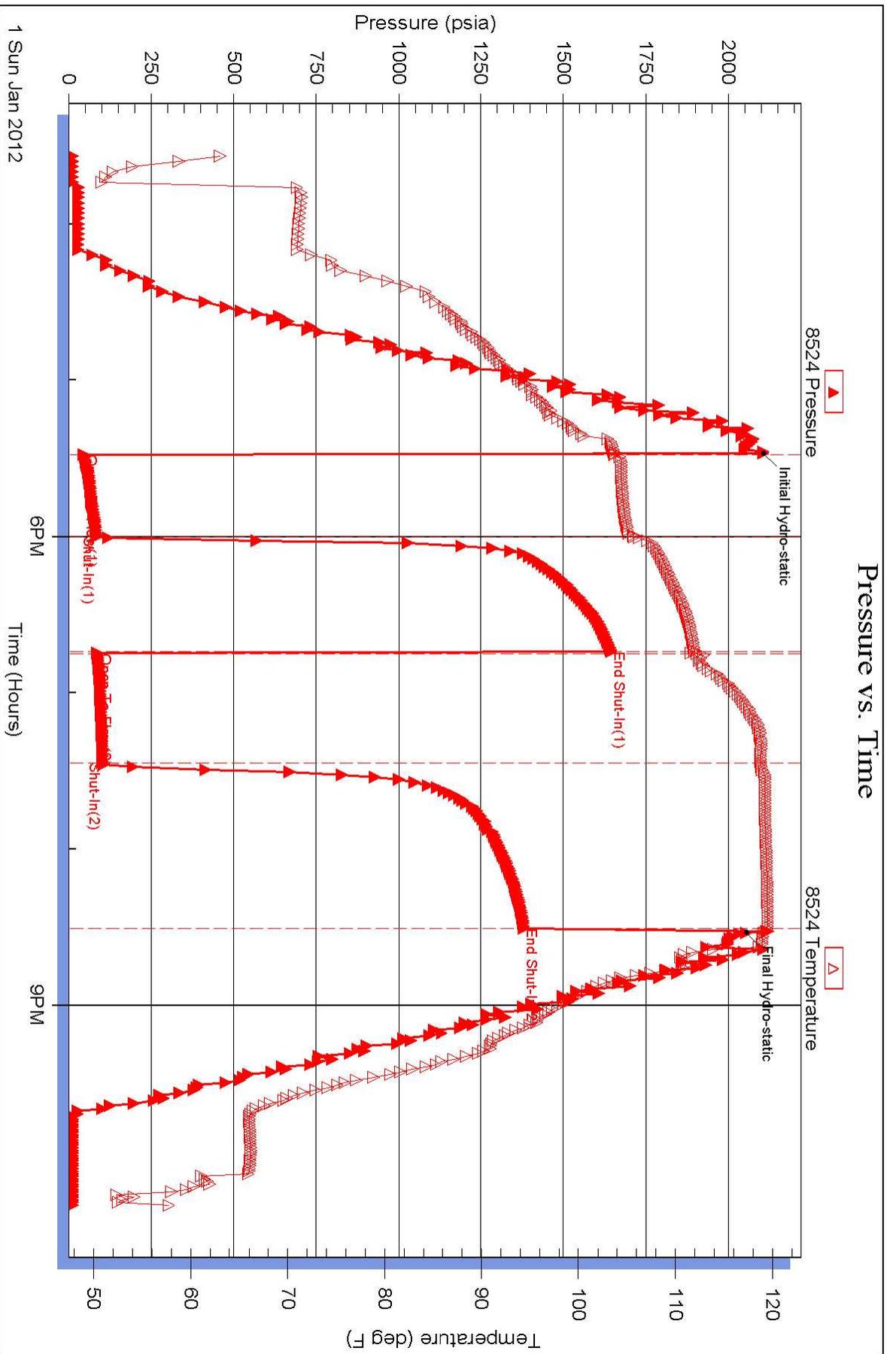
Recovery Information

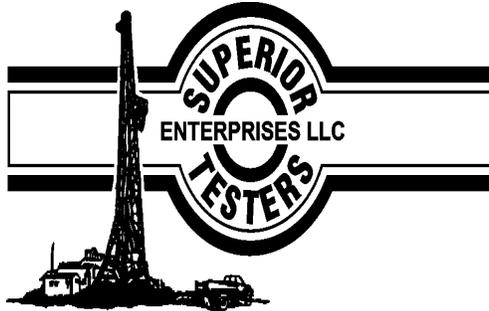
Recovery Table

Length ft	Description	Volume bbl
100.00	mud	0.492

Total Length: 100.00 ft Total Volume: 0.492 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd ST N # 700 Wichita KS 67278

ATTN: Adam

Eaton Trust #1

24-13s-32w Logan

Start Date: 2012.01.02 @ 06:30:00

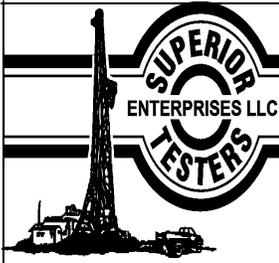
End Date: 2012.01.02 @ 12:51:00

Job Ticket #: 18671 DST #: 5

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.01.02 @ 12:52:12

Ritchie Exploration Inc
24-13s-32w Logan
Eaton Trust #1
DST # 5
Lansing J
2012.01.02



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

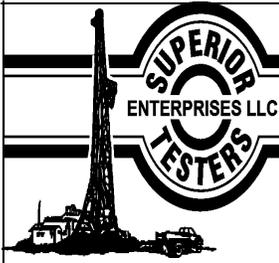
24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18671 **DST#: 5**
 Test Start: 2012.01.02 @ 06:30:00

Tool Information

Drill Pipe:	Length: 3567.00 ft	Diameter: 3.80 inches	Volume: 50.04 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4160.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4137.00	
Hydraulic Tool	5.00			4142.00	
Jars	6.00			4148.00	
Safety Joint	2.00			4150.00	
Packer	5.00			4155.00	28.00 Bottom Of Top Packer
Packer	5.00			4160.00	
Anchor	19.00			4179.00	
Recorder	1.00	8419	Inside	4180.00	
Recorder	1.00	8524	Outside	4181.00	
Bullnose	3.00			4184.00	24.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18671 **DST#: 5**
 Test Start: 2012.01.02 @ 06:30:00

Mud and Cushion Information

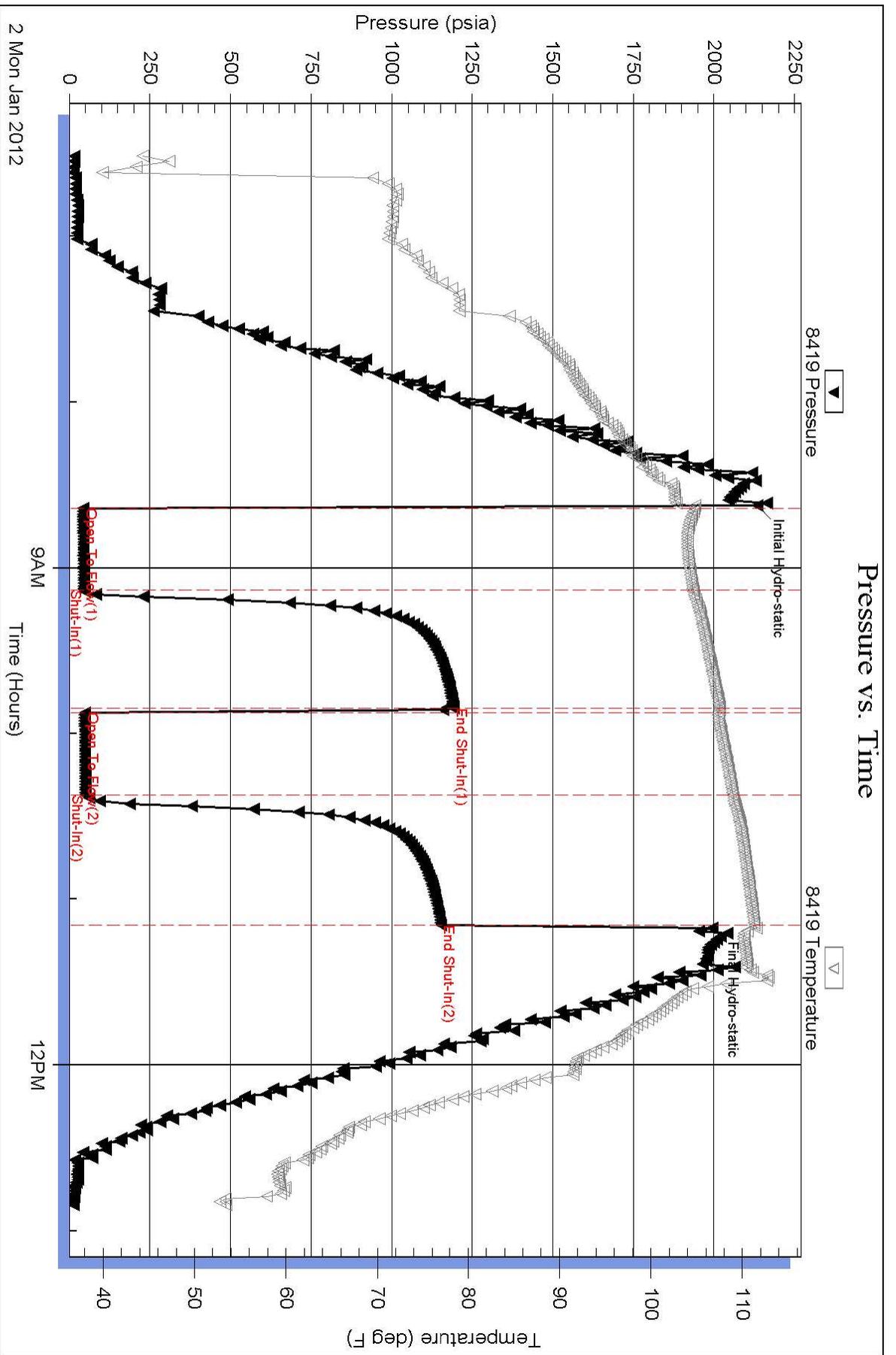
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: sec/qt	Cushion Volume: bbl		
Water Loss: in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: ppm			
Filter Cake: inches			

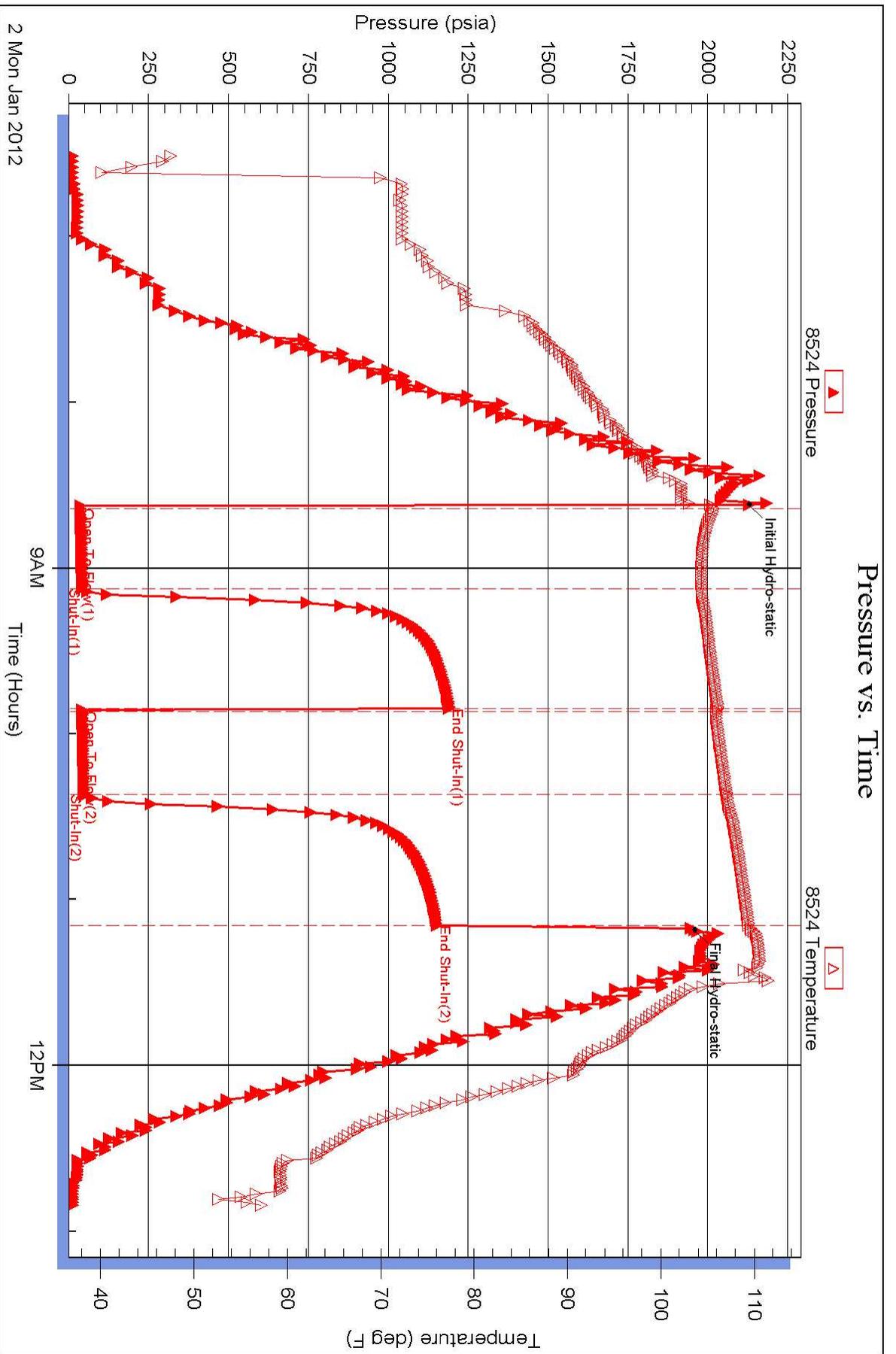
Recovery Information

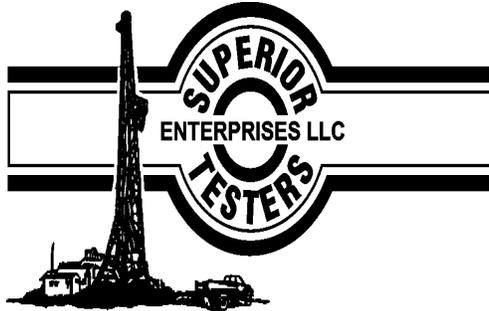
Recovery Table

Length ft	Description	Volume bbl
15.00	mud	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd ST N # 700 Wichita KS 67278

ATTN: Adam

Eaton Trust #1

24-13s-32w Logan

Start Date: 2012.01.02 @ 21:11:00

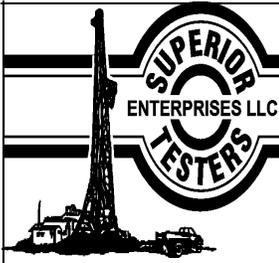
End Date: 2012.01.03 @ 04:27:00

Job Ticket #: 18672 DST #: 6

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.01.03 @ 04:39:56

Ritchie Exploration Inc
24-13s-32w Logan
Eaton Trust #1
DST # 6
Lansing K
2012.01.02



DRILL STEM TEST REPORT

TOOL DIAGRAM

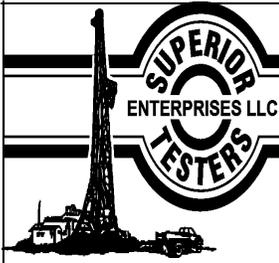
Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18672 **DST#: 6**
 Test Start: 2012.01.02 @ 21:11:00

Tool Information

Drill Pipe:	Length: 3606.00 ft	Diameter: 3.80 inches	Volume: 50.58 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 53.38 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4184.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4167.00	
Hydraulic Tool	5.00			4172.00	
Safety Joint	2.00			4174.00	
Packer	5.00			4179.00	22.00 Bottom Of Top Packer
Packer	5.00			4184.00	
Anchor	31.00			4215.00	
Recorder	1.00	8419	Inside	4216.00	
Recorder	1.00	8524	Outside	4217.00	
Bullnose	3.00			4220.00	36.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18672 **DST#: 6**
 Test Start: 2012.01.02 @ 21:11:00

Mud and Cushion Information

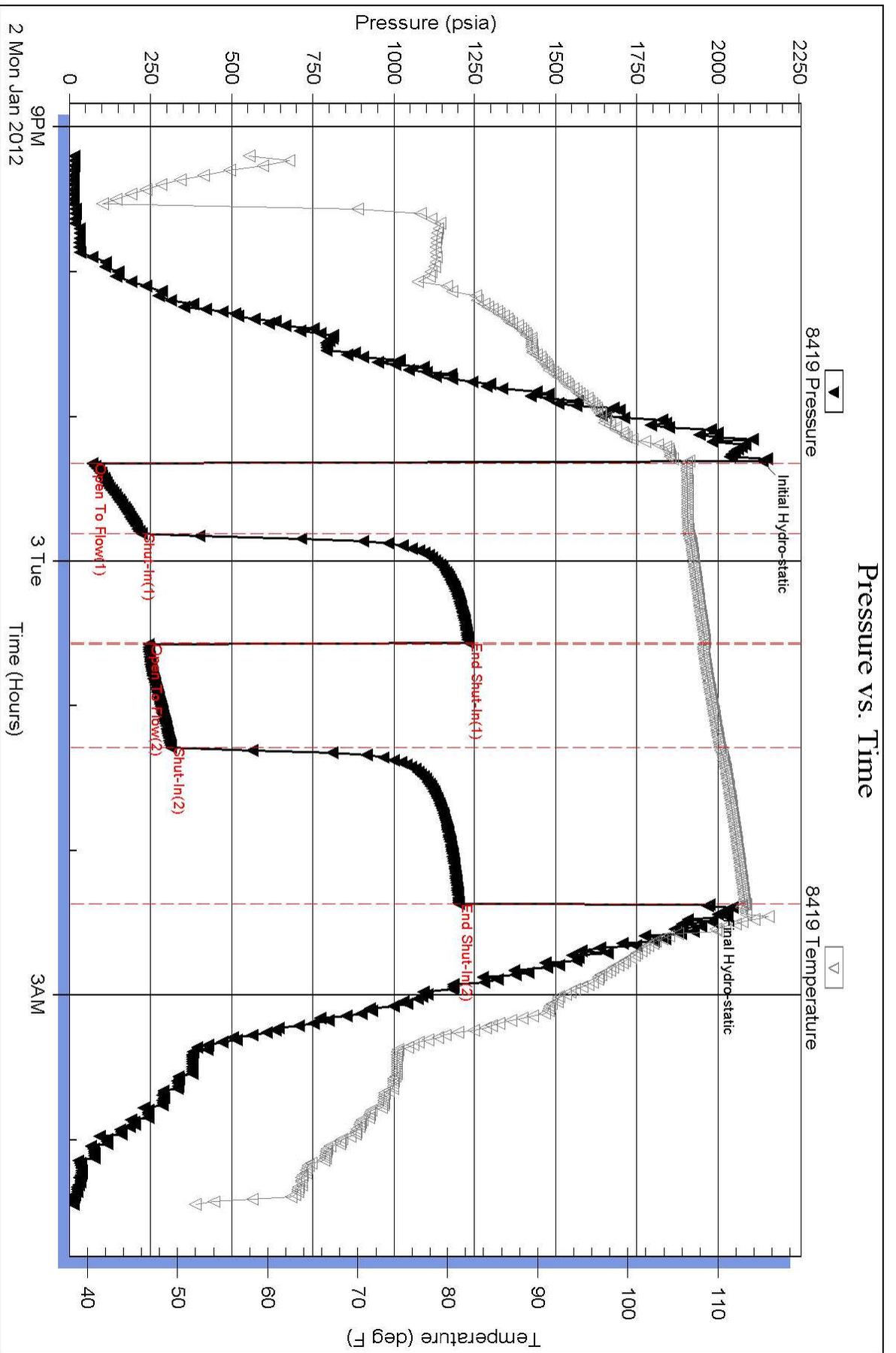
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3200.00 ppm			
Filter Cake: 1.00 inches			

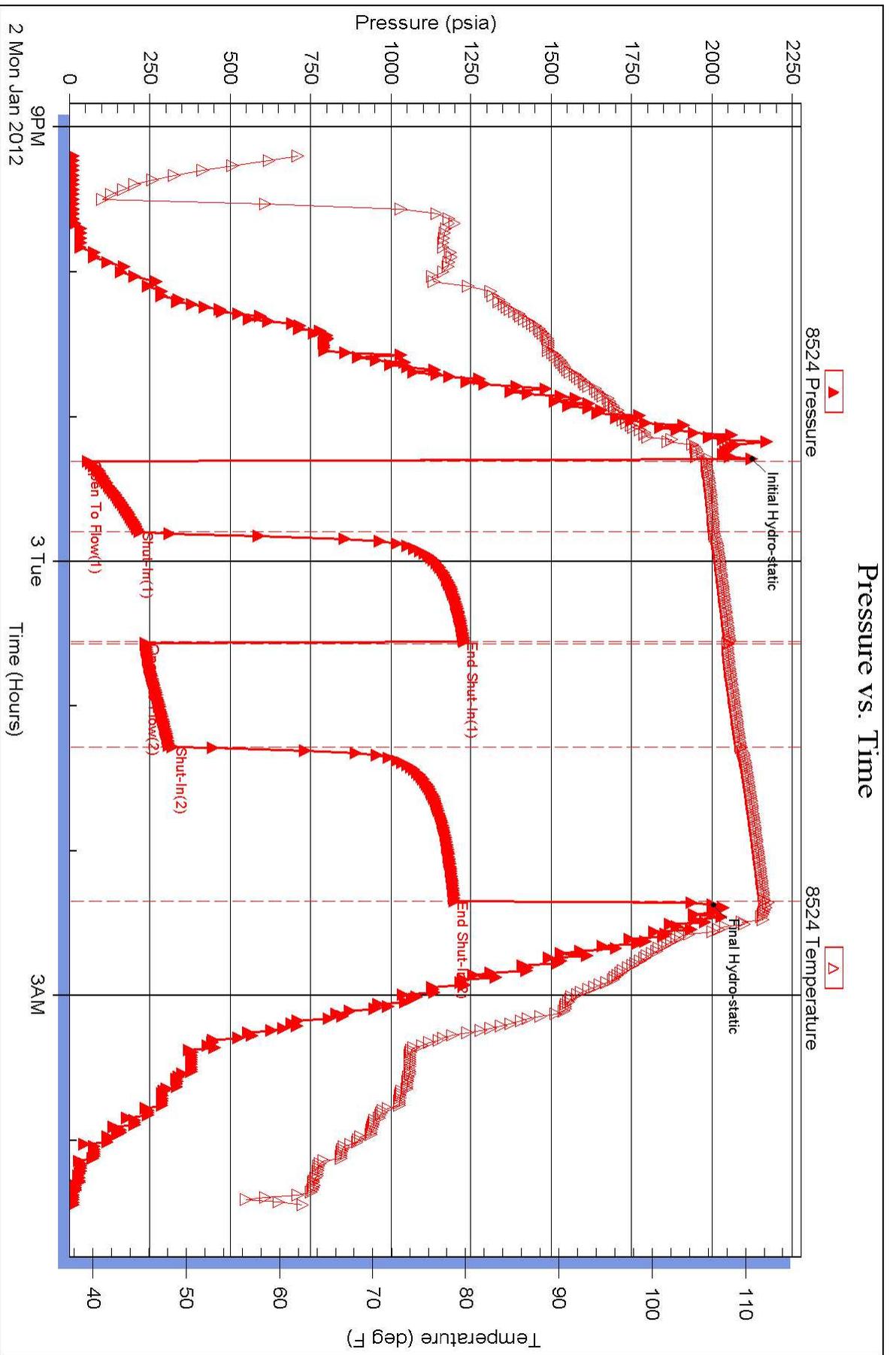
Recovery Information

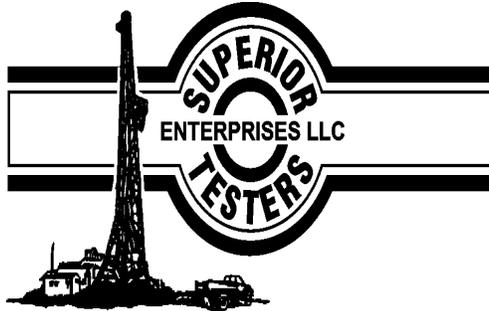
Recovery Table

Length ft	Description	Volume bbl
605.00	Clean gassy oil 15%gas 85%oil	3.294
35.00	Clean gassy oil 15%gas 85%oil	0.491
95.00	muddy oil 10%gas 30%mud 60%oil	1.333
0.00	Gravity oil 44	0.000
0.00	760 feet gas in pipe	0.000

Total Length: 735.00 ft Total Volume: 5.118 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd ST N # 700 Wichita KS 67278

ATTN: Adam

Eaton Trust #1

24-13s-32w Logan

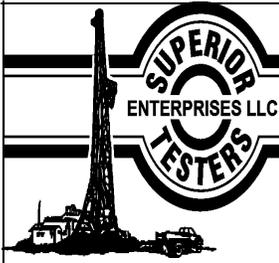
Start Date: 2012.01.03 @ 14:47:00

End Date: 2012.01.03 @ 22:23:00

Job Ticket #: 18673 DST #: 7

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.01.03 @ 22:36:18



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

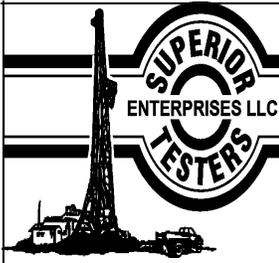
24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18673 **DST#: 7**
 Test Start: 2012.01.03 @ 14:47:00

Tool Information

Drill Pipe:	Length: 3637.00 ft	Diameter: 3.80 inches	Volume: 51.02 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 53.82 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4220.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	64.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4203.00	
Hydraulic Tool	5.00			4208.00	
Safety Joint	2.00			4210.00	
Packer	5.00			4215.00	22.00 Bottom Of Top Packer
Packer	5.00			4220.00	
Anchor	37.00			4257.00	
Recorder	1.00	8419	Inside	4258.00	
Recorder	1.00	8524	Outside	4259.00	
Bullnose	3.00			4262.00	42.00 Bottom Packers & Anchor
Total Tool Length:	64.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18673 **DST#: 7**
 Test Start: 2012.01.03 @ 14:47:00

Mud and Cushion Information

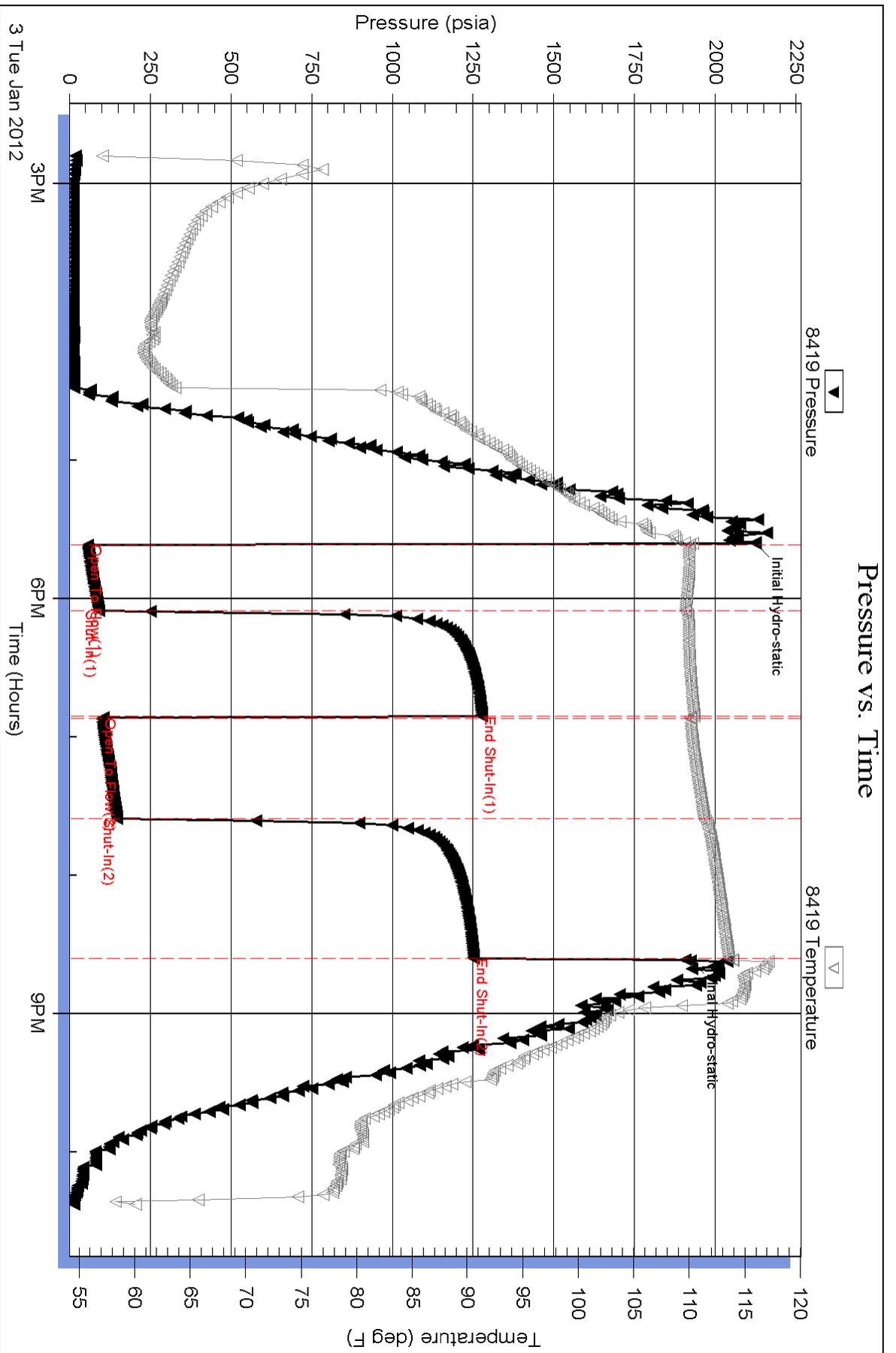
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

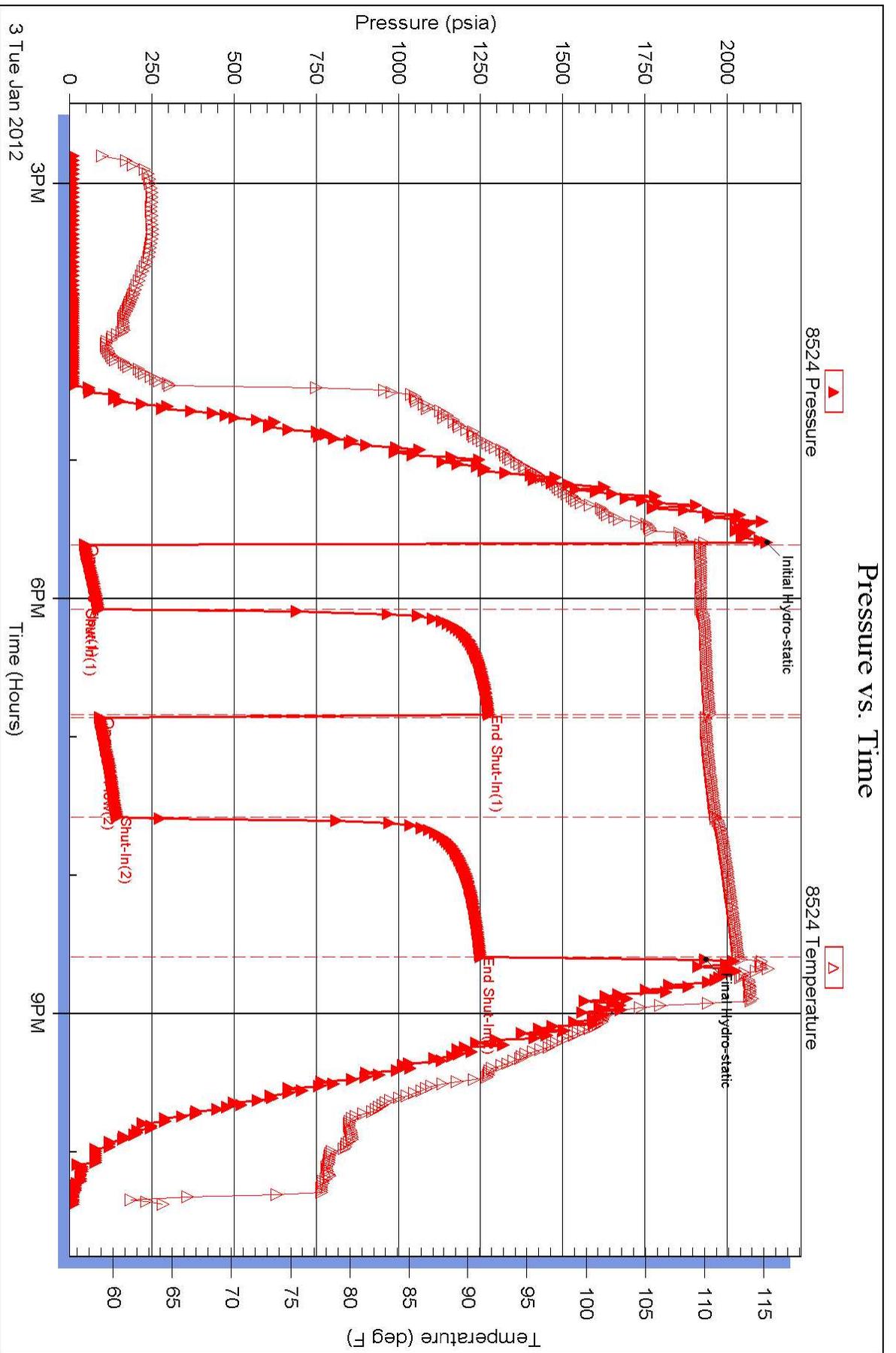
Recovery Information

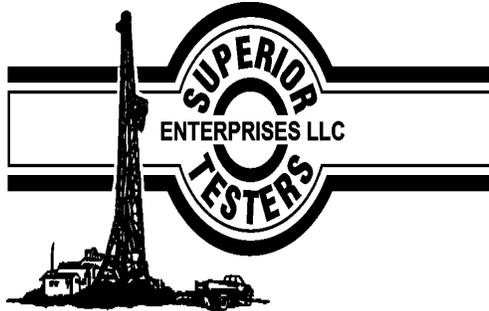
Recovery Table

Length ft	Description	Volume bbl
200.00	Muddy water 50%mud 50%w ater	0.984
0.00	Resistivity .3@67 degrees	0.000
0.00	Chlorides 30,000	0.000

Total Length: 200.00 ft Total Volume: 0.984 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd ST N # 700 Wichita KS 67278

ATTN: Adam

Eaton Trust #1

24-13s-32w Logan

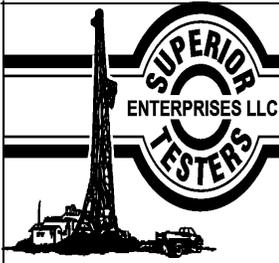
Start Date: 2012.01.05 @ 13:51:00

End Date: 2012.01.05 @ 20:36:00

Job Ticket #: 18674 DST #: 8

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.01.05 @ 20:44:38



DRILL STEM TEST REPORT

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18674 **DST#: 8**
 Test Start: 2012.01.05 @ 13:51:00

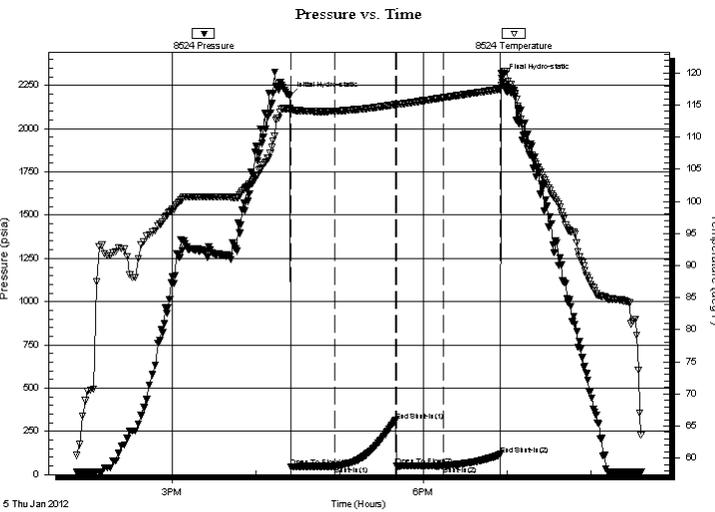
GENERAL INFORMATION:

Formation: **Cher/Johson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:25:30 Tester: Jared Scheck
 Time Test Ended: 20:36:00 Unit No: 3320-Scott City -80
 Interval: **4479.00 ft (KB) To 4520.00 ft (KB) (TVD)** Reference Elevations: 2913.00 ft (KB)
 Total Depth: 4520.00 ft (KB) (TVD) 2903.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8524

Press @ RunDepth: 50.56 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.05 End Date: 2012.01.05 Last Calib.: 2012.01.05
 Start Time: 13:51:00 End Time: 20:36:00 Time On Btm: 2012.01.05 @ 16:24:30
 Time Off Btm: 2012.01.05 @ 18:56:00

TEST COMMENT: 1st Opening 30 Minutes-Very weak surface blow steady steady throughout open
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 30 Minutes-Very weak surge did not build
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

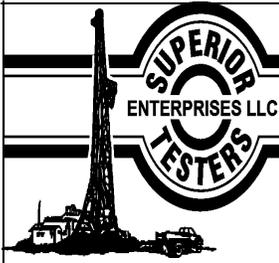
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2189.82	114.45	Initial Hydro-static
1	46.68	114.21	Open To Flow (1)
32	48.77	114.06	Shut-In(1)
76	312.44	115.09	End Shut-In(1)
77	48.73	115.11	Open To Flow (2)
110	50.56	116.14	Shut-In(2)
151	116.53	117.47	End Shut-In(2)
152	2292.41	119.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 8100 E 22nd ST N # 700 Wichita KS 67278
 ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
 Job Ticket: 18674 **DST#: 8**
 Test Start: 2012.01.05 @ 13:51:00

Tool Information

Drill Pipe:	Length: 3917.00 ft	Diameter: 3.80 inches	Volume: 54.95 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose:	67000.00 lb
			<u>Total Volume: 57.75 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4479.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4462.00	
Hydraulic Tool	5.00			4467.00	
Safety Joint	2.00			4469.00	
Packer	5.00			4474.00	22.00 Bottom Of Top Packer
Packer	5.00			4479.00	
Anchor	36.00			4515.00	
Recorder	1.00	8419	Inside	4516.00	
Recorder	1.00	8524	Outside	4517.00	
Bullnose	3.00			4520.00	41.00 Bottom Packers & Anchor
Total Tool Length:	63.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
8100 E 22nd ST N # 700 Wichita KS 67278
ATTN: Adam

24-13s-32w Logan
Eaton Trust #1
Job Ticket: 18674 **DST#: 8**
Test Start: 2012.01.05 @ 13:51:00

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:	54.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.60 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	3600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	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:

