



DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641
Hays Ks 67601

ATTN: Ken Vehige

28-4s-22w Norton

Sansom #5

Start Date: 2005.07.12 @ 11:27:12

End Date: 2005.07.12 @ 17:21:11

Job Ticket #: 22093 DST #: 1

RECEIVED
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KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Black Diamond Oil Inc

PO Box 641
Hays Ks 67601

ATTN: Ken Vehige

Sansom #5

28-4s-22w Norton

Job Ticket: 22093

DST#: 1

Test Start: 2005.07.12 @ 11:27:12

GENERAL INFORMATION:

Formation: **Gorham sd - Arbuckle**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 13:54:41

Time Test Ended: 17:21:11

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3698.00 ft (KB) To 3717.00 ft (KB) (TVD)**

Total Depth: **3717.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2278.00 ft (KB)**

2270.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8167

Inside

Press@RunDepth: **19.54 psig @ 3699.01 ft (KB)**

Start Date: **2005.07.12**

End Date:

2005.07.12

Capacity: **7000.00 psig**

Last Calib.: **2005.07.12**

Start Time: **11:27:12**

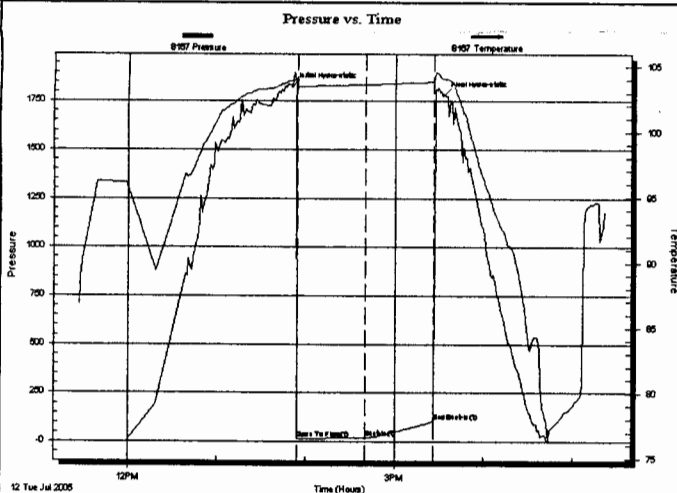
End Time:

17:21:11

Time On Btm: **2005.07.12 @ 13:51:11**

Time Off Btm: **2005.07.12 @ 15:32:41**

TEST COMMENT: **FP-w k surface bl thru-out**
Times 45-45-out



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.88	103.96	Initial Hydro-static
4	15.48	103.56	Open To Flow (1)
49	19.54	103.64	Shut-In(1)
95	104.83	103.83	End Shut-In(1)
102	1781.03	104.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	CO	0.01
9.00	OCM 8% O 92% O	0.13

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc

Sansom #5

PO Box 641
Hays Ks 67601

28-4s-22w Norton

Job Ticket: 22093

DST#:1

ATTN: Ken Vehige

Test Start: 2005.07.12 @ 11:27:12

Tool Information

Drill Pipe:	Length: 3682.00 ft	Diameter: 3.80 inches	Volume: 51.65 bbl	Tool Weight:	2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			Total Volume: 51.65 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3698.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.02 ft				
Tool Length:	40.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3678.00	
Shut In Tool	5.00			3683.00	
Hydraulic tool	5.00			3688.00	
Packer	5.00			3693.00	21.00 Bottom Of Top Packer
Packer	5.00			3698.00	
Stubb	1.00			3699.00	
Recorder	0.01	8167	Inside	3699.01	
Perforations	15.00			3714.01	
Recorder	0.01	13534	Outside	3714.02	
Bullnose	3.00			3717.02	19.02 Bottom Packers & Anchor
Total Tool Length:	40.02				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Inc

Sansom #5

PO Box 641
Hays Ks 67601

28-4s-22w Norton

Job Ticket: 22093

DST#: 1

ATTN: Ken Vehige

Test Start: 2005.07.12 @ 11:27:12

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 8.37 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	CO	0.014
9.00	OCM 8%O 92%O	0.126

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

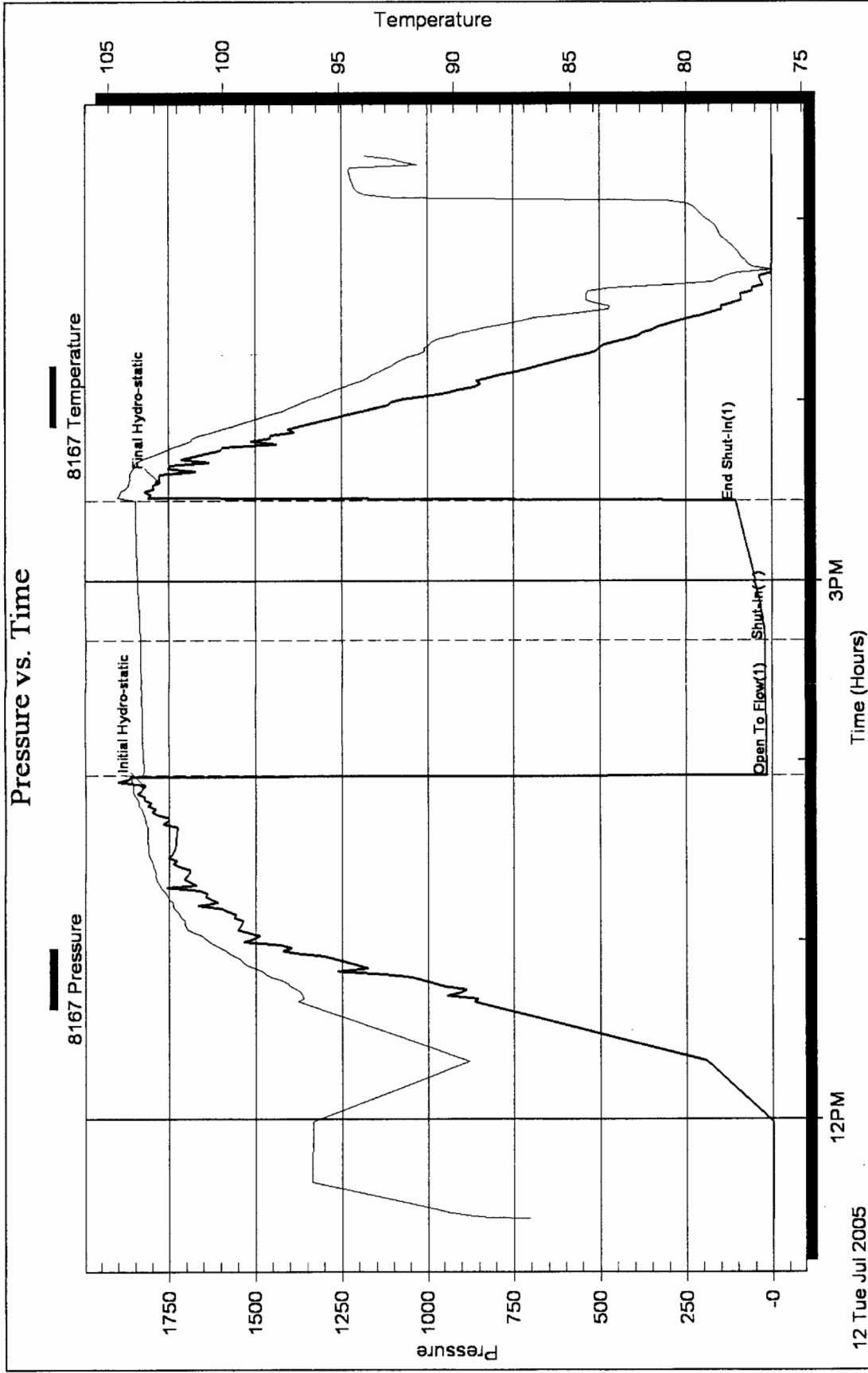
28-4s-22w Norton

Black Diamond Oil Inc

Inside

Serial #: 8167

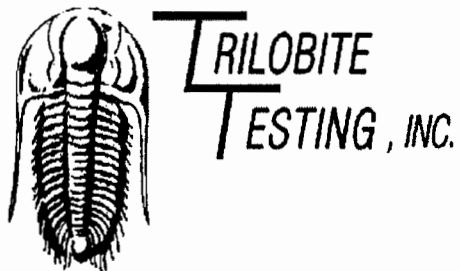
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 22093

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DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641
Hays Ks 67601

ATTN: Ken Vehige

28-4s-22w Norton

Sansom #5

Start Date: 2005.07.13 @ 11:14:48

End Date: 2005.07.13 @ 17:01:17

Job Ticket #: 22094 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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DRILL STEM TEST REPORT

Black Diamond Oil Inc

PO Box 641
Hays Ks 67601

ATTN: Ken Vehige

Sansom #5

28-4s-22w Norton

Job Ticket: 22094

DST#: 2

Test Start: 2005.07.13 @ 11:14:48

GENERAL INFORMATION:

Formation: LKC "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:14:17

Time Test Ended: 17:01:17

Test Type: Conventional Straddle

Tester: Ray Schwager

Unit No: 28

Interval: 3437.00 ft (KB) To 3460.00 ft (KB) (TVD)

Total Depth: 3796.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2278.00 ft (KB)

2270.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8167

Inside

Press@RunDepth: 24.06 psig @ 3438.01 ft (KB)

Start Date: 2005.07.13

End Date:

2005.07.13

Start Time: 11:14:48

End Time:

17:01:17

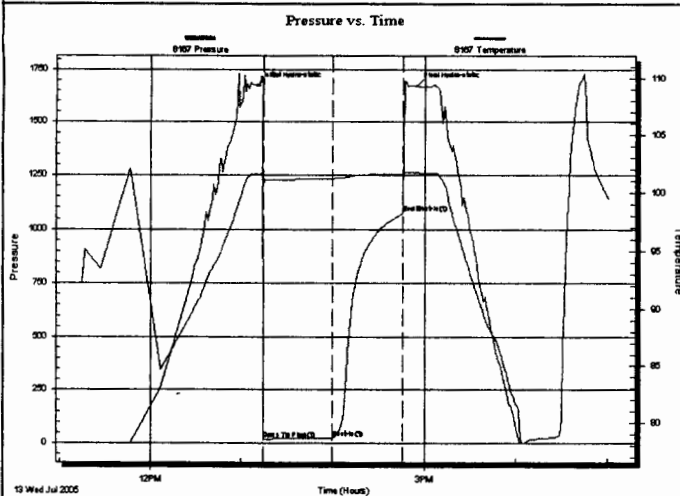
Capacity: 7000.00 psig

Last Calib.: 2005.07.13

Time On Btm: 2005.07.13 @ 13:10:17

Time Off Btm: 2005.07.13 @ 14:54:47

TEST COMMENT: FP-wk surface bl thru-out
Times 45-45-out



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.62	101.61	Initial Hydro-static
4	16.41	100.59	Open To Flow (1)
50	24.06	101.20	Shut-In(1)
96	1073.82	101.62	End Shut-In(1)
105	1671.17	101.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM2%O 98%M	0.14

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc

Sansom #5

PO Box 641
Hays Ks 67601

28-4s-22w Norton

Job Ticket: 22094

DST#: 2

ATTN: Ken Vehige

Test Start: 2005.07.13 @ 11:14:48

Tool Information

Drill Pipe:	Length: 3426.00 ft	Diameter: 3.80 inches	Volume: 48.06 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 48.06 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3437.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	3460.02 ft			
Interval between Packers:	23.02 ft			
Tool Length:	384.03 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3417.00	
Shut In Tool	5.00			3422.00	
Hydraulic tool	5.00			3427.00	
Packer	5.00			3432.00	21.00 Bottom Of Top Packer
Packer	5.00			3437.00	
Stubb	1.00			3438.00	
Recorder	0.01	8167	Inside	3438.01	
Perforations	15.00			3453.01	
Recorder	0.01	13534	Outside	3453.02	
Perforations	3.00			3456.02	
Blank Off Sub	1.00			3457.02	
Blank Spacing	3.00			3460.02	23.02 Tool Interval
Packer	5.00			3465.02	
Stubb	1.00			3466.02	
Perforations	15.00			3481.02	
Recorder	0.01	13547	Below	3481.03	
Blank Spacing	316.00			3797.03	
Bullnose	3.00			3800.03	340.01 Bottom Packers & Anchor

Total Tool Length: 384.03



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Job Ticket: 22094

DST#: 2

ATTN: Ken Vehige

Test Start: 2005.07.13 @ 11:14:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 2%O 98%M	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8167

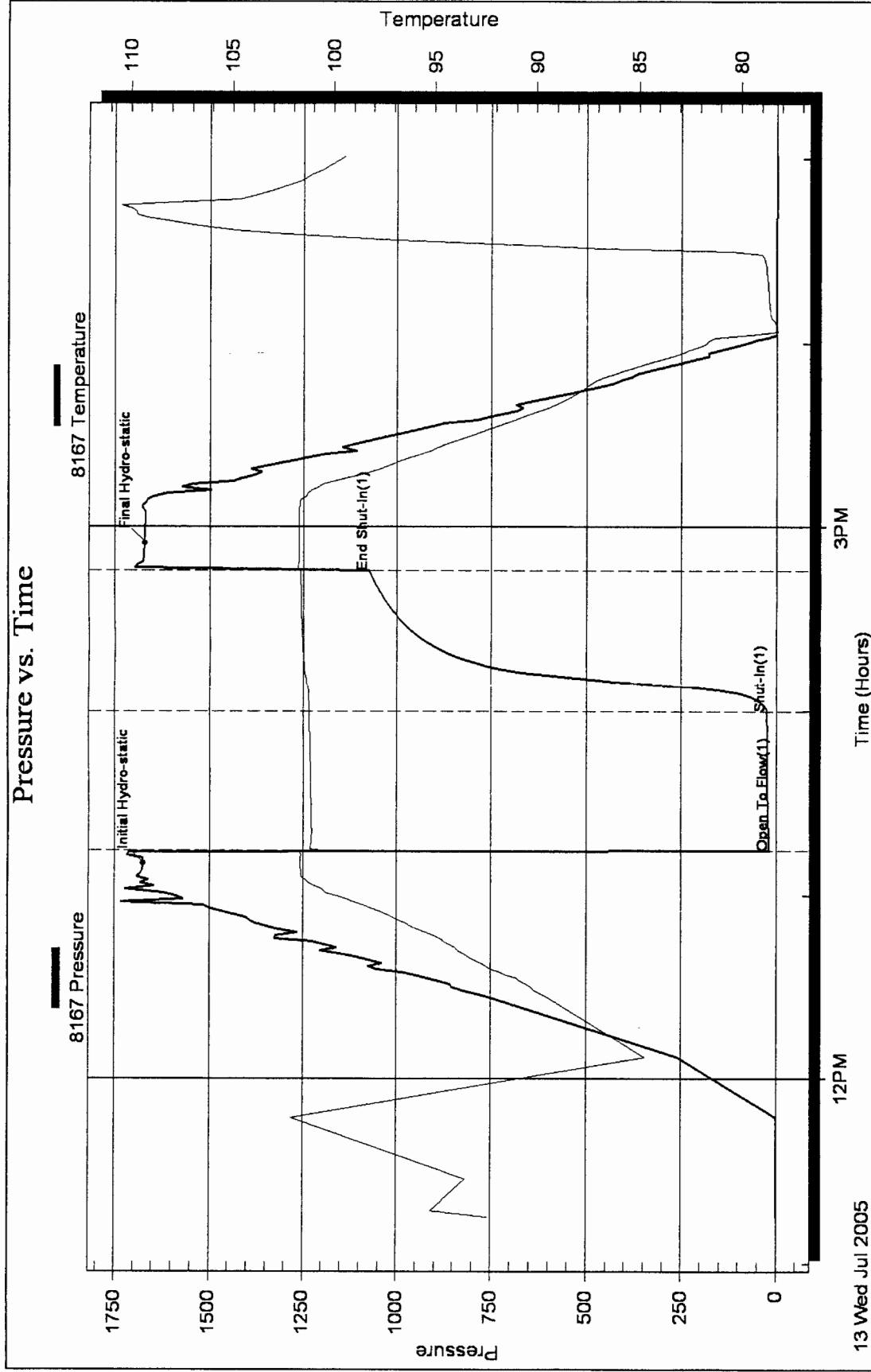
Inside

Black Diamond Oil Inc

28-4s-22w Norton

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 22094

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