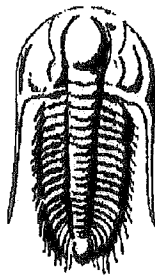


15-163-23850

30-6s-20w

Ind



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

PO Box 641
Hays, KS 67601

ATTN: Tony Richardson

30 6s 20w Rooks KS

States #2

Start Date: 2010.04.12 @ 11:53:00

End Date: 2010.04.12 @ 19:13:00

Job Ticket #: 38309 DST #: 1

RECEIVED

JUL 29 2010

KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil, Inc.

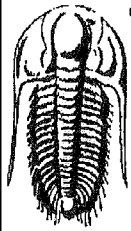
States #2

30 6s 20w Rooks KS

DST # 1

Arbuckle

2010.04.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38309

DST#: 1

ATTN: Tony Richardson

Test Start: 2010.04.12 @ 11:53:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:22:30

Time Test Ended: 19:13:00

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 46

Interval: **3740.00 ft (KB) To 3765.00 ft (KB) (TVD)**

Reference Elevations: 2286.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

2281.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 52.04 psig @ 3741.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.12 End Date: 2010.04.12

Last Calib.: 2010.04.12

Start Time: 11:53:05 End Time: 19:12:59

Time On Btm: 2010.04.12 @ 13:21:00

Time Off Btm: 2010.04.12 @ 17:22:59

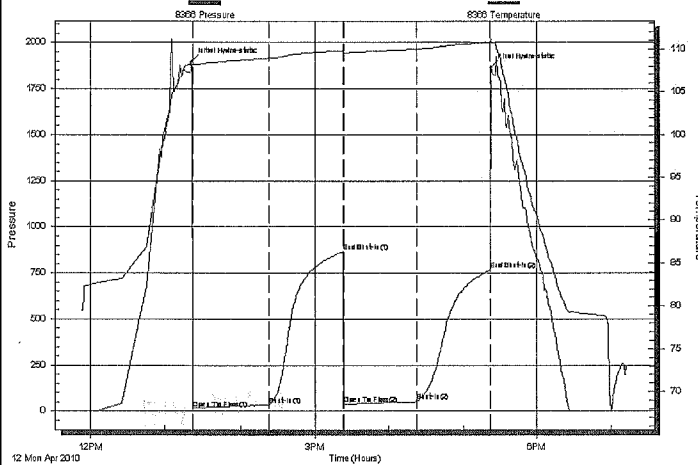
TEST COMMENT: IF: Surging blow, built slowly to 2 3/4"

IS: Bled off, No blow back

FF: Surging blow, built slowly to 2"

FS: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

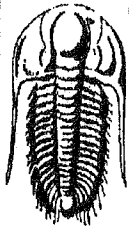
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1897.46	108.45	Initial Hydro-static
2	14.32	108.20	Open To Flow (1)
62	34.80	108.90	Shut-In(1)
122	865.57	109.80	End Shut-In(1)
123	38.04	109.53	Open To Flow (2)
181	52.04	109.96	Shut-In(2)
241	768.23	110.67	End Shut-In(2)
242	1866.60	111.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OM 52% _m , 44% _o , 4% _g	0.30
30.00	CO 91% _o , 5% _m , 4% _g	0.15
0.00	GIP = 35'	0.00
0.00	Gravity = 24 api	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38309

DST#: 1

ATTN: Tony Richardson

Test Start: 2010.04.12 @ 11:53:00

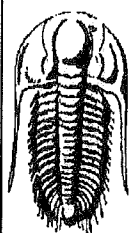
Tool Information

Drill Pipe:	Length: 3609.00 ft	Diameter: 3.80 inches	Volume: 50.62 bbl	Tool Weight: 3000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 51.23 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3740.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	3765.00 ft			
Interval betw een Packers:	25.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

tight spot next 2 after laying down head joint

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			3725.00		
HYD S.I. Tool	5.00			3730.00		
Packer	5.00			3735.00	20.00	Bottom Of Top Packer
Packer	5.00			3740.00		
Stubb	1.00			3741.00		
Recorder	0.00	8366	Inside	3741.00		
Recorder	0.00	8320	Inside	3741.00		
Perforations	19.00			3760.00		
Blank Off Sub	1.00			3761.00		
Blank Spacing	4.00			3765.00	25.00	Tool Interval
Packer	0.00			3765.00		
Shale Packer	0.00			3765.00		
Stubb	1.00			3766.00		
Recorder	0.00	8671	Inside	3766.00		
Perforations	12.00			3778.00		
Blank Spacing	33.00			3811.00		
Bullnose	3.00			3814.00	49.00	Bottom Packers & Anchor
Total Tool Length:	94.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38309 DST#: 1

ATTN: Tony Richardson

Test Start: 2010.04.12 @ 11:53:00

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: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.54 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 0.03 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OM 52% <i>m</i> , 44% <i>o</i> , 4% <i>g</i>	0.305
30.00	CO 91% <i>o</i> , 5% <i>m</i> , 4% <i>g</i>	0.148
0.00	GIP = 35'	0.000
0.00	Gravity = 24 api	0.000

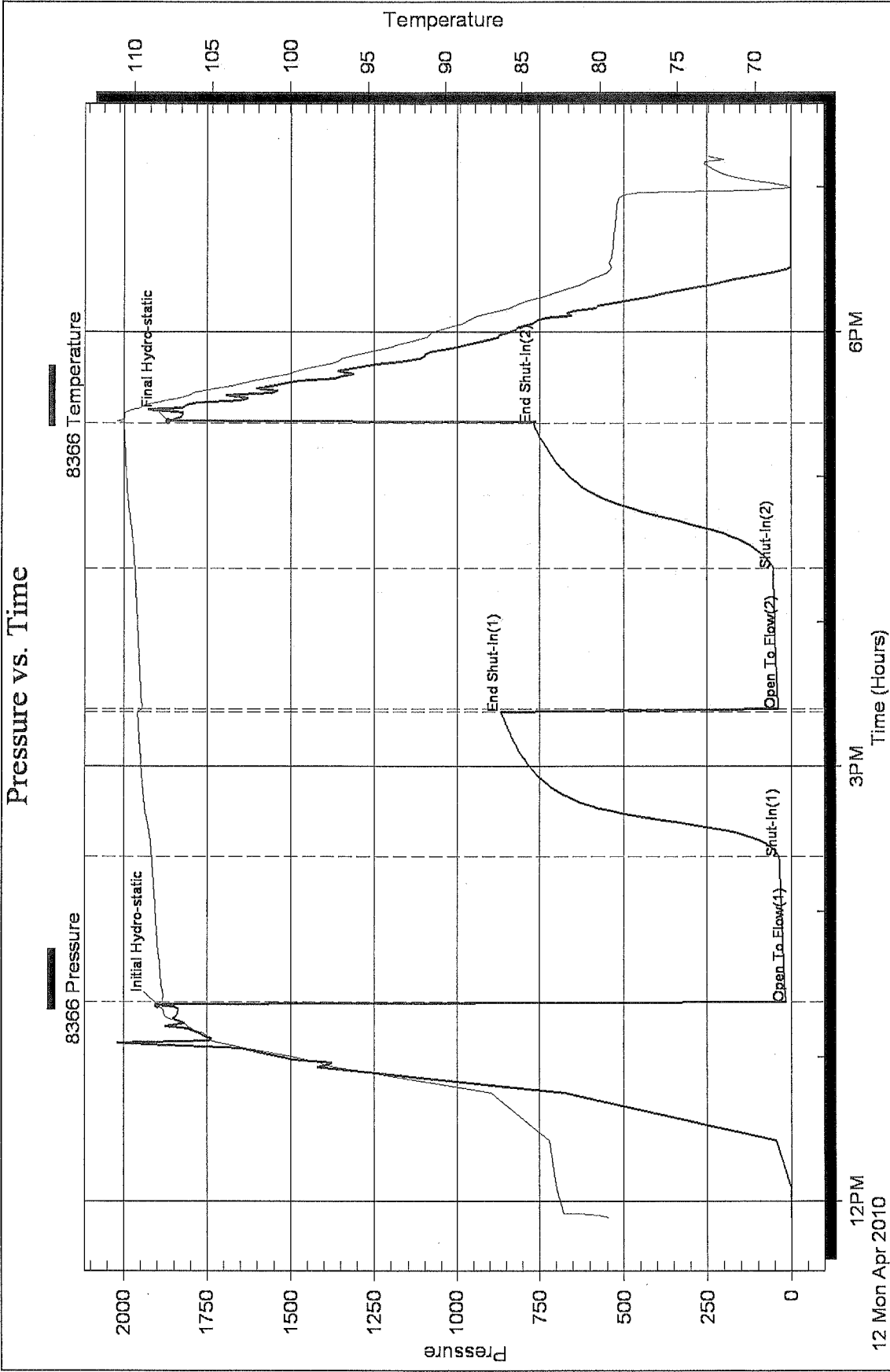
Total Length: 92.00 ft Total Volume: 0.453 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Serial #: 8671

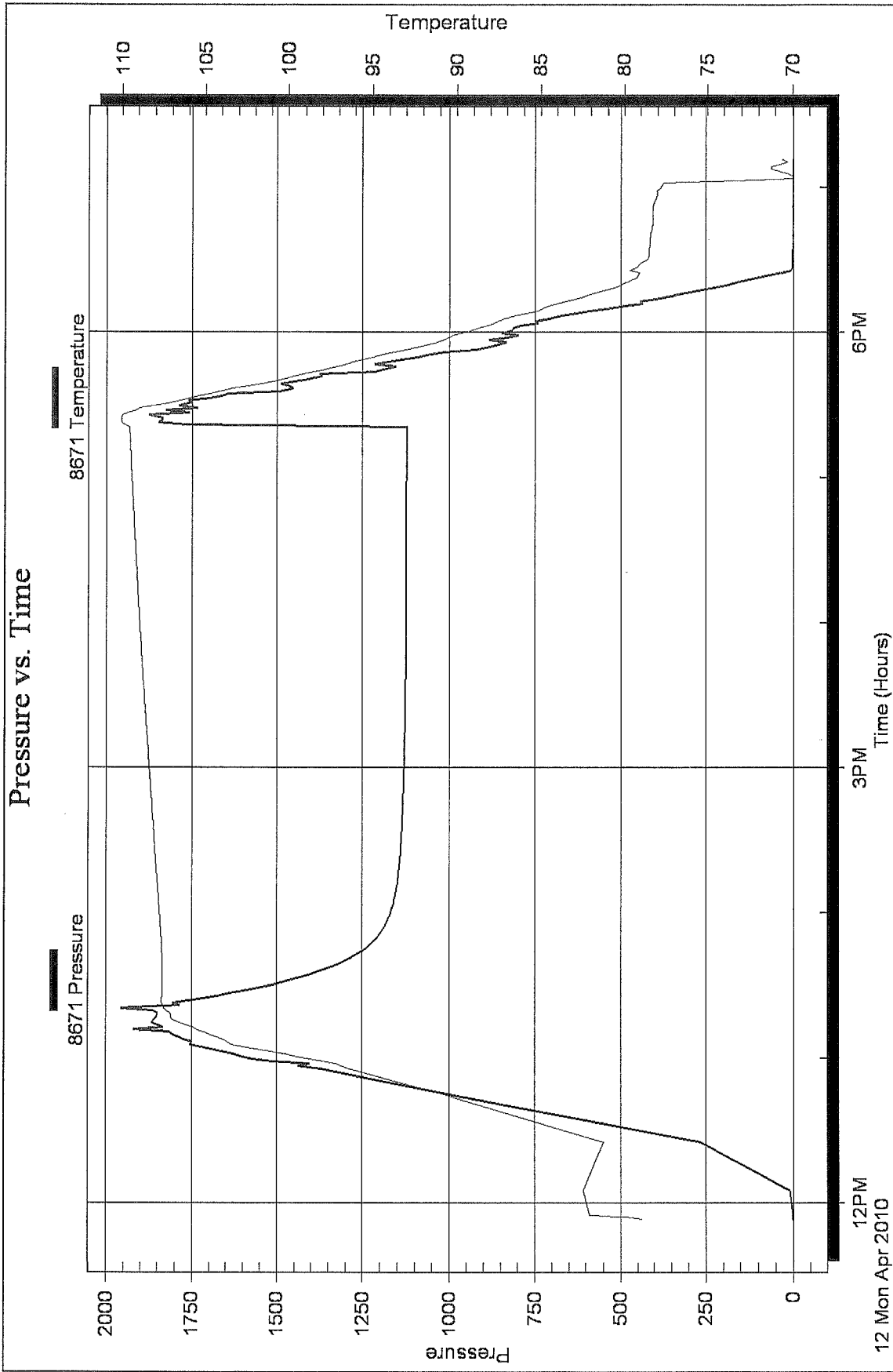
Inside

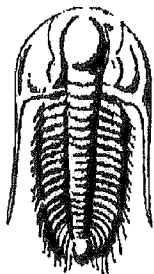
Black Diamond Oil, Inc.

30 6s 20w Rooks KS

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

PO Box 641
Hays, KS 67601

ATTN: Tony Richardson

30 6s 20w Rooks KS

States #2

Start Date: 2010.04.13 @ 00:44:00

End Date: 2010.04.13 @ 09:24:30

Job Ticket #: 38310 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil, Inc.

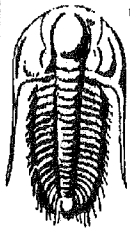
States #2

30 6s 20w Rooks KS

DST # 2

Toronto

2010.04.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38310

DST#: 2

ATTN: Tony Richardson

Test Start: 2010.04.13 @ 00:44:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:39:30

Time Test Ended: 09:24:30

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 46

Interval: **3475.00 ft (KB) To 3515.00 ft (KB) (TVD)**

Reference Elevations: 2286.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

2281.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 58.15 psig @ 3476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.13

End Date: 2010.04.13

Last Calib.: 2010.04.13

Start Time: 00:44:05

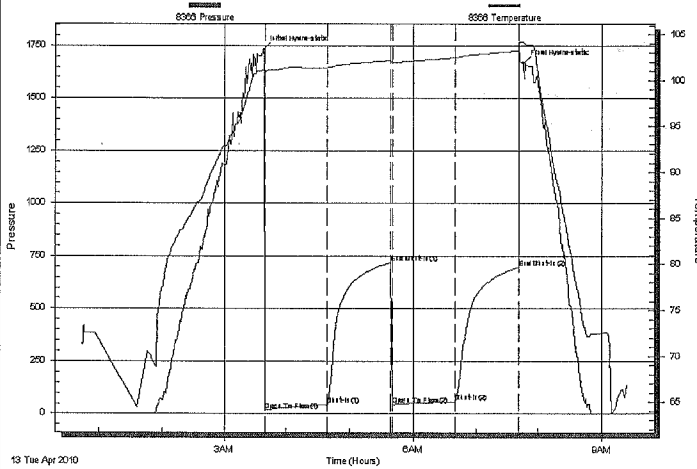
End Time: 09:24:30

Time On Btm: 2010.04.13 @ 03:38:00

Time Off Btm: 2010.04.13 @ 07:45:30

TEST COMMENT: IF: 1/2" blow @ open, built to 3"
IS: Bled off, No blow back
FF: Surface blow @ 16 min., built to 1/2"
FSI: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

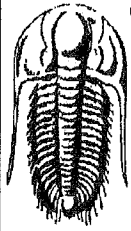
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.45	101.09	Initial Hydro-static
2	16.42	100.74	Open To Flow (1)
62	43.23	101.38	Shut-In(1)
122	718.95	102.17	End Shut-In(1)
123	45.29	101.93	Open To Flow (2)
182	58.15	102.47	Shut-In(2)
243	696.40	103.23	End Shut-In(2)
248	1667.96	104.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
13.00	SOCM 97% _m , 3% _o	0.06
62.00	Mud w/trace oil 100% _m	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38310

DST#: 2

ATTN: Tony Richardson

Test Start: 2010.04.13 @ 00:44:00

Tool Information

Drill Pipe:	Length: 3356.00 ft	Diameter: 3.80 inches	Volume: 47.08 bbl	Tool Weight: 5000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 47.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3475.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	3515.00 ft			
Interval between Packers:	40.00 ft			
Tool Length:	359.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			3460.00		
HYD S.I. Tool	5.00			3465.00		
Packer	5.00			3470.00	20.00	Bottom Of Top Packer
Packer	5.00			3475.00		
Stubb	1.00			3476.00		
Recorder	0.00	8366	Inside	3476.00		
Recorder	0.00	8320	Inside	3476.00		
Perforations	34.00			3510.00		
Blank Off Sub	1.00			3511.00		
Blank Spacing	4.00			3515.00	40.00	Tool Interval
Packer	0.00			3515.00		
Shale Packer	0.00			3515.00		
Stubb	1.00			3516.00		
Recorder	0.00	8671	Inside	3516.00		
Perforations	9.00			3525.00		
Blank Spacing	286.00			3811.00		
Bullnose	3.00			3814.00	299.00	Bottom Packers & Anchor
Total Tool Length:	359.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38310 **DST#: 2**

ATTN: Tony Richardson

Test Start: 2010.04.13 @ 00:44:00

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: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.54 in*	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 0.03 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
13.00	SOCM 97% m, 3% o	0.064
62.00	Mud w / trace oil 100% m	0.305

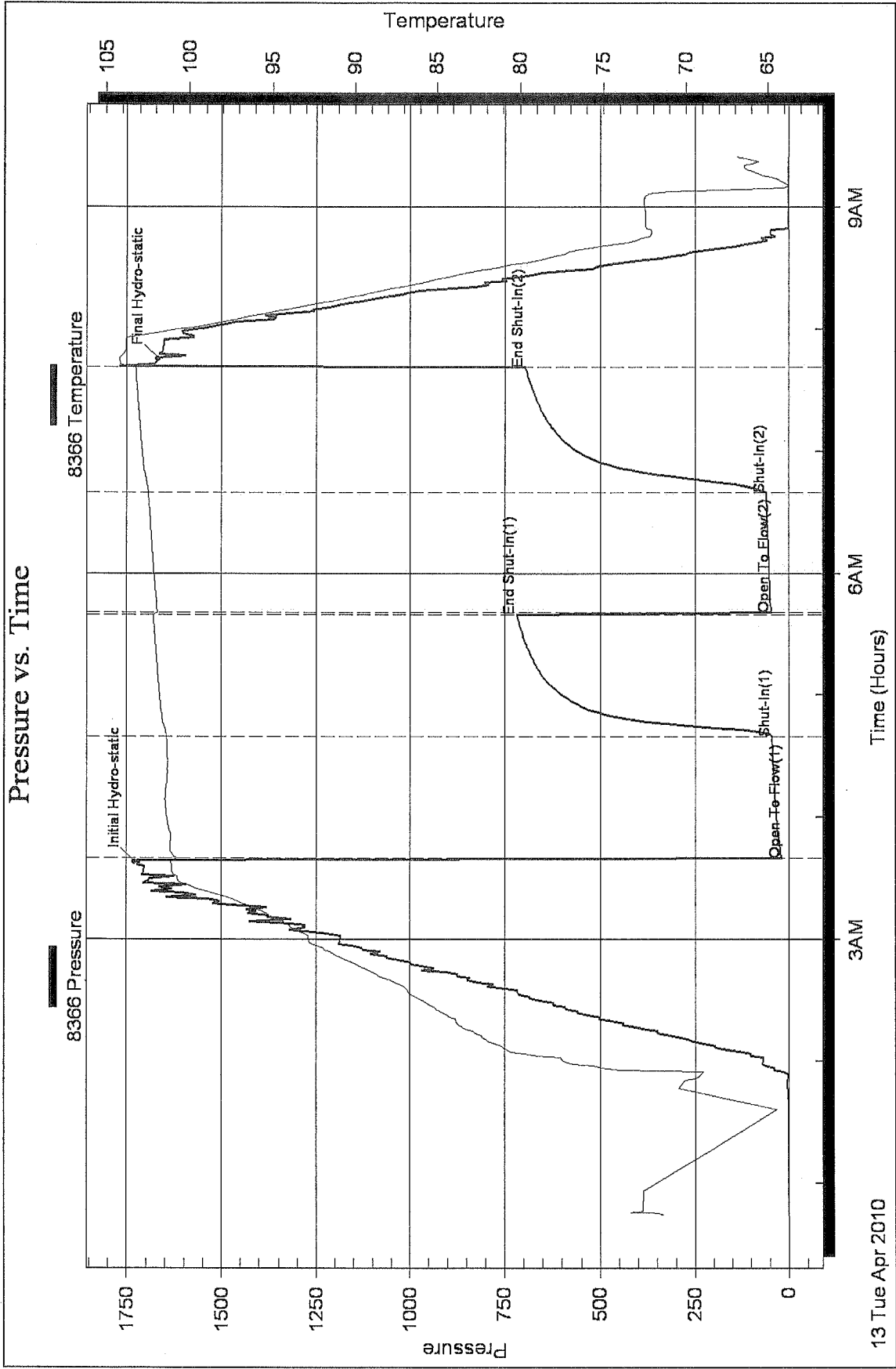
Total Length: 75.00 ft Total Volume: 0.369 bbl

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

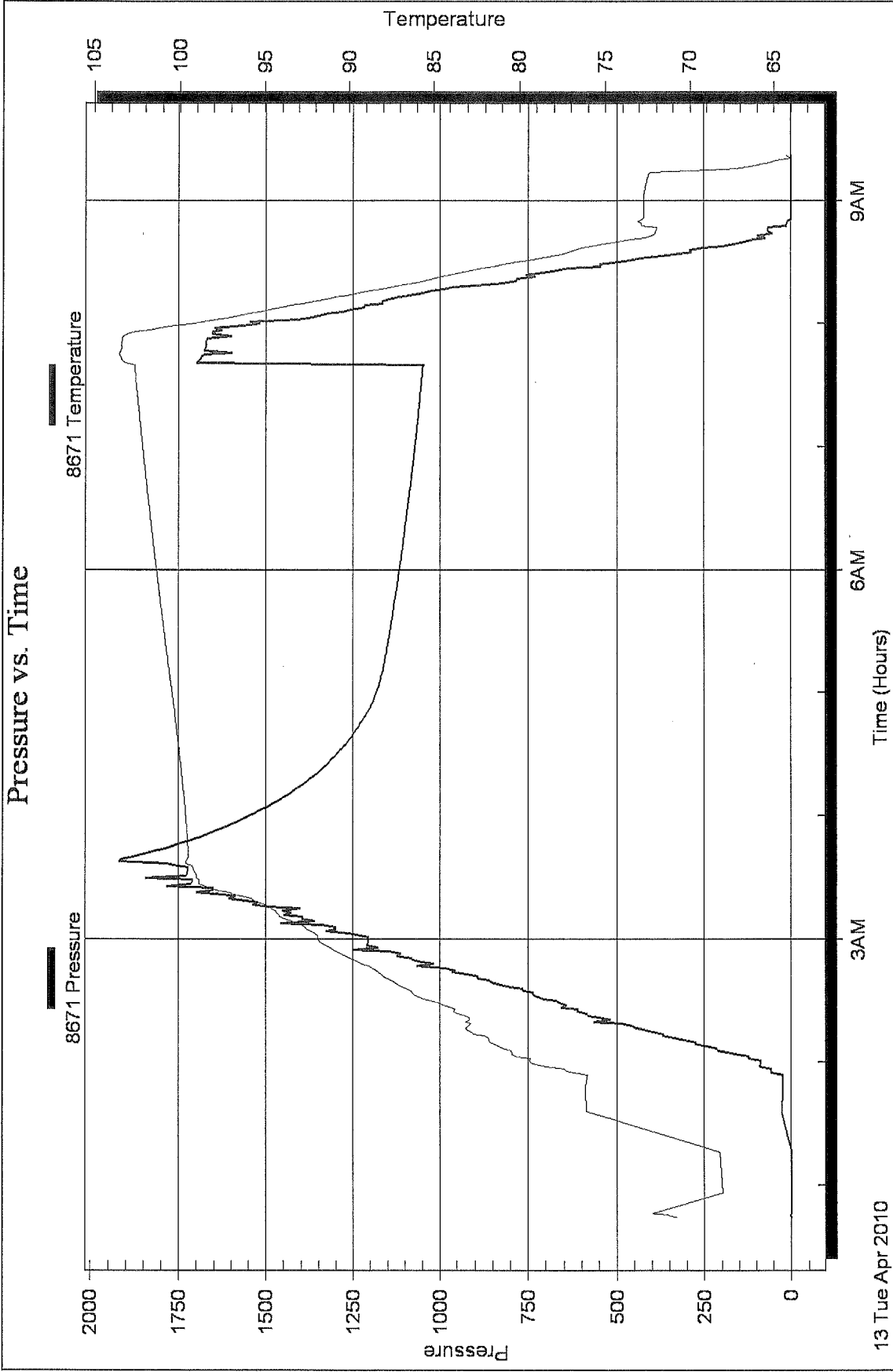
Laboratory Name: Laboratory Location:

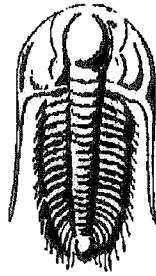
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

PO Box 641
Hays, KS 67601

ATTN: Tony Richardson

30 6s 20w Rooks KS

States #2

Start Date: 2010.04.13 @ 10:44:00

End Date: 2010.04.13 @ 17:06:00

Job Ticket #: 38311 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil, Inc.

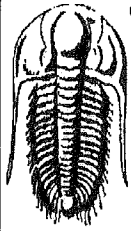
States #2

30 6s 20w Rooks KS

DST # 3

LKC "C - F"

2010.04.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38311

DST#: 3

ATTN: Tony Richardson

Test Start: 2010.04.13 @ 10:44:00

GENERAL INFORMATION:

Formation: **LKC "C - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:21:30

Time Test Ended: 17:06:00

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 46

Interval: **3524.00 ft (KB) To 3588.00 ft (KB) (TVD)**

Reference Elevations: 2286.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

2281.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 398.88 psig @ 3525.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.13

End Date: 2010.04.13

Last Calib.: 2010.04.13

Start Time: 10:44:05

End Time: 17:05:59

Time On Btm: 2010.04.13 @ 12:20:00

Time Off Btm: 2010.04.13 @ 14:54:00

TEST COMMENT:

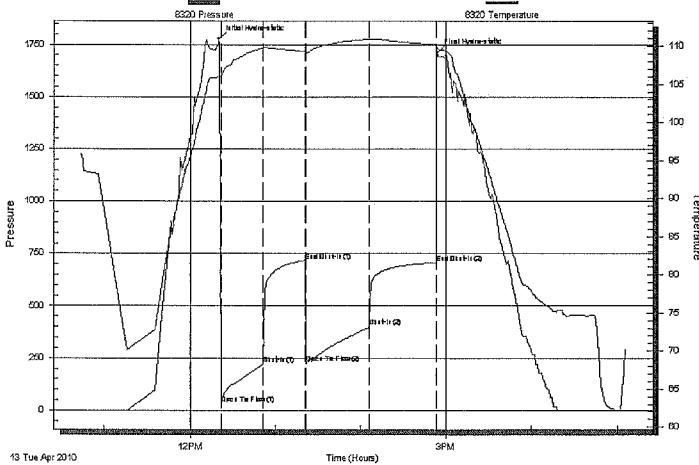
IF: Blow built to BOB (12") in 6 3/4 min.

ISI: Bled off, No blow back

FF: Blow built to BOB in 8 3/4 min.

FSI: Bled off, a few occasional surface bubbles for first 15 min.

Pressure vs. Time



PRESSURE SUMMARY

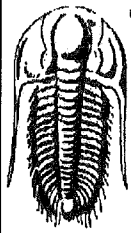
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1776.58	105.98	Initial Hydro-static
2	32.35	106.00	Open To Flow (1)
32	220.89	109.81	Shut-In(1)
61	717.22	109.35	End Shut-In(1)
62	226.76	109.23	Open To Flow (2)
106	398.88	110.88	Shut-In(2)
153	707.35	110.22	End Shut-In(2)
154	1712.33	109.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
505.00	SMCW 93%w, 7%m	5.95
125.00	MCW w/trace oil 74%w, 26%m	1.75
125.00	WCM w/trace oil 72%w, 28%m	1.75
70.00	Watery Mud w/trace oil 51%w, 49%m	0.98
0.00	RW = .077 ohms @ 77.2 deg F	0.00
0.00	Chlorides = 92,000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38311

DST#: 3

ATTN: Tony Richardson

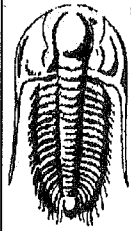
Test Start: 2010.04.13 @ 10:44:00

Tool Information

Drill Pipe:	Length: 3388.00 ft	Diameter: 3.80 inches	Volume: 47.52 bbl	Tool Weight: 3000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 48.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3524.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	3588.00 ft			
Interval between Packers:	64.00 ft			
Tool Length:	310.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3509.00	
HYD S.I. Tool	5.00			3514.00	
Packer	5.00			3519.00	20.00 Bottom Of Top Packer
Packer	5.00			3524.00	
Stubb	1.00			3525.00	
Recorder	0.00	8366	Inside	3525.00	
Recorder	0.00	8320	Inside	3525.00	
Perforations	23.00			3548.00	
Blank Spacing	33.00			3581.00	
Perforations	2.00			3583.00	
Blank Off Sub	1.00			3584.00	
Blank Spacing	4.00			3588.00	64.00 Tool Interval
Packer	0.00			3588.00	
Shale Packer	0.00			3588.00	
Stubb	1.00			3589.00	
Recorder	0.00	8671	Inside	3589.00	
Blank Spacing	222.00			3811.00	
Bullnose	3.00			3814.00	226.00 Bottom Packers & Anchor
Total Tool Length:		310.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38311

DST#: 3

ATTN: Tony Richardson

Test Start: 2010.04.13 @ 10:44:00

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:

92000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 0.03 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
505.00	SMCW 93%w, 7%m.	5.954
125.00	MCW w /trace oil 74%w, 26%m	1.753
125.00	WCM w /trace oil 72%m, 28%w	1.753
70.00	Watery Mud w /trace oil 51%m, 49%w	0.982
0.00	RW = .077 ohms @ 77.2 deg F	0.000
0.00	Chlorides = 92,000 ppm	0.000

Total Length: 825.00 ft

Total Volume: 10.442 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

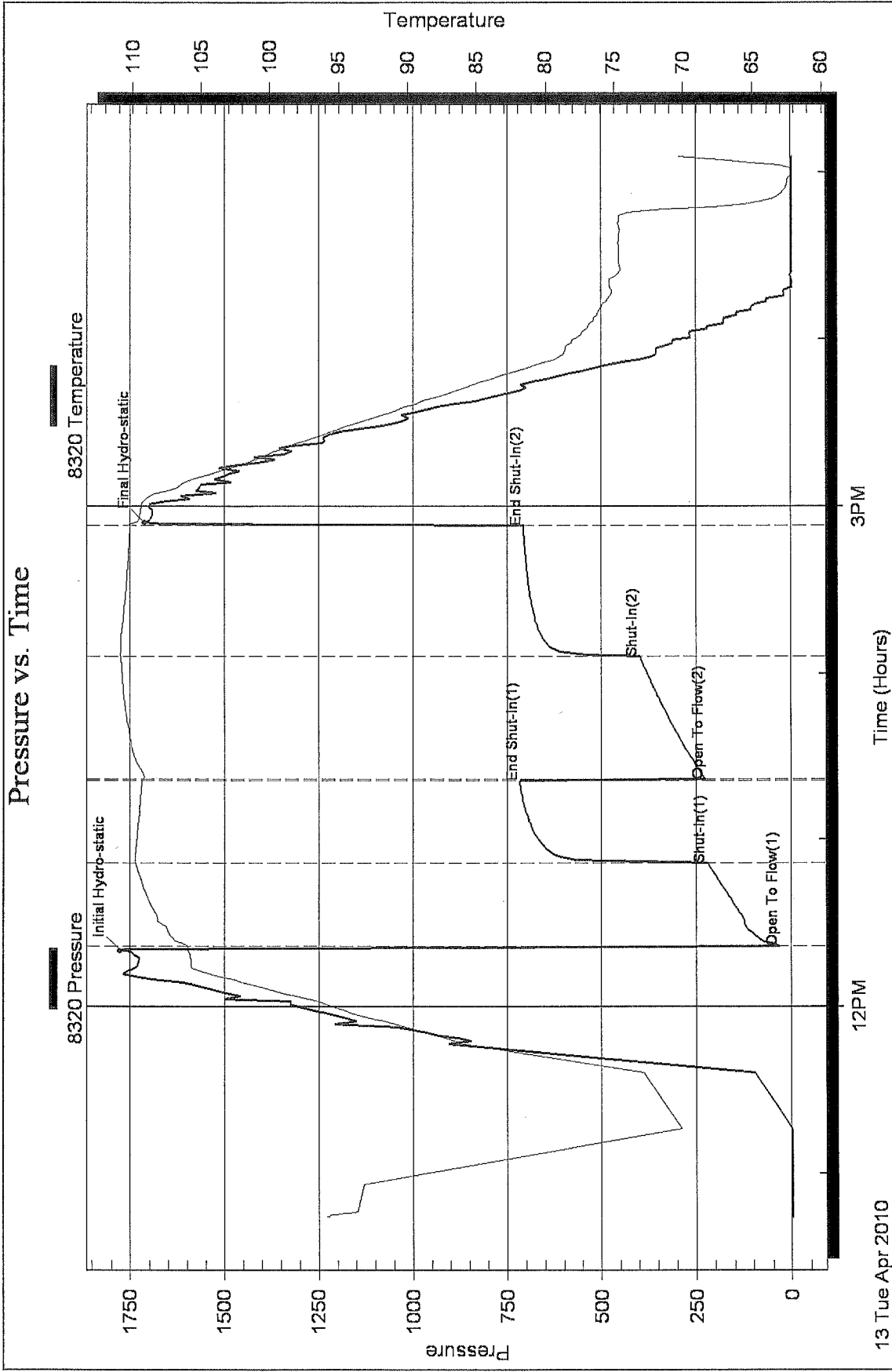
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



13 Tue Apr 2010

12PM

3PM

Time (Hours)

8320 Pressure

8320 Temperature

Initial Hydro-static

Final Hydro-static

Pressure

Temperature

1750

1500

1250

1000

750

500

250

0

110

105

100

95

90

85

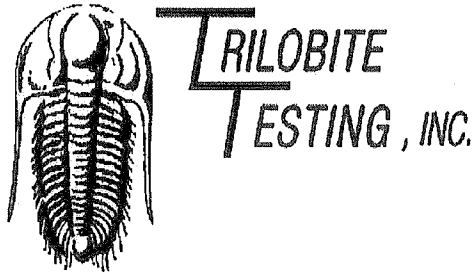
80

75

70

65

60



DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

PO Box 641
Hays, KS 67601

ATTN: Tony Richardson

30 6s 20w Rooks KS

States #2

Start Date: 2010.04.13 @ 22:16:00

End Date: 2010.04.14 @ 03:46:00

Job Ticket #: 38312 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil, Inc.

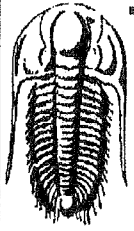
States #2

30 6s 20w Rooks KS

DST # 4

LKC "H - J"

2010.04.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601.

30 6s 20w Rooks KS

Job Ticket: 38312

DST#: 4

ATTN: Tony Richardson

Test Start: 2010.04.13 @ 22:16:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:43:30

Time Test Ended: 03:46:00

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 46

Interval: **3635.00 ft (KB) To 3670.00 ft (KB) (TVD)**

Reference Elevations: 2286.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

2281.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **8366**

Inside

Press@RunDepth: psig @ 3636.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.13 End Date: 2010.04.14

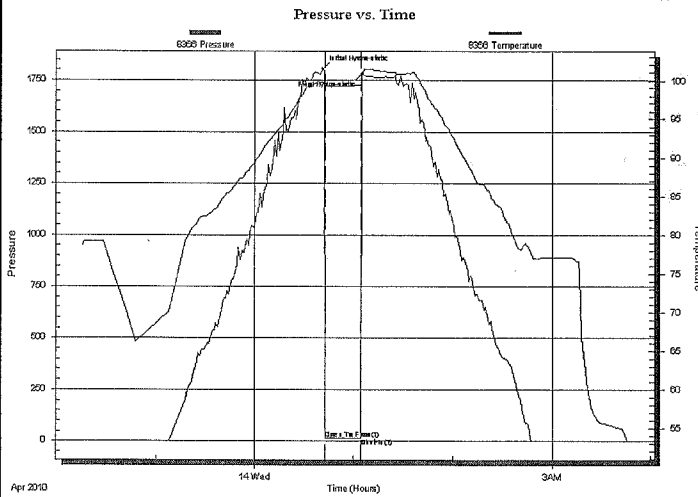
Last Calib.: 2010.04.14

Start Time: 22:16:05 End Time: 03:45:59

Time On Btm: 2010.04.14 @ 00:41:30

Time Off Btm: 2010.04.14 @ 01:05:30

TEST COMMENT: IF: Surface blow, dead @ 16 min.
Pulled tool



PRESSURE SUMMARY

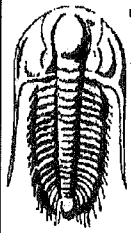
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1802.99	99.79	Initial Hydro-static
2	13.22	99.33	Open To Flow (1)
23	16.71	99.48	Shut-In(1)
24	1783.15	100.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38312

DST#: 4

ATTN: Tony Richardson

Test Start: 2010.04.13 @ 22:16:00

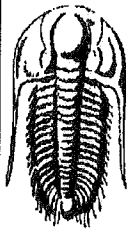
Tool Information

Drill Pipe:	Length: 3515.00 ft	Diameter: 3.80 inches	Volume: 49.31 bbl	Tool Weight: 4000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	49.92 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3635.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	3670.00 ft			
Interval between Packers:	35.00 ft			
Tool Length:	199.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			3620.00		
HYD S.I. Tool	5.00			3625.00		
Packer	5.00			3630.00	20.00	Bottom Of Top Packer
Packer	5.00			3635.00		
Stubb	1.00			3636.00		
Recorder	0.00	8366	Inside	3636.00		
Recorder	0.00	8320	Inside	3636.00		
Perforations	29.00			3665.00		
Blank Off Sub	1.00			3666.00		
Blank Spacing	4.00			3670.00	35.00	Tool Interval
Packer	0.00			3670.00		
Shale Packer	0.00			3670.00		
Stubb	1.00			3671.00		
Blank Spacing	127.00			3798.00		
Recorder	0.00	8671	Inside	3798.00		
Perforations	13.00			3811.00		
Bullnose	3.00			3814.00	144.00	Bottom Packers & Anchor
Total Tool Length:	199.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38312

DST#: 4

ATTN: Tony Richardson

Test Start: 2010.04.13 @ 22:16:00

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:

bbf

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 0.03 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1.00	Mud 100%	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

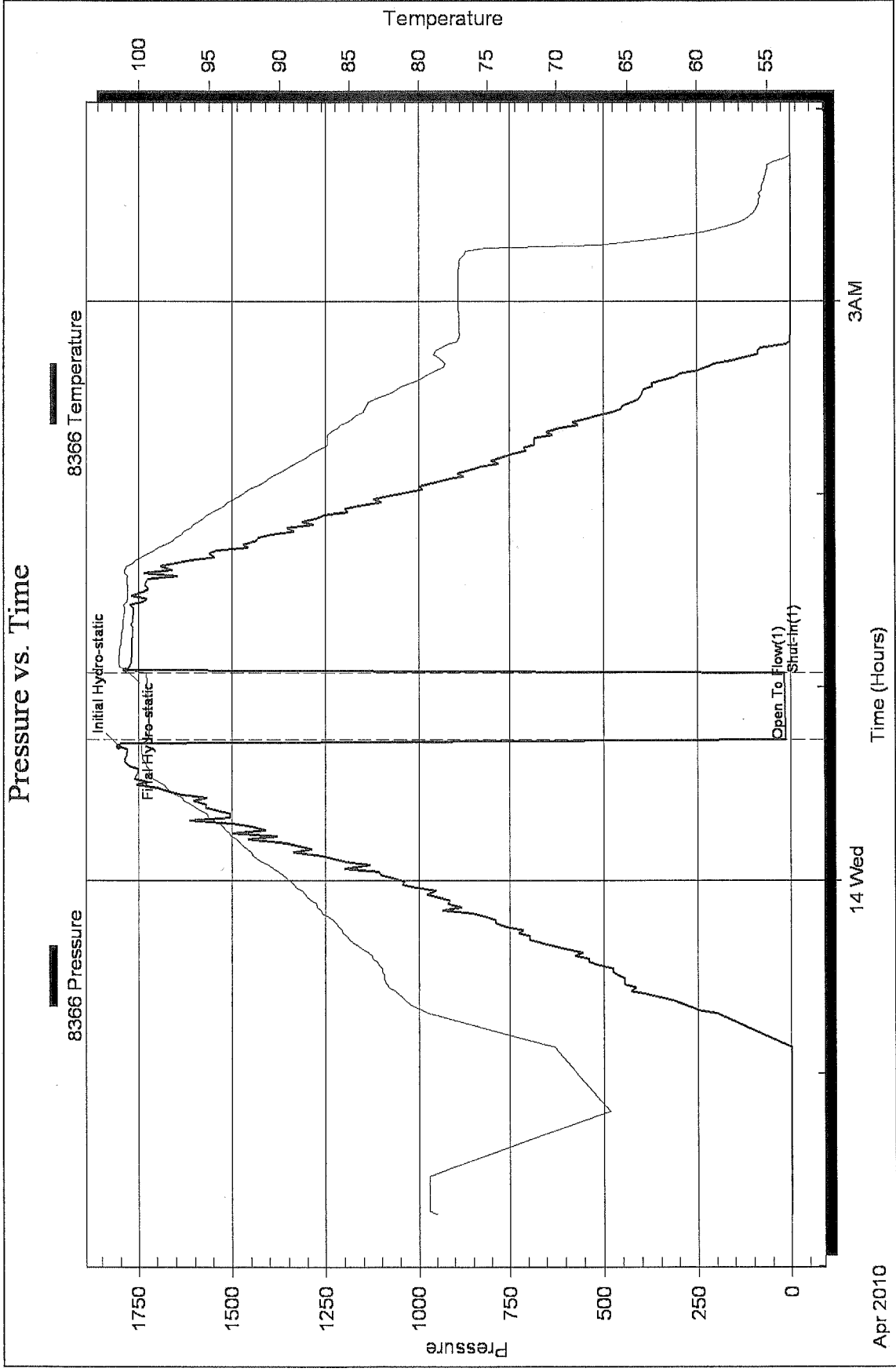
Inside

Black Diamond Oil, Inc.

30 6s 20w Rooks KS

DST Test Number: 4

Pressure vs. Time



Serial #: 8671

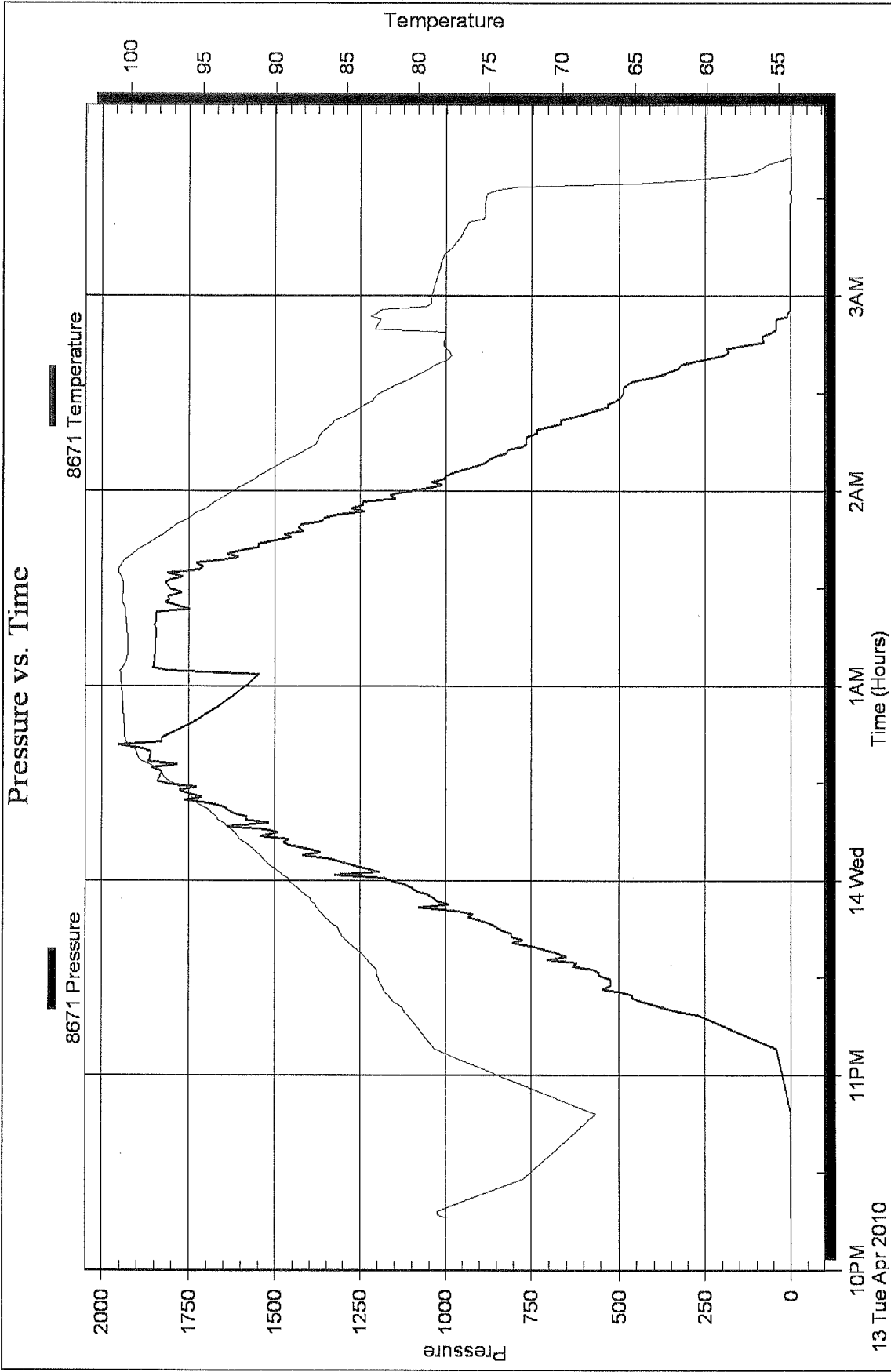
Inside

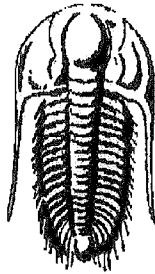
Black Diamond Oil, Inc.

30 6s 20w Rocks KS

DST Test Number: 4

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

PO Box 641
Hays, KS 67601

ATTN: Tony Richardson

30 6s 20w Rooks KS

States #2

Start Date: 2010.04.14 @ 04:20:00

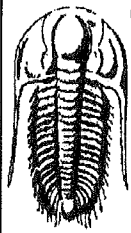
End Date: 2010.04.14 @ 10:10:30

Job Ticket #: 38313 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38313

DST#: 5

ATTN: Tony Richardson

Test Start: 2010.04.14 @ 04:20:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:38:30

Time Test Ended: 10:10:30

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 46

Interval: **3436.00 ft (KB) To 3450.00 ft (KB) (TVD)**

Reference Elevations: 2286.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

2281.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **8366**

Inside

Press@RunDepth: 357.53 psig @ 3437.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.14 End Date: 2010.04.14

Last Calib.: 2010.04.14

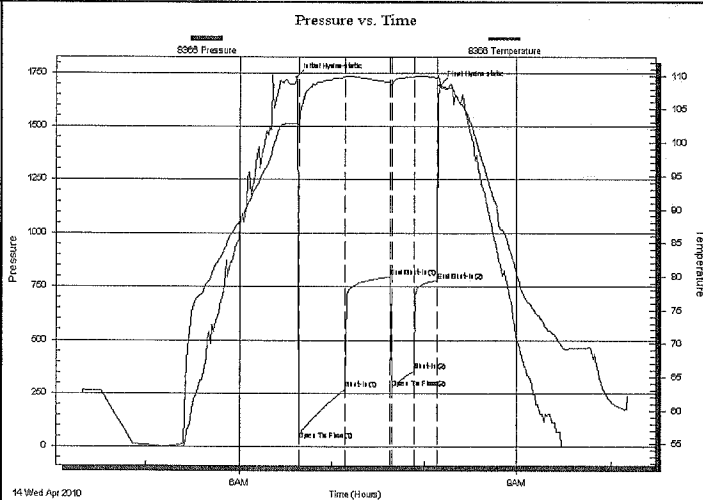
Start Time: 04:20:05 End Time: 10:10:29

Time On Btm: 2010.04.14 @ 06:37:00

Time Off Btm: 2010.04.14 @ 08:09:30

TEST COMMENT: IF: Blow built to BOB in 5 1/4 min.
ISI: Bled off, No blow back
FF: Blow built to BOB in 7 min.
FSI: Bled off, No blow back

PRESSURE SUMMARY



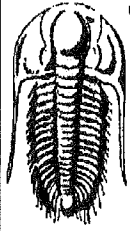
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.68	102.95	Initial Hydro-static
2	33.51	102.67	Open To Flow (1)
32	270.97	109.79	Shut-In(1)
61	795.98	109.03	End Shut-In(1)
62	275.46	108.58	Open To Flow (2)
76	357.53	109.77	Shut-In(2)
91	779.99	109.67	End Shut-In(2)
93	1692.71	108.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
691.00	SMCW 96%w, 4%m	8.56
36.00	MCW 63%w, 37%m	0.50
0.00	RW = .087 ohms @ 56.5 deg F	0.00
0.00	Chlorides = 123,000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38313

DST#: 5

ATTN: Tony Richardson

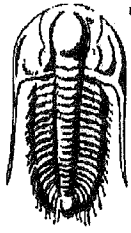
Test Start: 2010.04.14 @ 04:20:00

Tool Information

Drill Pipe:	Length: 3326.00 ft	Diameter: 3.80 inches	Volume: 46.66 bbl	Tool Weight: 6000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 47.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3436.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	3450.00 ft			
Interval between Packers:	14.00 ft			
Tool Length:	398.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			3421.00		
HYD S.I. Tool	5.00			3426.00		
Packer	5.00			3431.00	20.00	Bottom Of Top Packer
Packer	5.00			3436.00		
Stubb	1.00			3437.00		
Recorder	0.00	8366	Inside	3437.00		
Recorder	0.00	8320	Inside	3437.00		
Perforations	8.00			3445.00		
Blank Off Sub	1.00			3446.00		
Blank Spacing	4.00			3450.00	14.00	Tool Interval
Packer	0.00			3450.00		
Shale Packer	0.00			3450.00		
Stubb	1.00			3451.00		
Blank Spacing	349.00			3800.00		
Recorder	0.00	8671	Inside	3800.00		
Perforations	11.00			3811.00		
Bullnose	3.00			3814.00	364.00	Bottom Packers & Anchor
Total Tool Length:	398.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38313

DST#: 5

ATTN: Tony Richardson

Test Start: 2010.04.14 @ 04:20:00

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:	123000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 0.03 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
691.00	SMCW 96%w, 4%m	8.563
36.00	MCW 63%w, 37%m	0.505
0.00	RW = .087 ohms @ 56.5 deg F	0.000
0.00	Chlorides = 123,000 ppm	0.000

Total Length: 727.00 ft Total Volume: 9.068 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

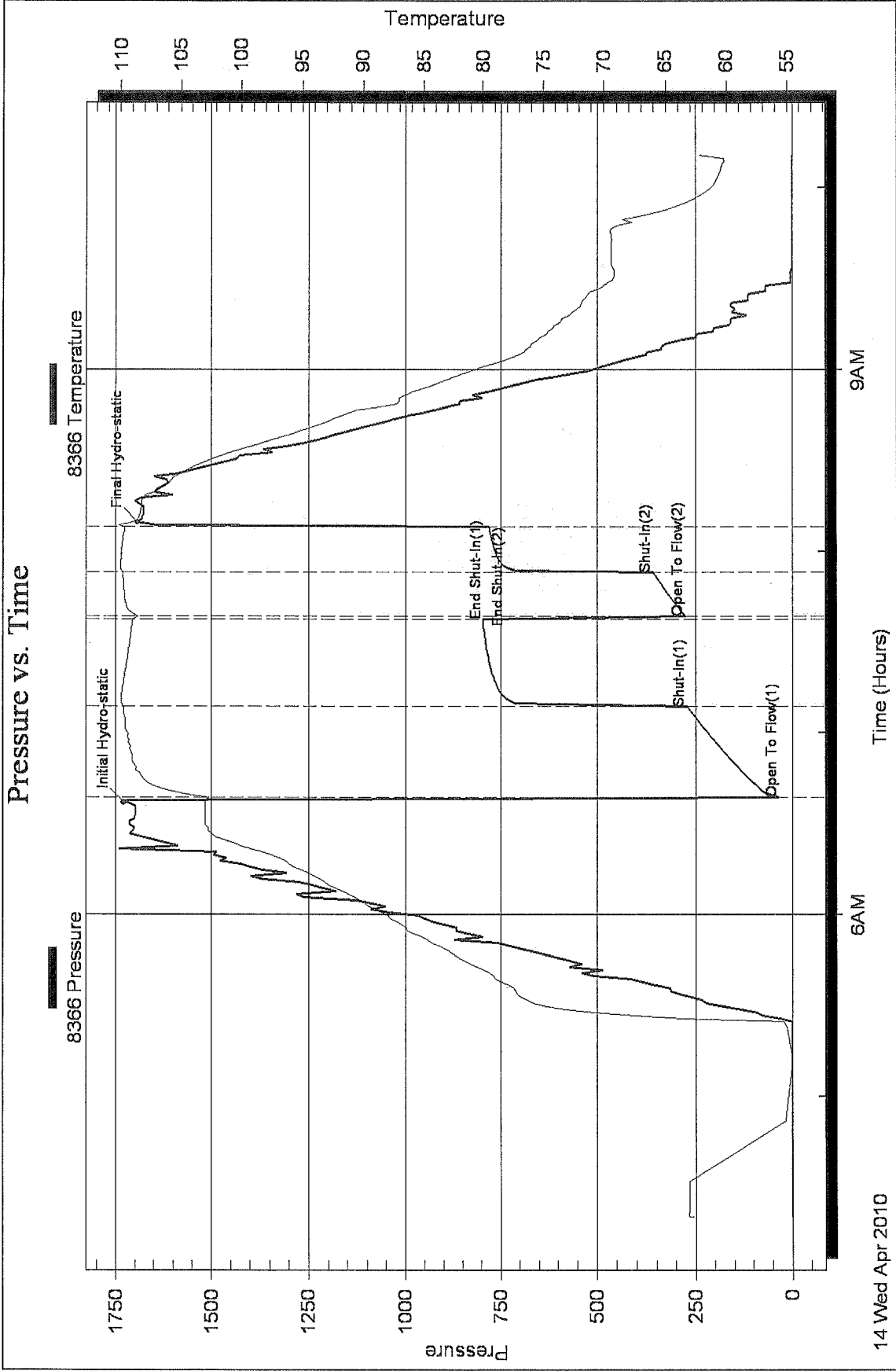
Inside

Black Diamond Oil, Inc.

30 6s 20w Rooks KS

DST Test Number: 5

Pressure vs. Time



14 Wed Apr 2010

6AM

Time (Hours)

9AM

Serial #: 8671

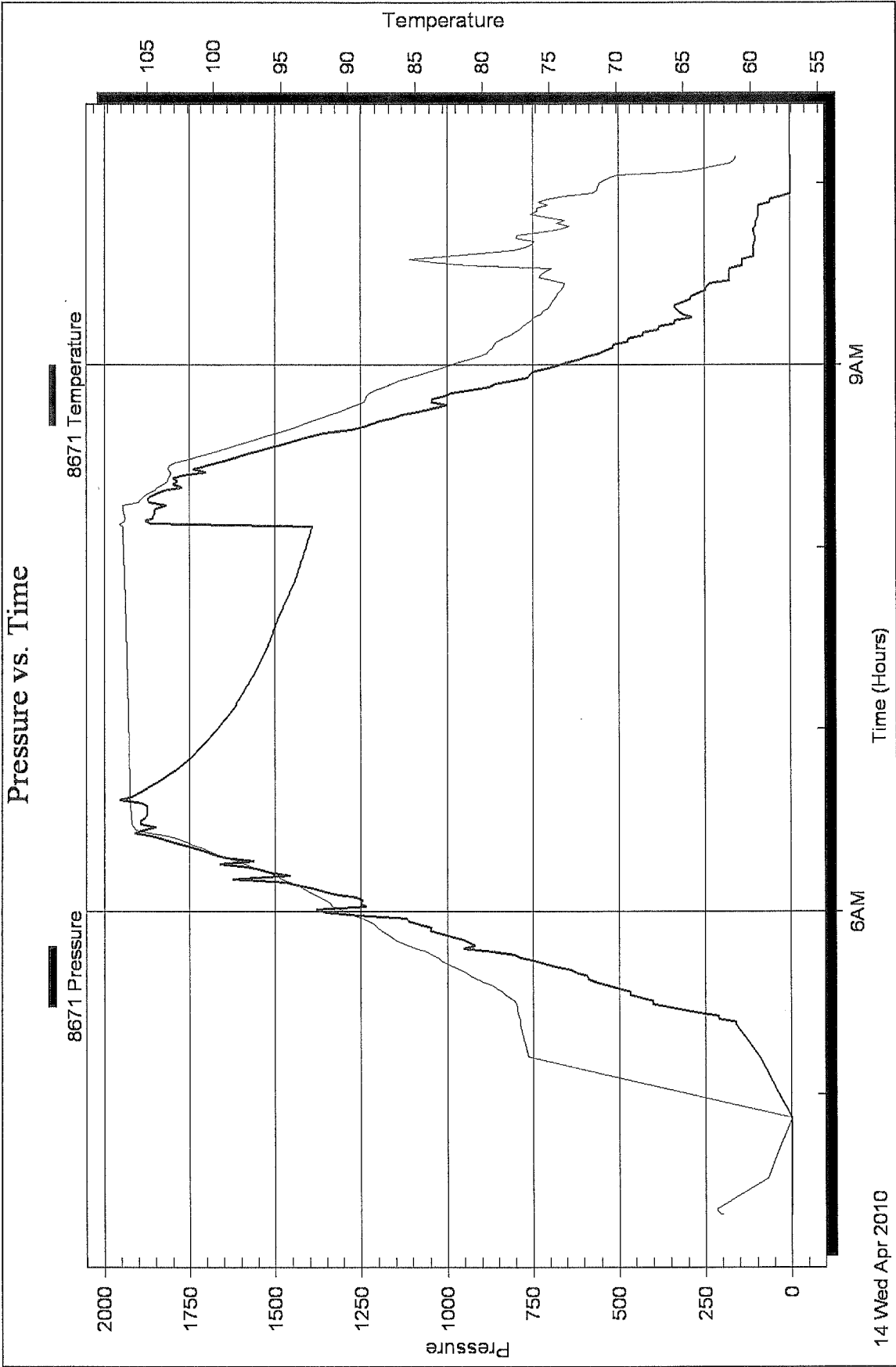
Inside

Black Diamond Oil, Inc.

30 6s 20w Rooks KS

DST Test Number: 5

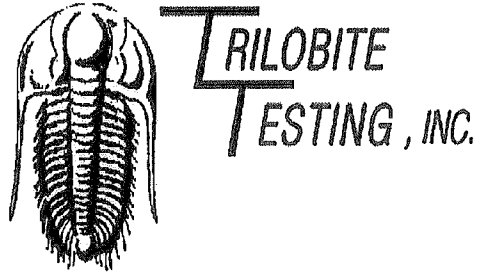
Pressure vs. Time



14 Wed Apr 2010

6AM

9AM



DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil, Inc.**

PO Box 641
Hays, KS 67601

ATTN: Tony Richardson

30 6s 20w Rooks KS

States #2

Start Date: 2010.04.14 @ 10:52:00

End Date: 2010.04.14 @ 16:09:00

Job Ticket #: 38314 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil, Inc.

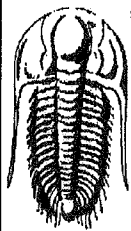
States #2

30 6s 20w Rooks KS

DST # 6

Lower Arbuckle

2010.04.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38314

DST#: 6

ATTN: Tony Richardson

Test Start: 2010.04.14 @ 10:52:00

GENERAL INFORMATION:

Formation: **Lower Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:18:30

Time Test Ended: 16:09:00

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 46

Interval: 3760.00 ft (KB) To 3794.00 ft (KB) (TVD)

Reference Elevations: 2286.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

2281.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 200.80 psig @ 3761.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.14

End Date:

2010.04.14

Last Calib.: 2010.04.14

Start Time: 10:52:05

End Time:

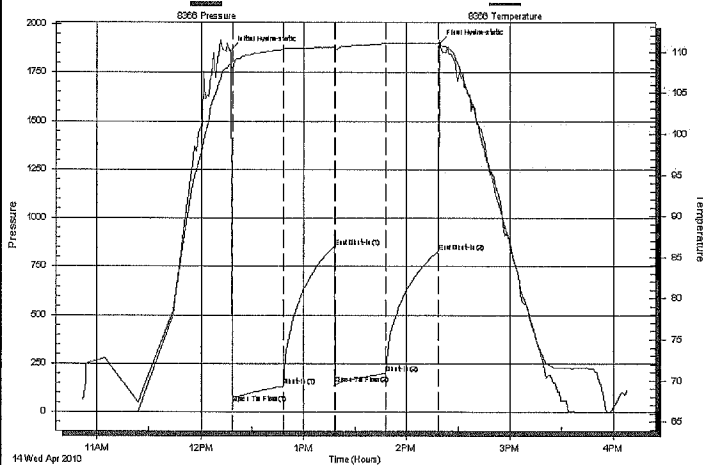
16:08:59

Time On Btm: 2010.04.14 @ 12:17:30

Time Off Btm: 2010.04.14 @ 14:19:00

TEST COMMENT: IF: Blow built to BOB in 10 1/2 min.
ISI: Bled off, No blow back
FF: Blow built to BOB in 19 3/4 min.
FSI: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

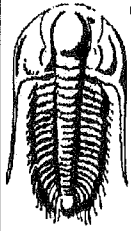
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1863.16	108.50	Initial Hydro-static
1	49.10	108.00	Open To Flow (1)
31	135.31	110.33	Shut-In(1)
61	854.31	110.55	End Shut-In(1)
61	144.93	110.27	Open To Flow (2)
91	200.80	111.00	Shut-In(2)
121	829.49	111.09	End Shut-In(2)
122	1898.95	111.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SO/WCM 87% <i>m</i> , 10% <i>w</i> , 3% <i>o</i>	0.15
283.00	MCW w/trace oil 86% <i>w</i> , 14% <i>m</i>	3.11
90.00	SO/MV 50% <i>w</i> , 47% <i>m</i> , 3% <i>o</i>	1.26
5.00	SMVCO 90% <i>o</i> , 5% <i>w</i> , 5% <i>m</i>	0.07
0.00	Gravity = 25.2 api	0.00
0.00	Chlorides = 62,000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38314

DST#: 6

ATTN: Tony Richardson

Test Start: 2010.04.14 @ 10:52:00

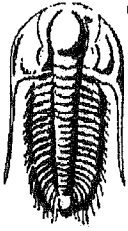
Tool Information

Drill Pipe:	Length: 3641.00 ft	Diameter: 3.80 inches	Volume: 51.07 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 74000.00 lb
			Total Volume: 51.68 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3760.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3794.00 ft			
Interval between Packers:	34.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

S.I. Tool	5.00			3745.00	
HYD S.I. Tool	5.00			3750.00	
Packer	5.00			3755.00	20.00 Bottom Of Top Packer
Packer	5.00			3760.00	
Stubb	1.00			3761.00	
Recorder	0.00	8366	Inside	3761.00	
Recorder	0.00	8320	Inside	3761.00	
Perforations	28.00			3789.00	
Blank Off Sub	1.00			3790.00	
Blank Spacing	4.00			3794.00	34.00 Tool Interval
Packer	0.00			3794.00	
Shale Packer	0.00			3794.00	
Stubb	1.00			3795.00	
Recorder	0.00	8671	Inside	3795.00	
Perforations	16.00			3811.00	
Bullnose	3.00			3814.00	20.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil, Inc.

States #2

PO Box 641
Hays, KS 67601

30 6s 20w Rooks KS

Job Ticket: 38314

DST#: 6

ATTN: Tony Richardson

Test Start: 2010.04.14 @ 10:52:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 25.2 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 62000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.95 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 0.03 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SO/WCM 87% <i>m</i> , 10% <i>w</i> , 3% <i>o</i>	0.148
283.00	MCW w /trace oil 86% <i>w</i> , 14% <i>m</i>	3.113
90.00	SO/MV 50% <i>w</i> , 47% <i>m</i> , 3% <i>o</i>	1.262
5.00	SMMCO 90% <i>o</i> , 5% <i>w</i> , 5% <i>m</i>	0.070
0.00	Gravity = 25.2 api	0.000
0.00	Chlorides = 62,000 ppm	0.000

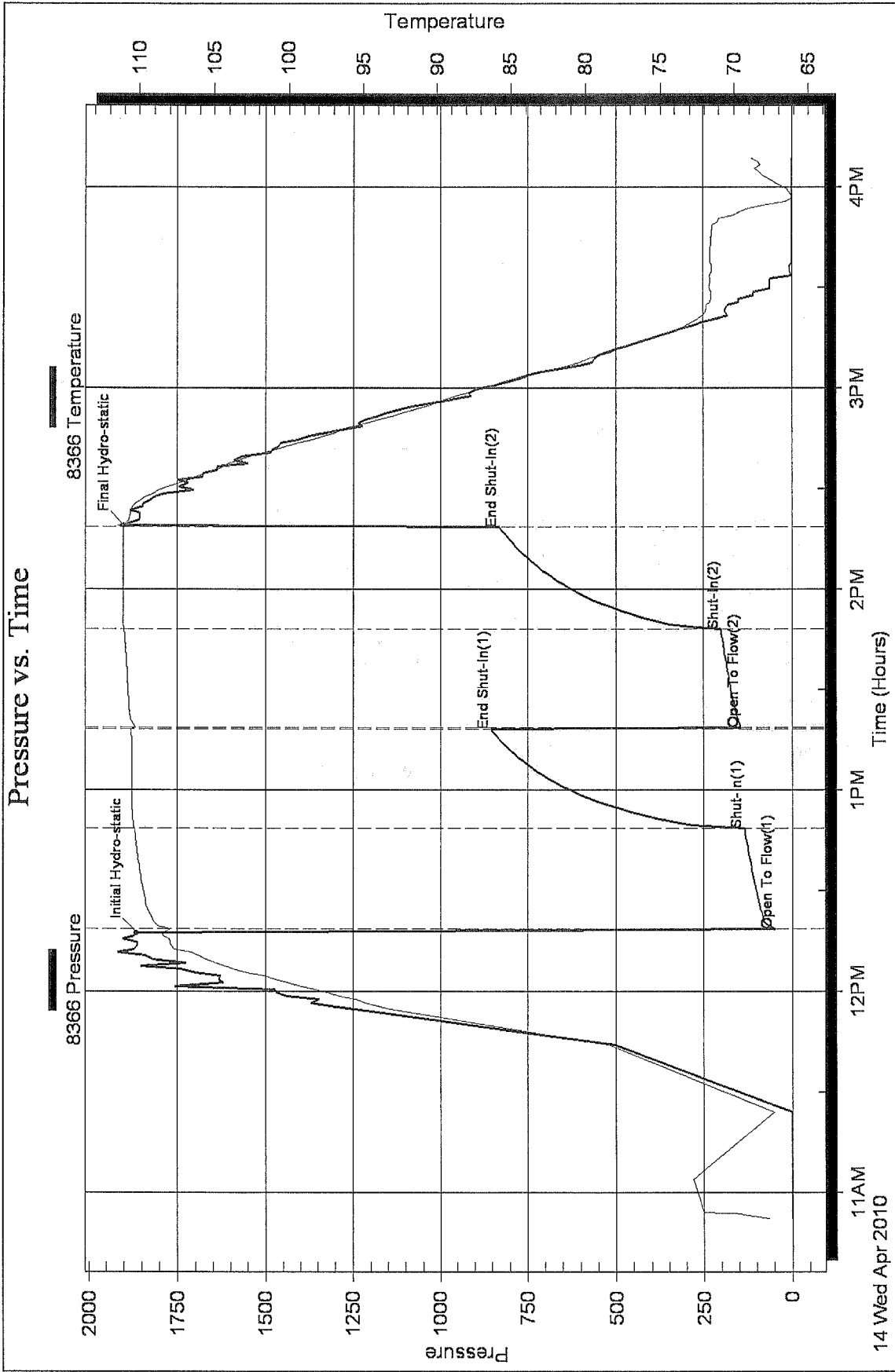
Total Length: 408.00 ft Total Volume: 4.593 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 26.4 api @ 72 deg F = 25.2 api corrected
RW = .123 ohms @ 70.8 deg F = 62,000 ppm Chlorides

Pressure vs. Time



Serial #: 8671

Inside

Black Diamond Oil, Inc.

30 6s 20w Rocks KS

DST Test Number: 6

Pressure vs. Time

