

**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays KS 67601

ATTN: Kenny Vehige

**23 4S 22W Norton KS**

**Griffin A #1-23**

Start Date: 2007.04.15 @ 19:25:12

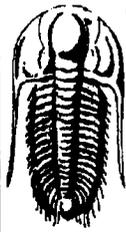
End Date: 2007.04.16 @ 02:23:42

Job Ticket #: 27650                      DST #: 1

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

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

ATTN: Kenny Vehige

Job Ticket: 27650

DST#: 1

Test Start: 2007.04.15 @ 19:25:12

## GENERAL INFORMATION:

Formation: "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:20:57

Time Test Ended: 02:23:42

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3460.00 ft (KB) To 3485.00 ft (KB) (TVD)

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3485.00 ft (KB) (TVD)

2250.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 6719**

**Inside**

Press@RunDepth: 130.51 psig @ 3462.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.04.15

End Date:

2007.04.16

Last Calib.: 2007.04.16

Start Time: 19:25:14

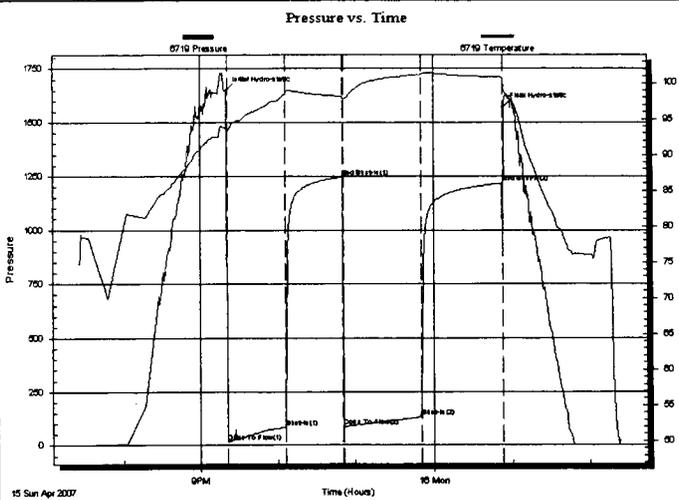
End Time:

02:23:42

Time On Btm: 2007.04.15 @ 21:20:42

Time Off Btm: 2007.04.16 @ 00:53:12

TEST COMMENT: IFP Fair Blow Built to 8 "  
ISI Dead  
FFP Fair Blow Built to 9 "  
FSI Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.00	93.72	Initial Hydro-static
1	15.98	93.37	Open To Flow (1)
46	83.28	98.61	Shut-In(1)
91	1245.77	98.18	End Shut-In(1)
91	86.95	97.65	Open To Flow (2)
150	130.51	101.20	Shut-In(2)
212	1215.90	100.80	End Shut-In(2)
213	1571.14	100.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	Salt Water	2.42

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 27650

**DST#: 1**

ATTN: Kenny Vehige

Test Start: 2007.04.15 @ 19:25:12

**Tool Information**

Drill Pipe:	Length: 3324.00 ft	Diameter: 3.80 inches	Volume: 46.63 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 47.22 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3460.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 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			3440.00	
Shut In Tool	5.00			3445.00	
Hydraulic tool	5.00			3450.00	
Packer	5.00			3455.00	21.00 Bottom Of Top Packer
Packer	5.00			3460.00	
Stubb	1.00			3461.00	
Perforations	1.00			3462.00	
Recorder	0.00	6719	Inside	3462.00	
Perforations	20.00			3482.00	
Recorder	0.00	13221	Outside	3482.00	
Bullnose	3.00			3485.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



**TRILOBITE**  
TESTING, INC

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 27650

**DST#: 1**

ATTN: Kenny Vehige

Test Start: 2007.04.15 @ 19:25:12

**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:	25000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
250.00	Salt Water	2.423

Total Length: 250.00 ft      Total Volume: 2.423 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

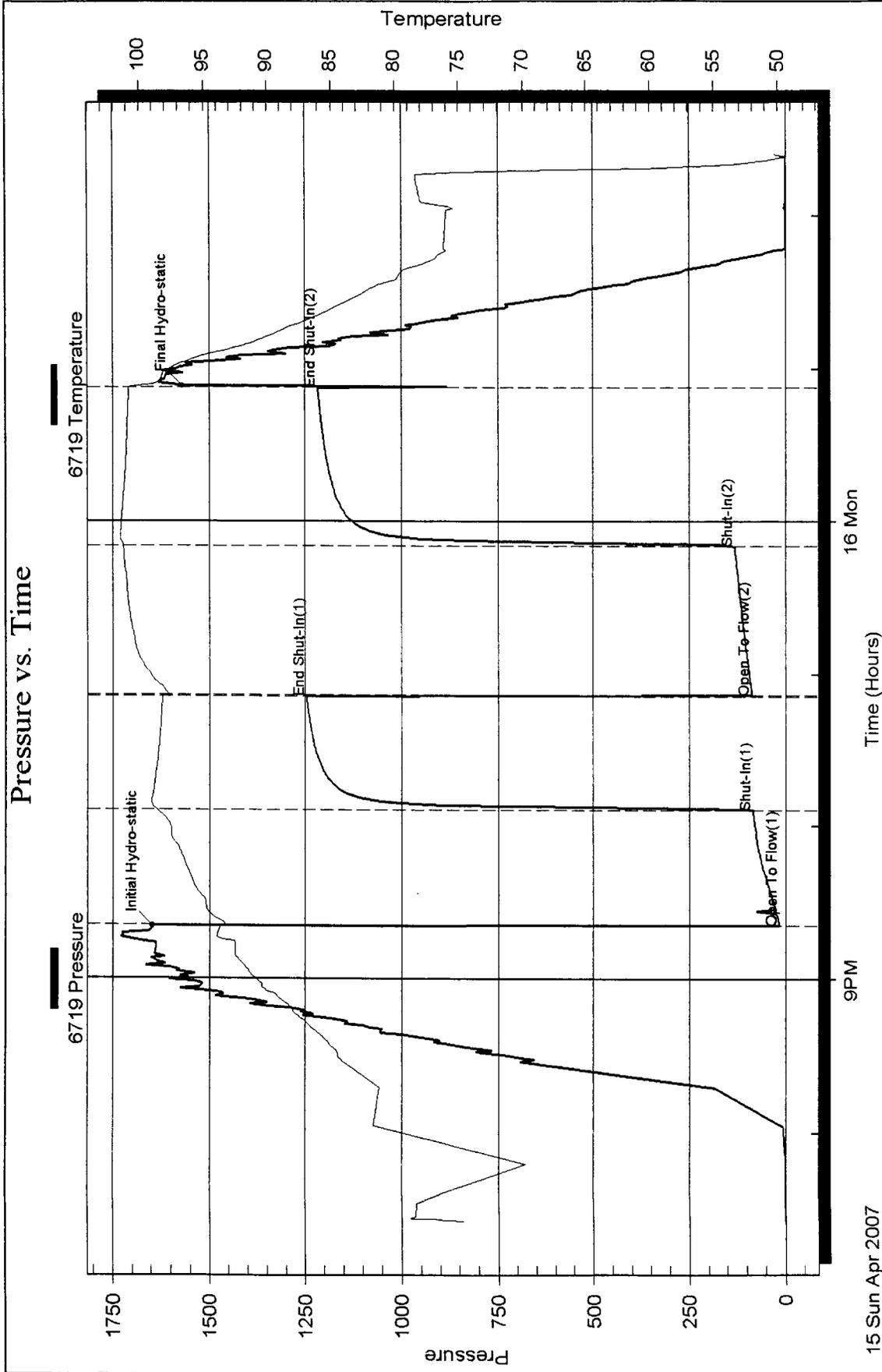
Serial #: 6719

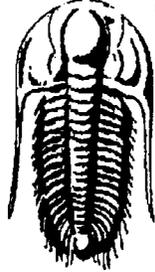
Inside

Black Diamond Oil Inc

23 4S 22W Norton KS

DST Test Number: 1





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays KS 67601

ATTN: Kenny Vehige

**23 4S 22W Norton KS**

**Griffin A #1-23**

Start Date: 2007.04.16 @ 02:39:20

End Date: 2007.04.16 @ 09:05:05

Job Ticket #: 28276                      DST #: 2

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

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

ATTN: Kenny Vehige

Job Ticket: 28276

**DST#: 2**

Test Start: 2007.04.16 @ 02:39:20

## GENERAL INFORMATION:

Formation: **Toronto-"A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:13:35

Time Test Ended: 09:05:05

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3426.00 ft (KB) To 3485.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3485.00 ft (KB) (TVD)

2250.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 6719**

**Inside**

Press@RunDepth: 230.38 psig @ 3432.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.04.16

End Date:

2007.04.16

Last Calib.: 2007.04.16

Start Time: 02:39:22

End Time:

09:05:05

Time On Btm: 2007.04.16 @ 04:13:05

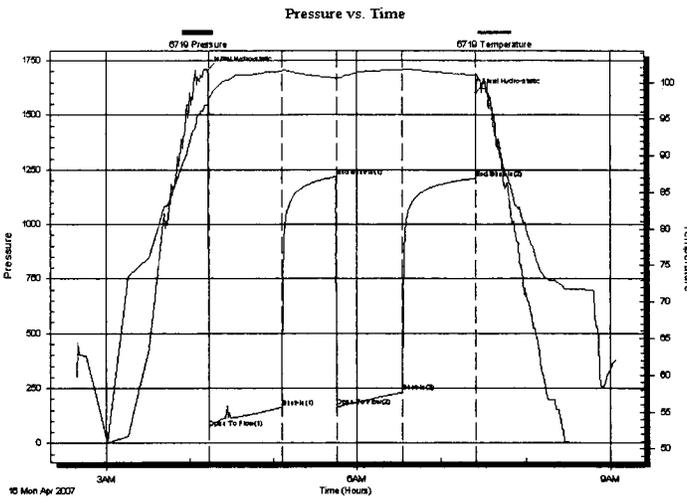
Time Off Btm: 2007.04.16 @ 07:24:50

TEST COMMENT: IFF Good Blow BOB in 25 Mn.

ISI Dead

FFP Weak Blow Built to 3-1/2 "

FSI Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.65	96.84	Initial Hydro-static
1	69.56	97.39	Open To Flow (1)
53	161.83	101.49	Shut-In(1)
93	1216.45	100.62	End Shut-In(1)
93	166.35	100.35	Open To Flow (2)
140	230.38	101.69	Shut-In(2)
192	1210.41	100.99	End Shut-In(2)
192	1602.54	101.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
380.00	Muddy Water 70%W 30%M	4.25
10.00	Watery Mud w/Oil Specks 40%W 60%M	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28276

**DST#: 2**

ATTN: Kenny Vehige

Test Start: 2007.04.16 @ 02:39:20

**Tool Information**

Drill Pipe:	Length: 3294.00 ft	Diameter: 3.80 inches	Volume: 46.21 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 2200.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.80 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3426.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	80.00 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			3406.00	
Shut In Tool	5.00			3411.00	
Hydraulic tool	5.00			3416.00	
Packer	5.00			3421.00	21.00 Bottom Of Top Packer
Packer	5.00			3426.00	
Stubb	1.00			3427.00	
Perforations	5.00			3432.00	
Recorder	0.00	6719	Inside	3432.00	
Blank Spacing	30.00			3462.00	
Perforations	20.00			3482.00	
Recorder	0.00	13221	Outside	3482.00	
Bullnose	3.00			3485.00	59.00 Bottom Packers & Anchor

**Total Tool Length: 80.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28276

**DST#: 2**

ATTN: Kenny Vehige

Test Start: 2007.04.16 @ 02:39:20

## 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:

39000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	Muddy Water 70%W 30%M	4.246
10.00	Watery Mud w/Oil Specks 40%W 60%M	0.140

Total Length: 390.00 ft      Total Volume: 4.386 bbl

Num Fluid Samples: 0

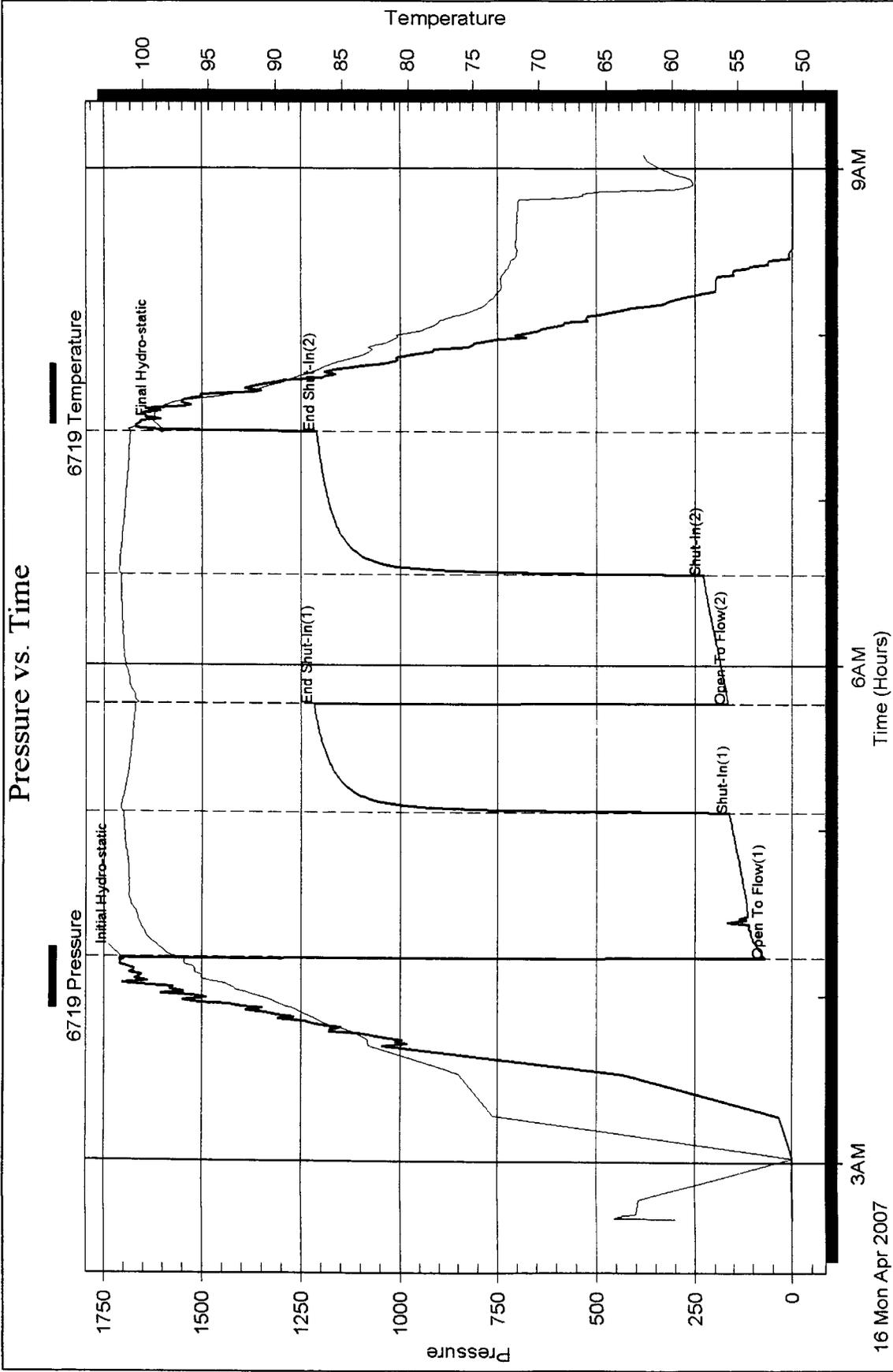
Num Gas Bombs: 0

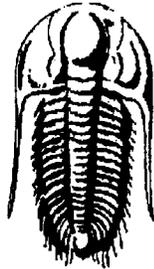
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
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## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays KS 67601

ATTN: Kenny Vehige

**23 4S 22W Norton KS**

**Griffin A #1-23**

Start Date: 2007.04.16 @ 15:12:49

End Date: 2007.04.16 @ 21:59:04

Job Ticket #: 28277                      DST #: 3

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



**TRILOBITE  
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# DRILL STEM TEST REPORT

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

ATTN: Kenny Vehige

Job Ticket: 28277

**DST#: 3**

Test Start: 2007.04.16 @ 15:12:49

## GENERAL INFORMATION:

Formation: "C-D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:43:49

Time Test Ended: 21:59:04

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3485.00 ft (KB) To 3530.00 ft (KB) (TVD)

Total Depth: 3530.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2255.00 ft (KB)

2250.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6719**

**Inside**

Press@RunDepth: 67.36 psig @ 3492.00 ft (KB)

Start Date: 2007.04.16

End Date: 2007.04.16

Start Time: 15:12:51

End Time: 21:59:04

Capacity: 7000.00 psig

Last Calib.: 2007.04.16

Time On Btm: 2007.04.16 @ 16:43:19

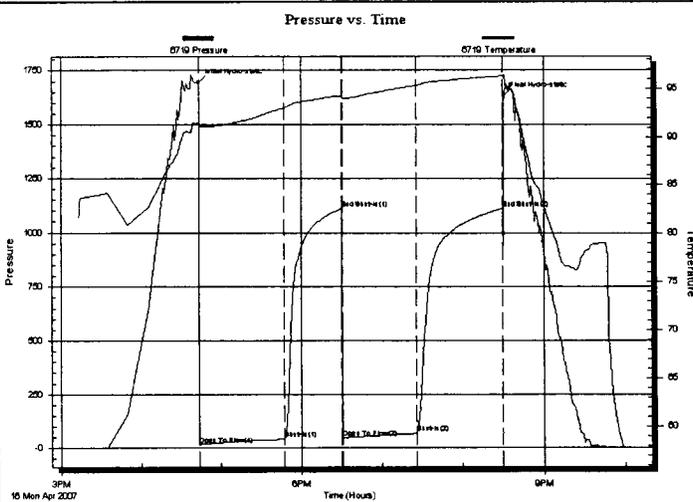
Time Off Btm: 2007.04.16 @ 20:30:19

TEST COMMENT: IFP Weak Blow Built to 3 "

ISI Dead

FFP Weak Blow Built to 1-1/2 "

FSI Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.06	91.31	Initial Hydro-static
1	16.34	91.07	Open To Flow (1)
64	41.85	92.96	Shut-In (1)
107	1110.76	94.21	End Shut-In (1)
108	46.72	93.98	Open To Flow (2)
162	67.36	95.25	Shut-In (2)
227	1110.87	96.23	End Shut-In (2)
227	1631.37	96.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	Mud Oil Specks in top Trace Water	0.57

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28277

**DST#: 3**

ATTN: Kenny Vehige

Test Start: 2007.04.16 @ 15:12:49

### Tool Information

Drill Pipe:	Length: 3356.00 ft	Diameter: 3.80 inches	Volume: 47.08 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 47.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3485.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	66.00 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			3465.00	
Shut In Tool	5.00			3470.00	
Hydraulic tool	5.00			3475.00	
Packer	5.00			3480.00	21.00 Bottom Of Top Packer
Packer	5.00			3485.00	
Stubb	1.00			3486.00	
Perforations	6.00			3492.00	
Recorder	0.00	6719	Inside	3492.00	
Blank Spacing	30.00			3522.00	
Perforations	5.00			3527.00	
Recorder	0.00	13221	Outside	3527.00	
Bullnose	3.00			3530.00	45.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>66.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28277

**DST#: 3**

ATTN: Kenny Vehige

Test Start: 2007.04.16 @ 15:12:49

**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: 8.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
115.00	Mud Oil Specks in top Trace Water	0.566

Total Length: 115.00 ft      Total Volume: 0.566 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6719

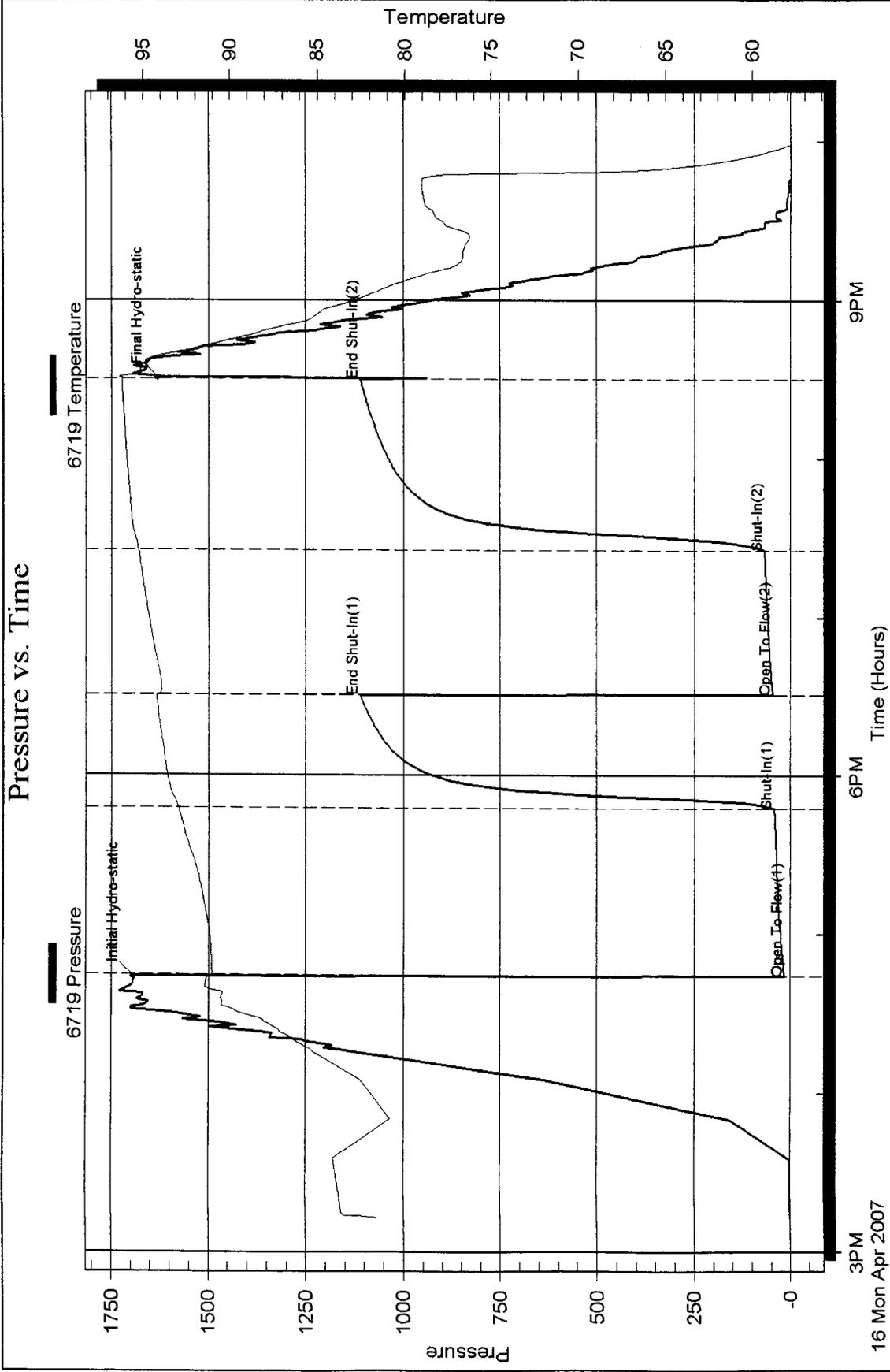
Inside

Black Diamond Oil Inc

23 4S 22W Norton KS

DST Test Number: 3

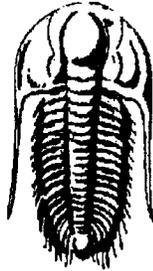
### Pressure vs. Time



3PM  
16 Mon Apr 2007

6PM  
Time (Hours)

9PM



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays KS 67601

ATTN: Kenny Vehige

**23 4S 22W Norton KS**

**Griffin A #1-23**

Start Date: 2007.04.17 @ 07:30:40

End Date: 2007.04.17 @ 13:35:40

Job Ticket #: 28278                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
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# DRILL STEM TEST REPORT

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

ATTN: Kenny Vehige

Job Ticket: 28278

**DST#: 4**

Test Start: 2007.04.17 @ 07:30:40

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:09:10

Time Test Ended: 13:35:40

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3564.00 ft (KB) To 3644.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3644.00 ft (KB) (TVD)

2250.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 6719**

**Inside**

Press@RunDepth: 104.33 psig @ 3570.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.04.17

End Date:

2007.04.17

Last Calib.: 2007.04.17

Start Time: 07:30:42

End Time:

13:35:40

Time On Btm: 2007.04.17 @ 09:08:55

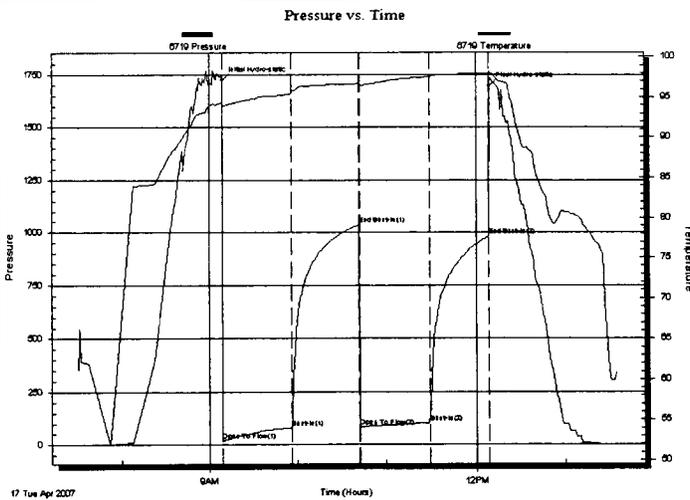
Time Off Btm: 2007.04.17 @ 12:09:10

TEST COMMENT: IFP Fair Blow Built to 8 "

ISI Dead

FFP Weak Blow Built to 4 "

FSI Dead



## PRESSURE SUMMARY

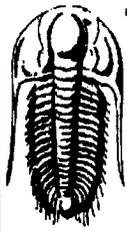
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1722.48	94.22	Initial Hydro-static
1	18.13	93.94	Open To Flow (1)
48	80.04	95.55	Shut-In(1)
93	1038.02	96.63	End Shut-In(1)
94	82.39	96.23	Open To Flow (2)
141	104.33	97.51	Shut-In(2)
180	981.83	97.90	End Shut-In(2)
181	1695.17	98.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	Watery M w/Oil Specks	0.60
70.00	Mud w/Oil Specks	0.98

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28278      **DST#: 4**

ATTN: Kenny Vehige

Test Start: 2007.04.17 @ 07:30:40

**Tool Information**

Drill Pipe:	Length: 3447.00 ft	Diameter: 3.80 inches	Volume: 48.35 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3564.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	101.00 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			3544.00	
Shut In Tool	5.00			3549.00	
Hydraulic tool	5.00			3554.00	
Packer	5.00			3559.00	21.00      Bottom Of Top Packer
Packer	5.00			3564.00	
Stubb	1.00			3565.00	
Perforations	5.00			3570.00	
Recorder	0.00	6719	Inside	3570.00	
Blank Spacing	60.00			3630.00	
Change Over Sub	1.00			3631.00	
Perforations	10.00			3641.00	
Recorder	0.00	13221	Outside	3641.00	
Bullnose	3.00			3644.00	80.00      Bottom Packers & Anchor

**Total Tool Length: 101.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28278

**DST#: 4**

ATTN: Kenny Vehige

Test Start: 2007.04.17 @ 07:30:40

## 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:	16500 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WateryM w/Oil Specks	0.599
70.00	Mud w/Oil Specks	0.982

Total Length: 190.00 ft      Total Volume: 1.581 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6719

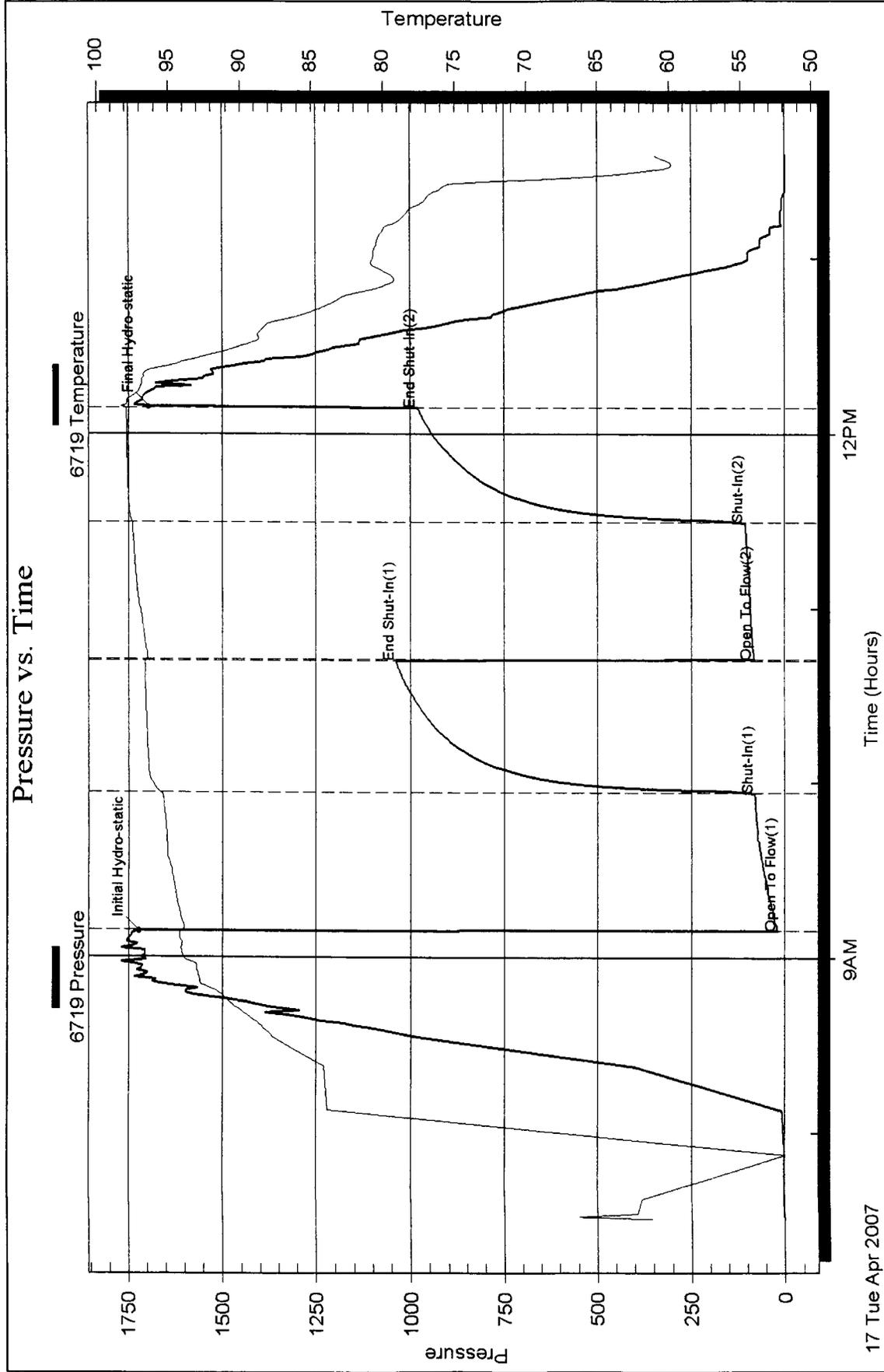
Inside

Black Diamond Oil Inc

23 4S 22W Norton KS

DST Test Number: 4

### Pressure vs. Time

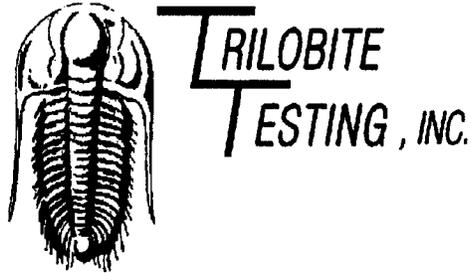


17 Tue Apr 2007

9AM

12PM

Time (Hours)



## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays KS 67601

ATTN: Kenny Vehige

**23 4S 22W Norton KS**

**Griffin A #1-23**

Start Date: 2007.04.18 @ 01:01:26

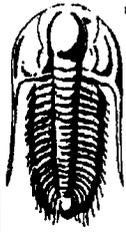
End Date: 2007.04.18 @ 09:10:41

Job Ticket #: 28279                      DST #: 5

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

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

ATTN: Kenny Vehige

Job Ticket: 28279

**DST#: 5**

Test Start: 2007.04.18 @ 01:01:26

## GENERAL INFORMATION:

Formation: **Marmaton-Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:06:26

Time Test Ended: 09:10:41

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3660.00 ft (KB) To 3725.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3725.00 ft (KB) (TVD)

2250.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

## Serial #: 6719

Inside

Press@RunDepth: 218.94 psig @ 3666.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.04.18

End Date:

2007.04.18

Last Calib.: 2007.04.18

Start Time: 01:01:28

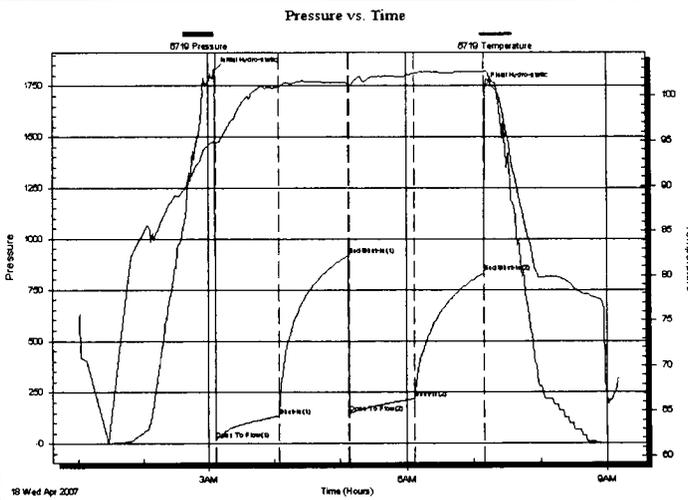
End Time:

09:10:41

Time On Btm: 2007.04.18 @ 03:06:11

Time Off Btm: 2007.04.18 @ 07:10:26

TEST COMMENT: IFP Good Blow BOB in 25 Mn  
ISI Dead  
FFP Good Blow BOB in 27 Mn  
FSI Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1823.32	95.03	Initial Hydro-static
1	20.44	94.70	Open To Flow (1)
59	135.88	101.01	Shut-In(1)
122	918.00	101.38	End Shut-In(1)
122	147.55	101.19	Open To Flow (2)
182	218.94	102.44	Shut-In(2)
244	832.67	102.58	End Shut-In(2)
245	1746.48	102.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
360.00	MV w/Oil Specks 85%W 15%M	3.97
60.00	OCWM 10%O 40%W 50%M	0.84
6.00	Free Oil	0.08

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28279

**DST#: 5**

ATTN: Kenny Vehige

Test Start: 2007.04.18 @ 01:01:26

**Tool Information**

Drill Pipe:	Length: 3543.00 ft	Diameter: 3.80 inches	Volume: 49.70 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 50.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3660.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	86.00 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			3640.00	
Shut In Tool	5.00			3645.00	
Hydraulic tool	5.00			3650.00	
Packer	5.00			3655.00	21.00 Bottom Of Top Packer
Packer	5.00			3660.00	
Stubb	1.00			3661.00	
Perforations	5.00			3666.00	
Recorder	0.00	6719	Inside	3666.00	
Blank Spacing	30.00			3696.00	
Perforations	26.00			3722.00	
Recorder	0.00	13221	Outside	3722.00	
Bullnose	3.00			3725.00	65.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28279

**DST#: 5**

ATTN: Kenny Vehige

Test Start: 2007.04.18 @ 01:01:26

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 15 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 52000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.76 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1500.00 ppm		
Filter Cake: inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
360.00	MV w/Oil Specks 85%W 15%M	3.966
60.00	OCWM 10%O 40%W 50%M	0.842
6.00	Free Oil	0.084

Total Length: 426.00 ft      Total Volume: 4.892 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6719

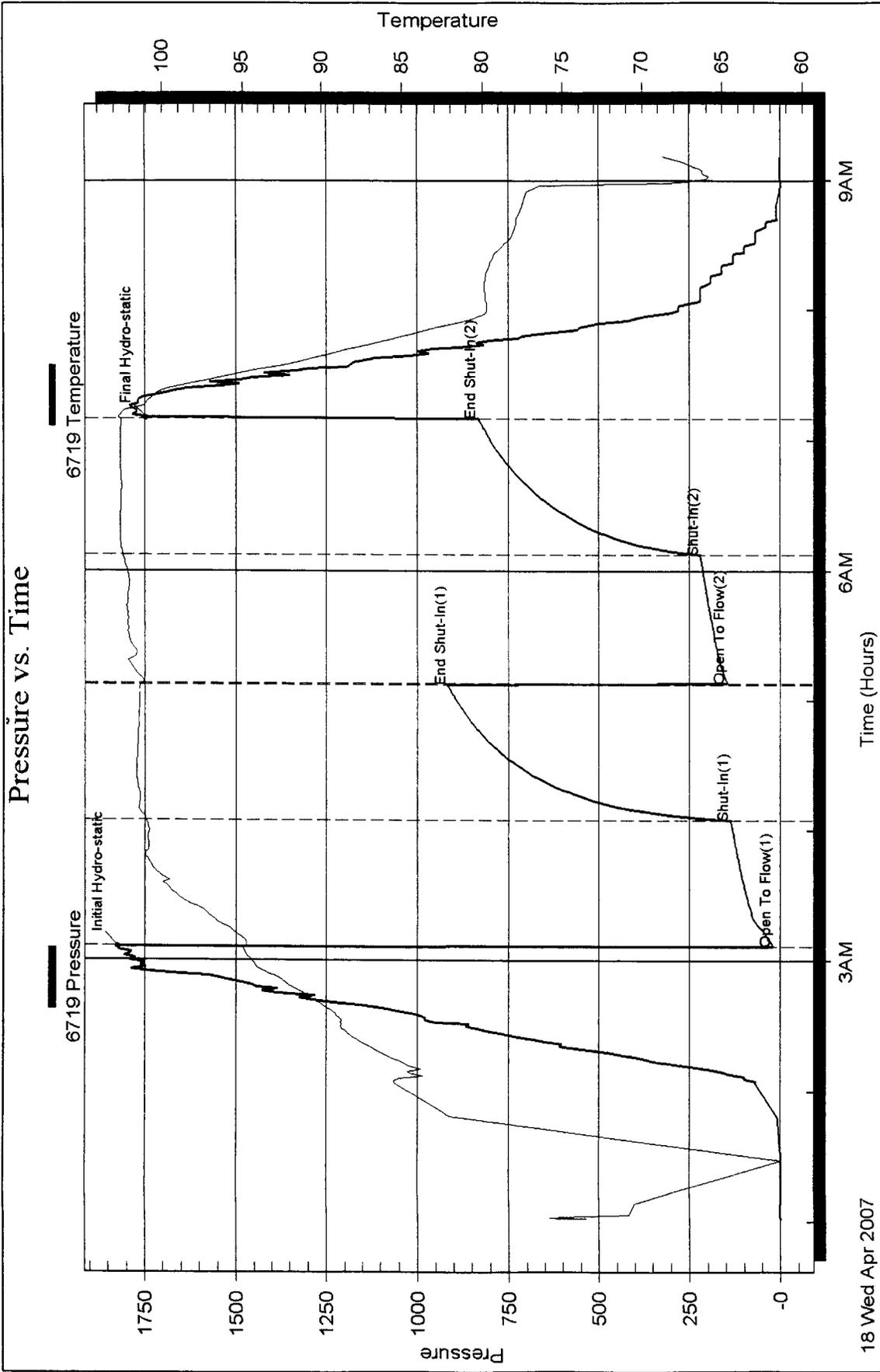
Inside

Black Diamond Oil Inc

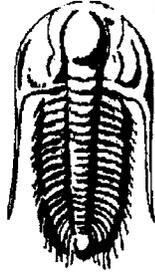
23 4S 22W Norton KS

DST Test Number: 5

### Pressure vs. Time



18 Wed Apr 2007



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays KS 67601

ATTN: Kenny Vehige

**23 4S 22W Norton KS**

**Griffin A #1-23**

Start Date: 2007.04.18 @ 12:59:19

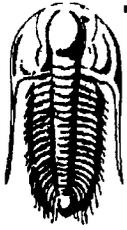
End Date: 2007.04.18 @ 16:31:34

Job Ticket #: 28280                      DST #: 6

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

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

ATTN: Kenny Vehige

Job Ticket: 28280

**DST#: 6**

Test Start: 2007.04.18 @ 12:59:19

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 16:31:34

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3724.00 ft (KB) To 3735.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3735.00 ft (KB) (TVD)

2250.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 6719** Inside

Press@RunDepth: psig @ 3727.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.04.18

End Date:

2007.04.18

Last Calib.: 2007.04.18

Start Time: 12:59:21

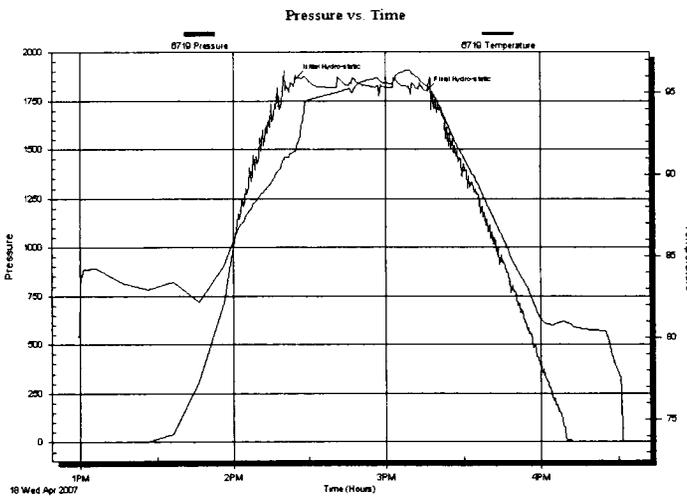
End Time:

16:31:34

Time On Btm: 2007.04.18 @ 14:25:04

Time Off Btm: 2007.04.18 @ 15:16:04

TEST COMMENT: IFP Plugged Tool, Pull Tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.49	91.63	Initial Hydro-static
51	1800.37	95.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00		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

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28280

**DST#: 6**

ATTN: Kenny Vehige

Test Start: 2007.04.18 @ 12:59:19

**Tool Information**

Drill Pipe:	Length: 3599.00 ft	Diameter: 3.80 inches	Volume: 50.48 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 51.07 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3724.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	32.00 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			3704.00	
Shut In Tool	5.00			3709.00	
Hydraulic tool	5.00			3714.00	
Packer	5.00			3719.00	21.00 Bottom Of Top Packer
Packer	5.00			3724.00	
Stubb	1.00			3725.00	
Perforations	2.00			3727.00	
Recorder	0.00	6719	Inside	3727.00	
Perforations	5.00			3732.00	
Recorder	0.00	13221	Outside	3732.00	
Bullnose	3.00			3735.00	11.00 Bottom Packers & Anchor

**Total Tool Length: 32.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28280

**DST#: 6**

ATTN: Kenny Vehige

Test Start: 2007.04.18 @ 12:59:19

## 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: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00		0.000

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

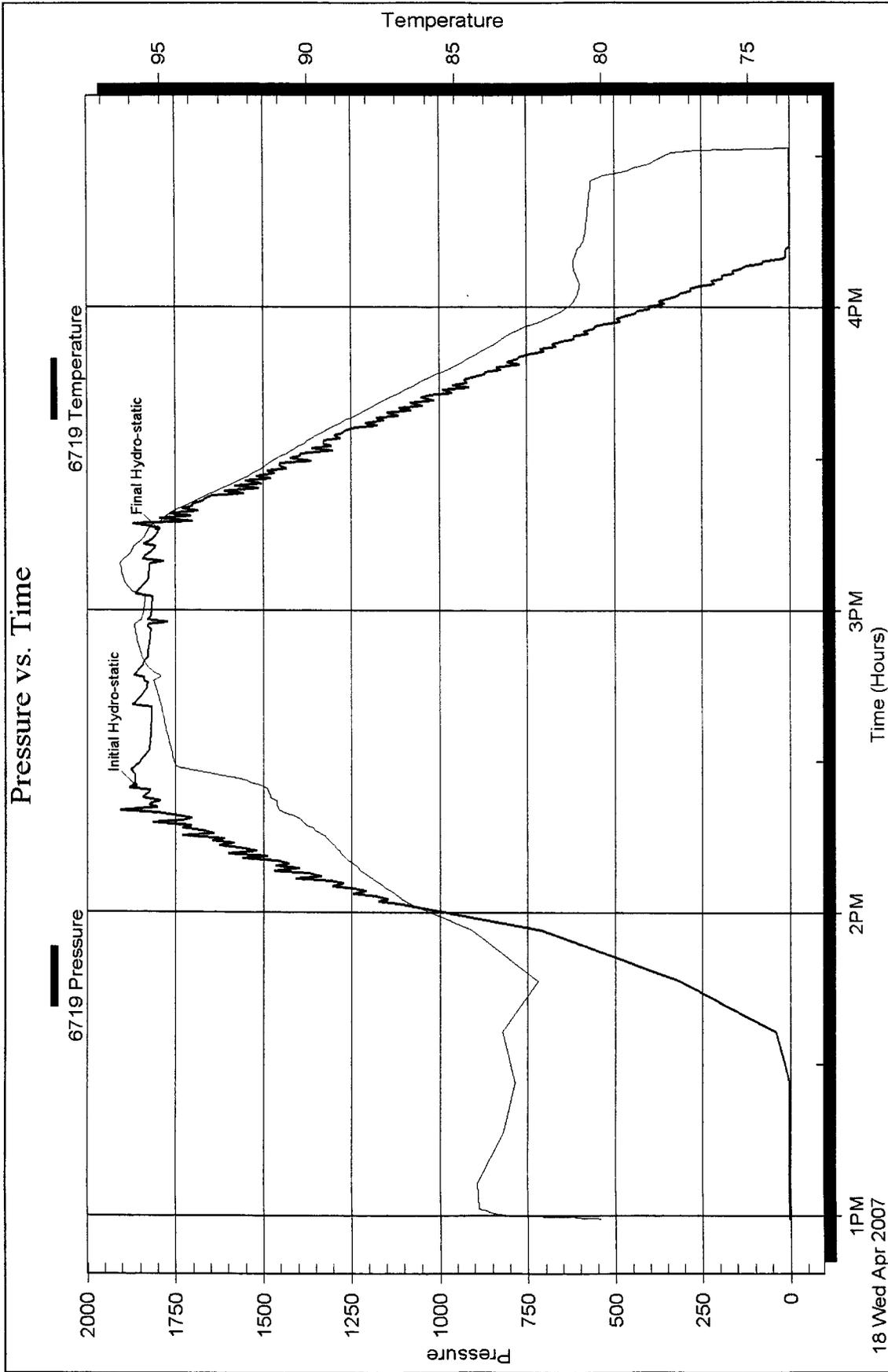
Serial #: 6719

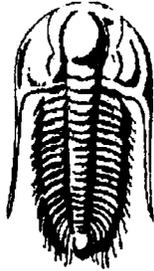
Inside

Black Diamond Oil Inc

23 4S 22W Norton KS

DST Test Number: 6





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays KS 67601

ATTN: Kenny Vehige

**23 4S 22W Norton KS**

**Griffin A #1-23**

Start Date: 2007.04.18 @ 20:50:57

End Date: 2007.04.19 @ 04:30:42

Job Ticket #: 28281                      DST #: 7

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

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28281

**DST#: 7**

ATTN: Kenny Vehige

Test Start: 2007.04.18 @ 20:50:57

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:36:57

Time Test Ended: 04:30:42

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3724.00 ft (KB) To 3735.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3735.00 ft (KB) (TVD)

2250.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 6719**

**Inside**

Press@RunDepth: 93.41 psig @ 3727.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.04.18

End Date:

2007.04.19

Last Calib.: 2007.04.19

Start Time: 20:50:59

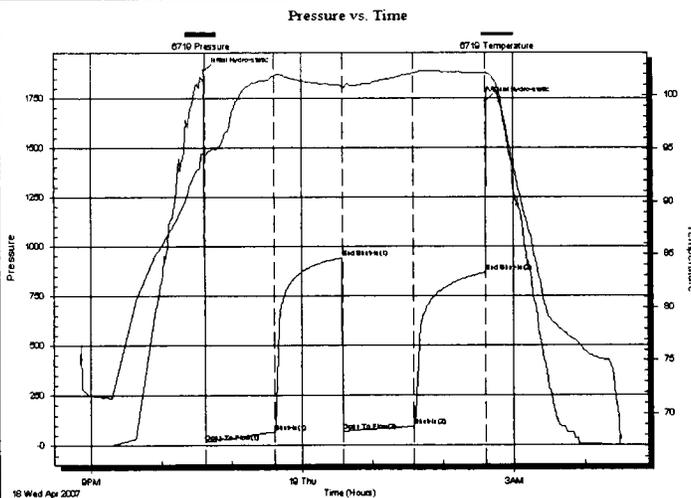
End Time:

04:30:42

Time On Btrn: 2007.04.18 @ 22:36:42

Time Off Btrn: 2007.04.19 @ 02:36:57

TEST COMMENT: IFP Weak Blow Built to 5 "  
ISI Dead  
FFP



## PRESSURE SUMMARY

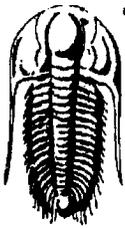
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.58	94.50	Initial Hydro-static
1	16.58	93.98	Open To Flow (1)
60	67.66	101.90	Shut-In(1)
118	941.42	100.98	End Shut-In(1)
119	70.15	100.78	Open To Flow (2)
180	93.41	102.12	Shut-In(2)
240	868.08	102.09	End Shut-In(2)
241	1734.27	102.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW w/Oil Spots 60%W 40%M	1.44
5.00	Free Oil	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28281

**DST#: 7**

ATTN: Kenny Vehige

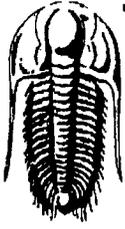
Test Start: 2007.04.18 @ 20:50:57

### Tool Information

Drill Pipe:	Length: 3600.00 ft	Diameter: 3.80 inches	Volume: 50.50 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 51.09 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3724.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	32.00 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			3704.00	
Shut In Tool	5.00			3709.00	
Hydraulic tool	5.00			3714.00	
Packer	5.00			3719.00	21.00 Bottom Of Top Packer
Packer	5.00			3724.00	
Stubb	1.00			3725.00	
Perforations	2.00			3727.00	
Recorder	0.00	6719	Inside	3727.00	
Perforations	5.00			3732.00	
Recorder	0.00	13221	Outside	3732.00	
Bullnose	3.00			3735.00	11.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>32.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Black Diamond Oil Inc

**Griffin A #1-23**

PO Box 641  
Hays KS 67601

**23 4S 22W Norton KS**

Job Ticket: 28281

**DST#: 7**

ATTN: Kenny Vehige

Test Start: 2007.04.18 @ 20:50:57

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 15 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 28000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3600.00 ppm		
Filter Cake: inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
180.00	MW w/Oil Spots 60%W 40%M	1.441
5.00	Free Oil	0.070

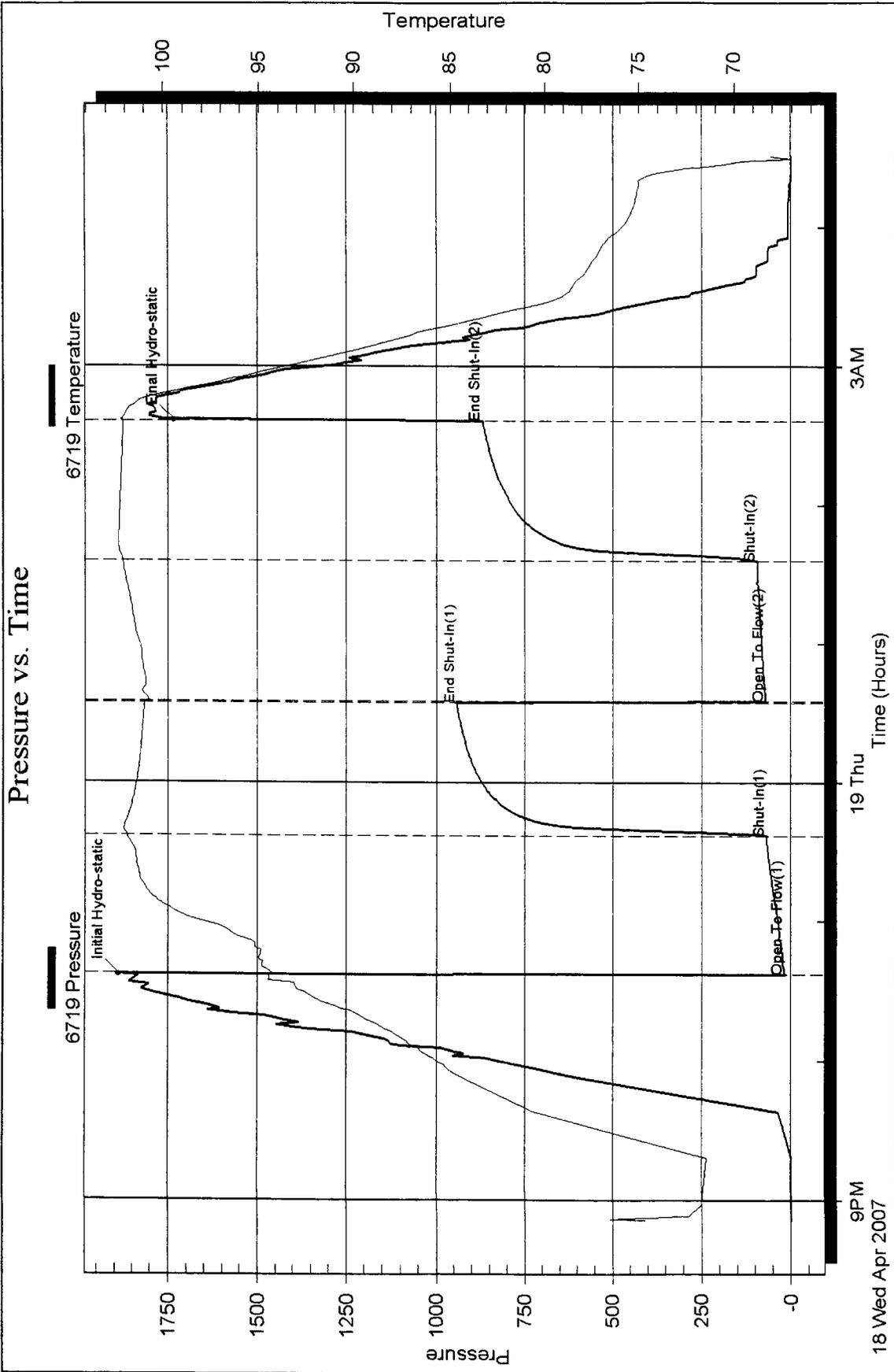
Total Length: 185.00 ft      Total Volume: 1.511 bbl

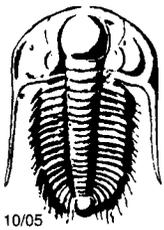
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

# Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27650

10059 ✓

## Test Ticket

Well Name & No. Griffin "A" #1-23 Test No. 1 Date 4-15-07  
 Company Black Diamond Oil, Inc. Zone Tested A  
 Address PO Box 641, Hays, Ks 67601 Elevation 2255 KB 2250 GL  
 Co. Rep / Geo. Kenny Vehiga Rig WW #6  
 Location: Sec. 23 Twp. 4s Rge. 22w Co. Norton State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3460 - 3485 Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 48,000  
 Anchor Length 25' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 46,000  
 Top Packer Depth 3455 Tool Weight 2200  
 Bottom Packer Depth 3460 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3485 Wt. Pipe Run 0 Drill Collar Run 119  
 Mud Wt. 8.8 LCM Tr Vis. 50 WL 8.8 Drill Pipe Size 4 1/2 FH Ft. Run 3324  
 Blow Description IFP - Fair Blow, Built to 8"  
ISI - Dead  
FFP - Fair Blow, Built to 9"  
FSI - Dead

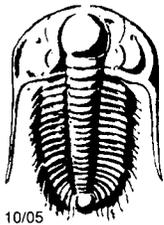
Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>250</u>	Feet of <u>Salt Water</u>	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil

BHT 100° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 367 @ 47° °F Chlorides 25,000 ppm Recovery \_\_\_\_\_ Chlorides 1,500 ppm System

AK-1	Alpine	Recorder No.	Pressure	Recorder No.	Pressure
(A) Initial Hydrostatic Mud	<u>1647</u> PSI	<u>6719</u>	<u>1100</u>	<u>6719</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>16</u> PSI	(depth)	<u>3462</u>	Jars	
(C) First Final Flow Pressure	<u>83</u> PSI	Recorder No.	<u>13221</u>	Safety Jt.	
(D) Initial Shut-In Pressure	<u>1246</u> PSI	(depth)	<u>3482</u>	Circ Sub	
(E) Second Initial Flow Pressure	<u>87</u> PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	<u>131</u> PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	<u>1216</u> PSI	Initial Opening	<u>45</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>1571</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer	
		Final Flow	<u>60</u>	Ruined Packer	
		Final Shut-In	<u>60</u>	Mileage <u>104 RT 130</u>	
		T-On Location	<u>18:00</u>	Sub Total:	
		T-Started	<u>19:25</u>	Std. By	
		T-Open	<u>21:19</u>	Acc. Chg:	
		T-Pulled	<u>00:49</u>	Other:	<u>\$1730</u>
		T-Out	<u>2:23</u>	Total:	

Approved By \_\_\_\_\_  
 Our Representative J. Mc Loman *thank you*

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.



# TRILOBITE TESTING INC.

28276

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Griffin "A" #1-23 Test No. 2 Date 4-16-07  
 Company Black Diamond Oil, Inc. Zone Tested Toronto - "A"  
 Address PO Box 641, Hays, Ks. 67601 Elevation 2255 KB 2250 GL  
 Co. Rep / Geo. Kenny Vehige Rig WW #6  
 Location: Sec. 23 Twp. 4s Rge. 22w Co. Norton State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3426 - 3485 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 41,000  
 Anchor Length 59' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 3421 Tool Weight 2200  
 Bottom Packer Depth 3426 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3485 Wt. Pipe Run 0 Drill Collar Run 119  
 Mud Wt. 8.8 LCM Tr Vis. 50 WL 8.8 Drill Pipe Size 4 1/2 FH Ft. Run 3294  
 Blow Description IFP - Good Blow, BOB in 25 min.

ISI - Dead  
FFP - Weak Blow, Built to 3 1/2"  
FSI - Dead

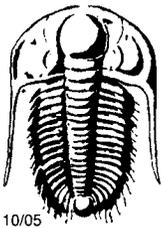
Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>390</u>		<u>119</u>	<u>271</u>
Rec. <u>10</u>	Feet of <u>MW w/oil specks</u>	%gas	%oil <u>40</u> %water <u>60</u> %mud
Rec. <u>380</u>	Feet of <u>Muddy Water</u>	%gas	%oil <u>70</u> %water <u>30</u> %mud
Rec. _____	Feet of _____	%gas	%oil _____ %water _____ %mud
Rec. _____	Feet of _____	%gas	%oil _____ %water _____ %mud
Rec. _____	Feet of _____	%gas	%oil _____ %water _____ %mud

BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 209 @ 56' °F Chlorides 39,000 ppm Recovery \_\_\_\_\_ Chlorides 1500 ppm System

AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1706</u> PSI	<u>6719</u>	<u>1160</u>
(B) First Initial Flow Pressure	<u>70</u> PSI	(depth) <u>3432</u>	Jars _____
(C) First Final Flow Pressure	<u>162</u> PSI	Recorder No. <u>13221</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1216</u> PSI	(depth) <u>3782</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>166</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>230</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1210</u> PSI	<b>Initial Opening</b> <u>45</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1633</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By \_\_\_\_\_ T-Started 2:39 Std. By \_\_\_\_\_  
 Our Representative J. Mc Lemore Thank you T-Open 4:15 Acc. Chg: 1230  
 T-Pulled 7:15 Other: \_\_\_\_\_  
 T-Out 9:08 Total: \_\_\_\_\_



# TRILOBITE TESTING INC.

28277

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Griffin A #1-23 Test No. 3 Date 4-16-07  
 Company Black Diamond Oil, Inc. Zone Tested "C-D"  
 Address PO Box 641, Hays, Ks. 67601 Elevation 2255 KB 2250 GL  
 Co. Rep / Geo. Kenny Vehige Rig WW #6  
 Location: Sec. 23 Twp. 4s Rge. 22w Co. Norton State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3485 - 3530 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 42,000  
 Anchor Length 45' Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 44,000  
 Top Packer Depth 3480 Tool Weight 2200  
 Bottom Packer Depth 3485 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3530 Wt. Pipe Run 0 Drill Collar Run 119  
 Mud Wt. 9.2 LCM 0 Vis. 52 WL 8.0 Drill Pipe Size 4 1/2 FH Ft. Run 3356  
 Blow Description FFP - Weak Blow, Built to 3"  
ISI - Dead  
FFP - Weak Blow, Built to 1 1/2"  
FSI - Dead

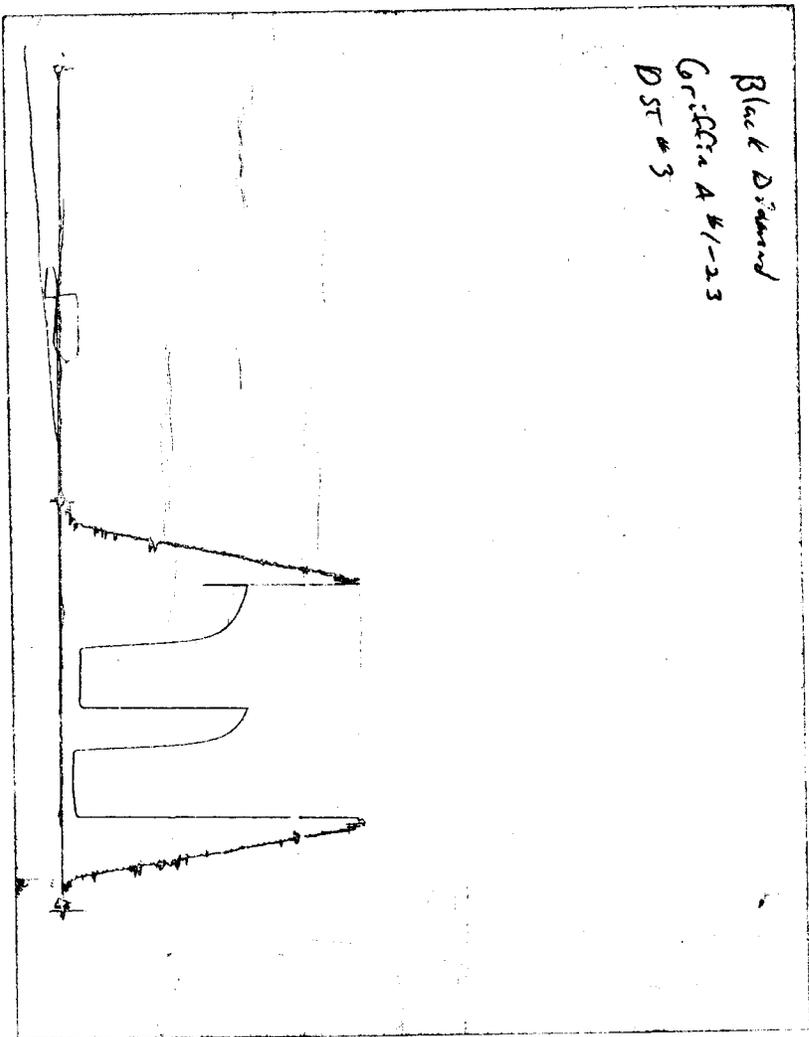
Recovery - Total Feet 115 GIP \_\_\_\_\_ Ft. in DC 115 Ft. in DP ✓  
 Rec. 115 Feet of Mud, Oil specks in top %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of Trace Water %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 96° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm System

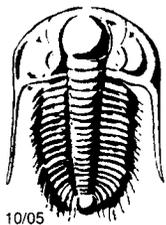
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1694</u> PSI	<u>6719</u>	<u>1100</u>
(B) First Initial Flow Pressure		<u>16</u> PSI	(depth) <u>3491</u>	Jars _____
(C) First Final Flow Pressure		<u>42</u> PSI	Recorder No. <u>13221</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>1111</u> PSI	(depth) <u>3527</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>47</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>67</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1111</u> PSI	<b>Initial Opening</b> <u>60</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1681</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____
			Final Flow <u>60</u>	Ruined Packer _____
			Final Shut-In <u>60</u>	Mileage <u>164 rt 130</u>
			<b>T-On Location</b> <u>15:00</u>	Sub Total: _____
			T-Started <u>15:12</u>	Std. By _____
			T-Open <u>16:43</u>	Acc. Chg: _____
			T-Pulled <u>20:28</u>	Other: <u>\$1230</u>
			T-Out <u>21:58</u>	Total: _____

TRILOBITES TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By \_\_\_\_\_  
 Our Representative J. Mc Lemou *Thank You!*

**CHART PAGE**  
This is a photocopy of the actual AK-1 recorder chart.





# TRILOBITE TESTING INC.

28278

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Griffin A #1-23 Test No. 4 Date 4-17-07  
 Company Black Diamond Oil, Inc. Zone Tested L1C - "H-I-J"  
 Address PO Box 641, Hays, Ks. 67601 Elevation 2255 KB 2250 GL  
 Co. Rep / Geo. Kenny Vehige, Tony Richardson Rig WW #6  
 Location: Sec. 23 Twp. 4s Rge. 22w Co. Norton State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3564-3644 Initial Str Wt./Lbs. 43,000 Unseated Str Wt./Lbs. 43,000  
 Anchor Length 80' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 45,000  
 Top Packer Depth 3559 Tool Weight 2200  
 Bottom Packer Depth 3564 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3644 Wt. Pipe Run 0 Drill Collar Run 119  
 Mud Wt. 9.3 LCM 0 Vis. 59 WL 8.8 Drill Pipe Size 4 1/2 FH Ft. Run 3447  
 Blow Description IFP - Fair Blow, Built to 8"  
ISI - Dead  
FFP - Weak Blow, Built to 4"  
FSI - Dead

Recovery - Total Feet 190 GIP \_\_\_\_\_ Ft. in DC 119 Ft. in DP 71  
 Rec. 70 Feet of Mud w/oil specks %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 120 Feet of Watery Mud w/oil specks %gas 20 %oil \_\_\_\_\_ %water 80 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 98° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .446 @ 60 °F Chlorides 16,500 ppm Recovery \_\_\_\_\_ Chlorides 3,000 ppm System

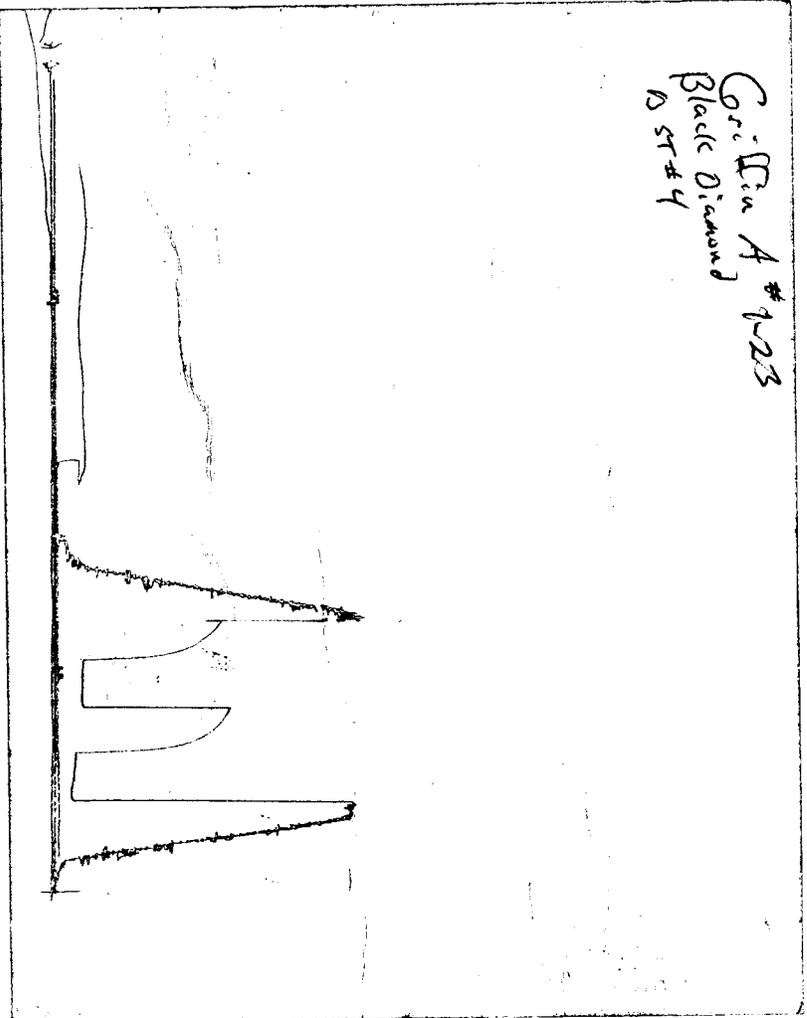
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1742</u> PSI	<u>6719</u>	<u>1100</u>
(B) First Initial Flow Pressure		<u>18</u> PSI	(depth) <u>3570</u>	Jars _____
(C) First Final Flow Pressure		<u>80</u> PSI	Recorder No. <u>13221</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>1038</u> PSI	(depth) <u>3641</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>82</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>104</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>982</u> PSI	Initial Opening <u>45</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1695</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____

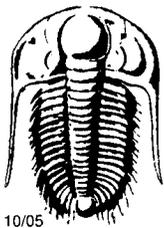
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Approved By \_\_\_\_\_  
 Our Representative J. McLemore *Thank you*

Final Flow	<u>45</u>	Ruined Packer	_____
Final Shut-In	<u>45</u>	Mileage	<u>104 RT 130</u>
T-On Location	<u>7:15</u>	Sub Total:	_____
T-Started	<u>7:30</u>	Std. By	_____
T-Open	<u>9:08</u>	Acc. Chg:	_____
T-Pulled	<u>12:08</u>	Other:	<u>\$1230</u>
T-Out	<u>13:35</u>	Total:	_____

**CHART PAGE**  
This is a photocopy of the actual AK-1 recorder chart.





# TRILOBITE TESTING INC.

28279

P.O. Box 362 • Hays, Kansas 67601

10/05

## Test Ticket

Well Name & No. Griffin A #1-23 Test No. 5 Date 4-17-07  
 Company Black Diamond Oil, Inc. Zone Tested Marmaton - Arbuckle  
 Address PO Box 641, Hays, Ks. 67601 Elevation 2255 KB 2250 GL  
 Co. Rep / Geo. Kenny Vehige, Tony Richardson Rig WW #6  
 Location: Sec. 23 Twp. 4s Rge. 22w Co. Norton State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3660 - 3725 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 45,000  
 Anchor Length 65' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 56,000  
 Top Packer Depth 3655 Tool Weight 2200  
 Bottom Packer Depth 3660 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3725 Wt. Pipe Run 0 Drill Collar Run 114  
 Mud Wt. 9.3 LCM 0 Vis. 59 WL 8.8 Drill Pipe Size 4 1/2 FH Ft. Run 3543  
 Blow Description IFF - Good Blow, BOB in 25 min  
ISI - Dead  
FFF - Good Blow, BOB in 27 min.  
FSI - Dead

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>6</u>	Feet of <u>Free Oil</u>	%gas	%oil
Rec. <u>60</u>	Feet of <u>OCWM</u>	%gas	10 %oil 40 %water 50 %mud
Rec. <u>360</u>	Feet of <u>MW oil specks</u>	%gas	%oil 85 %water 15 %mud
Rec. _____	Feet of _____	%gas	%oil %water %mud
Rec. _____	Feet of _____	%gas	%oil %water %mud

BHT 103° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 0.166 @ 57° °F Chlorides 52,000 ppm Recovery \_\_\_\_\_ Chlorides 3,000 ppm System

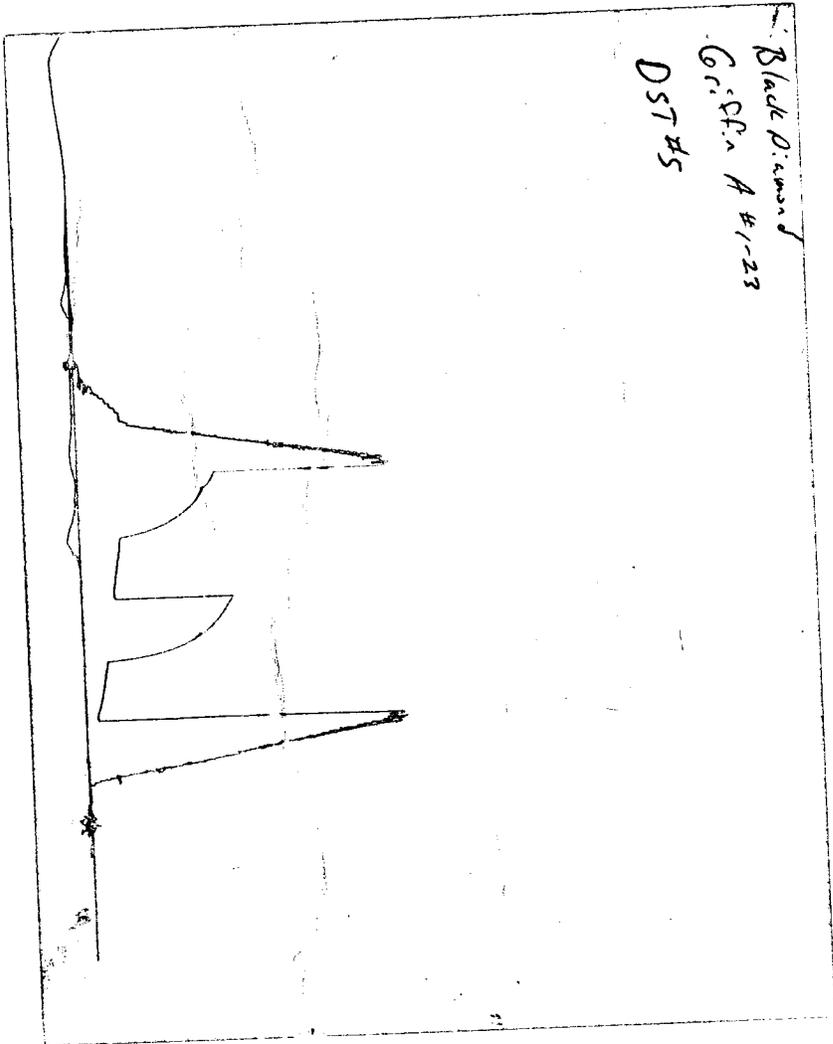
	AK-1	Alpine	Recorder No.	(Test)
(A) Initial Hydrostatic Mud	<u>1823</u>	PSI	<u>6219</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>20</u>	PSI	<u>3666</u>	Jars _____
(C) First Final Flow Pressure	<u>136</u>	PSI	<u>13221</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>918</u>	PSI	<u>3722</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>148</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>219</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>833</u>	PSI	Initial Opening <u>60</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1746</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer _____
			Final Flow <u>60</u>	Ruined Packer _____
			Final Shut-In <u>60</u>	Mileage <u>164</u> or <u>130</u>
			T-On Location <u>22:38</u>	Sub Total: _____
			T-Started <u>1:01</u>	Std. By <u>1.75</u> <u>175</u>
			T-Open <u>3:07</u>	Acc. Chg: _____
			T-Pulled <u>7:07</u>	Other: _____
			T-Out <u>9:11</u>	Total: <u>\$1405</u>

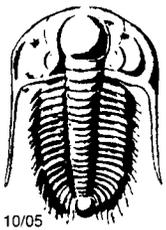
Approved By \_\_\_\_\_  
 Our Representative J. Mc Lamon *Thank you*

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This is a photocopy of the actual AK-1 recorder chart.

**CHART PAGE**





# TRILOBITE TESTING INC.

28280

P.O. Box 362 • Hays, Kansas 67601

10/05

## Test Ticket

Well Name & No. Griffin A #1-23 Test No. 6 Date 4-18-07  
 Company Black Diamond Oil, Inc. Zone Tested Arbuckle  
 Address PO Box 641, Hays, Ks. 67601 Elevation 2255 KB 2250 GL  
 Co. Rep / Geo. Kenny Vehige, Tony Richardson Rig WW #6  
 Location: Sec. 23 Twp. 4s Rge. 22w Co. Norton State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3724-3735 Initial Str Wt./Lbs. 44,000 Unseated Str Wt/Lbs. 44,000  
 Anchor Length 11' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 52,000  
 Top Packer Depth 3719 Tool Weight 2200  
 Bottom Packer Depth 3724 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3735 Wt. Pipe Run 0 Drill Collar Run 119  
 Mud Wt. 9.4 LCM Tr Vis. 52 WL 8.8 Drill Pipe Size 4 1/2 FH Ft. Run \_\_\_\_\_  
 Blow Description IFP- plugged tool Tried to flush (out of hole)

Recovery - Total Feet \_\_\_\_\_ GIP \_\_\_\_\_ Ft. in DC \_\_\_\_\_ Ft. in DP \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 3,500 ppm System

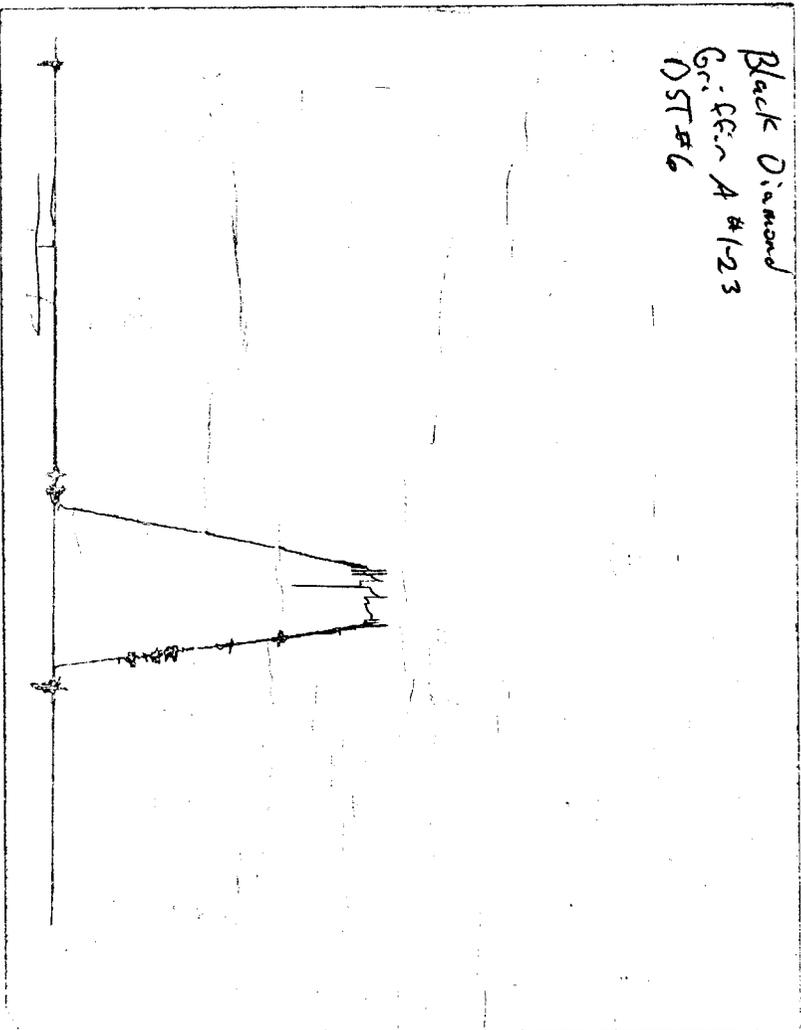
	AK-1	Alpine	PSI	Recorder No.	Test	
(A) Initial Hydrostatic Mud		<u>1800</u>		<u>6719</u>		<u>900</u>
(B) First Initial Flow Pressure		/		(depth) <u>3725</u>		Jars _____
(C) First Final Flow Pressure				Recorder No. <u>13252</u>		Safety Jt. _____
(D) Initial Shut-In Pressure				(depth) <u>3732</u>		Circ Sub _____
(E) Second Initial Flow Pressure				Recorder No. _____		Sampler _____
(F) Second Final Flow Pressure				(depth) _____		Straddle _____
(G) Final Shut-In Pressure			PSI <b>Initial Opening</b> _____		Ext. Packer _____	
(Q) Final Hydrostatic Mud		<u>1865</u>	PSI	Initial Shut-In _____		Shale Packer _____

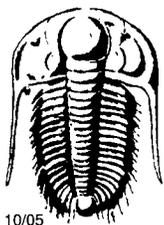
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Approved By \_\_\_\_\_  
 Our Representative J. Mc Lomax *Thank you*

Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  
**T-On Location** 12:52  
 T-Started 12:59  
 T-Open 14:25  
 T-Pulled 15:09  
 T-Out 16:31  
 Mileage 164 130  
 Sub Total: \_\_\_\_\_  
 Std. By \_\_\_\_\_  
 Acc. Chg: \_\_\_\_\_  
 Other: \$1030  
 Total: \_\_\_\_\_

**CHART PAGE**  
This is a photocopy of the actual AK-1 recorder chart.





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

28281

## Test Ticket

Well Name & No. Griffin A #1-23 Test No. 7 Date 4-18-07  
 Company Black Diamond Oil, Inc. Zone Tested Arbuckle  
 Address PO Box 641, Hays, Ks. 67601 Elevation 2255 KB 2250 GL  
 Co. Rep / Geo. Kenny Velige - Tony Richardson Rig WW #6  
 Location: Sec. 23 Twp. 4s Rge. 22w Co. Norton State Ks  
 Comment: spotted premix tank on bottom w/Hulls Release date / time: \_\_\_\_\_

Interval Tested 3724, 3735 Initial Str Wt./Lbs. 42,000 Unseated Str Wt/Lbs. 44,000  
 Anchor Length 11' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 45,000  
 Top Packer Depth 3719 Tool Weight 2200  
 Bottom Packer Depth 3724 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3735 Wt. Pipe Run 0 Drill Collar Run 119  
 Mud Wt. 9.4 LCM Tr Vis. 52 WL 8.8 Drill Pipe Size 4 1/2 FH Ft. Run 3600  
 Blow Description IFP-Weak Blow, Built to 5"  
ISI-Dead  
FIP-Weak Blow, Built to 5"  
FSI-Dead

Recovery - Total Feet 185 GIP \_\_\_\_\_ Ft. in DC 119 Ft. in DP 66  
 Rec. 5 Feet of Free Oil %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 180 Feet of MW w/oil spots %gas <1 %oil 60 %water 40 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 102 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity 15 °API  
 RW 310 @ 49 °F Chlorides 28,000 ppm Recovery \_\_\_\_\_ Chlorides 3,500 ppm System

AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1887</u> PSI	<u>6719</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>17</u> PSI	(depth) <u>3725</u>	Jars _____
(C) First Final Flow Pressure	<u>68</u> PSI	Recorder No. <u>13221</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>941</u> PSI	(depth) <u>3732</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>70</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>93</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>868</u> PSI	Initial Opening <u>60</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1762</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____
		Final Flow <u>60</u>	Ruined Packer _____
		Final Shut-In <u>60</u>	Mileage <u>1647</u>
		T-On Location <u>20:00</u>	Sub Total: _____
		T-Started <u>20:50</u>	Std. By _____
		T-Open <u>22:36</u>	Acc. Chg: _____
		T-Pulled <u>2:36</u>	Other: <u>\$1100</u>
		T-Out <u>4:30</u>	Total: _____

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Approved By \_\_\_\_\_  
 Our Representative J. McLoman *Thank You!*

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.

