



DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

34-4s-22w Norton Ks

Harting #1

Start Date: 2004.04.03 @ 09:05:28

End Date: 2004.04.03 @ 14:24:27

Job Ticket #: 19406 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

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

Harting #1

34-4s-22w Norton Ks

Job Ticket: 19406

DST#: 1

Test Start: 2004.04.03 @ 09:05:28

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:35:57

Time Test Ended: 14:24:27

Interval: **3368.00 ft (KB) To 3416.00 ft (KB) (TVD)**

Total Depth: 3416.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 2234.00 ft (KB)

2226.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6668

Inside

Press@RunDepth: 26.61 psig @ 3382.01 ft (KB)

Start Date: 2004.04.03

End Date:

2004.04.03

Start Time: 09:05:28

End Time:

14:24:27

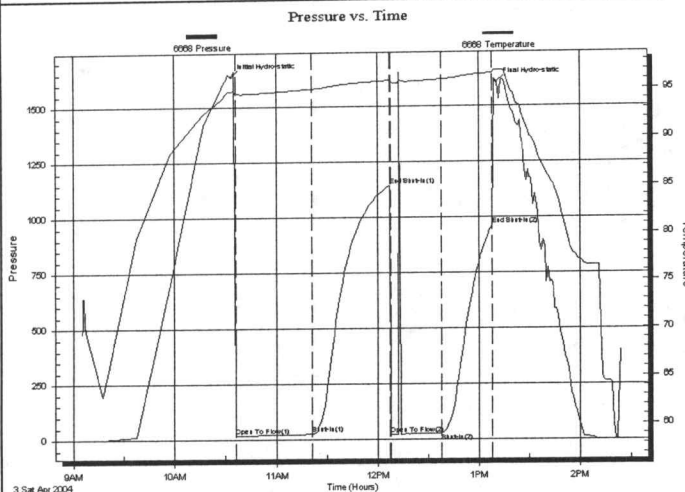
Capacity: 7000.00 psig

Last Calib.: 2004.04.03

Time On Btm: 2004.04.03 @ 10:33:27

Time Off Btm: 2004.04.03 @ 13:10:27

TEST COMMENT: IFP-wk bl thru-out 1/4"bl
FFP-surface bl, flushed tool, 1/4"bl after flush
Times 45-45-30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.17	94.87	Initial Hydro-static
3	18.02	94.49	Open To Flow (1)
48	25.52	95.06	Shut-In (1)
94	1145.71	95.92	End Shut-In (1)
94	22.84	95.72	Open To Flow (2)
125	26.61	96.01	Shut-In (2)
155	964.88	96.63	End Shut-In (2)
157	1605.65	96.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud w/show of oil	0.21

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

Harting #1

34-4s-22w Norton Ks

Job Ticket: 19406

DST#: 1

Test Start: 2004.04.03 @ 09:05:28

Tool Information

Drill Pipe:	Length: 3362.00 ft	Diameter: 3.80 inches	Volume: 47.16 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			Total Volume: 47.16 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3368.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.02 ft				
Tool Length:	69.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3348.00	
Shut In Tool	5.00			3353.00	
Hydraulic tool	5.00			3358.00	
Packer	5.00			3363.00	21.00 Bottom Of Top Packer
Packer	5.00			3368.00	
Stubb	1.00			3369.00	
Perforations	12.00			3381.00	
Change Over Sub	1.00			3382.00	
Recorder	0.01	6668	Inside	3382.01	
Blank Spacing	30.00			3412.01	
Change Over Sub	1.00			3413.01	
Recorder	0.01	11085	Outside	3413.02	
Bullnose	3.00			3416.02	48.02 Bottom Packers & Anchor

Total Tool Length: 69.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Inc

Harting #1

P O Box 461
Hays Ks 67601

34-4s-22w Norton Ks

Job Ticket: 19406

DST#: 1

ATTN: Ken Vihige

Test Start: 2004.04.03 @ 09:05:28

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: 7.93 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud w/show of oil	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

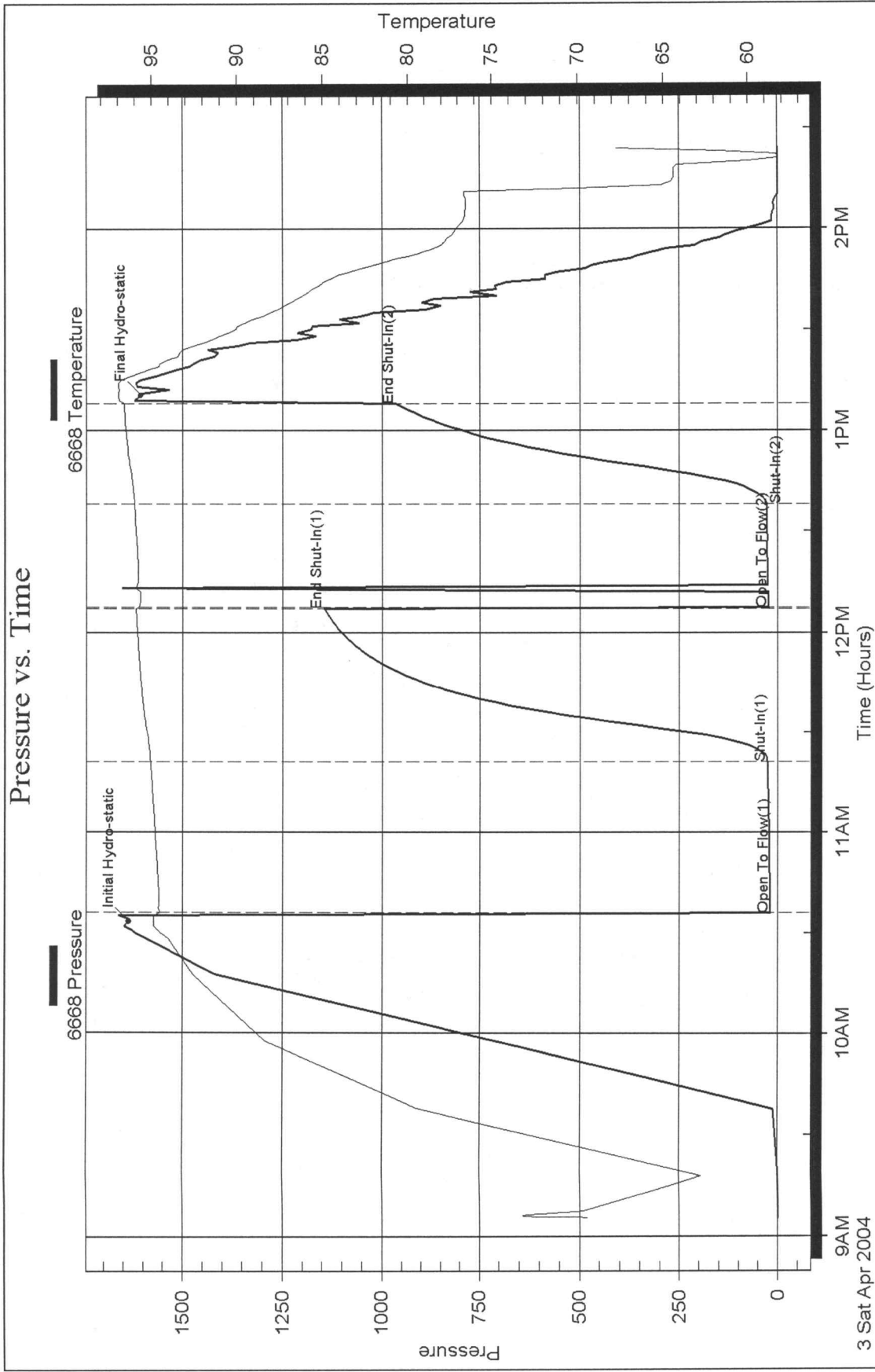
Serial #: 6668

Inside

Black Diamond Oil Inc

34-4s-22w Norton Ks

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

34-4s-22w Norton Ks

Harting #1

Start Date: 2004.04.04 @ 12:05:28

End Date: 2004.04.04 @ 14:45:00

Job Ticket #: 19407 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



Black Diamond Oil Inc

ATTN: Ken Vihige

Harting #1

34-4s-22w Norton Ks

Job Ticket: 19407

DST#: 2

Test Start: 2004.04.04 @ 12:05:28

Formation: LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 14:45:00

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: 3505.00 ft (KB) To 3595.00 ft (KB) (TVD)

Total Depth: 3595.00 ft (KB) (TVD)

Hole Diameter: 7.85 inchesHole Condition:

Reference Elevations: 2234.00 ft (KB)

2226.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6668

Inside

Press@RunDepth: psig @ 3510.01 ft (KB)

Start Date: 2004.04.04

End Date:

2004.04.04

Start Time: 12:41:39

End Time:

14:45:08

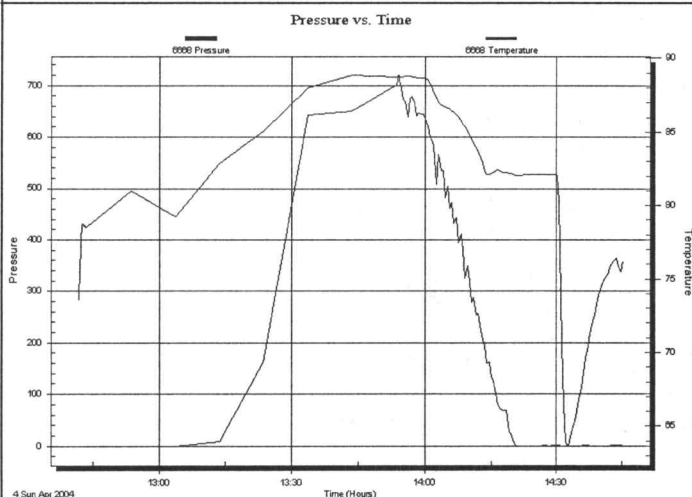
Capacity: 7000.00 psig

1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: Hit bridge going in w /tool w ould not go thru
approx 1540' & 1600'



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

[illegible]

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

Harting #1

34-4s-22w Norton Ks

Job Ticket: 19407

DST#: 2

Test Start: 2004.04.04 @ 12:05:28

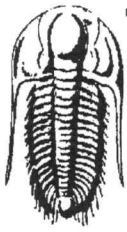
Tool Information

Drill Pipe:	Length:	3514.00 ft	Diameter:	3.80 inches	Volume:	49.29 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	lb
					Total Volume:	49.29 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft							
Depth to Top Packer:	3505.00 ft							
Depth to Bottom Packer:	ft							
Interval between Packers:	90.02 ft							
Tool Length:	111.02 ft							
Number of Packers:	2		Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3485.00	
Shut In Tool	5.00			3490.00	
Hydraulic tool	5.00			3495.00	
Packer	5.00			3500.00	21.00 Bottom Of Top Packer
Packer	5.00			3505.00	
Stubb	1.00			3506.00	
Perforations	3.00			3509.00	
Change Over Sub	1.00			3510.00	
Recorder	0.01	6668	Inside	3510.01	
Blank Spacing	62.00			3572.01	
Change Over Sub	1.00			3573.01	
Perforations	19.00			3592.01	
Recorder	0.01	11085	Outside	3592.02	
Bullnose	3.00			3595.02	90.02 Bottom Packers & Anchor

Total Tool Length: 111.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Inc

Harting #1

P O Box 461
Hays Ks 67601

34-4s-22w Norton Ks

Job Ticket: 19407

DST#: 2

ATTN: Ken Vihige

Test Start: 2004.04.04 @ 12:05:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

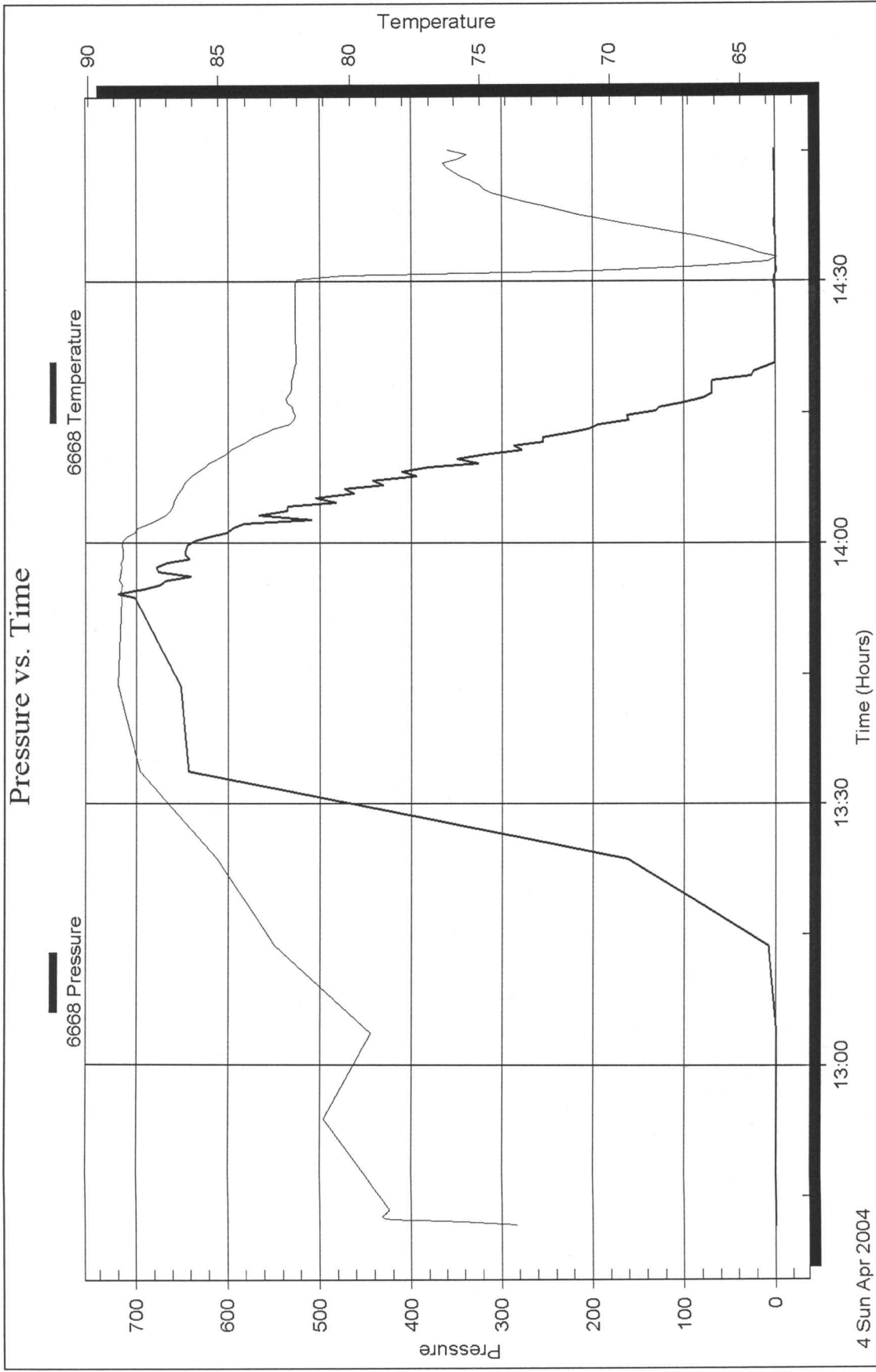
Serial #: 6668

Inside

Black Diamond Oil Inc

34-4s-22w Norton Ks

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

34-4s-22w Norton Ks

Harting #1

Start Date: 2004.04.04 @ 19:09:40

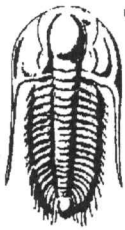
End Date: 2004.04.05 @ 02:28:09

Job Ticket #: 19408 DST #: 3

Trilobite Testing, Inc

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Black Diamond Oil Inc

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

Harting #1

34-4s-22w Norton Ks

Job Ticket: 19408

DST#: 3

Test Start: 2004.04.04 @ 19:09:40

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:51:09

Time Test Ended: 02:28:09

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3505.00 ft (KB) To 3595.00 ft (KB) (TVD)**

Total Depth: 3595.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2234.00 ft (KB)

2226.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6668

Inside

Press@RunDepth: 257.06 psig @ 3510.01 ft (KB)

Start Date: 2004.04.04

End Date:

2004.04.05

Start Time: 19:09:40

End Time:

02:28:09

Capacity: 7000.00 psig

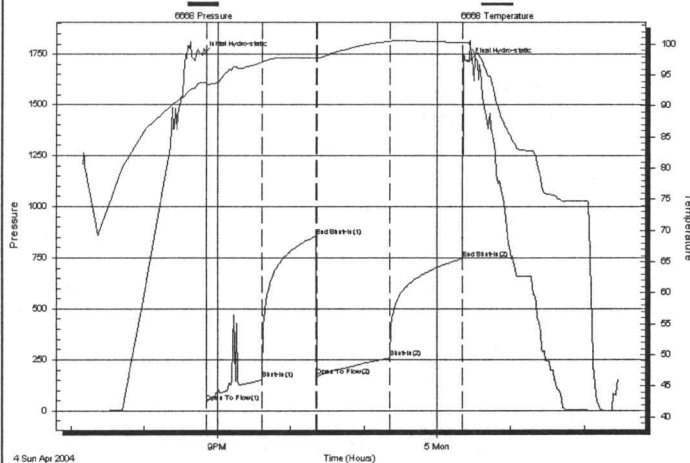
Last Calib.: 2004.04.05

Time On Btm: 2004.04.04 @ 20:47:39

Time Off Btm: 2004.04.05 @ 00:25:09

TEST COMMENT: IFP-wk to strg in 7 min
FFP-wk to a gd bl 1/4" to 8"bl
Times 45-45-60-60
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1747.68	93.69	Initial Hydro-static
4	42.15	93.51	Open To Flow (1)
49	153.30	97.09	Shut-In (1)
93	854.88	97.86	End Shut-In (1)
94	167.36	97.71	Open To Flow (2)
153	257.06	100.44	Shut-In (2)
213	746.29	100.27	End Shut-In (2)
218	1713.51	100.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc

Harting #1

P O Box 461
Hays Ks 67601

34-4s-22w Norton Ks

Job Ticket: 19408

DST#: 3

ATTN: Ken Vihige

Test Start: 2004.04.04 @ 19:09:40

Tool Information

Drill Pipe:	Length: 3514.00 ft	Diameter: 3.80 inches	Volume: 49.29 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 49.29 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3505.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.02 ft			
Tool Length:	111.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3485.00	
Shut In Tool	5.00			3490.00	
Hydraulic tool	5.00			3495.00	
Packer	5.00			3500.00	21.00 Bottom Of Top Packer
Packer	5.00			3505.00	
Stubb	1.00			3506.00	
Perforations	3.00			3509.00	
Change Over Sub	1.00			3510.00	
Recorder	0.01	6668	Inside	3510.01	
Blank Spacing	62.00			3572.01	
Change Over Sub	1.00			3573.01	
Perforations	19.00			3592.01	
Recorder	0.01	11085	Outside	3592.02	
Bullnose	3.00			3595.02	90.02 Bottom Packers & Anchor

Total Tool Length: 111.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Inc

Harting #1

P O Box 461
Hays Ks 67601

34-4s-22w Norton Ks

Job Ticket: 19408

DST#: 3

ATTN: Ken Vihige

Test Start: 2004.04.04 @ 19:09:40

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.16 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

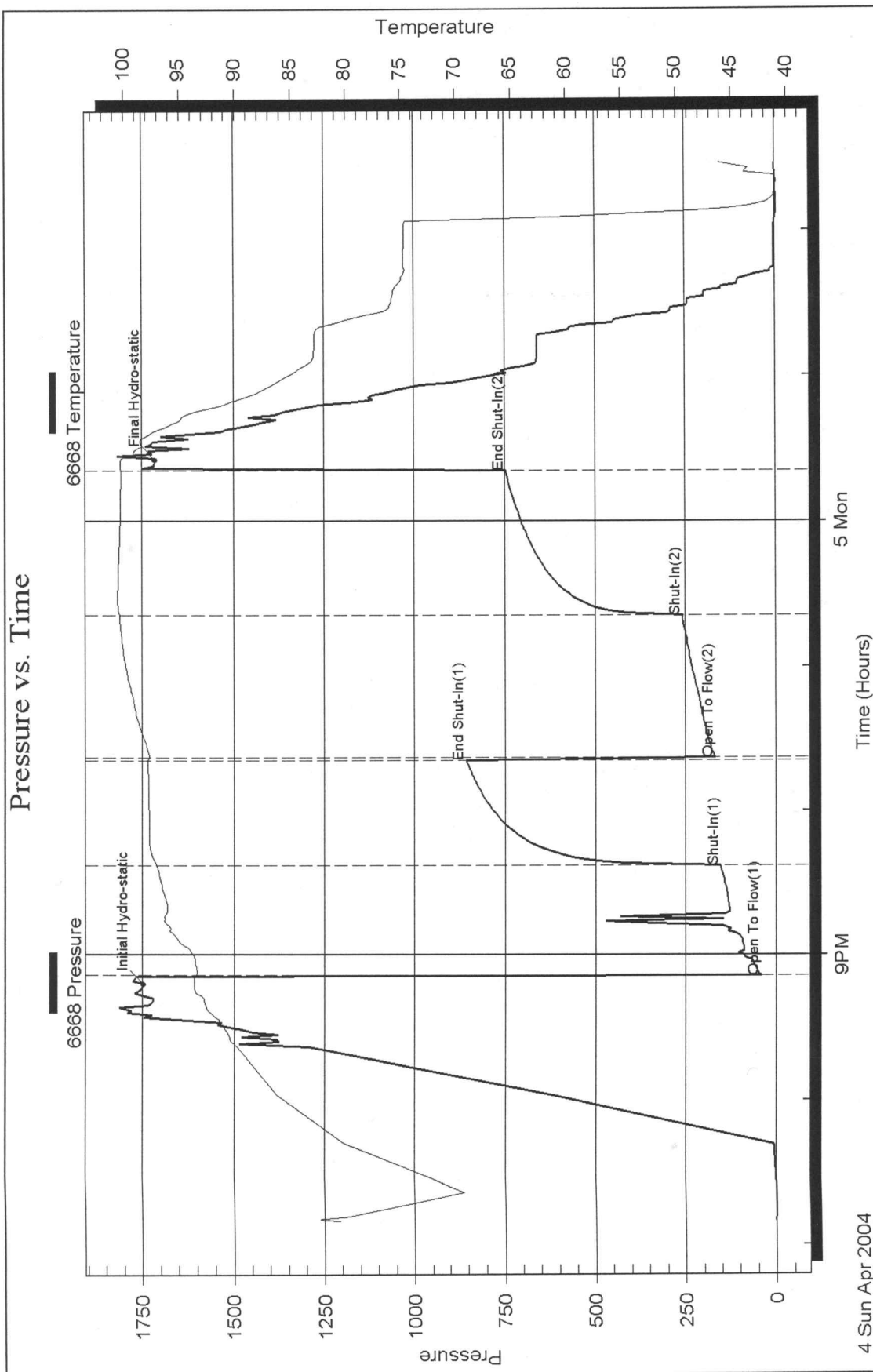
Inside

Black Diamond Oil Inc

34-4s-22w Norton Ks

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

34-4s-22w Norton Ks

Harting #1

Start Date: 2004.04.05 @ 11:29:18

End Date: 2004.04.05 @ 18:29:47

Job Ticket #: 19409

DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Black Diamond Oil Inc

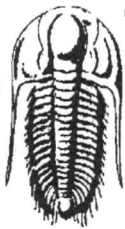
Harting #1

34-4s-22w Norton Ks

DST # 4

Gorham sd

2004.04.05



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Black Diamond Oil Inc

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

Harting #1

34-4s-22w Norton Ks

Job Ticket: 19409

DST#: 4

Test Start: 2004.04.05 @ 11:29:18

GENERAL INFORMATION:

Formation: **Gorham sd**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:06:17

Time Test Ended: 18:29:47

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3645.00 ft (KB) To 3667.00 ft (KB) (TVD)**

Total Depth: 3667.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2234.00 ft (KB)

2226.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6668

Inside

Press@RunDepth: 50.41 psig @ 3646.01 ft (KB)

Start Date: 2004.04.05 End Date: 2004.04.05

Start Time: 11:29:18 End Time: 18:29:47

Capacity: 7000.00 psig

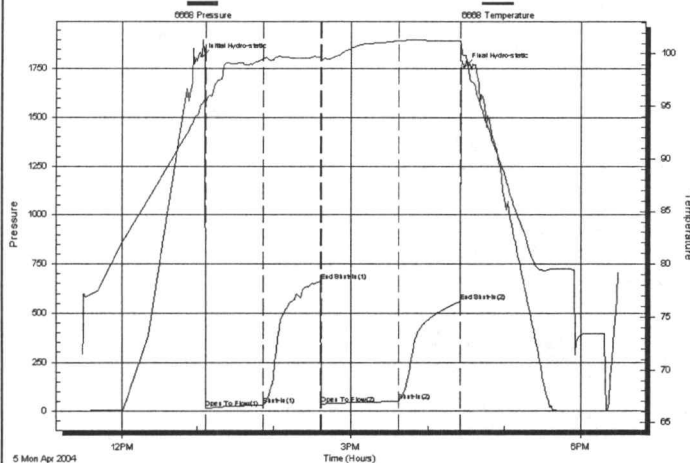
Last Calib.: 2004.04.05

Time On Btm: 2004.04.05 @ 13:03:17

Time Off Btm: 2004.04.05 @ 16:28:47

TEST COMMENT: IFP-w k bl thru-out 1/4"to 2"bl
FFP-w k bl thru-out 1/4"to 3"bl
Times 45-45-60-45
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1812.62	95.21	Initial Hydro-static
3	14.17	95.53	Open To Flow (1)
49	32.06	99.54	Shut-In(1)
93	660.70	99.72	End Shut-In(1)
94	36.73	99.45	Open To Flow (2)
154	50.41	101.24	Shut-In(2)
202	557.22	101.24	End Shut-In(2)
206	1762.01	99.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	CO	0.04
82.00	WM 40%water 60%mud w/show of oil	1.15
0.00	RW .32@77F	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc

Harting #1

P O Box 461
Hays Ks 67601

34-4s-22w Norton Ks

Job Ticket: 19409

DST#:4

ATTN: Ken Vihige

Test Start: 2004.04.05 @ 11:29:18

Tool Information

Drill Pipe:	Length: 3641.00 ft	Diameter: 3.80 inches	Volume: 51.07 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 51.07 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3645.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.02 ft			
Tool Length:	43.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3625.00	
Shut In Tool	5.00			3630.00	
Hydraulic tool	5.00			3635.00	
Packer	5.00			3640.00	21.00 Bottom Of Top Packer
Packer	5.00			3645.00	
Stubb	1.00			3646.00	
Recorder	0.01	6668	Inside	3646.01	
Perforations	18.00			3664.01	
Recorder	0.01	11085	Outside	3664.02	
Bullnose	3.00			3667.02	22.02 Bottom Packers & Anchor
Total Tool Length:	43.02				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Inc

Harting #1

P O Box 461
Hays Ks 67601

34-4s-22w Norton Ks

Job Ticket: 19409

DST#: 4

ATTN: Ken Vihige

Test Start: 2004.04.05 @ 11:29:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	CO	0.042
82.00	WM 40%water 60%mud w/show of oil	1.150
0.00	RW .32@77F	0.000

Total Length: 85.00 ft Total Volume: 1.192 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

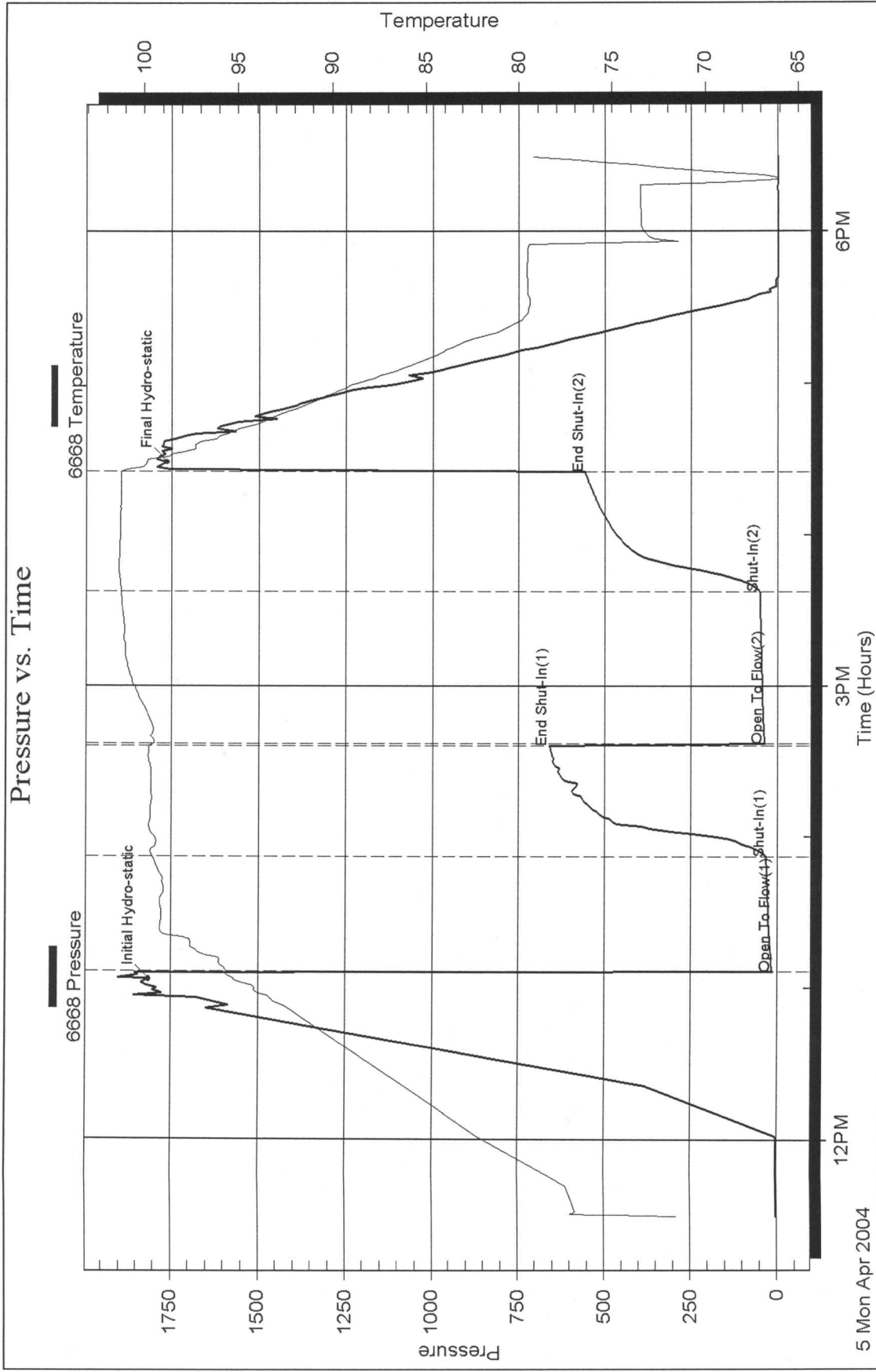
Serial #: 6668

Inside

Black Diamond Oil Inc

34-4s-22w Norton Ks

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

34-4s-22w Norton Ks

Harting #1

Start Date: 2004.04.05 @ 23:13:46

End Date: 2004.04.06 @ 04:52:15

Job Ticket #: 19410

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

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

Harting #1

34-4s-22w Norton Ks

Job Ticket: 19410

DST#: 5

Test Start: 2004.04.05 @ 23:13:46

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:42:15

Time Test Ended: 04:52:15

Test Type: Conventional Straddle

Tester: Ray Schwager

Unit No: 28

Interval: **3426.00 ft (KB) To 3481.00 ft (KB) (TVD)**

Total Depth: 3666.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2234.00 ft (KB)

2226.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6668

Inside

Press@RunDepth: 26.99 psig @ 3441.01 ft (KB)

Start Date: 2004.04.05 End Date: 2004.04.06

Start Time: 23:13:46 End Time: 04:52:15

Capacity: 7000.00 psig

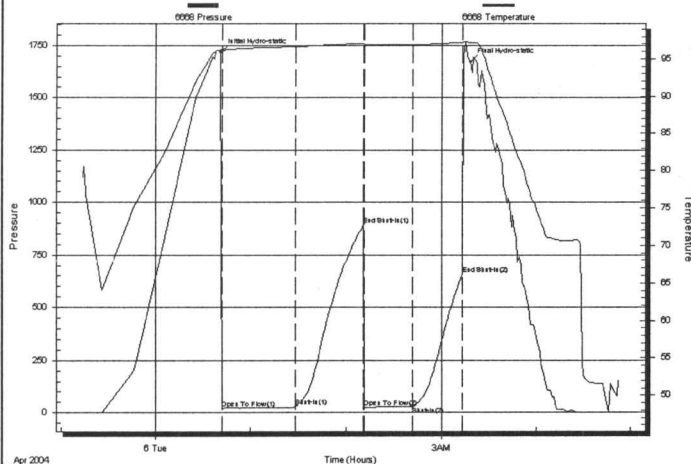
Last Calib.: 2004.04.06

Time On Btm: 2004.04.06 @ 00:41:15

Time Off Btm: 2004.04.06 @ 03:18:15

TEST COMMENT: IFP-w k bl thru-out 1/4" to 1/2" bl
FFP-surface bl, died in 15 min
Times 45-45-30-30

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.89	96.27	Initial Hydro-static
1	20.59	96.12	Open To Flow (1)
47	29.41	96.64	Shut-In(1)
90	889.14	97.04	End Shut-In(1)
90	24.94	96.87	Open To Flow (2)
121	26.99	96.90	Shut-In(2)
152	658.65	97.17	End Shut-In(2)
157	1670.68	97.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.14

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc

P O Box 461
Hays Ks 67601

ATTN: Ken Vihige

Harting #1

34-4s-22w Norton Ks

Job Ticket: 19410

DST#: 5

Test Start: 2004.04.05 @ 23:13:46

Tool Information

Drill Pipe:	Length:	3412.00 ft	Diameter:	3.80 inches	Volume:	47.86 bbl	Tool Weight:	2200.00 lb	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	80000.00 lb	
						Total Volume:	47.86 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft						String Weight: Initial	58000.00 lb	
Depth to Top Packer:	3426.00 ft						Final	58000.00 lb	
Depth to Bottom Packer:	3481.02 ft								
Interval between Packers:	55.02 ft								
Tool Length:	318.03 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	13.00			3440.00		
Change Over Sub	1.00			3441.00		
Recorder	0.01	6668	Inside	3441.01		
Blank Spacing	30.00			3471.01		
Change Over Sub	1.00			3472.01		
Recorder	0.01	11085	Outside	3472.02		
Perforations	5.00			3477.02		
Blank Off Sub	1.00			3478.02		
Blank Spacing	3.00			3481.02	55.02	Tool Interval
Packer	5.00			3486.02		
Stubb	1.00			3487.02		
Perforations	16.00			3503.02		
Change Over Sub	1.00			3504.02		
Recorder	0.01	13547	Below	3504.03		
Blank Spacing	216.00			3720.03		
Bullnose	3.00			3723.03	242.01	Bottom Packers & Anchor
Total Tool Length:		318.03				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil Inc

Harting #1

P O Box 461
Hays Ks 67601

34-4s-22w Norton Ks

Job Ticket: 19410

DST#: 5

ATTN: Ken Vihige

Test Start: 2004.04.05 @ 23:13:46

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: 69.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

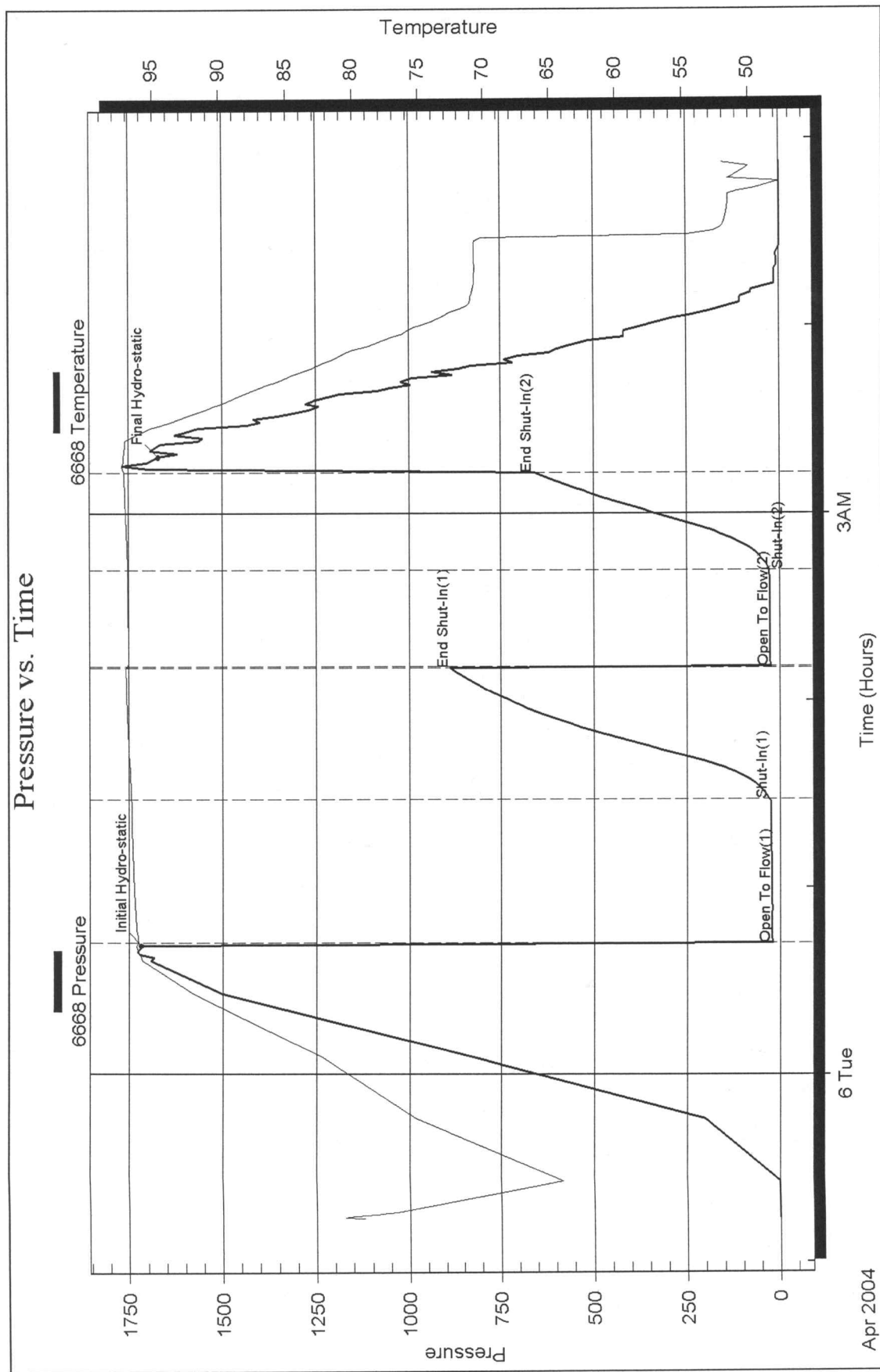
Num Gas Bombs: 0

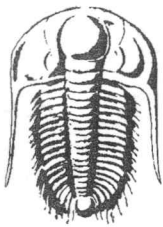
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19406

Test Ticket

Well Name & No. HARTING #1 Test No. 1 Date 4-3-64
Company BLACK DIAMOND OIL, INC. Zone Tested TORONTO
Address P.O. Box 461 HAYS, KS 67601 Elevation 2234 KB 2226 GL
Co. Rep / Geo. Ken Uehige Cont. Discovery rig 1 Est. Ft. of Pay - Por. - %
Location: Sec. 34 Twp. 4^s Rge. 22^w Co. NORTON State Ks
No. of Copies Reg Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 3368-3416 Initial Str Wt./Lbs. 52000 Unseated Str Wt./Lbs. 52000
Anchor Length 48 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000
Top Packer Depth 3363 Tool Weight 2200
Bottom Packer Depth 3368 Hole Size 7 7/8" Rubber Size 6 3/4"
Total Depth 3416 Wt. Pipe Run - Drill Collar Run -
Mud Wt. 9.2 LCM - Vis. 52 WL 8 Drill Pipe Size 4 1/2 XH Ft. Run 3362
Blow Description IFP-WEAK Blow thru-out 1/4" Blow
FFP-SURFACE Blow, flushed Tool, 1/4" Blow after flush

Recovery - Total Feet 15 GIP - Ft. in DC - Ft. in DP 15
Rec. 15 Feet of Mud %gas - %oil - %water - %mud -
Rec. - Feet of w/show of oil %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 1500 ppm System -

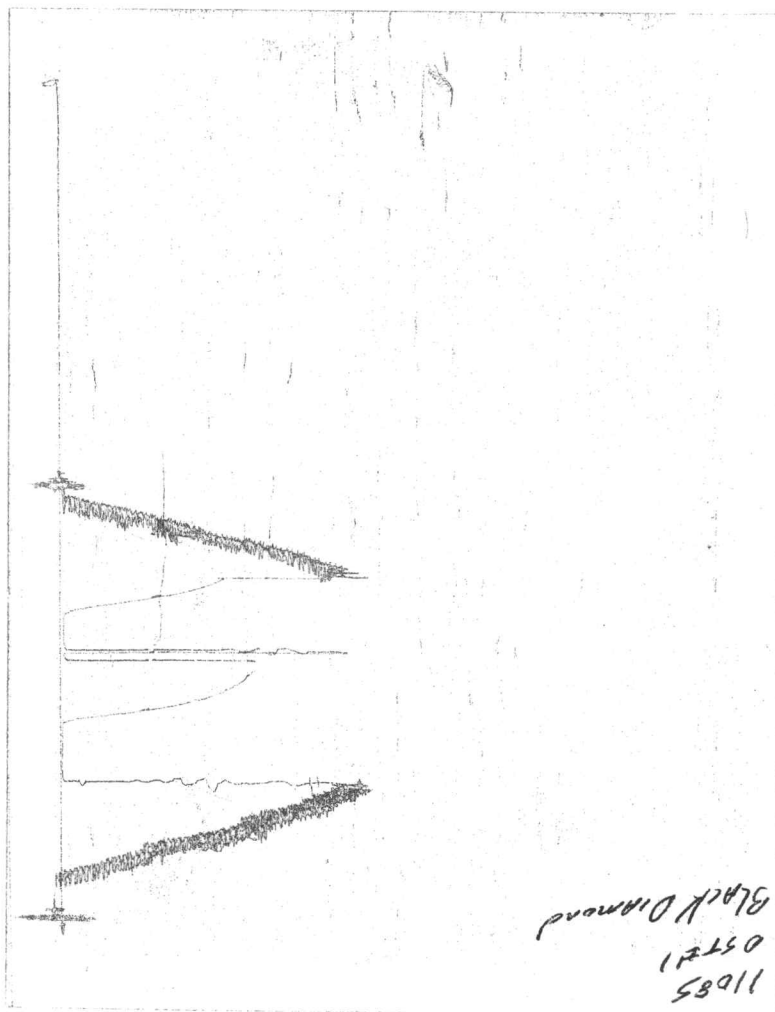
	AK-1	Alpine				
(A) Initial Hydrostatic Mud		<u>1637</u> PSI	Recorder No.	<u>6668</u>	Test	<u>700</u>
(B) First Initial Flow Pressure		<u>18</u> PSI	(depth)	<u>3382</u>	Elec. Rec.	<u>150</u>
(C) First Final Flow Pressure		<u>25</u> PSI	Recorder No.	<u>11085</u>	Jars	
(D) Initial Shut-In Pressure		<u>1145</u> PSI	(depth)	<u>3413</u>	Safety Jt.	
(E) Second Initial Flow Pressure		<u>22</u> PSI	Recorder No.	<u>-</u>	Circ Sub	
(F) Second Final Flow Pressure		<u>26</u> PSI	(depth)	<u>-</u>	Sampler	
(G) Final Shut-In Pressure		<u>964</u> PSI	Initial Opening	<u>45</u>	Straddle	
(Q) Final Hydrostatic Mud		<u>1605</u> PSI	Initial Shut-In	<u>45</u>	Ext. Packer	
			Final Flow	<u>30</u>	Shale Packer	
			Final Shut-In	<u>30</u>	Mileage	<u>88 one way 149.6</u>
			T-On Location	<u>0830</u>	Sub Total:	<u>99.6</u>
			T-Started	<u>0905</u>	Std. By	
			T-Open	<u>1040</u>	Other	
			T-Pulled	<u>1310</u>	Total:	
			T-Out	<u>1424</u>		

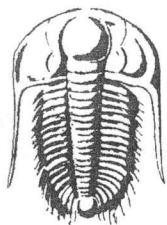
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Approved By Ray Schwager Thank you

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 19407

05/03

Test Ticket

Well Name & No. <u>HARTING #1</u>	Test No. <u>2</u>	Date <u>4-4-04</u>
Company <u>BLACK Diamond Oil Inc</u>	Zone Tested <u>LKC</u>	
Address <u>P.O. Box 461 Hays, Ko 67601</u>	Elevation <u>2234</u> KB <u>2226</u> GL	
Co. Rep / Geo. <u>Ken Uehige</u>	Cont. <u>Discovery rig 1</u>	Est. Ft. of Pay <u>-</u> Por. <u>-</u> %
Location: Sec. <u>34</u> Twp. <u>4^s</u> Rge. <u>22^w</u>	Co. <u>NORTON</u>	State <u>Ko</u>
No. of Copies <u>Reg</u>	Disbtribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested <u>3505 - 3595</u>	Initial Str Wt./Lbs. <u>-</u>	Unseated Str Wt/Lbs. <u>-</u>
Anchor Length <u>90</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>-</u>
Top Packer Depth <u>3500</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3505</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3595</u>	Wt. Pipe Run <u>-</u>	Drill Collar Run <u>-</u>
Mud Wt. <u>9.5</u> LCM <u>-</u> Vis. <u>50</u> WL <u>2.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3514</u>
Blow Description <u>IFP -</u>		
<u>FFP -</u>		

HIT Bridge approx. ~~1540'~~ + ~~1600'~~, would not go thru
MISRUN 1540' + 1600'

Recovery - Total Feet <u>-</u>	GIP <u>-</u>	Ft. in DC <u>-</u>	Ft. in DP <u>-</u>
Rec. <u>-</u>	Feet of <u>-</u>	%gas <u>-</u>	%oil <u>-</u> %water <u>-</u> %mud <u>-</u>
Rec. <u>-</u>	Feet of <u>-</u>	%gas <u>-</u>	%oil <u>-</u> %water <u>-</u> %mud <u>-</u>
Rec. <u>-</u>	Feet of <u>-</u>	%gas <u>-</u>	%oil <u>-</u> %water <u>-</u> %mud <u>-</u>
Rec. <u>-</u>	Feet of <u>-</u>	%gas <u>-</u>	%oil <u>-</u> %water <u>-</u> %mud <u>-</u>
Rec. <u>-</u>	Feet of <u>-</u>	%gas <u>-</u>	%oil <u>-</u> %water <u>-</u> %mud <u>-</u>
BHT <u>-</u> °F Gravity <u>-</u>	°API D @ <u>-</u>	°F Corrected Gravity <u>-</u>	°API <u>-</u>
RW <u>-</u> @ <u>-</u> °F	Chlorides <u>-</u> ppm Recovery <u>-</u>	Chlorides <u>2000</u> ppm System	

(A) Initial Hydrostatic Mud <u>-</u>	PSI <u>-</u>	Recorder No. <u>6668</u>	Test <u>✓</u> <u>500</u>
(B) First Initial Flow Pressure <u>-</u>	PSI <u>-</u>	(depth) <u>3510</u>	Elec. Rec. <u>✓</u> <u>150</u>
(C) First Final Flow Pressure <u>-</u>	PSI <u>-</u>	Recorder No. <u>11085</u>	Jars <u>-</u>
(D) Initial Shut-In Pressure <u>-</u>	PSI <u>-</u>	(depth) <u>3592</u>	Safety Jt. <u>-</u>
(E) Second Initial Flow Pressure <u>-</u>	PSI <u>-</u>	Recorder No. <u>-</u>	Circ Sub <u>-</u>
(F) Second Final Flow Pressure <u>-</u>	PSI <u>-</u>	(depth) <u>-</u>	Sampler <u>-</u>
(G) Final Shut-In Pressure <u>-</u>	PSI <u>-</u>	Initial Opening <u>-</u>	Straddle <u>-</u>
(Q) Final Hydrostatic Mud <u>-</u>	PSI <u>-</u>	Initial Shut-In <u>-</u>	Ext. Packer <u>-</u>
		Final Flow <u>-</u>	Shale Packer <u>-</u>
		Final Shut-In <u>-</u>	Mileage <u>✓</u> <u>46</u> <u>39.10</u>
		T-On Location <u>1215</u>	Sub Total: <u>689.10</u>
		T-Started <u>1241</u>	Std. By <u>-</u>
		T-Open <u>-</u>	Other <u>-</u>
		T-Pulled <u>-</u>	Total: <u>-</u>
		T-Out <u>-</u>	

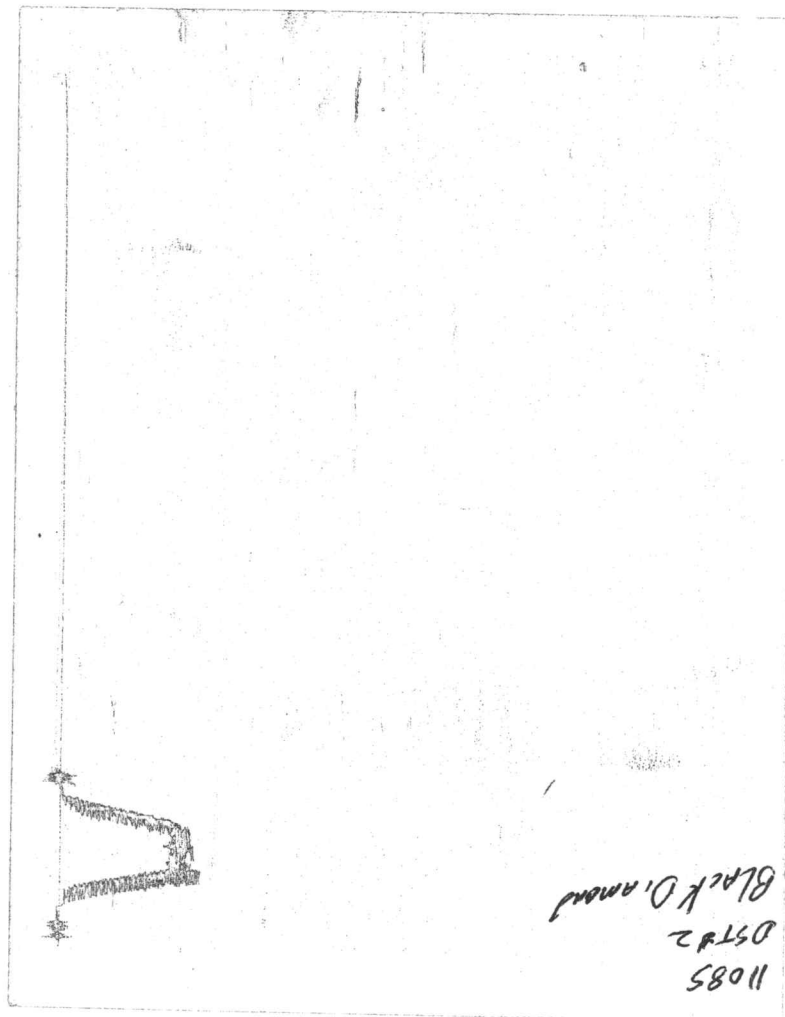
Approved By -

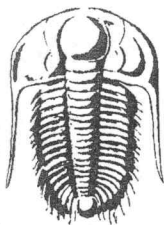
Our Representative Ray Schwager Thank you

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CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 19408

05/03

Test Ticket

Well Name & No. HARTING #1 Test No. 3 Date 4-4-04
 Company BLACK DIAMOND OIL INC Zone Tested LKC
 Address P.O. Box 461 Hays, Ks 67601 Elevation 2234 KB 2226 GL
 Co. Rep / Geo. Ken Uchige Cont. Discovery rig 1 Est. Ft. of Pay — Por. — %
 Location: Sec. 34 Twp. 4^s Rge. 22^w Co. NORTON State Ks
 No. of Copies Reg Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 3505-3595 Initial Str Wt./Lbs. 54000 Unseated Str Wt./Lbs. 56000
 Anchor Length 90 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 70000
 Top Packer Depth 3500 Tool Weight 2200
 Bottom Packer Depth 3505 Hole Size 7 7/8" — Rubber Size 6 3/4" —
 Total Depth 3595 Wt. Pipe Run — Drill Collar Run —
 Mud Wt. 9.5 LCM — Vis. 50 WL 2.2 Drill Pipe Size 4 1/2 XH Ft. Run 3514
 Blow Description IFP - WEAK TO STRONG IN 7 MIN
FFP - WEAK TO A GOOD BLOW 1/4" TO 8" BLOW
ISIP - NO BLOW
FSIP - NO BLOW

Recovery - Total Feet 490 GIP — Ft. in DC — Ft. in DP 490
 Rec. 190 Feet of WCM %gas — %oil 35 %water 65 %mud —
 Rec. 300 Feet of 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 100 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW .25 @ 50 °F Chlorides 42000 ppm Recovery — Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	Test
(B) First Initial Flow Pressure	1747	PSI	6668	700
(C) First Final Flow Pressure	42	PSI	3510	Elec. Rec. <u>✓</u> 150
(D) Initial Shut-In Pressure	153	PSI	11085	Jars <u>—</u>
(E) Second Initial Flow Pressure	854	PSI	3592	Safety Jt. <u>—</u>
(F) Second Final Flow Pressure	167	PSI	—	Circ Sub <u>—</u>
(G) Final Shut-In Pressure	257	PSI	—	Sampler <u>—</u>
(Q) Final Hydrostatic Mud	746	PSI	45	Straddle <u>—</u>
	1713	PSI	45	Ext. Packer <u>—</u>
			60	Shale Packer <u>—</u>
			60	Mileage <u>✓</u> <u>850</u>
			1845	Sub Total: <u>—</u>
			1909	Std. By <u>—</u>
			2050	Other <u>—</u>
			0020	Total: <u>—</u>
			0228	

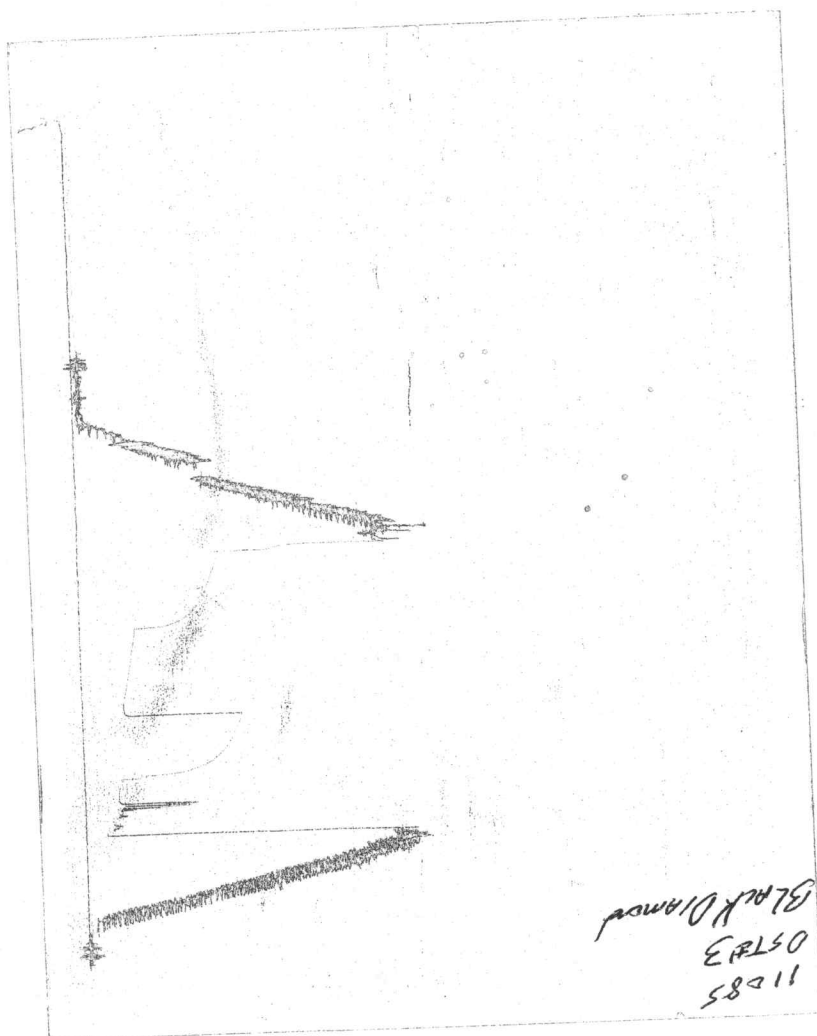
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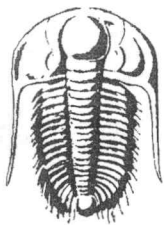
Approved By Ray Schwager Thank You

Our Representative Ray Schwager Thank You

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19409

05/03

Test Ticket

Well Name & No. <u>HARTING #1</u>	Test No. <u>4</u>	Date <u>4-5-04</u>
Company <u>Black Diamond O.I.L, Inc</u>	Zone Tested <u>Gorham SD</u>	
Address <u>P.O. Box 461 Hays, KS 67601</u>	Elevation <u>2234</u>	KB <u>2226</u> GL
Co. Rep / Geo. <u>Ken Uehige</u>	Cont. <u>Discovery rig 1</u>	Est. Ft. of Pay <u>-</u> Por. <u>-</u> %
Location: Sec. <u>34</u> Twp. <u>4S</u> Rge. <u>22W</u>	Co. <u>NORTON</u>	State <u>Ks</u>
No. of Copies <u>Reg</u>	Disbtribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested <u>3645-3667</u>	Initial Str Wt./Lbs. <u>57000</u>	Unseated Str Wt./Lbs. <u>57000</u>
Anchor Length <u>22</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>65000</u>
Top Packer Depth <u>3640</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3645</u>	Hole Size 7 7/8" <u>-</u>	Rubber Size 6 3/4" <u>-</u>
Total Depth <u>3667</u>	Wt. Pipe Run <u>-</u>	Drill Collar Run <u>-</u>
Mud Wt. <u>9.4</u> LCM <u>TR</u> Vis. <u>69</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3641</u>
Blow Description <u>IFP - WEAK Blow thru-out 1/4" to 2" Blow</u>		
<u>FFP - WEAK Blow thru-out 1/4" to 3" Blow</u>		
<u>No Blow on shut-in</u>		

Recovery - Total Feet <u>85</u>	GIP <u>-</u>	Ft. in DC <u>-</u>	Ft. in DP <u>85</u>
Rec. <u>3</u> Feet of <u>CO</u>	%gas	%oil	%water %mud
Rec. <u>82</u> Feet of <u>WM w/show of oil</u>	%gas	%oil	<u>40</u> %water <u>60</u> %mud
Rec. <u>-</u> Feet of <u>-</u>	%gas	%oil	%water %mud
Rec. <u>-</u> Feet of <u>-</u>	%gas	%oil	%water %mud
Rec. <u>-</u> Feet of <u>-</u>	%gas	%oil	%water %mud
BHT <u>101</u> °F Gravity <u>30</u>	°API D @ <u>60</u>	°F Corrected Gravity <u>30</u> °API	
RW <u>.32</u> @ <u>77</u> °F	Chlorides <u>19000</u> ppm	Recovery	Chlorides <u>2000</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1812</u> PSI		<u>6668</u>	<u>700</u>
(B) First Initial Flow Pressure	<u>14</u> PSI		<u>3646</u>	<u>150</u>
(C) First Final Flow Pressure	<u>32</u> PSI		<u>11085</u>	Jars
(D) Initial Shut-In Pressure	<u>660</u> PSI		<u>3664</u>	Safety Jt.
(E) Second Initial Flow Pressure	<u>36</u> PSI		<u>-</u>	Circ Sub
(F) Second Final Flow Pressure	<u>50</u> PSI		<u>-</u>	Sampler
(G) Final Shut-In Pressure	<u>557</u> PSI	Initial Opening	<u>45</u>	Straddle
(Q) Final Hydrostatic Mud	<u>1762</u> PSI	Initial Shut-In	<u>45</u>	Ext. Packer
		Final Flow	<u>60</u>	Shale Packer
		Final Shut-In	<u>45</u>	Mileage <u>✓ 23 mi way 39.10</u>
		T-On Location	<u>1100</u>	Sub Total: <u>889.10</u>
		T-Started	<u>1129</u>	Std. By
		T-Open	<u>1305</u>	Other
		T-Pulled	<u>1620</u>	Total:
		T-Out	<u>1829</u>	

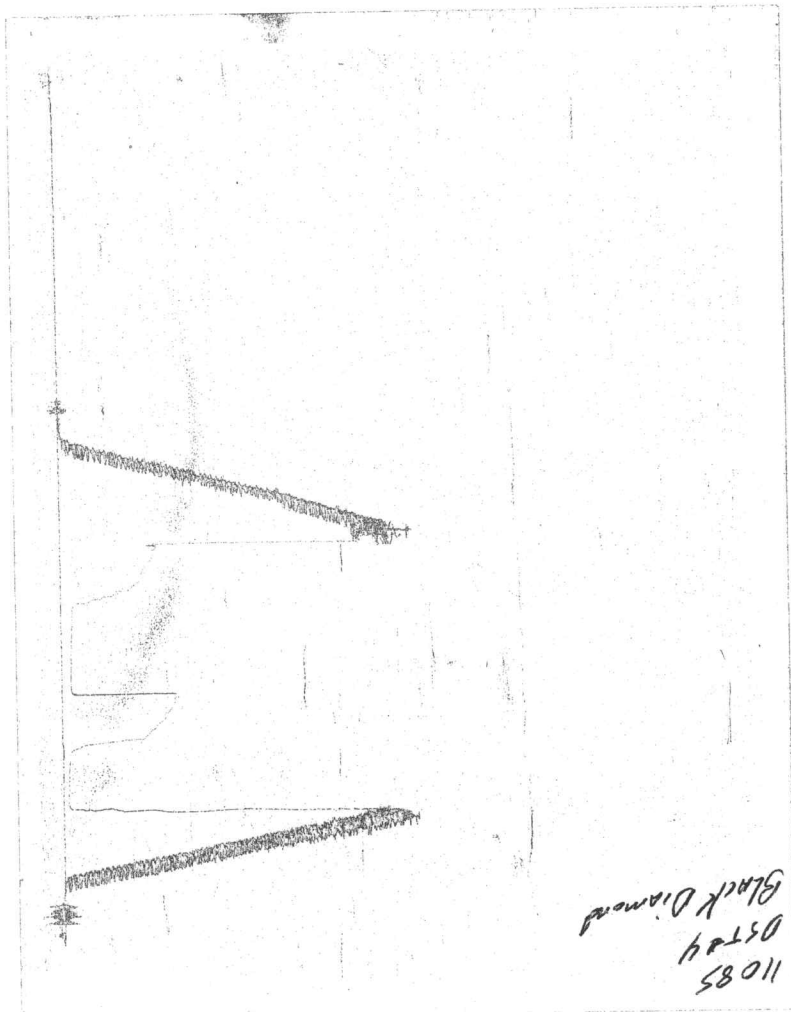
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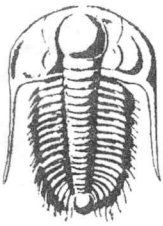
Approved By _____

Our Representative RAY SCHWAGER THANK YOU

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 19410

05/03

Test Ticket

Well Name & No. <u>HARTING #1</u>	Test No. <u>5</u>	Date <u>4-5-04</u>
Company <u>BLACK DIAMOND OIL INC</u>	Zone Tested <u>LKC</u>	
Address <u>PO Box 461 Hays, KS 67601</u>	Elevation <u>2234</u>	KB <u>2226</u> GL
Co. Rep / Geo. <u>Ken Uehige</u>	Cont. <u>Discovery rig 1</u>	Est. Ft. of Pay <u>-</u> Por. <u>-</u> %
Location: Sec. <u>34</u> Twp. <u>45</u>	Rge. <u>22^W</u>	Co. <u>NORTON</u> State <u>Ks</u>
No. of Copies <u>Reg</u>	Disbtribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested <u>3426-3484</u>	Initial Str Wt./Lbs. <u>58000</u>	Unseated Str Wt./Lbs. <u>58000</u>
Anchor Length <u>55</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>80000</u>
Top Packer Depth <u>3426-3421</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3481</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3666</u>	Wt. Pipe Run <u>-</u>	Drill Collar Run <u>-</u>
Mud Wt. <u>9.4</u> LCM <u>TR</u> Vis. <u>69</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>3412</u>
Blow Description <u>IFP - WEAK Blow thru-out 1/4" to 1/2" Blow</u> <u>FFP - SURFACE Blow, died in 15 min</u>		

Recovery - Total Feet <u>10</u>	GIP <u>-</u>	Ft. in DC <u>-</u>	Ft. in DP <u>10</u>
Rec. <u>10</u>	Feet of <u>Mud</u>	%gas	%oil
Rec. <u>-</u>	Feet of <u>-</u>	%gas	%oil
Rec. <u>-</u>	Feet of <u>-</u>	%gas	%oil
Rec. <u>-</u>	Feet of <u>-</u>	%gas	%oil
Rec. <u>-</u>	Feet of <u>-</u>	%gas	%oil
BHT <u>97</u>	°F Gravity <u>-</u>	°API D @ <u>-</u>	°F Corrected Gravity <u>-</u> °API
RW <u>-</u>	@ <u>-</u> °F	Chlorides <u>-</u> ppm Recovery	Chlorides <u>2000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1716	PSI	Recorder No.	6668	Test	700
(B) First Initial Flow Pressure			20	PSI	(depth)	3441	Elec. Rec.	150
(C) First Final Flow Pressure			29	PSI	Recorder No.	11085	Jars	
(D) Initial Shut-In Pressure			889	PSI	(depth)	3472	Safety Jt.	
(E) Second Initial Flow Pressure			24	PSI	Recorder No.	13547	Circ Sub	
(F) Second Final Flow Pressure			26	PSI	(depth)	3499	Sampler	
(G) Final Shut-In Pressure			658	PSI	Initial Opening	45	Straddle	250
(Q) Final Hydrostatic Mud			1670	PSI	Initial Shut-In	45	Ext. Packer	150
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.					Final Flow	30	Shale Packer	
					Final Shut-In	30	Mileage	236000 3910
					T-On Location	2300	Sub Total:	1289.10
					T-Started	2313	Std. By	
					T-Open	0115	Other	
					T-Pulled	0345	Total:	
					T-Out	05		

Approved By _____

Our Representative RAY SCHWAGER THANK YOU

CHART PAGE

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

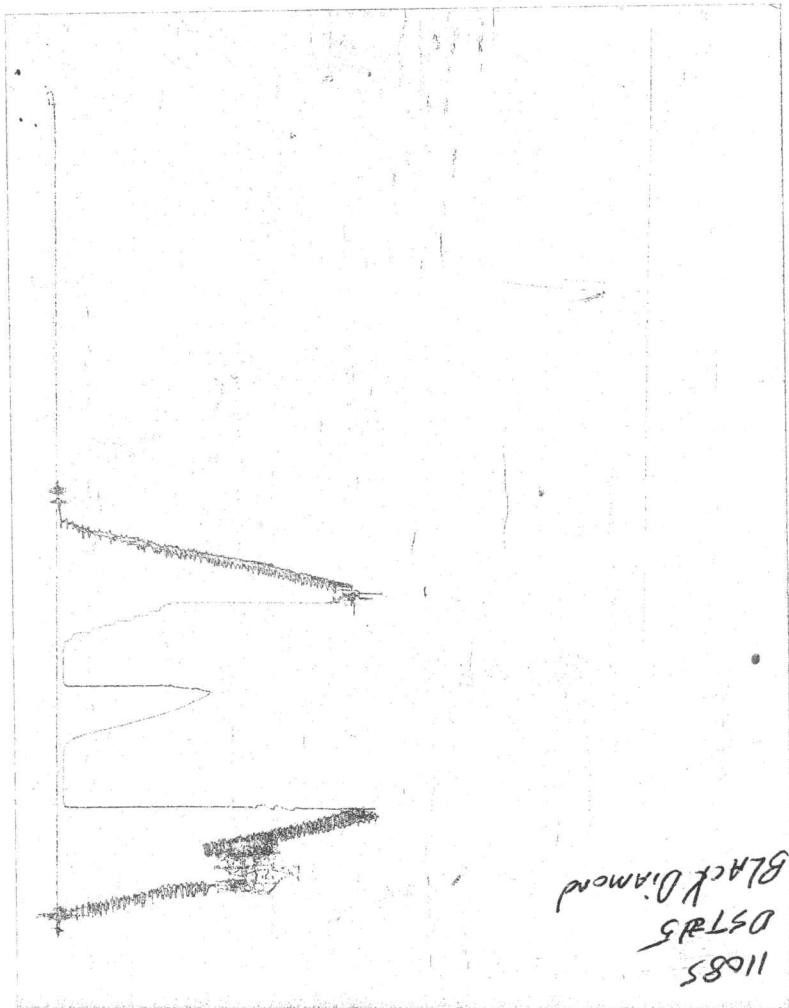
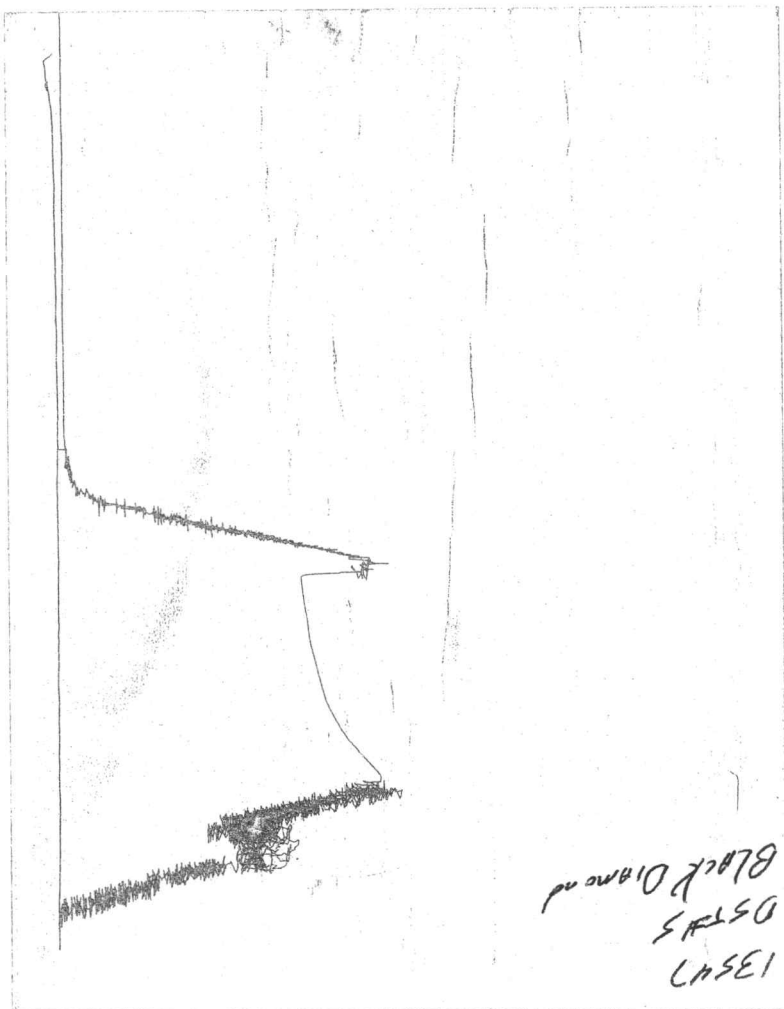
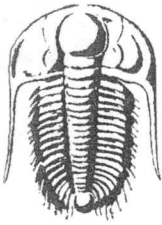


CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 19411

05/03

Test Ticket

Well Name & No.	<u>HARTing #1</u>	Test No.	<u>6</u>	Date	<u>4-6-04</u>
Company	<u>BLACK Diamond Oil, Inc</u>	Zone Tested	<u>Arbuckle</u>		
Address	<u>P.O. Box 461 Hays, Ks 67601</u>	Elevation	<u>2234</u>	KB	<u>2226</u> GL
Co. Rep / Geo.	<u>Ken Dehige</u>	Cont.	<u>Discovery rig 1</u>	Est. Ft. of Pay	<u>-</u> Por. <u>-</u> %
Location: Sec.	<u>34</u>	Twp.	<u>4'</u>	Rge.	<u>22^w</u> Co. <u>NORTON</u> State <u>Ks</u>
No. of Copies	<u>Reg</u>	Disbtribution Sheet (Y, N)	<u>-</u>	Turnkey (Y, N)	<u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested	<u>3657-3685</u>	Initial Str Wt./Lbs.	<u>56000</u>	Unseated Str Wt./Lbs.	<u>56000</u>
Anchor Length	<u>28</u>	Wt. Set Lbs.	<u>25000</u>	Wt. Pulled Loose/Lbs.	<u>65000</u>
Top Packer Depth	<u>3652</u>	Tool Weight	<u>2200</u>		
Bottom Packer Depth	<u>3657</u>	Hole Size 7 7/8"	<u>-</u>	Rubber Size 6 3/4"	<u>-</u>
Total Depth	<u>3685</u>	Wt. Pipe Run	<u>-</u>	Drill Collar Run	<u>-</u>
Mud Wt.	<u>9.4</u>	LCM	<u>TR</u>	Vis.	<u>68</u> WL <u>7.2</u>
Drill Pipe Size	<u>4 1/2 X 11</u>	Ft. Run	<u>3641</u>		
Blow Description	<u>TFP - WEAK Blow thru-out 1/4" to 1" Blow</u> <u>TFP -</u>				

Recovery - Total Feet	<u>45</u>	GIP	<u>-</u>	Ft. in DC	<u>-</u>	Ft. in DP	<u>45</u>
Rec.	<u>45</u>	Feet of	<u>WM</u>	%gas	<u>-</u>	%oil	<u>30</u>
Rec.		Feet of	<u>w/slow goil</u>	%gas	<u>-</u>	%oil	<u>70</u>
Rec.		Feet of		%water	<u>-</u>	%mud	<u>-</u>
Rec.		Feet of		%gas	<u>-</u>	%oil	<u>-</u>
Rec.		Feet of		%water	<u>-</u>	%mud	<u>-</u>
Rec.		Feet of		%gas	<u>-</u>	%oil	<u>-</u>
Rec.		Feet of		%water	<u>-</u>	%mud	<u>-</u>
BHT	<u>95</u>	°F Gravity	<u>-</u>	°API D @	<u>-</u>	°F Corrected Gravity	<u>-</u>
RW	<u>.32</u>	@	<u>77</u>	°F	Chlorides	<u>19000</u>	ppm Recovery
					Chlorides	<u>2000</u>	ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1814	PSI	Recorder No.	6668	Test	✓	700
(B) First Initial Flow Pressure			15	PSI	(depth)	3658	Elec. Rec.	✓	150
(C) First Final Flow Pressure			34	PSI	Recorder No.	11085	Jars		
(D) Initial Shut-In Pressure			343	PSI	(depth)	3682	Safety Jt.		
(E) Second Initial Flow Pressure			-	PSI	Recorder No.	-	Circ Sub		
(F) Second Final Flow Pressure			-	PSI	(depth)	-	Sampler		
(G) Final Shut-In Pressure			-	PSI	Initial Opening	#5 30	Straddle		
(Q) Final Hydrostatic Mud			1766	PSI	Initial Shut-In	#5 30	Ext. Packer		
					Final Flow	-	Shale Packer		
					Final Shut-In	-	Mileage	✓ N/A	
					T-On Location	1200	Sub Total:		850
					T-Started	1222	Std. By		
					T-Open	1405	Other		
					T-Pulled	1505	Total:		
					T-Out	1639			

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Approved By _____

Our Representative Ray Schwager Thank you

CHART PAGE

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