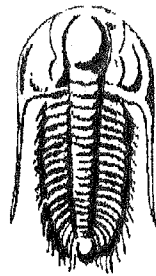


30-65-20w

15-163-23745-00-00  
KGS



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

**DRILL STEM TEST REPORT**

Prepared For: **Black Diamond Oil Inc**

Box 641  
Hays Ks 67601

ATTN: Kenneth Vehgie

**30 6 20 Rooks Ks**

**States # 1**

Start Date: 2008.08.13 @ 08:55:38

End Date: 2008.08.13 @ 15:42:08

Job Ticket #: 32859                      DST #: 1

RECEIVED  
KANSAS CORPORATION COMMISSION  
FEB 05 2009  
CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil Inc

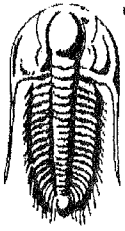
States # 1

30 6 20 Rooks Ks

DST # 1

Toronto /A

2008.08.13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32859

**DST#: 1**

ATTN: Kenneth Vehgie

Test Start: 2008.08.13 @ 08:55:38

## GENERAL INFORMATION:

Formation: **Toronto /A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:40:38

Time Test Ended: 15:42:08

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3474.00 ft (KB) To 3542.00 ft (KB) (TVD)**

Reference Elevations: 2305.00 ft (KB)

Total Depth: 3542.00 ft (KB) (TVD)

2297.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8372 Inside**

Press@RunDepth: 112.48 psig @ 3481.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2008.08.13

End Date: 2008.08.13

Last Calib.: 2008.08.13

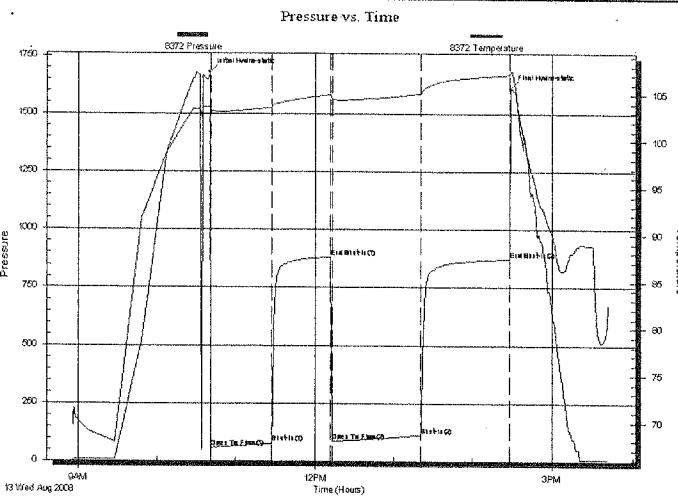
Start Time: 08:55:39

End Time: 15:42:08

Time On Btm: 2008.08.13 @ 10:40:08

Time Off Btm: 2008.08.13 @ 14:28:08

TEST COMMENT: IF Weak building to 4 1/2"  
FF Weak steady surface blow



## PRESSURE SUMMARY

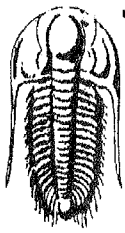
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.28	103.72	Initial Hydro-static
1	58.68	102.94	Open To Flow (1)
47	77.02	103.60	Shut-In(1)
92	881.31	104.97	End Shut-In(1)
93	84.63	104.53	Open To Flow (2)
161	112.48	105.11	Shut-In(2)
228	873.31	107.09	End Shut-In(2)
228	1612.21	107.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mdly Wtr	0.78
125.00	DM	1.75

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32859

**DST#: 1**

ATTN: Kenneth Vehgie

Test Start: 2008.08.13 @ 08:55:38

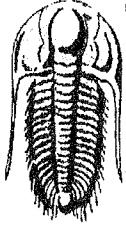
### Tool Information

Drill Pipe:	Length: 3428.00 ft	Diameter: 3.80 inches	Volume: 48.09 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 48.24 bbl</u>	Tool Chased 14.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3474.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	89.00 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			3454.00	
Shut In Tool	5.00			3459.00	
Hydraulic tool	5.00			3464.00	
Packer	5.00			3469.00	21.00 Bottom Of Top Packer
Packer	5.00			3474.00	
Stubb	1.00			3475.00	
Perforations	5.00			3480.00	
Change Over Sub	1.00			3481.00	
Recorder	0.00	8372	Inside	3481.00	
Recorder	0.00	8368	Outside	3481.00	
Drill Pipe	31.00			3512.00	
Change Over Sub	1.00			3513.00	
Perforations	26.00			3539.00	
Bullnose	3.00			3542.00	68.00 Bottom Packers & Anchor

**Total Tool Length: 89.00**



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

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32859

**DST#: 1**

ATTN: Kenneth Vehgie

Test Start: 2008.08.13 @ 08:55:38

**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:

78000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
75.00	Mdy Wtr	0.779
125.00	DM	1.753

Total Length: 200.00 ft

Total Volume: 2.532 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

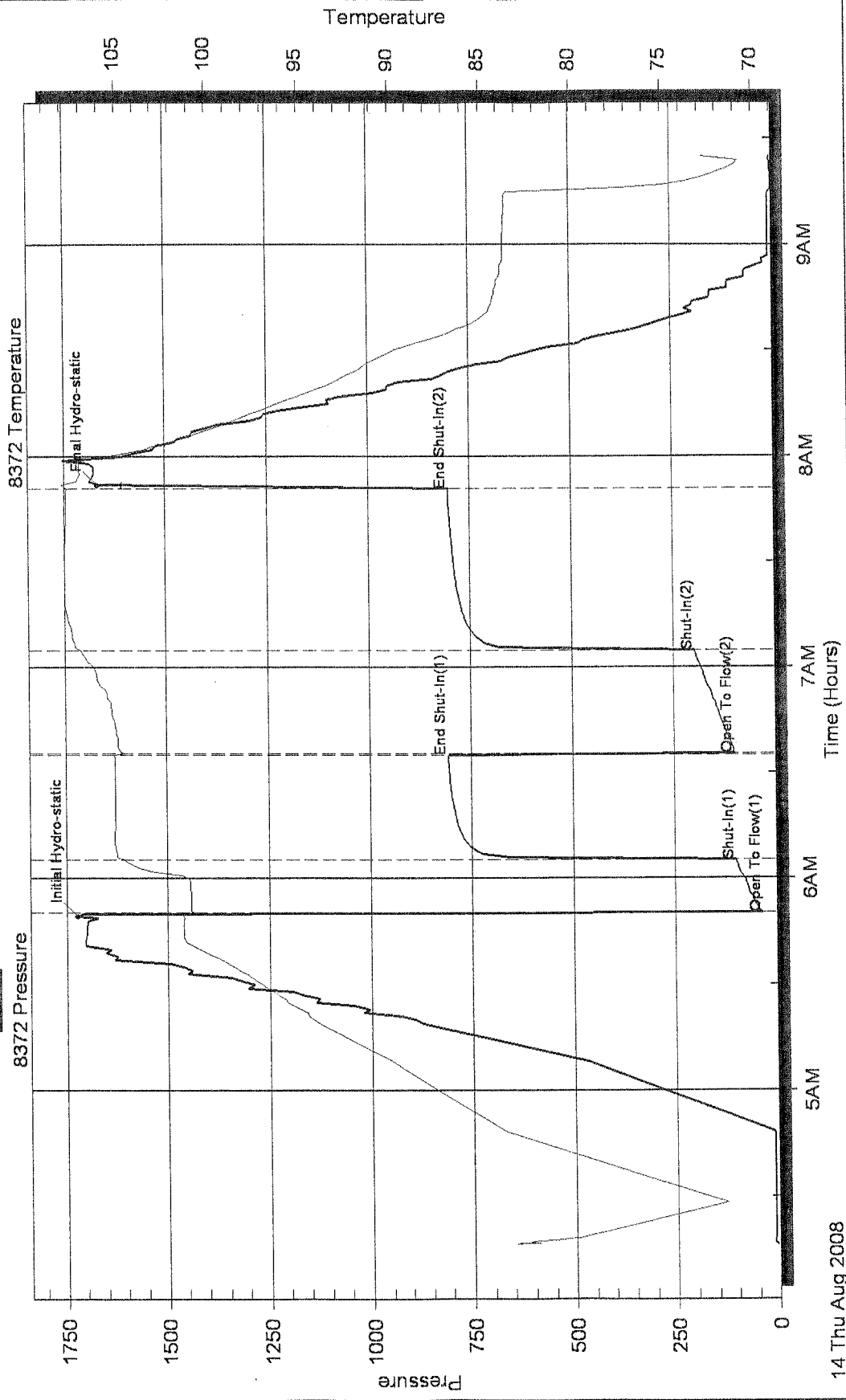
Serial #:

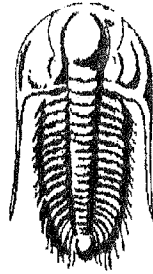
Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .20 @ 80 = 78000ppm

# Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

Box 641  
Hays Ks 67601

ATTN: Kenneth Vehgie

**30 6 20 Rooks Ks**

**States # 1**

Start Date: 2008.08.14 @ 04:16:13

End Date: 2008.08.14 @ 09:25:13

Job Ticket #: 32860                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil Inc

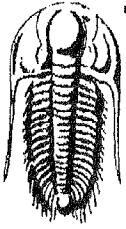
States # 1

30 6 20 Rooks Ks

DST # 2

C-D-E-F

2008.08.14



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

States # 1

Box 641  
Hays Ks 67601

30 6 20 Rooks Ks

ATTN: Kenneth Vehgie

Job Ticket: 32860

DST#: 2

Test Start: 2008.08.14 @ 04:16:13

## GENERAL INFORMATION:

Formation: C-D-E-F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:50:13

Time Test Ended: 09:25:13

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3547.00 ft (KB) To 3617.00 ft (KB) (TVD)

Total Depth: 3617.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2305.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8372 Inside

Press@RunDepth: 199.24 psig @ 3554.00 ft (KB)

Start Date: 2008.08.14 End Date: 2008.08.14

Start Time: 04:16:14 End Time: 09:25:13

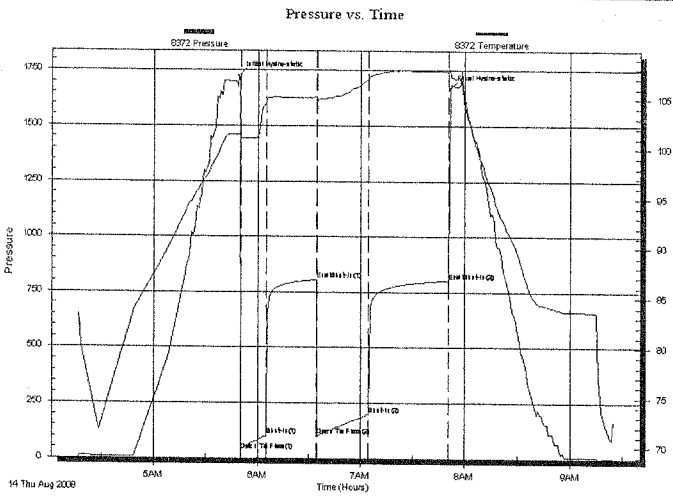
Capacity: 7000.00 psig

Last Calib.: 2008.08.14

Time On Btm: 2008.08.14 @ 05:49:13

Time Off Btm: 2008.08.14 @ 07:51:43

TEST COMMENT: IF Strong B-B in 11 min  
FF Strong B-B in 15 min



## PRESSURE SUMMARY

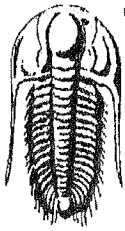
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.27	101.43	Initial Hydro-static
1	35.89	100.88	Open To Flow (1)
16	101.75	104.65	Shut-In(1)
46	805.28	105.17	End Shut-In(1)
46	103.10	104.58	Open To Flow (2)
76	199.24	106.98	Shut-In(2)
122	801.58	107.76	End Shut-In(2)
123	1667.50	108.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
245.00	Mdy Wtr	3.16
185.00	DM	2.60

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32860

**DST#: 2**

ATTN: Kenneth Vehgie

Test Start: 2008.08.14 @ 04:16:13

**Tool Information**

Drill Pipe:	Length: 3521.00 ft	Diameter: 3.80 inches	Volume: 49.39 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
		<b>Total Volume:</b>	<b>49.54 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3547.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

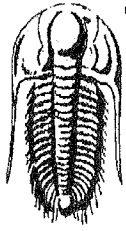
Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3527.00	
Shut In Tool	5.00			3532.00	
Hydraulic tool	5.00			3537.00	
Packer	5.00			3542.00	21.00 Bottom Of Top Packer
Packer	5.00			3547.00	
Stubb	1.00			3548.00	
Perforations	5.00			3553.00	
Change Over Sub	1.00			3554.00	
Recorder	0.00	8372	Inside	3554.00	
Recorder	0.00	8368	Outside	3554.00	
Drill Pipe	31.00			3585.00	
Change Over Sub	1.00			3586.00	
Perforations	28.00			3614.00	
Bullnose	3.00			3617.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 91.00**



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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32860

**DST#: 2**

ATTN: Kenneth Vehgie

Test Start: 2008.08.14 @ 04:16:13

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
245.00	Mdy Wtr	3.163
185.00	DM	2.595

Total Length: 430.00 ft

Total Volume: 5.758 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

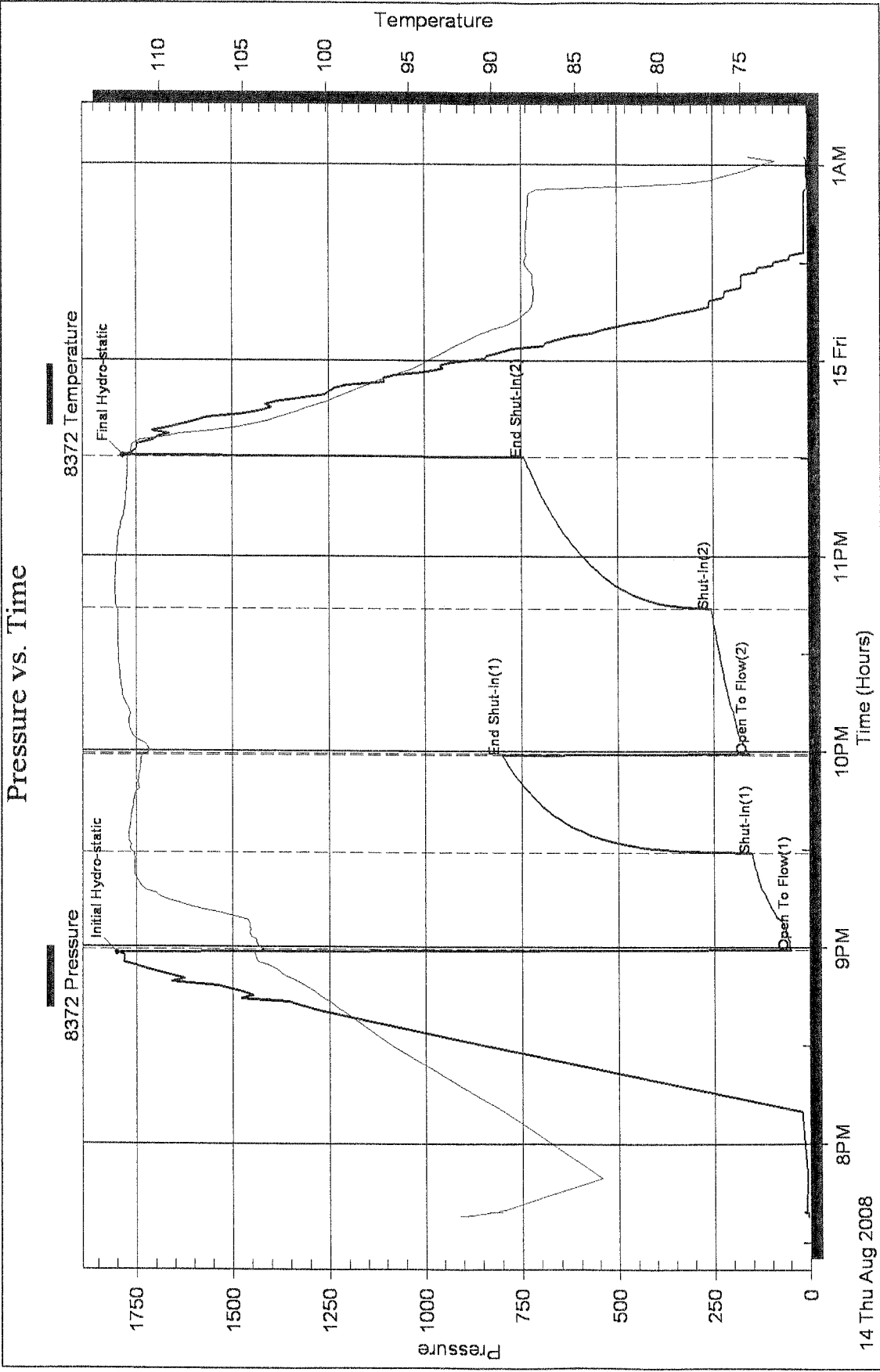
Serial #:

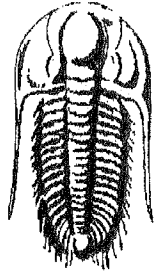
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

Box 641  
Hays Ks 67601

ATTN: Kenneth Vehgie

**30 6 20 Rooks Ks**

**States # 1**

Start Date: 2008.08.14 @ 19:37:44

End Date: 2008.08.15 @ 01:02:14

Job Ticket #: 32861                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil Inc

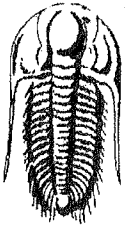
States # 1

30 6 20 Rooks Ks

DST # 3

J-K-1

2008.08.14



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

States # 1

Box 641  
Hays Ks 67601

30 6 20 Rooks Ks

Job Ticket: 32861

DST#: 3

ATTN: Kenneth Vehgie

Test Start: 2008.08.14 @ 19:37:44

## GENERAL INFORMATION:

Formation: J-K-L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:59:14

Time Test Ended: 01:02:14

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3679.00 ft (KB) To 3720.00 ft (KB) (TVD)

Total Depth: 3720.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2305.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8372

Inside

Press@RunDepth: 256.00 psig @ 3685.00 ft (KB)

Start Date: 2008.08.14 End Date: 2008.08.15

Start Time: 19:37:45 End Time: 01:02:14

Capacity: 7000.00 psig

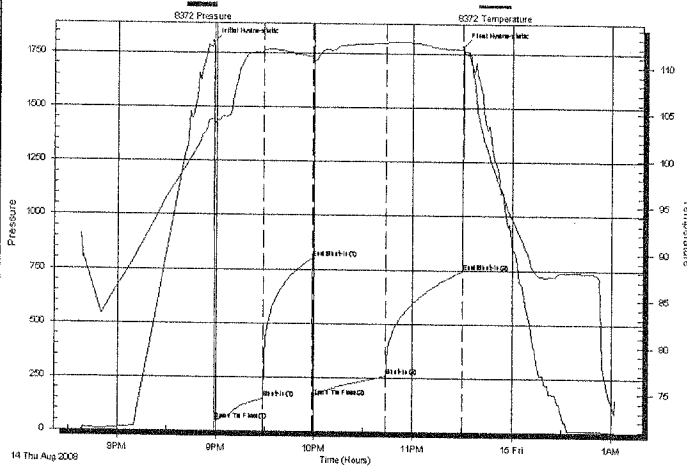
Last Calib.: 2008.08.15

Time On Btm: 2008.08.14 @ 20:58:14

Time Off Btm: 2008.08.14 @ 23:30:44

TEST COMMENT: IF Strong B-B in 14 min  
FF Strong B-B in 14 min

Pressure vs. Time



PRESSURE SUMMARY

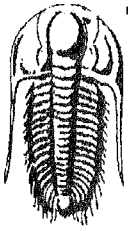
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1801.00	104.33	Initial Hydro-static
1	47.85	103.74	Open To Flow (1)
31	150.79	111.53	Shut-In(1)
61	799.93	111.10	End Shut-In(1)
61	157.67	110.73	Open To Flow (2)
106	256.00	112.56	Shut-In(2)
152	743.46	111.90	End Shut-In(2)
153	1784.40	112.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
375.00	Mdy Wtr	4.99
125.00	DM	1.75

Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32861

**DST#: 3**

ATTN: Kenneth Vehgie

Test Start: 2008.08.14 @ 19:37:44

**Tool Information**

Drill Pipe:	Length: 3650.00 ft	Diameter: 3.80 inches	Volume: 51.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 51.35 bbl		Tool Chased 8.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3679.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

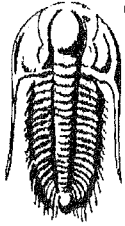
Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3659.00	
Shut In Tool	5.00			3664.00	
Hydraulic tool	5.00			3669.00	
Packer	5.00			3674.00	21.00 Bottom Of Top Packer
Packer	5.00			3679.00	
Stubb	1.00			3680.00	
Perforations	5.00			3685.00	
Recorder	0.00	8372	Inside	3685.00	
Recorder	0.00	8368	Outside	3685.00	
Perforations	32.00			3717.00	
Bullnose	3.00			3720.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32861

**DST#: 3**

ATTN: Kenneth Vehgie

Test Start: 2008.08.14 @ 19:37:44

## 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: 46.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
375.00	Mdy Wtr	4.987
125.00	DM	1.753

Total Length: 500.00 ft

Total Volume: 6.740 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

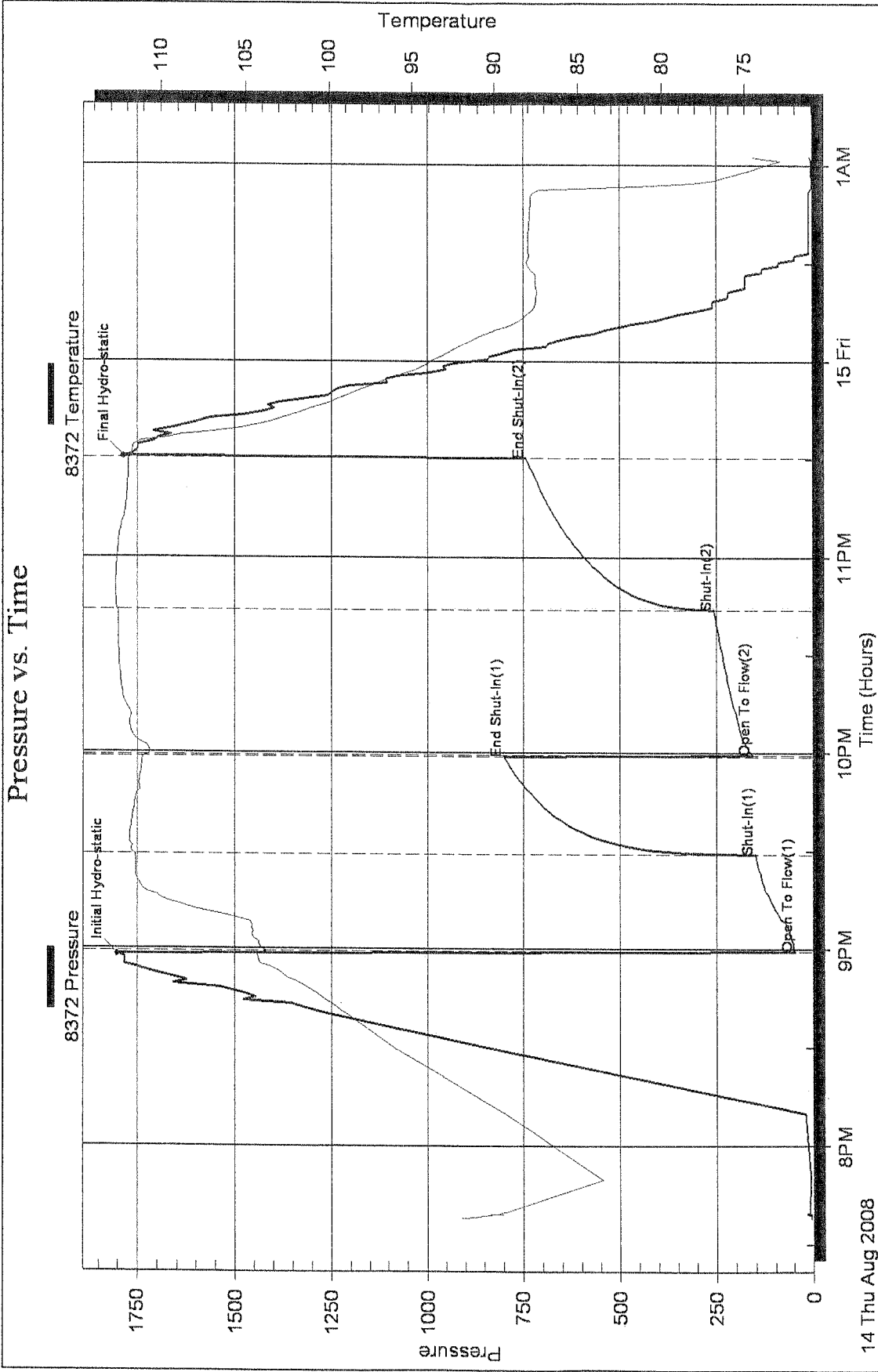
Serial #:

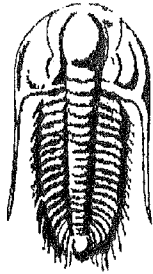
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

Box 641  
Hays Ks 67601

ATTN: Kenneth Vehgie

**30 6 20 Rooks Ks**

**States # 1**

Start Date: 2008.08.15 @ 09:17:02

End Date: 2008.08.15 @ 13:08:02

Job Ticket #: 32862                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil Inc

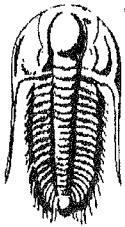
States # 1

30 6 20 Rooks Ks

DST # 4

Arbuckle

2008.08.15



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

States # 1

Box 641  
Hays Ks 67601

30 6 20 Rooks Ks

Job Ticket: 32862

DST#: 4

ATTN: Kenneth Vehgie

Test Start: 2008.08.15 @ 09:17:02

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:55:32

Time Test Ended: 13:08:02

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3755.00 ft (KB) To 3760.00 ft (KB) (TVD)**

Total Depth: 3542.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2305.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8372** Inside

Press@RunDepth: psig @ 3756.00 ft (KB)

Start Date: 2008.08.15

End Date:

2008.08.15

Capacity: 7000.00 psig

Last Calib.: 2008.08.15

Start Time: 09:17:03

End Time:

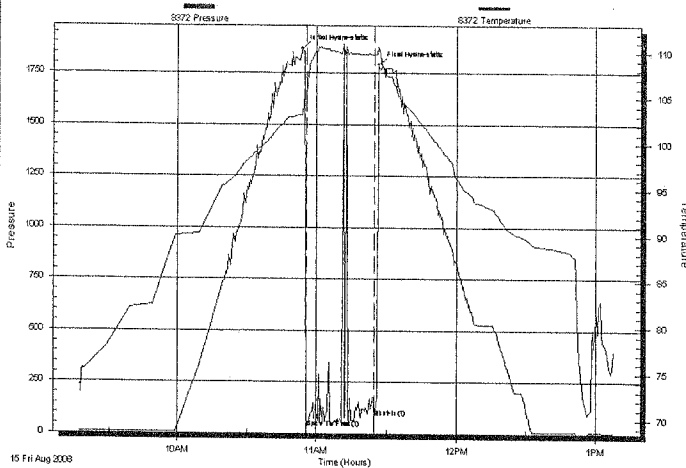
13:08:02

Time On Btm: 2008.08.15 @ 10:54:02

Time Off Btm: 2008.08.15 @ 11:26:32

TEST COMMENT: IF Weak surging blow flushed tool no surge blow died

Pressure vs. Time



## PRESSURE SUMMARY

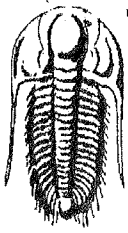
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1869.57	103.29	Initial Hydro-static
2	26.80	105.22	Open To Flow (1)
31	78.73	109.68	Shut-In(1)
33	1791.28	110.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (tbb)
30.00	DM	0.15

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc

States # 1

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32862

DST#: 4

ATTN: Kenneth Vehgie

Test Start: 2008.08.15 @ 09:17:02

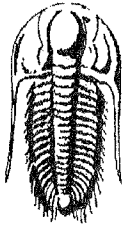
### Tool Information

Drill Pipe:	Length: 3712.00 ft	Diameter: 3.80 inches	Volume: 52.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 52.22 bbl		Tool Chased 5.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3755.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	26.00 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			3735.00	
Shut In Tool	5.00			3740.00	
Hydraulic tool	5.00			3745.00	
Packer	5.00			3750.00	21.00 Bottom Of Top Packer
Packer	5.00			3755.00	
Stubb	1.00			3756.00	
Recorder	0.00	8372	Inside	3756.00	
Recorder	0.00	8368	Outside	3756.00	
Perforations	1.00			3757.00	
Bullnose	3.00			3760.00	5.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>26.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32862

**DST#: 4**

ATTN: Kenneth Vehgie

Test Start: 2008.08.15 @ 09:17:02

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	DM	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

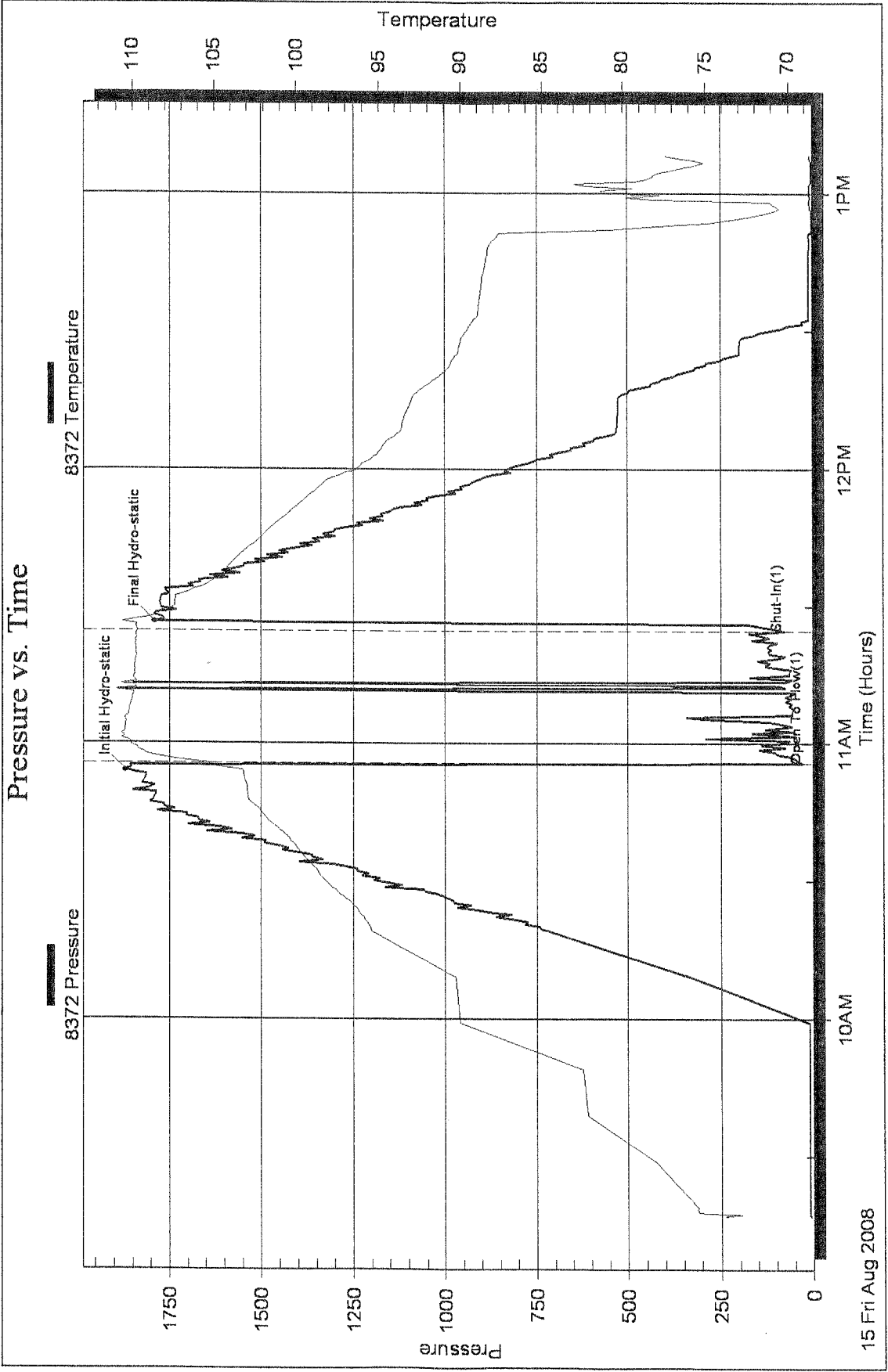
Num Gas Bombs: 0

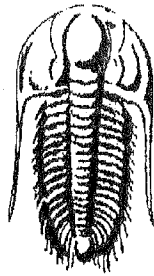
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

Box 641  
Hays Ks 67601

ATTN: Kenneth Vehgie

**30 6 20 Rooks Ks**

**States # 1**

Start Date: 2008.08.16 @ 00:05:03

End Date: 2008.08.16 @ 03:41:03

Job Ticket #: 32863                      DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil Inc

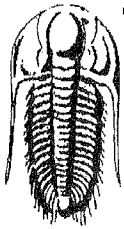
States # 1

30 6 20 Rooks Ks

DST # 5

Arbuckle

2008.08.16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc  
Box 641  
Hays Ks 67601  
ATTN: Kenneth Vehgie

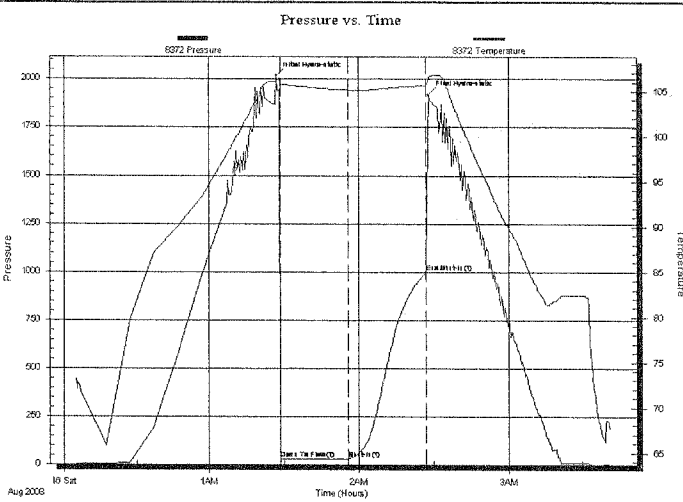
**States # 1**  
**30 6 20 Rooks Ks**  
Job Ticket: 32863      **DST#: 5**  
Test Start: 2008.08.16 @ 00:05:03

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 01:28:33  
Time Test Ended: 03:41:03  
Interval: **3742.00 ft (KB) To 3762.00 ft (KB) (TVD)**  
Total Depth: 3762.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Dan Bangle  
Unit No: 38  
Reference Elevations: 2305.00 ft (KB)  
2297.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8372      Inside**  
Press@RunDepth: 29.22 psig @ 3743.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2008.08.16      End Date: 2008.08.16      Last Calib.: 2008.08.16  
Start Time: 00:05:04      End Time: 03:41:03      Time On Btm: 2008.08.16 @ 01:27:03  
Time Off Btm: 2008.08.16 @ 02:28:03

TEST COMMENT: IF Weak surface blow



## PRESSURE SUMMARY

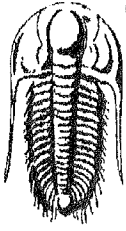
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2018.20	106.07	Initial Hydro-static
2	26.73	105.72	Open To Flow (1)
29	29.22	105.16	Shut-In(1)
60	998.73	105.66	End Shut-In(1)
61	1921.55	106.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	DM	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32863

**DST#: 5**

ATTN: Kenneth Vehgie

Test Start: 2008.08.16 @ 00:05:03

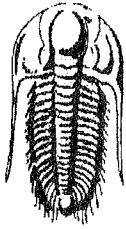
### Tool Information

Drill Pipe:	Length: 3714.00 ft	Diameter: 3.80 inches	Volume: 52.10 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<b>Total Volume: 52.25 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3742.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	41.00 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			3722.00	
Shut In Tool	5.00			3727.00	
Hydraulic tool	5.00			3732.00	
Packer	5.00			3737.00	21.00 Bottom Of Top Packer
Packer	5.00			3742.00	
Stubb	1.00			3743.00	
Recorder	0.00	8372	Inside	3743.00	
Recorder	0.00	8368	Outside	3743.00	
Perforations	16.00			3759.00	
Bullnose	3.00			3762.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Black Diamond Oil Inc

States # 1

Box 641  
Hays Ks 67601

30 6 20 Rooks Ks

Job Ticket: 32863

DST#: 5

ATTN: Kenneth Vehgie

Test Start: 2008.08.16 @ 00:05:03

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.97 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity:

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	DM	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

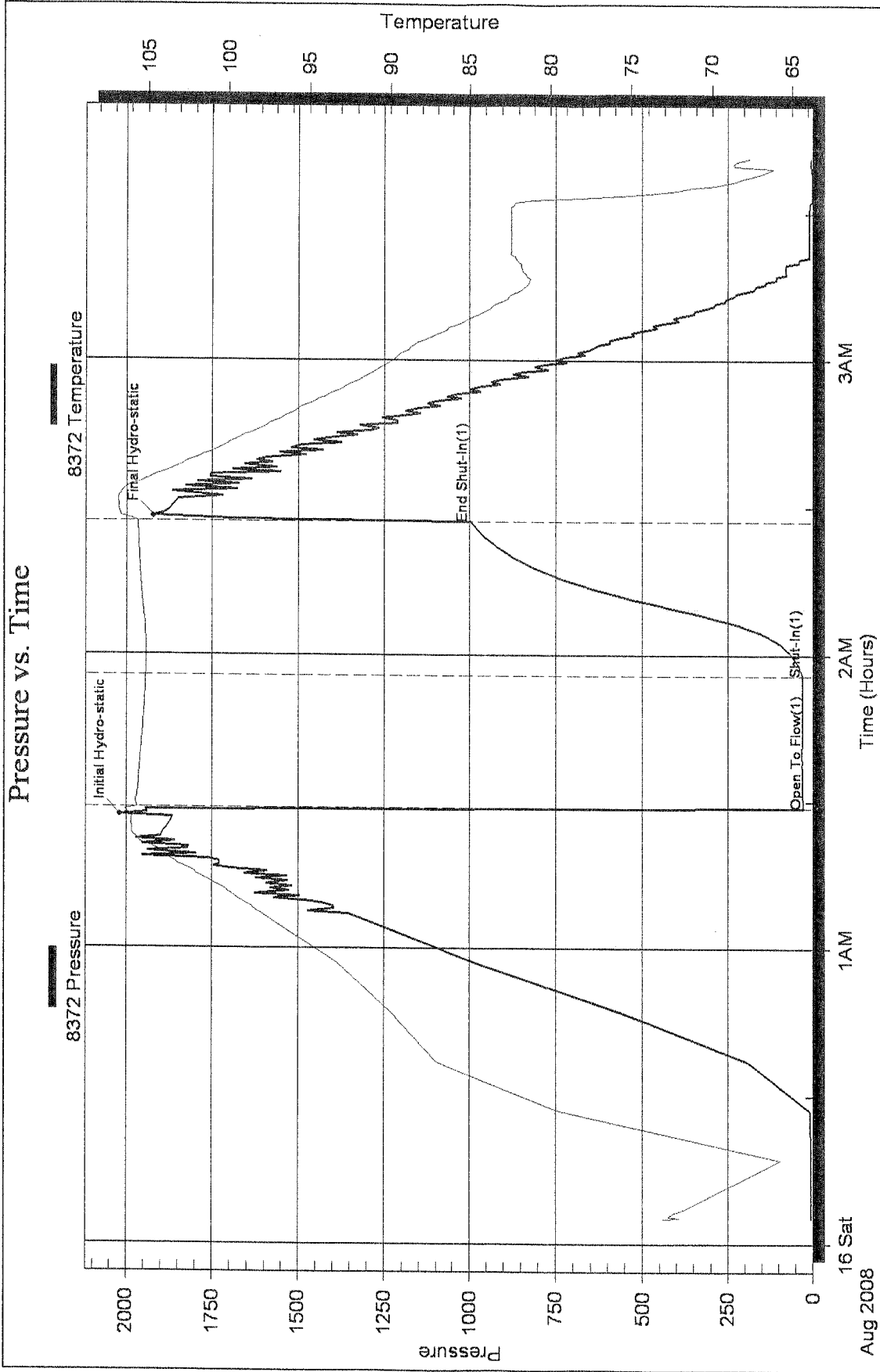
Num Gas Bombs: 0

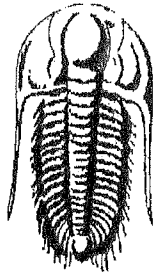
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

Box 641  
Hays Ks 67601

ATTN: Kenneth Vehgie

**30 6 20 Rooks Ks**

**States # 1**

Start Date: 2008.08.16 @ 08:12:15

End Date: 2008.08.16 @ 15:17:45

Job Ticket #: 32864                      DST #: 6

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Black Diamond Oil Inc

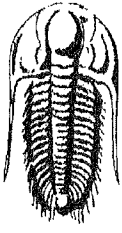
States # 1

30 6 20 Rooks Ks

DST # 6

Arbuckle

2008.08.16



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Black Diamond Oil Inc  
 Box 641  
 Hays Ks 67601  
 ATTN: Kenneth Vehgie

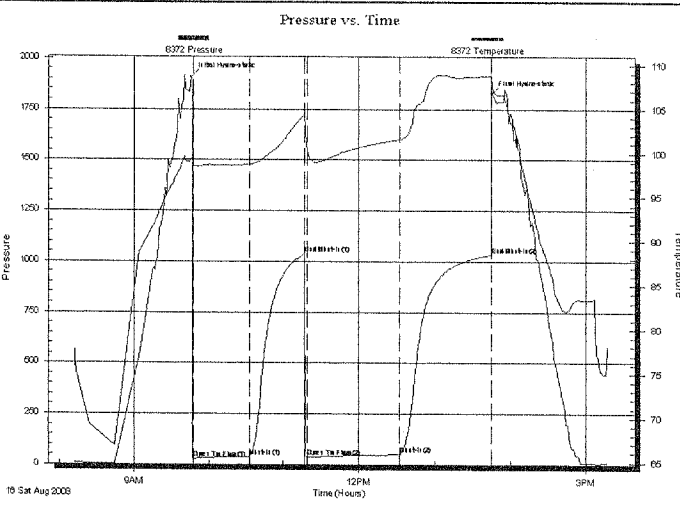
States # 1  
**30 6 20 Rooks Ks**  
 Job Ticket: 32864      **DST#: 6**  
 Test Start: 2008.08.16 @ 08:12:15

### GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 09:47:15  
 Time Test Ended: 15:17:45  
 Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 38  
 Interval: **3742.00 ft (KB) To 3767.00 ft (KB) (TVD)**  
 Total Depth: 3542.00 ft (KB) (TVD)  
 Reference Elevations: 2305.00 ft (KB)  
 2297.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 KB to GR/CF: 8.00 ft

**Serial #: 8372**      **Inside**  
 Press@RunDepth: 49.78 psig @ 3743.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2008.08.16      End Date: 2008.08.16      Last Calib.: 2008.08.16  
 Start Time: 08:12:16      End Time: 15:17:45      Time On Btm: 2008.08.16 @ 09:45:45  
 Time Off Btm: 2008.08.16 @ 13:45:15

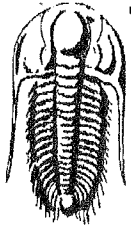
TEST COMMENT: IF Weak building to 3/4"  
 FF Weak steady surface blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1907.84	99.35	Initial Hydro-static
2	27.28	98.41	Open To Flow (1)
47	37.75	98.75	Shut-In (1)
91	1034.80	104.38	End Shut-In (1)
94	34.91	100.38	Open To Flow (2)
167	49.78	101.57	Shut-In (2)
239	1031.70	108.78	End Shut-In (2)
240	1824.29	108.91	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
64.00	O&WCM5%o 10%w 85%m	0.62
1.00	CO	0.01

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32864

**DST#: 6**

ATTN: Kenneth Vehgie

Test Start: 2008.08.16 @ 08:12:15

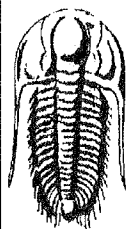
### Tool Information

Drill Pipe:	Length: 3714.00 ft	Diameter: 3.80 inches	Volume: 52.10 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 52.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3742.00 ft			Final 50000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3722.00	
Shut In Tool	5.00			3727.00	
Hydraulic tool	5.00			3732.00	
Packer	5.00			3737.00	21.00 Bottom Of Top Packer
Packer	5.00			3742.00	
Stubb	1.00			3743.00	
Recorder	0.00	8372	Inside	3743.00	
Recorder	0.00	8368	Outside	3743.00	
Perforations	21.00			3764.00	
Bullnose	3.00			3767.00	25.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601.

**30 6 20 Rooks Ks**

Job Ticket: 32864

**DST#: 6**

ATTN: Kenneth Vehgie

Test Start: 2008.08.16 @ 08:12:15

## 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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
64.00	O&WCM 5%o 10%w 85%m	0.624
1.00	CO	0.014

Total Length: 65.00 ft

Total Volume: 0.638 bbf

Num Fluid Samples: 0

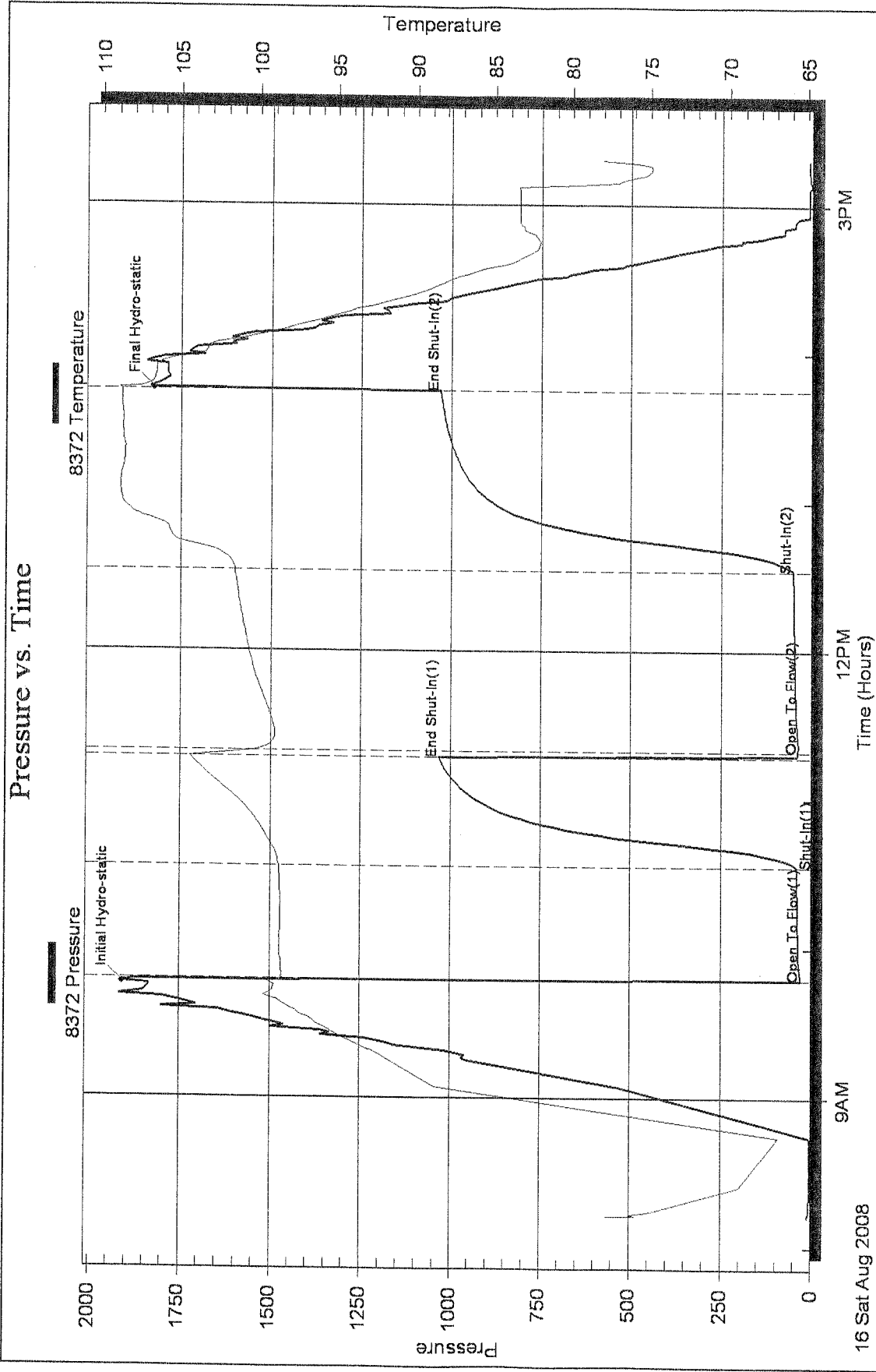
Num Gas Bombs: 0

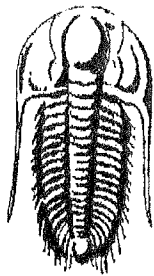
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

Box 641  
Hays Ks 67601

ATTN: Kenneth Vehgie

**30 6 20 Rooks Ks**

**States # 1**

Start Date: 2008.08.16 @ 19:30:00

End Date: 2008.08.16 @ 23:12:30

Job Ticket #: 32865                      DST #: 7

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Black Diamond Oil Inc

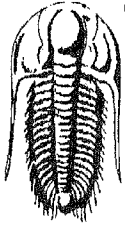
States # 1

30 6 20 Rooks Ks

DST # 7

Arbuckle

2008.08.16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32865

**DST#: 7**

ATTN: Kenneth Vehgie

Test Start: 2008.08.16 @ 19:30:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:03:00

Time Test Ended: 23:12:30

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

**Interval: 3755.00 ft (KB) To 3768.00 ft (KB) (TVD)**

Total Depth: 3768.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2305.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8372 Inside**

Press@RunDepth: 35.63 psig @ 3761.00 ft (KB)

Start Date: 2008.08.16

End Date: 2008.08.16

Capacity: 7000.00 psig

Start Time: 19:30:01

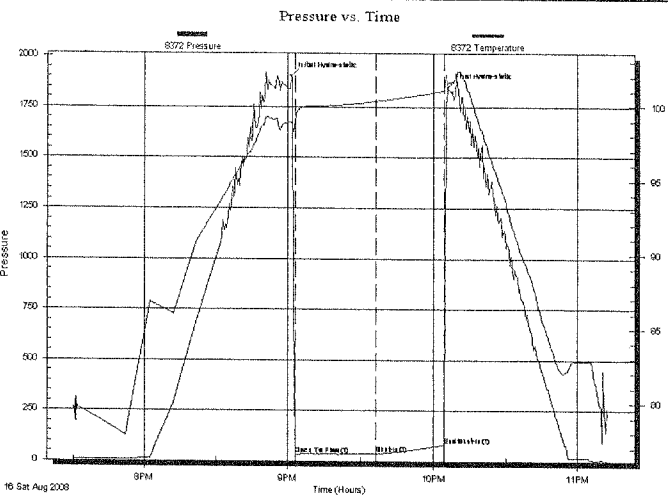
End Time: 23:12:30

Last Calib.: 2008.08.16

Time On Btm: 2008.08.16 @ 21:01:30

Time Off Btm: 2008.08.16 @ 22:06:00

TEST COMMENT: IF-Weak died in 25 min



## PRESSURE SUMMARY

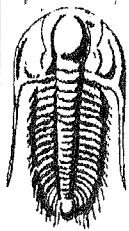
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.83	98.93	Initial Hydro-static
2	33.48	98.97	Open To Flow (1)
35	35.63	100.36	Shut-In(1)
63	81.56	101.07	End Shut-In(1)
65	1847.57	101.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/ oil spots	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32865

**DST#: 7**

ATTN: Kenneth Vehgie

Test Start: 2008.08.16 @ 19:30:00

### Tool Information

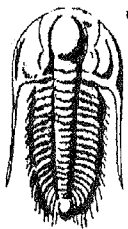
Drill Pipe:	Length: 3712.00 ft	Diameter: 3.80 inches	Volume: 52.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3755.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	34.00 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			3735.00	
Shut In Tool	5.00			3740.00	
Hydraulic tool	5.00			3745.00	
Packer	5.00			3750.00	21.00 Bottom Of Top Packer
Packer	5.00			3755.00	
Stubb	1.00			3756.00	
Perforations	5.00			3761.00	
Recorder	0.00	8372	Inside	3761.00	
Recorder	0.00	8368	Outside	3761.00	
Perforations	4.00			3765.00	
Bullnose	3.00			3768.00	13.00 Bottom Packers & Anchor

**Total Tool Length: 34.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32865

**DST#: 7**

ATTN: Kenneth Vehgie

Test Start: 2008.08.16 @ 19:30:00

## 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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

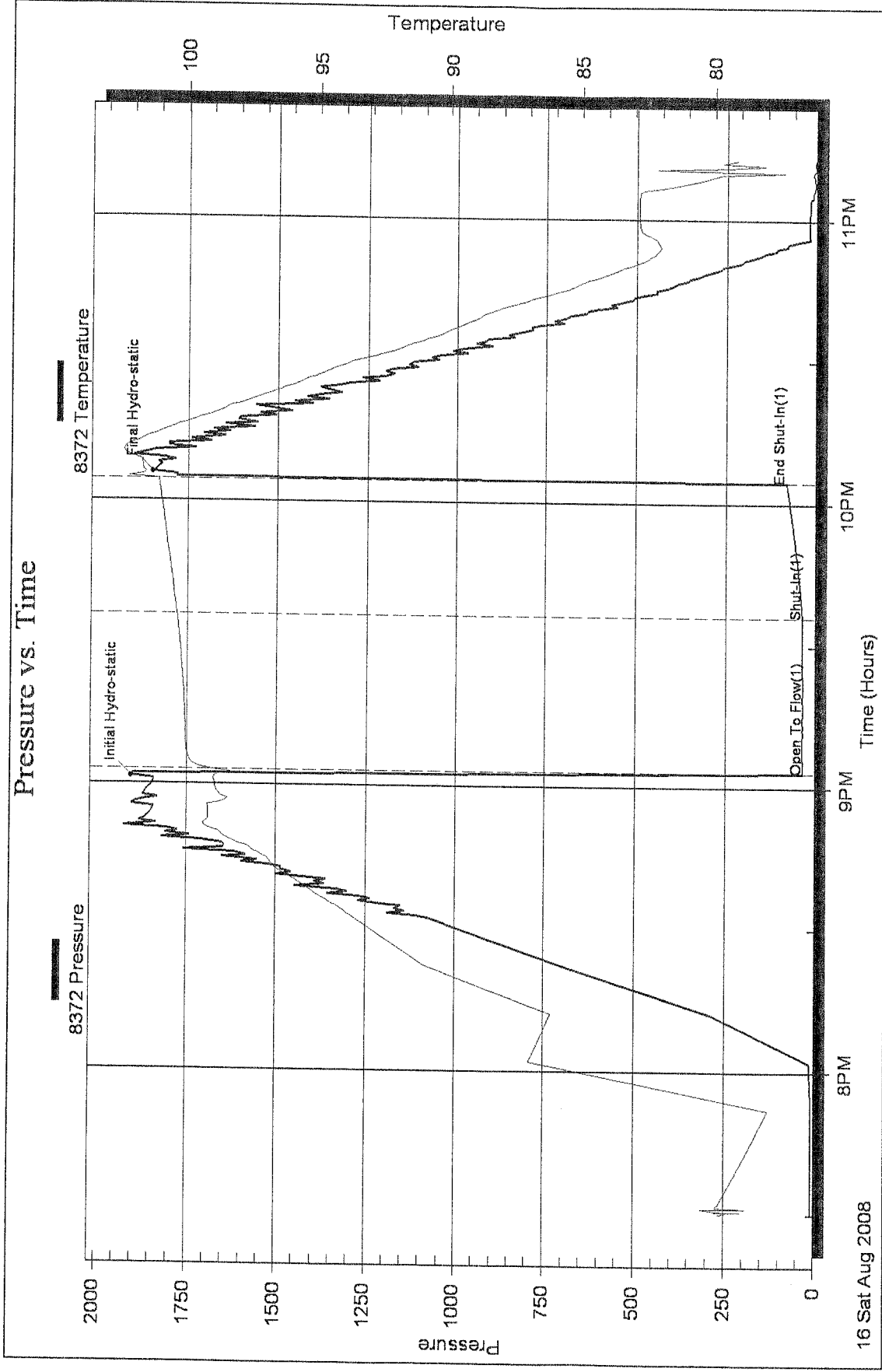
Length ft	Description	Volume bbl
10.00	Mud w/ oil spots	0.049

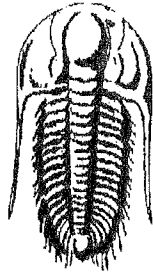
Total Length: 10.00 ft      Total Volume: 0.049 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

Box 641  
Hays Ks 67601

ATTN: Kenneth Vehgie

**30 6 20 Rooks Ks**

**States # 1**

Start Date: 2008.08.16 @ 23:45:01

End Date: 2008.08.17 @ 03:16:31

Job Ticket #: 32866                      DST #: 8

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Black Diamond Oil Inc

States # 1

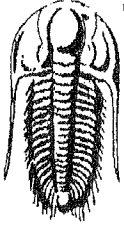
30 6 20 Rooks Ks

DST # 8

1

LKC

2008.08.16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

States # 1

Box 641  
Hays Ks 67601

30 6 20 Rooks Ks

Job Ticket: 32866

DST#: 8

ATTN: Kenneth Vehgie

Test Start: 2008.08.16 @ 23:45:01

## GENERAL INFORMATION:

Formation: I LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:02:01

Time Test Ended: 03:16:31

Test Type: Conventional Straddle

Tester: Dan Bangle

Unit No: 38

Interval: 3660.00 ft (KB) To 3690.00 ft (KB) (TVD)

Total Depth: 3770.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2305.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8372 Inside

Press@RunDepth: 22.04 psig @ 3661.00 ft (KB)

Start Date: 2008.08.16

End Date:

2008.08.17

Capacity: 7000.00 psig

Last Calib.: 2008.08.17

Start Time: 23:45:02

End Time:

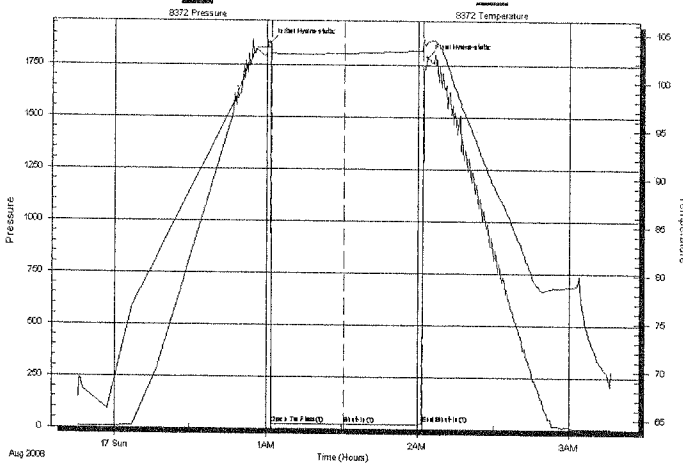
03:16:31

Time On Btm: 2008.08.17 @ 01:01:31

Time Off Btm: 2008.08.17 @ 02:03:31

TEST COMMENT: IF Weak surface blow - died in 20 min

Pressure vs. Time



## PRESSURE SUMMARY

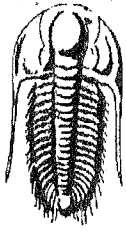
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1858.32	103.61	Initial Hydro-static
1	21.15	102.95	Open To Flow (1)
29	22.04	102.96	Shut-In(1)
60	24.66	103.28	End Shut-In(1)
62	1788.78	104.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	DM	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32866

**DST#: 8**

ATTN: Kenneth Vehgie

Test Start: 2008.08.16 @ 23:45:01

**Tool Information**

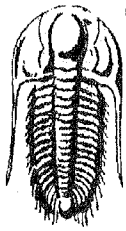
Drill Pipe:	Length: 3618.00 ft	Diameter: 3.80 inches	Volume: 50.75 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 50.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3660.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3690.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	131.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			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		
Recorder	0.00	8372	Inside	3661.00		
Perforations	25.00			3686.00		
Blank Off Sub	1.00			3687.00		
Blank Spacing	3.00			3690.00	30.00	Tool Interval
Packer	2.00			3692.00		
Stubb	1.00			3693.00		
Recorder	0.00	8368	Outside	3693.00		
Perforations	9.00			3702.00		
Change Over Sub	1.00			3703.00		
Drill Pipe	63.00			3766.00		
Change Over Sub	1.00			3767.00		
Bullnose	3.00			3770.00	80.00	Bottom Packers & Anchor

**Total Tool Length: 131.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32866

**DST#: 8**

ATTN: Kenneth Vehgie

Test Start: 2008.08.16 @ 23:45:01

## 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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	DM	0.005

Total Length:

1.00 ft

Total Volume:

0.005 bbl

Num Fluid Samples: 0

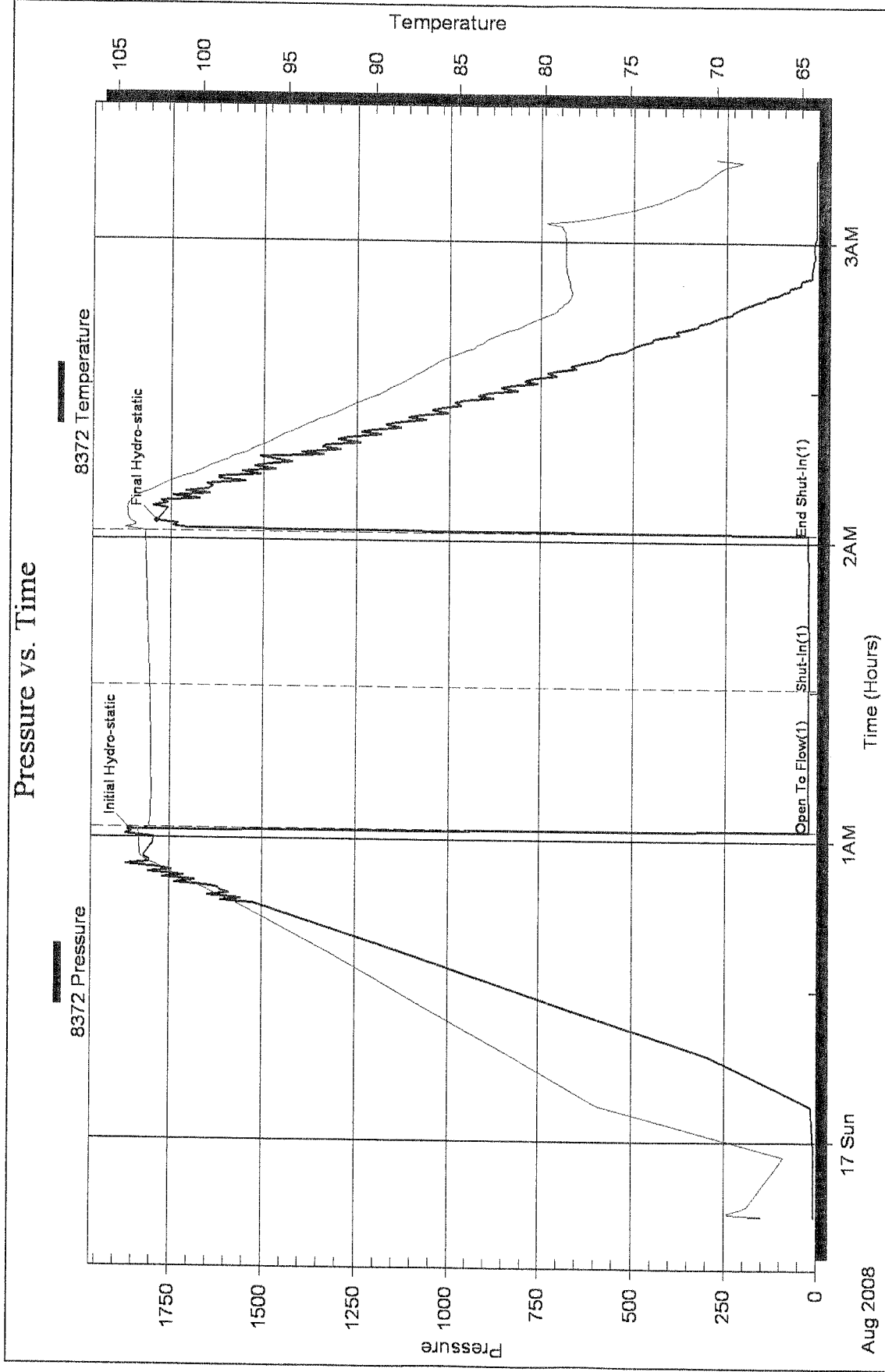
Num Gas Bombs: 0

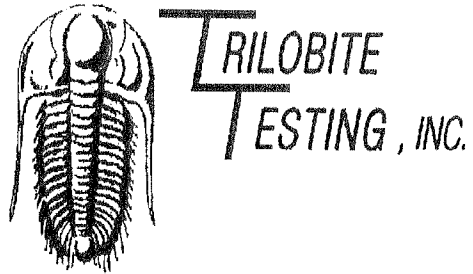
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

Box 641  
Hays Ks 67601

ATTN: Kenneth Vehgie

**30 6 20 Rooks Ks**

**States # 1**

Start Date: 2008.08.17 @ 08:25:45

End Date: 2008.08.17 @ 12:26:15

Job Ticket #: 32867                      DST #: 9

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Black Diamond Oil Inc

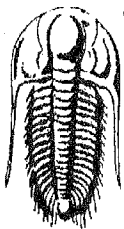
States # 1

30 6 20 Rooks Ks

DST # 9

Arbuckle

2008.08.17



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc  
 Box 641  
 Hays Ks 67601  
 ATTN: Kenneth Vehgie

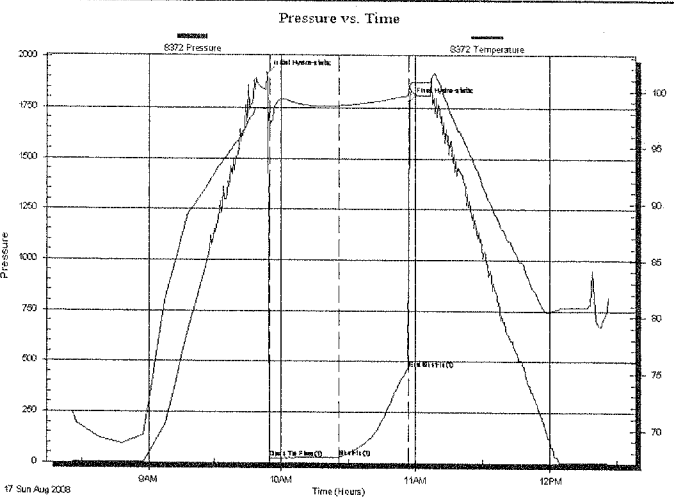
**States # 1**  
**30 6 20 Rooks Ks**  
 Job Ticket: 32867      **DST#: 9**  
 Test Start: 2008.08.17 @ 08:25:45

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 09:54:45  
 Time Test Ended: 12:26:15  
 Interval: **3755.00 ft (KB) To 3773.00 ft (KB) (TVD)**  
 Total Depth: **3773.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Dan Bangle**  
 Unit No: **38**  
 Reference Elevations: **2305.00 ft (KB)**  
    **2297.00 ft (CF)**  
    **KB to GR/CF: 8.00 ft**

**Serial #: 8372**      **Inside**  
 Press@RunDepth: **28.13 psig @ 3756.00 ft (KB)**      Capacity: **7000.00 psig**  
 Start Date: **2008.08.17**      End Date: **2008.08.17**      Last Calib.: **2008.08.17**  
 Start Time: **08:25:46**      End Time: **12:26:15**      Time On Btm: **2008.08.17 @ 09:53:45**  
    **12:26:15**      Time Off Btm: **2008.08.17 @ 10:57:15**

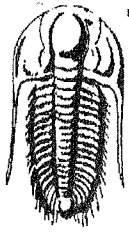
TEST COMMENT: IF-Weak died in 30 min



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1916.28	98.53	Initial Hydro-static
1	22.43	97.07	Open To Flow (1)
32	28.13	98.73	Shut-In(1)
63	464.34	99.61	End Shut-In(1)
64	1781.80	100.37	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	OCCM 20%O 80%M	0.05

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32867

**DST#: 9**

ATTN: Kenneth Vehgie

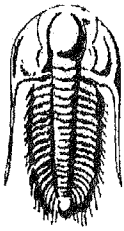
Test Start: 2008.08.17 @ 08:25:45

**Tool Information**

Drill Pipe:	Length: 3712.00 ft	Diameter: 3.80 inches	Volume: 52.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3755.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	39.00 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			3735.00	
Shut In Tool	5.00			3740.00	
Hydraulic tool	5.00			3745.00	
Packer	5.00			3750.00	21.00 Bottom Of Top Packer
Packer	5.00			3755.00	
Stubb	1.00			3756.00	
Recorder	0.00	8372	Inside	3756.00	
Recorder	0.00	8368	Outside	3756.00	
Perforations	14.00			3770.00	
Bullnose	3.00			3773.00	18.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>39.00</b>				



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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**States # 1**

Box 641  
Hays Ks 67601

**30 6 20 Rooks Ks**

Job Ticket: 32867

**DST#: 9**

ATTN: Kenneth Vehgie

Test Start: 2008.08.17 @ 08:25:45

## 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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 20%O 80%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

