

15-051-25429

Black Diamond Oil Inc.

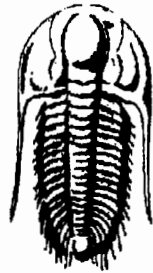
Vine #2

22-11s-19w-Ellis

DST # 1

Simpson Sand

2005.07.09



**TRILOBITE  
TESTING, INC.**

ORIGINAL

**DRILL STEM TEST REPORT**

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

PO Box 641  
Hays, Ks. 67601

ATTN: Kenneth Vehige

**22-11s-19w-Ellis**

**Vine #2**

Start Date: 2005.07.09 @ 13:52:00

End Date: 2005.07.09 @ 20:56:30

Job Ticket #: 22866                      DST #: 1

API # 15-051-25429-00-00

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2005.07.13 @ 11:30:25 Page 1

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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Black Diamond Oil Inc.

Vine #2

PO Box 641  
Hays, Ks. 67601

22-11s-19w-Elis

Job Ticket: 22866

DST#: 1

ATTN: Kenneth Vehige

Test Start: 2005.07.09 @ 13:52:00

### GENERAL INFORMATION:

Formation: **Simpson Sand**

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

Time Tool Opened: 18:22:30

Time Test Ended: 20:56:30

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **32**

Interval: **3572.00 ft (KB) To 3604.00 ft (KB) (TVD)**

Reference Elevations: **2124.00 ft (KB)**

Total Depth: **3604.00 ft (KB) (TVD)**

**2111.00 ft (CF)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

KB to GR/CF: **13.00 ft**

Serial #: **6741** Inside

Press@RunDepth: **15.73 psig @ 3576.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.07.09**

End Date: **2005.07.09**

Last Calib.: **2005.07.09**

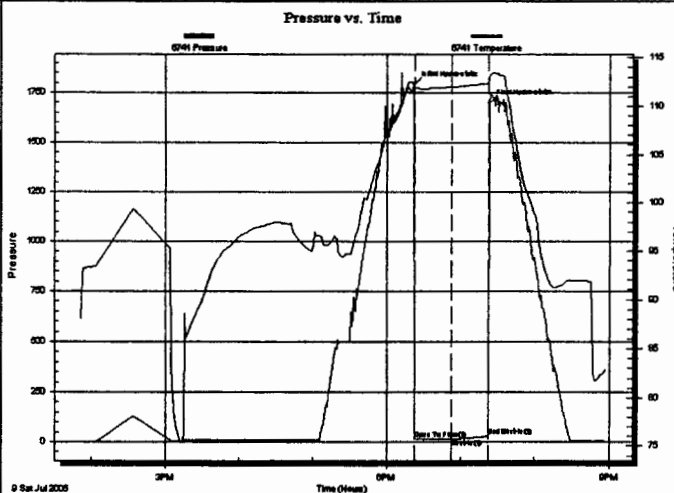
Start Time: **13:52:02**

End Time: **20:56:30**

Time On Btm: **2005.07.09 @ 18:22:15**

Time Off Btm: **2005.07.09 @ 19:23:00**

TEST COMMENT: **IFP-Weak Surface Blow, Built to 1/4", Died in 20 Mn  
ISI-Dead, Pull Tool**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.84	112.38	Initial Hydro-static
1	12.99	111.45	Open To Flow (1)
31	15.73	111.97	Shut-in(1)
61	27.90	112.34	End Shut-in(1)
61	1697.88	112.83	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	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.

**Vine #2**

PO Box 641  
Hays, Ks. 67601

**22-11s-19w-Ellis**

Job Ticket: 22866

**DST#: 1**

ATTN: Kenneth Vehige

Test Start: 2005.07.09 @ 13:52:00

**Tool Information**

Drill Pipe:	Length: 3545.00 ft	Diameter: 3.80 inches	Volume: 49.73 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3572.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	53.00 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			3552.00	
Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Packer	5.00			3567.00	21.00 Bottom Of Top Packer
Packer	5.00			3572.00	
Stubb	1.00			3573.00	
Perforations	3.00			3576.00	
Recorder	0.00	6741	Inside	3576.00	
Perforations	25.00			3601.00	
Recorder	0.00	13252	Outside	3601.00	
Bullnose	3.00			3604.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc.

**Vine #2**

PO Box 641  
Hays, Ks. 67601

**22-11s-19w-Ellis**

Job Ticket: 22866

**DST#: 1**

ATTN: Kenneth Vehige

Test Start: 2005.07.09 @ 13:52:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

### Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

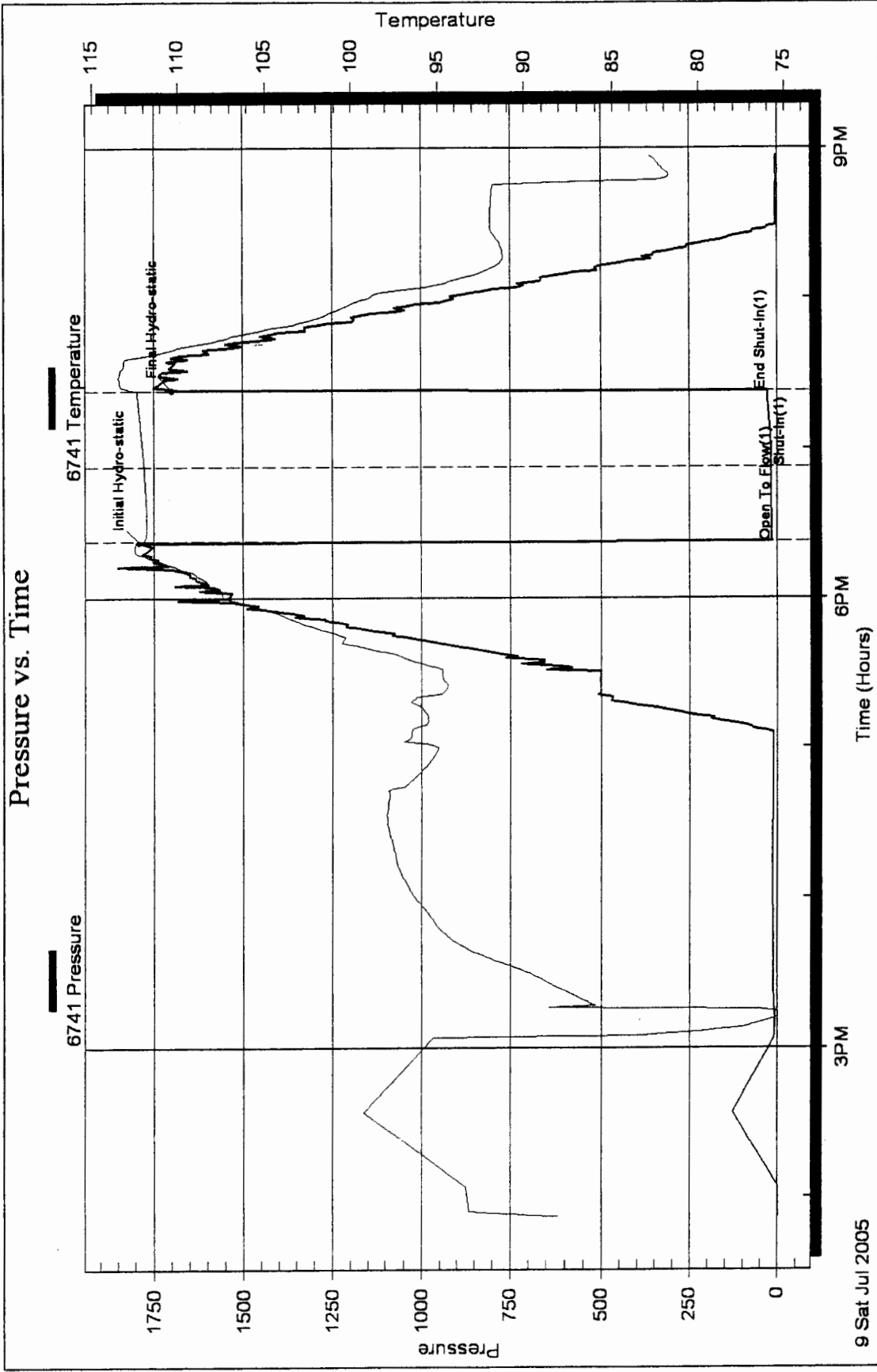
Serial #:

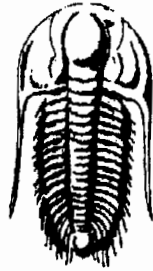
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

PO Box 641  
Hays, Ks. 67601

ATTN: Kenneth Vehige

**22-11s-19w-Ellis**

**Vine #2**

Start Date: 2005.07.10 @ 01:50:54

End Date: 2005.07.10 @ 08:19:24

Job Ticket #: 22867                      DST #: 2

Black Diamond Oil Inc.

Vine #2

22-11s-19w-Ellis

DST # 2

Arbuckle

2005.07.10

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.

Vine #2

PO Box 641  
Hays, Ks. 67601

22-11s-19w-Ellis

Job Ticket: 22867

DST#: 2

ATTN: Kenneth Vehige

Test Start: 2005.07.10 @ 01:50:54

### GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 03:13:54  
 Time Test Ended: 08:19:24

Test Type: **Conventional Bottom Hole**  
 Tester: **Jason McLemore**  
 Unit No: **32**

Interval: **3572.00 ft (KB) To 3613.00 ft (KB) (TVD)**  
 Total Depth: **3604.00 ft (KB) (TVD)**  
 Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2124.00 ft (KB)**  
**2111.00 ft (CF)**  
 KB to GR/CF: **13.00 ft**

Serial #: **6741**

Inside

Press@RunDepth: **1061.46 psig @ 3576.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.07.10**

End Date:

**2005.07.10**

Last Calib.: **2005.07.10**

Start Time: **01:50:56**

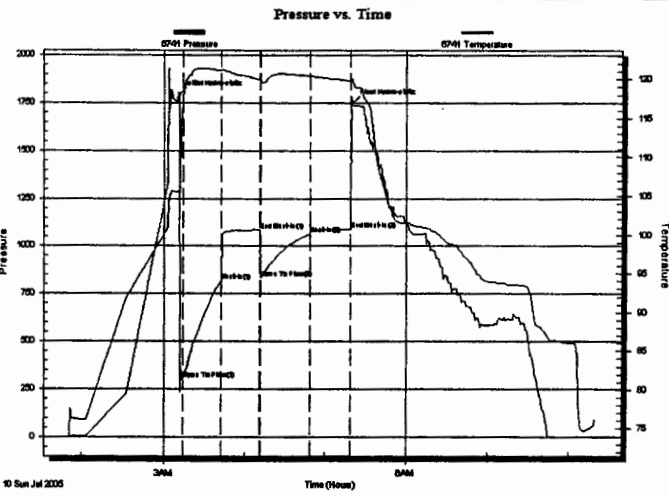
End Time:

**08:19:24**

Time On Btm: **2005.07.10 @ 03:11:09**

Time Off Btm: **2005.07.10 @ 05:20:39**

TEST COMMENT: **FFP-Strong Blow ,BOB in 1 Min,20 Sec.**  
**ISI-Dead**  
**FFP-Strong Blow ,BOB in 2 Min.**  
**FSI-Dead**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.31	105.29	Initial Hydro-static
3	300.50	117.20	Open To Flow (1)
31	817.84	121.15	Shut-In(1)
61	1085.00	119.99	End Shut-In(1)
61	834.61	119.87	Open To Flow (2)
98	1061.46	120.49	Shut-In(2)
129	1085.72	119.75	End Shut-In(2)
130	1746.17	120.01	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	Salt Water	1.40
1290.00	OCMW-VSOCMW	18.10
840.00	OCMW-10G-20%O-45%W-25%M	11.78

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc.

Vine #2

PO Box 641  
Hays, Ks. 67601

22-11s-19w-Ellis

Job Ticket: 22867

DST#: 2

ATTN: Kenneth Vehige

Test Start: 2005.07.10 @ 01:50:54

### Tool Information

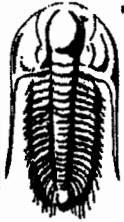
Drill Pipe:	Length: 3545.00 ft	Diameter: 3.80 inches	Volume: 49.73 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3572.00 ft			Final 55000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3552.00	
Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Packer	5.00			3567.00	21.00 Bottom Of Top Packer
Packer	5.00			3572.00	
Stubb	1.00			3573.00	
Perforations	3.00			3576.00	
Recorder	0.00	6741	Inside	3576.00	
Perforations	34.00			3610.00	
Recorder	0.00	13252	Outside	3610.00	
Bullnose	3.00			3613.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc.

**Vine #2**

PO Box 641  
Hays, Ks. 67601

**22-11s-19w-Ellis**

Job Ticket: 22867

**DST#: 2**

ATTN: Kenneth Vehige

Test Start: 2005.07.10 @ 01:50:54

### 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:

3900 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Salt Water	1.401
1290.00	OCMMV-VSOCMMV	18.095
840.00	OCMMV-10G-20%O-45%VW-25%M	11.783

Total Length: 2250.00 ft

Total Volume: 31.279 bbl

Num Fluid Samples: 0

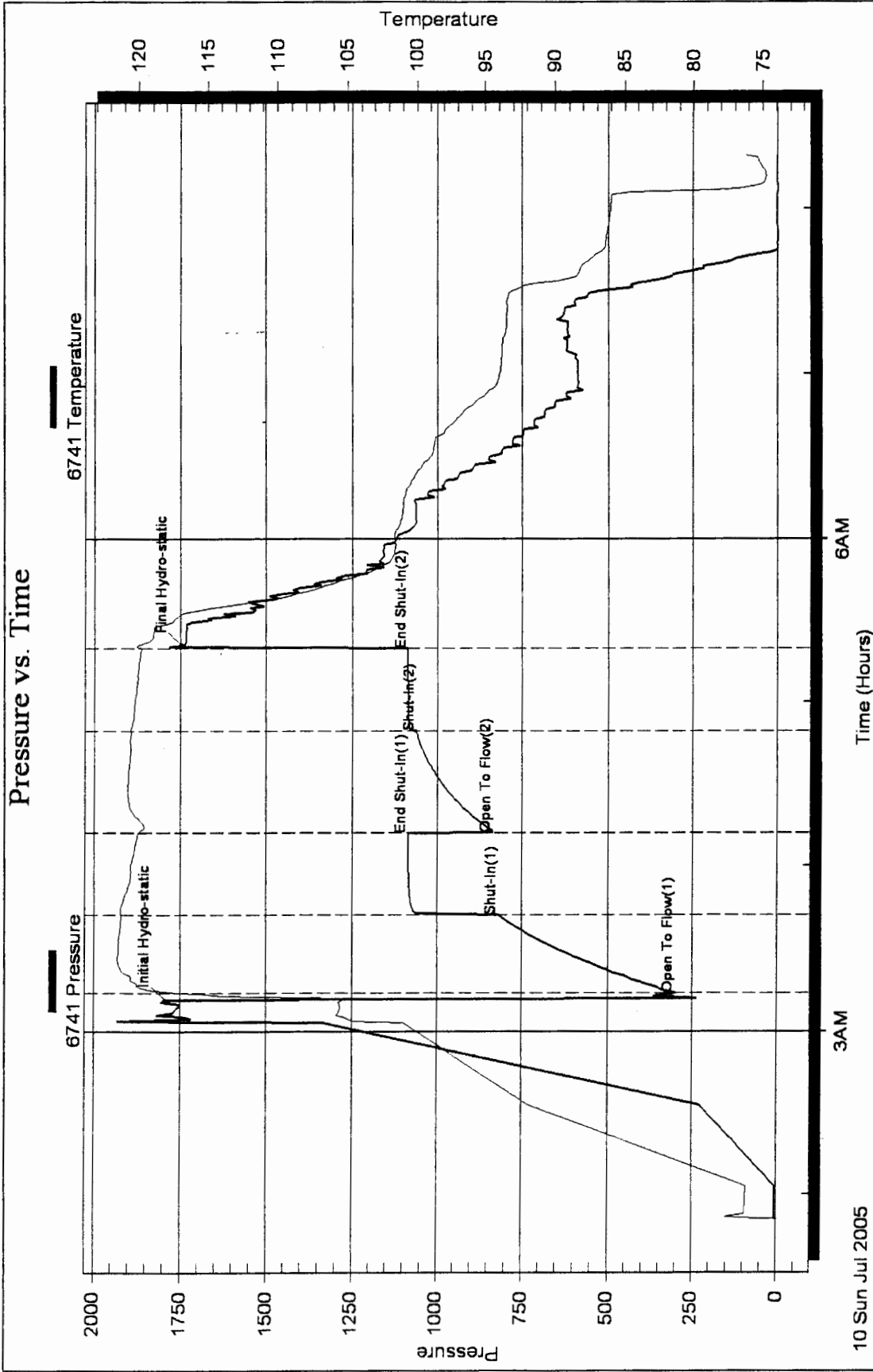
Num Gas Bombs: 0

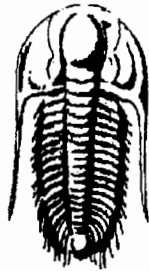
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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

## DRILL STEM TEST REPORT

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

PO Box 641  
Hays, Ks. 67601

ATTN: Kenneth Vehige

**22-11s-19w-Ellis**

**Vine #2**

Start Date: 2005.07.10 @ 13:41:46

End Date: 2005.07.10 @ 20:00:01

Job Ticket #: 22868                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Black Diamond Oil Inc.

Vine #2

22-11s-19w-Ellis

DST # 3

Arbuckle

2005.07.10



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc.

Vine #2

PO Box 641  
Hays, Ks. 67601

22-11s-19w-Ellis

Job Ticket: 22868

DST#: 3

ATTN: Kenneth Vehige

Test Start: 2005.07.10 @ 13:41:46

## GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 15:10:46

Time Test Ended: 20:00:01

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3613.00 ft (KB) To 3625.00 ft (KB) (TVD)**

Total Depth: **3625.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2124.00 ft (KB)**

**2111.00 ft (CF)**

KB to GR/CF: **13.00 ft**

Serial #: **6741**

Inside

Press@RunDepth: **956.10 psig @ 3617.00 ft (KB)**

Start Date: **2005.07.10**

End Date:

**2005.07.10**

Capacity: **7000.00 psig**

Last Calib.: **2005.07.10**

Start Time: **13:41:48**

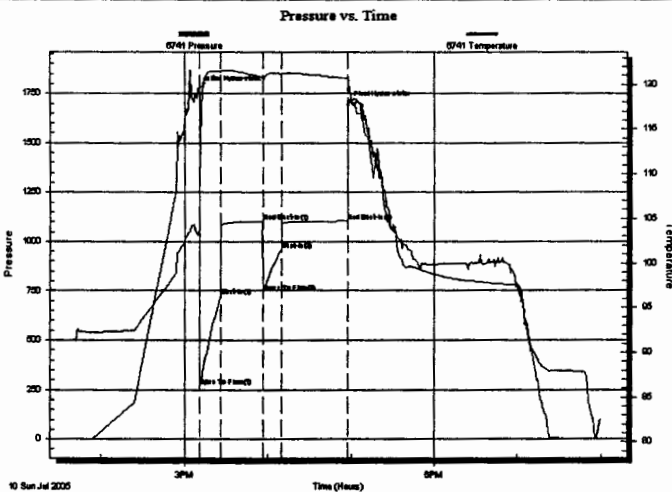
End Time:

**20:00:01**

Time On Btm: **2005.07.10 @ 15:10:01**

Time Off Btm: **2005.07.10 @ 16:57:31**

TEST COMMENT: **FP-Strong Blow, BOB in 34 Seconds  
IS-Dead  
FFP-Strong Blow, BOB in 45 Seconds  
FSI-Dead**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.68	103.62	Initial Hydro-static
1	269.64	108.34	Open To Flow (1)
16	721.47	121.42	Shut-in(1)
47	1102.92	120.84	End Shut-in(1)
47	744.21	120.50	Open To Flow (2)
59	956.10	121.18	Shut-in(2)
108	1103.88	120.71	End Shut-in(2)
108	1692.93	120.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	Salt Water	3.93
1760.00	OCMW-VSOCMW 10%G-10%O-50%W	324.69

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil Inc.

Vine #2

PO Box 641  
Hays, Ks. 67601

22-11s-19w-Ellis

Job Ticket: 22868

DST#: 3

ATTN: Kenneth Vehige

Test Start: 2005.07.10 @ 13:41:46

### Tool Information

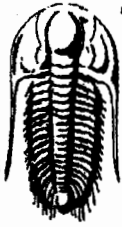
Drill Pipe:	Length: 3575.00 ft	Diameter: 3.80 inches	Volume: 50.15 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 50.30 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3613.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	33.00 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			3593.00	
Shut In Tool	5.00			3598.00	
Hydraulic tool	5.00			3603.00	
Packer	5.00			3608.00	21.00 Bottom Of Top Packer
Packer	5.00			3613.00	
Stubb	1.00			3614.00	
Perforations	3.00			3617.00	
Recorder	0.00	6741	Inside	3617.00	
Perforations	5.00			3622.00	
Recorder	0.00	13252	Outside	3622.00	
Bullnose	3.00			3625.00	12.00 Bottom Packers & Anchor

**Total Tool Length: 33.00**



**TRILOBITE  
TESTING, INC**

### DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc.

**Vine #2**

PO Box 641  
Hays, Ks. 67601

**22-11s-19w-Elis**

Job Ticket: 22868

**DST#: 3**

ATTN: Kenneth Vehige

Test Start: 2005.07.10 @ 13:41:46

#### 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:	3800 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 2.00 inches			

#### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	Salt Water	3.926
1760.00	OCCMW-VSOCMW 10%G-10%O-50%W-30%I	24.688

Total Length: 2060.00 ft      Total Volume: 28.614 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

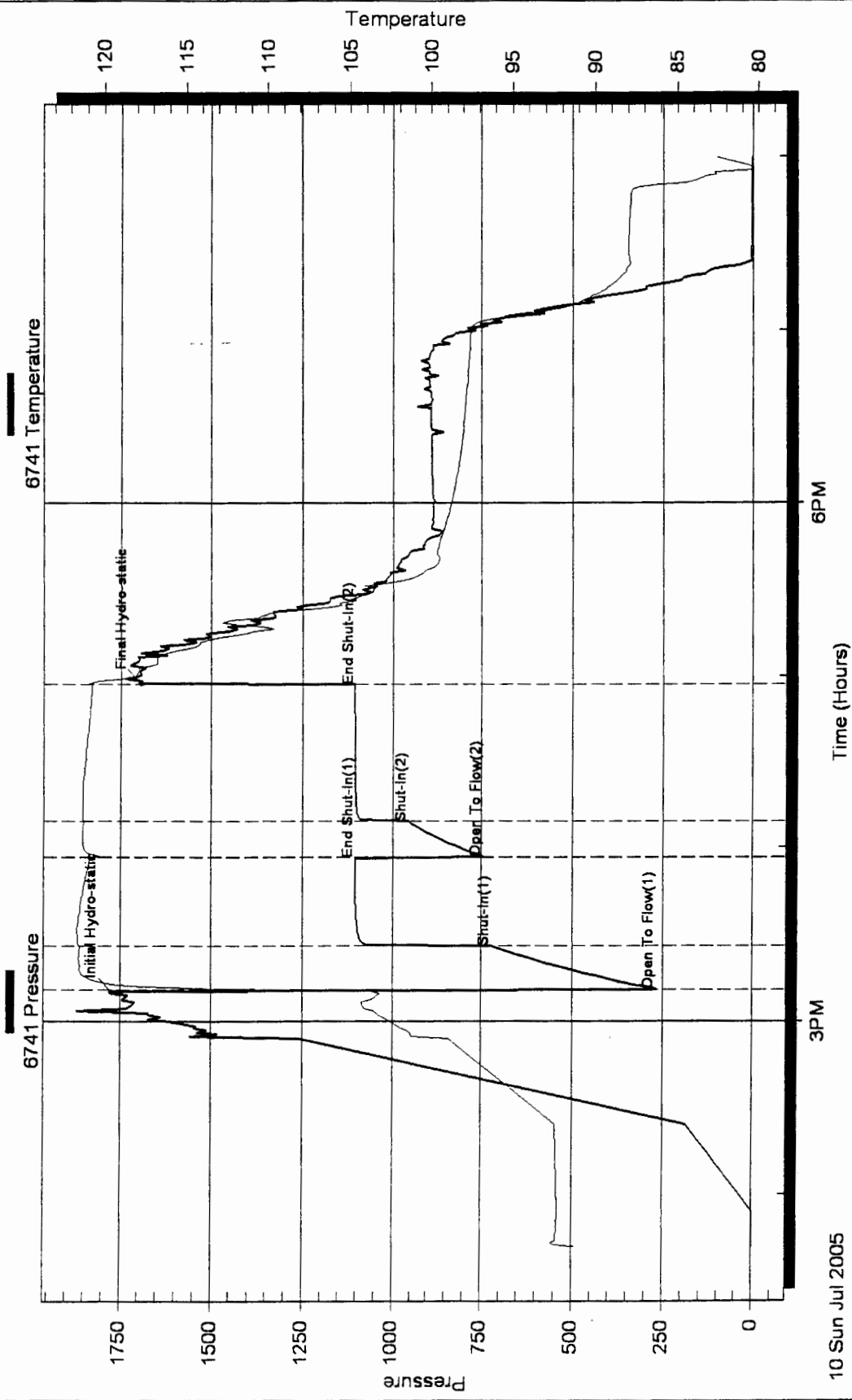
Serial #:

Laboratory Name:

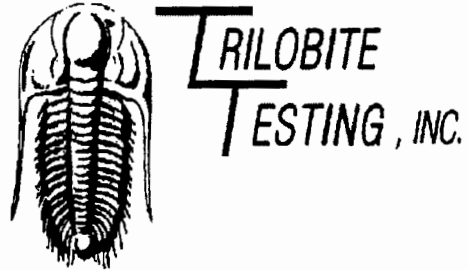
Laboratory Location:

Recovery Comments: Water % Increasing Oil % Decreasing

### Pressure vs. Time



10 Sun Jul 2005



## DRILL STEM TEST REPORT

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

PO Box 641  
Hays, Ks. 67601

ATTN: Kenneth Vehige

**22-11s-19w-Ellis**

**Vine #2**

Start Date: 2005.07.11 @ 02:06:42

End Date: 2005.07.11 @ 08:41:57

Job Ticket #: 22869                      DST #: 4

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Black Diamond Oil Inc.

Vine #2

22-11s-19w-Ellis

DST # 4

Arbuckle

2005.07.11



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Black Diamond Oil Inc.

Vine #2

PO Box 641  
Hays, Ks. 67601

22-11s-19w-Ellis

Job Ticket: 22869

DST#: 4

ATTN: Kenneth Vehige

Test Start: 2005.07.11 @ 02:06:42

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:44:27

Time Test Ended: 08:41:57

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3629.00 ft (KB) To 3647.00 ft (KB) (TVD)**

Reference Elevations: 2124.00 ft (KB)

Total Depth: 3647.00 ft (KB) (TVD)

2111.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: **6741**

Inside

Press@RunDepth: 1056.60 psig @ 3633.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.07.11

End Date:

2005.07.11

Last Calib.:

2005.07.11

Start Time: 02:06:44

End Time:

08:41:57

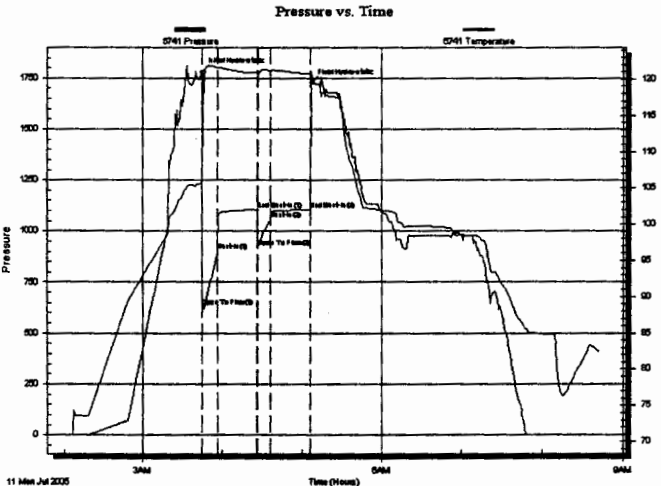
Time On Btrm

2005.07.11 @ 03:44:12

Time Off Btrm

2005.07.11 @ 05:06:27

TEST COMMENT: IFF-Strong Blow ,BOB in 21 Seconds  
IS-Dead  
FFP-Strong Blow ,BOB in 15 Seconds  
FSI-Dead



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.80	105.78	Initial Hydro-static
1	629.01	105.60	Open To Flow (1)
13	901.00	121.57	Shut-In(1)
43	1104.93	120.87	End Shut-In(1)
43	923.29	120.79	Open To Flow (2)
52	1056.60	121.19	Shut-In(2)
82	1105.32	120.80	End Shut-In(2)
83	1726.68	121.01	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1100.00	Water	15.15
1120.00	OCMM-10%G-20%O-40%W-30%M	15.71

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc.

**Vine #2**

PO Box 641  
Hays, Ks. 67601

**22-11s-19w-Ellis**

Job Ticket: 22869

**DST#: 4**

ATTN: Kenneth Vehige

Test Start: 2005.07.11 @ 02:06:42

### Tool Information

Drill Pipe:	Length: 3608.00 ft	Diameter: 3.80 inches	Volume: 50.61 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 50.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3629.00 ft			Final 58000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3609.00	
Shut In Tool	5.00			3614.00	
Hydraulic tool	5.00			3619.00	
Packer	5.00			3624.00	21.00 Bottom Of Top Packer
Packer	5.00			3629.00	
Stubb	1.00			3630.00	
Perforations	3.00			3633.00	
Recorder	0.00	6741	Inside	3633.00	
Perforations	11.00			3644.00	
Recorder	0.00	13252	Outside	3644.00	
Bullnose	3.00			3647.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 39.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Black Diamond Oil Inc.

**Vine #2**

PO Box 641  
Hays, Ks. 67601

**22-11s-19w-Ellis**

Job Ticket: 22869

**DST#: 4**

ATTN: Kenneth Vehige

Test Start: 2005.07.11 @ 02:06:42

**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:

1100 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1100.00	Water	15.148
1120.00	OCMW-10%G-20%O-40%W-30%M	15.711

Total Length: 2220.00 ft

Total Volume: 30.859 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

