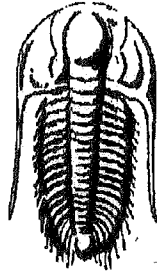


15-163-23854

7-6s-19w

IND



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays, KS 67601

ATTN: Tony Richardson

**7-6s-19w Rooks KS**

**Brewer RTF Unit**

Start Date: 2010.03.05 @ 06:27:18

End Date: 2010.03.05 @ 12:06:18

Job Ticket #: 38081                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

RECEIVED

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KCC WICHITA

Black Diamond Oil Inc

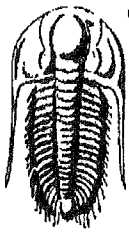
Brewer RTF Unit

7-6s-19w Rooks KS

DST # 1

"A-C"

2010.03.05



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

PO Box 641  
Hays, KS 67601

ATTN: Tony Richardson

**Brewer RTF Unit**

**7-6s-19w Rooks KS**

Job Ticket: 38081

DST#: 1

Test Start: 2010.03.05 @ 06:27:18

## GENERAL INFORMATION:

Formation: "A-C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:01:48

Time Test Ended: 12:06:18

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3304.00 ft (KB) To 3362.00 ft (KB) (TVD)

Total Depth: 3362.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2097.00 ft (KB)

2089.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6755**

Inside

Press@RunDepth: 175.06 psig @ 3339.00 ft (KB)

Start Date: 2010.03.05

End Date: 2010.03.05

Start Time: 06:27:20

End Time: 12:06:18

Capacity: 8000.00 psig

Last Calib.: 2010.03.05

Time On Btm: 2010.03.05 @ 08:01:18

Time Off Btm: 2010.03.05 @ 10:36:18

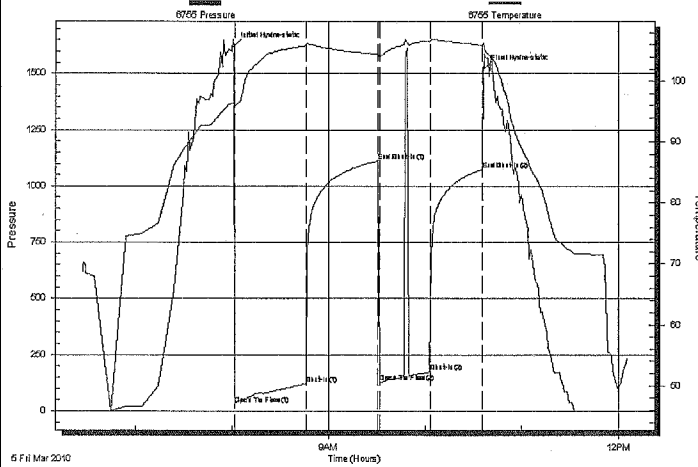
TEST COMMENT: IFF-Good Blow ,BOB in 23 Min.

ISI-Dead

FFP-Weak Surface Blow ,Flush Tool, No Change

FSl-Dead

Pressure vs. Time



## PRESSURE SUMMARY

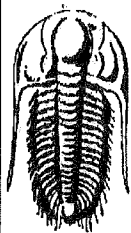
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.51	96.47	Initial Hydro-static
1	32.34	95.86	Open To Flow (1)
45	121.51	105.85	Shut-In(1)
90	1111.42	104.44	End Shut-In(1)
91	127.01	103.96	Open To Flow (2)
122	175.06	106.61	Shut-In(2)
154	1072.83	105.88	End Shut-In(2)
155	1524.64	105.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
305.00	Muddy Water W/Oil Scum	4.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38081

**DST#: 1**

ATTN: Tony Richardson

Test Start: 2010.03.05 @ 06:27:18

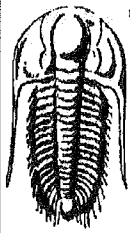
**Tool Information**

Drill Pipe:	Length: 3264.00 ft	Diameter: 3.80 inches	Volume: 45.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
		<b>Total Volume:</b>	<b>45.94 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3304.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	79.00 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			3284.00	
Shut In Tool	5.00			3289.00	
Hydraulic tool	5.00			3294.00	
Packer	5.00			3299.00	21.00 Bottom Of Top Packer
Packer	5.00			3304.00	
Stubb	1.00			3305.00	
Perforations	1.00			3306.00	
Change Over Sub	1.00			3307.00	
Blank Spacing	31.00			3338.00	
Change Over Sub	1.00			3339.00	
Recorder	0.00	6755	Inside	3339.00	
Recorder	0.00	8360	Outside	3339.00	
Perforations	20.00			3359.00	
Bullnose	3.00			3362.00	58.00 Bottom Packers & Anchor

**Total Tool Length: 79.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38081

DST#: 1

ATTN: Tony Richardson

Test Start: 2010.03.05 @ 06:27:18

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

93000 ppm

Viscosity: sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
305.00	Muddy Water W/Oil Scum	4.005

Total Length: 305.00 ft      Total Volume: 4.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

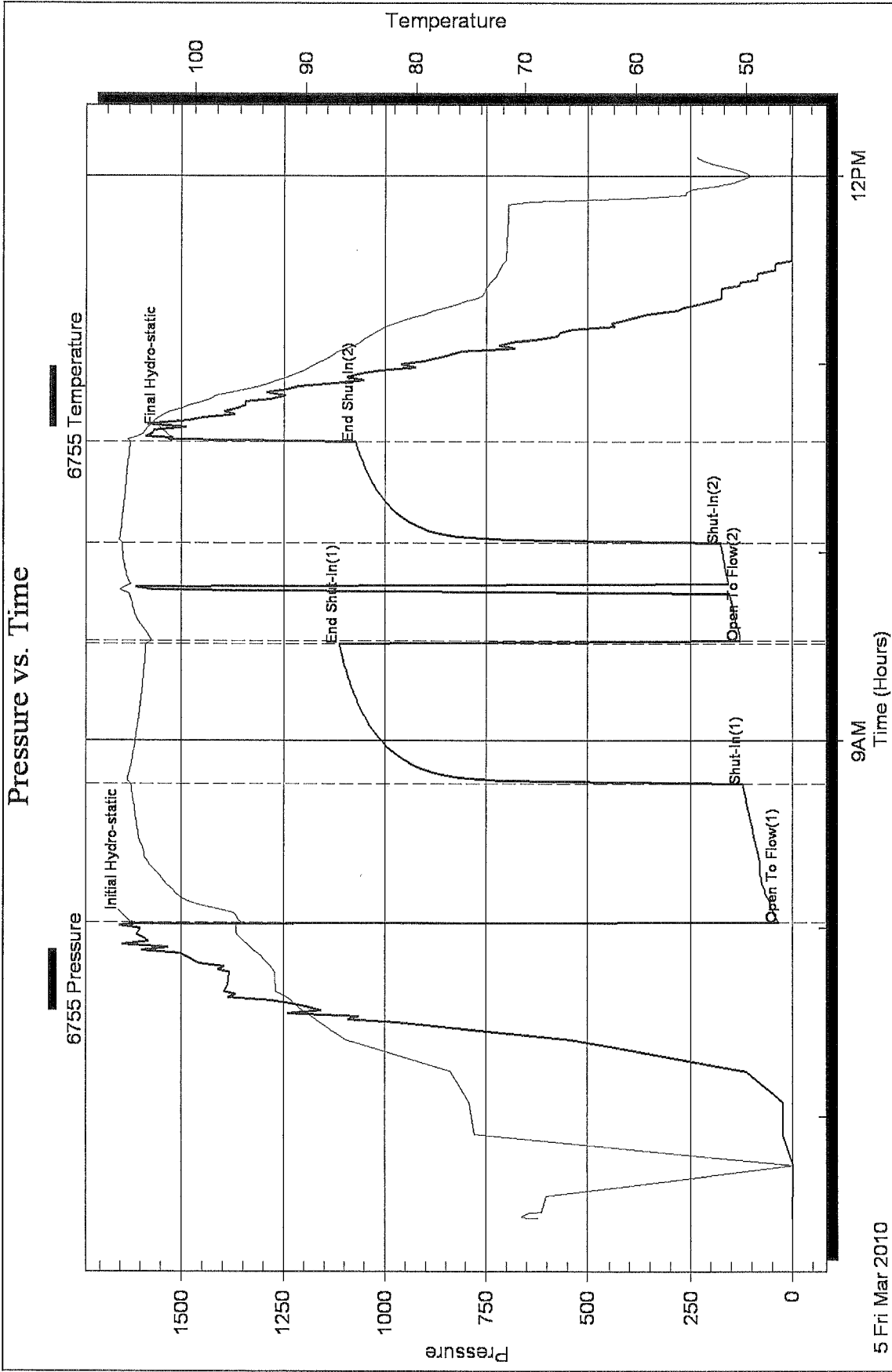
Serial #:

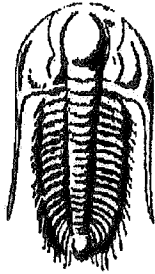
Laboratory Name:

Laboratory Location:

Recovery Comments: RW.106 @ 54 = 93000 chlorides

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays, KS 67601

ATTN: Tony Richardson

**7-6s-19w Rooks KS**

**Brewer RTF Unit**

Start Date: 2010.03.05 @ 18:10:04

End Date: 2010.03.05 @ 23:01:04

Job Ticket #: 38082                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Black Diamond Oil Inc

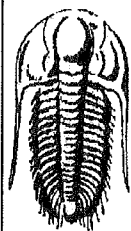
Brewer RTF Unit

7-6s-19w Rooks KS

DST # 2

"D-E-F"

2010.03.05



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38082      DST#: 2

ATTN: Tony Richardson

Test Start: 2010.03.05 @ 18:10:04

## GENERAL INFORMATION:

Formation: "D-E-F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:32:34

Time Test Ended: 23:01:04

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3358.00 ft (KB) To 3418.00 ft (KB) (TVD)

Reference Elevations: 2097.00 ft (KB)

Total Depth: 3418.00 ft (KB) (TVD)

2089.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6755**

Inside

Press@RunDepth: 177.97 psig @ 3395.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.03.05

End Date:

2010.03.05

Last Calib.: 2010.03.05

Start Time: 18:10:06

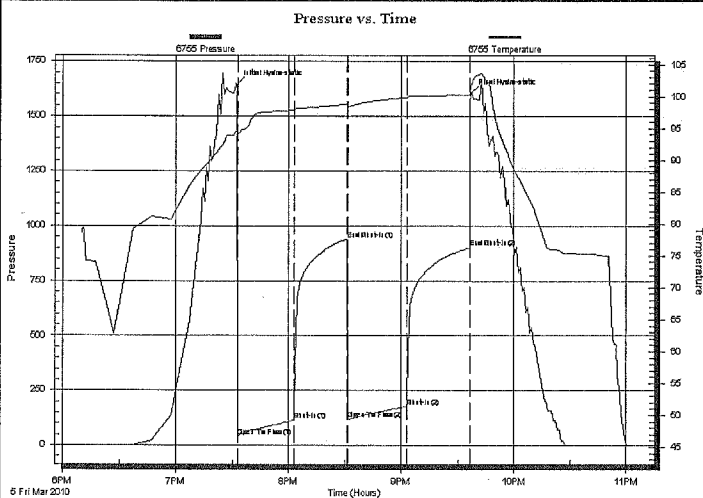
End Time:

23:01:04

Time On Btm: 2010.03.05 @ 19:32:04

Time Off Btm: 2010.03.05 @ 21:37:04

**TEST COMMENT:** IFP-Good Blow ,BOB in 18 Min.  
ISI-Dead  
FFP-Good Blow ,BOB in 23 Min.  
FSI-Dead



## PRESSURE SUMMARY

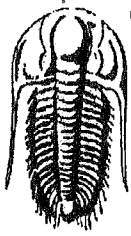
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1645.33	94.53	Initial Hydro-static
1	38.68	94.13	Open To Flow (1)
31	114.13	97.85	Shut-In(1)
59	939.65	98.83	End Shut-In(1)
60	118.84	98.46	Open To Flow (2)
91	177.97	99.83	Shut-In(2)
124	901.67	100.31	End Shut-In(2)
125	1605.18	101.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	Muddy Water W/Oil Scum-70%W-30%M	4.08

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38082

**DST#: 2**

ATTN: Tony Richardson

Test Start: 2010.03.05 @ 18:10:04

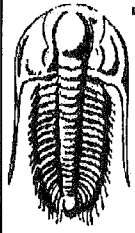
### Tool Information

Drill Pipe:	Length: 3330.00 ft	Diameter: 3.80 inches	Volume: 46.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 46.86 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3358.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 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			3338.00	
Shut In Tool	5.00			3343.00	
Hydraulic tool	5.00			3348.00	
Packer	5.00			3353.00	21.00 Bottom Of Top Packer
Packer	5.00			3358.00	
Stubb	1.00			3359.00	
Perforations	3.00			3362.00	
Change Over Sub	1.00			3363.00	
Blank Spacing	31.00			3394.00	
Change Over Sub	1.00			3395.00	
Recorder	0.00	6755	Inside	3395.00	
Recorder	0.00	8360	Outside	3395.00	
Perforations	20.00			3415.00	
Bullnose	3.00			3418.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38082

**DST#: 2**

ATTN: Tony Richardson

Test Start: 2010.03.05 @ 18:10:04

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

92000 ppm

Viscosity: sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	Muddy Water W/Oil Scum-70%W-30%M	4.075

Total Length: 310.00 ft      Total Volume: 4.075 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

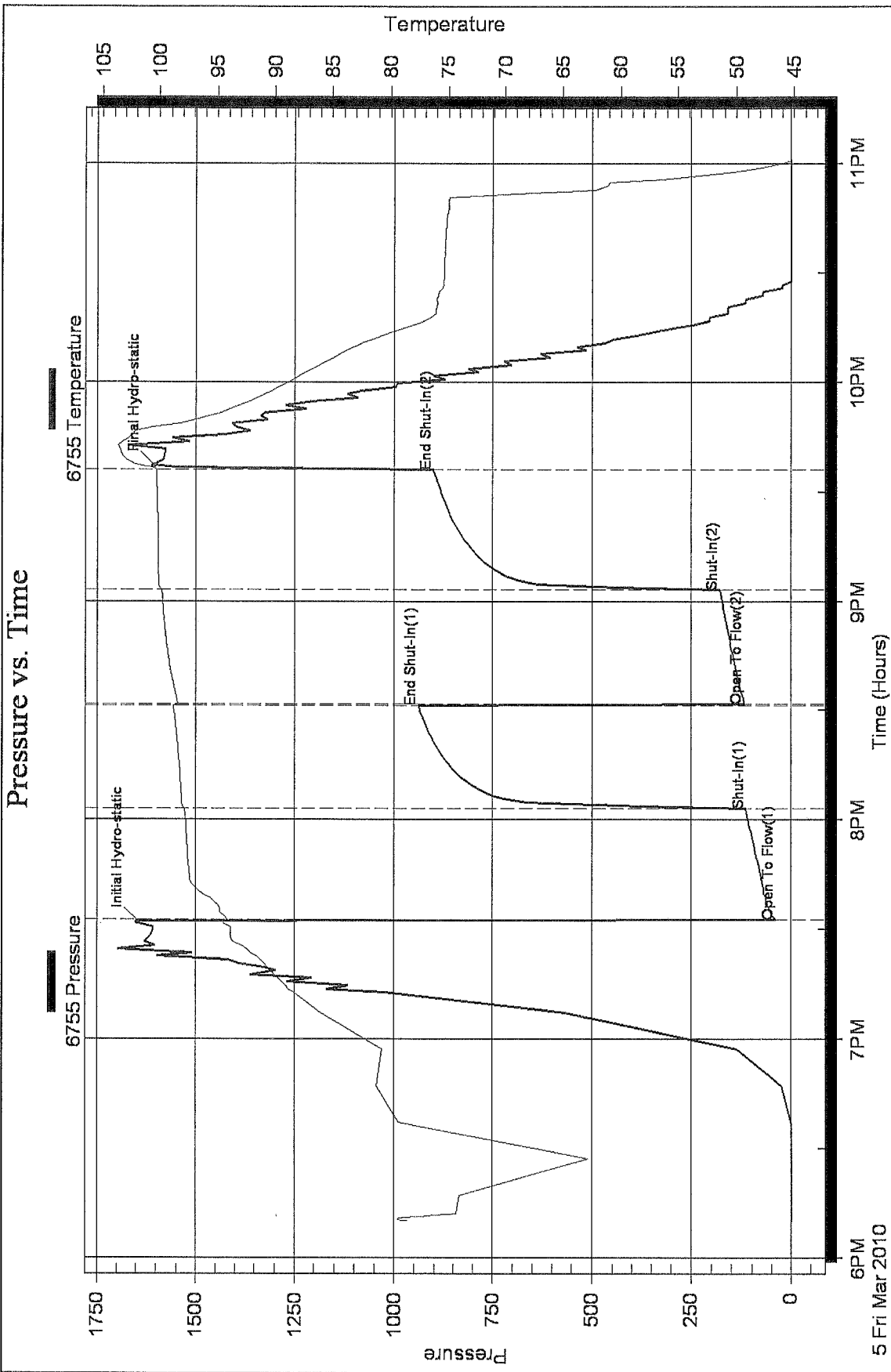
Serial #:

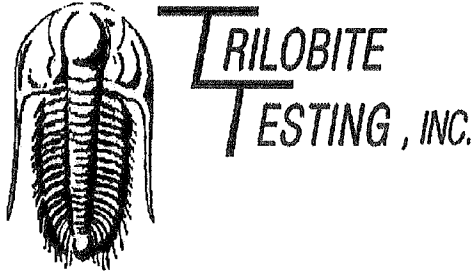
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .114 @ 44F = 92000 ppm chlorides

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays, KS 67601

ATTN: Tony Richardson

**7-6s-19w Rooks KS**

**Brewer RTF Unit**

Start Date: 2010.03.06 @ 10:45:45

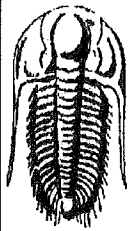
End Date: 2010.03.06 @ 14:23:15

Job Ticket #: 38083                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38083

**DST#: 3**

ATTN: Tony Richardson

Test Start: 2010.03.06 @ 10:45:45

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 14:23:15

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3559.00 ft (KB) To 3570.00 ft (KB) (TVD)**

Reference Elevations: 2097.00 ft (KB)

Total Depth: 3570.00 ft (KB) (TVD)

2089.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6755**

Inside

Press@RunDepth: psig @ 3563.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.03.06

End Date: 2010.03.06

Last Calib.: 2010.03.06

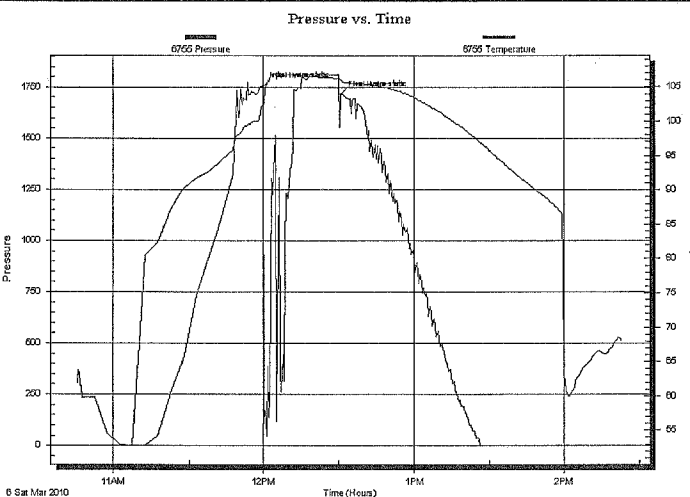
Start Time: 10:45:47

End Time: 14:23:15

Time On Btm: 2010.03.06 @ 11:59:45

Time Off Btm: 2010.03.06 @ 12:30:45

TEST COMMENT: IFP-15' Fill on Bottom, Tool Slid 8', No Blow, Pull Tool After 30 Min.



## PRESSURE SUMMARY

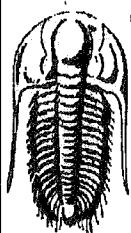
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.01	102.29	Initial Hydro-static
31	1713.75	106.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud	0.29

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38083

**DST#: 3**

ATTN: Tony Richardson

Test Start: 2010.03.06 @ 10:45:45

**Tool Information**

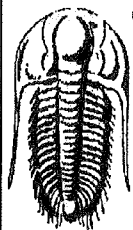
Drill Pipe:	Length: 3519.00 ft	Diameter: 3.80 inches	Volume: 49.36 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 49.51 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3559.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	32.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3539.00	
Shut In Tool	5.00			3544.00	
Hydraulic tool	5.00			3549.00	
Packer	5.00			3554.00	21.00 Bottom Of Top Packer
Packer	5.00			3559.00	
Stubb	1.00			3560.00	
Perforations	3.00			3563.00	
Recorder	0.00	6755	Inside	3563.00	
Recorder	0.00	8360	Inside	3563.00	
Perforations	4.00			3567.00	
Bullnose	3.00			3570.00	11.00 Bottom Packers & Anchor

**Total Tool Length: 32.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38083

DST#: 3

ATTN: Tony Richardson

Test Start: 2010.03.06 @ 10:45:45

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	Drilling Mud	0.288

Total Length: 40.00 ft      Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

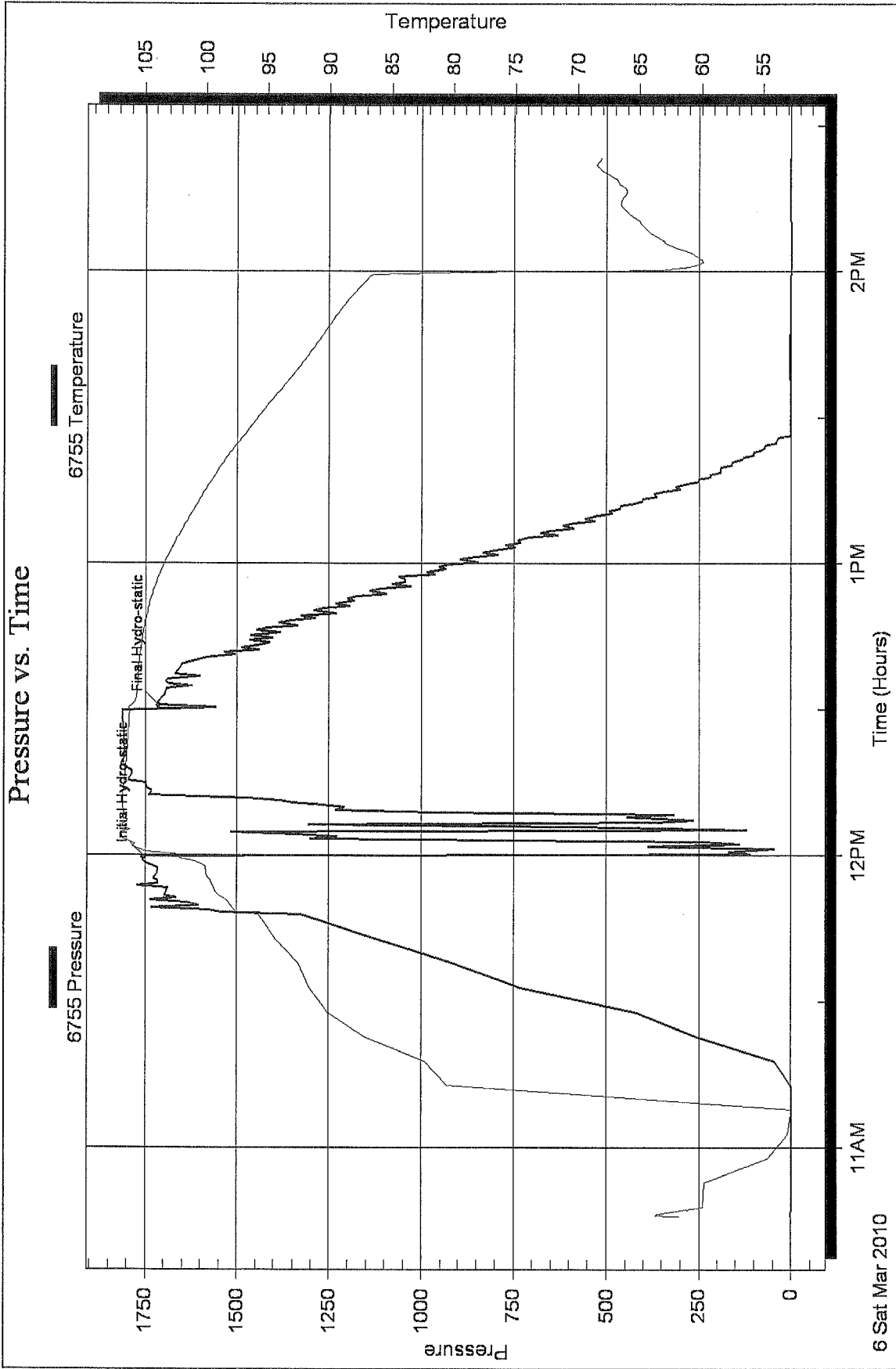
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays, KS 67601

ATTN: Tony Richardson

**7-6s-19w Rooks KS**

**Brewer RTF Unit**

Start Date: 2010.03.06 @ 17:00:51

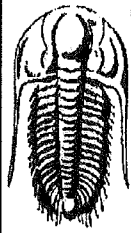
End Date: 2010.03.06 @ 23:41:21

Job Ticket #: 38084                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Black Diamond Oil Inc

PO Box 641  
Hays, KS 67601

ATTN: Tony Richardson

**Brewer RTF Unit**

**7-6s-19w Rooks KS**

Job Ticket: 38084

DST#: 4

Test Start: 2010.03.06 @ 17:00:51

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:14:21

Time Test Ended: 23:41:21

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3510.00 ft (KB) To 3570.00 ft (KB) (TVD)**

Total Depth: 3570.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2097.00 ft (KB)

2089.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6755** Inside

Press@RunDepth: 53.19 psig @ 3547.00 ft (KB)

Start Date: 2010.03.06

End Date: 2010.03.06

Start Time: 17:00:53

End Time: 23:41:21

Capacity: 8000.00 psig

Last Calib.: 2010.03.06

Time On Btm: 2010.03.06 @ 18:13:51

Time Off Btm: 2010.03.06 @ 22:17:21

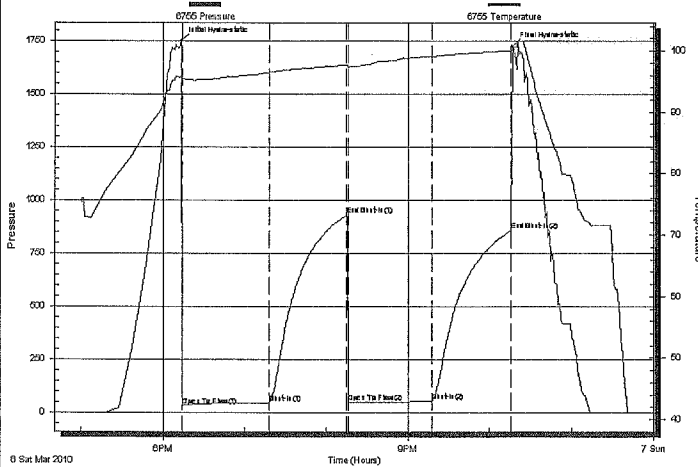
TEST COMMENT: IFP-Weak Blow ,Built to 1-1/2"

ISI-Dead

FFP-Weak Surface Blow

FSL-Dead

Pressure vs. Time



### PRESSURE SUMMARY

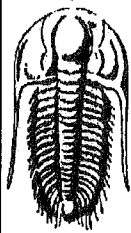
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1749.18	95.93	Initial Hydro-static
1	34.23	95.41	Open To Flow (1)
64	46.95	96.45	Shut-In(1)
121	928.92	97.68	End Shut-In(1)
122	49.43	97.35	Open To Flow (2)
184	53.19	99.12	Shut-In(2)
243	857.32	100.05	End Shut-In(2)
244	1724.16	100.38	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2.00	HOCM-40%O-60%M	0.01
48.00	VSOCM-3%O-97%M	0.42

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38084

**DST#: 4**

ATTN: Tony Richardson

Test Start: 2010.03.06 @ 17:00:51

### Tool Information

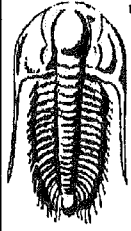
Drill Pipe:	Length: 3484.00 ft	Diameter: 3.80 inches	Volume: 48.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
		<b>Total Volume:</b>	<b>49.02 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3510.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 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			3490.00	
Shut In Tool	5.00			3495.00	
Hydraulic tool	5.00			3500.00	
Packer	5.00			3505.00	21.00 Bottom Of Top Packer
Packer	5.00			3510.00	
Stubb	1.00			3511.00	
Perforations	3.00			3514.00	
Change Over Sub	1.00			3515.00	
Blank Spacing	31.00			3546.00	
Change Over Sub	1.00			3547.00	
Recorder	0.00	6755	Inside	3547.00	
Recorder	0.00	8360	Outside	3547.00	
Perforations	20.00			3567.00	
Bullnose	3.00			3570.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38084

**DST#: 4**

ATTN: Tony Richardson

Test Start: 2010.03.06 @ 17:00:51

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 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
2.00	HOCM-40%O-60%M	0.010
48.00	VSOCM-3%O-97%M	0.418

Total Length: 50.00 ft

Total Volume: 0.428 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

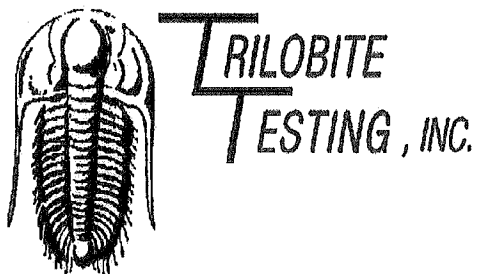
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays, KS 67601

ATTN: Tony Richardson

**7-6s-19w Rooks KS**

**Brewer RTF Unit**

Start Date: 2010.03.07 @ 04:36:00

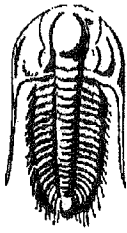
End Date: 2010.03.07 @ 11:53:00

Job Ticket #: 38085                      DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38085

**DST#: 5**

ATTN: Tony Richardson

Test Start: 2010.03.07 @ 04:36:00

## GENERAL INFORMATION:

Formation: **"K-Arbuckle"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:05:00

Time Test Ended: 11:53:00

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3510.00 ft (KB) To 3575.00 ft (KB) (TVD)**

Reference Elevations: 2097.00 ft (KB)

Total Depth: 3575.00 ft (KB) (TVD)

2089.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6755**

Inside

Press@RunDepth: 75.63 psig @ 3547.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.03.07

End Date: 2010.03.07

Last Calib.: 2010.03.07

Start Time: 04:36:02

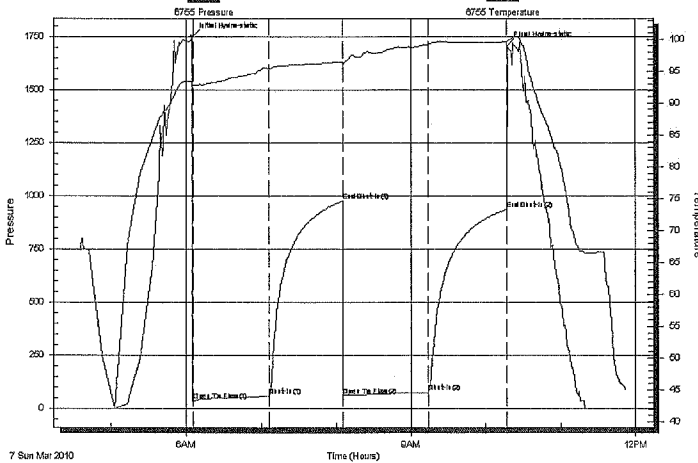
End Time: 11:53:00

Time On Btm: 2010.03.07 @ 06:04:30

Time Off Btm: 2010.03.07 @ 10:17:30

**TEST COMMENT:** IFP-Fair Blow ,Built to 5"  
ISI-Dead  
FFP-Weak Blow ,Built to 3"  
FSI-Dead

Pressure vs. Time



## PRESSURE SUMMARY

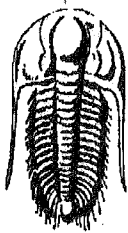
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1750.70	93.54	Initial Hydro-static
1	35.60	92.65	Open To Flow (1)
62	58.68	95.44	Shut-In(1)
121	975.83	96.49	End Shut-In(1)
122	61.40	96.14	Open To Flow (2)
190	75.63	99.31	Shut-In(2)
253	936.57	99.61	End Shut-In(2)
253	1706.97	99.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
68.00	VSOCM-3%O-97%M	0.68
30.00	HOVM-30%O-70%M	0.42
2.00	Heavy Oil	0.03

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38085

**DST#: 5**

ATTN: Tony Richardson

Test Start: 2010.03.07 @ 04:36:00

### Tool Information

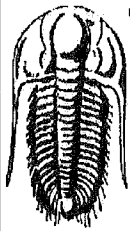
Drill Pipe:	Length: 3484.00 ft	Diameter: 3.80 inches	Volume: 48.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
		<b>Total Volume:</b>	<b>49.02 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3510.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3490.00	
Shut In Tool	5.00			3495.00	
Hydraulic tool	5.00			3500.00	
Packer	5.00			3505.00	21.00 Bottom Of Top Packer
Packer	5.00			3510.00	
Stubb	1.00			3511.00	
Perforations	3.00			3514.00	
Change Over Sub	1.00			3515.00	
Blank Spacing	31.00			3546.00	
Change Over Sub	1.00			3547.00	
Recorder	0.00	6755	Inside	3547.00	
Recorder	0.00	8360	Outside	3547.00	
Perforations	25.00			3572.00	
Bullnose	3.00			3575.00	65.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38085

DST#: 5

ATTN: Tony Richardson

Test Start: 2010.03.07 @ 04:36:00

### 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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 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
68.00	VSOCM-3%O-97%M	0.681
30.00	HOCM-30%O-70%M	0.421
2.00	Heavy Oil	0.028

Total Length: 100.00 ft

Total Volume: 1.130 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

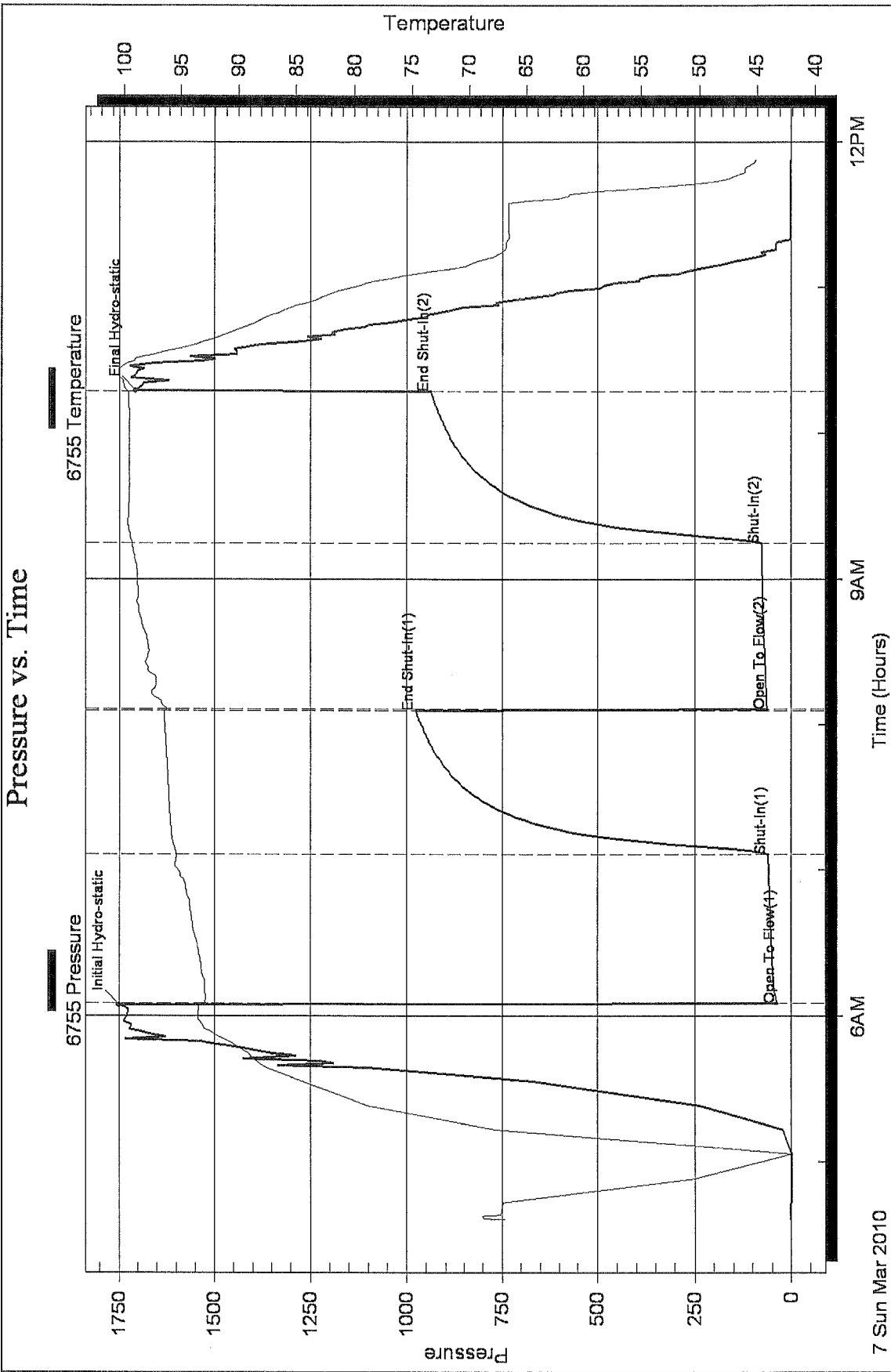
Serial #:

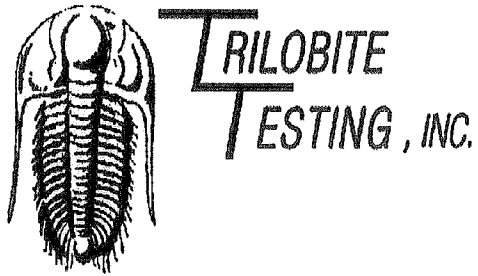
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil Inc**

PO Box 641  
Hays, KS 67601

ATTN: Tony Richardson

**7-6s-19w Rooks KS**

**Brewer RTF Unit**

Start Date: 2010.03.07 @ 17:37:58

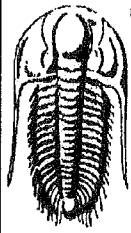
End Date: 2010.03.08 @ 00:59:58

Job Ticket #: 38086                      DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

ATTN: Tony Richardson

Job Ticket: 38086

**DST#: 6**

Test Start: 2010.03.07 @ 17:37:58

## GENERAL INFORMATION:

Formation: "H-I-J-K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:17:28

Time Test Ended: 00:59:58

Test Type: Conventional Straddle

Tester: Jason McLemore

Unit No: 32

Interval: 3412.00 ft (KB) To 3503.00 ft (KB) (TVD)

Reference Elevations: 2097.00 ft (KB)

Total Depth: 3576.00 ft (KB) (TVD)

2089.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8360**

Inside

Press@RunDepth: 64.04 psig @ 3415.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.03.07 End Date: 2010.03.08

Last Calib.: 2010.03.07

Start Time: 17:38:00 End Time: 00:59:58

Time On Btm: 2010.03.07 @ 19:17:08

Time Off Btm: 2010.03.07 @ 23:25:28

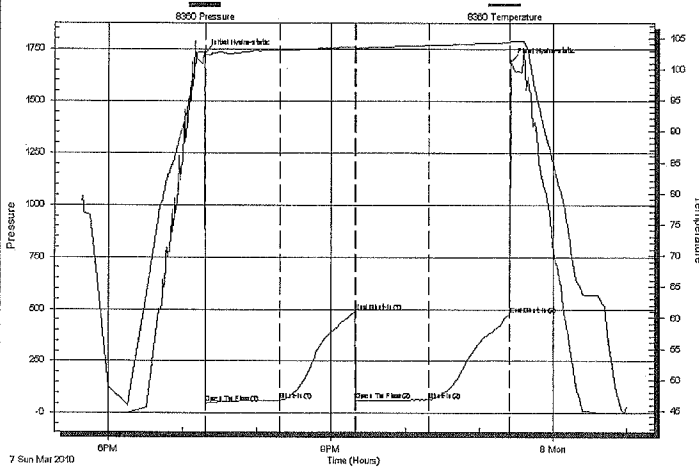
TEST COMMENT: IFP-Weak Blow ,Built to 1-3/4"

ISI-Dead

FFP-Weak Blow ,Built to 3/4"

FFP-Dead

Pressure vs. Time



## PRESSURE SUMMARY

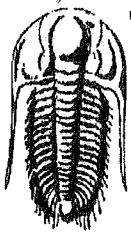
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.93	102.89	Initial Hydro-static
1	50.09	101.76	Open To Flow (1)
62	61.32	103.07	Shut-In(1)
123	489.07	103.59	End Shut-In(1)
124	61.43	103.45	Open To Flow (2)
182	64.04	103.81	Shut-In(2)
248	474.73	104.31	End Shut-In(2)
249	1691.63	104.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	MCO-50%O-50%M	0.36

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38086

**DST#: 6**

ATTN: Tony Richardson

Test Start: 2010.03.07 @ 17:37:58

**Tool Information**

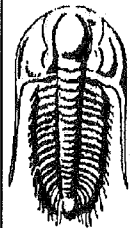
Drill Pipe:	Length: 3393.00 ft	Diameter: 3.80 inches	Volume: 47.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<b>Total Volume: 47.74 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3412.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	3503.00 ft			
Interval between Packers:	91.00 ft			
Tool Length:	184.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3392.00	
Shut In Tool	5.00			3397.00	
Hydraulic tool	5.00			3402.00	
Packer	5.00			3407.00	21.00 Bottom Of Top Packer
Packer	5.00			3412.00	
Stubb	1.00			3413.00	
Perforations	1.00			3414.00	
Change Over Sub	1.00			3415.00	
Recorder	0.00	8360	Inside	3415.00	
Recorder	0.00	8651	Outside	3415.00	
Blank Spacing	63.00			3478.00	
Change Over Sub	1.00			3479.00	
Perforations	20.00			3499.00	
Blank Off Sub	1.00			3500.00	
Blank Spacing	3.00			3503.00	91.00 Tool Interval
Packer	1.00			3504.00	
Recorder	0.00	6755	Below	3504.00	
Perforations	3.00			3507.00	
Change Over Sub	1.00			3508.00	
Blank Spacing	63.00			3571.00	
Change Over Sub	1.00			3572.00	
Bullnose	3.00			3575.00	72.00 Bottom Packers & Anchor

**Total Tool Length: 184.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Black Diamond Oil Inc

**Brewer RTF Unit**

PO Box 641  
Hays, KS 67601

**7-6s-19w Rooks KS**

Job Ticket: 38086

**DST#: 6**

ATTN: Tony Richardson

Test Start: 2010.03.07 @ 17:37:58

## Mud and Cushion Information

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

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	MCO-50%O-50%M	0.358

Total Length: 45.00 ft      Total Volume: 0.358 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

