

## DRILL STEM TEST REPORT

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

P. O. Box 641  
Hays KS 67601

ATTN: Tony Richardson

**4-11S-33W Logan KS**

**Nollette #1**

Start Date: 2004.10.15 @ 15:37:26

End Date: 2004.10.15 @ 20:49:56

Job Ticket #: 20111                      DST #: 1

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Black Diamond Oil Inc.

**Nollette #1**

P. O. Box 641  
Hays KS 67601

**4-11S-33W Logan KS**

ATTN: Tony Richardson

Job Ticket: 20111

DST#: 1

Test Start: 2004.10.15 @ 15:37:26

## GENERAL INFORMATION:

Formation: **L/KC "I - J"**

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

Time Tool Opened: 17:05:56

Time Test Ended: 20:49:56

Test Type: **Conventional Bottom Hole**

Tester: **Rod Steinbrink**

Unit No: **22**

Interval: **4271.00 ft (KB) To 4365.00 ft (KB) (TVD)**

Total Depth: **4365.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3208.00 ft (KB)**

**3200.00 ft (CF)**

KB to GR/CF: **8.00 ft**

**Serial #: 6798**

**Inside**

Press@RunDepth: **19.78 psig @ 4272.00 ft (KB)**

Start Date: **2004.10.15**

End Date: **2004.10.15**

Start Time: **15:37:31**

End Time: **20:49:55**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

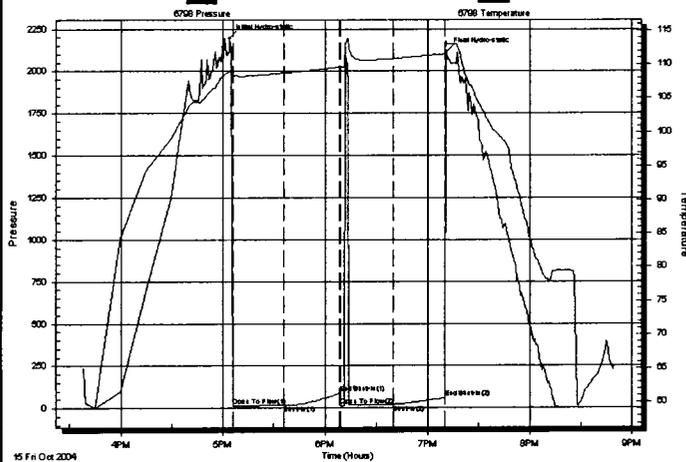
Time On Btm: **2004.10.15 @ 17:03:56**

Time Off Btm: **2004.10.15 @ 19:10:56**

TEST COMMENT: **IF; Weak 1/2" blow decreased to surface @ 30 mins**

**FF; No blow - flushed tool / good surge - weak surface return died @ 15 mins**

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2194.35	109.04	Initial Hydro-static
2	13.81	108.45	Open To Flow (1)
32	16.40	108.72	Shut-In(1)
65	87.76	109.61	End Shut-In(1)
66	15.12	109.58	Open To Flow (2)
96	19.78	110.83	Shut-In(2)
126	57.88	111.55	End Shut-In(2)
127	2118.87	113.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig. Mud w/specks of oil in tool	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc.

**Nollette #1**

P. O. Box 641  
Hays KS 67601

**4-11S-33W Logan KS**

Job Ticket: 20111

**DST#: 1**

ATTN: Tony Richardson

Test Start: 2004.10.15 @ 15:37:26

### Tool Information

Drill Pipe:	Length: 4266.00 ft	Diameter: 3.80 inches	Volume: 59.84 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<b>Total Volume: 59.84 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4271.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4255.00	
Hydraulic tool	5.00			4260.00	
Safety Joint	2.00			4262.00	
Packer	5.00			4267.00	21.00 Bottom Of Top Packer
Packer	4.00			4271.00	
Stubb	1.00			4272.00	
Recorder	0.00	6798	Inside	4272.00	
Perforations	24.00			4296.00	
Change Over Sub	1.00			4297.00	
Anchor	62.00			4359.00	
Change Over Sub	1.00			4360.00	
Recorder	0.00	13309	Outside	4360.00	
Bullnose	5.00			4365.00	94.00 Bottom Packers & Anchor

**Total Tool Length: 115.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Black Diamond Oil Inc.

**Nollette #1**

P. O. Box 641  
Hays KS 67601

**4-11S-33W Logan KS**

Job Ticket: 20111

**DST#: 1**

ATTN: Tony Richardson

Test Start: 2004.10.15 @ 15:37:26

**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: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig. Mud w/specks of oil in tool	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

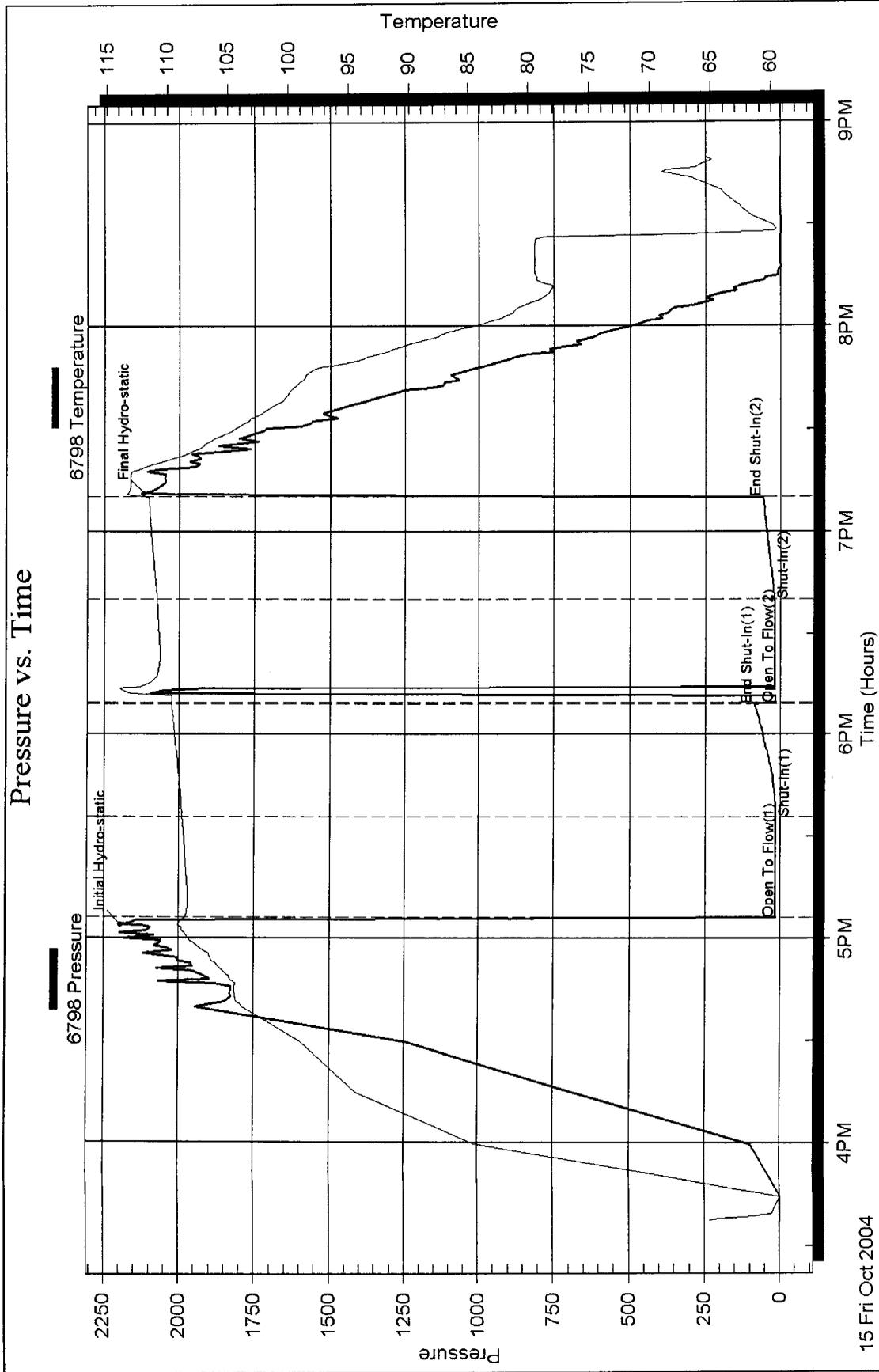
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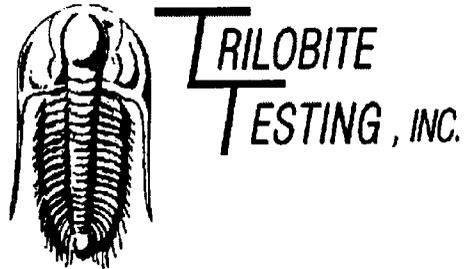
Inside

Black Diamond Oil Inc.

4-11S-33W Logan KS

DST Test Number: 1





## DRILL STEM TEST REPORT

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

P. O. Box 641  
Hays KS 67601

ATTN: Tony Richardson

**4-11S-33W Logan KS**

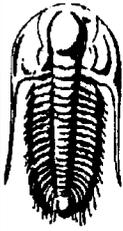
**Nollette #1**

Start Date: 2004.10.16 @ 13:08:30

End Date: 2004.10.16 @ 17:32:00

Job Ticket #: 20112                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
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**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Black Diamond Oil Inc.

**Nollette #1**

P. O. Box 641  
Hays KS 67601

**4-11S-33W Logan KS**

ATTN: Tony Richardson

Job Ticket: 20112

**DST#: 2**

Test Start: 2004.10.16 @ 13:08:30

### GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:41:45

Time Test Ended: 17:32:00

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4492.00 ft (KB) To 4544.00 ft (KB) (TVD)**

Total Depth: 4544.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3208.00 ft (KB)

3200.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6798**

Inside

Press@RunDepth: 15.24 psig @ 4493.00 ft (KB)

Start Date: 2004.10.16

End Date: 2004.10.16

Start Time: 13:08:35

End Time: 17:31:59

Capacity: 7000.00 psig

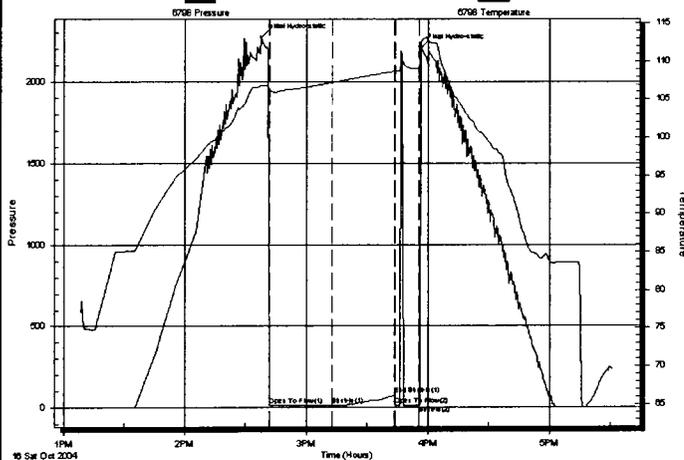
Last Calib.: 1899.12.30

Time On Btm: 2004.10.16 @ 14:37:45

Time Off Btm: 2004.10.16 @ 15:56:30

TEST COMMENT: IF; Weak 1/4" blow decreased to surface @ 30 mins  
FF; No blow - flushed tool / good surge - blow died in 3 mins

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2273.68	106.81	Initial Hydro-static
4	12.55	106.22	Open To Flow (1)
35	15.24	107.23	Shut-in(1)
66	75.60	108.71	End Shut-in(1)
66	12.40	108.69	Open To Flow (2)
78	15.50	109.15	Shut-in(2)
79	2209.94	112.42	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drlg. Mud	0.07

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc.

**Nollette #1**

P. O. Box 641  
Hays KS 67601

**4-11S-33W Logan KS**

Job Ticket: 20112

**DST#: 2**

ATTN: Tony Richardson

Test Start: 2004.10.16 @ 13:08:30

### Tool Information

Drill Pipe:	Length: 4481.00 ft	Diameter: 3.80 inches	Volume: 62.86 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 62.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4492.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4476.00	
Hydraulic tool	5.00			4481.00	
Safety Joint	2.00			4483.00	
Packer	5.00			4488.00	21.00 Bottom Of Top Packer
Packer	4.00			4492.00	
Stubb	1.00			4493.00	
Recorder	0.00	6798	Inside	4493.00	
Perforations	11.00			4504.00	
Change Over Sub	1.00			4505.00	
Anchor	31.00			4536.00	
Change Over Sub	1.00			4537.00	
Recorder	0.00	13309	Outside	4537.00	
Bullnose	5.00			4542.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Black Diamond Oil Inc.

**Nollette #1**

P. O. Box 641  
Hays KS 67601

**4-11S-33W Logan KS**

Job Ticket: 20112

**DST#: 2**

ATTN: Tony Richardson

Test Start: 2004.10.16 @ 13:08:30

**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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig. Mud	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6798

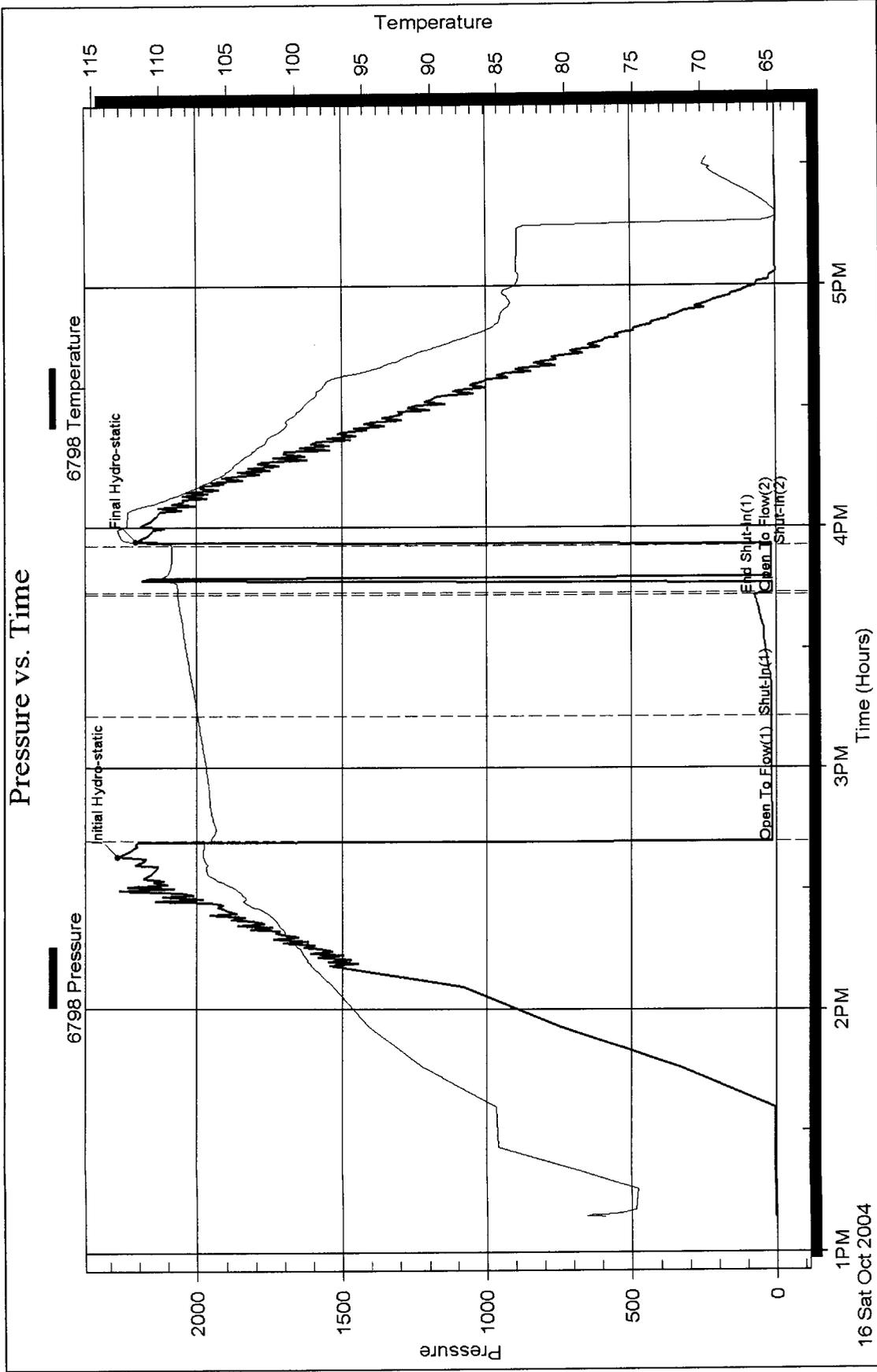
Inside

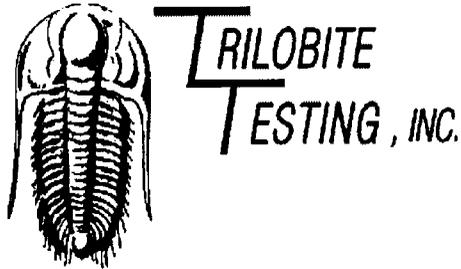
Black Diamond Oil Inc.

4-11S-33W Logan KS

DST Test Number: 2

### Pressure vs. Time





## DRILL STEM TEST REPORT

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

P. O. Box 641  
Hays KS 67601

ATTN: Tony Richardson

**4-11S-33W Logan KS**

**Nollette #1**

Start Date: 2004.10.17 @ 06:00:10

End Date: 2004.10.17 @ 13:47:55

Job Ticket #: 20113                      DST #: 3

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**TRILOBITE  
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# DRILL STEM TEST REPORT

Black Diamond Oil Inc.

**Nollette #1**

P. O. Box 641  
Hays KS 67601

**4-11S-33W Logan KS**

ATTN: Tony Richardson

Job Ticket: 20113

**DST#: 3**

Test Start: 2004.10.17 @ 06:00:10

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:41:40

Time Test Ended: 13:47:55

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4593.00 ft (KB) To 4670.00 ft (KB) (TVD)**

Total Depth: 4670.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3208.00 ft (KB)

3200.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6798**

**Inside**

Press@RunDepth: 50.61 psig @ 4594.00 ft (KB)

Start Date: 2004.10.17

End Date:

2004.10.17

Start Time: 06:00:15

End Time:

13:47:54

Capacity: 7000.00 psig

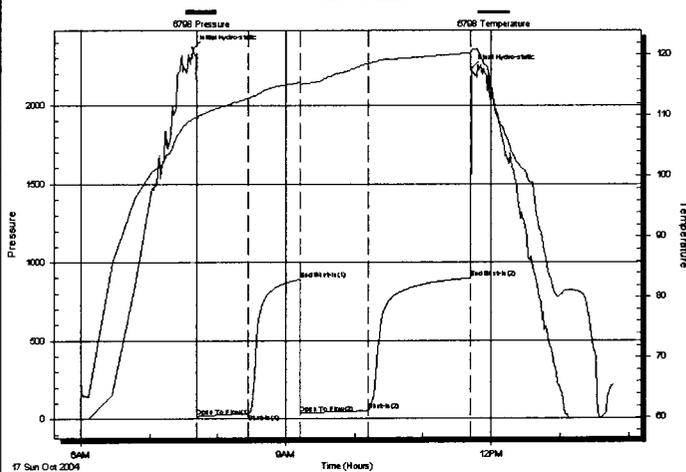
Last Calib.: 1899.12.30

Time On Btm: 2004.10.17 @ 07:38:10

Time Off Btm: 2004.10.17 @ 11:42:40

TEST COMMENT: IF; Surface blow built to 1 1/2"  
FF; Weak steady surface blow throughout

Pressure vs. Time



## PRESSURE SUMMARY

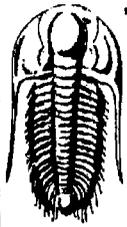
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2362.75	109.43	Initial Hydro-static
4	16.28	109.44	Open To Flow (1)
49	34.18	112.87	Shut-in(1)
94	891.10	115.45	End Shut-in(1)
95	35.19	115.25	Open To Flow (2)
154	50.61	118.56	Shut-in(2)
244	899.73	120.30	End Shut-in(2)
245	2233.38	120.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	Drig. Mud w/specks of oil @ top	1.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Black Diamond Oil Inc.

**Nollette #1**

P. O. Box 641  
Hays KS 67601

**4-11S-33W Logan KS**

Job Ticket: 20113

**DST#: 3**

ATTN: Tony Richardson

Test Start: 2004.10.17 @ 06:00:10

### Tool Information

Drill Pipe:	Length: 4603.00 ft	Diameter: 3.80 inches	Volume: 64.57 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 64.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4593.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4577.00	
Hydraulic tool	5.00			4582.00	
Safety Joint	2.00			4584.00	
Packer	5.00			4589.00	21.00 Bottom Of Top Packer
Packer	4.00			4593.00	
Stubb	1.00			4594.00	
Recorder	0.00	6798	Inside	4594.00	
Perforations	7.00			4601.00	
Change Over Sub	1.00			4602.00	
Anchor	62.00			4664.00	
Change Over Sub	1.00			4665.00	
Recorder	0.00	13309	Outside	4665.00	
Bullnose	5.00			4670.00	77.00 Bottom Packers & Anchor

**Total Tool Length: 98.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Black Diamond Oil Inc.

**Nollette #1**

P. O. Box 641  
Hays KS 67601

**4-11S-33W Logan KS**

Job Ticket: 20113

**DST#: 3**

ATTN: Tony Richardson

Test Start: 2004.10.17 @ 06:00:10

**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: 62.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
75.00	Drig. Mud w/specks of oil @ top	1.052

Total Length: 75.00 ft

Total Volume: 1.052 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

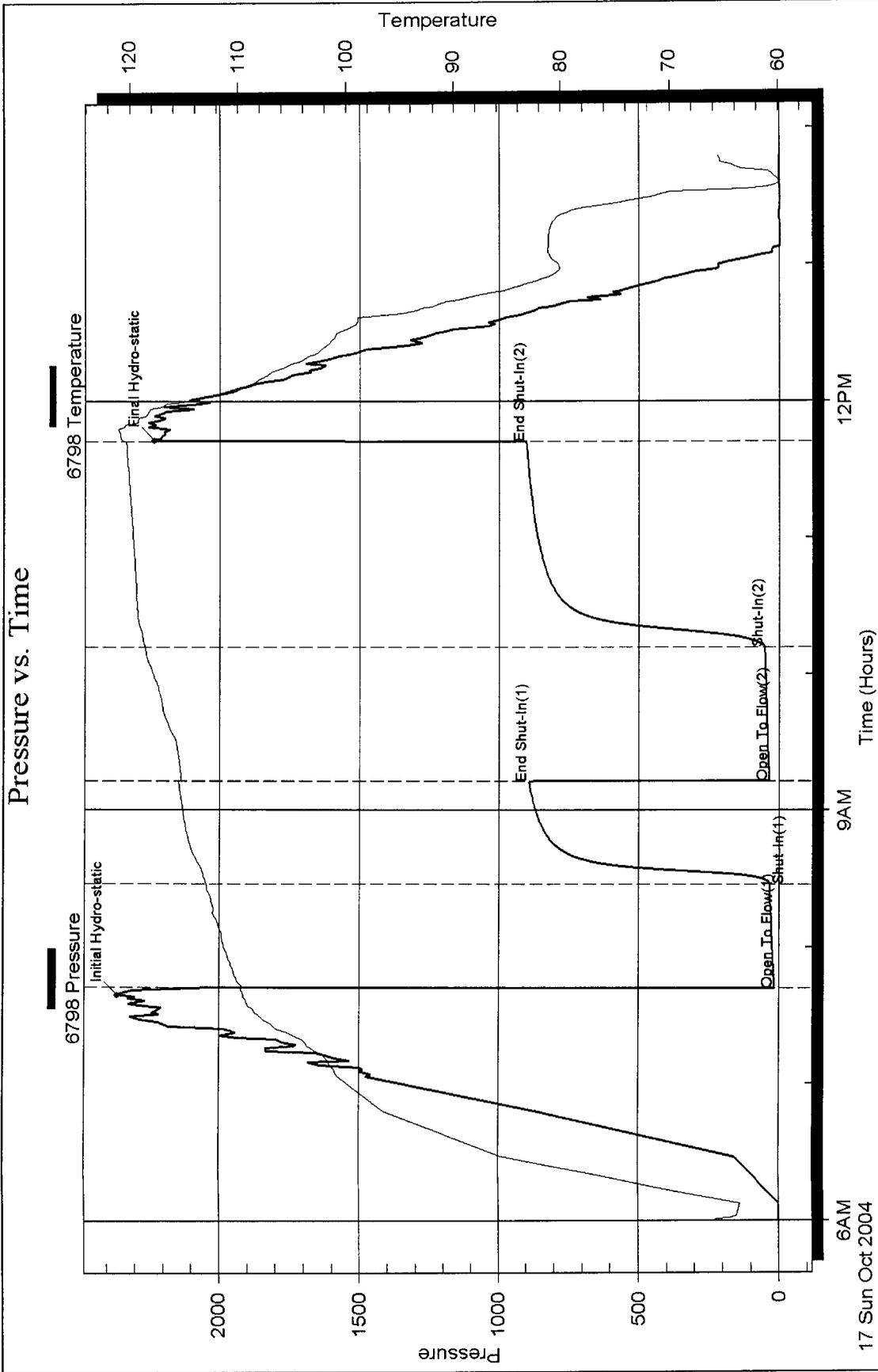
Serial #: 6798

Inside

Black Diamond Oil Inc.

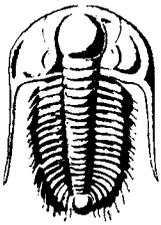
4-11S-33W Logan KS

DST Test Number: 3









# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

6870

No 20111

05/03

## Test Ticket

Well Name & No. Nollette #1 Test No. 1 Date 10-15-04  
 Company Black Diamond Oil Inc. Zone Tested L/KC 'I + J'  
 Address P.O. Box 641 Hays, KS. 67601 Elevation 3208 KB 3200 GL  
 Co. Rep / Geo. Tony Richardson Cont. Discovery #1 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 4 Twp. 11<sup>S</sup> Rge. 33<sup>W</sup> Co. Logan State KS.  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4271 - 4365 Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 55,000  
 Anchor Length 94' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 4266 Tool Weight 2,000  
 Bottom Packer Depth 4271 Hole Size 7 7/8" \_\_\_\_\_ Rubber Size 6 3/4" \_\_\_\_\_  
 Total Depth 4365 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run \_\_\_\_\_  
 Mud Wt. 9.0 LCM - Vis. 55 WL 8.8 Drill Pipe Size 4 1/2" xH Ft. Run 4266'  
 Blow Description IF: Weak 1/2" blow decreased to surface blow @ 30 mins.

FF: No blow - flushed tool / good surge - weak surface return died in 15 mins.

Recovery - Total Feet \_\_\_\_\_ GIP \_\_\_\_\_ Ft. in DC \_\_\_\_\_ Ft. in DP 10'  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. 10' Feet of Drilg. Mud %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of w/ oil specks intool %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 100 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT 111° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 6,000 ppm System

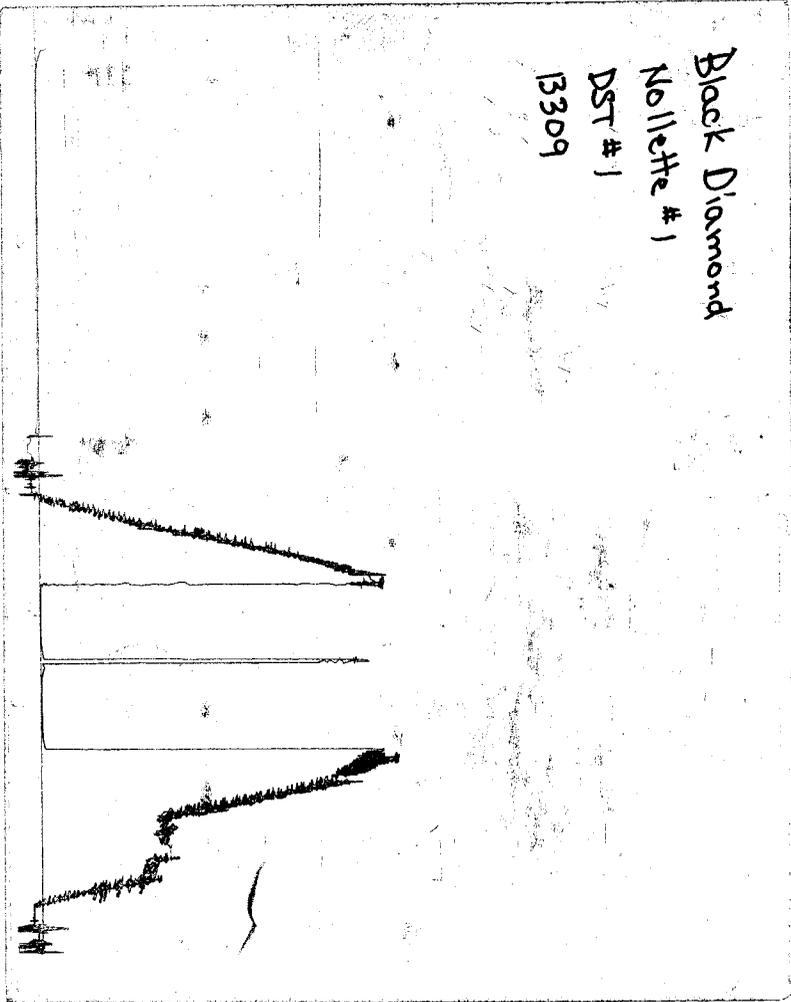
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2194</u>	PSI	<u>6798</u>	<u>1000</u>
(B) First Initial Flow Pressure	<u>13</u>	PSI	(depth) <u>4272</u>	Elec. Rec. _____
(C) First Final Flow Pressure	<u>16</u>	PSI	Recorder No. <u>13309</u>	Jars _____
(D) Initial Shut-In Pressure	<u>87</u>	PSI	(depth) <u>4360</u>	Safety Jt. <u>X</u> <u>50</u>
(E) Second Initial Flow Pressure	<u>15</u>	PSI	Recorder No. _____	Circ Sub <u>X</u> <u>N/C</u>
(F) Second Final Flow Pressure	<u>19</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>57</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2118</u>	PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>30</u>	Mileage <u>112</u> <u>1 way</u> <u>5695.20</u>
			T-On Location <u>1500</u>	Sub Total: <u>1145.20</u>
			T-Started <u>1537</u>	Std. By _____
			T-Open <u>1705</u>	Other _____
			T-Pulled <u>1909</u>	Total: <u>1145.20</u>
			T-Out <u>2049</u>	

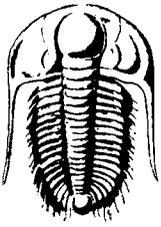
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Approved By [Signature]  
 Our Representative Rod Steinbrink

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20112

05/03

## Test Ticket

Well Name & No. Nollette #1 Test No. 2 Date 10-16-04  
 Company Black Diamond Oil Inc. Zone Tested Marmaton  
 Address P.O. Box 641 Hays, KS. 67601 Elevation 3208 KB 3200 GL  
 Co. Rep / Geo. Tony Richardson Cont. Discovery #1 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 4 Twp. 11<sup>S</sup> Rge. 33<sup>W</sup> Co. Logan State KS.  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4492 - 4544 Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 55,000  
 Anchor Length 52' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 4487 Tool Weight 2,000  
 Bottom Packer Depth 4492 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 4544 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run \_\_\_\_\_  
 Mud Wt. 9.0 LCM - Vis. 44 WL 11.4 Drill Pipe Size 4 1/2" XH Ft. Run 4481'  
 Blow Description IF: Weak 1/4" blow decreased to surface @ 30 mins.

FF: No blow - flushed tool / good surge - blow died 3 mins.

Recovery - Total Feet 5' GIP - Ft. in DC - Ft. in DP 5'  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. 5' Feet of Drlg. Mud %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT 108° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 6,500 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2273</u> PSI	<u>6798</u>	<u>1000</u>
(B) First Initial Flow Pressure		<u>12</u> PSI	(depth) <u>4493</u>	Elec. Rec. _____
(C) First Final Flow Pressure		<u>15</u> PSI	Recorder No. <u>13309</u>	Jars _____
(D) Initial Shut-In Pressure		<u>75</u> PSI	(depth) <u>4539</u>	Safety Jt. <u>X</u> <u>50</u>
(E) Second Initial Flow Pressure		<u>12</u> PSI	Recorder No. _____	Circ Sub <u>X</u> <u>N/C</u>
(F) Second Final Flow Pressure		<u>15</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>-</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>2209</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____

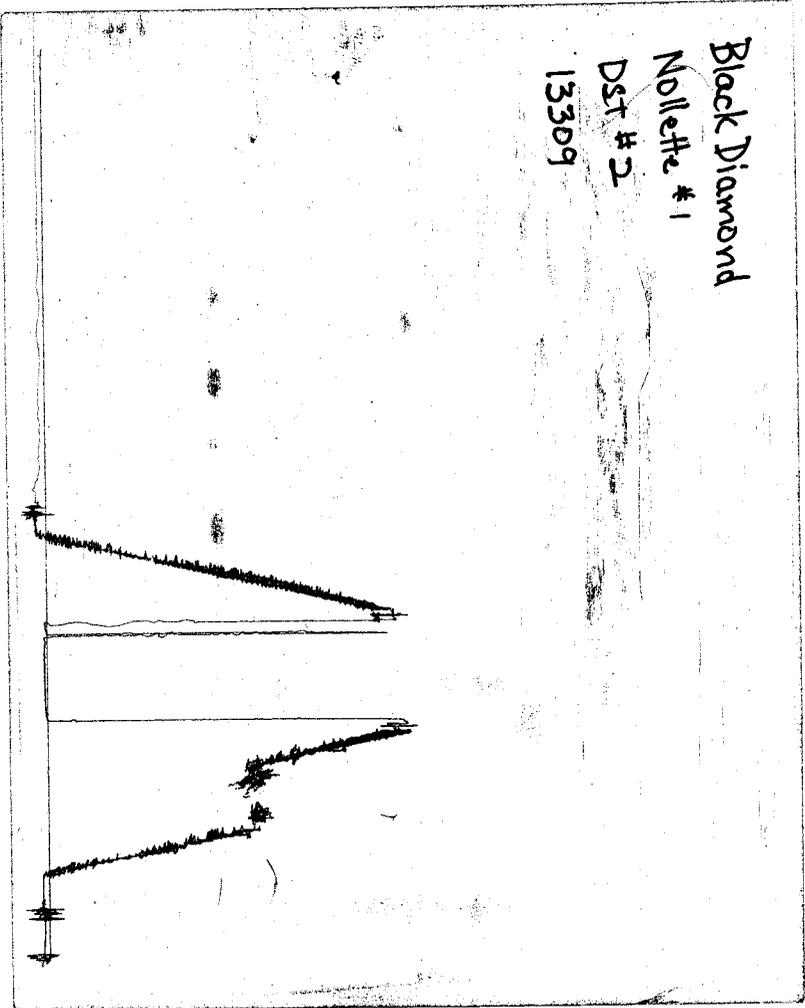
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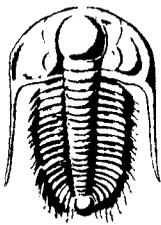
Approved By [Signature]  
 Our Representative Rod Steinbrink

Final Flow 12  
 Final Shut-In -  
 T-On Location 1230  
 T-Started 1308  
 T-Open 1441  
 T-Pulled 1555  
 T-Out 1732  
 Mileage 1 way 56 95.20  
 Sub Total: 1145.20  
 Std. By \_\_\_\_\_  
 Other \_\_\_\_\_  
 Total: 1145.20

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20113

05/03

## Test Ticket

Well Name & No. Nollette #1 Test No. 3 Date 10-17-04  
 Company Black Diamond Oil Inc. Zone Tested Johnson  
 Address P.O. Box 641 Hays, KS. 67601 Elevation 3208 KB 3200 GL  
 Co. Rep / Geo. Tony Richardson Cont. Discovery #1 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 4 Twp. 11<sup>S</sup> Rge. 33<sup>W</sup> Co. Logan State KS.  
 No. of Copies \_\_\_\_\_ Disbtribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4593 - 4670 Initial Str Wt./Lbs. 55,000 Unseated Str Wt/Lbs. 55,000  
 Anchor Length 77' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 4588 Tool Weight 2,000  
 Bottom Packer Depth 4593 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 4670 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run \_\_\_\_\_  
 Mud Wt. 9.2 LCM \_\_\_\_\_ Vis. 62 WL 8.0 Drill Pipe Size 4 1/2" XH Ft. Run 4603'  
 Blow Description IF: Surface blow built to 1 1/2"

FF: Weak steady surface blow throughout.

Recovery - Total Feet 75' GIP — Ft. in DC — Ft. in DP 75'  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. 75' Feet of Dr. lg. Mud %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of w/ Dil specks @ top %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT 120° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 7,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2362</u>	PSI	<u>6798</u>	<u>1000</u>
(B) First Initial Flow Pressure	<u>16</u>	PSI	(depth) <u>4594</u>	Elec. Rec. _____
(C) First Final Flow Pressure	<u>34</u>	PSI	Recorder No. <u>13309</u>	Jars _____
(D) Initial Shut-In Pressure	<u>891</u>	PSI	(depth) <u>4665</u>	Safety Jt. <u>X</u> <u>SD</u>
(E) Second Initial Flow Pressure	<u>35</u>	PSI	Recorder No. _____	Circ Sub <u>X</u> <u>N/C</u>
(F) Second Final Flow Pressure	<u>50</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>899</u>	PSI	<b>Initial Opening</b> <u>45</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2233</u>	PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
			Final Flow <u>90</u>	Shale Packer _____
			Final Shut-In <u>60</u>	Mileage <u>1 way 5695.20</u>

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Approved By [Signature]

Our Representative Rod Steinbrink

**T-On Location** 0530 Sub Total: 1145.20  
 T-Started 0600 Std. By \_\_\_\_\_  
 T-Open 0741 Other \_\_\_\_\_  
 T-Pulled 1141 Total: 1145.20  
 T-Out 1347

**CHART PAGE**

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