

DRILL STEM TEST REPORT

Prepared For: **Black Diamond**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

27 4 22 Norton KS

Warren #1

Start Date: 2007.04.24 @ 07:27:59

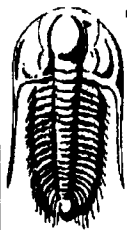
End Date: 2007.04.24 @ 13:56:59

Job Ticket #: 28242 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

Warren #1

PO Box 641
Hays KS 67601

27 4 22 Norton KS

Job Ticket: 28242

DST#: 1

ATTN: Tony Richardson

Test Start: 2007.04.24 @ 07:27:59

GENERAL INFORMATION:

Formation: **LKC- IJKL**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:51:59

Time Test Ended: 13:56:59

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 28

Interval: **3558.00 ft (KB) To 3692.00 ft (KB) (TVD)**

Reference Elevations: 2245.00 ft (KB)

Total Depth: 3692.00 ft (KB) (TVD)

2240.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 99.36 psig @ 3564.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.04.24

End Date:

2007.04.24

Last Calib.: 2007.04.24

Start Time: 07:28:04

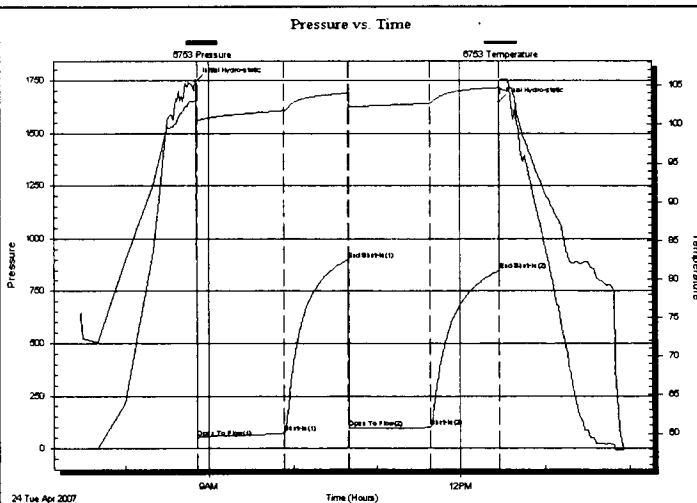
End Time:

13:56:58

Time On Btm: 2007.04.24 @ 08:50:59

Time Off Btm: 2007.04.24 @ 12:27:58

TEST COMMENT: IF Slow building 4 " Blow
ISI Dead
FF Slow building 2 " Blow
FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1747.25	102.89	Initial Hydro-static
1	52.53	100.58	Open To Flow (1)
63	72.05	101.75	Shut-In (1)
109	899.43	104.02	End Shut-In (1)
109	97.35	102.34	Open To Flow (2)
168	99.36	102.71	Shut-In (2)
217	847.02	104.72	End Shut-In (2)
217	1648.29	105.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	trace of OIL /Drilling Mud	0.94

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond

Warren #1

PO Box 641
Hays KS 67601

27 4 22 Norton KS

Job Ticket: 28242

DST#: 1

ATTN: Tony Richardson

Test Start: 2007.04.24 @ 07:27:59

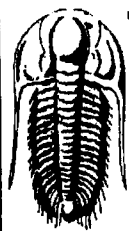
Tool Information

Drill Pipe:	Length: 3444.00 ft	Diameter: 3.80 inches	Volume: 48.31 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	48.90 bbl	Tool Chased	3.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3558.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	134.02 ft				
Tool Length:	155.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3538.00	
Shut In Tool	5.00			3543.00	
Hydraulic tool	5.00			3548.00	
Packer	5.00			3553.00	21.00 Bottom Of Top Packer
Packer	5.00			3558.00	
Stubb	1.00			3559.00	
Perforations	5.00			3564.00	
Recorder	0.01	6753	Inside	3564.01	
Drill Pipe	125.00			3689.01	
Recorder	0.01	13534	Outside	3689.02	
Bullnose	3.00			3692.02	134.02 Bottom Packers & Anchor

Total Tool Length: 155.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond

Warren #1

PO Box 641
Hays KS 67601

27 4 22 Norton KS

Job Ticket: 28242

DST#: 1

ATTN: Tony Richardson

Test Start: 2007.04.24 @ 07:27:59

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: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
145.00	trace of OIL /Drilling Mud	0.941

Total Length: 145.00 ft

Total Volume: 0.941 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

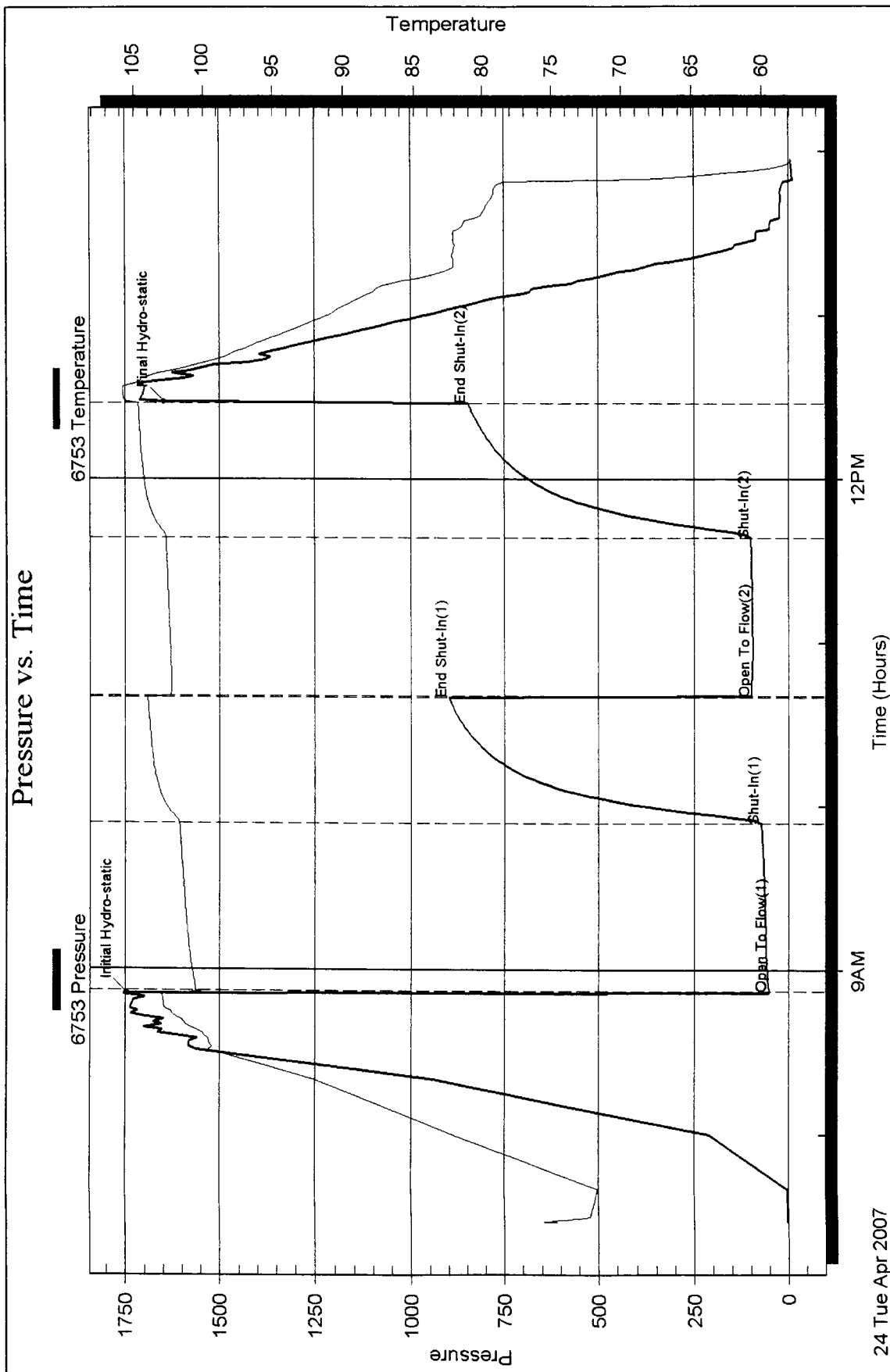
Serial #:

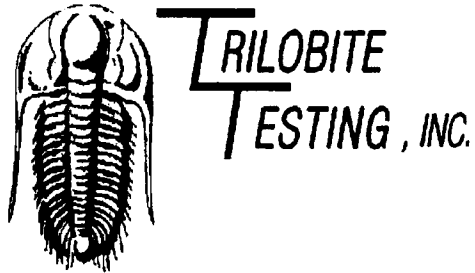
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Black Diamond**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

27 4 22 Norton KS

Warren #1

Start Date: 2007.04.24 @ 18:30:58

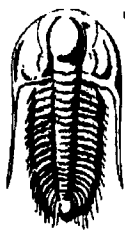
End Date: 2007.04.24 @ 22:24:28

Job Ticket #: 28243 DST #: 2

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

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

Warren #1

27 4 22 Norton KS

Job Ticket: 28243

DST#: 2

Test Start: 2007.04.24 @ 18:30:58

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:17:28

Time Test Ended: 22:24:28

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 28

Interval: **3689.00 ft (KB) To 3701.00 ft (KB) (TVD)**

Total Depth: 3701.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2245.00 ft (KB)

2240.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Press@RunDepth: psig @ ft (KB)

Start Date: 2007.04.24

End Date:

2007.04.24

Capacity: 7000.00 psig

Last Calib.: 2007.04.25

Start Time: 18:31:03

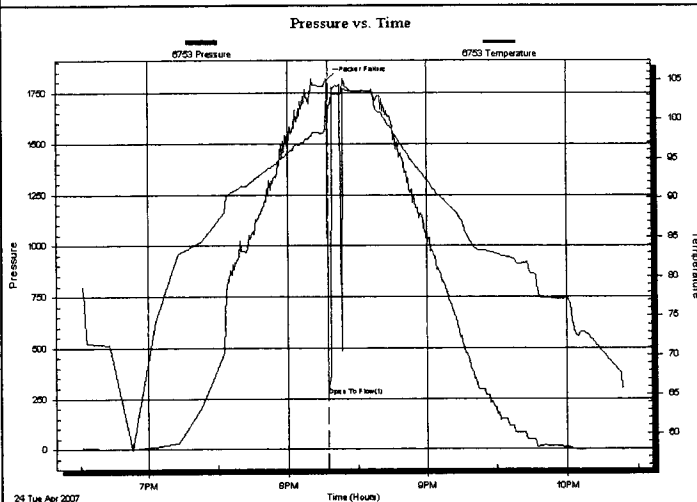
End Time:

22:24:28

Time On Btm:

Time Off Btm:

TEST COMMENT: IF PACKER FAILURE



PRESSURE SUMMARY

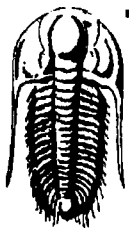
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.92	102.54	--Packer Failure
1	264.28	100.97	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Drilling Mud	2.27

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond

Warren #1

PO Box 641
Hays KS 67601

27 4 22 Norton KS

Job Ticket: 28243

DST#: 2

ATTN: Tony Richardson

Test Start: 2007.04.24 @ 18:30:58

Tool Information

Drill Pipe:	Length: 3568.00 ft	Diameter: 3.80 inches	Volume: 50.05 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	50.64 bbl	Tool Chased	1.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3689.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.02 ft				
Tool Length:	33.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3669.00	
Shut In Tool	5.00			3674.00	
Hydraulic tool	5.00			3679.00	
Packer	5.00			3684.00	21.00 Bottom Of Top Packer
Packer	5.00			3689.00	
Stubb	1.00			3690.00	
Perforations	3.00			3693.00	
Recorder	0.01	6753	Inside	3693.01	
Perforations	5.00			3698.01	
Recorder	0.01	13534	Outside	3698.02	
Bullnose	3.00			3701.02	12.02 Bottom Packers & Anchor

Total Tool Length: 33.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond

Warren #1

PO Box 641
Hays KS 67601

27 4 22 Norton KS

Job Ticket: 28243

DST#: 2

ATTN: Tony Richardson

Test Start: 2007.04.24 @ 18:30:58

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: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Drilling Mud	2.273

Total Length: 240.00 ft

Total Volume: 2.273 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

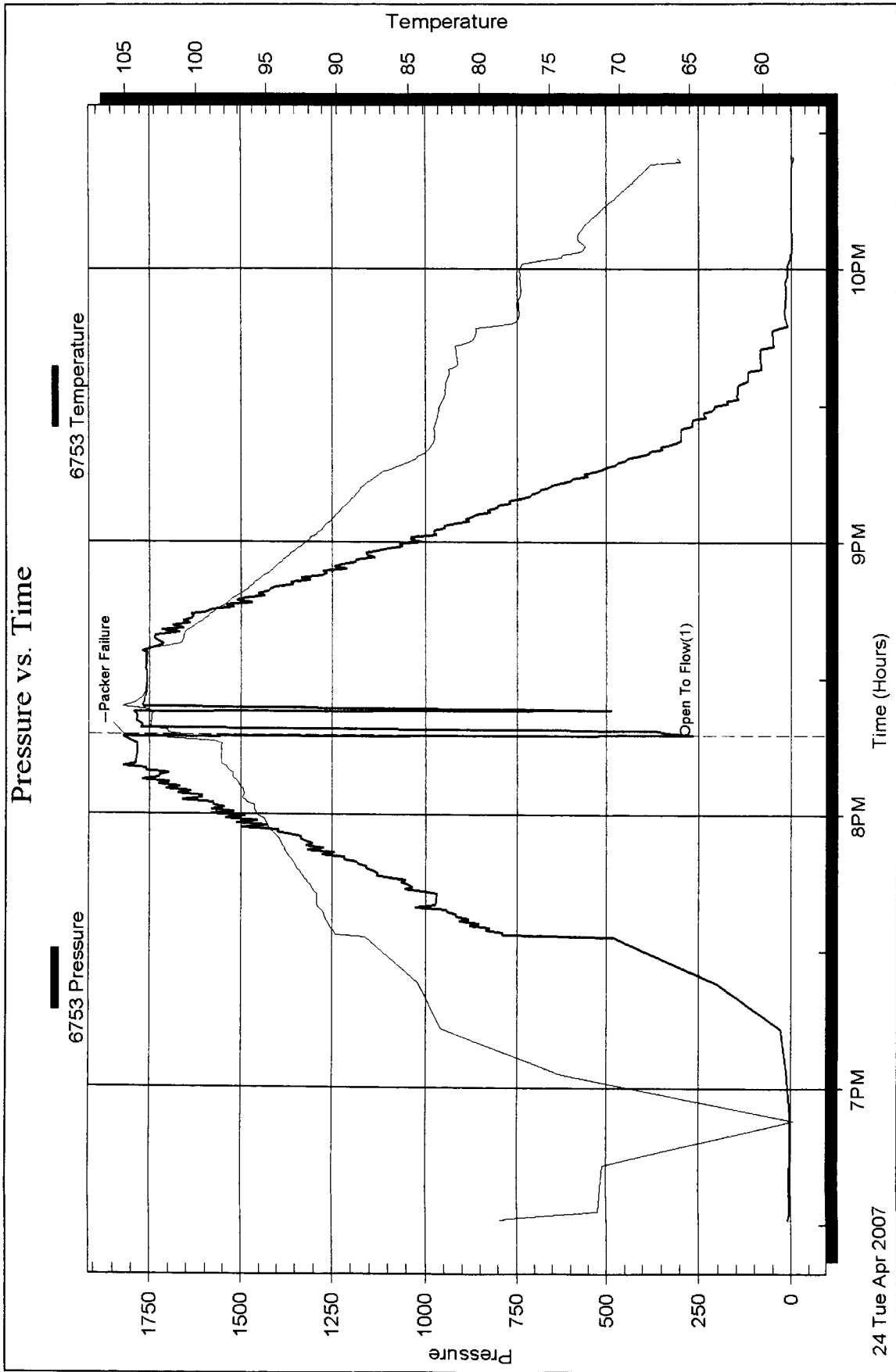
Recovery Comments:

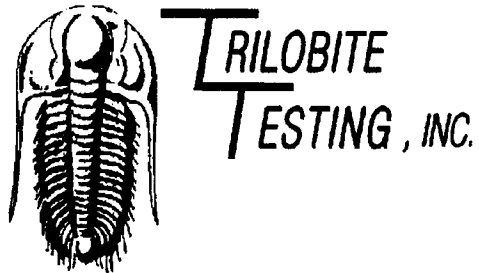
Serial #: 6753

Black Diamond

27 4 22 Norton KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Black Diamond**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

27 4 22 Norton KS

Warren #1

Start Date: 2007.04.24 @ 23:32:35

End Date: 2007.04.25 @ 04:09:35

Job Ticket #: 28244 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



Warren #1

27 4 22 Norton KS

Job Ticket: 28244

DST#: 3

Test Start: 2007.04.24 @ 23:32:35

Formation: **Gorham Sand**

Test Type: Conventional Bottom Hole

Time Tool Opened: 01:16:35

Tester: Michael Armbrister

Time Test Ended: 04:09:35

Unit No: 28

Interval: 3679.00 ft (KB) To 3701.00 ft (KB) (TVD)

Reference Elevations: 2245.00 ft (KB)

Total Depth: 3701.00 ft (KB) (TVD)

2240.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Inside

Press@RunDepth: 49.04 psig @ 3681.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.04.24

End Date:

2007.04.25

Last Calib.: 2007.04.25

Start Time: 23:32:40

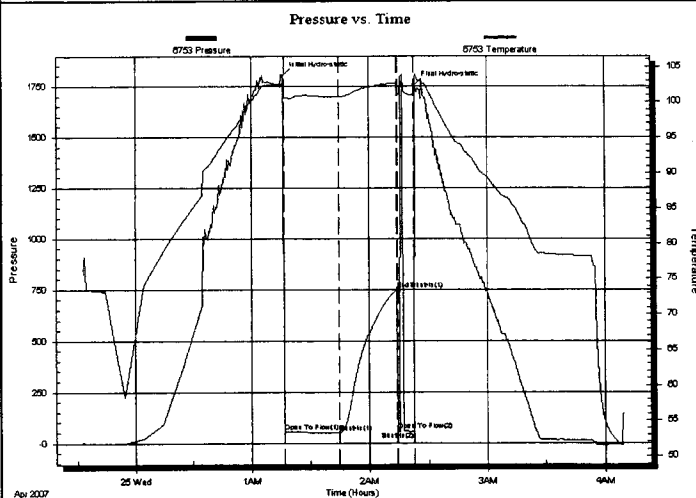
End Time:

04:09:34

Time On Btm: 2007.04.25 @ 01:16:05

Time Off Btm: 2007.04.25 @ 02:23:05

TEST COMMENT: IF Weak surface blow died 15 m
ISI Dead
FF Weak Surface blow Flushed PULLED



PRESSURE SUMMARY

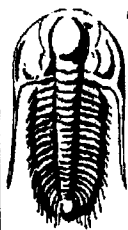
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.04	102.81	Initial Hydro-static
1	54.38	100.66	Open To Flow (1)
29	49.04	100.74	Shut-In(1)
58	751.46	102.72	End Shut-In(1)
59	57.20	101.07	Open To Flow (2)
67	56.01	101.02	Shut-In(2)
67	1755.69	103.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling mud	0.07

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond

Warren #1

PO Box 641
Hays KS 67601

27 4 22 Norton KS

Job Ticket: 28244

DST#: 3

ATTN: Tony Richardson

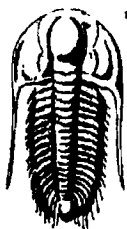
Test Start: 2007.04.24 @ 23:32:35

Tool Information

Drill Pipe:	Length: 3533.00 ft	Diameter: 3.80 inches	Volume: 49.56 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	50.15 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3679.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.02 ft				
Tool Length:	50.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3652.00	
Shut In Tool	5.00			3657.00	
Hydraulic tool	5.00			3662.00	
Jars	5.00			3667.00	
Safety Joint	2.00			3669.00	
Packer	5.00			3674.00	28.00 Bottom Of Top Packer
Packer	5.00			3679.00	
Stubb	1.00			3680.00	
Perforations	1.00			3681.00	
Recorder	0.01	6753	Inside	3681.01	
Perforations	17.00			3698.01	
Recorder	0.01	13534	Outside	3698.02	
Bullnose	3.00			3701.02	22.02 Bottom Packers & Anchor

Total Tool Length: 50.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond

Warren #1

PO Box 641
Hays KS 67601

27 4 22 Norton KS

Job Ticket: 28244

DST#: 3

ATTN: Tony Richardson

Test Start: 2007.04.24 @ 23:32:35

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: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drilling mud	0.074

Total Length: 15.00 ft

Total Volume: 0.941 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

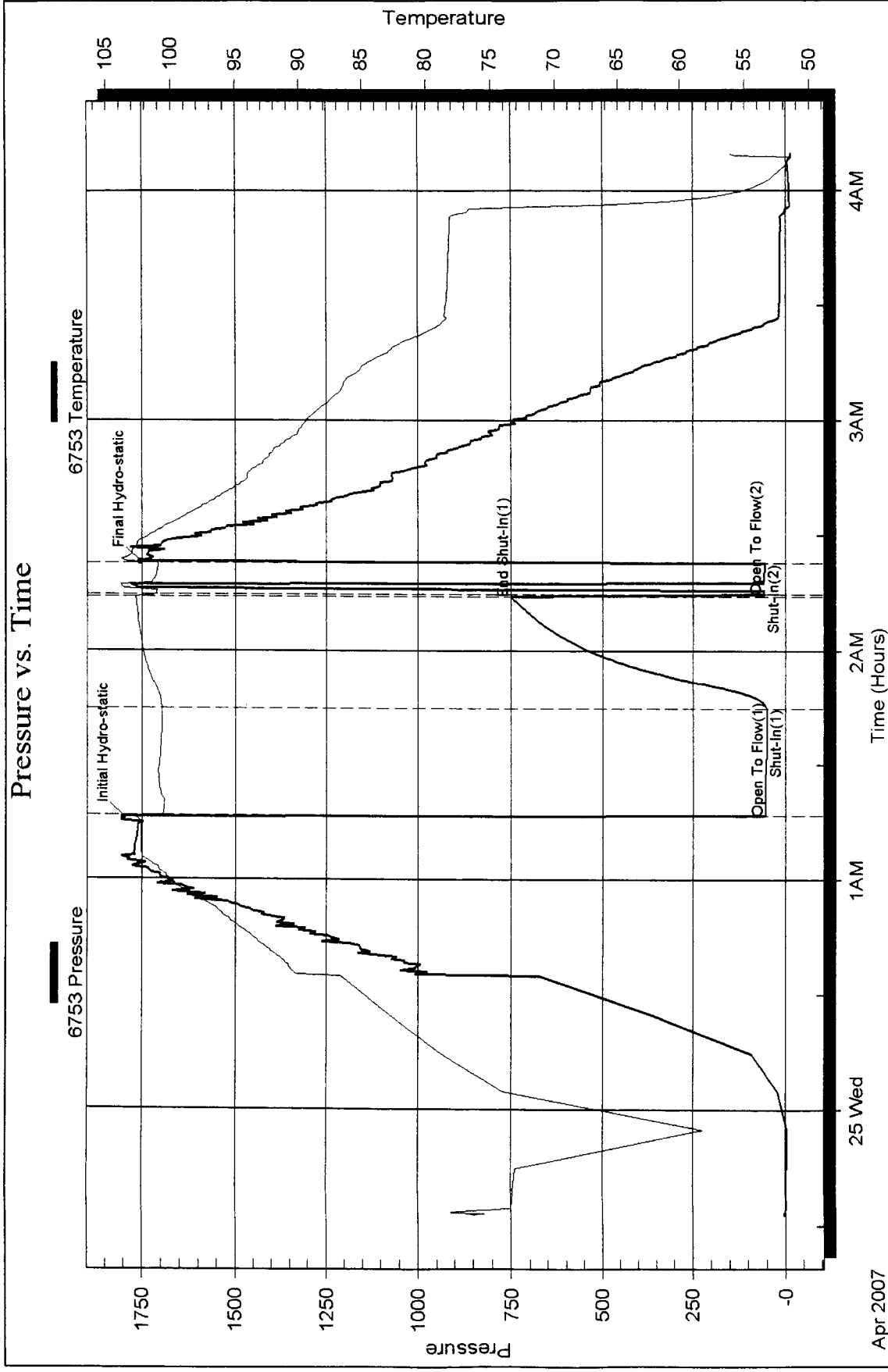
Serial #:

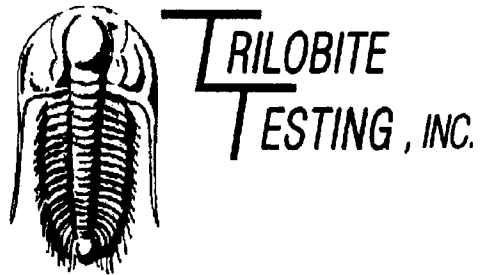
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Black Diamond**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

27 4 22 Norton KS

Warren #1

Start Date: 2007.04.25 @ 08:50:26

End Date: 2007.04.25 @ 14:03:56

Job Ticket #: 28245 DST #: 4

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

Warren #1

PO Box 641
Hays KS 67601

27 4 22 Norton KS

Job Ticket: 28245

DST#: 4

ATTN: Tony Richardson

Test Start: 2007.04.25 @ 08:50:26

GENERAL INFORMATION:

Formation: **Gorham Sand / ARB**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:43:26

Time Test Ended: 14:03:56

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 28

Interval: **3679.00 ft (KB) To 3706.00 ft (KB) (TVD)**

Reference Elevations: 2245.00 ft (KB)

Total Depth: 3706.00 ft (KB) (TVD)

2240.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 64.20 psig @ 3681.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.04.25

End Date:

2007.04.25

Last Calib.: 2007.04.25

Start Time: 08:50:31

End Time:

14:03:55

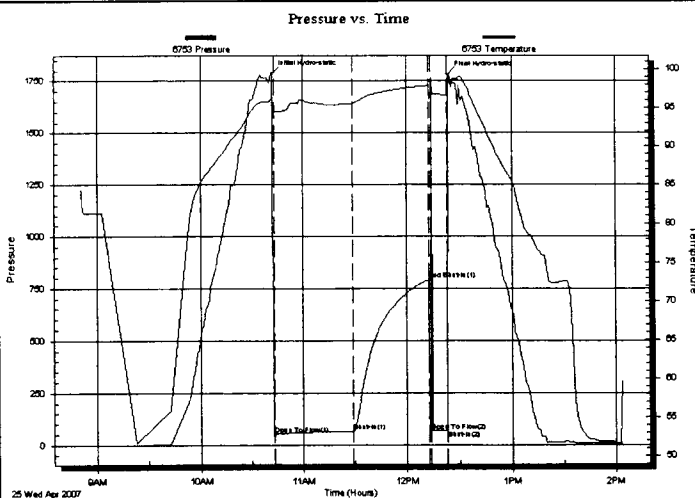
Time On Btm: 2007.04.25 @ 10:42:26

Time Off Btm: 2007.04.25 @ 12:23:26

TEST COMMENT: IF Weak surface blow died 35 m

ISI Dead

FF Flushed died 5 m PULLED



PRESSURE SUMMARY

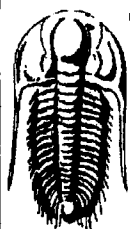
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1785.37	96.10	Initial Hydro-static
1	50.63	94.41	Open To Flow (1)
47	64.20	95.58	Shut-In (1)
90	791.60	97.85	End Shut-In (1)
91	61.94	96.40	Open To Flow (2)
101	67.88	96.69	Shut-In (2)
101	1782.41	99.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drilling mud	0.30

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond

Warren #1

PO Box 641
Hays KS 67601

27 4 22 Norton KS

Job Ticket: 28245

DST#: 4

ATTN: Tony Richardson

Test Start: 2007.04.25 @ 08:50:26

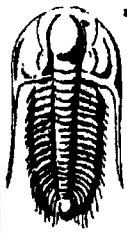
Tool Information

Drill Pipe:	Length: 3535.00 ft	Diameter: 3.80 inches	Volume: 49.59 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	60000.00 lb
			Total Volume: 50.18 bbl	Tool Chased	8.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3679.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.02 ft				
Tool Length:	56.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3651.00	
Shut In Tool	5.00			3656.00	
Hydraulic tool	5.00			3661.00	
Jars	5.00			3666.00	
Safety Joint	3.00			3669.00	
Packer	5.00			3674.00	29.00 Bottom Of Top Packer
Packer	5.00			3679.00	
Stubb	1.00			3680.00	
Perforations	1.00			3681.00	
Recorder	0.01	6753	Inside	3681.01	
Perforations	22.00			3703.01	
Recorder	0.01	13534	Outside	3703.02	
Bullnose	3.00			3706.02	27.02 Bottom Packers & Anchor

Total Tool Length: 56.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond

Warren #1

PO Box 641
Hays KS 67601

27 4 22 Norton KS

Job Ticket: 28245

DST#: 4

ATTN: Tony Richardson

Test Start: 2007.04.25 @ 08:50:26

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: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Drilling mud	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

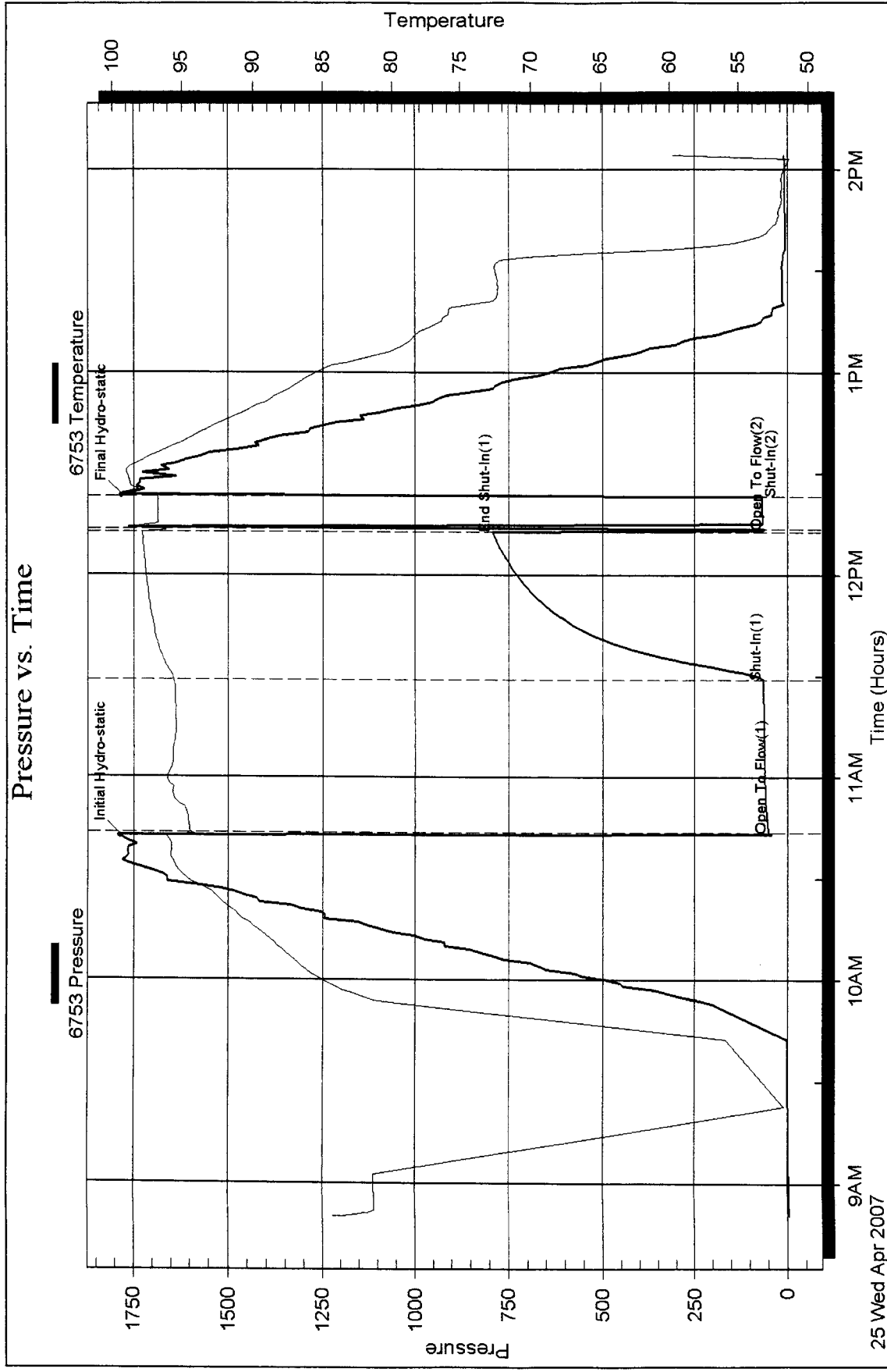
Serial #: 6753

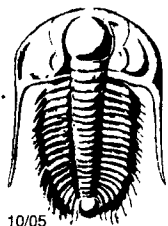
Inside

Black Diamond

27 4 22 Norton KS

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

28242

10074

Test Ticket

Well Name & No. <u>Warren #2</u>	Test No. <u>1</u>	Date <u>4-24-07</u>
Company <u>Black Diamond Oil</u>	Zone Tested <u>IJKL</u>	
Address _____	Elevation <u>2245</u> KB <u>2240</u> GL	
Co. Rep / Geo. <u>Tony Richardson</u>	Rig <u>WW-6</u>	
Location: Sec. <u>27</u> Twp. <u>4</u> Rge. <u>22</u>	Co. <u>Norton</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3558-3692</u>	Initial Str Wt./Lbs. <u>42,000</u>	Unseated Str Wt./Lbs. <u>42,000</u>
Anchor Length <u>134</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>50,000</u>
Top Packer Depth <u>3553</u>	Tool Weight <u>2,000</u>	
Bottom Packer Depth <u>3558</u>	Hole Size 7 7/8" <u>—</u>	Rubber Size 6 3/4" <u>—</u>
Total Depth <u>3692</u>	Wt. Pipe Run <u>—</u>	Drill Collar Run <u>120</u>
Mud Wt. _____ LCM _____ Vis. _____ WL _____	Drill Pipe Size <u>4 1/2</u>	Ft. Run <u>3449</u>
Blow Description <u>IF - Slow Building 4" Blow</u>		
<u>ISI - Dead</u>		
<u>EF - Slow Building 2" Blow</u>		
<u>FST - Dead</u>		

Recovery - Total Feet <u>145</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>145</u>	Feet of <u>Slight Trace 0/Drilling Mud</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>105</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides _____ ppm

(A) Initial Hydrostatic Mud	AK-1 <u>1756</u> PSI	Alpine <u>1756</u> PSI	Recorder No. <u>6753</u>	Test <u>Ran</u> <u>110</u>
(B) First Initial Flow Pressure	<u>53</u> PSI	<u>53</u> PSI	(depth) <u>3559</u>	Jars _____
(C) First Final Flow Pressure	<u>72</u> PSI	<u>72</u> PSI	Recorder No. _____	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>899</u> PSI	<u>899</u> PSI	(depth) _____	Circ Sub _____
(E) Second Initial Flow Pressure	<u>97</u> PSI	<u>97</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>99</u> PSI	<u>99</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>847</u> PSI	<u>847</u> PSI	Initial Opening <u>60</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1712</u> PSI	<u>1712</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

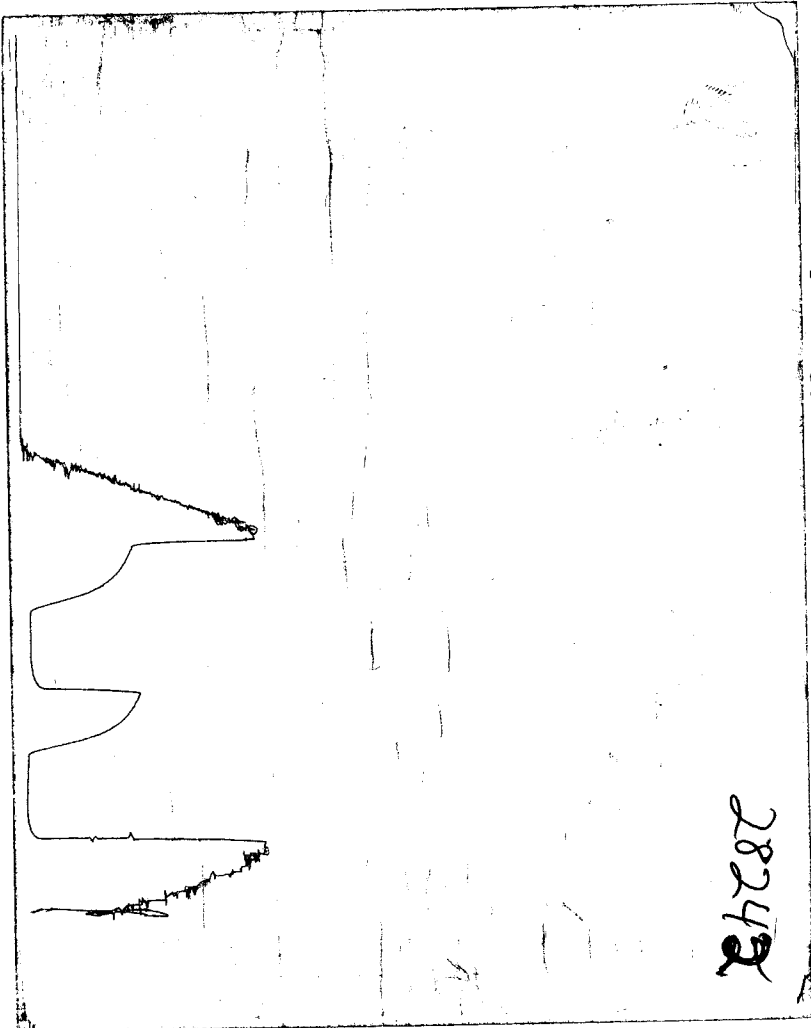
Approved By _____
Our Representative Michael Ambriester

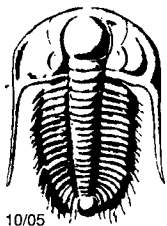
Final Flow <u>60</u>	Ruined Packer _____
Final Shut-In <u>45</u>	Mileage <u>80 x 2</u> <u>200</u>
T-On Location <u>7:00</u>	Sub Total: _____
T-Started <u>7:30</u>	Std. By _____
T-Open <u>8:55</u>	Acc. Chg: _____
T-Pulled <u>12:25</u>	Other: <u>91300</u>
T-Out <u>14:00</u>	Total: _____

CHART PAGE

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

28242





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

28243

10/05

Test Ticket

Well Name & No. <u>Warren #2</u>	Test No. <u>2</u>	Date <u>4-25-07</u>
Company <u>Black Diamond</u>	Zone Tested <u>Gorham Sand</u>	
Address _____	Elevation <u>2245</u>	KB <u>2240</u> GL _____
Co. Rep / Geo. <u>Tony Richardson</u>	Rig <u>WW-6</u>	
Location: Sec. <u>27</u> Twp. <u>4</u>	Rge. <u>22</u>	Co. <u>Norton</u> State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3689 - 3701</u>	Initial Str Wt./Lbs. <u>42,000</u>	Unseated Str Wt./Lbs. <u>42,000</u>
Anchor Length <u>12</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth <u>3684</u>	Tool Weight <u>2,000</u>	
Bottom Packer Depth <u>3689</u>	Hole Size 7 7/8" <u>—</u>	Rubber Size 6 3/4" <u>—</u>
Total Depth <u>3701</u>	Wt. Pipe Run <u>—</u>	Drill Collar Run <u>120</u>
Mud Wt. _____ LCM _____ Vis. _____ WL _____	Drill Pipe Size <u>4 1/2</u>	Ft. Run <u>3568</u>
Blow Description <u>IF - Packer Failure</u>		

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

(A) Initial Hydrostatic Mud _____	PSI _____	Recorder No. <u>4753</u>	Test <u>Ran</u> <u>Good</u>
(B) First Initial Flow Pressure _____	PSI _____	(depth) <u>3692</u>	Jars _____
(C) First Final Flow Pressure _____	PSI _____	Recorder No. _____	Safety Jt. _____
(D) Initial Shut-In Pressure _____	PSI _____	(depth) _____	Circ Sub _____
(E) Second Initial Flow Pressure _____	PSI _____	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure _____	PSI _____	(depth) _____	Straddle _____
(G) Final Shut-In Pressure _____	PSI _____	Initial Opening <u>—</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud _____	PSI _____	Initial Shut-In <u>—</u>	Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

T-On Location

T-Started 6:30
T-Open 8:15
T-Pulled 8:25
T-Out 11:00

Sub Total:

Std. By _____
Acc. Chg: \$1100
Other: _____
Total: _____

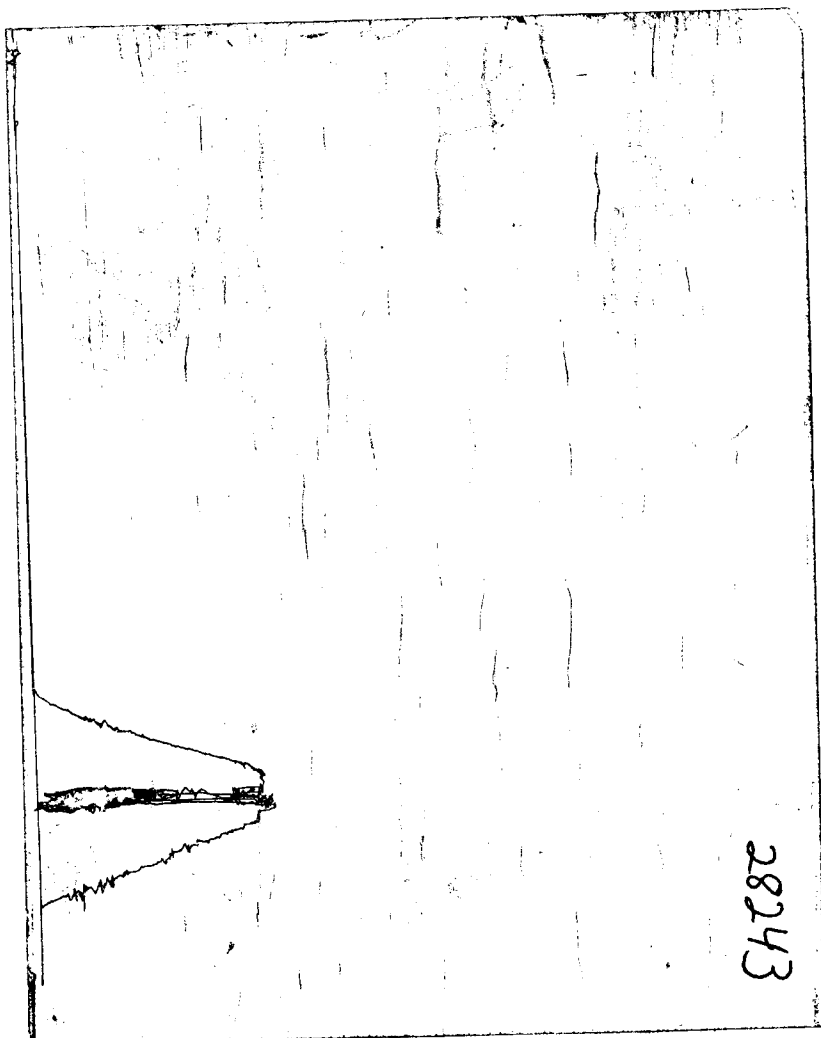
Approved By _____

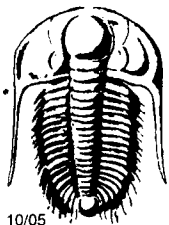
Our Representative Michael Ambroster

CHART PAGE

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

28243





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

28244

Test Ticket

Well Name & No. <u>Warren #1</u>	Test No. <u>3</u>	Date <u>4-24-07</u>
Company <u>Black Diamond</u>	Zone Tested <u>Gorham Sand</u>	
Address _____	Elevation <u>2245</u>	KB <u>2240</u> GL _____
Co. Rep / Geo. <u>Tony Richards</u>	Rig <u>WW-6</u>	
Location: Sec. <u>27</u> Twp. <u>4</u> Rge. <u>22</u>	Co. <u>Norton</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3679-3701</u>	Initial Str Wt./Lbs. <u>42000</u>	Unseated Str Wt./Lbs. <u>42000</u>
Anchor Length <u>22</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>20000</u>
Top Packer Depth <u>3674</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3679</u>	Hole Size 7 7/8" _____	Rubber Size 6 3/4" _____
Total Depth <u>3701</u>	Wt. Pipe Run _____	Drill Collar Run <u>120</u>
Mud Wt. _____ LCM _____ Vis. _____ WL _____	Drill Pipe Size <u>4 1/2</u>	Ft. Run <u>3533</u>
Blow Description <u>IF - Weak surface Blow died 15m</u>		
<u>ISI - Dead</u>		
<u>FF - Flushed - Pulled</u>		

Recovery - Total Feet <u>15</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>15</u>	Feet of <u>Drilling Mud</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>103</u>	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____
RW _____ @ _____	*F Chlorides _____	ppm Recovery _____	Chlorides _____
			ppm System _____

(A) Initial Hydrostatic Mud	AK-1 <u>1800</u> PSI	Alpine	Recorder No. <u>6753</u>	Test <u>Ran</u> <u>1100</u>
(B) First Initial Flow Pressure	<u>54</u> PSI		(depth) <u>3683</u>	Jars _____
(C) First Final Flow Pressure	<u>49</u> PSI		Recorder No. _____	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>751</u> PSI		(depth) _____	Circ Sub _____
(E) Second Initial Flow Pressure	<u>57</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>56</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>—</u> PSI	Initial Opening <u>30</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1756</u> PSI	Initial Shut-In <u>30</u>		Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____

Our Representative Michael Armbrister

T-On Location

T-Started 24:35

T-Open 1:15

T-Pulled 2:25

T-Out 4:10

Sub Total: _____

Std. By _____

Acc. Chg: _____

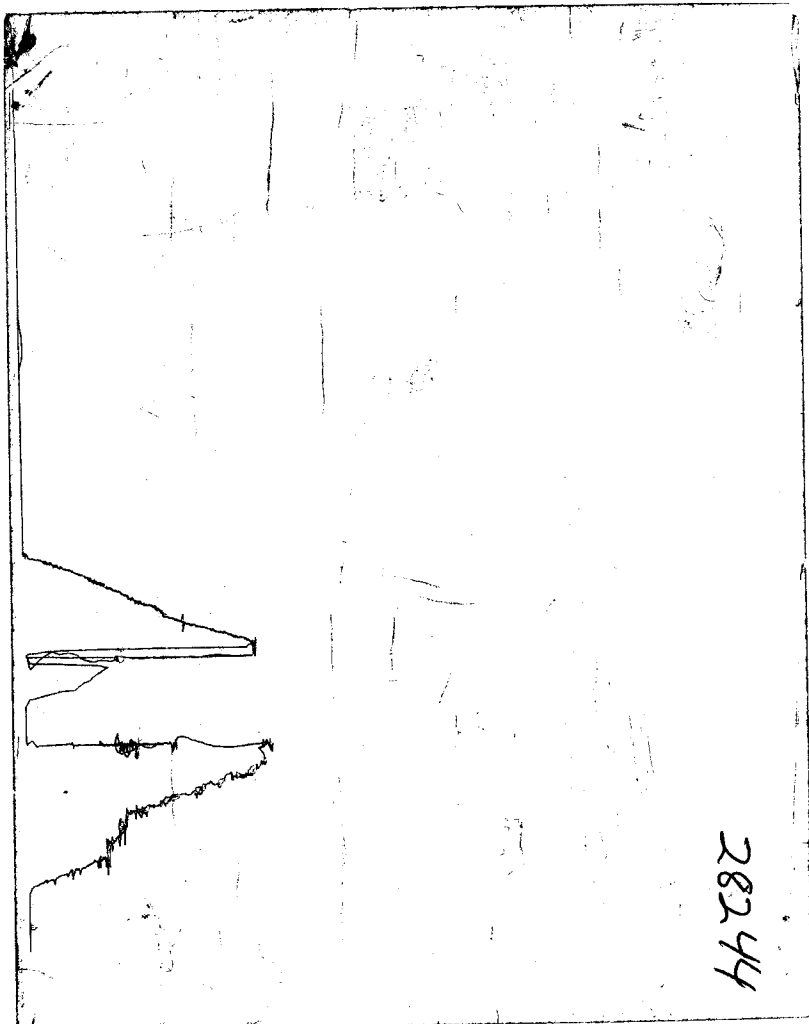
Other: 1100

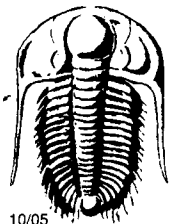
Total: _____

CHART PAGE

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

28244





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

28245

Test Ticket

Well Name & No. <u>Warren #1</u>	Test No. <u>4</u>	Date <u>4-25-07</u>
Company <u>Black Diamond</u>	Zone Tested <u>Gorham Sand / Arb</u>	
Address _____	Elevation <u>2245</u>	KB <u>2240</u> GL _____
Co. Rep / Geo. <u>Tony Richardson</u>	Rig <u>WW-6</u>	
Location: Sec. <u>27</u> Twp. <u>4</u> Rge. <u>22</u>	Co. <u>Norton</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3679-3706</u>	Initial Str Wt./Lbs. <u>42,000</u>	Unseated Str Wt./Lbs. <u>42,000</u>
Anchor Length <u>27</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth <u>3674</u>	Tool Weight <u>2,000</u>	
Bottom Packer Depth <u>3679</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3706</u>	Wt. Pipe Run <u>—</u>	Drill Collar Run <u>120</u>
Mud Wt. _____ LCM _____ Vis. _____ WL _____	Drill Pipe Size <u>4 1/2</u>	Ft. Run <u>3535</u>
Blow Description <u>IF - Weak surface Blow died 35m</u>		
<u>2st - Dead</u>		
<u>FF - Dead Flushed died 5m</u>		

Recovery - Total Feet <u>60</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>60</u>	Feet of <u>Drilling Mud</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>98</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides _____ ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1812</u> PSI	Recorder No. <u>6753</u>	Test <u>Ran</u> <u>1100</u>
(B) First Initial Flow Pressure	<u>51</u> PSI	(depth) <u>3684</u>	Jars _____
(C) First Final Flow Pressure	<u>64</u> PSI	Recorder No. _____	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>792</u> PSI	(depth) _____	Circ Sub _____
(E) Second Initial Flow Pressure	<u>62</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>68</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	_____ PSI	Initial Opening <u>45</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1782</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____

Our Representative Michael Ambriester

T-On Location

T-Started 8:50
T-Open 10:45
T-Pulled 12:30
T-Out 13:55

Sub Total: _____
Std. By _____
Acc. Chg: \$1300
Other: _____
Total: _____

CHART PAGE

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

