

15-163-23561

Black Diamond Oil

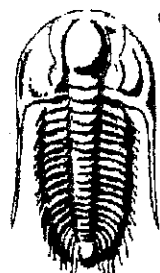
Whisman A-1

28 10 16 Rooks KS

DST # 1

Topoka

2006.11.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

28 10 16 Rooks KS

Whisman A-1

Start Date: 2006.11.03 @ 23:26:05

End Date: 2006.11.04 @ 04:39:20

Job Ticket #: 25957 DST #: 1

15-163-23561

SW NE SW

1630 FSL 1530 FWL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

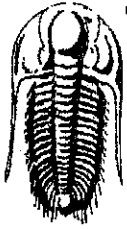
ph: 785-625-4778 fax: 785-625-5620

Printed: 2006.11.10 @ 11:54:16 Page 1

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FEB 28 2007

KCC WICHITA



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

ATTN: Tony Richardson

Job Ticket: 25957

DST#: 1

Test Start: 2006.11.03 @ 23:26:05

GENERAL INFORMATION:

Formation: **Topeka**

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

Time Tool Opened: 01:14:20

Time Test Ended: 04:39:20

Test Type: **Conventional Bottom Hole**

Tester: **Michael Armbrister**

Unit No: **32**

Interval: **3018.00 ft (KB) To 3066.00 ft (KB) (TVD)**

Total Depth: **3066.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2068.00 ft (KB)**

2060.00 ft (CF)

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

Serial #: **6719** Inside

Press@RunDepth: **50.47 psig @ 3026.00 ft (KB)**

Start Date: **2006.11.03**

End Date:

2006.11.04

Capacity: **7000.00 psig**

Last Calib.: **2006.11.04**

Start Time: **23:26:07**

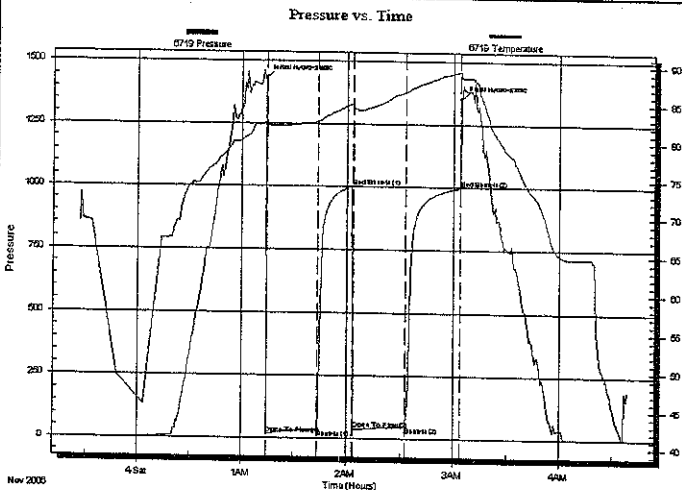
End Time:

04:39:20

Time On Btm: **2006.11.04 @ 01:14:05**

Time Off Btm: **2006.11.04 @ 03:03:50**

TEST COMMENT: IF Built to 1/2 " 3 m Died off slowly dead 23 m
ISI No blow
FF Strong surface blow
FSI Dead



PRESSURE SUMMARY

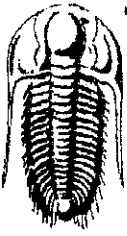
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1429.99	82.45	Initial Hydro-static
1	14.72	81.89	Open To Flow (1)
30	36.26	82.57	Shut-In(1)
49	999.75	85.01	End Shut-In(1)
50	37.95	84.74	Open To Flow(2)
79	50.47	86.55	Shut-In(2)
110	996.24	89.21	End Shut-In(2)
110	1353.25	89.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud cut Water 20%M 80%W	0.78

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25957

DST#: 1

ATTN: Tony Richardson

Test Start: 2006.11.03 @ 23:26:05

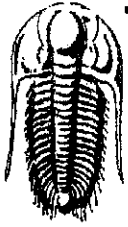
Tool Information

Drill Pipe:	Length: 2987.00 ft	Diameter: 3.80 inches	Volume: 41.90 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 32000.00 lb
			<u>Total Volume: 42.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3018.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	69.00 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			2998.00	
Shut In Tool	5.00			3003.00	
Hydraulic tool	5.00			3008.00	
Packer	5.00			3013.00	21.00 Bottom Of Top Packer
Packer	5.00			3018.00	
Stubb	1.00			3019.00	
Perforations	6.00			3025.00	
Change Over Sub	1.00			3026.00	
Recorder	0.00	6719	Inside	3026.00	
Blank Spacing	31.00			3057.00	
Change Over Sub	1.00			3058.00	
Perforations	5.00			3063.00	
Recorder	0.00	13221	Outside	3063.00	
Bullnose	3.00			3066.00	48.00 Bottom Packers & Anchor

Total Tool Length: 69.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25957

DST#: 1

ATTN: Tony Richardson

Test Start: 2006.11.03 @ 23:26:05

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

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
75.00	Mud cut Water 20%M 80%W	0.779

Total Length: 75.00 ft Total Volume: 0.779 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

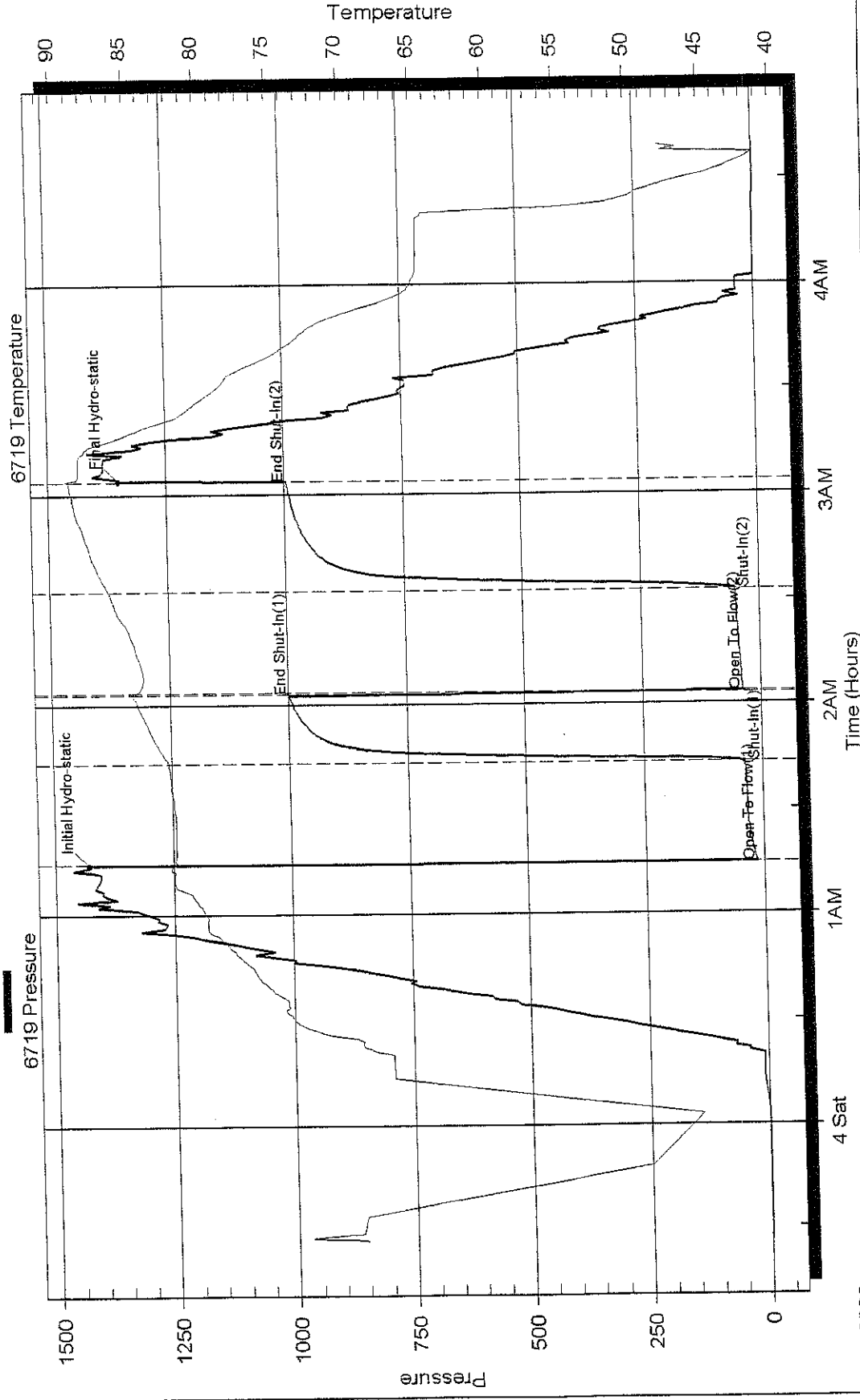
Serial #:

Laboratory Name:

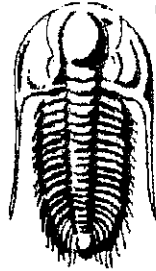
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Nov 2006



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

28 10 16 Rooks KS

Whisman A-1

Start Date: 2006.11.04 @ 18:23:28

End Date: 2006.11.05 @ 00:37:43

Job Ticket #: 25958 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Black Diamond Oil

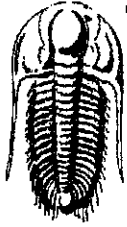
Whisman A-1

28 10 16 Rooks KS

DST # 2

For And LKC A

2006.11.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25958

DST#: 2

ATTN: Tony Richardson

Test Start: 2006.11.04 @ 18:23:28

GENERAL INFORMATION:

Formation: **Tor And LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:23:43

Time Test Ended: 00:37:43

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 32

Interval: **3228.00 ft (KB) To 3284.00 ft (KB) (TVD)**

Total Depth: 3284.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2068.00 ft (KB)

2060.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6719 Inside

Press@RunDepth: 38.30 psig @ 3236.00 ft (KB)

Start Date: 2006.11.04

End Date:

2006.11.05

Start Time: 18:23:30

End Time:

00:37:43

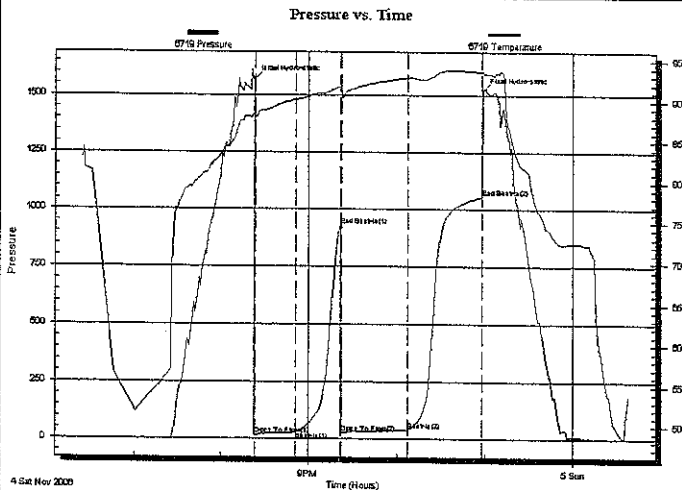
Capacity: 7000.00 psig

Last Calib.: 2006.11.05

Time On Btmr: 2006.11.04 @ 20:23:13

Time Off Btmr: 2006.11.04 @ 22:58:43

TEST COMMENT: IF Blow built to 1 "
ISI Dead
FF Blow built slowly to 6 "
FSI Dead



PRESSURE SUMMARY

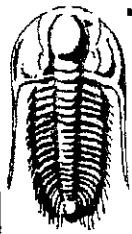
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1567.05	88.36	Initial Hydro-static
1	17.99	88.18	Open To Flow (1)
29	28.11	90.19	Shut-In(1)
59	928.60	91.79	End Shut-In(1)
59	27.83	91.56	Open To Flow (2)
105	38.30	92.86	Shut-In(2)
155	1054.97	93.63	End Shut-In(2)
156	1517.00	93.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Gas&Ocut M 10%G 20%O 70%M	0.64
5.00	Clean Oil	0.07
0.00	150 Gip	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

ATTN: Tony Richardson

Job Ticket: 25958 **DST#: 2**
Test Start: 2006.11.04 @ 18:23:28

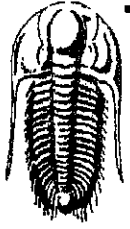
Tool Information

Drill Pipe:	Length: 3205.00 ft	Diameter: 3.80 inches	Volume: 44.96 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: 2000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 32000.00 lb
			<u>Total Volume: 45.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: initial 32000.00 lb
Depth to Top Packer:	3228.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	77.00 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			3208.00	
Shut In Tool	5.00			3213.00	
Hydraulic tool	5.00			3218.00	
Packer	5.00			3223.00	21.00 Bottom Of Top Packer
Packer	5.00			3228.00	
Stubb	1.00			3229.00	
Perforations	6.00			3235.00	
Change Over Sub	1.00			3236.00	
Recorder	0.00	6719	Inside	3236.00	
Blank Spacing	31.00			3267.00	
Change Over Sub	1.00			3268.00	
Perforations	13.00			3281.00	
Recorder	0.00	13221	Outside	3281.00	
Bullnose	3.00			3284.00	56.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

ATTN: Tony Richardson

Job Ticket: 25958

DST#: 2

Test Start: 2006.11.04 @ 18:23:28

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 8.76 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Gas&Ocut M 10%G 20%O 70%M	0.638
5.00	Clean Oil	0.070
0.00	150 Gip	0.000

Total Length: 70.00 ft Total Volume: 0.708 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

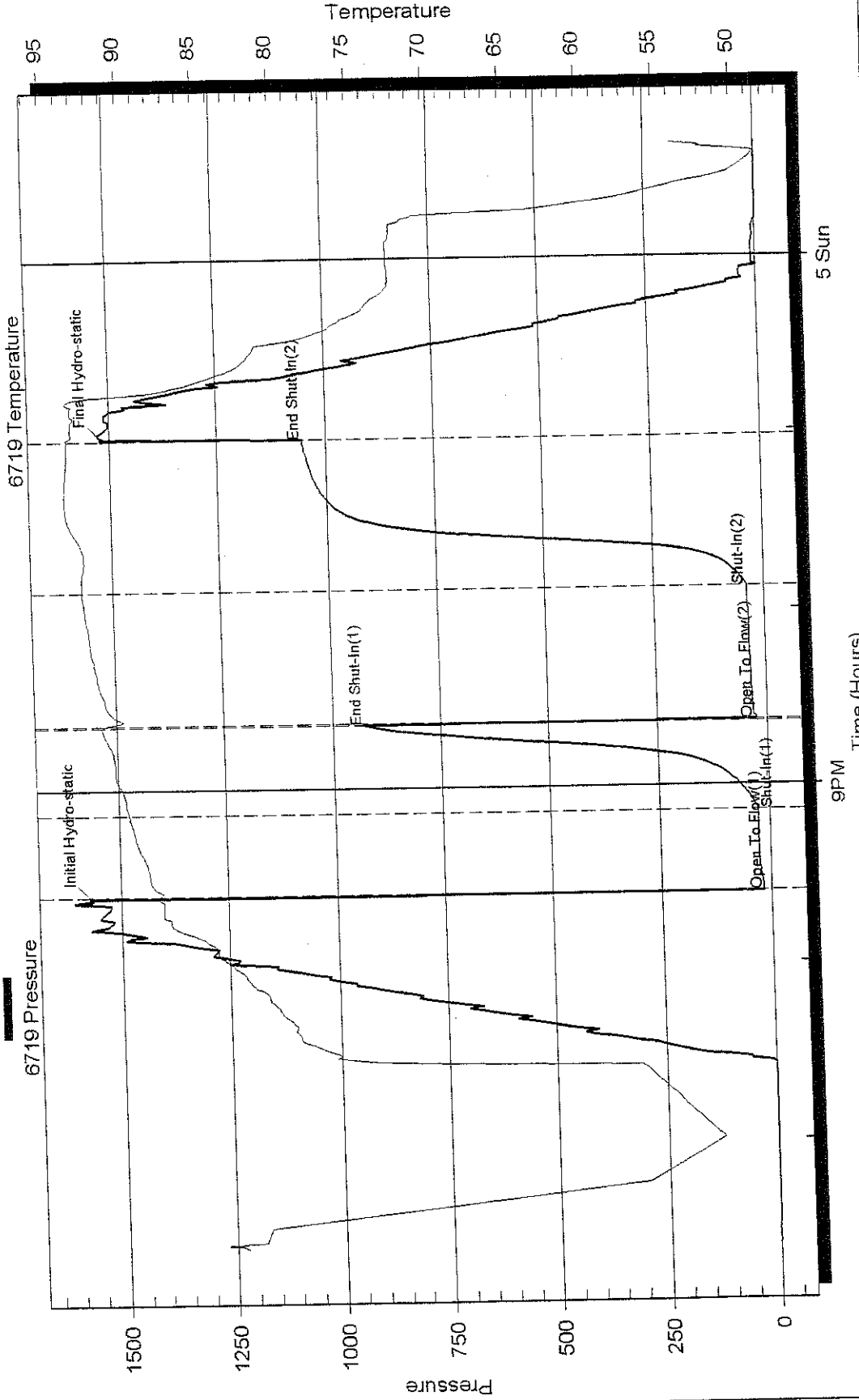
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

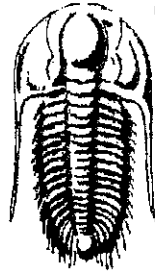
Pressure vs. Time



4 Sat Nov 2006

9PM

5 Sun



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

28 10 16 Rooks KS

Whisman A-1

Start Date: 2006.11.05 @ 09:36:51

End Date: 2006.11.05 @ 15:54:51

Job Ticket #: 25959 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Black Diamond Oil

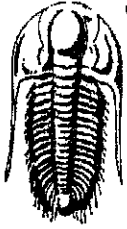
Whisman A-1

28 10 16 Rooks KS

DST # 3

LKC-"D"

2006.11.05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

ATTN: Tony Richardson

Job Ticket: 25959

DST#: 3

Test Start: 2006.11.05 @ 09:36:51

GENERAL INFORMATION:

Formation: **LKC-"D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:11:36
 Time Test Ended: 15:54:51

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

Interval: **3319.00 ft (KB) To 3348.00 ft (KB) (TVD)**
 Total Depth: 3348.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2068.00 ft (KB)
 2060.00 ft (CF)
 KB to GR/CF: 8.00 ft

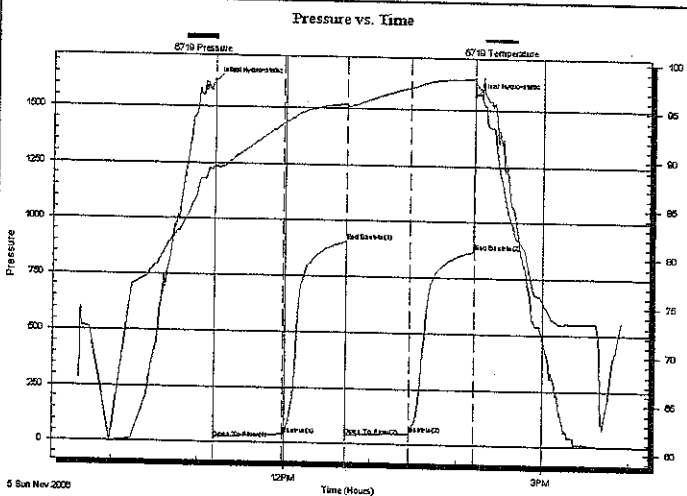
Serial #: 6719

Inside

Press@RunDepth: 49.69 psig @ 3326.00 ft (KB)
 Start Date: 2006.11.05 End Date: 2006.11.05
 Start Time: 09:36:53 End Time: 15:54:51

Capacity: 7000.00 psig
 Last Calib.: 2006.11.05
 Time On Btm: 2006.11.05 @ 11:11:21
 Time Off Btm: 2006.11.05 @ 14:11:51

TEST COMMENT: IFF Good Blow BOB in 37 Min.
 ISI Weak Surface Blow back for 10 Minutes
 FFP Good Blow Built to 11 "
 FSI Blow back Built to 1/4 "



PRESSURE SUMMARY

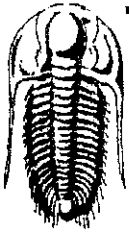
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1612.95	89.28	Initial Hydro-static
1	15.93	88.86	Open To Flow (1)
48	37.77	93.61	Shut-In(1)
91	906.17	95.67	End Shut-In(1)
92	36.00	95.49	Open To Flow (2)
136	49.69	97.38	Shut-In(2)
181	868.63	98.37	End Shut-In(2)
181	1560.62	98.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCMW 10%G 15%O 55%W 20%M	0.15
30.00	50%O 35%W 15%M	0.42
30.00	Clean Oil	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25959

DST#: 3

ATTN: Tony Richardson

Test Start: 2006.11.05 @ 09:36:51

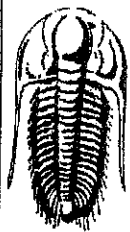
Tool Information

Drill Pipe:	Length: 3299.00 ft	Diameter: 3.80 inches	Volume: 46.28 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 35000.00 lb
			<u>Total Volume: 46.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3319.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	50.00 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			3299.00	
Shut In Tool	5.00			3304.00	
Hydraulic tool	5.00			3309.00	
Packer	5.00			3314.00	21.00 Bottom Of Top Packer
Packer	5.00			3319.00	
Stubb	1.00			3320.00	
Perforations	6.00			3326.00	
Recorder	0.00	6719	Inside	3326.00	
Perforations	19.00			3345.00	
Recorder	0.00	13221	Outside	3345.00	
Bullnose	3.00			3348.00	29.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25959

DST#: 3

ATTN: Tony Richardson

Test Start: 2006.11.05 @ 09:36:51

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.97 in³

Resistivity: ohm.m

Salinity: 4500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 36 deg API

Water Salinity: 38000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCMW 10%G 15%O 55%W 20%M	0.148
30.00	50%O 35%W 15%M	0.421
30.00	Clean Oil	0.421

Total Length: 90.00 ft Total Volume: 0.990 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

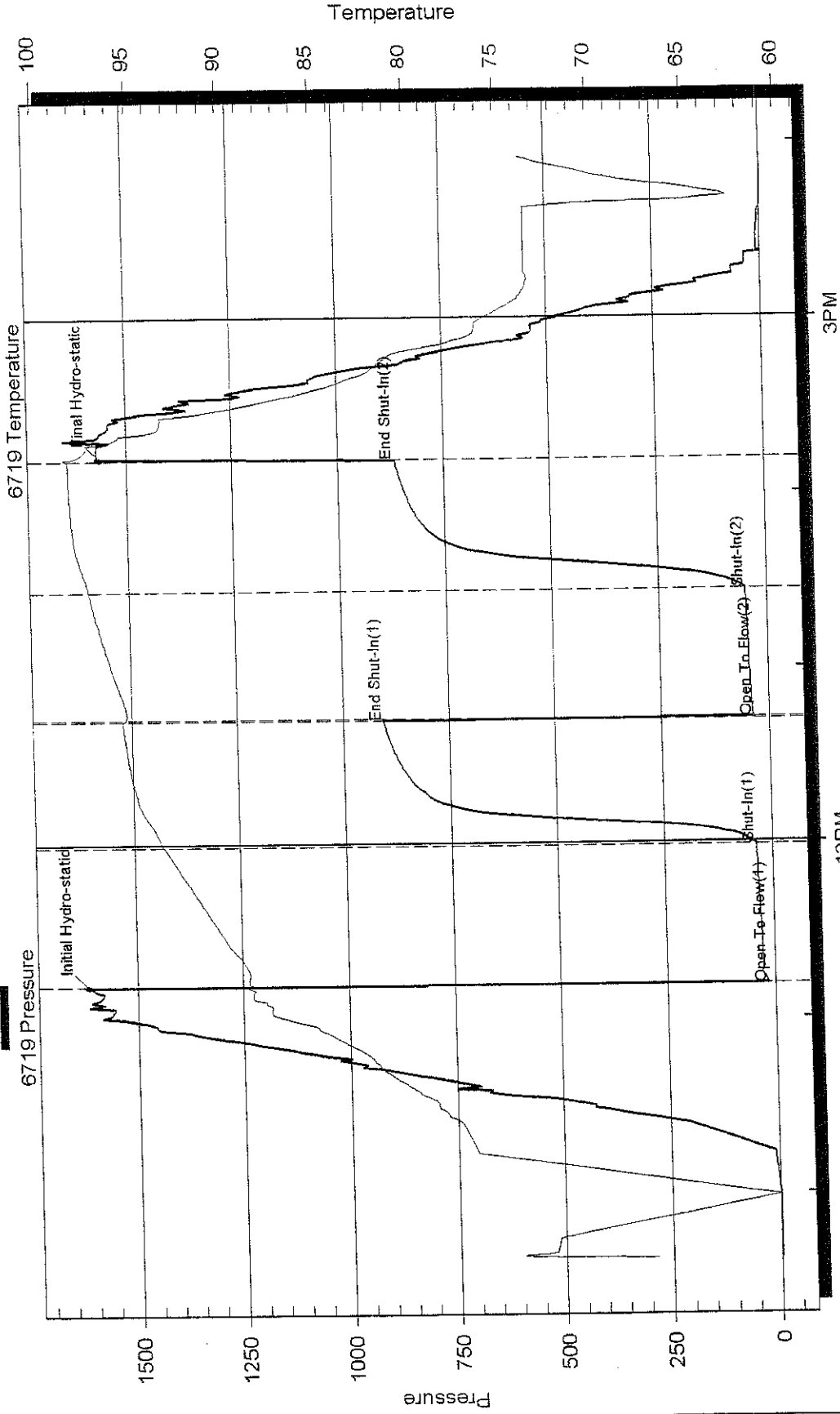
Serial #:

Laboratory Name:

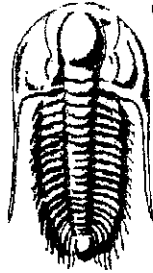
Laboratory Location:

Recovery Comments:

Pressure vs. Time



5 Sun Nov 2006



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

28 10 16 Rooks KS

Whisman A-1

Start Date: 2006.11.05 @ 21:37:56

End Date: 2006.11.06 @ 03:57:26

Job Ticket #: 25960 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Black Diamond Oil

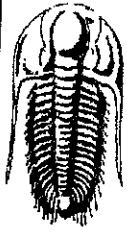
Whisman A-1

28 10 16 Rooks KS

DST # 4

LKC-"E-F"

2006.11.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25960

DST#: 4

ATTN: Tony Richardson

Test Start: 2006.11.05 @ 21:37:56

GENERAL INFORMATION:

Formation: **LKC-"E-F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:26:11
 Time Test Ended: 03:57:26

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

Interval: **3345.00 ft (KB) To 3377.00 ft (KB) (TVD)**
 Total Depth: 3377.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2068.00 ft (KB)
 2060.00 ft (CF)
 KB to GRVCF: 8.00 ft

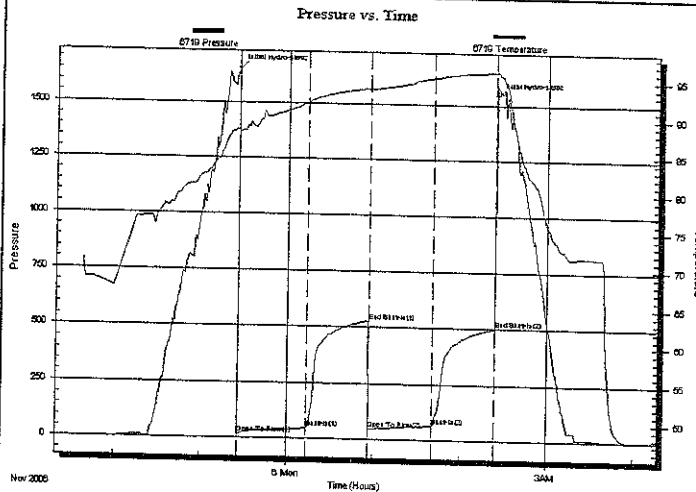
Serial #: 6719

Inside

Press@RunDepth: 64.44 psig @ 3352.00 ft (KB)
 Start Date: 2006.11.05 End Date: 2006.11.06
 Start Time: 21:37:58 End Time: 03:57:26

Capacity: 7000.00 psig
 Last Calib.: 2006.11.06
 Time On Btm: 2006.11.05 @ 23:25:56
 Time Off Btm: 2006.11.06 @ 02:24:41

TEST COMMENT: IFP Fair Blow Built to 8 "
 ISI Dead
 FFP Weak Blow Built to 5 "
 FSI Dead



PRESSURE SUMMARY

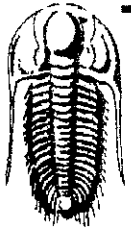
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.93	88.38	Initial Hydro-static
1	16.45	88.12	Open To Flow (1)
48	46.90	91.98	Shut-In(1)
91	529.37	93.89	End Shut-In(1)
91	48.80	93.67	Open To Flow(2)
136	64.44	95.36	Shut-In(2)
179	500.33	96.14	End Shut-In(2)
179	1544.62	96.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbi)
70.00	Muddy Water 60%W 40%M	0.71
5.00	Clean Oil	0.07

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25960

DST#: 4

ATTN: Tony Richardson

Test Start: 2006.11.05 @ 21:37:56

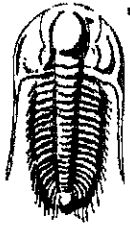
Tool Information

Drill Pipe:	Length: 3300.00 ft	Diameter: 3.80 inches	Volume: 46.29 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 35000.00 lb
			<u>Total Volume: 46.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3345.00 ft			Final 32000.00 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			3325.00	
Shut In Tool	5.00			3330.00	
Hydraulic tool	5.00			3335.00	
Packer	5.00			3340.00	21.00 Bottom Of Top Packer
Packer	5.00			3345.00	
Stubb	1.00			3346.00	
Perforations	6.00			3352.00	
Recorder	0.00	6719	Inside	3352.00	
Perforations	22.00			3374.00	
Recorder	0.00	13221	Outside	3374.00	
Bullnose	3.00			3377.00	32.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25960

DST#: 4

ATTN: Tony Richardson

Test Start: 2006.11.05 @ 21:37:56

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.96 in³

Resistivity: ohm.m

Salinity: 4500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 40 deg API

Water Salinity: 29000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Muddy Water 60%W 40%M	0.709
5.00	Clean Oil	0.070

Total Length: 75.00 ft Total Volume: 0.779 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

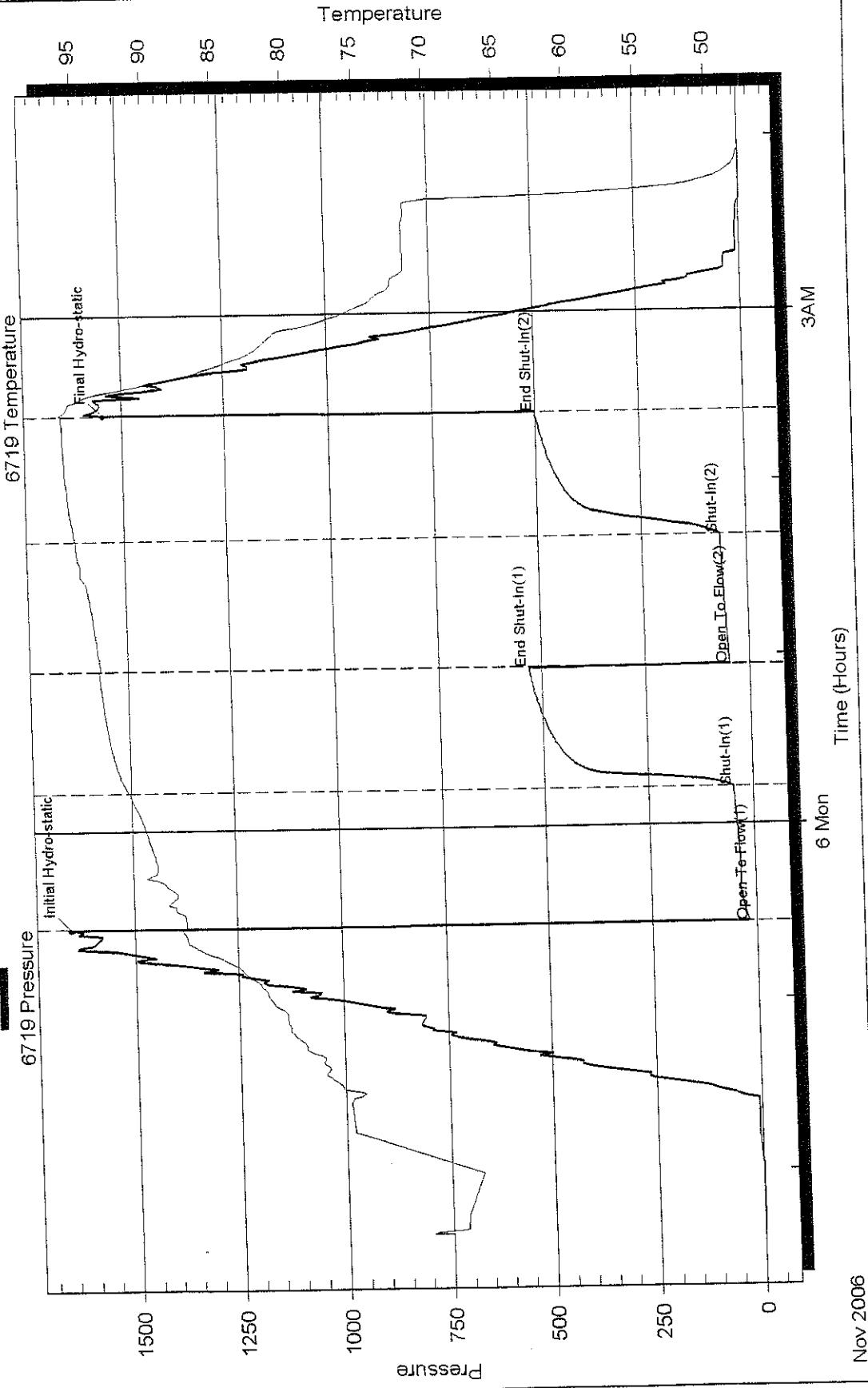
Serial #:

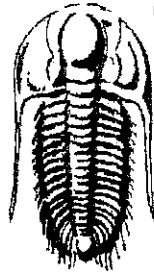
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

28 10 16 Rooks KS

Whisman A-1

Start Date: 2006.11.06 @ 21:24:46

End Date: 2006.11.07 @ 03:02:31

Job Ticket #: 25961 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Black Diamond Oil

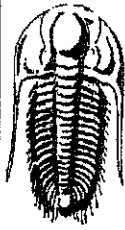
Whisman A-1

28 10 16 Rooks KS

DST # 5

LKC-"H-Marmaton"

2006.11.06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

ATTN: Tony Richardson

Job Ticket: 25961

DST#: 5

Test Start: 2006.11.06 @ 21:24:46

GENERAL INFORMATION:

Formation: **LKC-"H-Marmaton"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:15:01

Time Test Ended: 03:02:31

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3425.00 ft (KB) To 3548.00 ft (KB) (TVD)**

Total Depth: 3548.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2068.00 ft (KB)

2060.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press@RunDepth: 25.43 psig @ 3433.00 ft (KB)

Start Date: 2006.11.06

End Date:

2006.11.07

Capacity:

7000.00 psig

Start Time: 21:24:48

End Time:

03:02:31

Last Calib.:

2006.11.07

Time On Btm:

2006.11.06 @ 23:14:46

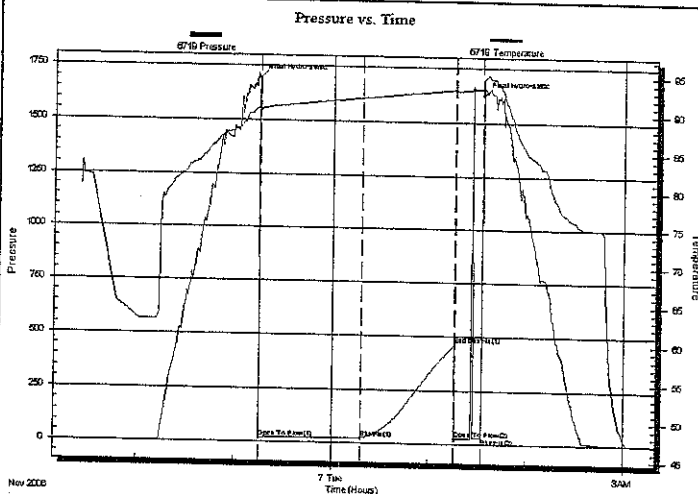
Time Off Btm:

2006.11.07 @ 01:33:16

TEST COMMENT: IFP Weak Blow Built to 1 " Dead in 45 Mn.

ISI Dead

FFP Kick Upon Open Dead Flush Tool Still Dead Pull Tool



PRESSURE SUMMARY

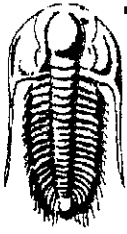
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.80	90.64	Initial Hydro-static
1	18.58	90.02	Open To Flow (1)
63	25.43	92.02	Shut-In(1)
122	463.13	93.20	End Shut-In(1)
122	26.85	93.11	Open To Flow (2)
138	31.69	93.39	Shut-In(2)
139	1625.59	93.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (tbl)
30.00	Drilling Mud	0.15

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25961

DST#: 5

ATTN: Tony Richardson

Test Start: 2006.11.06 @ 21:24:46

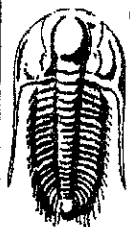
Tool Information

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: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 34000.00 lb
			<u>Total Volume: 47.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3425.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	123.00 ft			
Tool Length:	144.00 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			3405.00	
Shut In Tool	5.00			3410.00	
Hydraulic tool	5.00			3415.00	
Packer	5.00			3420.00	21.00 Bottom Of Top Packer
Packer	5.00			3425.00	
Stubb	1.00			3426.00	
Perforations	6.00			3432.00	
Change Over Sub	1.00			3433.00	
Recorder	0.00	6719	Inside	3433.00	
Blank Spacing	93.00			3526.00	
Change Over Sub	1.00			3527.00	
Perforations	18.00			3545.00	
Recorder	0.00	13221	Outside	3545.00	
Bullnose	3.00			3548.00	123.00 Bottom Packers & Anchor

Total Tool Length: 144.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25961

DST#: 5

ATTN: Tony Richardson

Test Start: 2006.11.06 @ 21:24:46

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:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drilling Mud	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

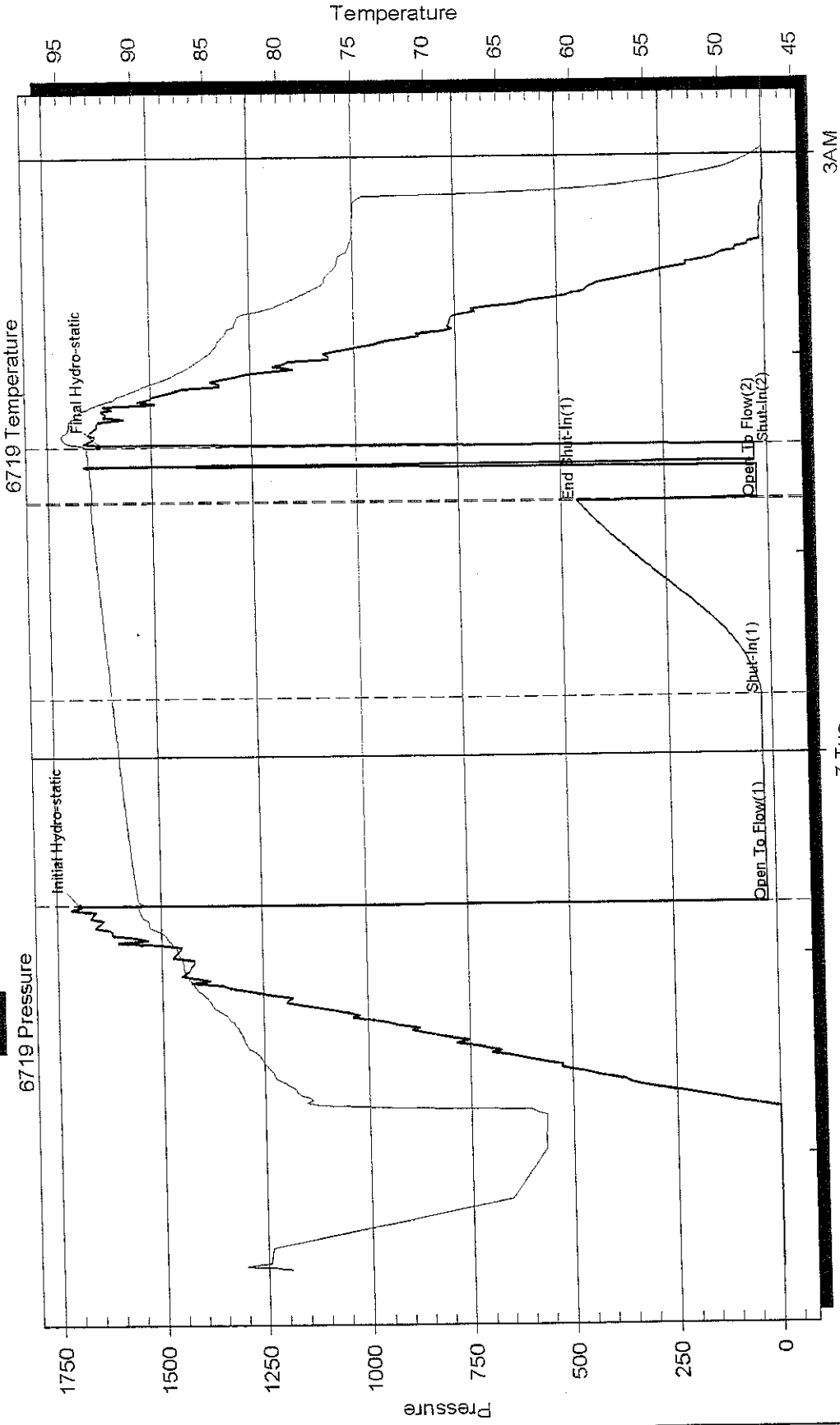
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

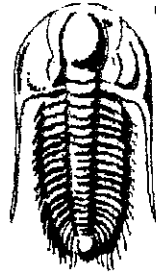
Pressure vs. Time



Nov 2006

7 Tue
Time (Hours)

3AM



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

28 10 16 Rooks KS

Whisman A-1

Start Date: 2006.11.07 @ 12:11:29

End Date: 2006.11.07 @ 18:06:14

Job Ticket #: 25962 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Black Diamond Oil

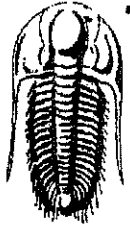
Whisman A-1

28 10 16 Rooks KS

DST # 6

Marmaton-Conglomerat

2006.11.07



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

ATTN: Tony Richardson

Job Ticket: 25962

DST#: 6

Test Start: 2006.11.07 @ 12:11:29

GENERAL INFORMATION:

Formation: **Marmaton-Conglomerat**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:55:14
 Time Test Ended: 18:06:14

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

Interval: **3518.00 ft (KB) To 3640.00 ft (KB) (TVD)**
 Total Depth: 3640.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2068.00 ft (KB)
 2060.00 ft (CF)
 KB to GR/CF: 8.00 ft

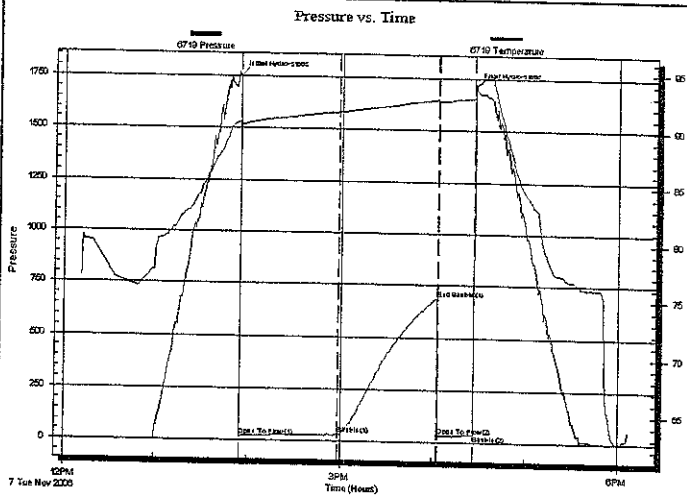
Serial #: 6719

Inside

Press@RunDepth: 31.65 psig @ 3526.00 ft (KB)
 Start Date: 2006.11.07 End Date: 2006.11.07
 Start Time: 12:11:31 End Time: 18:06:14

Capacity: 7000.00 psig
 Last Calib.: 2006.11.07
 Time On Btm: 2006.11.07 @ 13:54:59
 Time Off Btm: 2006.11.07 @ 16:27:29

TEST COMMENT: IFP Weak Blow Built to 1" in 25 Min Dead in 35 Min.
 ISI Dead
 FFP Dead Flush Tool Still Dead After 10 Min. Full Tool



PRESSURE SUMMARY

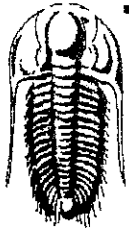
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.46	90.71	Initial Hydro-static
1	20.81	90.29	Open To Flow (1)
64	31.65	91.55	Shut-In(1)
129	688.83	92.75	End Shut-In(1)
129	31.61	92.59	Open To Flow (2)
152	36.30	92.89	Shut-In(2)
153	1711.50	93.23	Final Hydro-static

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

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25962

DST#: 6

ATTN: Tony Richardson

Test Start: 2006.11.07 @ 12:11:29

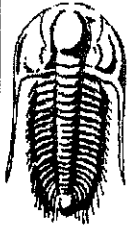
Tool Information

Drill Pipe:	Length: 3485.00 ft	Diameter: 3.80 inches	Volume: 48.89 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 36000.00 lb
			<u>Total Volume: 49.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3518.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	122.00 ft			
Tool Length:	143.00 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			3498.00	
Shut in Tool	5.00			3503.00	
Hydraulic tool	5.00			3508.00	
Packer	5.00			3513.00	21.00 Bottom Of Top Packer
Packer	5.00			3518.00	
Stubb	1.00			3519.00	
Perforations	6.00			3525.00	
Change Over Sub	1.00			3526.00	
Recorder	0.00	6719	Inside	3526.00	
Blank Spacing	92.00			3618.00	
Change Over Sub	1.00			3619.00	
Perforations	18.00			3637.00	
Recorder	0.00	13221	Outside	3637.00	
Bullnose	3.00			3640.00	122.00 Bottom Packers & Anchor

Total Tool Length: 143.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25962

DST#: 6

ATTN: Tony Richardson

Test Start: 2006.11.07 @ 12:11:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 8.76 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Drilling Mud	0.288

Total Length: 40.00 ft

Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

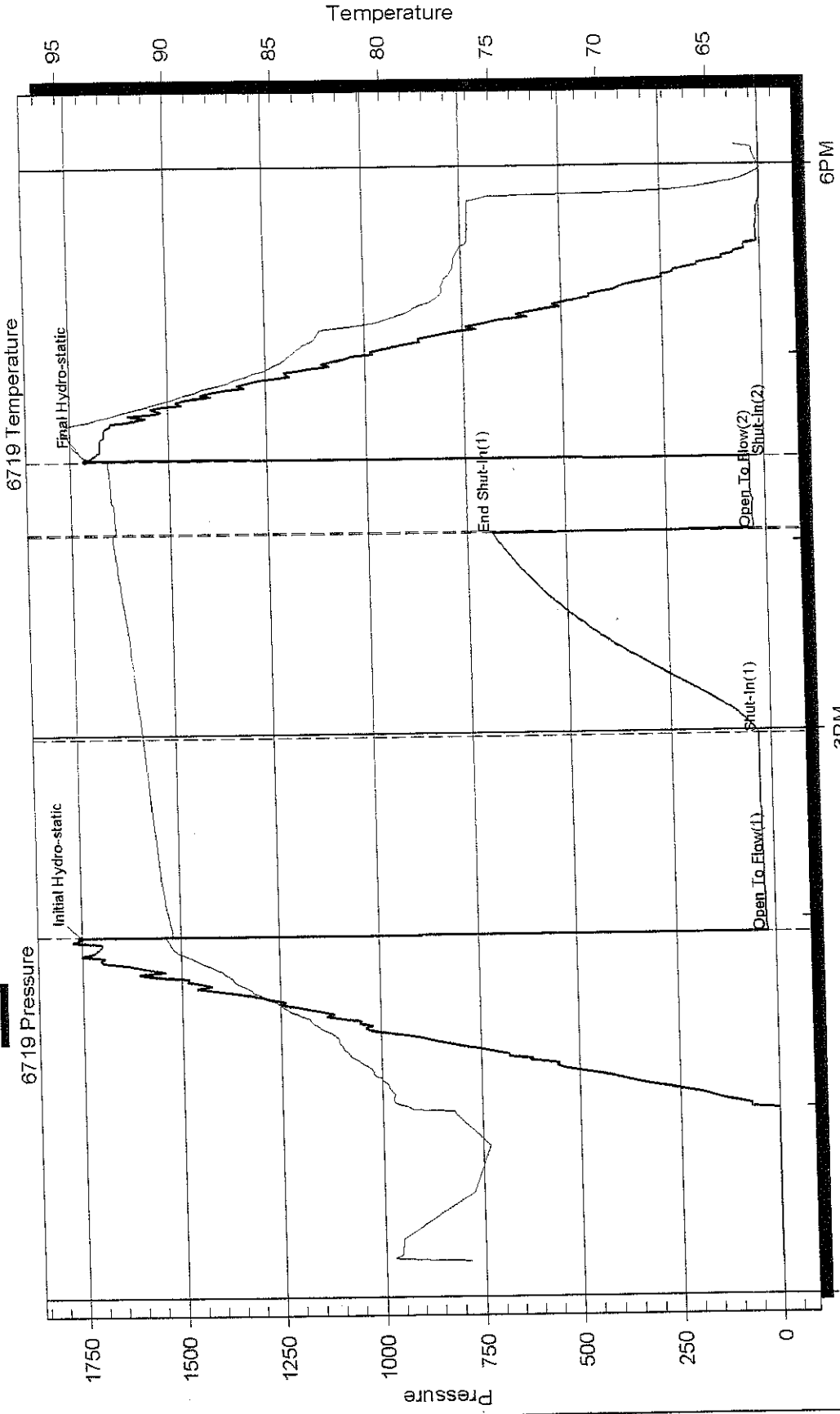
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

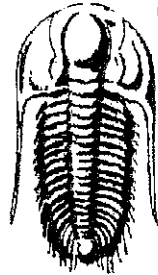
Pressure vs. Time



12 PM
7 Tue Nov 2006

3 PM
Time (Hours)

6 PM



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

28 10 16 Rooks KS

Whisman A-1

Start Date: 2006.11.08 @ 23:33:39

End Date: 2006.11.09 @ 06:38:39

Job Ticket #: 25964 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Black Diamond Oil

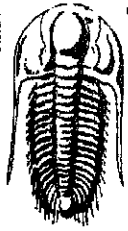
Whisman A-1

28 10 16 Rooks KS

DST # 7

LKC-"G"

2006.11.08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

ATTN: Tony Richardson

Job Ticket: 25964

DST#: 7

Test Start: 2006.11.08 @ 23:33:39

GENERAL INFORMATION:

Formation: **LKC-"G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:36:54

Time Test Ended: 06:38:39

Test Type: Conventional Straddle

Tester: Jason McLemore

Unit No: 32

Interval: **3340.00 ft (KB) To 3400.00 ft (KB) (TVD)**

Total Depth: 3702.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2068.00 ft (KB)

2060.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **6719** Inside

Press@RunDepth: 98.29 psig @ 3386.00 ft (KB)

Start Date: 2006.11.08

End Date:

2006.11.09

Start Time: 23:33:41

End Time:

06:38:39

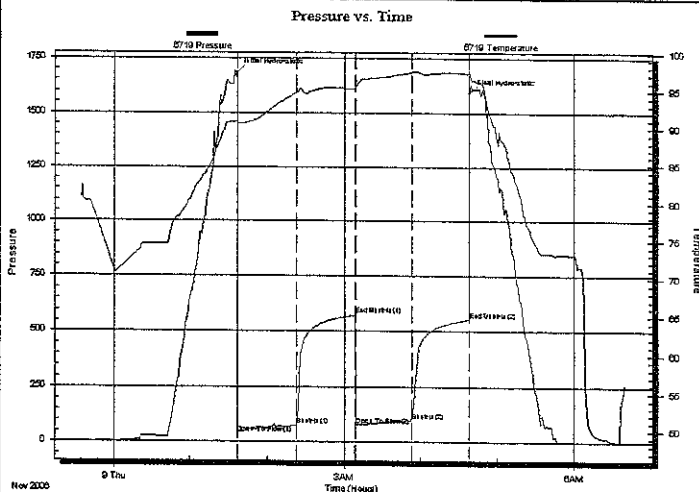
Capacity: 7000.00 psig

Last Calib.: 2006.11.09

Time On Btr: 2006.11.09 @ 01:36:24

Time Off Btr: 2006.11.09 @ 04:38:39

TEST COMMENT: IFF Fair Blow Built to 7-1/2 "
ISI Dead
FFP Fair Blow Built to 6 "
FSI Dead



PRESSURE SUMMARY

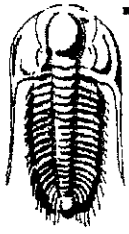
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.25	90.97	Initial Hydro-static
1	36.99	90.70	Open To Flow (1)
46	74.75	94.73	Shut-In(1)
92	574.13	95.26	End Shut-In(1)
93	77.10	95.30	Open To Flow(2)
137	98.29	97.40	Shut-In(2)
182	554.92	97.23	End Shut-In(2)
183	1589.77	97.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Watery Mud 20%W 80%M	1.48
5.00	Clean Oil	0.07

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25964

DST#: 7

ATTN: Tony Richardson

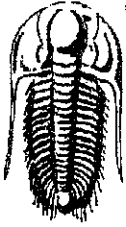
Test Start: 2006.11.08 @ 23:33:39

Tool Information

Drill Pipe:	Length: 3300.00 ft	Diameter: 3.80 inches	Volume: 46.29 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 36000.00 lb
			<u>Total Volume: 46.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3340.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	3400.00 ft			
Interval between Packers:	60.00 ft			
Tool Length:	385.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3320.00	
Shut In Tool	5.00			3325.00	
Hydraulic tool	5.00			3330.00	
Packer	5.00			3335.00	21.00 Bottom Of Top Packer
Packer	5.00			3340.00	
Stubb	1.00			3341.00	
Perforations	11.00			3352.00	
Change Over Sub	1.00			3353.00	
Blank Spacing	32.00			3385.00	
Change Over Sub	1.00			3386.00	
Recorder	0.00	6719	Inside	3386.00	
Perforations	10.00			3396.00	
Blank Off Sub	1.00			3397.00	
Blank Spacing	3.00			3400.00	60.00 Tool Interval
Packer	1.00			3401.00	
Stubb	1.00			3402.00	
Perforations	17.00			3419.00	
Change Over Sub	1.00			3420.00	
Recorder	0.00	13221	Below	3420.00	
Blank Spacing	280.00			3700.00	
Change Over Sub	1.00			3701.00	
Bullnose	3.00			3704.00	304.00 Bottom Packers & Anchor
Total Tool Length:		385.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25964

DST#: 7

ATTN: Tony Richardson

Test Start: 2006.11.08 @ 23:33:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

17000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Watery Mud 20%W 80%M	1.480
5.00	Clean Oil	0.070

Total Length: 130.00 ft

Total Volume: 1.550 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

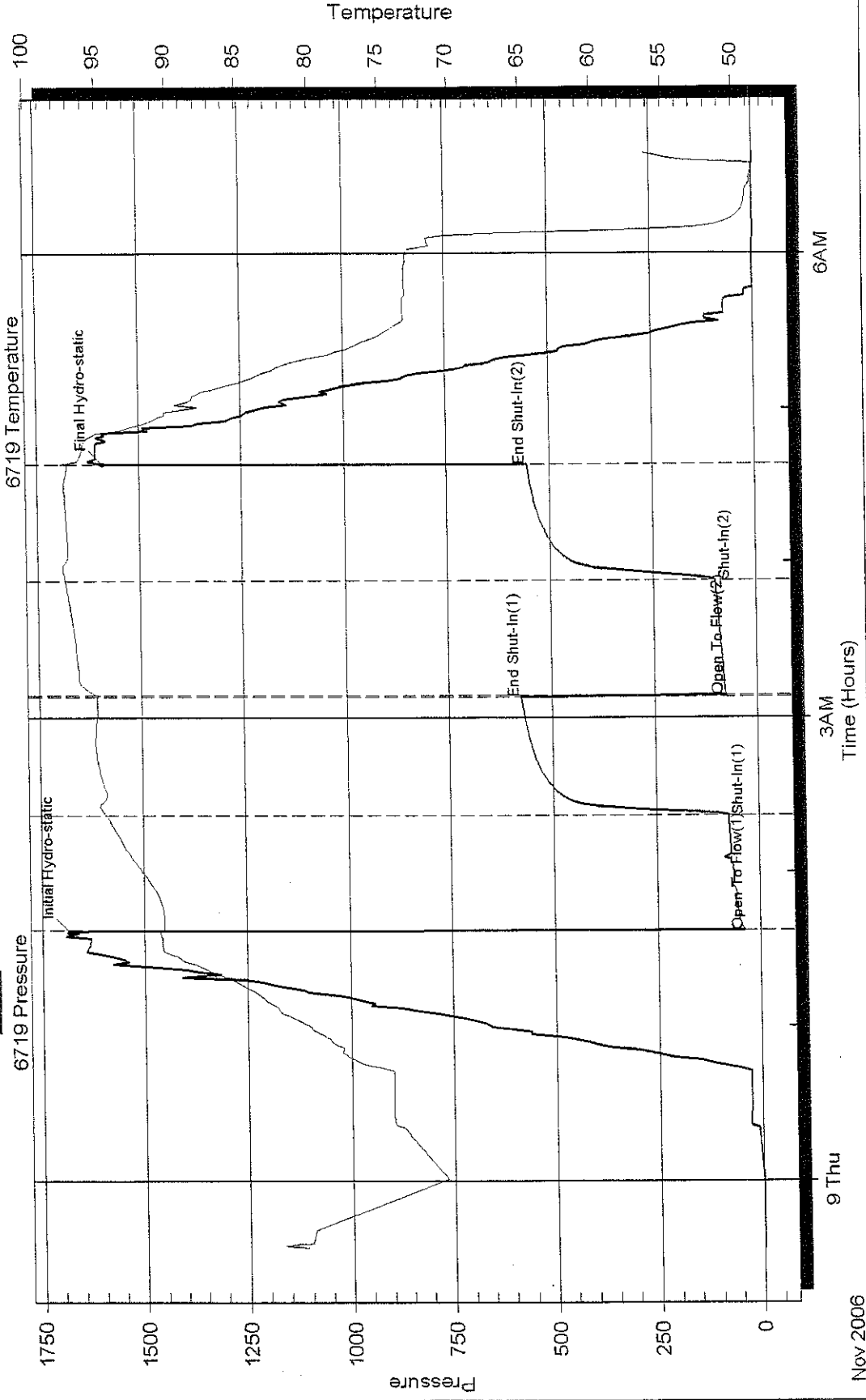
Serial #:

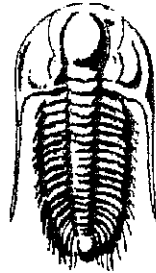
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

28 10 16 Rooks KS

Whisman A-1

Start Date: 2006.11.09 @ 06:58:37

End Date: 2006.11.09 @ 14:11:07

Job Ticket #: 25965 DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Black Diamond Oil

Whisman A-1

28 10 16 Rooks KS

DST # 8

Arbuckle

2006.11.09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Black Diamond Oil

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

Whisman A-1

28 10 16 Rooks KS

Job Ticket: 25965

DST#: 8

Test Start: 2006.11.09 @ 06:58:37

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:12:52
 Time Test Ended: 14:11:07

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

Interval: **3603.00 ft (KB) To 3704.00 ft (KB) (TVD)**
 Total Depth: 3704.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2068.00 ft (KB)
 2060.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press@RunDepth: 228.94 psig @ 3616.00 ft (KB)

Start Date: 2006.11.09

End Date:

2006.11.09

Capacity: 7000.00 psig

Last Calib.: 2006.11.09

Start Time: 06:58:39

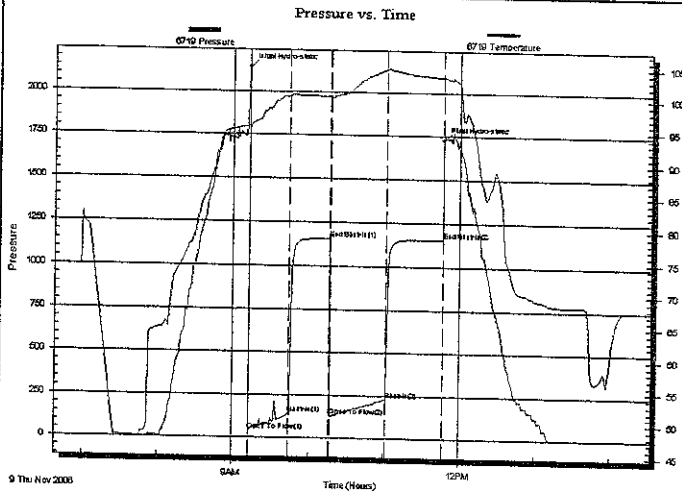
End Time:

14:11:07

Time On Btm: 2006.11.09 @ 09:12:37

Time Off Btm: 2006.11.09 @ 11:46:52

TEST COMMENT: IFP Good Blow BOB in 17 Min.
 ISI Dead
 FFP Good Blow BOB in 21 Min.
 FSI Dead



PRESSURE SUMMARY

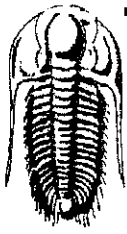
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2138.98	95.70	Initial Hydro-static
1	43.22	95.09	Open To Flow (1)
32	146.52	100.36	Shut-In(1)
64	1156.01	100.33	End Shut-In(1)
64	132.93	99.89	Open To Flow (2)
109	228.94	104.62	Shut-In(2)
154	1157.21	103.43	End Shut-In(2)
155	1722.53	103.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSMW 98%W 2%M	1.41
130.00	SOCMW 5%O 25%W 70%M	1.82
180.00	Mud W/Oil Specks 5%O 95%M	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25965

DST#: 8

ATTN: Tony Richardson

Test Start: 2006.11.09 @ 06:58:37

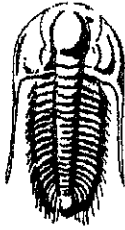
Tool Information

Drill Pipe:	Length: 3580.00 ft	Diameter: 3.80 inches	Volume: 50.22 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:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 50.37 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	34000.00 lb
Depth to Top Packer:	3603.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	101.00 ft				
Tool Length:	122.00 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			3583.00	
Shut In Tool	5.00			3588.00	
Hydraulic tool	5.00			3593.00	
Packer	5.00			3598.00	21.00 Bottom Of Top Packer
Packer	5.00			3603.00	
Stubb	1.00			3604.00	
Perforations	11.00			3615.00	
Change Over Sub	1.00			3616.00	
Recorder	0.00	6719	Inside	3616.00	
Blank Spacing	62.00			3678.00	
Change Over Sub	1.00			3679.00	
Perforations	22.00			3701.00	
Recorder	0.00	13221	Outside	3701.00	
Bullnose	3.00			3704.00	101.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Whisman A-1

PO Box 641
Hays KS 67601

28 10 16 Rooks KS

Job Ticket: 25965

DST#: 8

ATTN: Tony Richardson

Test Start: 2006.11.09 @ 06:58:37

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:

17500 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	VSMW 98%W 2%M	1.410
130.00	SOCMW 5%O 25%W 70%M	1.824
180.00	Mud W/Oil Specks 5%O 95%M	2.525

Total Length: 430.00 ft

Total Volume: 5.759 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

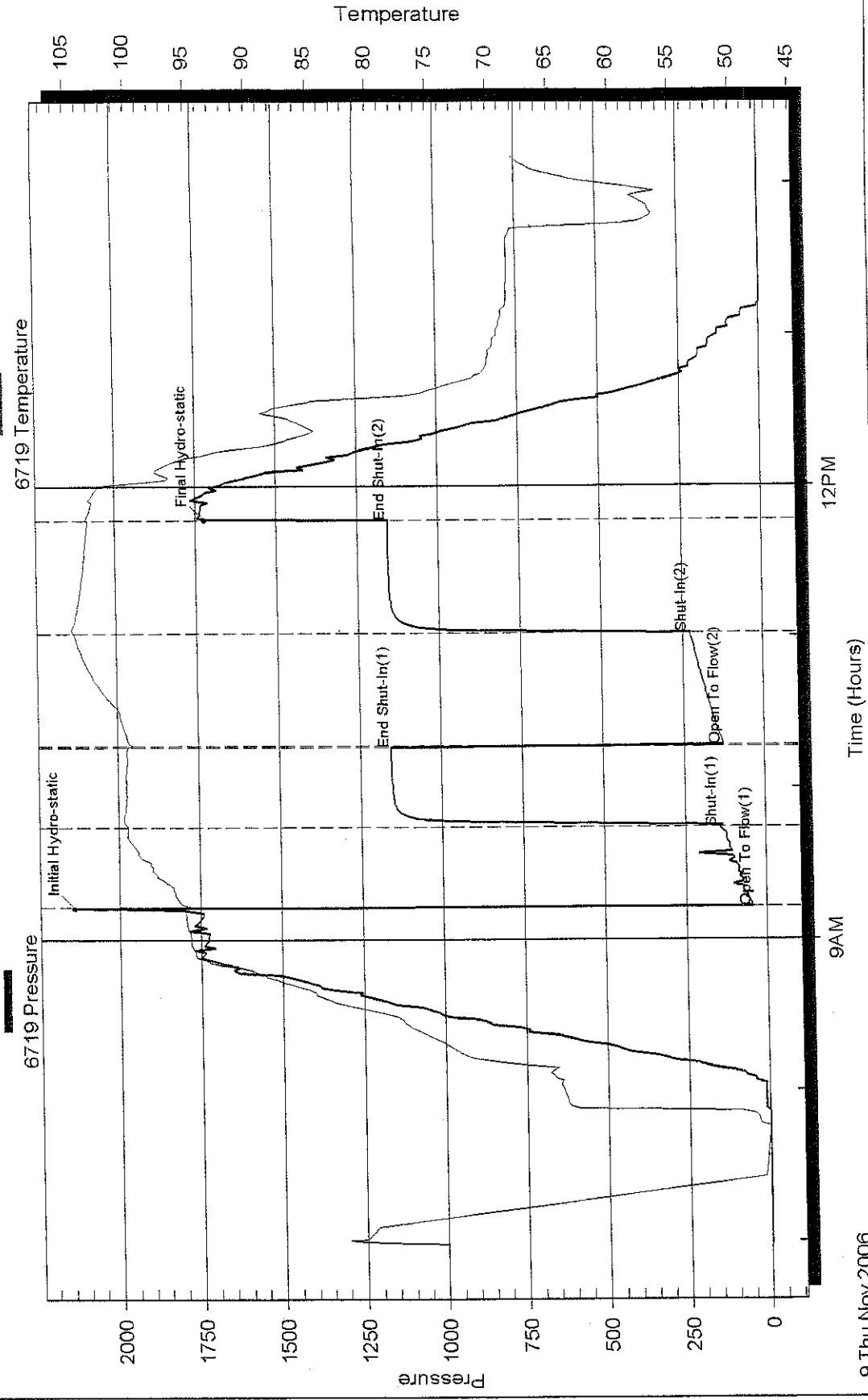
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



9 Thu Nov 2006

9AM

12PM

Time (Hours)