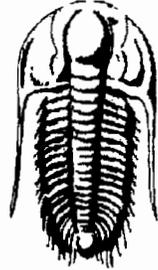


15-065-23379-0000

29-6s-22w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

29 6 22 Graham KS

Surratt #1

Start Date: 2007.12.10 @ 08:15:14
End Date: 2007.12.10 @ 15:36:14
Job Ticket #: 30252 DST #: 1

15-065-23379

SE NW SE SE

970 FSL 740 FEL

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 08 2008

CONSERVATION DIVISION
WICHITA, KS

Black Diamond Oil

Surratt #1

29 6 22 Graham KS

DST # 1

LKC "C"

2007.12.10

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Diamond Oil

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30252

DST#: 1

ATTN: Tony Richardson

Test Start: 2007.12.10 @ 08:15:14

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: **11:36:44**
Time Test Ended: **15:36:14**

Test Type: **Conventional Bottom Hole**
Tester: **Tyson Flax**
Unit No: **21**

Interval: **3618.00 ft (KB) To 3642.00 ft (KB) (TVD)**
Total Depth: **3642.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2345.00 ft (KB)**
2340.00 ft (CF)
KB to GR/CF: **5.00 ft**

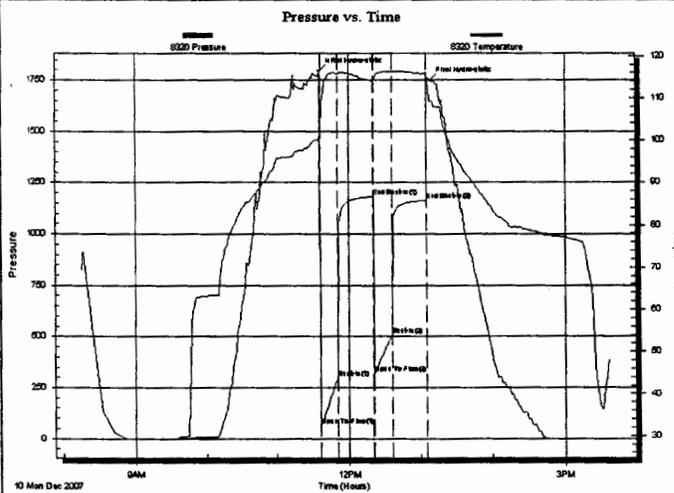
Serial #: 8320

Inside

Press@RunDepth: **505.60 psig @ 3621.00 ft (KB)**
Start Date: **2007.12.10** End Date: **2007.12.10**
Start Time: **08:15:15** End Time: **15:36:14**

Capacity: **7000.00 psig**
Last Calib.: **2007.12.10**
Time On Btm: **2007.12.10 @ 11:35:44**
Time Off Btm: **2007.12.10 @ 13:08:44**

TEST COMMENT: **IFP BOB in 1.5 min**
ISI Weak surface blow back throughout
FFP BOB in 1.5 min
FSI Weak surface blow back throughout



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1793.73 | 100.64 | Initial Hydro-static |
| 1 | 62.33 | 101.94 | Open To Flow (1) |
| 15 | 295.99 | 115.58 | Shut-In(1) |
| 45 | 1183.26 | 113.98 | End Shut-In(1) |
| 46 | 318.39 | 113.77 | Open To Flow (2) |
| 60 | 505.60 | 116.25 | Shut-In(2) |
| 90 | 1165.32 | 115.75 | End Shut-In(2) |
| 93 | 1748.21 | 109.21 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------|--------------|
| 420.00 | Water | 5.95 |
| 180.00 | OW 10%O 90%W | 2.55 |
| 360.00 | OW 20%O 80%W | 5.10 |
| 80.00 | GWO 20%G 40%O 40%W | 1.13 |
| 0.00 | 40' 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

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30252

DST#: 1

ATTN: Tony Richardson

Test Start: 2007.12.10 @ 08:15:14

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3617.00 ft | Diameter: 3.82 inches | Volume: 51.27 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 51.27 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 40000.00 lb |
| Depth to Top Packer: | 3618.00 ft | | | Final 46000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 24.00 ft | | | |
| Tool Length: | 45.00 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 | | | 3598.00 | |
| Shut In Tool | 5.00 | | | 3603.00 | |
| Hydraulic tool | 5.00 | | | 3608.00 | |
| Packer | 5.00 | | | 3613.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3618.00 | |
| Stubb | 1.00 | | | 3619.00 | |
| Perforations | 2.00 | | | 3621.00 | |
| Recorder | 0.00 | 8320 | Inside | 3621.00 | |
| Recorder | 0.00 | 8367 | Inside | 3621.00 | |
| Perforations | 18.00 | | | 3639.00 | |
| Bullnose | 3.00 | | | 3642.00 | 24.00 Bottom Packers & Anchor |

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30252

DST#: 1

ATTN: Tony Richardson

Test Start: 2007.12.10 @ 08:15:14

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:

49000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------|---------------|
| 420.00 | Water | 5.954 |
| 180.00 | OW 10%O 90%W | 2.552 |
| 360.00 | OW 20%O 80%W | 5.103 |
| 80.00 | GWO 20%G 40%O 40%W | 1.134 |
| 0.00 | 40' GIP | 0.000 |

Total Length: 1040.00 ft Total Volume: 14.743 bbl

Num Fluid Samples: 0

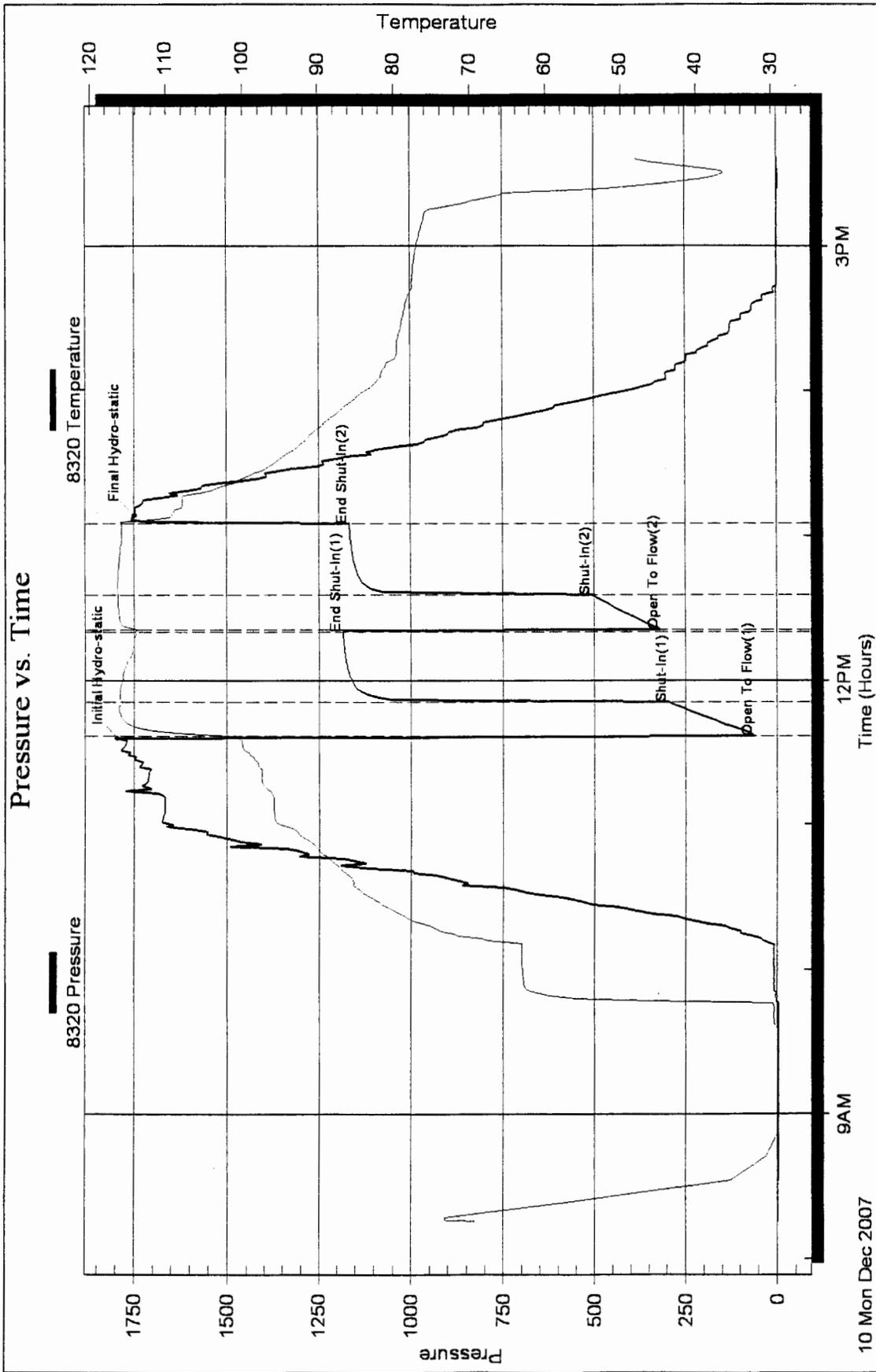
Num Gas Bombs: 0

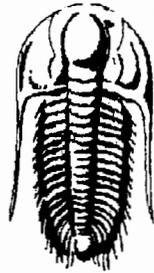
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

29 6 22 Graham KS

Surratt #1

Start Date: 2007.12.11 @ 10:30:29

End Date: 2007.12.11 @ 18:11:59

Job Ticket #: 30253 DST #: 2

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

Black Diamond Oil

Surratt #1

29 6 22 Graham KS

DST # 2

LKC "D"

2007.12.11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Diamond Oil

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30253

DST#: 2

ATTN: Tony Richardson

Test Start: 2007.12.11 @ 10:30:29

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:24:29

Time Test Ended: 18:11:59

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **3639.00 ft (KB) To 3662.00 ft (KB) (TVD)**

Reference Elevations: 2345.00 ft (KB)

Total Depth: 3662.00 ft (KB) (TVD)

2340.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 757.66 psig @ 3641.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.12.11

End Date:

2007.12.11

Last Calib.:

2007.12.11

Start Time: 10:30:30

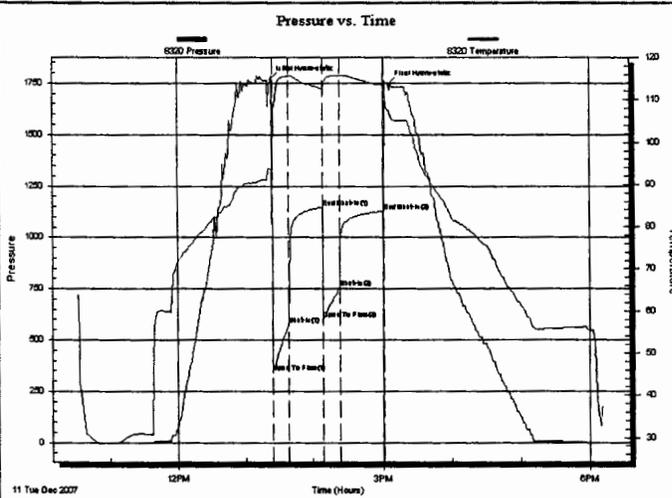
End Time:

18:11:59

Time On Btm: 2007.12.11 @ 13:23:29

Time Off Btm: 2007.12.11 @ 15:04:59

TEST COMMENT: IFP BOB in 1.5 min
ISI No blow back
FFP BOB in 1.5 min
FSI No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1766.17 | 93.69 | Initial Hydro-static |
| 1 | 343.98 | 93.26 | Open To Flow (1) |
| 16 | 575.40 | 115.62 | Shut-In(1) |
| 45 | 1147.69 | 112.62 | End Shut-In(1) |
| 46 | 602.11 | 112.36 | Open To Flow (2) |
| 60 | 757.66 | 115.64 | Shut-In(2) |
| 98 | 1128.47 | 113.44 | End Shut-In(2) |
| 102 | 1745.69 | 107.48 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 660.00 | Water | 9.36 |
| 300.00 | MW 70%W 30%M | 4.25 |
| 540.00 | Mud | 7.65 |
| | | |
| | | |

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30253

DST#: 2

ATTN: Tony Richardson

Test Start: 2007.12.11 @ 10:30:29

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3648.00 ft | Diameter: 3.82 inches | Volume: 51.71 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 50000.00 lb |
| | | | <u>Total Volume: 51.71 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 30.00 ft | | | String Weight: Initial 32000.00 lb |
| Depth to Top Packer: | 3639.00 ft | | | Final 40000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 23.00 ft | | | |
| Tool Length: | 44.00 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 | | | 3619.00 | |
| Shut In Tool | 5.00 | | | 3624.00 | |
| Hydraulic tool | 5.00 | | | 3629.00 | |
| Packer | 5.00 | | | 3634.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3639.00 | |
| Stubb | 1.00 | | | 3640.00 | |
| Perforations | 1.00 | | | 3641.00 | |
| Recorder | 0.00 | 8320 | Inside | 3641.00 | |
| Recorder | 0.00 | 8367 | Inside | 3641.00 | |
| Perforations | 18.00 | | | 3659.00 | |
| Bullnose | 3.00 | | | 3662.00 | 23.00 Bottom Packers & Anchor |
| Total Tool Length: | | 44.00 | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30253

DST#: 2

ATTN: Tony Richardson

Test Start: 2007.12.11 @ 10:30:29

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:

50000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 660.00 | Water | 9.356 |
| 300.00 | MW 70%W 30%M | 4.253 |
| 540.00 | Mud | 7.655 |

Total Length: 1500.00 ft

Total Volume: 21.264 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

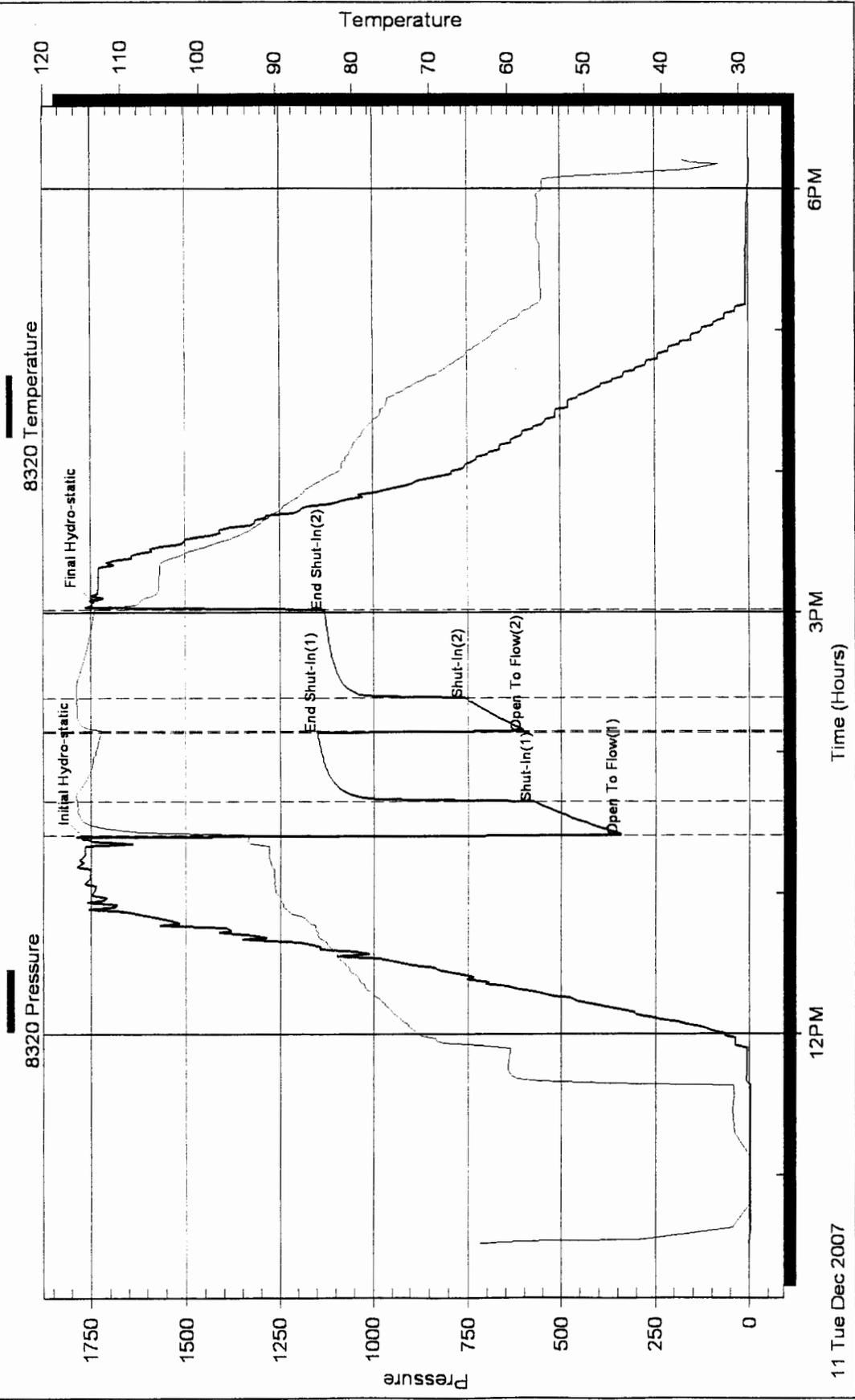
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

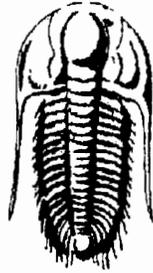


11 Tue Dec 2007

12PM

3PM

6PM



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

29 6 22 Graham KS

Surratt #1

Start Date: 2007.12.12 @ 07:07:12

End Date: 2007.12.12 @ 14:57:12

Job Ticket #: 30254 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Black Diamond Oil

Surratt #1

29 6 22 Graham KS

DST # 3

LKC "F-G"

2007.12.12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Diamond Oil

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30254

DST#: 3

ATTN: Tony Richardson

Test Start: 2007.12.12 @ 07:07:12

GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole

Time Tool Opened: 09:43:42

Tester: Tyson Flax

Time Test Ended: 14:57:12

Unit No: 21

Interval: **3664.00 ft (KB) To 3694.00 ft (KB) (TVD)**

Reference Elevations: 2345.00 ft (KB)

Total Depth: 3694.00 ft (KB) (TVD)

2340.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 159.67 psig @ 3668.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.12.12

End Date:

2007.12.12

Last Calib.: 2007.12.12

Start Time: 07:07:13

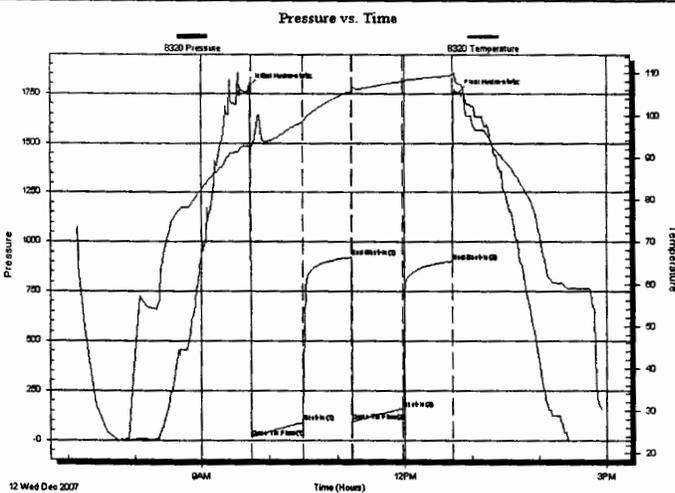
End Time:

14:57:12

Time On Btm: 2007.12.12 @ 09:42:12

Time Off Btm: 2007.12.12 @ 12:47:42

TEST COMMENT: IFP BOB in 24 min
ISI Very weak surface blow back died in 10 min
FFP BOB in 24 min
FSI Weak surface blow back throughout



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1782.28 | 92.73 | Initial Hydro-static |
| 2 | 14.10 | 92.18 | Open To Flow (1) |
| 47 | 89.72 | 98.47 | Shut-in(1) |
| 91 | 923.21 | 105.75 | End Shut-in(1) |
| 91 | 94.10 | 105.61 | Open To Flow(2) |
| 136 | 159.67 | 108.04 | Shut-in(2) |
| 181 | 902.94 | 109.56 | End Shut-in(2) |
| 186 | 1753.19 | 107.53 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 180.00 | Water | 2.55 |
| 60.00 | MW 95%W 5%M | 0.85 |
| 61.00 | MW 70%W 30%M | 0.86 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30254

DST#: 3

ATTN: Tony Richardson

Test Start: 2007.12.12 @ 07:07:12

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3648.00 ft | Diameter: 3.82 inches | Volume: 51.71 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 51.71 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 5.00 ft | | | String Weight: Initial 42000.00 lb |
| Depth to Top Packer: | 3664.00 ft | | | Final 42000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 30.00 ft | | | |
| Tool Length: | 51.00 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 | | | 3644.00 | |
| Shut In Tool | 5.00 | | | 3649.00 | |
| Hydraulic tool | 5.00 | | | 3654.00 | |
| Packer | 5.00 | | | 3659.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3664.00 | |
| Stubb | 1.00 | | | 3665.00 | |
| Perforations | 3.00 | | | 3668.00 | |
| Recorder | 0.00 | 8320 | Inside | 3668.00 | |
| Recorder | 0.00 | 8367 | Inside | 3668.00 | |
| Perforations | 23.00 | | | 3691.00 | |
| Bullnose | 3.00 | | | 3694.00 | 30.00 Bottom Packers & Anchor |

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30254

DST#: 3

ATTN: Tony Richardson

Test Start: 2007.12.12 @ 07:07:12

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:

35000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 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 |
|--------------|--------------|---------------|
| 180.00 | Water | 2.552 |
| 60.00 | MW 95%W 5%M | 0.851 |
| 61.00 | MW 70%W 30%M | 0.865 |

Total Length: 301.00 ft

Total Volume: 4.268 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

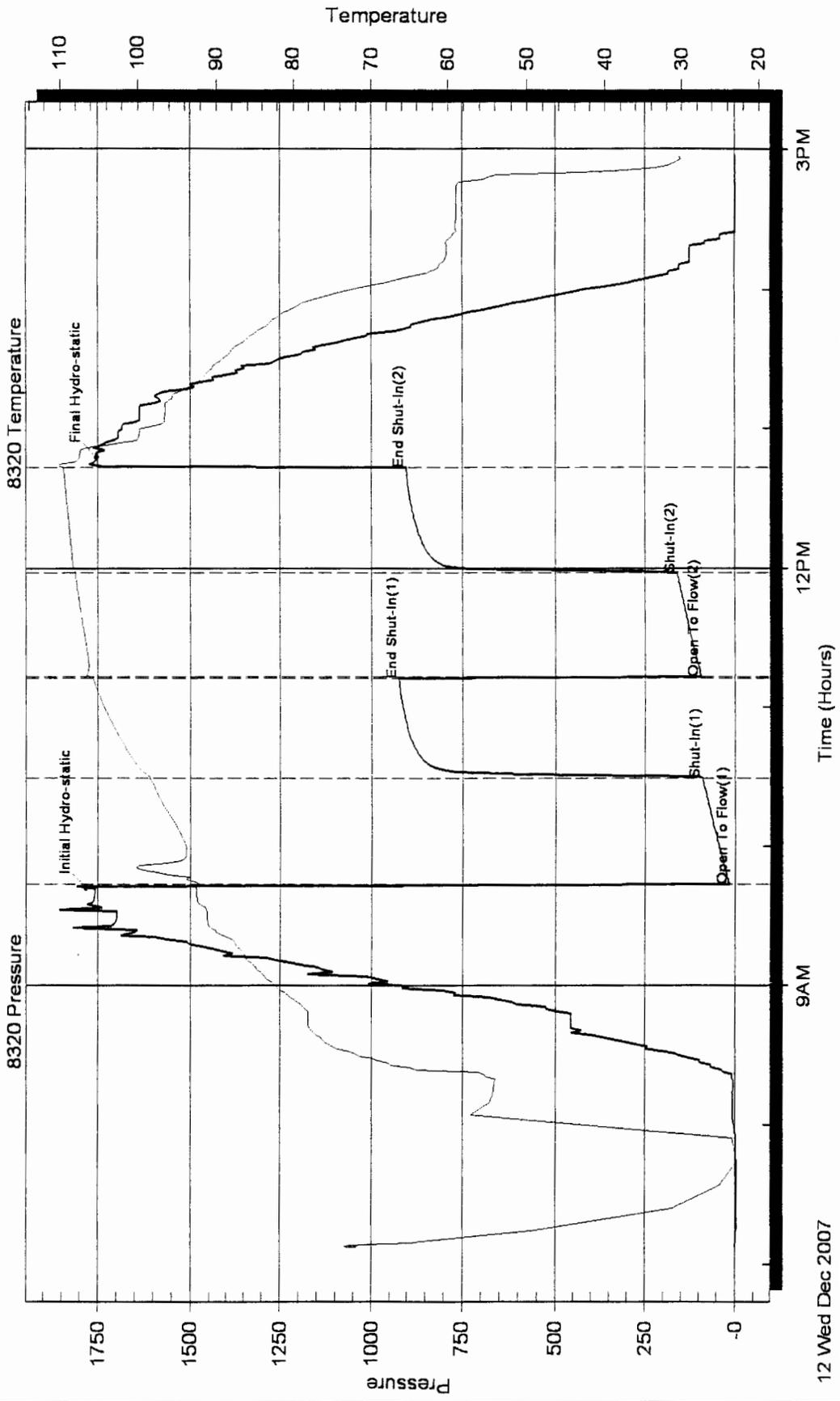
Serial #:

Laboratory Name:

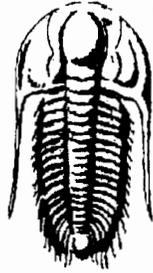
Laboratory Location:

Recovery Comments:

Pressure vs. Time



12 Wed Dec 2007



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

PO Box 641
Hays KS 67601

ATTN: Tony Richardson

29 6 22 Graham KS

Surratt #1

Start Date: 2007.12.13 @ 05:15:14

End Date: 2007.12.13 @ 14:13:44

Job Ticket #: 30255 DST #: 4

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

Black Diamond Oil

Surratt #1

29 6 22 Graham KS

DST # 4

LKC "H.K"

2007.12.13



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30255

DST#: 4

ATTN: Tony Richardson

Test Start: 2007.12.13 @ 05:15:14

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3710.00 ft | Diameter: 3.82 inches | Volume: 52.59 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 52.59 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 29.00 ft | | | String Weight: Initial 42000.00 lb |
| Depth to Top Packer: | 3702.00 ft | | | Final 42000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 82.00 ft | | | |
| Tool Length: | 103.00 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 | | | 3682.00 | |
| Shut In Tool | 5.00 | | | 3687.00 | |
| Hydraulic tool | 5.00 | | | 3692.00 | |
| Packer | 5.00 | | | 3697.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3702.00 | |
| Stubb | 1.00 | | | 3703.00 | |
| Perforations | 3.00 | | | 3706.00 | |
| Change Over Sub | 1.00 | | | 3707.00 | |
| Recorder | 0.00 | 8320 | Inside | 3707.00 | |
| Recorder | 0.00 | 8367 | Inside | 3707.00 | |
| Blank Spacing | 63.00 | | | 3770.00 | |
| Change Over Sub | 1.00 | | | 3771.00 | |
| Perforations | 10.00 | | | 3781.00 | |
| Bullnose | 3.00 | | | 3784.00 | 82.00 Bottom Packers & Anchor |

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Diamond Oil

Surratt #1

PO Box 641
Hays KS 67601

29 6 22 Graham KS

Job Ticket: 30255

DST#: 4

ATTN: Tony Richardson

Test Start: 2007.12.13 @ 05:15:14

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: 43.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 9.39 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 3500.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 1.00 | CO | 0.014 |
| 10.00 | OCM 10%O 90%M | 0.142 |

Total Length: 11.00 ft Total Volume: 0.156 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

