

15-065-23504

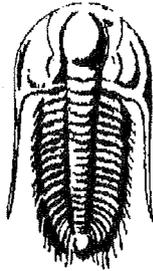
32-8s-25w

IND

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 27 2009

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE  
TESTING, INC.**

Berexco Inc.

Knoll North unit D-2

### DRILL STEM TEST REPORT

Prepared For: **Berexco Inc.**

PO Box 20380  
Wichita, KS 60208

**KCC**  
JAN 24 2009  
**CONFIDENTIAL**

32-8-25 Graham KS

ATTN: Brian Bynog

**32-8-25 Graham KS**

**Knoll North unit D-2**

Start Date: 2008.11.13 @ 02:33:54

End Date: 2008.11.13 @ 11:50:24

Job Ticket #: 33542                      DST #: 1

DST # 1

LKC B-C

2008.11.13

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

Job Ticket: 33542

**DST#: 1**

ATTN: Brian Bynog

Test Start: 2008.11.13 @ 02:33:54

## GENERAL INFORMATION:

Formation: **LKC B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:06:54

Time Test Ended: 11:50:24

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 31

**Interval: 3812.00 ft (KB) To 3852.00 ft (KB) (TVD)**

Total Depth: 3852.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2513.00 ft (KB)

2504.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8319**

**Inside**

Press@RunDepth: 104.37 psig @ 3814.00 ft (KB)

Start Date: 2008.11.13

End Date:

2008.11.13

Capacity: 7000.00 psig

Last Callb.: 2008.11.13

Start Time: 02:33:59

End Time:

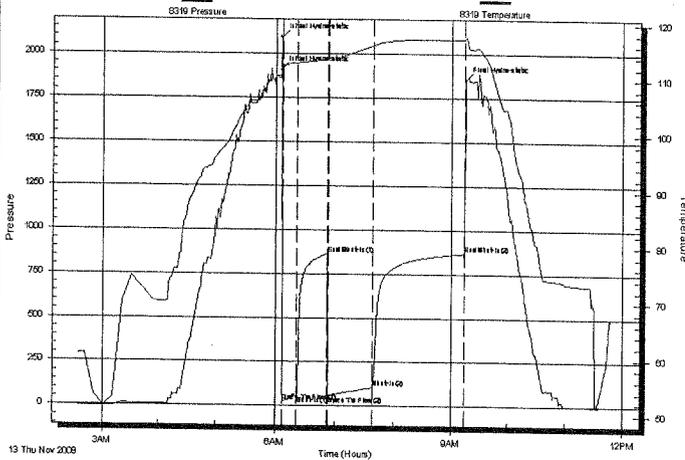
11:50:24

Time On Btm: 2008.11.13 @ 06:05:24

Time Off Btm: 2008.11.13 @ 09:14:54

TEST COMMENT: IF 2 1/4"  
FF 1"

Pressure vs. Time



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.63	110.66	Initial Hydro-static
1	2091.88	110.95	Initial Hydro-static
2	25.27	111.80	Open To Flow (1)
17	55.84	112.94	Shut-In(1)
47	863.19	113.67	End Shut-In(1)
48	58.27	113.48	Open To Flow (2)
93	104.37	116.08	Shut-In(2)
188	865.01	117.29	End Shut-In(2)
190	1850.04	117.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	MCW	0.44
95.00	StOCM 1%O 99%M	0.47
10.00	Clean Oil	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Berexco Inc.  
PO Box 20380  
Wichita, KS 60208  
ATTN: Brian Bynog

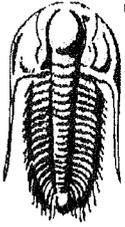
**Knoll North unit D-2**  
**32-8-25 Graham KS**  
Job Ticket: 33542      **DST#: 1**  
Test Start: 2008.11.13 @ 02:33:54

**Tool Information**

Drill Pipe:	Length: 3574.00 ft	Diameter: 3.34 inches	Volume: 38.73 bbl	Tool Weight:	1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 39.79 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3812.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	67.00 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			3786.00	
Shut In Tool	5.00			3791.00	
Hydraulic tool	5.00			3796.00	
Jars	4.00			3800.00	
Safety Joint	3.00			3803.00	
Packer	4.00			3807.00	27.00      Bottom Of Top Packer
Packer	5.00			3812.00	
Stubb	1.00			3813.00	
Perforations	1.00			3814.00	
Recorder	0.00	8319	Inside	3814.00	
Recorder	0.00	8369	Inside	3814.00	
Change Over Sub	1.00			3815.00	
Blank Spacing	31.00			3846.00	
Change Over Sub	1.00			3847.00	
Perforations	2.00			3849.00	
Bullnose	3.00			3852.00	40.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>67.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

Job Ticket: 33542

**DST#: 1**

ATTN: Brian Bynog

Test Start: 2008.11.13 @ 02:33:54

## 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:

23000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	MCW	0.443
95.00	SITOCM 1%O 99%M	0.467
10.00	Clean Oil	0.049

Total Length: 195.00 ft

Total Volume: 0.959 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

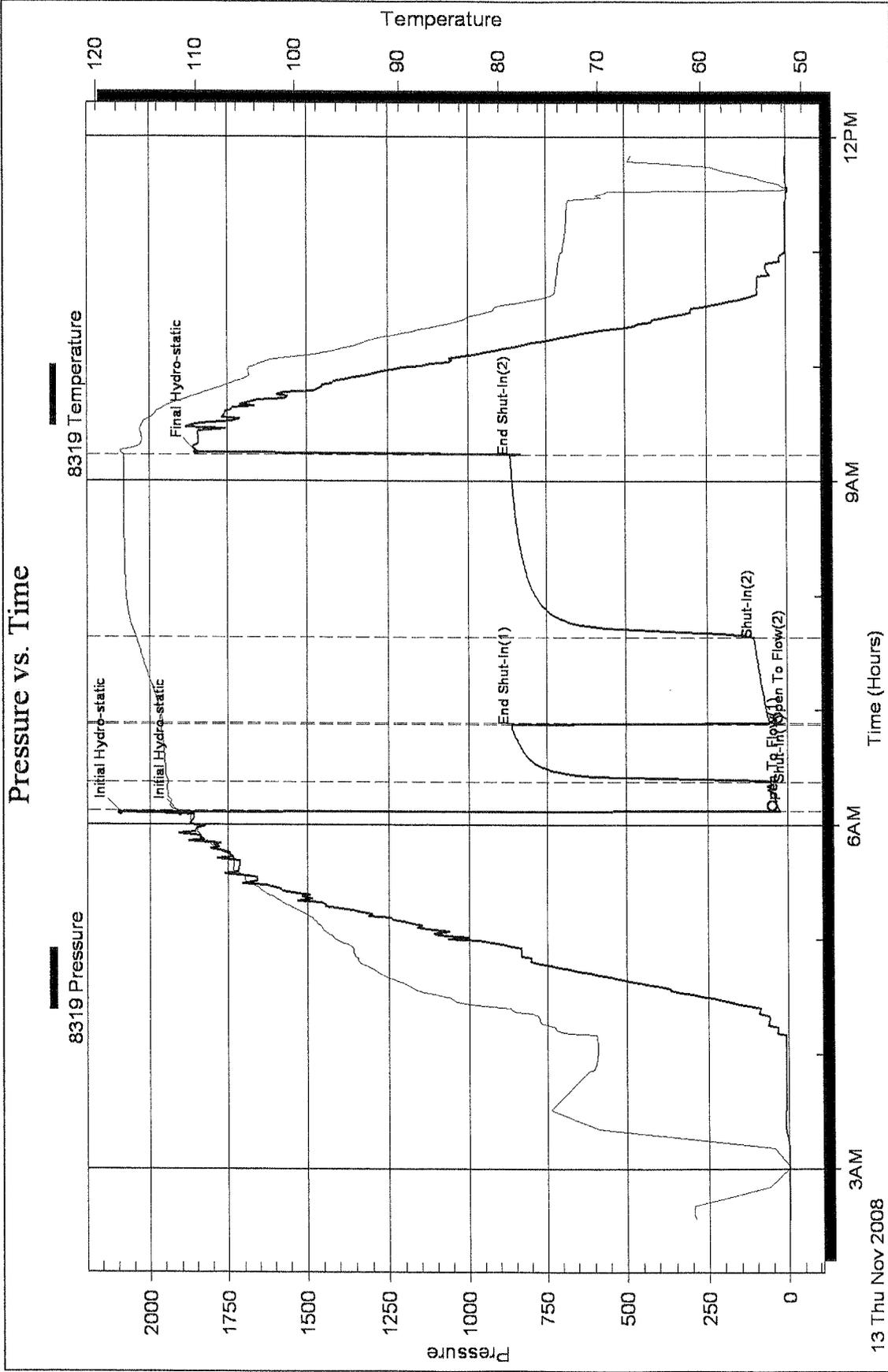
Serial #:

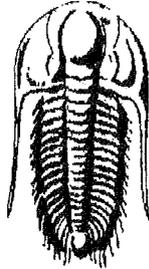
Laboratory Name:

Laboratory Location:

Recovery Comments: rw .31 @ 71 deg.

# Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Berexco Inc.**

PO Box 20380  
Wichita, KS 60208

ATTN: Brian Bynog

**32-8-25 Graham KS**

**Knoll North unit D-2**

Start Date: 2008.11.14 @ 16:54:08

End Date: 2008.11.15 @ 03:21:38

Job Ticket #: 33543                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Berexco Inc.

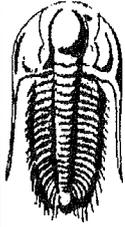
Knoll North unit D-2

32-8-25 Graham KS

DST # 2

LKC "F"

2008.11.14



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

Job Ticket: 33543

**DST#: 2**

ATTN: Brian Bynog

Test Start: 2008.11.14 @ 16:54:08

## GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:43:38

Time Test Ended: 03:21:38

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 31

**Interval: 3850.00 ft (KB) To 3880.00 ft (KB) (TVD)**

Total Depth: 3880.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2513.00 ft (KB)

2504.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8319** Inside

Press@RunDepth: 74.31 psig @ 3852.00 ft (KB)

Start Date: 2008.11.14

End Date: 2008.11.15

Capacity: 7000.00 psig

Start Time: 16:54:13

End Time: 03:21:38

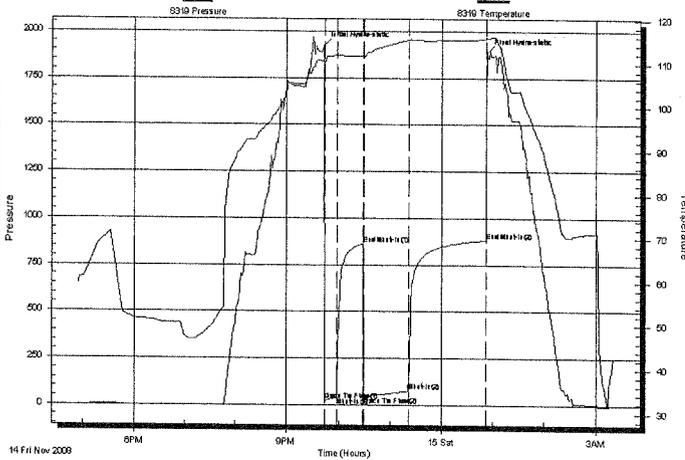
Last Calib.: 2008.11.15

Time On Btm: 2008.11.14 @ 21:43:07

Time Off Btm: 2008.11.15 @ 00:52:38

TEST COMMENT: IF 1 1/2"  
FF 1"

Pressure vs. Time



## PRESSURE SUMMARY

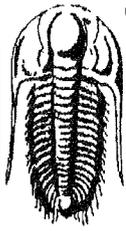
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1920.87	110.59	Initial Hydro-static
1	24.62	110.11	Open To Flow (1)
16	38.22	111.87	Shut-In(1)
46	862.60	111.71	End Shut-In(1)
47	44.86	111.48	Open To Flow (2)
99	74.31	115.45	Shut-In(2)
189	881.18	115.64	End Shut-In(2)
190	1888.53	115.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM 15%W 85%M	0.30
60.00	SitOCM 3%O 97%M	0.30
5.00	Clean Oil	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Berexco Inc.  
PO Box 20380  
Wichita, KS 60208  
  
ATTN: Brian Bynog

**Knoll North unit D-2**  
**32-8-25 Graham KS**  
Job Ticket: 33543      **DST#: 2**  
Test Start: 2008.11.14 @ 16:54:08

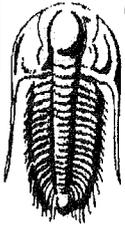
### Tool Information

Drill Pipe:	Length: 3636.00 ft	Diameter: 3.34 inches	Volume: 39.40 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 40.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3850.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			3824.00	
Shut In Tool	5.00			3829.00	
Hydraulic tool	5.00			3834.00	
Jars	4.00			3838.00	
Safety Joint	3.00			3841.00	
Packer	4.00			3845.00	27.00      Bottom Of Top Packer
Packer	5.00			3850.00	
Stubb	1.00			3851.00	
Perforations	1.00			3852.00	
Recorder	0.00	8319	Inside	3852.00	
Recorder	0.00	8369	Inside	3852.00	
Perforations	25.00			3877.00	
Bullnose	3.00			3880.00	30.00      Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

Job Ticket: 33543

**DST#: 2**

ATTN: Brian Bynog

Test Start: 2008.11.14 @ 16:54:08

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.78 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 45000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WCM 15%W 85%M	0.295
60.00	SlitOCM 3%O 97%M	0.295
5.00	Clean Oil	0.025

Total Length: 125.00 ft      Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

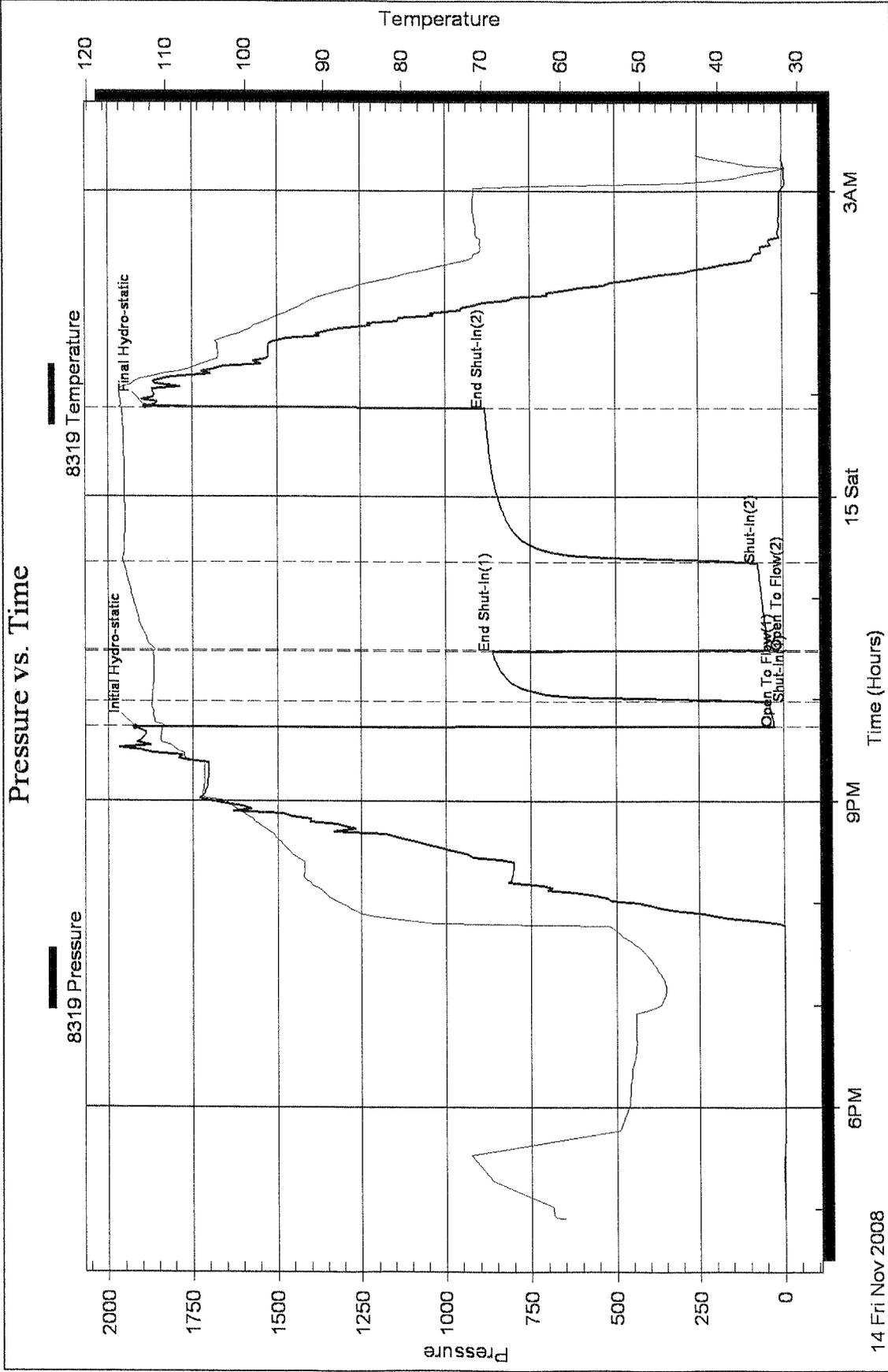
Serial #:

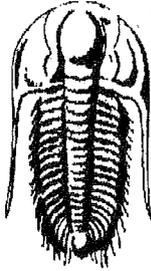
Laboratory Name:

Laboratory Location:

Recovery Comments: rw .34 @ 35 deg.

### Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Berexco Inc.**

PO Box 20380  
Wichita, KS 60208

ATTN: Brian Bynog

**32-8-25 Graham KS**

**Knoll North unit D-2**

Start Date: 2008.11.15 @ 14:16:49

End Date: 2008.11.15 @ 23:10:49

Job Ticket #: 33544                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Berexco Inc.

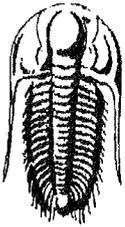
Knoll North unit D-2

32-8-25 Graham KS

DST # 3

LKC "H"

2008.11.15



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

Job Ticket: 33544

**DST#: 3**

ATTN: Brian Bynog

Test Start: 2008.11.15 @ 14:16:49

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:51:19

Time Test Ended: 23:10:49

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 31

Interval: **3900.00 ft (KB) To 3930.00 ft (KB) (TVD)**

Total Depth: 3930.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2513.00 ft (KB)

2504.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8319**

**Inside**

Press@RunDepth: 245.84 psig @ 3902.00 ft (KB)

Start Date: 2008.11.15

End Date:

2008.11.15

Capacity: 7000.00 psig

Start Time: 14:16:54

End Time:

23:10:49

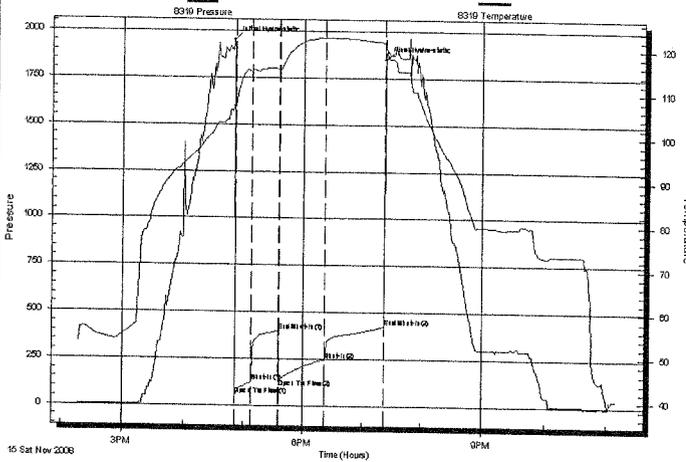
Last Calib.: 2008.11.15

Time On Btm: 2008.11.15 @ 16:49:49

Time Off Btm: 2008.11.15 @ 19:23:49

TEST COMMENT: IF BOB 2 1/2 min  
ISI Strong BOB  
FF BOB 3 min  
FSI Strong BOB

Pressure vs. Time



## PRESSURE SUMMARY

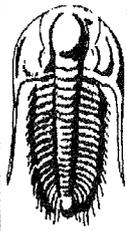
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.91	106.99	Initial Hydro-static
2	53.03	106.94	Open To Flow (1)
18	125.46	114.79	Shut-In(1)
45	397.42	115.54	End Shut-In(1)
46	143.18	115.38	Open To Flow (2)
92	245.84	122.61	Shut-In(2)
154	423.65	121.59	End Shut-In(2)
154	1847.27	122.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
660.00	Gsy Free Oil Reversed Out	5.88
0.00	GIP 2500'	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Berexco Inc.  
PO Box 20380  
Wichita, KS 60208

**Knoll North unit D-2**  
**32-8-25 Graham KS**  
Job Ticket: 33544      **DST#: 3**  
Test Start: 2008.11.15 @ 14:16:49

ATTN: Brian Bynog

### Tool Information

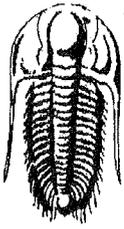
Drill Pipe:	Length: 3668.00 ft	Diameter: 3.34 inches	Volume: 39.75 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 40.81 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3900.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3874.00	
Shut In Tool	5.00			3879.00	
Hydraulic tool	5.00			3884.00	
Jars	4.00			3888.00	
Safety Joint	3.00			3891.00	
Packer	4.00			3895.00	27.00      Bottom Of Top Packer
Packer	5.00			3900.00	
Stubb	1.00			3901.00	
Perforations	1.00			3902.00	
Recorder	0.00	8319	inside	3902.00	
Recorder	0.00	8369	inside	3902.00	
Perforations	25.00			3927.00	
Bullnose	3.00			3930.00	30.00      Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

Job Ticket: 33544

**DST#: 3**

ATTN: Brian Bynog

Test Start: 2008.11.15 @ 14:16:49

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
660.00	Gsy Free Oil Reversed Out	5.880
0.00	GIP 2500'	0.000

Total Length: 660.00 ft      Total Volume: 5.880 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

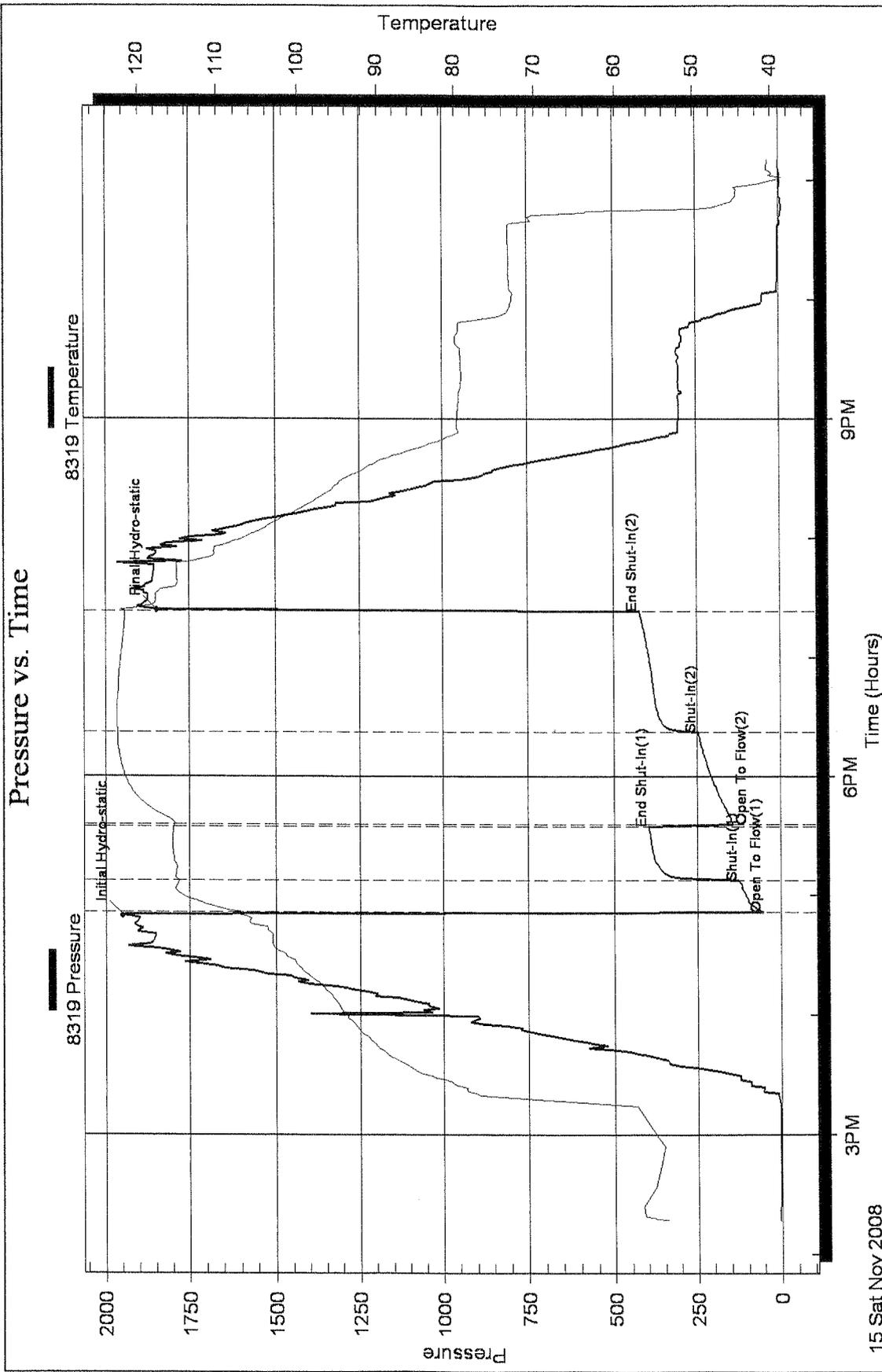
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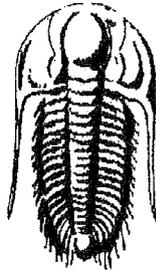
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Berexco Inc.**

PO Box 20380  
Wichita, KS 60208

ATTN: Brian Bynog

**32-8-25 Graham KS**

**Knoll North unit D-2**

Start Date: 2008.11.16 @ 13:19:40

End Date: 2008.11.16 @ 21:25:10

Job Ticket #: 33545                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Berexco Inc.

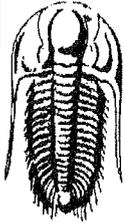
Knoll North unit D-2

32-8-25 Graham KS

DST # 4

LKC"1-J"

2008.11.16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

ATTN: Brian Bynog

Job Ticket: 33545

**DST#: 4**

Test Start: 2008.11.16 @ 13:19:40

## GENERAL INFORMATION:

Formation: **LKC"J-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:50:10

Time Test Ended: 21:25:10

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 31

**Interval: 3936.00 ft (KB) To 3976.00 ft (KB) (TVD)**

Total Depth: 3976.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2513.00 ft (KB)

2504.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8319** Inside

Press@RunDepth: 82.51 psig @ 3938.00 ft (KB)

Start Date: 2008.11.16

End Date: 2008.11.16

Capacity: 7000.00 psig

Start Time: 13:19:45

End Time: 21:25:09

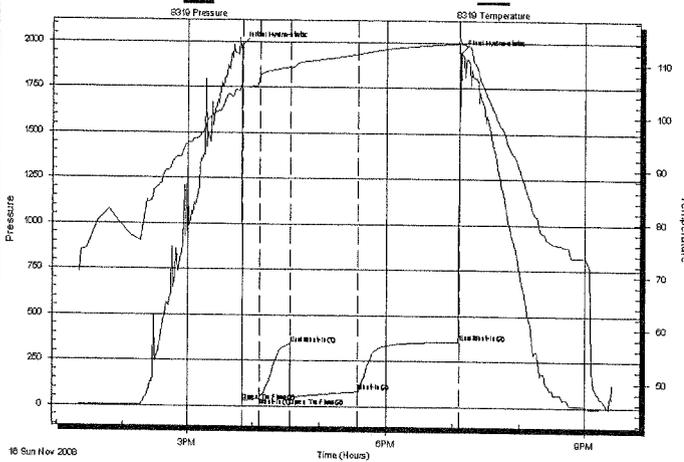
Last Calib.: 2008.11.16

Time On Btm: 2008.11.16 @ 15:49:40

Time Off Btm: 2008.11.16 @ 19:06:39

TEST COMMENT: IF BOB 12 min  
FF BOB 37 min

Pressure vs. Time



## PRESSURE SUMMARY

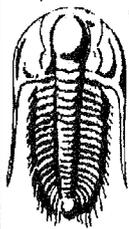
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.31	105.95	Initial Hydro-static
1	24.72	105.60	Open To Flow (1)
17	43.94	107.65	Shut-In(1)
44	342.06	109.39	End Shut-In(1)
44	45.82	109.30	Open To Flow (2)
105	82.51	111.91	Shut-In(2)
196	359.37	114.05	End Shut-In(2)
197	1944.33	114.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	HMCO 60%O 40%M	0.89
0.00	630' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Berexco Inc.  
PO Box 20380  
Wichita, KS 60208

**Knoll North unit D-2**

**32-8-25 Graham KS**

Job Ticket: 33545

**DST#: 4**

ATTN: Brian Bynog

Test Start: 2008.11.16 @ 13:19:40

### Tool Information

Drill Pipe:	Length: 3700.00 ft	Diameter: 3.34 inches	Volume: 40.10 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 41.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3936.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	67.00 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			3910.00	
Shut In Tool	5.00			3915.00	
Hydraulic tool	5.00			3920.00	
Jars	4.00			3924.00	
Safety Joint	3.00			3927.00	
Packer	4.00			3931.00	27.00 Bottom Of Top Packer
Packer	5.00			3936.00	
Stubb	1.00			3937.00	
Perforations	1.00			3938.00	
Recorder	0.00	8319	Inside	3938.00	
Recorder	0.00	8369	Inside	3938.00	
Change Over Sub	1.00			3939.00	
Blank Spacing	31.00			3970.00	
Change Over Sub	1.00			3971.00	
Perforations	2.00			3973.00	
Bullnose	3.00			3976.00	40.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>67.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

Job Ticket: 33545

**DST#: 4**

ATTN: Brian Bynog

Test Start: 2008.11.16 @ 13:19:40

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 7.99 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
180.00	HMCO 60%O 40%M	0.885
0.00	630' GIP	0.000

Total Length: 180.00 ft      Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

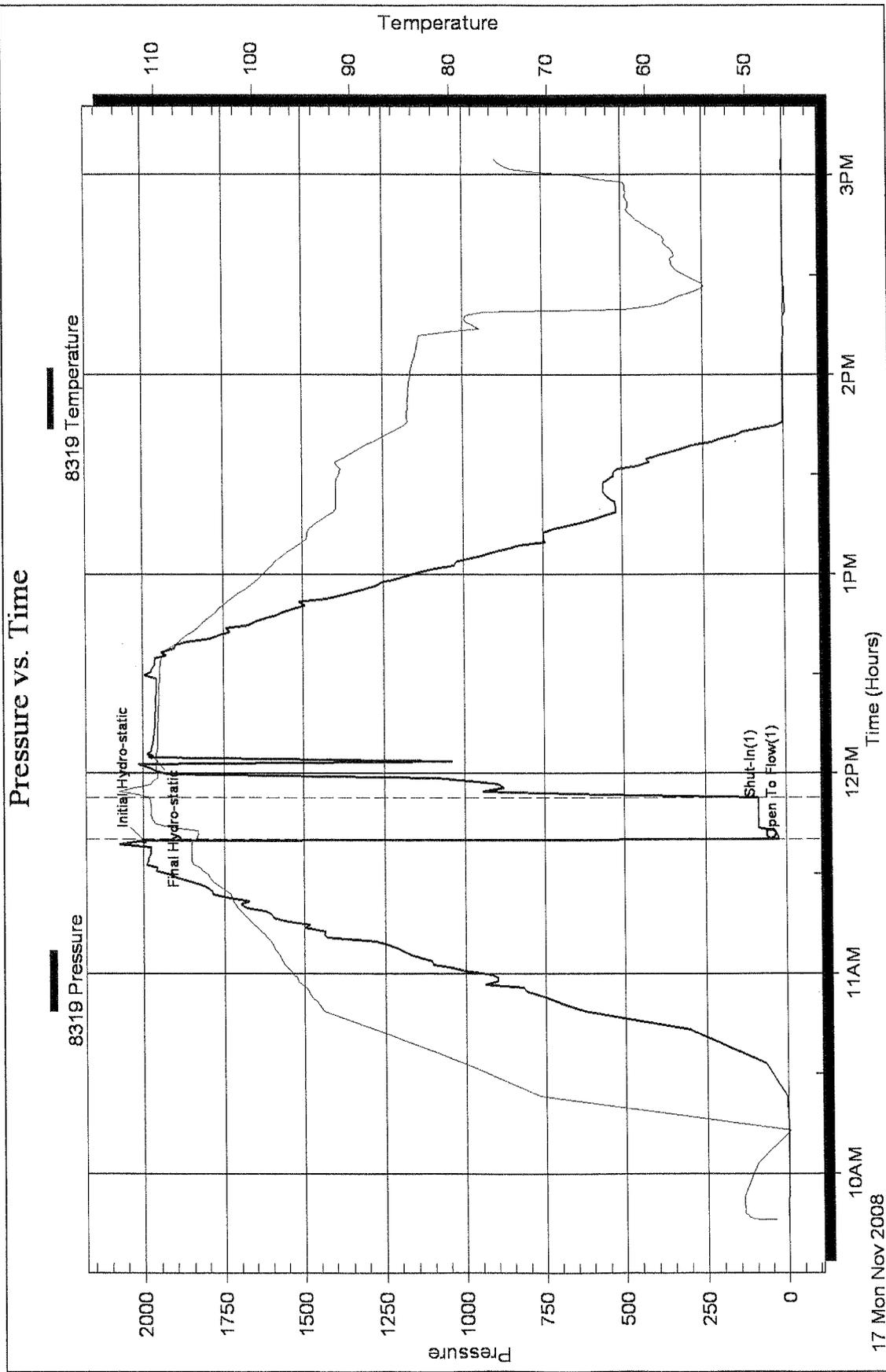
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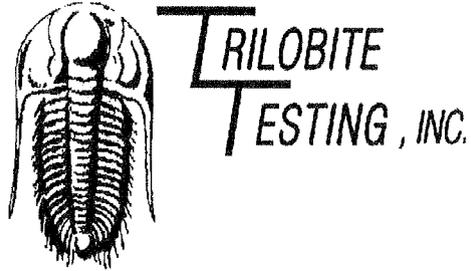
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Berexco Inc.**

PO Box 20380  
Wichita, KS 60208

ATTN: Brian Bynog

**32-8-25 Graham KS**

**Knoll North unit D-2**

Start Date: 2008.11.17 @ 09:46:03

End Date: 2008.11.17 @ 15:05:03

Job Ticket #: 33546                      DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Berexco Inc.

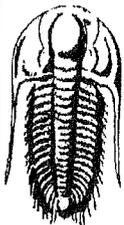
Knoll North unit D-2

32-8-25 Graham KS

DST # 5

LKC "K-L"

2008.11.17



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

ATTN: Brian Bynog

Job Ticket: 33546

**DST#: 5**

Test Start: 2008.11.17 @ 09:46:03

## GENERAL INFORMATION:

Formation: **LKC "K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:40:03

Time Test Ended: 15:05:03

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 31

**Interval: 3980.00 ft (KB) To 4025.00 ft (KB) (TVD)**

Total Depth: 4025.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2513.00 ft (KB)

2504.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8319** Inside

Press@RunDepth: psig @ 3984.00 ft (KB)

Start Date: 2008.11.17

End Date:

2008.11.17

Capacity: 7000.00 psig

Start Time: 09:46:08

End Time:

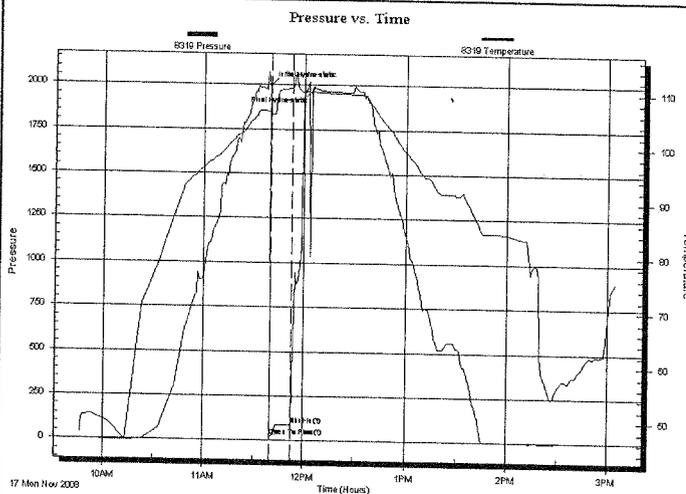
15:05:02

Last Calib.: 2008.11.17

Time On Btm: 2008.11.17 @ 11:39:33

Time Off Btm: 2008.11.17 @ 12:05:03

TEST COMMENT: MIS-RUN PACKER FAILURE



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.12	106.52	Initial Hydro-static
1	23.96	106.01	Open To Flow (1)
13	89.86	110.75	Shut-In(1)
26	1975.77	110.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1500.00	MUD	14.98

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

Job Ticket: 33546

**DST#: 5**

ATTN: Brian Bynog

Test Start: 2008.11.17 @ 09:46:03

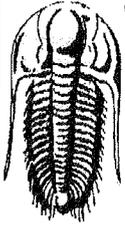
### Tool Information

Drill Pipe:	Length: 3758.00 ft	Diameter: 3.34 inches	Volume: 40.72 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>41.78 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3980.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3954.00	
Shut In Tool	5.00			3959.00	
Hydraulic tool	5.00			3964.00	
Jars	4.00			3968.00	
Safety Joint	3.00			3971.00	
Packer	4.00			3975.00	27.00 Bottom Of Top Packer
Packer	5.00			3980.00	
Stubb	1.00			3981.00	
Perforations	3.00			3984.00	
Recorder	0.00	8319	Inside	3984.00	
Recorder	0.00	8369	Inside	3984.00	
Change Over Sub	1.00			3985.00	
Blank Spacing	31.00			4016.00	
Change Over Sub	1.00			4017.00	
Perforations	5.00			4022.00	
Bullnose	3.00			4025.00	45.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>72.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Berexco Inc.

**Knoll North unit D-2**

PO Box 20380  
Wichita, KS 60208

**32-8-25 Graham KS**

Job Ticket: 33546

**DST#: 5**

ATTN: Brian Bynog

Test Start: 2008.11.17 @ 09:46:03

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.97 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1000.00 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
1500.00	MUD	14.983

Total Length: 1500.00 ft

Total Volume: 14.983 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

