

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration Inc**

6908 NW 112th St
Oklahoma City OK 3162+2976

ATTN: Tisha Love

31 13S 19W Ellis KS

RIEDEL
GE Reidel # 12

Start Date: 2008.01.06 @ 22:44:27

End Date: 2008.01.07 @ 04:42:27

Job Ticket #: 31467 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

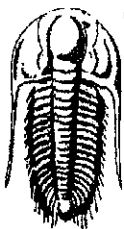
ph: 785-625-4778 fax: 785-625-5620

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JUL 28 2008

CONSERVATION DIVISION
WICHITA, KS

*KC
ms
7/29/08*



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castelli Exploration Inc
6908 NW 112th St
Oklahoma City OK 3162+2976
ATTN: Tisha Love

GE Reidel # 12

31 13S 19W Ellis KS

Job Ticket: 31467

DST#: 1

Test Start: 2008.01.06 @ 22:44:27

GENERAL INFORMATION:

Formation: **L.Kc.-H to J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:39:27

Time Test Ended: 04:42:27

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 20

Interval: **3665.00 ft (KB) To 3748.00 ft (KB) (TVD)**

Total Depth: 3748.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2274.00 ft (KB)

2269.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 22.90 psig @ 3669.00 ft (KB)

Start Date: 2008.01.06

End Date:

2008.01.07

Start Time: 22:44:32

End Time:

04:42:26

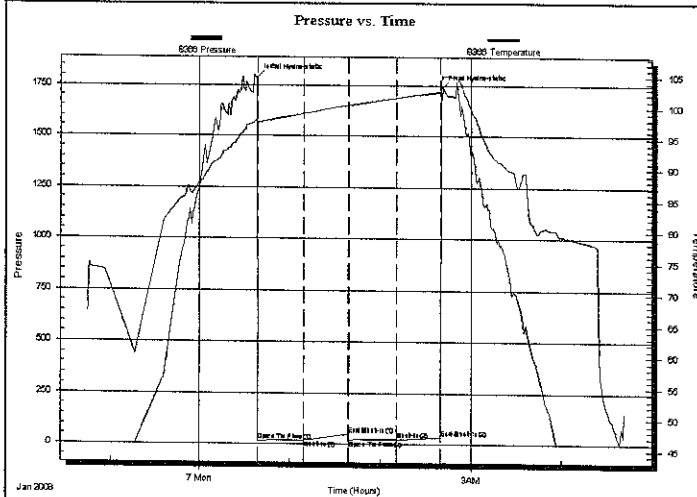
Capacity: 7000.00 psig

Last Calib.: 2008.01.07

Time On Btm: 2008.01.07 @ 00:38:57

Time Off Btm: 2008.01.07 @ 02:40:27

TEST COMMENT: IF Weak built to 2 "
ISI Dead
FF Weak surface 1/2 "
FSI Dead



PRESSURE SUMMARY

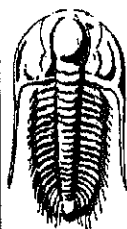
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1785.11	98.06	Initial Hydro-static
1	14.93	97.25	Open To Flow (1)
31	20.14	99.01	Shut-In (1)
60	48.91	100.33	End Shut-In (1)
61	20.59	100.35	Open To Flow (2)
92	22.90	101.58	Shut-In (2)
121	33.71	102.56	End Shut-In (2)
122	1733.17	103.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	DM	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exploration Inc

GE Reidel # 12

6908 NW 112th St
Oklahoma City OK 3162+2976

31 13S 19W Ellis KS

Job Ticket: 31467

DST#: 1

ATTN: Tisha Love

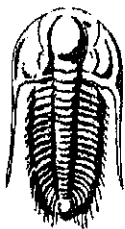
Test Start: 2008.01.06 @ 22:44:27

Tool Information

Drill Pipe:	Length: 3527.00 ft	Diameter: 3.80 inches	Volume: 49.47 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	50.07 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3665.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 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			3646.00	
Shut In Tool	5.00			3651.00	
Hydraulic tool	5.00			3656.00	
Packer	4.00			3660.00	20.00 Bottom Of Top Packer
Packer	5.00			3665.00	
Stubb	1.00			3666.00	
Perforations	2.00			3668.00	
Change Over Sub	1.00			3669.00	
Recorder	0.00	8366	Inside	3669.00	
Recorder	0.00	6672	Outside	3669.00	
Blank Spacing	62.00			3731.00	
Change Over Sub	1.00			3732.00	
Perforations	13.00			3745.00	
Bullnose	3.00			3748.00	83.00 Bottom Packers & Anchor
Total Tool Length:	103.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Castelli Exploration Inc

GE Reidel # 12

6908 NW 112th St
Oklahoma City OK 3162+2976

31 13S 19W Ellis KS

Job Ticket: 31467

DST#: 1

ATTN: Tisha Love

Test Start: 2008.01.06 @ 22:44:27

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 9.97 in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	DM	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

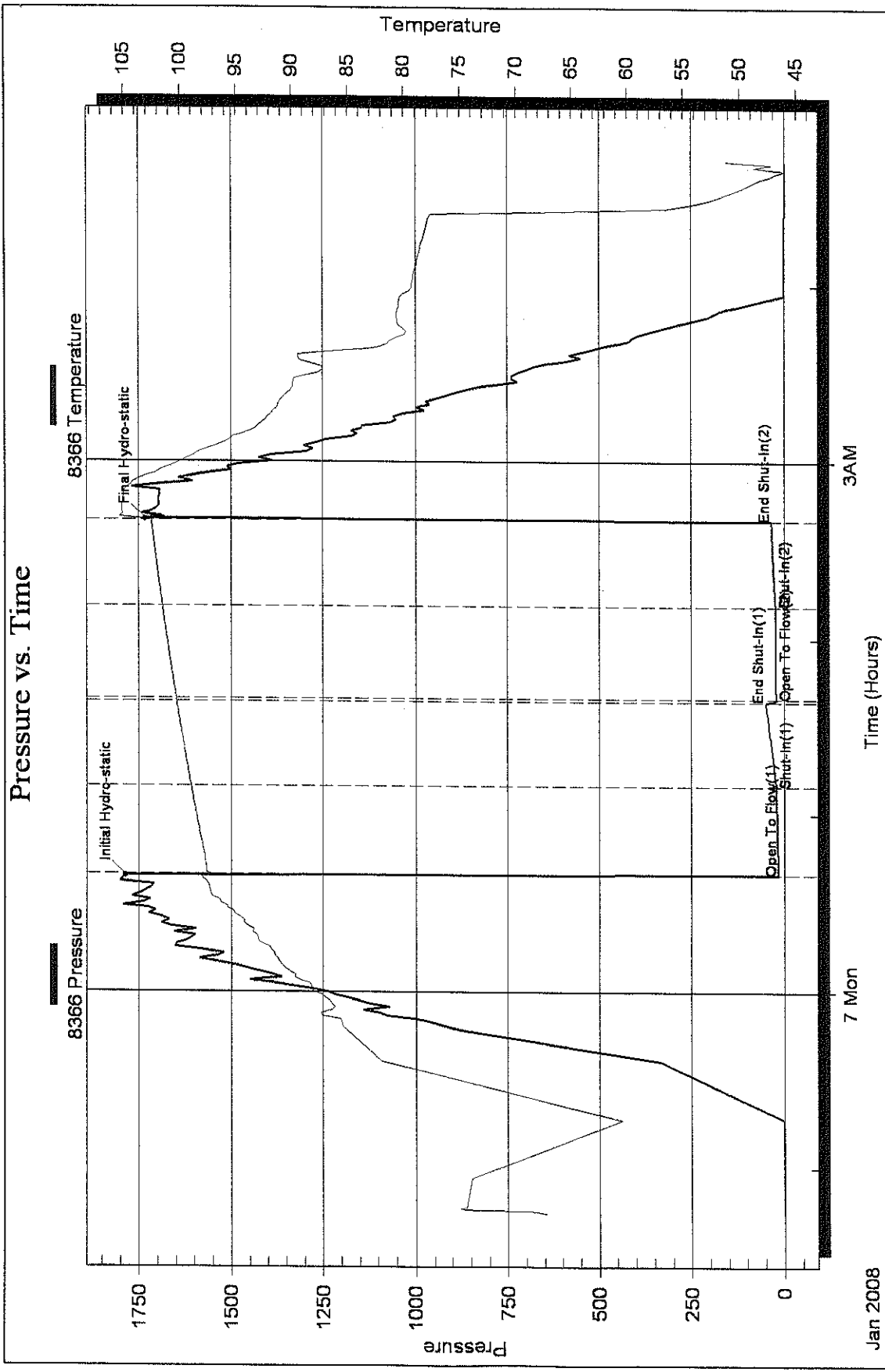
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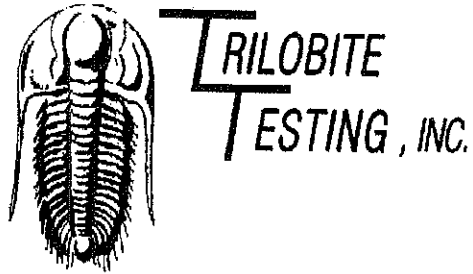
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration Inc**

6908 NW 112th St
Oklahoma City OK 3162+2976

ATTN: Tisha Love

31 13S 19W Ellis KS

GE Reidel # 12

Start Date: 2008.01.07 @ 21:02:43

End Date: 2008.01.08 @ 03:24:43

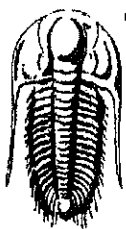
Job Ticket #: 31468 DST #: 2

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JUL 28 2008

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WICHITA, KS

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



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TESTING, INC**

DRILL STEM TEST REPORT

Castelli Exploration Inc
6908 NW 112th St
Oklahoma City OK 3162+2976

GE Reidel # 12

31 13S 19W Ellis KS

Job Ticket: 31468

DST#: 2

ATTN: Tisha Love

Test Start: 2008.01.07 @ 21:02:43

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:23:13

Time Test Ended: 03:24:43

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 20

Interval: **3843.00 ft (KB) To 3903.00 ft (KB) (TVD)**

Total Depth: 3903.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2274.00 ft (KB)

2269.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 21.22 psig @ 3848.00 ft (KB)

Start Date: 2008.01.07

End Date:

2008.01.08

Start Time: 21:02:48

End Time:

03:24:42

Capacity: 7000.00 psig

Last Calib.: 2008.01.08

Time On Btm: 2008.01.07 @ 23:22:43

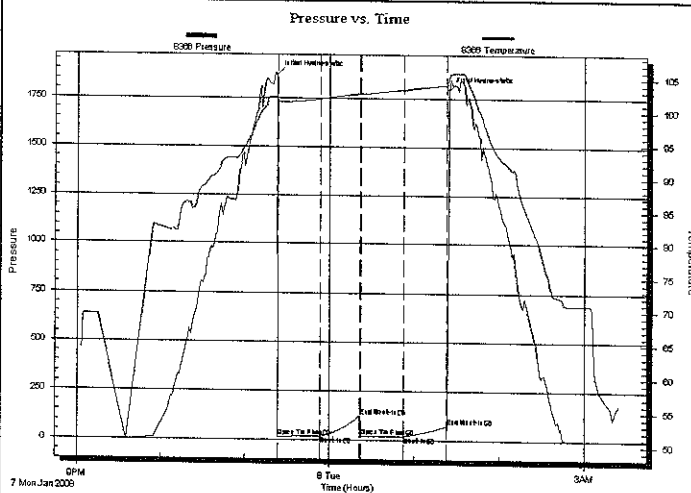
Time Off Btm: 2008.01.08 @ 01:24:13

TEST COMMENT: IF Weak built to 1 "

ISI Dead

FF Dead

FSI Dead



PRESSURE SUMMARY

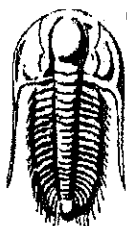
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1872.44	102.22	Initial Hydro-static
1	16.11	101.52	Open To Flow (1)
31	19.61	101.94	Shut-In(1)
59	124.50	102.76	End Shut-In(1)
60	19.92	102.71	Open To Flow (2)
90	21.22	103.37	Shut-In(2)
120	72.69	104.14	End Shut-In(2)
122	1793.80	105.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	DM	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exploration Inc

GE Reidel # 12

6908 NW 112th St
Oklahoma City OK 3162+2976

31 13S 19W Ellis KS

Job Ticket: 31468

DST#: 2

ATTN: Tisha Love

Test Start: 2008.01.07 @ 21:02:43

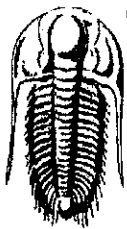
Tool Information

Drill Pipe:	Length: 3714.00 ft	Diameter: 3.80 inches	Volume: 52.10 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	52.70 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3843.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	80.00 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			3824.00	
Shut In Tool	5.00			3829.00	
Hydraulic tool	5.00			3834.00	
Packer	4.00			3838.00	20.00 Bottom Of Top Packer
Packer	5.00			3843.00	
Stubb	1.00			3844.00	
Perforations	3.00			3847.00	
Change Over Sub	1.00			3848.00	
Recorder	0.00	8366	Inside	3848.00	
Recorder	0.00	6672	Outside	3848.00	
Blank Spacing	31.00			3879.00	
Change Over Sub	1.00			3880.00	
Perforations	20.00			3900.00	
Bullnose	3.00			3903.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



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FLUID SUMMARY

Castelli Exploration Inc

GE Reidel # 12

6908 NW 112th St
Oklahoma City OK 3162+2976

31 13S 19W Ellis KS

Job Ticket: 31468

DST#: 2

ATTN: Tisha Love

Test Start: 2008.01.07 @ 21:02:43

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 9.97 in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	DM	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

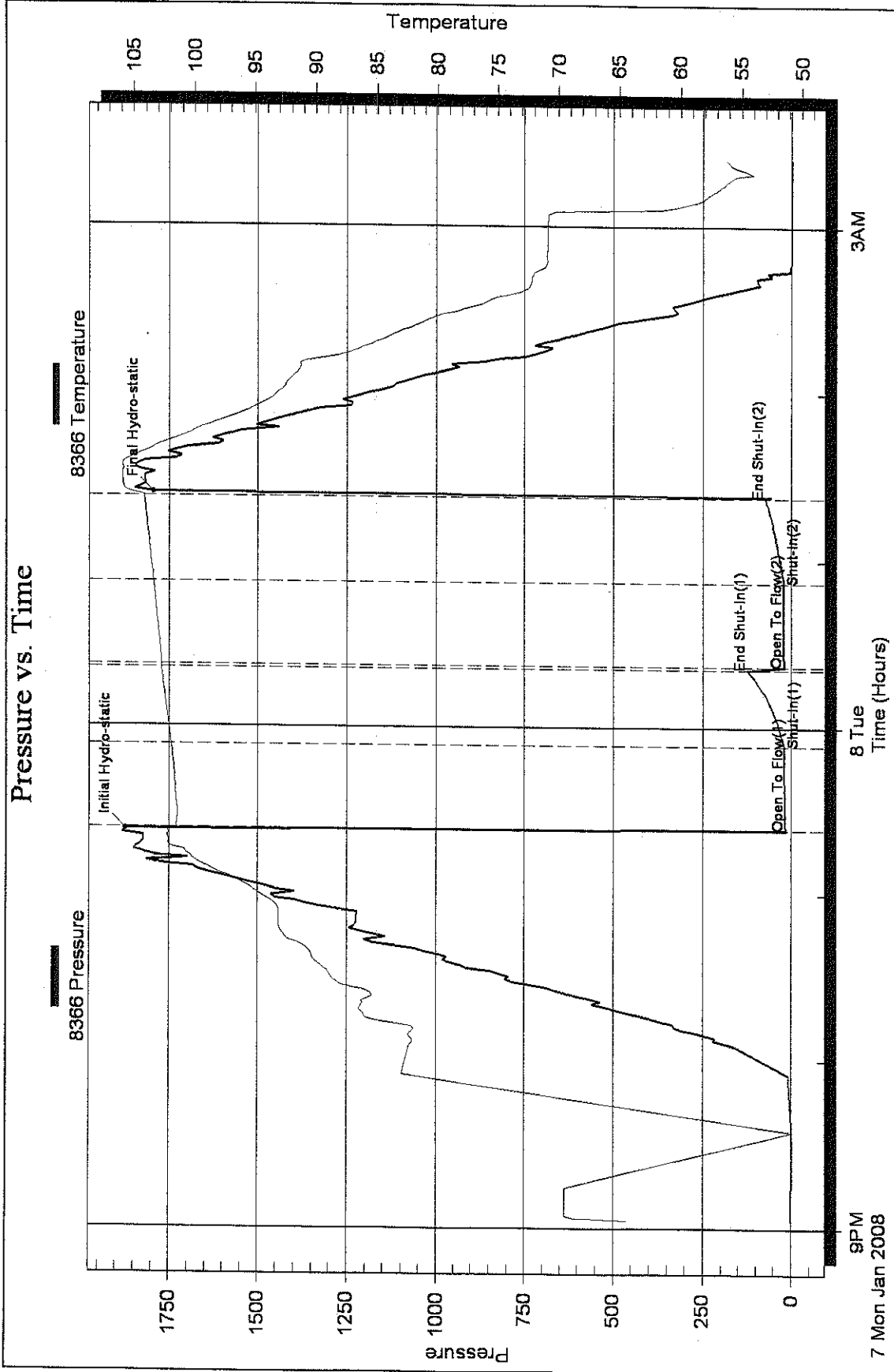
Inside

Castelli Exploration Inc

31 13S 19W Ellis KS

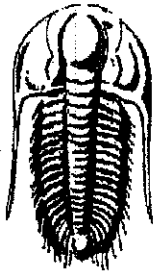
DST Test Number: 2

Pressure vs. Time



10

1



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Prepared For: **Castelli Exploration Inc**

6908 NW 112th St
Oklahoma City OK 3162+2976

ATTN: Tisha Love

31 13S 19W Ellis KS

GE Reidel # 12

Start Date: 2008.01.08 @ 16:54:54

End Date: 2008.01.08 @ 23:41:24

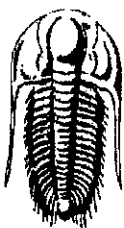
Job Ticket #: 31469 DST #: 3

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

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KANSAS CORPORATION COMMISSION

JUL 28 2008

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Castelli Exploration Inc
6908 NW 112th St
Oklahoma City OK 3162+2976

ATTN: Tisha Love

GE Reidel # 12

31 13S 19W Ellis KS

Job Ticket: 31469

DST#: 3

Test Start: 2008.01.08 @ 16:54:54

GENERAL INFORMATION:

Formation: **Sand**

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

Time Tool Opened: 19:07:54

Time Test Ended: 23:41:24

Interval: **3849.00 ft (KB) To 3922.00 ft (KB) (TVD)**

Total Depth: **3967.00 ft (KB) (TVD)**

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

Test Type: **Conventional Straddle**

Tester: **John Schmidt**

Unit No: **20**

Reference Elevations: **2274.00 ft (KB)**

2269.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672 Outside

Press@RunDepth: **152.09 psig @ 3854.00 ft (KB)**

Start Date: **2008.01.08**

End Date:

2008.01.08

Start Time: **16:54:59**

End Time:

23:41:23

Capacity: **7000.00 psig**

Last Calib.: **2008.01.08**

Time On Btm: **2008.01.08 @ 19:07:24**

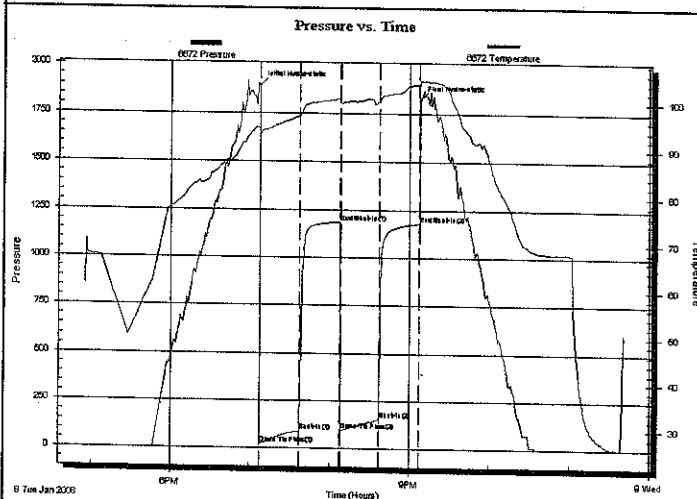
Time Off Btm: **2008.01.08 @ 21:07:54**

TEST COMMENT: IF Weak to fair built to 6 "

ISI Dead

FF Strong BOB 22 min.

FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.56	94.81	Initial Hydro-static
1	20.92	93.32	Open To Flow (1)
30	87.89	97.22	Shut-In(1)
60	1186.94	100.87	End Shut-In(1)
61	93.11	99.97	Open To Flow (2)
89	152.09	100.36	Shut-In(2)
120	1178.78	104.03	End Shut-In(2)
121	1822.45	104.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	Oil Stain Mud 2%O 98%M	2.81

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exploration Inc

GE Reidel # 12

6908 NW 112th St
Oklahoma City OK 3162+2976

31 13S 19W Ellis KS

Job Ticket: 31469

DST#: 3

ATTN: Tisha Love

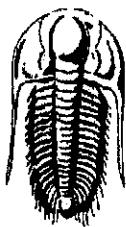
Test Start: 2008.01.08 @ 16:54:54

Tool Information

Drill Pipe:	Length: 3715.00 ft	Diameter: 3.80 inches	Volume: 52.11 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	61000.00 lb
		Total Volume:	52.71 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3849.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	3922.00 ft				
Interval between Packers:	73.00 ft				
Tool Length:	137.00 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			3830.00	
Shut In Tool	5.00			3835.00	
Hydraulic tool	5.00			3840.00	
Packer	4.00			3844.00	20.00 Bottom Of Top Packer
Packer	5.00			3849.00	
Stubb	1.00			3850.00	
Perforations	3.00			3853.00	
Change Over Sub	1.00			3854.00	
Recorder	0.00	6672	Outside	3854.00	
Blank Spacing	62.00			3916.00	
Change Over Sub	1.00			3917.00	
Perforations	4.00			3921.00	
Blank Off Sub	1.00			3922.00	73.00 Tool Interval
Packer	0.00			3922.00	
Perforations	5.00			3927.00	
Change Over Sub	1.00			3928.00	
Blank Spacing	31.00			3959.00	
Change Over Sub	1.00			3960.00	
Perforations	3.00			3963.00	
Recorder	0.00	13534	Outside	3963.00	
Bullnose	3.00			3966.00	44.00 Bottom Packers & Anchor
Total Tool Length:		137.00			



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31 13S 19W Ellis KS

Job Ticket: 31469

DST#: 3

ATTN: Tisha Love

Test Start: 2008.01.08 @ 16:54:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Oil API:

deg API

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Salinity:

ppm

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	Oil Stain Mud 2%O 98%M	2.807

Total Length: 280.00 ft

Total Volume: 2.807 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

