

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**

PO Box 87
Hays KS 67601

ATTN: Jerry Green

34 14 16 Ellis KS

Cora # 1

Start Date: 2008.01.17 @ 14:42:58

End Date: 2008.01.17 @ 20:20:58

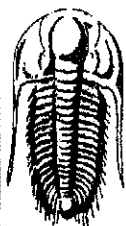
Job Ticket #: 31439 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 08 2008

CONSERVATION DIVISION
WICHITA, KS

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Castle Resources Inc

PO Box 87
Hays KS 67601

ATTN: Jerry Green

Cora # 1

34 14 16 Ellis KS

Job Ticket: 31439

DST#: 1

Test Start: 2008.01.17 @ 14:42:58

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:40:28

Time Test Ended: 20:20:58

Interval: **3300.00 ft (KB) To 3377.00 ft (KB) (TVD)**

Total Depth: 3436.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle

Tester: Dan Bangle

Unit No: 38

Reference Elevations: 1836.00 ft (KB)

1831.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8370

Inside

Press@RunDepth: 21.93 psig @ 3303.00 ft (KB)

Start Date: 2008.01.17

End Date:

2008.01.17

Start Time: 14:42:59

End Time:

20:20:58

Capacity: 7000.00 psig

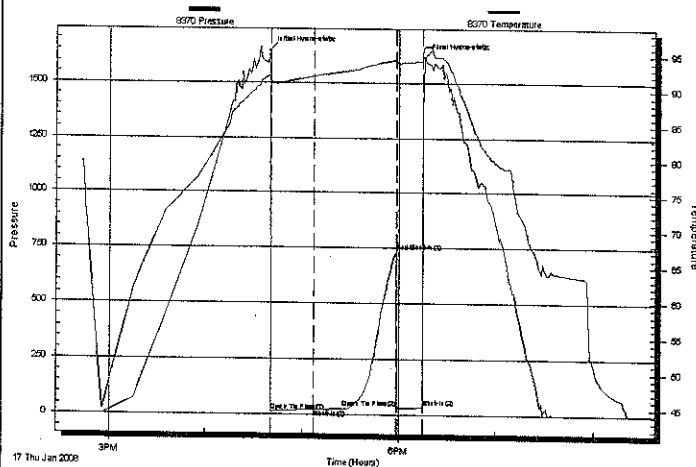
Last Calib.: 2008.01.17

Time On Btm: 2008.01.17 @ 16:39:58

Time Off Btm: 2008.01.17 @ 18:15:58

TEST COMMENT: IF Weak building to 1/2 "
FF Weak steady surface blow

Pressure vs. Time



PRESSURE SUMMARY

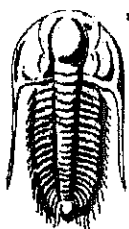
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1645.40	91.96	Initial Hydro-static
1	14.11	91.07	Open To Flow (1)
27	21.93	92.03	Shut-In (1)
78	736.43	94.40	End Shut-In (1)
79	29.26	94.01	Open To Flow (2)
95	33.76	94.24	Shut-In (2)
96	1614.58	96.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 20% O 80% M	0.10

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

Castle Resources Inc

Cora # 1

PO Box 87
Hays KS 67601

34 14 16 Ellis KS

Job Ticket: 31439

DST#: 1

ATTN: Jerry Green

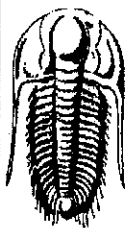
Test Start: 2008.01.17 @ 14:42:58

Tool Information

Drill Pipe:	Length: 3158.00 ft	Diameter: 3.80 inches	Volume: 44.30 bbl	Tool Weight: 2000.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 44.90 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	3300.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	3377.00 ft			
Interval between Packers:	77.00 ft			
Tool Length:	157.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3280.00	
Shut In Tool	5.00			3285.00	
Hydraulic tool	5.00			3290.00	
Packer	5.00			3295.00	21.00 Bottom Of Top Packer
Packer	5.00			3300.00	
Stubb	1.00			3301.00	
Perforations	1.00			3302.00	
Change Over Sub	1.00			3303.00	
Recorder	0.00	8370	Inside	3303.00	
Drill Pipe	62.00			3365.00	
Change Over Sub	1.00			3366.00	
Recorder	0.00	13254	Outside	3366.00	
Perforations	7.00			3373.00	
Blank Off Sub	1.00			3374.00	
Blank Spacing	3.00			3377.00	77.00 Tool interval
Packer	2.00			3379.00	
Stubb	1.00			3380.00	
Perforations	15.00			3395.00	
Change Over Sub	1.00			3396.00	
Recorder	0.00	8368	Outside	3396.00	
Drill Pipe	31.00			3427.00	
Change Over Sub	1.00			3428.00	
Perforations	5.00			3433.00	
Bullnose	3.00			3436.00	59.00 Bottom Packers & Anchor
Total Tool Length:	157.00				



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources Inc

Cora # 1

PO Box 87
Hays KS 67601

34 14 16 Ellis KS

Job Ticket: 31439

DST#: 1

ATTN: Jerry Green

Test Start: 2008.01.17 @ 14:42:58

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM 20%O 80%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

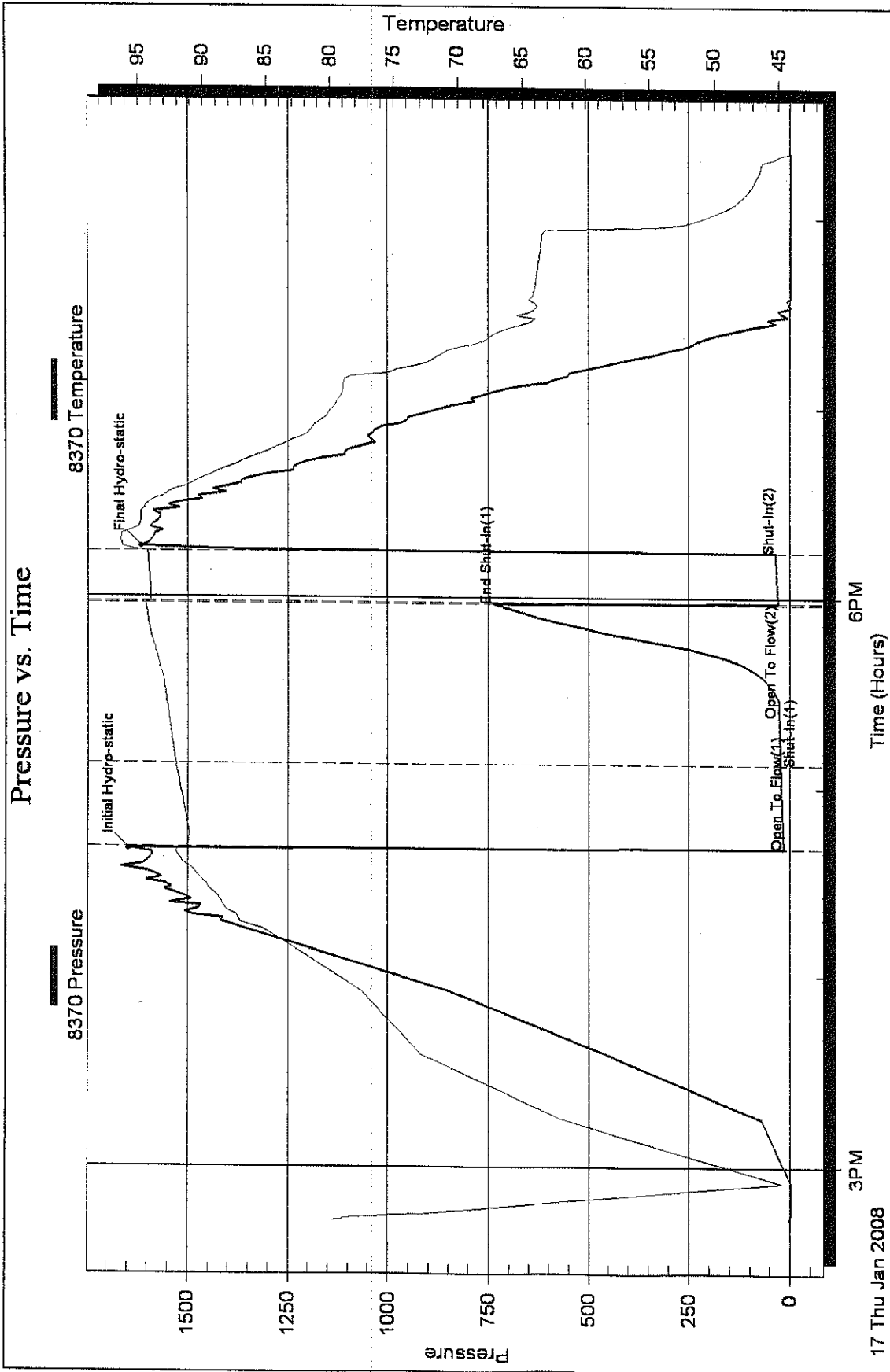
Serial #:

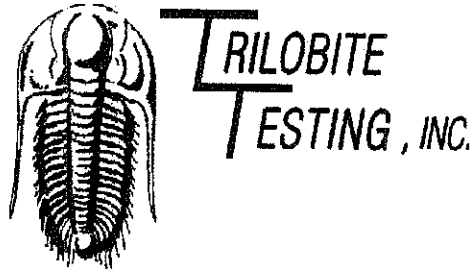
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**

PO Box 87
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ATTN: Jerry Green

34 14 16 Ellis KS

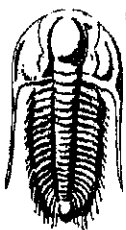
Cora # 1

Start Date: 2008.01.17 @ 20:48:47

End Date: 2008.01.18 @ 03:58:17

Job Ticket #: 31440 DST #: 2

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Castle Resources Inc

Cora # 1

PO Box 87
Hays KS 67601

34 14 16 Ellis KS

Job Ticket: 31440

DST#:2

ATTN: Jerry Green

Test Start: 2008.01.17 @ 20:48:47

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 22:40:47

Time Test Ended: 03:58:17

Test Type: **Conventional Straddle**

Tester: **Dan Bangle**

Unit No: **38**

Interval: **3374.00 ft (KB) To 3389.00 ft (KB) (TVD)**

Total Depth: **3436.00 ft (KB) (TVD)**

Reference Elevations: **1836.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

1831.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8370 **Inside**

Press@RunDepth: **270.57 psig @ 3375.00 ft (KB)**

Start Date: **2008.01.17**

End Date:

2008.01.18

Capacity: **7000.00 psig**

Last Calib.: **2008.01.18**

Start Time: **20:48:48**

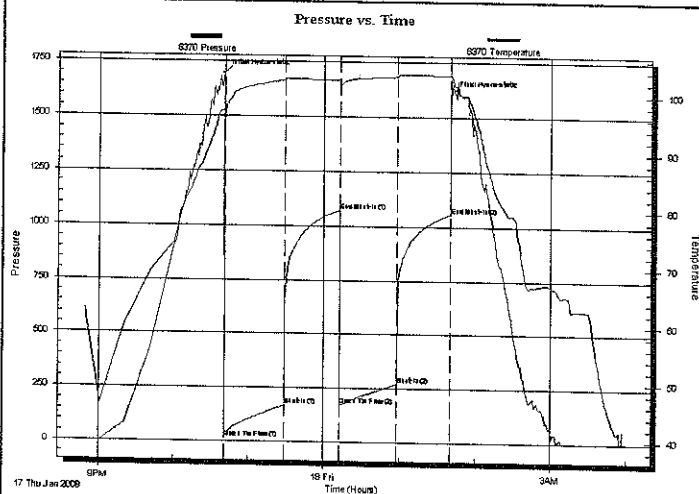
End Time:

03:58:17

Time On Btm: **2008.01.17 @ 22:39:47**

Time Off Btm: **2008.01.18 @ 01:40:47**

TEST COMMENT: IF Weak building to 11 " fair blow
FF Weak building to 5 " fair blow



PRESSURE SUMMARY

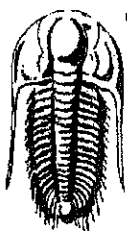
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.43	97.24	Initial Hydro-static
1	16.32	96.61	Open To Flow (1)
49	169.02	102.36	Shut-In (1)
93	1069.90	102.53	End Shut-In (1)
93	171.63	101.98	Open To Flow (2)
138	270.57	103.24	Shut-In (2)
181	1053.83	103.37	End Shut-In (2)
181	1605.72	103.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
548.00	Wtr	6.58
10.00	CO	0.14

Gas Rates

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

TOOL DIAGRAM

Castle Resources Inc

Cora # 1

PO Box 87
Hays KS 67601

34 14 16 Ellis KS

Job Ticket: 31440

DST#: 2

ATTN: Jerry Green

Test Start: 2008.01.17 @ 20:48:47

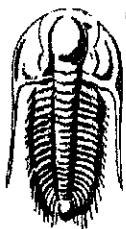
Tool Information

Drill Pipe:	Length: 3245.00 ft	Diameter: 3.80 inches	Volume: 45.52 bbl	Tool Weight:	2000.00 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	46.12 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	3374.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	3389.00 ft				
Interval between Packers:	15.00 ft				
Tool Length:	83.00 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			3354.00	
Shut In Tool	5.00			3359.00	
Hydraulic tool	5.00			3364.00	
Packer	5.00			3369.00	21.00 Bottom Of Top Packer
Packer	5.00			3374.00	
Stubb	1.00			3375.00	
Recorder	0.00	8370	Inside	3375.00	
Perforations	10.00			3385.00	
Recorder	0.00	13254	Outside	3385.00	
Blank Off Sub	1.00			3386.00	
Blank Spacing	3.00			3389.00	15.00 Tool Interval
Packer	2.00			3391.00	
Stubb	1.00			3392.00	
Perforations	3.00			3395.00	
Change Over Sub	1.00			3396.00	
Recorder	0.00	8368	Outside	3396.00	
Drill Pipe	31.00			3427.00	
Change Over Sub	1.00			3428.00	
Perforations	5.00			3433.00	
Bullnose	3.00			3436.00	47.00 Bottom Packers & Anchor

Total Tool Length: 83.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources Inc

Cora # 1

PO Box 87
Hays KS 67601

34 14 16 Ellis KS

Job Ticket: 31440

DST#: 2

ATTN: Jerry Green

Test Start: 2008.01.17 @ 20:48:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Oil API:

deg API

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Salinity:

ppm

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
548.00	Wtr	6.576
10.00	CO	0.140

Total Length: 558.00 ft

Total Volume: 6.716 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

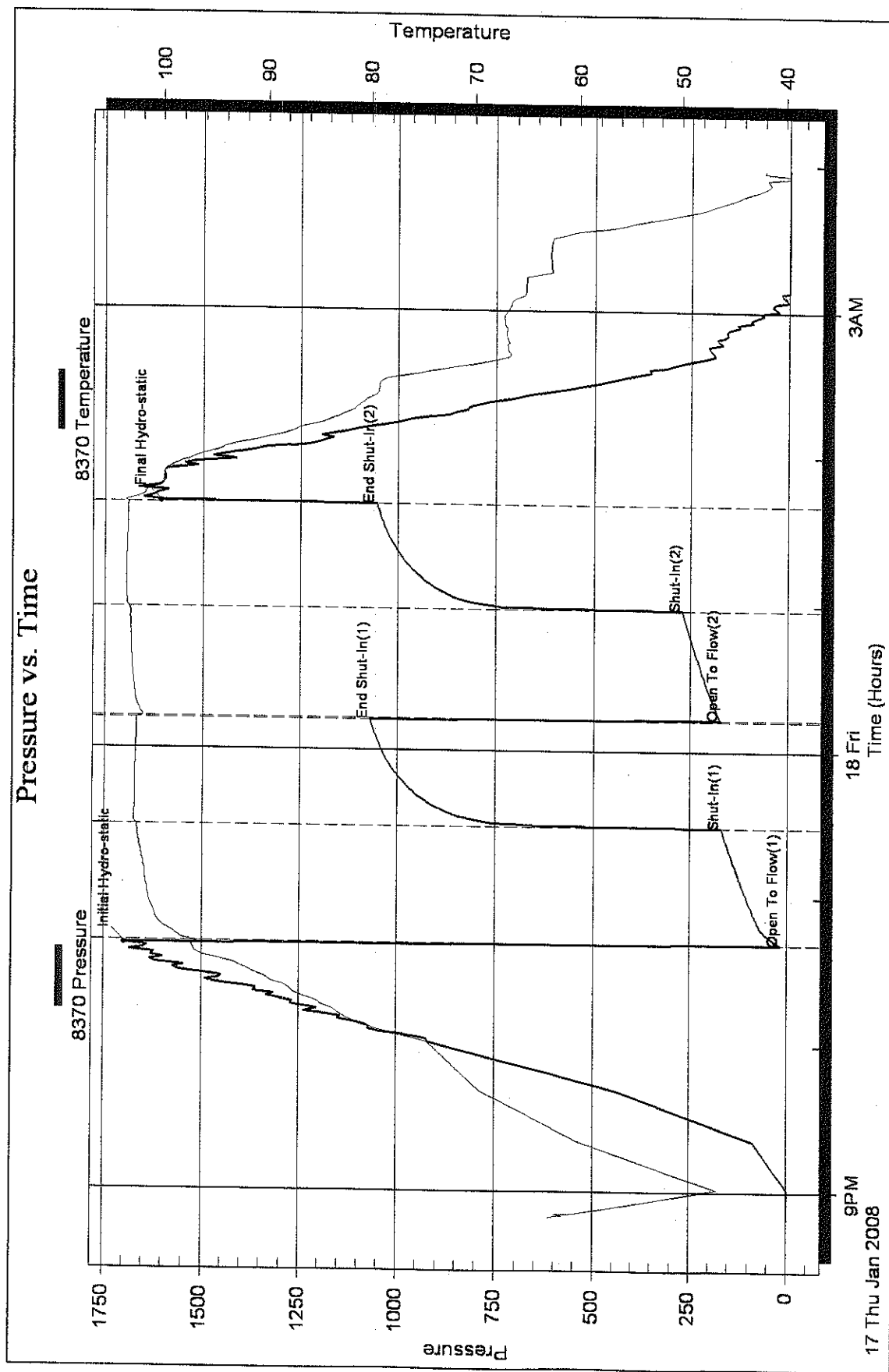
Serial #:

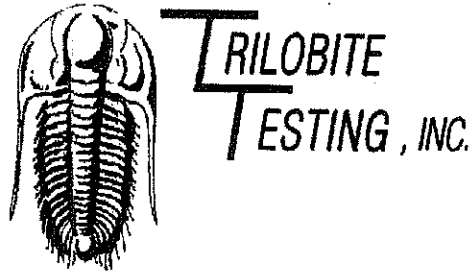
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**

PO Box 87
Hays KS 67601

ATTN: Jerry Green

34 14 16 Ellis KS

Cora # 1

Start Date: 2008.01.18 @ 08:33:25

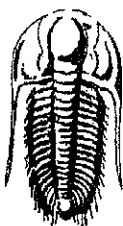
End Date: 2008.01.18 @ 14:57:25

Job Ticket #: 31442 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Castle Resources Inc

Cora # 1

PO Box 87
Hays KS 67601

34 14 16 Ellis KS

Job Ticket: 31442

DST#: 3

ATTN: Jerry Green

Test Start: 2008.01.18 @ 08:33:25

GENERAL INFORMATION:

Formation: **LKC**

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

Time Tool Opened: 10:31:25

Time Test Ended: 14:57:25

Test Type: **Conventional Straddle**

Tester: **Dan Bangle**

Unit No: **38**

Interval: **3090.00 ft (KB) To 3210.00 ft (KB) (TVD)**

Total Depth: **3436.00 ft (KB) (TVD)**

Reference Elevations: **1836.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

1831.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8370

Inside

Press@RunDepth: **136.45 psig @ 3093.00 ft (KB)**

Start Date: **2008.01.18**

End Date:

2008.01.18

Capacity: **7000.00 psig**

Last Calib.: **2008.01.18**

Start Time: **08:33:26**

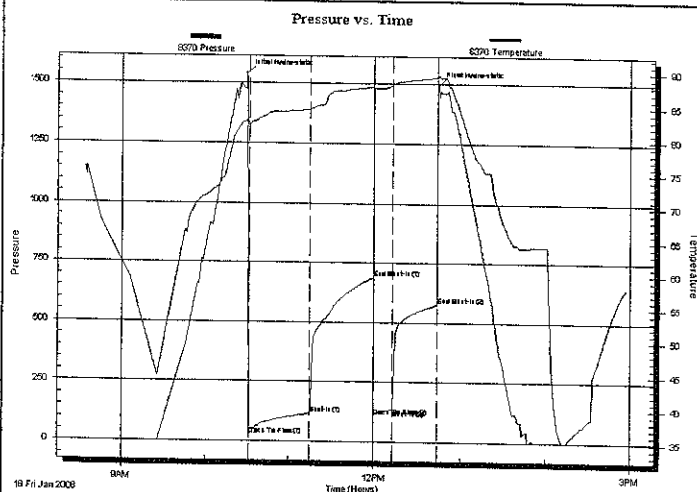
End Time:

14:57:25

Time On Btm: **2008.01.18 @ 10:29:55**

Time Off Btm: **2008.01.18 @ 12:44:55**

TEST COMMENT: IF Weak building to 5 " then decreasing to 1 " in 45 min
FF Weak building to 1/2 "



PRESSURE SUMMARY

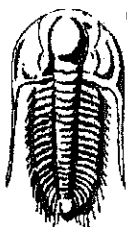
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1538.08	82.81	Initial Hydro-static
2	22.75	82.45	Open To Flow (1)
45	117.97	84.55	Shut-In (1)
90	685.94	88.02	End Shut-In (1)
90	109.20	87.58	Open To Flow (2)
104	136.45	88.29	Shut-In (2)
134	577.01	89.36	End Shut-In (2)
135	1494.36	89.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
215.00	OSpkGMW 50%W 50%M	1.90

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

Castle Resources Inc

Cora # 1

PO Box 87
Hays KS 67601

34 14 16 Ellis KS

ATTN: Jerry Green

Job Ticket: 31442

DST#: 3

Test Start: 2008.01.18 @ 08:33:25

Tool Information

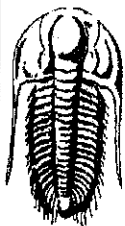
Drill Pipe:	Length: 2965.00 ft	Diameter: 3.80 inches	Volume: 41.59 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	42.19 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	3090.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	3210.00 ft				
Interval between Packers:	120.00 ft				
Tool Length:	367.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3070.00	
Shut In Tool	5.00			3075.00	
Hydraulic tool	5.00			3080.00	
Packer	5.00			3085.00	21.00 Bottom Of Top Packer
Packer	5.00			3090.00	
Stubb	1.00			3091.00	
Perforations	1.00			3092.00	
Change Over Sub	1.00			3093.00	
Recorder	0.00	8370	Inside	3093.00	
Drill Pipe	93.00			3186.00	
Change Over Sub	1.00			3187.00	
Recorder	0.00	13254	Outside	3187.00	
Perforations	19.00			3206.00	
Blank Off Sub	1.00			3207.00	
Blank Spacing	3.00			3210.00	120.00 Tool Interval
Packer	2.00			3212.00	
Perforations	3.00			3215.00	
Change Over Sub	1.00			3216.00	
Recorder	0.00	8368	Outside	3216.00	
Drill Pipe	216.00			3432.00	
Change Over Sub	1.00			3433.00	
Bullnose	3.00			3436.00	226.00 Bottom Packers & Anchor

Total Tool Length: 367.00



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FLUID SUMMARY

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Cora # 1

PO Box 87
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34 14 16 Ellis KS

Job Ticket: 31442

DST#: 3

ATTN: Jerry Green

Test Start: 2008.01.18 @ 08:33:25

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: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
215.00	OSpkGMW 50%W 50%M	1.905

Total Length: 215.00 ft

Total Volume: 1.905 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

