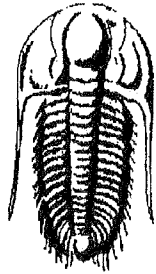


15-101-22070

8-19s-29w

REC



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State Rd
Olmitz KS 67564-8561

CONFIDENTIAL
MAY 14 2008

KCC

ATTN: Tom Funk

8 19S 29W Lane KS

Rita #1-8

Start Date: 2008.01.24 @ 09:01:03

End Date: 2008.01.24 @ 18:33:33

Job Ticket #: 29531 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 15 2008

CONSERVATION DIVISION
WICHITA, KS

Larson Engineering

Rita #1-8

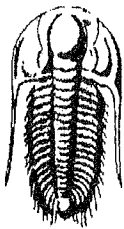
8 19S 29W Lane KS

DST # 1

"1,1"

2008.01.24

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering
562 W State Rd
Olmitz KS 67564-8561
ATTN: Tom Funk

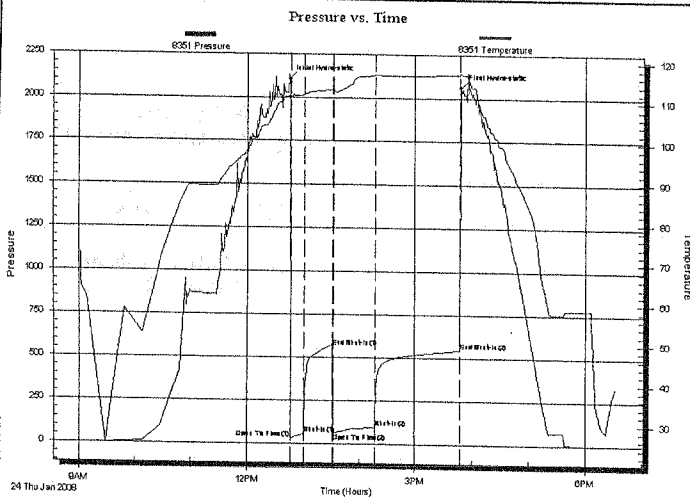
Rita #1-8
8 19S 29W Lane KS
Job Ticket: 29531 DST#: 1
Test Start: 2008.01.24 @ 09:01:03

GENERAL INFORMATION:

Formation: "I,J"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:45:48
Time Test Ended: 18:33:33
Interval: 4173.00 ft (KB) To 4230.00 ft (KB) (TVD)
Total Depth: 4230.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37
Reference Elevations: 2840.00 ft (KB)
2835.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8351 Inside
Press@RunDepth: 95.35 psig @ 4175.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.01.24 End Date: 2008.01.24 Last Calib.: 2008.01.24
Start Time: 09:01:08 End Time: 18:33:33 Time On Btm: 2008.01.24 @ 12:44:18
Time Off Btm: 2008.01.24 @ 15:48:48

TEST COMMENT: IF 3" Blow
ISI No return
FF 6" Blow
FSI Weak surface blow died @ 10 min.



PRESSURE SUMMARY

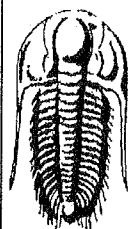
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2100.68	111.50	Initial Hydro-static
2	25.75	111.16	Open To Flow (1)
17	56.92	111.84	Shut-In(1)
47	563.16	112.97	End Shut-In(1)
47	59.22	112.70	Open To Flow (2)
93	95.35	116.71	Shut-In(2)
184	546.26	116.85	End Shut-In(2)
185	2059.04	117.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OWCM 2%O 18%W 80%M	0.59
35.00	OWCM 5%O 10%W 85%M	0.17
0.00	30 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering
562 W State Rd
Olmitz KS 67564-8561
ATTN: Tom Funk

Rita #1-8
8 19S 29W Lane KS
Job Ticket: 29531 **DST#: 1**
Test Start: 2008.01.24 @ 09:01:03

Tool Information

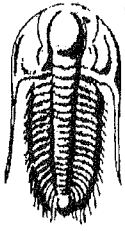
Drill Pipe:	Length: 4017.00 ft	Diameter: 3.80 inches	Volume: 56.35 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4173.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	85.00 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			4146.00		
Shut In Tool	5.00			4151.00		
Hydraulic tool	5.00			4156.00		
Jars	5.00			4161.00		
Safety Joint	3.00			4164.00		
Packer	5.00			4169.00	28.00	Bottom Of Top Packer
Packer	4.00			4173.00		
Stubb	1.00			4174.00		
Perforations	1.00			4175.00		
Recorder	0.00	8017	Inside	4175.00		
Recorder	0.00	8351	Inside	4175.00		
Perforations	18.00			4193.00		
Change Over Sub	1.00			4194.00		
Drill Pipe	30.00			4224.00		
Change Over Sub	1.00			4225.00		
Bullnose	5.00			4230.00	57.00	Bottom Packers & Anchor
Total Tool Length:	85.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

Rita #1-8

562 W State Rd
Olmitz KS 67564-8561

8 19S 29W Lane KS

ATTN: Tom Funk

Job Ticket: 29531

DST#: 1

Test Start: 2008.01.24 @ 09:01:03

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 9.19 in³

Resistivity: 0.00 ohm.m

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 0 deg API

Water Salinity: 10000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OWCM 2%O 18%W 80%M	0.590
35.00	OWCM 5%O 10%W 85%M	0.172
0.00	30 feet GIP	0.000

Total Length: 155.00 ft Total Volume: 0.762 bbl

Num Fluid Samples: 0

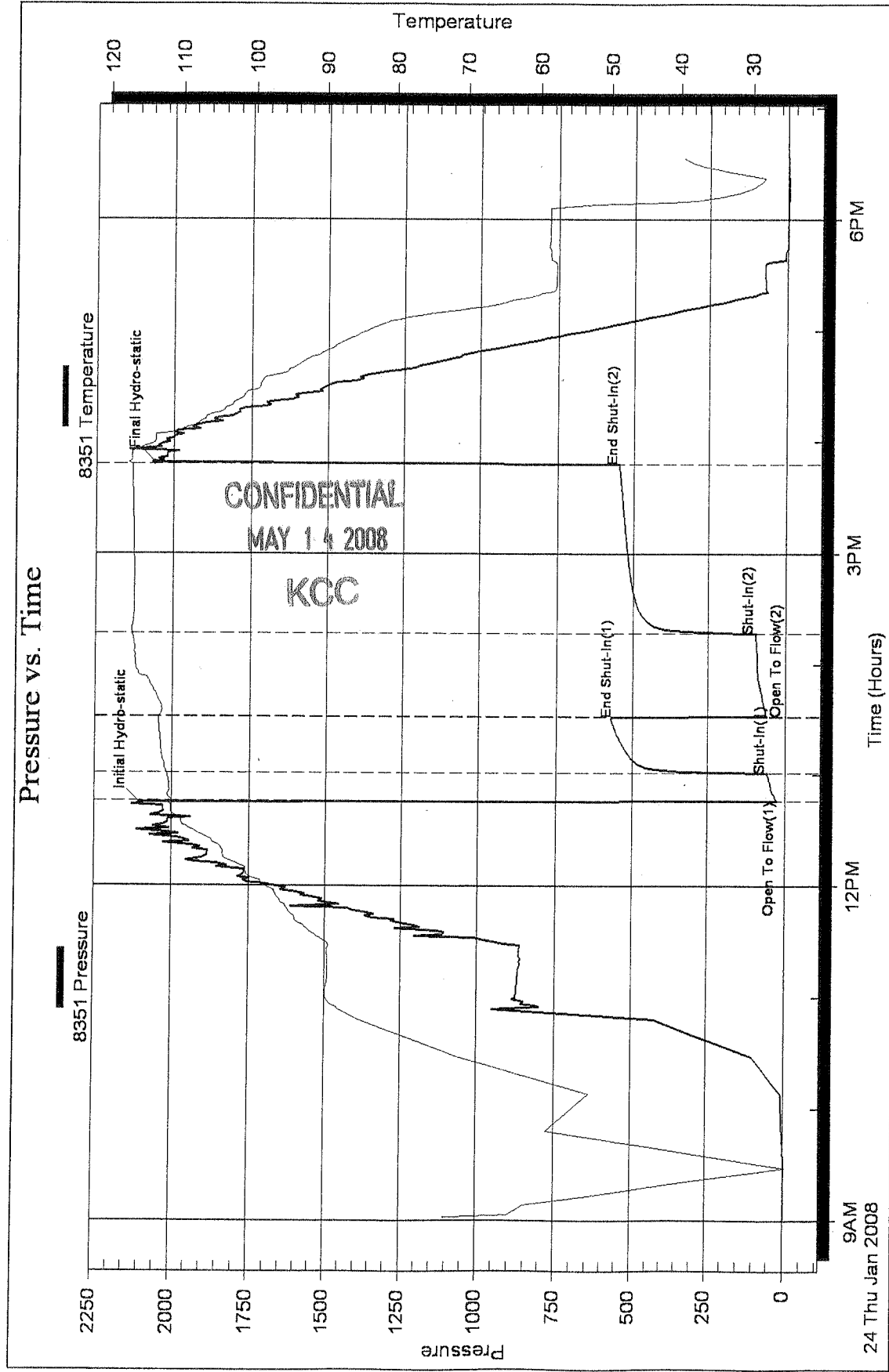
Num Gas Bombs: 0

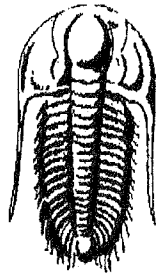
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .890 @ 50 degrees F = 10000 chlorides.





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State Rd
Olmitz KS 67564-8561

CONFIDENTIAL
MAY 14 2008
KCC

ATTN: Tom Funk

8 19S 29W Lane KS

Rita #1-8

Start Date: 2008.01.25 @ 16:52:00

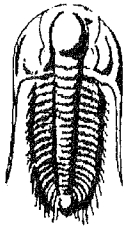
End Date: 2008.01.26 @ 00:54:30

Job Ticket #: 29532 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

Larson Engineering

562 W State Rd
Olmitz KS 67564-8561

ATTN: Tom Funk

Rita #1-8

8 19S 29W Lane KS

Job Ticket: 29532

DST#: 2

Test Start: 2008.01.25 @ 16:52:00

GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:05:15
 Time Test Ended: 00:54:30

Test Type: Conventional Bottom Hole
 Tester: Chuck Smith
 Unit No: 37

Interval: **4340.00 ft (KB) To 4399.00 ft (KB) (TVD)**
 Total Depth: 4399.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2840.00 ft (KB)
 2835.00 ft (CF)
 KB to GRV/CF: 5.00 ft

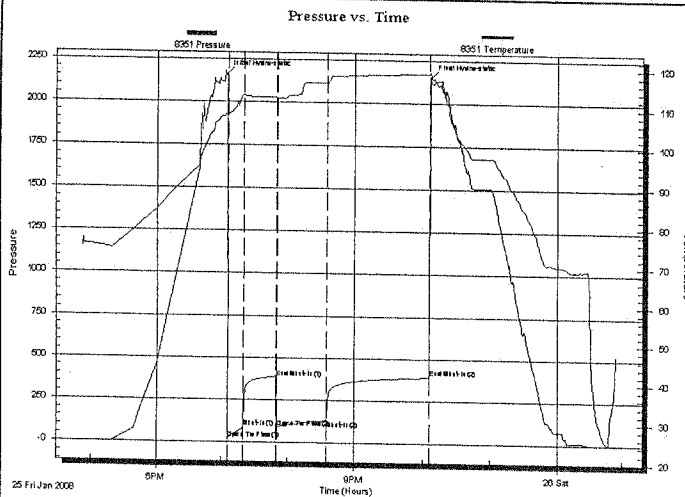
Serial #: 8351

Inside

Press@RunDepth: 129.96 psig @ 4342.00 ft (KB)
 Start Date: 2008.01.25 End Date: 2008.01.26
 Start Time: 16:52:05 End Time: 00:54:29

Capacity: 7000.00 psig
 Last Calib.: 2008.01.26
 Time On Btm: 2008.01.25 @ 19:04:00
 Time Off Btm: 2008.01.25 @ 22:07:15

TEST COMMENT: IF 4" Blow
 ISI No return
 FF 8" Blow
 FSI No return



PRESSURE SUMMARY

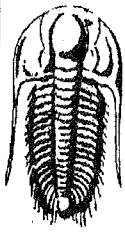
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2155.37	108.47	Initial Hydro-static
2	17.99	107.89	Open To Flow (1)
17	82.98	113.08	Shut-In(1)
47	379.54	112.58	End Shut-In(1)
47	84.18	112.44	Open To Flow (2)
92	129.96	116.34	Shut-In(2)
182	388.54	118.85	End Shut-In(2)
184	2144.51	119.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	100%M	0.30
185.00	OWCM 2%O 23%W 75%M	1.73

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering
 562 W State Rd
 Olmitz KS 67564-8561
 ATTN: Tom Funk

Rita #1-8
8 19S 29W Lane KS
 Job Ticket: 29532 **DST#: 2**
 Test Start: 2008.01.25 @ 16:52:00

Tool Information

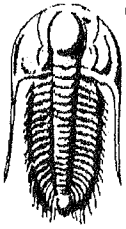
Drill Pipe:	Length: 4167.00 ft	Diameter: 3.80 inches	Volume: 58.45 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume:	59.21 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4340.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	87.00 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	CONFIDENTIAL		4313.00	
Shut In Tool	5.00	MAY 15 2008		4318.00	
Hydraulic tool	5.00			4323.00	
Jars	5.00	KCC		4328.00	
Safety Joint	3.00			4331.00	
Packer	5.00			4336.00	28.00 Bottom Of Top Packer
Packer	4.00			4340.00	
Stubb	1.00			4341.00	
Perforations	1.00			4342.00	
Recorder	0.00	8017	Inside	4342.00	
Recorder	0.00	8351	Inside	4342.00	
Perforations	20.00			4362.00	
Change Over Sub	1.00			4363.00	
Drill Pipe	30.00			4393.00	
Change Over Sub	1.00			4394.00	
Bullnose	5.00			4399.00	59.00 Bottom Packers & Anchor
Total Tool Length:	87.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 W State Rd
Olmitz KS 67564-8561
ATTN: Tom Funk

Rita #1-8
8 19S 29W Lane KS
Job Ticket: 29532 DST#: 2
Test Start: 2008.01.25 @ 16:52:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	21000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	100%M	0.295
185.00	OWCM 2%O 23%W 75%M	1.730

Total Length: 245.00 ft Total Volume: 2.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Scum of Oil in 60 feet.
 RW: .400 @ 54 degrees F = 21000 chlorides.

Pressure vs. Time

