

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Greatbend KS 67530

CONFIDENTIAL
JUL 10 2008

ATTN: Jacob Porter

6 19S 29W Lane KS

Calvin # 1

Start Date: 2008.06.15 @ 13:55:50

End Date: 2008.06.15 @ 20:38:29

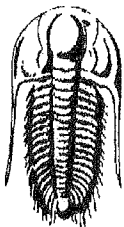
Job Ticket #: 31330

DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31330

DST#: 1

ATTN: Jacob Porter

Test Start: 2008.06.15 @ 13:55:50

GENERAL INFORMATION:

Formation: **LKC-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:45:30

Time Test Ended: 20:38:29

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4126.00 ft (KB) To 4152.00 ft (KB) (TVD)**

Total Depth: 4152.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2847.00 ft (KB)

2842.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Outside

Press@RunDepth: 431.18 psig @ 4127.00 ft (KB)

Start Date: 2008.06.15

End Date:

2008.06.15

Start Time: 13:55:50

End Time:

20:38:29

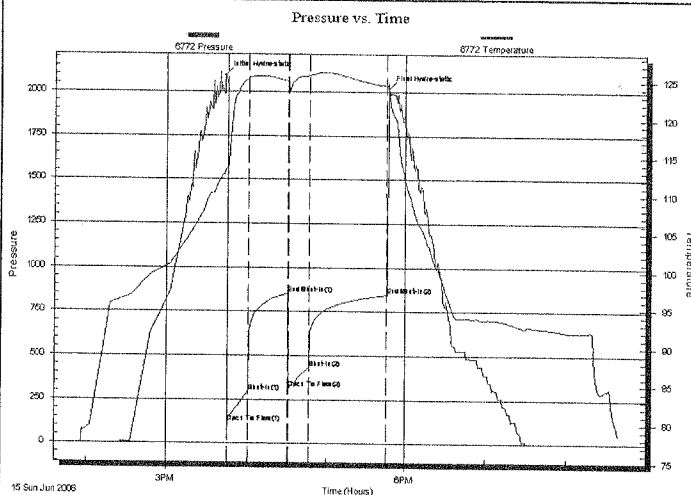
Capacity: 7000.00 psig

Last Calib.: 2008.06.15

Time On Btm: 2008.06.15 @ 15:43:30

Time Off Btm: 2008.06.15 @ 17:47:00

TEST COMMENT: IF 1" blow BOB in 2 min.
IS 1/4 blow built to 4 in 30 min.
FF BOB in 3 min.
FS Surface blow built to 1 in 60 min.



PRESSURE SUMMARY

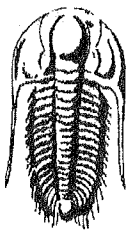
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2091.78	112.94	Initial Hydro-static
2	114.85	113.36	Open To Flow (1)
18	295.02	125.29	Shut-In (1)
47	853.14	124.99	End Shut-In (1)
48	316.44	124.73	Open To Flow (2)
64	431.18	125.69	Shut-In (2)
122	844.85	124.39	End Shut-In (2)
124	2019.48	124.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	MCO 20%G 70%O 10%M	3.25
744.00	GO 20%G 80%O	10.44

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31330

DST#:1

ATTN: Jacob Porter

Test Start: 2008.06.15 @ 13:55:50

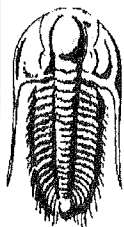
Tool Information

Drill Pipe:	Length: 3892.00 ft	Diameter: 3.80 inches	Volume: 54.59 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 55.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4126.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4100.00	
Shut In Tool	5.00			4105.00	
Hydraulic tool	5.00			4110.00	
Jars	5.00			4115.00	
Safety Joint	2.00			4117.00	
Packer	5.00			4122.00	27.00 Bottom Of Top Packer
Packer	4.00			4126.00	
Stubb	1.00			4127.00	
Recorder	0.00	6769	Inside	4127.00	
Recorder	0.00	6772	Outside	4127.00	
Perforations	20.00			4147.00	
Bullnose	5.00			4152.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31330

DST#: 1

ATTN: Jacob Porter

Test Start: 2008.06.15 @ 13:55:50

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.14 in³

Resistivity: 0.00 ohm.m

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

31 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	MCGO 20%G 70%O 10%M	3.251
744.00	GO 20%G 80%O	10.436

Total Length: 1116.00 ft

Total Volume: 13.687 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

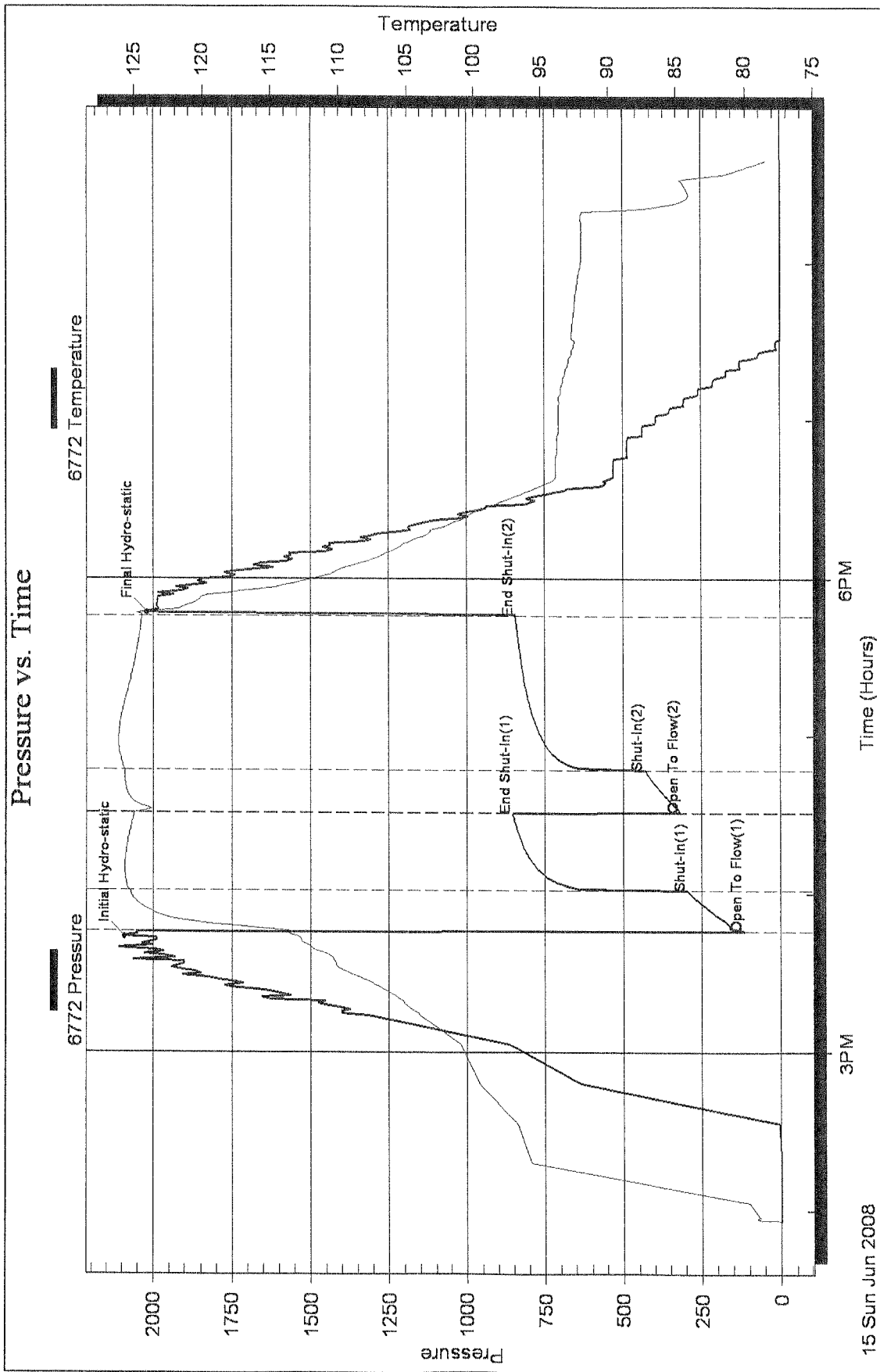
Serial #:

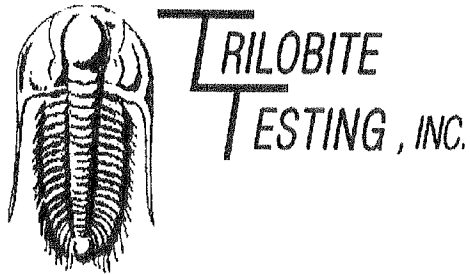
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Greatbend KS 67530

ATTN: Jacob Porter

6 19S 29W Lane KS

Calvin # 1

Start Date: 2008.06.16 @ 05:33:36

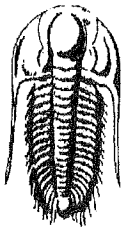
End Date: 2008.06.16 @ 09:33:01

Job Ticket #: 31331 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc
PO Box 47
Greatbend KS 67530
ATTN: Jacob Porter

Calvin # 1

6 19S 29W Lane KS

Job Ticket: 31331

DST#: 2

Test Start: 2008.06.16 @ 05:33:36

GENERAL INFORMATION:

Formation: **LKC- I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:16:01

Time Test Ended: 09:33:01

Interval: **4176.00 ft (KB) To 4215.00 ft (KB) (TVD)**

Total Depth: 4215.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Reference Elevations: 2847.00 ft (KB)

2842.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772 Outside

Press@RunDepth: psig @ 4177.00 ft (KB)

Start Date: 2008.06.16

End Date:

2008.06.16

Start Time: 05:33:36

End Time:

09:33:01

Capacity: 7000.00 psig

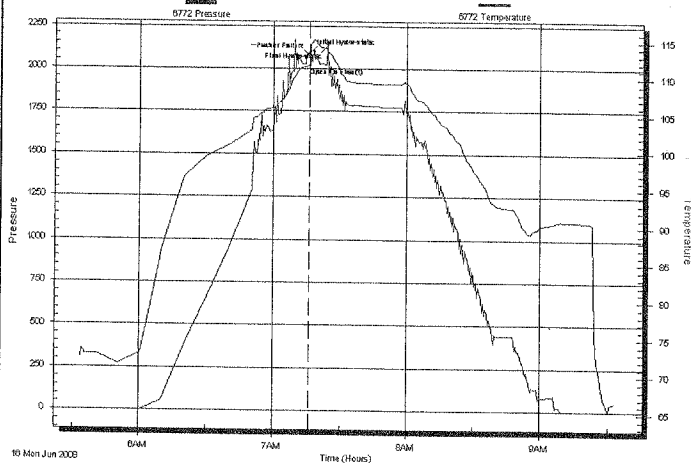
Last Calib.: 2008.06.16

Time On Btm: 2008.06.16 @ 07:15:46

Time Off Btm: 2008.06.16 @ 07:24:01

TEST COMMENT: Packers failed @ open

Pressure vs Time



PRESSURE SUMMARY

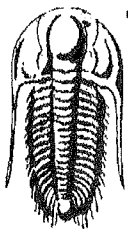
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2089.32	111.70	Initial Hydro-static
1	1954.47	112.12	Open To Flow (1)
1	2068.03	114.15	--Packer Failure
9	2136.33	113.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
247.00	100%M	1.50

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31331

DST#: 2

ATTN: Jacob Porter

Test Start: 2008.06.16 @ 05:33:36

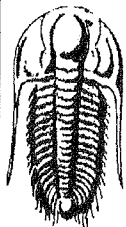
Tool Information

Drill Pipe:	Length: 3957.00 ft	Diameter: 3.80 inches	Volume: 55.51 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	52000.00 lb
		Total Volume:	56.57 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4176.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	66.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4150.00	
Shut In Tool	5.00			4155.00	
Hydraulic tool	5.00			4160.00	
Jars	5.00			4165.00	
Safety Joint	2.00			4167.00	
Packer	5.00			4172.00	27.00 Bottom Of Top Packer
Packer	4.00			4176.00	
Stubb	1.00			4177.00	
Recorder	0.00	6769	Inside	4177.00	
Recorder	0.00	6772	Outside	4177.00	
Perforations	2.00			4179.00	
Change Over Sub	1.00			4180.00	
Drill Pipe	29.00			4209.00	
Change Over Sub	1.00			4210.00	
Bullnose	5.00			4215.00	39.00 Bottom Packers & Anchor

Total Tool Length: 66.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31331

DST#: 2

ATTN: Jacob Porter

Test Start: 2008.06.16 @ 05:33:36

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.13 in³

Resistivity: 0.00 ohm.m

Salinity: 2700.00 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:

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
247.00	100%M	1.497

Total Length: 247.00 ft Total Volume: 1.497 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

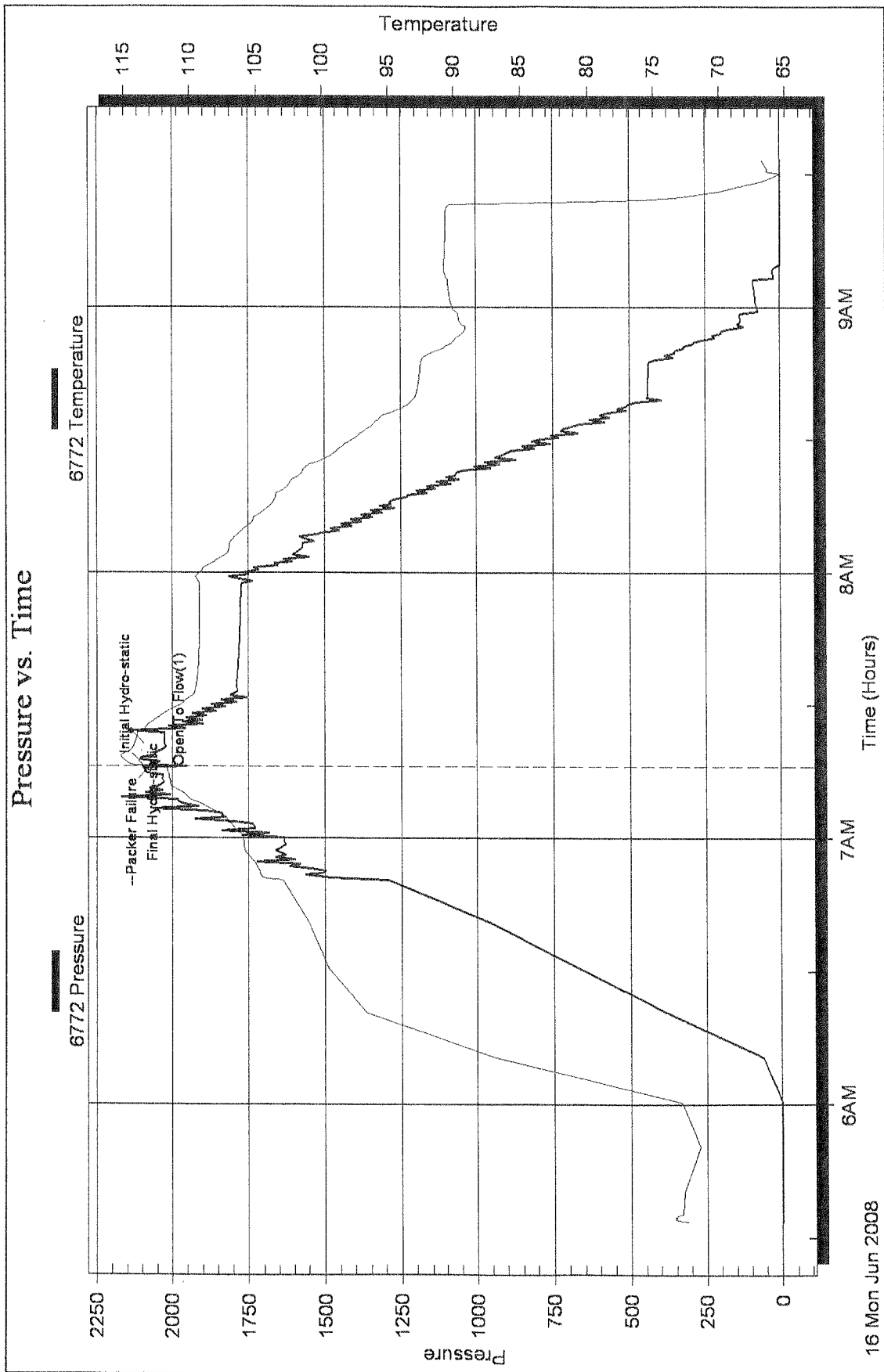
Serial #:

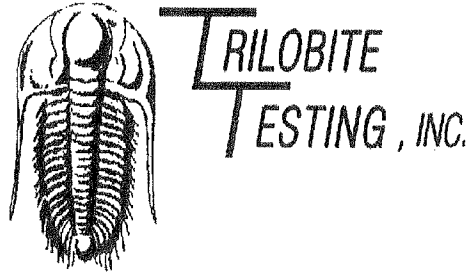
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Greatbend KS 67530

ATTN: Jacob Porter

6 19S 29W Lane KS

Calvin # 1

Start Date: 2008.06.16 @ 17:00:19

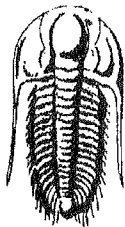
End Date: 2008.06.16 @ 23:38:28

Job Ticket #: 31332 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Greatbend KS 67530

ATTN: Jacob Porter

Calvin # 1

6 19S 29W Lane KS

Job Ticket: 31332

DST#: 3

Test Start: 2008.06.16 @ 17:00:19

GENERAL INFORMATION:

Formation: **LKC- K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:02:59

Time Test Ended: 23:38:28

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4234.00 ft (KB) To 4268.00 ft (KB) (TVD)**

Total Depth: 4268.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2847.00 ft (KB)

2842.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Outside

Press@RunDepth: 150.17 psig @ 4235.00 ft (KB)

Start Date: 2008.06.16

End Date:

2008.06.16

Start Time: 17:00:19

End Time:

23:38:28

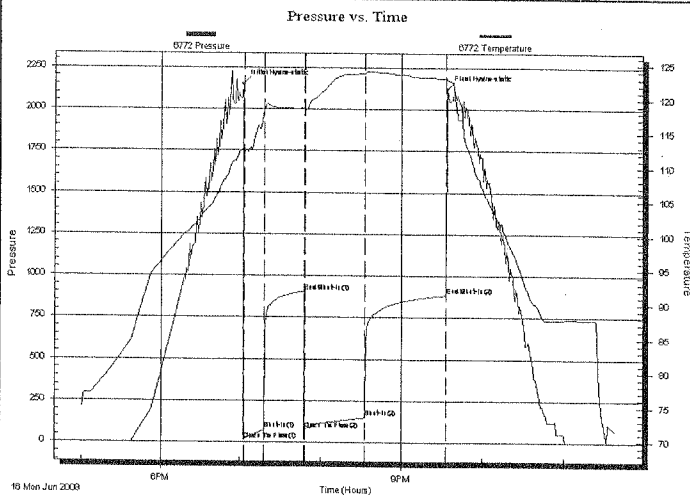
Capacity: 7000.00 psig

Last Calib.: 2008.06.16

Time On Btm: 2008.06.16 @ 19:02:29

Time Off Btm: 2008.06.16 @ 21:33:58

TEST COMMENT: IF 1/4 blow built to 4 1/2 in 15 min.
IS No return
FF Surface blow BOB in 43 min.
FS No return



PRESSURE SUMMARY

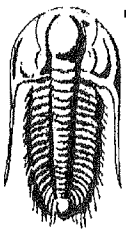
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.30	112.75	Initial Hydro-static
1	16.68	111.53	Open To Flow (1)
16	75.23	118.29	Shut-In (1)
46	905.22	118.65	End Shut-In (1)
46	78.97	118.43	Open To Flow (2)
91	150.17	123.78	Shut-In (2)
151	883.98	123.01	End Shut-In (2)
152	2119.42	123.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	MCW 90%W 10%M	0.91
124.00	MW 50%W 50%M	1.46

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

ATTN: Jacob Porter

Job Ticket: 31332

DST#: 3

Test Start: 2008.06.16 @ 17:00:19

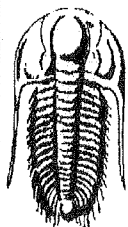
Tool Information

Drill Pipe:	Length: 4019.00 ft	Diameter: 3.80 inches	Volume: 56.38 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	57.44 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4234.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	61.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4208.00	
Shut In Tool	5.00			4213.00	
Hydraulic tool	5.00			4218.00	
Jars	5.00			4223.00	
Safety Joint	2.00			4225.00	
Packer	5.00			4230.00	27.00 Bottom Of Top Packer
Packer	4.00			4234.00	
Stubb	1.00			4235.00	
Recorder	0.00	6769	Inside	4235.00	
Recorder	0.00	6772	Outside	4235.00	
Perforations	28.00			4263.00	
Bullnose	5.00			4268.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31332

DST#: 3

ATTN: Jacob Porter

Test Start: 2008.06.16 @ 17:00:19

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: 39000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	MCW 90%W 10%M	0.910
124.00	MMW 50%W 50%M	1.457

Total Length: 309.00 ft Total Volume: 2.367 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

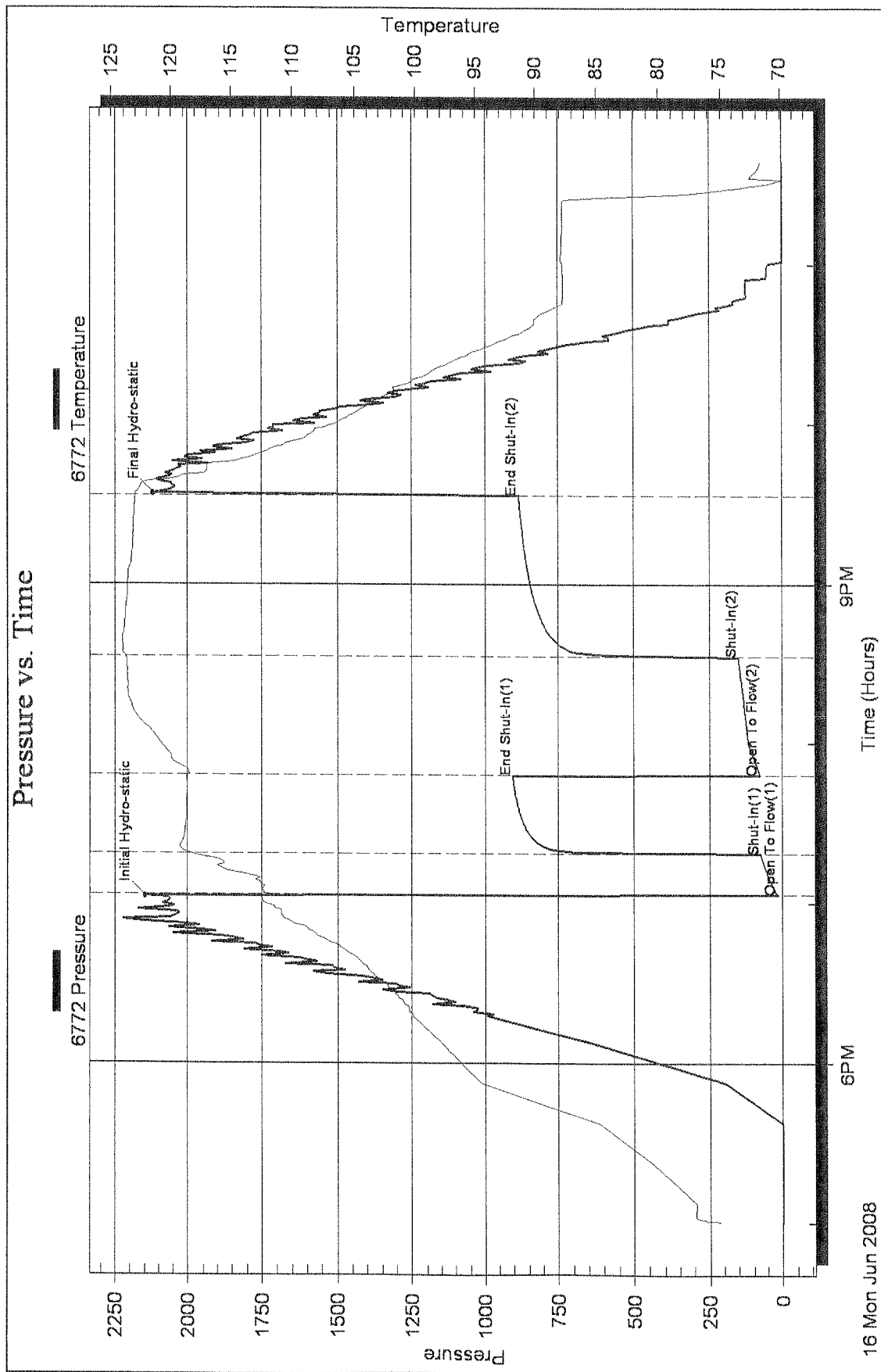
Serial #:

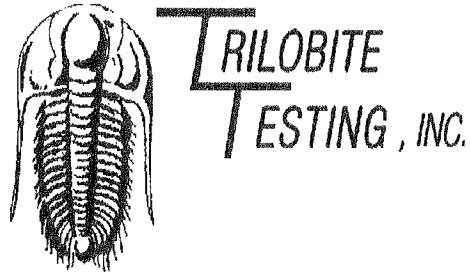
Laboratory Name:

Laboratory Location:

Recovery Comments: .21@69=39000

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Greatbend KS 67530

ATTN: Jacob Porter

6 19S 29W Lane KS

Calvin # 1

Start Date: 2008.06.17 @ 07:35:28

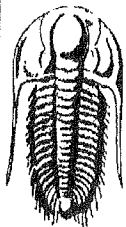
End Date: 2008.06.17 @ 13:46:07

Job Ticket #: 31333 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Greatbend KS 67530

ATTN: Jacob Porter

Calvin # 1

6 19S 29W Lane KS

Job Ticket: 31333

DST#: 4

Test Start: 2008.06.17 @ 07:35:28

GENERAL INFORMATION:

Formation: **LKC- L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:20:08

Time Test Ended: 13:46:07

Interval: **4271.00 ft (KB) To 4310.00 ft (KB) (TVD)**

Total Depth: 4310.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Reference Elevations: 2847.00 ft (KB)

2842.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Outside

Press@RunDepth: 209.08 psig @ 4272.00 ft (KB)

Start Date: 2008.06.17

End Date:

2008.06.17

Start Time: 07:35:28

End Time:

13:46:07

Capacity: 7000.00 psig

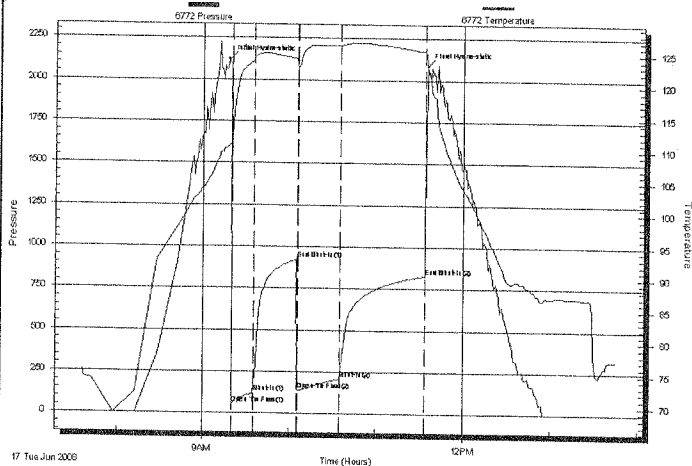
Last Calib.: 2008.06.17

Time On Btm: 2008.06.17 @ 09:17:53

Time Off Btm: 2008.06.17 @ 11:34:53

TEST COMMENT: IF 1/4 blow BOB in 5 min.
IS 1/4 blow BOB in 21 min.
FF BOB in 5 min.
FS 1/4 blow BOB in 14 min.

Pressure vs. Time



PRESSURE SUMMARY

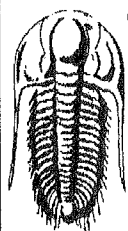
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.17	110.76	Initial Hydro-static
3	54.41	112.27	Open To Flow (1)
17	121.10	123.97	Shut-In(1)
47	923.40	124.32	End Shut-In(1)
48	139.32	123.04	Open To Flow (2)
78	209.08	126.39	Shut-In(2)
136	827.03	125.53	End Shut-In(2)
137	2083.04	122.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	MCOG 30%G 50%O 20%M	2.38
226.00	GO 20%G 80%O	3.17

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

PO Box 47
Greatbend KS 67530

ATTN: Jacob Porter

Calvin # 1

6 19S 29W Lane KS

Job Ticket: 31333

DST#: 4

Test Start: 2008.06.17 @ 07:35:28

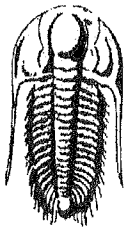
Tool Information

Drill Pipe:	Length: 4049.00 ft	Diameter: 3.80 inches	Volume: 56.80 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	57.86 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4271.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	66.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4245.00	
Shut In Tool	5.00			4250.00	
Hydraulic tool	5.00			4255.00	
Jars	5.00			4260.00	
Safety Joint	2.00			4262.00	
Packer	5.00			4267.00	27.00 Bottom Of Top Packer
Packer	4.00			4271.00	
Stubb	1.00			4272.00	
Recorder	0.00	6769	Inside	4272.00	
Recorder	0.00	6772	Outside	4272.00	
Perforations	33.00			4305.00	
Bullnose	5.00			4310.00	39.00 Bottom Packers & Anchor

Total Tool Length: 66.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31333

DST#: 4

ATTN: Jacob Porter

Test Start: 2008.06.17 @ 07:35:28

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 8.36 in³

Resistivity: 0.00 ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

35 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	MCGO 30%G 50%O 20%M	2.381
226.00	GO 20%G 80%O	3.170

Total Length: 536.00 ft

Total Volume: 5.551 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

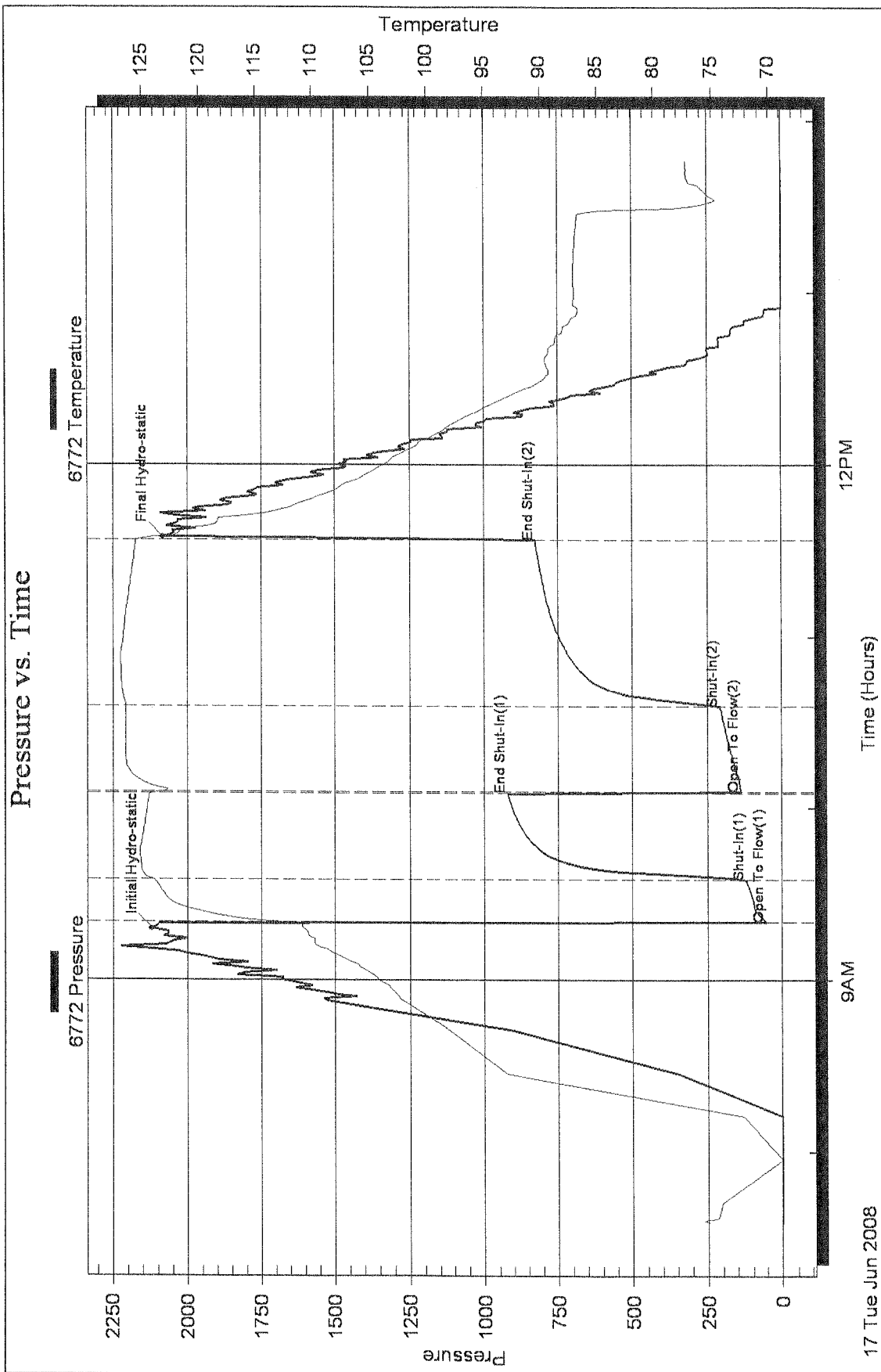
Serial #:

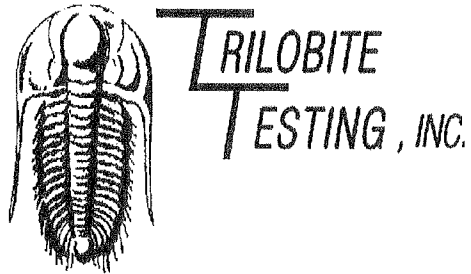
Laboratory Name:

Laboratory Location:

Recovery Comments: 868 GIP

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Greatbend KS 67530

ATTN: Jacob Porter

6 19S 29W Lane KS

Calvin # 1

Start Date: 2008.06.17 @ 23:31:28

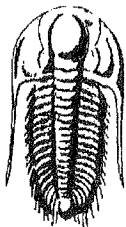
End Date: 2008.06.18 @ 06:27:22

Job Ticket #: 31334 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc
PO Box 47
Greatbend KS 67530
ATTN: Jacob Porter

Calvin # 1
6 19S 29W Lane KS
Job Ticket: 31334 **DST#: 5**
Test Start: 2008.06.17 @ 23:31:28

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:19:53
Time Test Ended: 06:27:22

Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 35

Interval: **4313.00 ft (KB) To 4393.00 ft (KB) (TVD)**
Total Depth: 4393.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

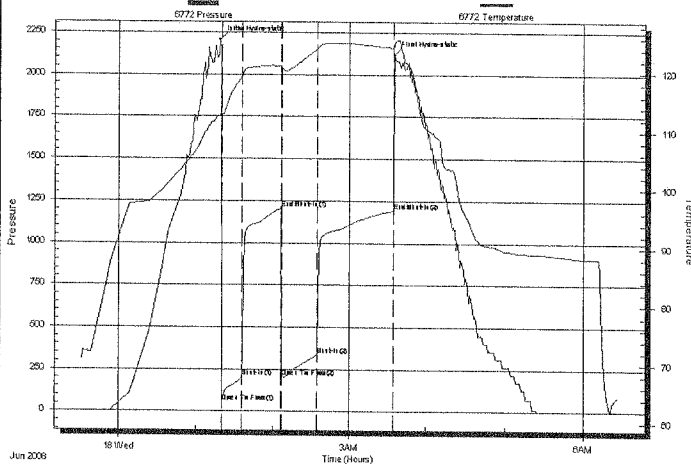
Reference Elevations: 2847.00 ft (KB)
2842.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6772 Outside
Press@RunDepth: 334.45 psig @ 4314.00 ft (KB)
Start Date: 2008.06.17 End Date: 2008.06.18
Start Time: 23:31:28 End Time: 06:27:22

Capacity: 7000.00 psig
Last Calib.: 2008.06.18
Time On Btm: 2008.06.18 @ 01:18:08
Time Off Btm: 2008.06.18 @ 03:35:08

TEST COMMENT: IF BOB in 4 min.
IS 1/4 blow built to 7 in 30 min.
FF BOB in 5 min.
FS 1/4 blow BOB in 8 min.

Pressure vs. Time



PRESSURE SUMMARY

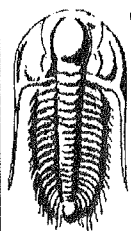
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2204.54	112.77	Initial Hydro-static
2	53.44	112.78	Open To Flow (1)
17	199.99	119.35	Shut-In (1)
48	1204.83	121.16	End Shut-In (1)
49	204.93	120.82	Open To Flow (2)
77	334.45	124.08	Shut-In (2)
136	1190.57	124.39	End Shut-In (2)
137	2116.71	124.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MCGO 10%G 70%O 20%M	0.91
372.00	MCGO 30%G 50%O 20%M	4.94
248.00	MCGO 50%G 40%O 10%M	3.48
82.00	OCM 10%O 90%M	1.15

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31334

DST#: 5

ATTN: Jacob Porter

Test Start: 2008.06.17 @ 23:31:28

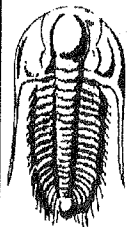
Tool Information

Drill Pipe:	Length: 4080.00 ft	Diameter: 3.80 inches	Volume: 57.23 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	58.29 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4313.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	107.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4287.00	
Shut In Tool	5.00			4292.00	
Hydraulic tool	5.00			4297.00	
Jars	5.00			4302.00	
Safety Joint	2.00			4304.00	
Packer	5.00			4309.00	27.00 Bottom Of Top Packer
Packer	4.00			4313.00	
Stubb	1.00			4314.00	
Recorder	0.00	6769	Inside	4314.00	
Recorder	0.00	6772	Outside	4314.00	
Perforations	9.00			4323.00	
Change Over Sub	1.00			4324.00	
Drill Pipe	63.00			4387.00	
Change Over Sub	1.00			4388.00	
Bullnose	5.00			4393.00	80.00 Bottom Packers & Anchor

Total Tool Length: 107.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31334

DST#: 5

ATTN: Jacob Porter

Test Start: 2008.06.17 @ 23:31:28

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 7.18 in³

Resistivity: 0.00 ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MCGO 10%G 70%O 20%M	0.915
372.00	MCGO 30%G 50%O 20%M	4.945
248.00	MCGO 50%G 40%O 10%M	3.479
82.00	OCM 10%O 90%M	1.150

Total Length: 888.00 ft

Total Volume: 10.489 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

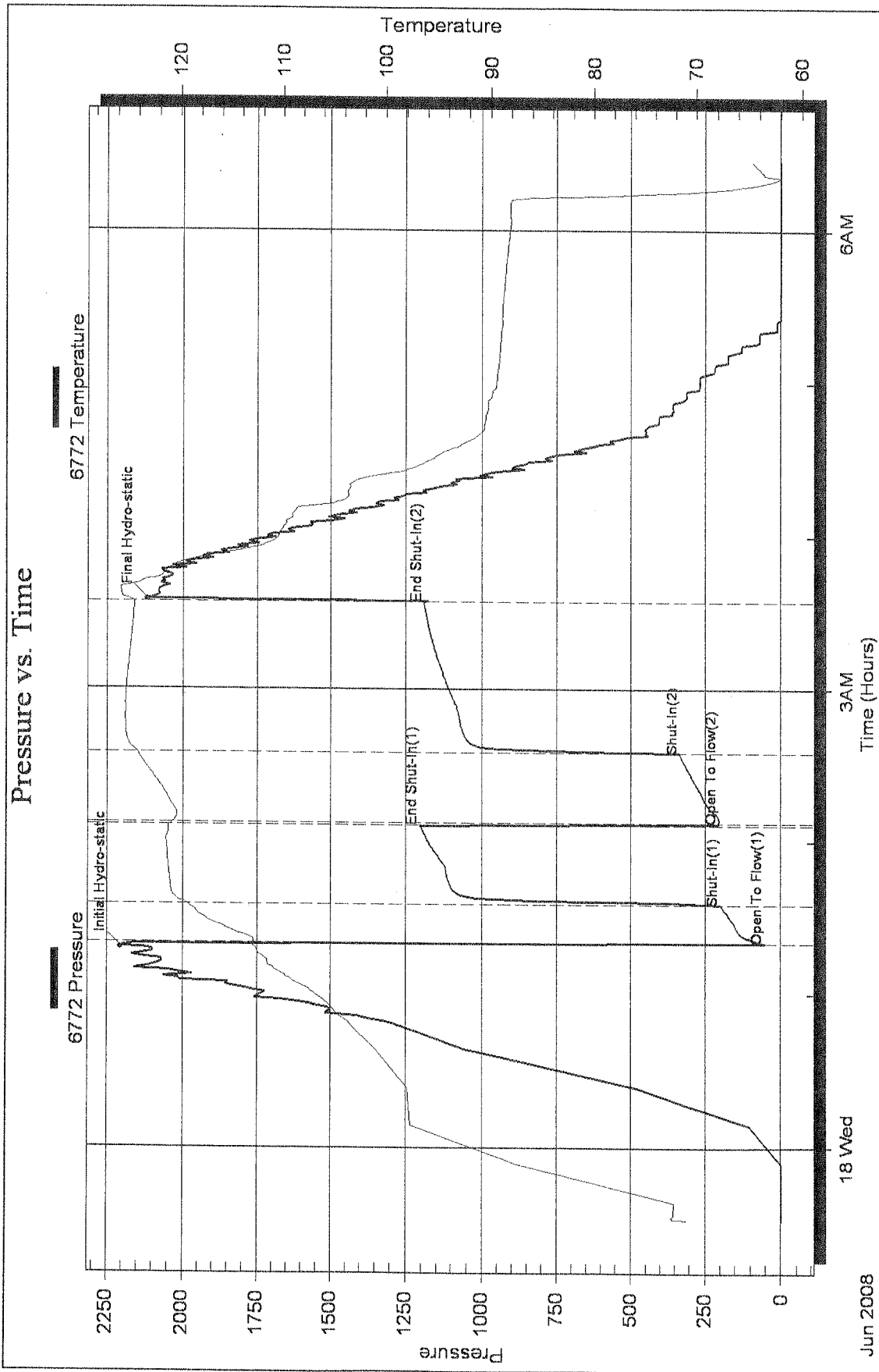
Recovery Comments:

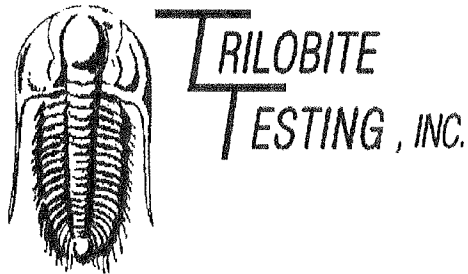
Serial #: 6772

Outside Carmen Schmitt Inc

6 19S 29W Lane KS

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Greatbend KS 67530

ATTN: Jacob Porter

6 19S 29W Lane KS

Calvin # 1

Start Date: 2008.06.19 @ 07:31:15

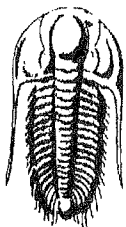
End Date: 2008.06.19 @ 13:58:39

Job Ticket #: 31335 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Greatbend KS 67530

ATTN: Jacob Porter

Calvin # 1

6 19S 29W Lane KS

Job Ticket: 31335

DST#: 6

Test Start: 2008.06.19 @ 07:31:15

GENERAL INFORMATION:

Formation: **Pawnee/ Ft. Scott/ C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:21:10

Time Test Ended: 13:58:39

Interval: **4422.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Total Depth: 4530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Reference Elevations: 2847.00 ft (KB)

2842.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772 Outside

Press@RunDepth: 275.68 psig @ 4423.00 ft (KB)

Start Date: 2008.06.19

End Date:

2008.06.19

Start Time: 07:31:15

End Time:

13:58:39

Capacity: 7000.00 psig

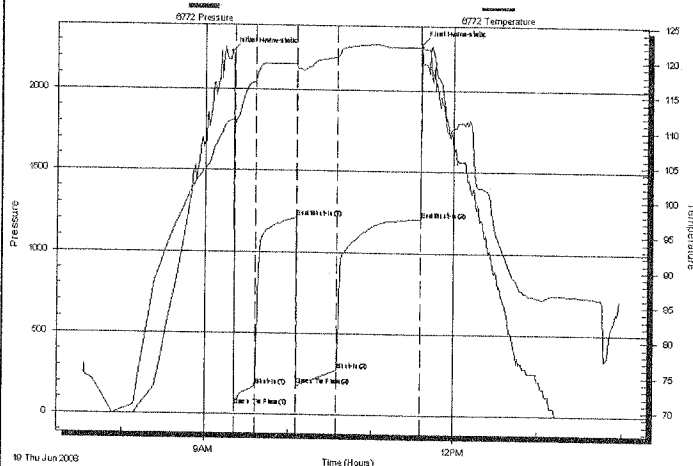
Last Calib.: 2008.06.19

Time On Btm: 2008.06.19 @ 09:19:25

Time Off Btm: 2008.06.19 @ 11:36:25

TEST COMMENT: IF 1/4 blow BOB in 4 min.
IS Surface blow built to 3 in 30 min.
FF BOB in 3 min.
FS 1/4 blow BOB in 5 min.

Pressure vs. Time



PRESSURE SUMMARY

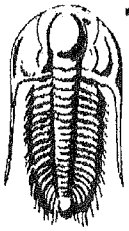
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.97	111.41	Initial Hydro-static
2	48.22	111.04	Open To Flow (1)
17	172.51	116.88	Shut-In(1)
46	1209.89	119.57	End Shut-In(1)
47	179.81	119.11	Open To Flow(2)
76	275.68	120.61	Shut-In(2)
137	1208.35	122.12	End Shut-In(2)
137	2285.84	122.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	MCGO 50%G 40%O 10%M	2.38
248.00	MCGO 40%G 40%O 20%M	3.48
124.00	OCM 20%O 80%M	1.74

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31335

DST#: 6

ATTN: Jacob Porter

Test Start: 2008.06.19 @ 07:31:15

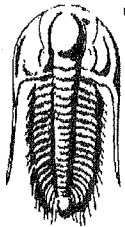
Tool Information

Drill Pipe:	Length: 4206.00 ft	Diameter: 3.80 inches	Volume: 59.00 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	60.06 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4422.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	108.00 ft				
Tool Length:	135.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4396.00	
Shut In Tool	5.00			4401.00	
Hydraulic tool	5.00			4406.00	
Jars	5.00			4411.00	
Safety Joint	2.00			4413.00	
Packer	5.00			4418.00	27.00 Bottom Of Top Packer
Packer	4.00			4422.00	
Stubb	1.00			4423.00	
Recorder	0.00	6769	Inside	4423.00	
Recorder	0.00	6772	Outside	4423.00	
Perforations	6.00			4429.00	
Change Over Sub	1.00			4430.00	
Drill Pipe	94.00			4524.00	
Change Over Sub	1.00			4525.00	
Bullnose	5.00			4530.00	108.00 Bottom Packers & Anchor

Total Tool Length: 135.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

Calvin # 1

PO Box 47
Greatbend KS 67530

6 19S 29W Lane KS

Job Ticket: 31335

DST#: 6

ATTN: Jacob Porter

Test Start: 2008.06.19 @ 07:31:15

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:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	MCGO 50%G 40%O 10%M	2.381
248.00	MCGO 40%G 40%O 20%M	3.479
124.00	OCM 20%O 80%M	1.739

Total Length: 682.00 ft

Total Volume: 7.599 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

