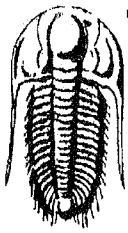


15-179-21226

16-9s-26w

IND


TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

A&A Production

Simon #1

 PO Box 100
 Hill City, KS 67642

16 9s26w Sheridan KS

ATTN: Mark Torr

Job Ticket: 36129

DST#: 1

Test Start: 2009.03.22 @ 09:43:38

Tool Information

Drill Pipe:	Length: 3893.00 ft	Diameter: 3.80 inches	Volume: 54.61 bbl	Tool Weight:	2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
		Total Volume:	54.61 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3885.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	49.00 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			3865.00	
Shut In Tool	5.00			3870.00	
Hydraulic tool	5.00			3875.00	
Packer	5.00			3880.00	21.00 Bottom Of Top Packer
Packer	5.00			3885.00	
Stubb	1.00			3886.00	
Perforations	4.00			3890.00	
Recorder	0.00	8360	Inside	3890.00	
Recorder	0.00	6755	Inside	3890.00	
Perforations	20.00			3910.00	
Bullnose	3.00			3913.00	28.00 Bottom Packers & Anchor
Total Tool Length:		49.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

A&A Production

Simon #1

PO Box 100
Hill City, KS 67642

16 9s26w Sheridan KS

Job Ticket: 36129

DST#: 1

ATTN: Mark Torr

Test Start: 2009.03.22 @ 09:43:38

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:

43000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Water	2.104
0.50	Oil	0.007

Total Length: 150.50 ft

Total Volume: 2.111 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

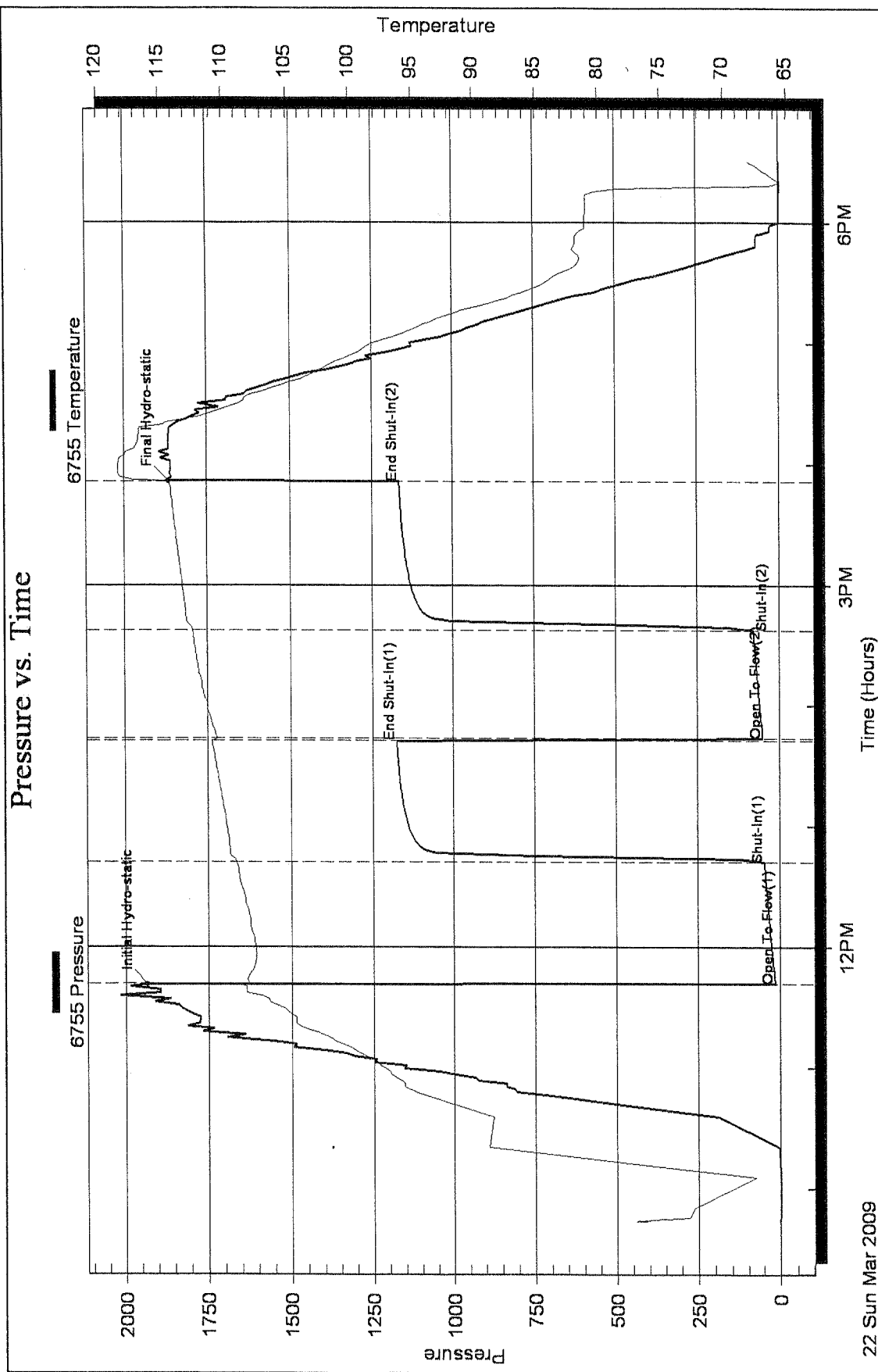
Serial #:

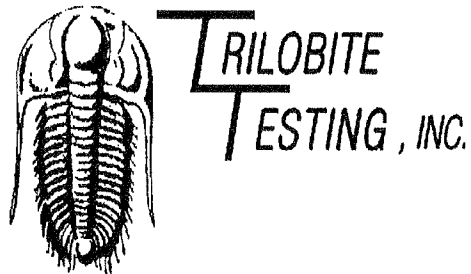
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .154 @ 68F = 43000 ppm chlorides

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **A&A Production**

PO Box 100
Hill City, KS 67642

ATTN: Mark Torr

16 9s26w Sheridan KS

Simon #1

Start Date: 2009.03.24 @ 02:00:26

End Date: 2009.03.24 @ 08:29:56

Job Ticket #: 36130 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

A&A Production

Simon #1

PO Box 100
Hill City, KS 67642

16 9s26w Sheridan KS

ATTN: Mark Torr

Job Ticket: 36130 DST#: 2

Test Start: 2009.03.24 @ 02:00:26

GENERAL INFORMATION:

Formation: "K-L"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:07:56

Time Test Ended: 08:29:56

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 4044.00 ft (KB) To 4135.00 ft (KB) (TVD)

Total Depth: 4135.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2684.00 ft (KB)

2679.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: 51.79 psig @ 4049.00 ft (KB)

Start Date: 2009.03.24

End Date: 2009.03.24

Start Time: 02:00:28

End Time: 08:29:56

Capacity: 7000.00 psig

Last Calib.: 2009.03.24

Time On Btm: 2009.03.24 @ 04:06:56

Time Off Btm: 2009.03.24 @ 06:10:56

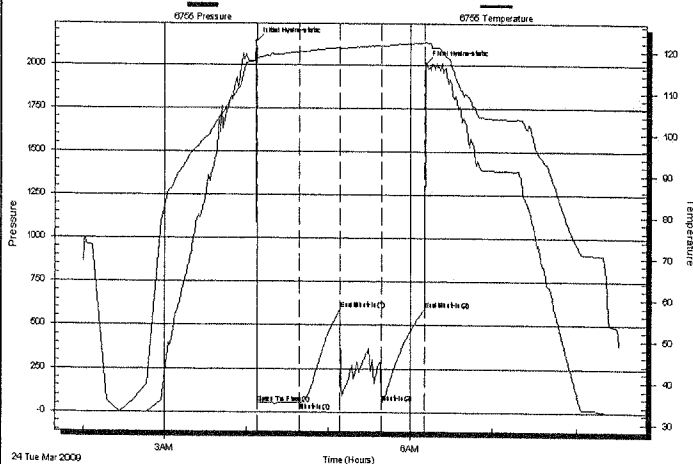
TEST COMMENT: IFP-Weak Intermittant Blow

ISI-Dead

FFP-Dead

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

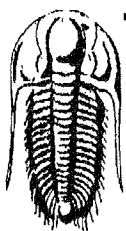
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.97	117.84	Initial Hydro-static
1	50.18	117.97	Open To Flow (1)
32	51.79	119.76	Shut-In (1)
61	589.95	120.79	End Shut-In (1)
92	52.73	121.13	Shut-In (2)
123	589.68	122.02	End Shut-In (2)
124	2008.56	122.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud	0.14

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

A&A Production

Simon #1

PO Box 100
Hill City, KS 67642

16 9s26w Sheridan KS

Job Ticket: 36130

DST#: 2

ATTN: Mark Torr

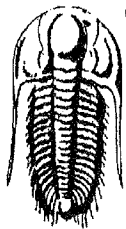
Test Start: 2009.03.24 @ 02:00:26

Tool Information

Drill Pipe:	Length: 4048.00 ft	Diameter: 3.80 inches	Volume: 56.78 bbl	Tool Weight:	2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	46000.00 lb
		Total Volume:	56.78 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	4044.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	91.00 ft				
Tool Length:	112.00 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			4024.00	
Shut In Tool	5.00			4029.00	
Hydraulic tool	5.00			4034.00	
Packer	5.00			4039.00	21.00 Bottom Of Top Packer
Packer	5.00			4044.00	
Stubb	1.00			4045.00	
Perforations	3.00			4048.00	
Recorder	0.00	8360	Inside	4048.00	
Change Over Sub	1.00			4049.00	
Recorder	0.00	6755	Inside	4049.00	
Blank Spacing	62.00			4111.00	
Change Over Sub	1.00			4112.00	
Perforations	20.00			4132.00	
Bullnose	3.00			4135.00	91.00 Bottom Packers & Anchor
Total Tool Length:		112.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

A&A Production

Simon #1

PO Box 100
Hill City, KS 67642

16 9s26w Sheridan KS

Job Ticket: 36130

DST#: 2

ATTN: Mark Torr

Test Start: 2009.03.24 @ 02:00:26

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling Mud	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

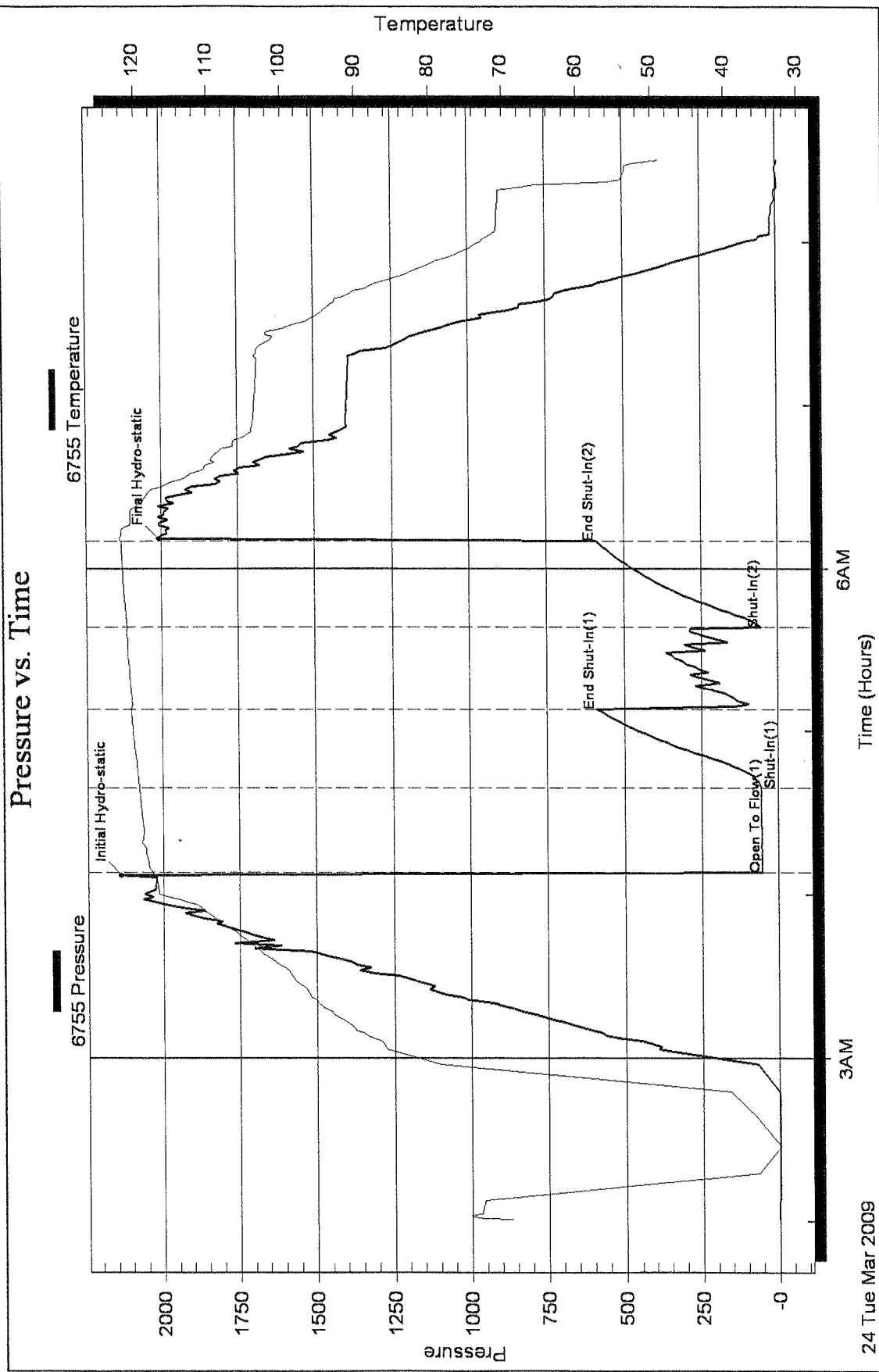
Serial #:

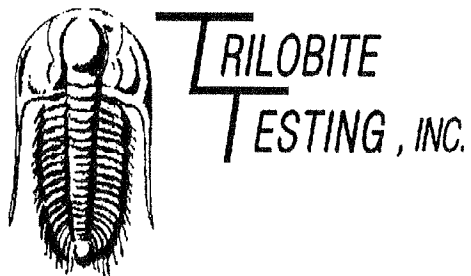
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **A&A Production**

PO Box 100
Hill City, KS 67642

ATTN: Mark Torr

16 9s26w Sheridan KS

Simon #1

Start Date: 2009.03.24 @ 09:25:56

End Date: 2009.03.24 @ 16:32:26

Job Ticket #: 36131 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

A&A Production

Simon #1

PO Box 100
Hill City, KS 67642

16 9s26w Sheridan KS

Job Ticket: 36131 DST#: 3

ATTN: Mark Torr

Test Start: 2009.03.24 @ 09:25:56

GENERAL INFORMATION:

Formation: "F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:54:56

Time Test Ended: 16:32:26

Test Type: Conventional Straddle

Tester: Jason McLemore

Unit No: 32

Interval: 3926.00 ft (KB) To 3957.00 ft (KB) (TVD)

Total Depth: 4134.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2684.00 ft (KB)

2679.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press@RunDepth: 105.33 psig @ 3927.00 ft (KB)

Start Date: 2009.03.24

End Date:

2009.03.24

Start Time: 09:25:58

End Time:

16:32:26

Capacity: 7000.00 psig

Last Calib.: 2009.03.24

Time On Btm: 2009.03.24 @ 11:54:26

Time Off Btm: 2009.03.24 @ 14:16:26

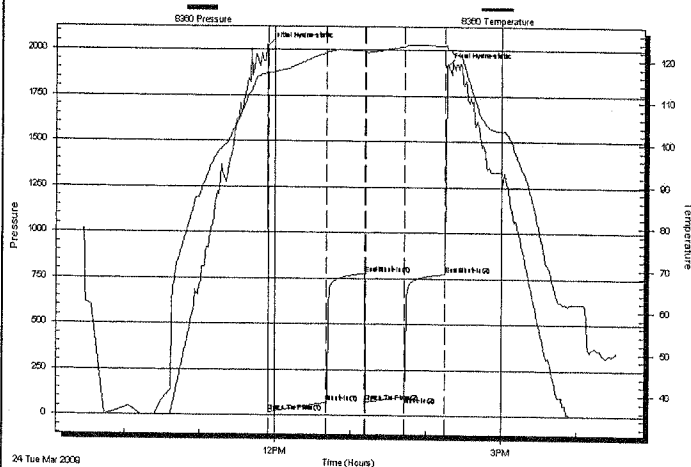
TEST COMMENT: IFP Fair blow, built to 9"

ISI Dead

FFP Fair blow, built to 5"

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

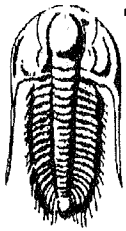
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2018.85	117.34	Initial Hydro-static
1	17.31	116.55	Open To Flow(1)
47	70.70	121.67	Shut-In(1)
77	777.83	122.21	End Shut-In(1)
78	73.94	121.95	Open To Flow(2)
108	105.33	123.24	Shut-In(2)
141	775.45	123.39	End Shut-In(2)
142	1911.03	123.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	Muddy Water-65%W-35%M	2.60

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

A&A Production

Simon #1

PO Box 100
Hill City, KS 67642

16 9s26w Sheridan KS

Job Ticket: 36131

DST#: 3

ATTN: Mark Torr

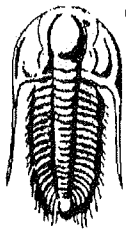
Test Start: 2009.03.24 @ 09:25:56

Tool Information

Drill Pipe:	Length:	3921.00 ft	Diameter:	3.80 inches	Volume:	55.00 bbl	Tool Weight:	2000.00 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:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	50000.00 lb
					Total Volume:	55.00 bbl	Tool Chased	0.00 ft
							String Weight: Initial	46000.00 lb
							Final	46000.00 lb
Drill Pipe Above KB: 16.00 ft								
Depth to Top Packer: 3926.00 ft								
Depth to Bottom Packer: 3957.00 ft								
Interval between Packers: 31.00 ft								
Tool Length: 229.00 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			3906.00	
Shut In Tool	5.00			3911.00	
Hydraulic tool	5.00			3916.00	
Packer	5.00			3921.00	21.00 Bottom Of Top Packer
Packer	5.00			3926.00	
Stubb	1.00			3927.00	
Recorder	0.00	8360	Inside	3927.00	
Perforations	16.00			3943.00	
Perforations	10.00			3953.00	
Blank Off Sub	1.00			3954.00	
Blank Spacing	3.00			3957.00	31.00 Tool Interval
Packer	1.00			3958.00	
Stubb	1.00			3959.00	
Perforations	10.00			3969.00	
Recorder	0.00	6755	Below	3969.00	
Change Over Sub	1.00			3970.00	
Blank Spacing	156.00			4126.00	
Change Over Sub	1.00			4127.00	
Perforations	4.00			4131.00	
Recorder	0.00	13252	Below	4131.00	
Bullnose	3.00			4134.00	177.00 Bottom Packers & Anchor

Total Tool Length: 229.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

A&A Production

Simon #1

PO Box 100
Hill City, KS 67642

16 9s26w Sheridan KS

Job Ticket: 36131

DST#: 3

ATTN: Mark Torr

Test Start: 2009.03.24 @ 09:25:56

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:

58000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	Muddy Water-65%W-35%M	2.595

Total Length: 185.00 ft

Total Volume: 2.595 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

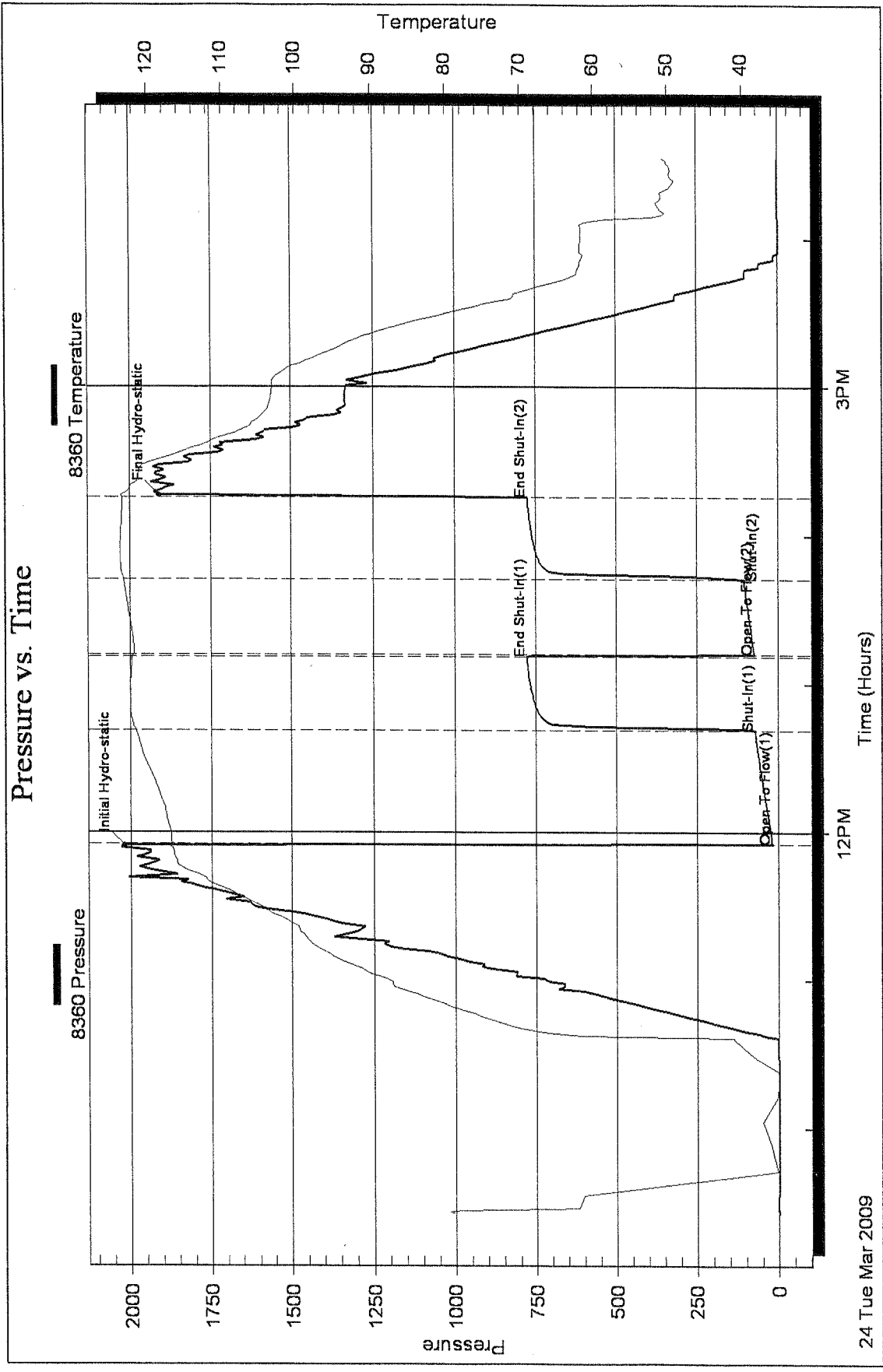
Serial #:

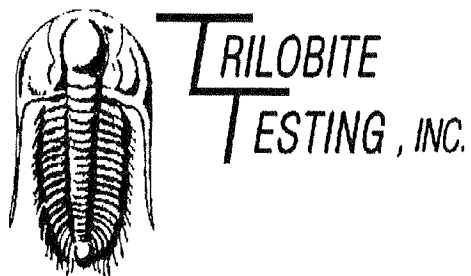
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .194 @ 50F Chlorides = 58000 ppm

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **A&A Production**

PO Box 100
Hill City, KS 67642

ATTN: Mark Torr

16 9s26w Sheridan KS

Simon #1

Start Date: 2009.03.24 @ 22:19:26

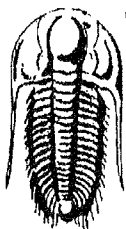
End Date: 2009.03.25 @ 06:14:56

Job Ticket #: 36132 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

A&A Production

Simon #1

PO Box 100
Hill City, KS 67642

16 9s26w Sheridan KS

Job Ticket: 36132 DST#: 4

ATTN: Mark Torr

Test Start: 2009.03.24 @ 22:19:26

GENERAL INFORMATION:

Formation: "H-I-J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:27:56

Time Test Ended: 06:14:56

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3974.00 ft (KB) To 4134.00 ft (KB) (TVD)

Total Depth: 4134.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2684.00 ft (KB)

2679.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: 103.72 psig @ 3981.00 ft (KB)

Start Date: 2009.03.24

End Date: 2009.03.25

Start Time: 22:19:28

End Time: 06:14:56

Capacity: 7000.00 psig

Last Calib.: 2009.03.25

Time On Btm: 2009.03.25 @ 00:26:56

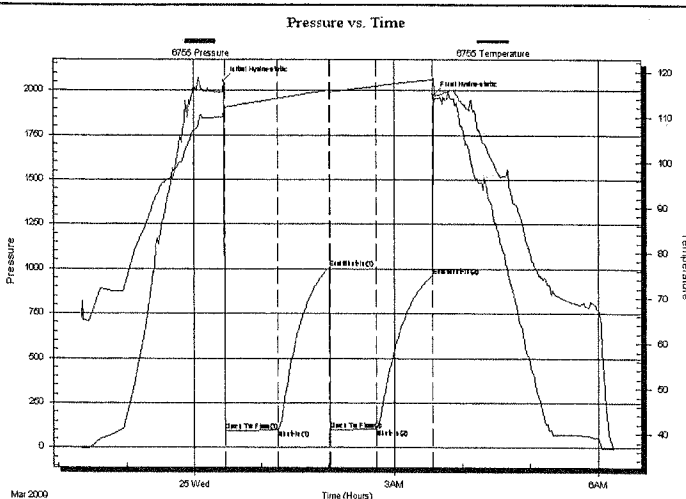
Time Off Btm: 2009.03.25 @ 03:34:56

TEST COMMENT: IFP-Tool Slid 6' on Open, Weak Blow, Built to 3/4"

ISI-Dead

FFP-Dead

FSI-Dead



PRESSURE SUMMARY

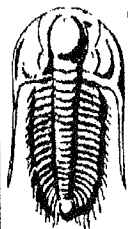
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2053.99	111.63	Initial Hydro-static
1	91.79	112.26	Open To Flow (1)
48	98.66	114.09	Shut-In (1)
94	1004.39	115.89	End Shut-In (1)
95	101.58	115.54	Open To Flow (2)
137	103.72	116.80	Shut-In (2)
188	963.93	118.27	End Shut-In (2)
188	1975.84	118.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Drilling Mud	0.70

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

A&A Production

Simon #1

PO Box 100
Hill City, KS 67642

16 9s26w Sheridan KS

Job Ticket: 36132

DST#: 4

ATTN: Mark Torr

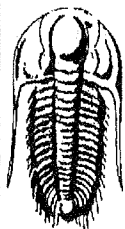
Test Start: 2009.03.24 @ 22:19:26

Tool Information

Drill Pipe:	Length: 3957.00 ft	Diameter: 3.80 inches	Volume: 55.51 bbl	Tool Weight:	2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	55.51 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3974.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	160.00 ft				
Tool Length:	181.00 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			3954.00	
Shut In Tool	5.00			3959.00	
Hydraulic tool	5.00			3964.00	
Packer	5.00			3969.00	21.00 Bottom Of Top Packer
Packer	5.00			3974.00	
Stubb	1.00			3975.00	
Perforations	5.00			3980.00	
Recorder	0.00	8360	Inside	3980.00	
Change Over Sub	1.00			3981.00	
Recorder	0.00	6755	Inside	3981.00	
Blank Spacing	125.00			4106.00	
Change Over Sub	1.00			4107.00	
Perforations	24.00			4131.00	
Bullnose	3.00			4134.00	160.00 Bottom Packers & Anchor

Total Tool Length: 181.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

A&A Production

Simon #1

PO Box 100
Hill City, KS 67642

16 9s26w Sheridan KS

Job Ticket: 36132

DST#: 4

ATTN: Mark Torr

Test Start: 2009.03.24 @ 22:19:26

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Drilling Mud	0.701

Total Length: 50.00 ft

Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

