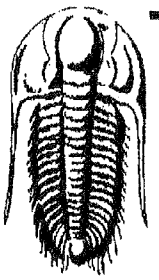
15-151-22313 13-29s-15w IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Company, LLC**

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

13-29s-15w Pratt Ks

Hatfield # 1

Start Date: 2008.11.05 @ 21:47:35
End Date: 2008.11.06 @ 06:53:05
Job Ticket #: 32932 DST #: 1

KCC
JAN 26 2009
CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION
JAN 27 2009
CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32932 **DST#: 1**

Test Start: 2008.11.05 @ 21:47:35

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:04:05
Time Test Ended: 06:53:05

Test Type: Conventional Bottom Hole
Tester: Jerry Adams
Unit No: 45

Interval: 3889.00 ft (KB) To 3946.00 ft (KB) (TVD)
Total Depth: 3946.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

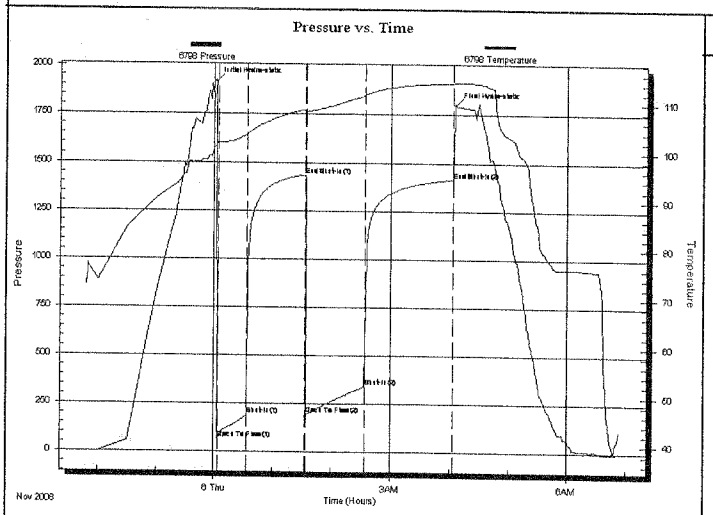
Reference Elevations: 2032.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 340.56 psig @ 3901.00 ft (KB)
Start Date: 2008.11.05 End Date: 2008.11.06
Start Time: 21:47:36 End Time: 06:53:05

Capacity: 7000.00 psig
Last Calib.: 2008.11.06
Time On Btm: 2008.11.06 @ 00:02:05
Time Off Btm: 2008.11.06 @ 04:05:35

TEST COMMENT: IF:Fair blow . B.O.B. in 12 mins.
ISI:Very w eak surface blow . Dead in 23 mins.
FF:Weak to fair blow . B.O.B. in 18 mins.
FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1917.25	101.44	Initial Hydro-static
2	67.55	101.91	Open To Flow (1)
32	189.09	103.57	Shut-In(1)
91	1435.09	108.73	End Shut-In(1)
92	195.04	108.44	Open To Flow (2)
151	340.56	111.56	Shut-In(2)
242	1415.03	114.25	End Shut-In(2)
244	1798.90	114.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
175.00	SWCM 10%w 90%m	0.86
500.00	SMCW 85%w 15%m	6.97
0.00	RW= .074 @ 44 deg.	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32932 **DST#: 1**

Test Start: 2008.11.05 @ 21:47:35

Tool Information

Drill Pipe:	Length:	3703.00 ft	Diameter:	3.80 inches	Volume:	51.94 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	
					Total Volume:	52.83 bbl	

Drill Pipe Above KB:	14.00 ft
Depth to Top Packer:	3889.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	57.00 ft
Tool Length:	77.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	60000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	54000.00 lb
Final	57000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3874.00		
Hydraulic tool	5.00			3879.00		
Packer	5.00			3884.00	20.00	Bottom Of Top Packer
Packer	5.00			3889.00		
Stubb	1.00			3890.00		
Perforations	10.00			3900.00		
Change Over Sub	1.00			3901.00		
Recorder	0.00	6798	Inside	3901.00		
Recorder	0.00	8367	Inside	3901.00		
Blank Spacing	31.00			3932.00		
Change Over Sub	1.00			3933.00		
Perforations	10.00			3943.00		
Bullnose	3.00			3946.00	57.00	Bottom Packers & Anchor
Total Tool Length:	**77.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32932 **DST#: 1**

Test Start: 2008.11.05 @ 21:47:35

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:	215000 ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.57 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.20 inches				

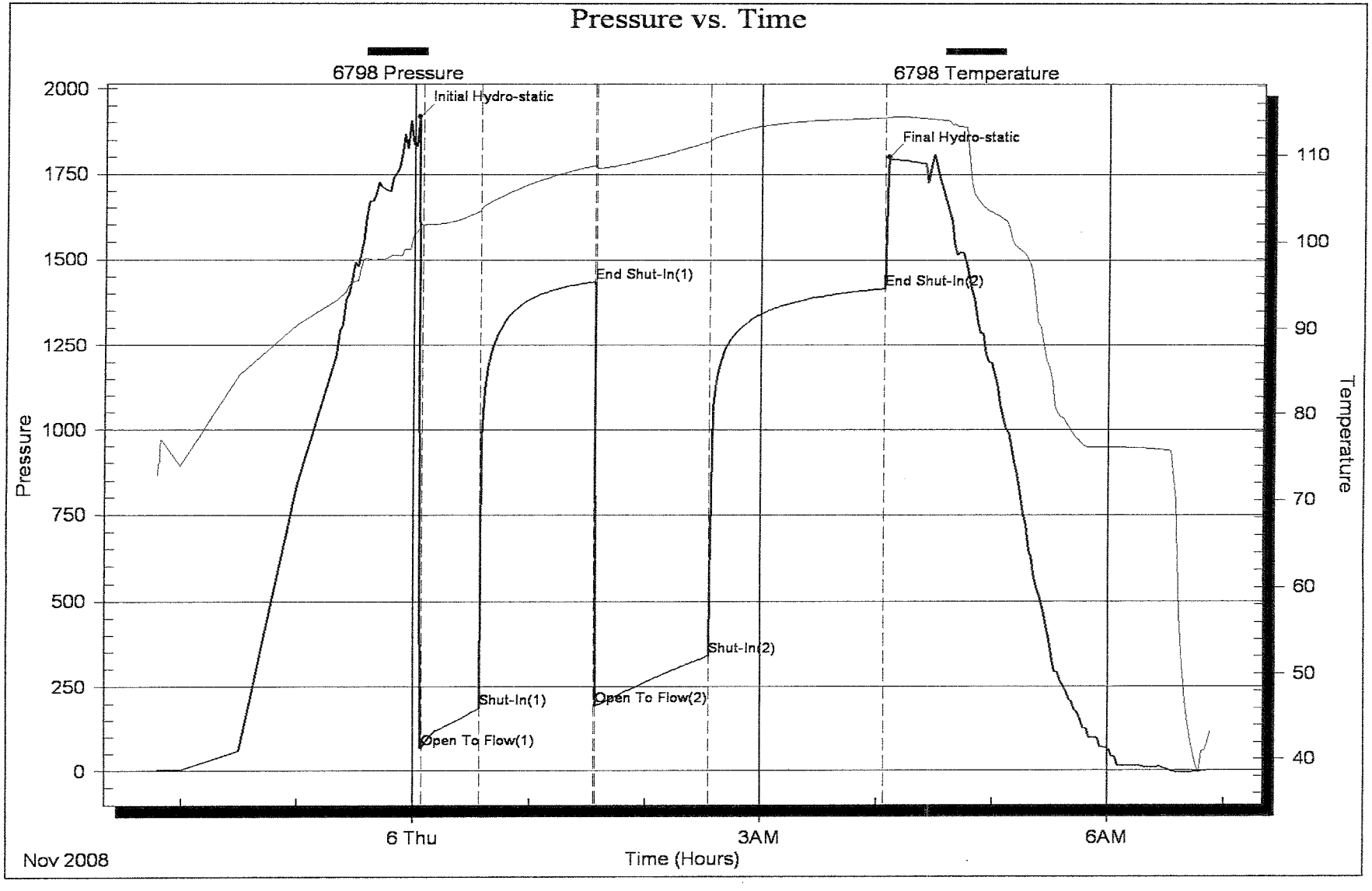
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
175.00	SWCM 10%w 90%m	0.861
500.00	SMCW 85%w 15%m	6.968
0.00	RW= .074 @ 44 deg.	0.000

Total Length: 675.00 ft Total Volume: 7.829 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6798 Pressure
6798 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
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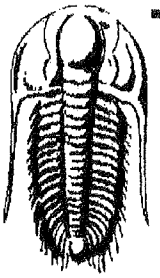


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Company, LLC**

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

13-29s-15w Pratt Ks

Hatfield # 1

Start Date: 2008.11.07 @ 12:12:23
End Date: 2008.11.07 @ 22:10:53
Job Ticket #: 32933 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Lotus Operating Company, LLC
Hatfield # 1
13-29s-15w Pratt Ks
DST # 2
Lans. 'I', Dennis, S
2008.11.07

DRILL STEM TEST REPORT

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32933 **DST#: 2**

Test Start: 2008.11.07 @ 12:12:23

GENERAL INFORMATION:

Formation: **Lans. 'I', Dennis, S**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:30:53
Time Test Ended: 22:10:53

Test Type: Conventional Bottom Hole
Tester: Jerry Adams
Unit No: 45

Interval: 4266.00 ft (KB) To 4392.00 ft (KB) (TVD)
Total Depth: 4392.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

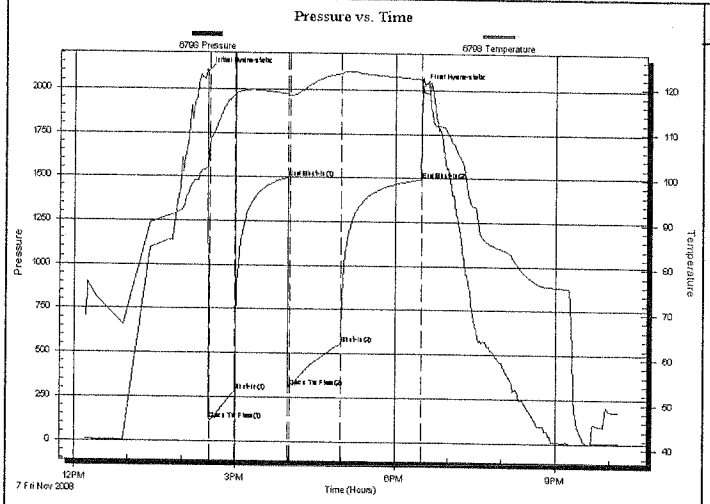
Reference Elevations: 2032.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 557.72 psig @ 4278.00 ft (KB)
Start Date: 2008.11.07 End Date: 2008.11.07
Start Time: 12:12:24 End Time: 22:10:53

Capacity: 7000.00 psig
Last Calib.: 2008.11.07
Time On Btm: 2008.11.07 @ 14:28:23
Time Off Btm: 2008.11.07 @ 18:30:23

TEST COMMENT: IF:Strong blow. BOB in 1 min.
ISI:Strong blow. BOB in 1 min. after 5 min. bled off.
FF:Strong blow. BOB in 1 1/2 mins. GTS in 5 mins. T.S.T.M.
FSI:Strong blow. BOB in 2 1/2 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2098.39	102.23	Initial Hydro-static
3	118.00	107.33	Open To Flow (1)
31	281.57	118.23	Shut-In(1)
91	1498.25	118.73	End Shut-In(1)
93	310.22	118.46	Open To Flow (2)
151	557.72	123.22	Shut-In(2)
241	1492.35	122.09	End Shut-In(2)
242	2015.60	121.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
770.00	SMCW 90%w 10%m	9.16
214.00	SG&WCO 8%g 10%w 82%o	3.00
124.00	SM&WCGsy Oil 40%g 40%o 10%w	101.74
62.00	SG&OCM 10%g 5%o 85%m	0.87
55.00	SGCM 10%g 90%m	0.77
0.00	3032' GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32933 **DST#: 2**

Test Start: 2008.11.07 @ 12:12:23

Tool Information

Drill Pipe:	Length:	4077.00 ft	Diameter:	3.80 inches	Volume:	57.19 bbl	Tool Weight:	2300.00 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:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	58.08 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		11.00 ft					String Weight: Initial	58000.00 lb
Depth to Top Packer:		4266.00 ft					Final	62000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		126.00 ft						
Tool Length:		146.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4251.00		
Hydraulic tool	5.00			4256.00		
Packer	5.00			4261.00	20.00	Bottom Of Top Packer
Packer	5.00			4266.00		
Stubb	1.00			4267.00		
Perforations	10.00			4277.00		
Change Over Sub	1.00			4278.00		
Recorder	0.00	6798	Inside	4278.00		
Recorder	0.00	8367	Inside	4278.00		
Blank Spacing	94.00			4372.00		
Change Over Sub	1.00			4373.00		
Perforations	16.00			4389.00		
Bullnose	3.00			4392.00	126.00	Bottom Packers & Anchor
Total Tool Length:	**146.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32933 **DST#: 2**

Test Start: 2008.11.07 @ 12:12:23

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:	250000 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.77 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9000.00 ppm				
Filter Cake:	0.20 inches				

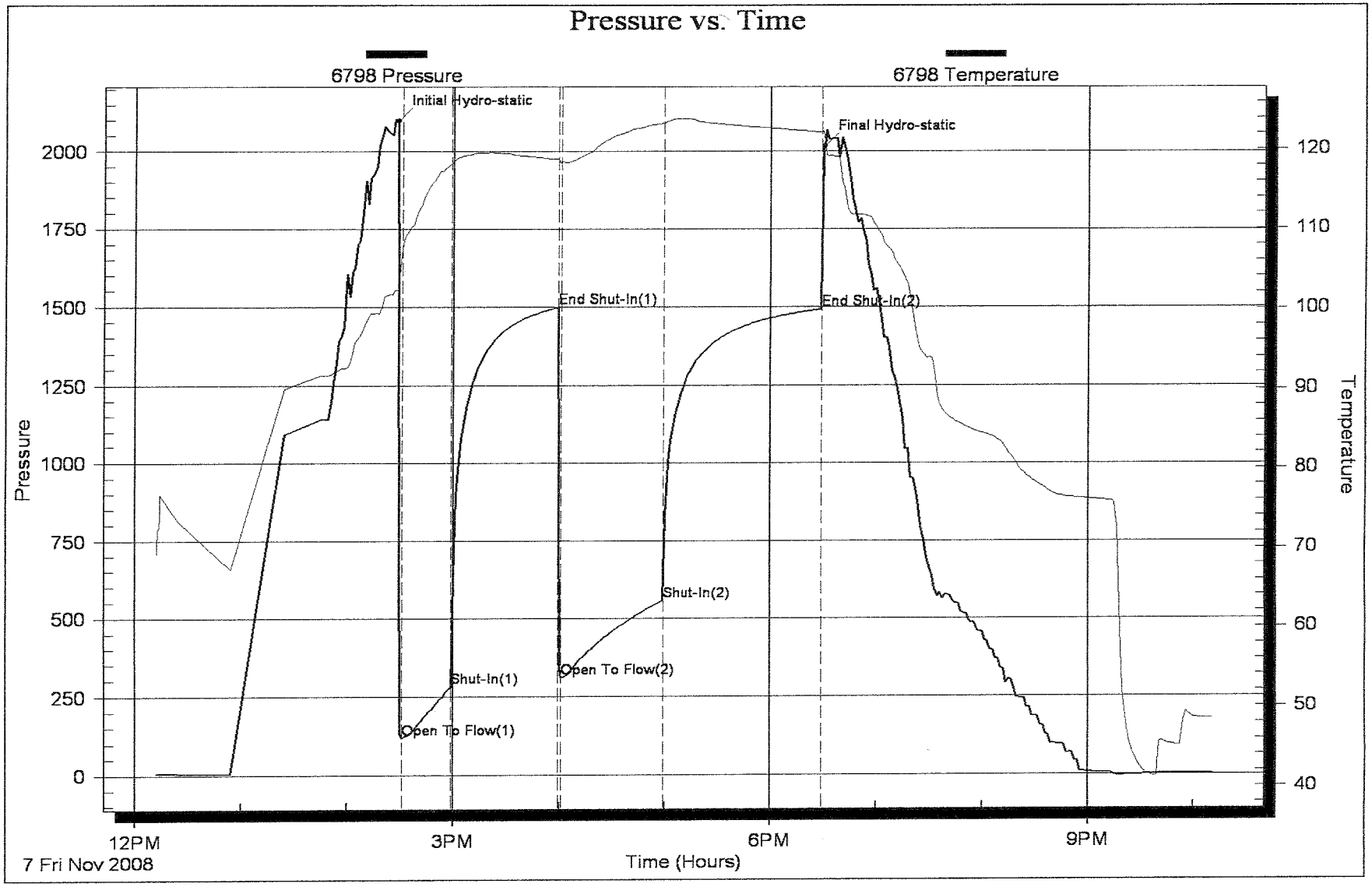
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
770.00	SMCW 90%w 10%m	9.161
214.00	SG&WCO 8%g 10%w 82%o	3.002
124.00	SM&WCGsy Oil 40%g 40%o 10%w 10%m	1.739
62.00	SG&OCM 10%g 5%o 85%m	0.870
55.00	SGCM 10%g 90%m	0.772
0.00	3032' GIP	0.000
0.00	RW = .065 @ 49.5 deg.	0.000

Total Length: 1225.00 ft Total Volume: 15.544 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6798 Pressure
6798 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
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Pressure
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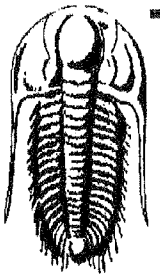


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Company, LLC**

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

13-29s-15w Pratt Ks

Hatfield # 1

Start Date: 2008.11.08 @ 09:33:18
End Date: 2008.11.08 @ 17:40:18
Job Ticket #: 32934 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

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32934 **DST#: 3**

Test Start: 2008.11.08 @ 09:33:18

GENERAL INFORMATION:

Formation: **Massey**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:35:48
Time Test Ended: 17:40:18

Test Type: Conventional Bottom Hole
Tester: Kevin Taylor
Unit No: 45

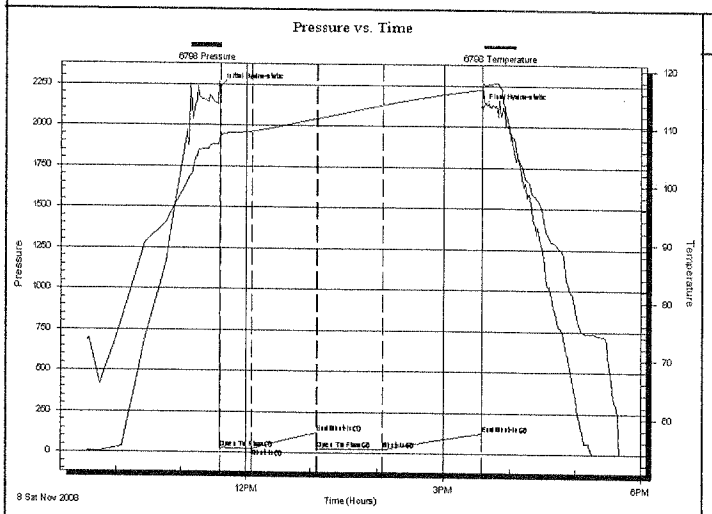
Interval: 4459.00 ft (KB) To 4482.00 ft (KB) (TVD)
Total Depth: 3946.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2032.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**
Press@RunDepth: 24.87 psig @ 4470.00 ft (KB)
Start Date: 2008.11.08 End Date: 2008.11.08
Start Time: 09:33:19 End Time: 17:40:18

Capacity: 7000.00 psig
Last Calib.: 2008.11.08
Time On Btm: 2008.11.08 @ 11:35:18
Time Off Btm: 2008.11.08 @ 15:34:48

TEST COMMENT: I.F. Weak Blow Built To 2 1/2" In 30 Min.
I.S.I. Bled Off 5 Min No Blow
F.F. Fair Blow Built To 5 1/2" In 60 Min
F.S.I. Bled Off 5 Min No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.95	108.75	Initial Hydro-static
1	25.48	108.31	Open To Flow (1)
30	26.18	109.24	Shut-In(1)
90	124.02	111.51	End Shut-In(1)
91	24.84	111.51	Open To Flow (2)
150	24.87	113.88	Shut-In(2)
239	124.29	116.68	End Shut-In(2)
240	2118.34	117.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	SGCM 2%G 98%M	0.01
0.00	120 GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32934 **DST#: 3**

Test Start: 2008.11.08 @ 09:33:18

Tool Information

Drill Pipe:	Length:	4267.00 ft	Diameter:	3.80 inches	Volume:	59.85 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	
					Total Volume:	60.74 bbl	

Drill Pipe Above KB:	8.00 ft
Depth to Top Packer:	4459.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	23.00 ft
Tool Length:	43.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2200.00 lb
Weight set on Packer:		30000.00 lb
Weight to Pull Loose:		64000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	60000.00 lb
	Final	60000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4444.00		
Hydraulic tool	5.00			4449.00		
Packer	5.00			4454.00	20.00	Bottom Of Top Packer
Packer	5.00			4459.00		
Stubb	1.00			4460.00		
Perforations	10.00			4470.00		
Recorder	0.00	6798	Inside	4470.00		
Recorder	0.00	8367	Inside	4470.00		
Perforations	9.00			4479.00		
Bullnose	3.00			4482.00	23.00	Bottom Packers & Anchor
Total Tool Length:	**43.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32934 **DST#: 3**

Test Start: 2008.11.08 @ 09:33:18

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:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9000.00 ppm				
Filter Cake:	0.20 inches				

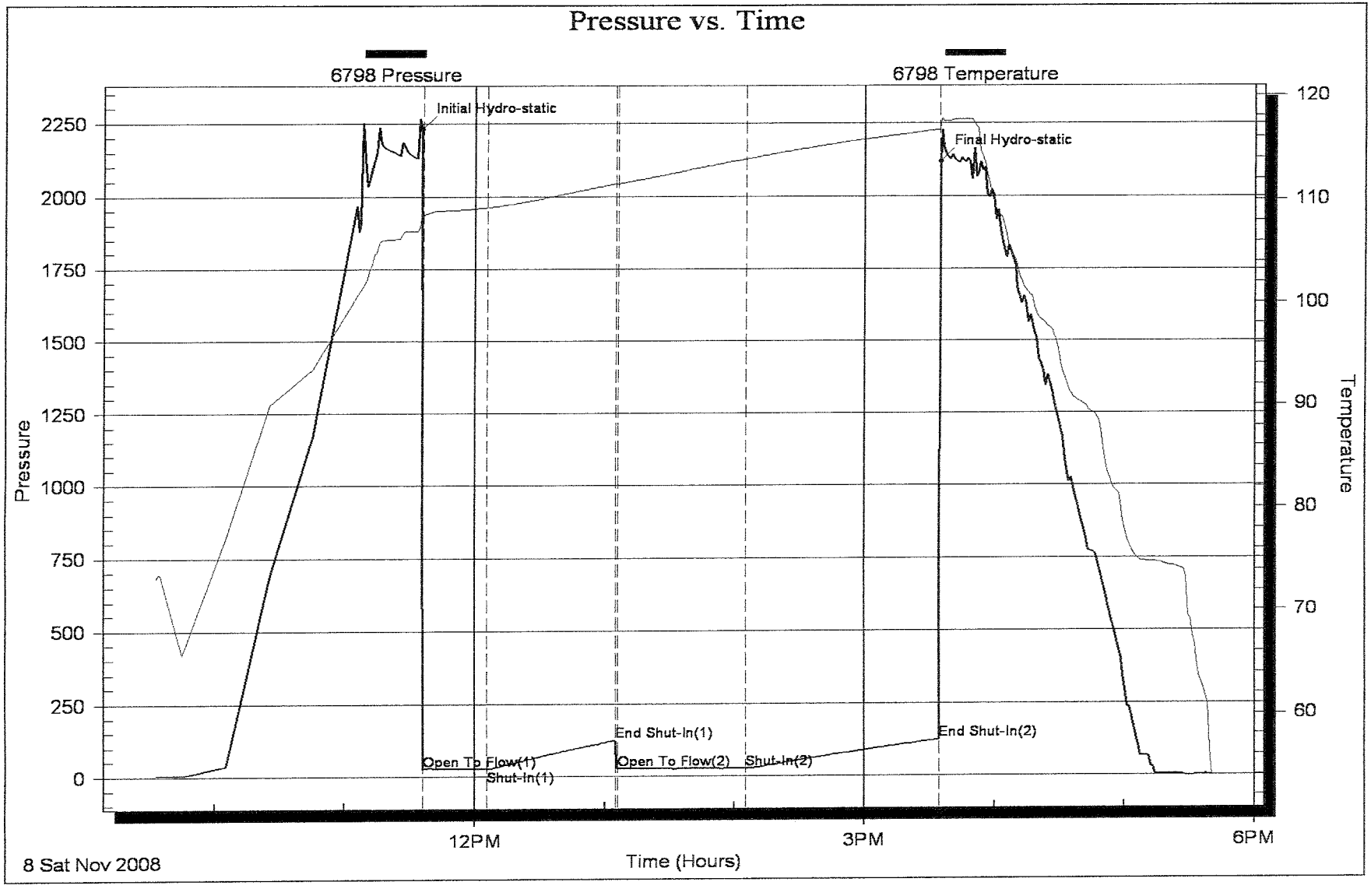
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	SGCM 2%G 98%M	0.015
0.00	120 GIP	0.000

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: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6798 Pressure
6798 Temperature
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Final Hydro-static
End Shut-In(1)
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Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
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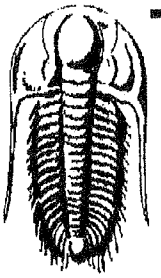
8 Sat Nov 2008



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Company, LLC**

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

13-29s-15w Pratt Ks

Hatfield # 1

Start Date: 2008.11.09 @ 02:57:31
End Date: 2008.11.09 @ 09:32:01
Job Ticket #: 32935 DST #: 4

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32935 **DST#: 4**

Test Start: 2008.11.09 @ 02:57:31

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:26:01
Time Test Ended: 09:32:01

Test Type: Conventional Bottom Hole
Tester: Kevin Taylor
Unit No: 45

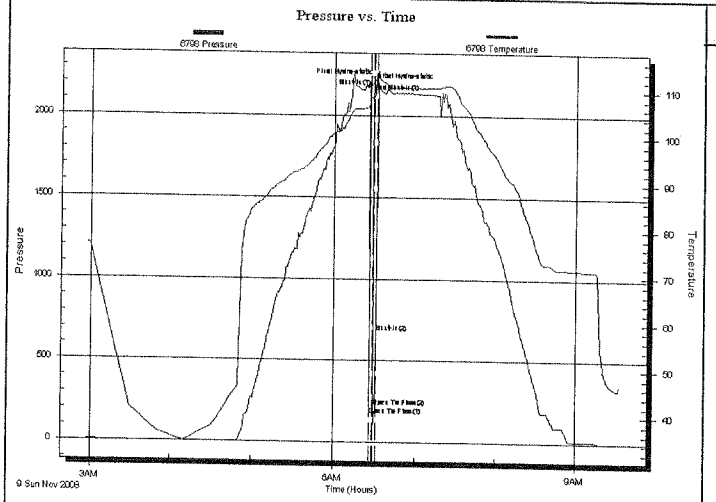
Interval: 4507.00 ft (KB) To 4548.00 ft (KB) (TVD)
Total Depth: 4548.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2032.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**
Press@RunDepth: 2180.03 psig @ 4511.00 ft (KB)
Start Date: 2008.11.09 End Date: 2008.11.09
Start Time: 02:57:32 End Time: 09:32:01

Capacity: 7000.00 psig
Last Calib.: 2008.11.09
Time On Btm: 2008.11.09 @ 06:24:31
Time Off Btm: 2008.11.09 @ 06:31:31

TEST COMMENT: Packer Failer Opend Tool Lost Mud Pulled Tool Filled Hole Reopned Tool Lost Mud Pulled Tool.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2177.59	106.45	Initial Hydro-static
2	163.02	106.60	Open To Flow (1)
2	2180.03	108.55	Shut-In(1)
4	2204.44	108.73	End Shut-In(1)
5	218.17	108.78	Open To Flow (2)
7	672.60	113.49	Shut-In(2)
7	2199.75	114.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	Mud	3.41

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32935 **DST#: 4**

Test Start: 2008.11.09 @ 02:57:31

Tool Information

Drill Pipe:	Length:	4328.00 ft	Diameter:	3.80 inches	Volume:	60.71 bbl	Tool Weight:	2200.00 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:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	Weight to Pull Loose:	67000.00 lb
					Total Volume:	61.60 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		21.00 ft					String Weight: Initial	62000.00 lb
Depth to Top Packer:		4507.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		41.00 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	
Shut In Tool	5.00			4492.00		
Hydraulic tool	5.00			4497.00		
Packer	5.00			4502.00	20.00	Bottom Of Top Packer
Packer	5.00			4507.00		
Stubb	1.00			4508.00		
Perforations	2.00			4510.00		
Change Over Sub	1.00			4511.00		
Recorder	0.00	6798	Inside	4511.00		
Recorder	0.00	8367	Inside	4511.00		
Blank Spacing	30.00			4541.00		
Change Over Sub	1.00			4542.00		
Perforations	3.00			4545.00		
Bullnose	3.00			4548.00	41.00	Bottom Packers & Anchor
Total Tool Length:	**61.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32935 **DST#: 4**

Test Start: 2008.11.09 @ 02:57:31

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:	62.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

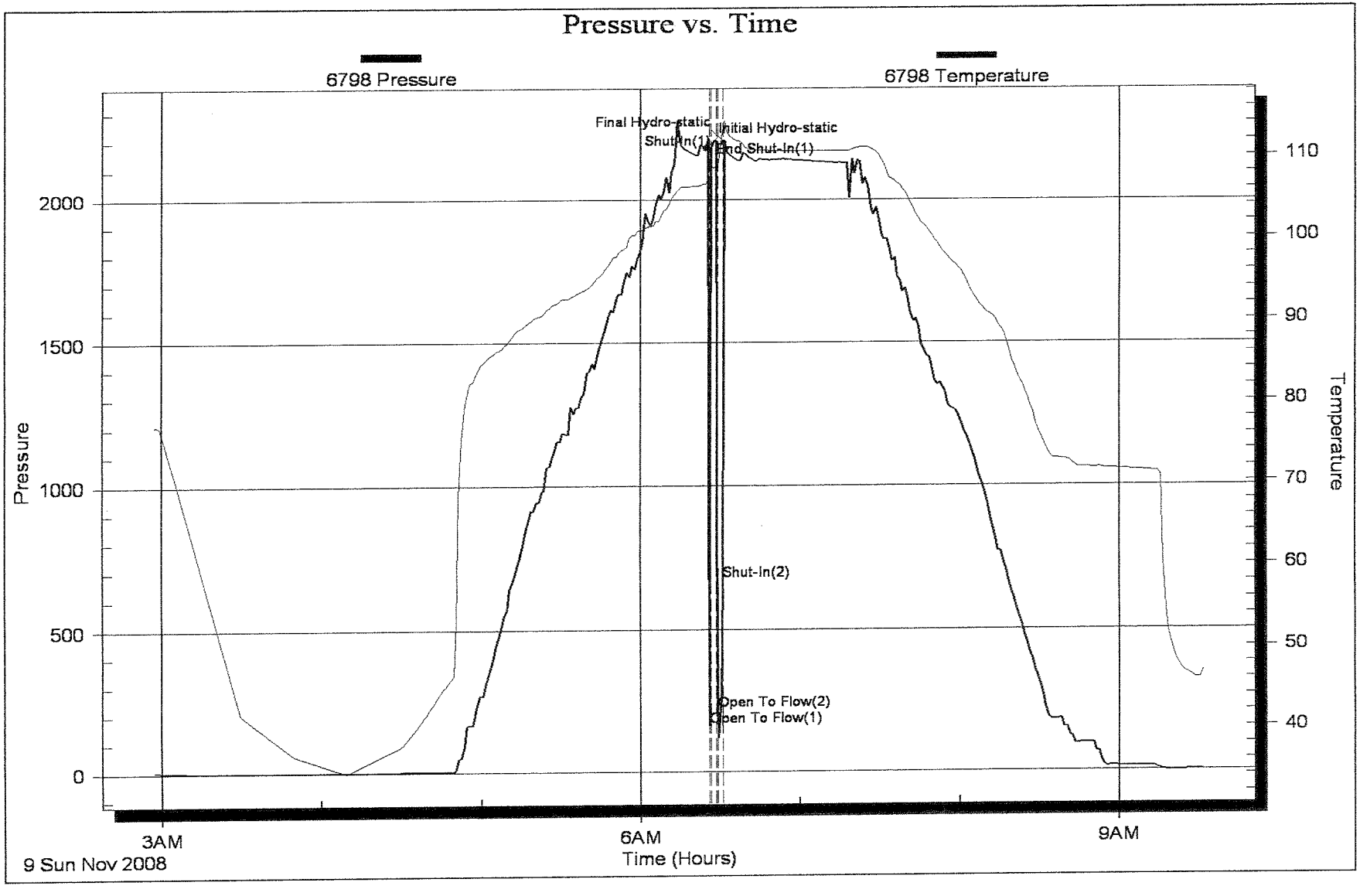
Length ft	Description	Volume bbl
360.00	Mud	3.410

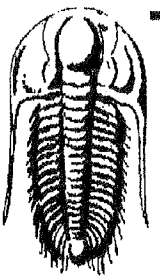
Total Length: 360.00 ft Total Volume: 3.410 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6798 Pressure
6798 Temperature
Final Hydro-static
Shut-In(1)
Initial Hydro-static
End Shut-In(1)
Shut-In(2)
Open To Flow(2)
Open To Flow(1)
Pressure
Temperature
2000
1500
1000
500
0
110
100
90
80
70
60
50
40
3AM
6AM
9AM
9 Sun Nov 2008
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Company, LLC**

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

13-29s-15w Pratt Ks

Hatfield # 1

Start Date: 2008.11.09 @ 09:41:02
End Date: 2008.11.09 @ 17:12:54
Job Ticket #: 32936 DST #: 5

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32936 **DST#: 5**

Test Start: 2008.11.09 @ 09:41:02

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:16:02
Time Test Ended: 17:12:54

Test Type: Conventional Bottom Hole
Tester: Kevin Taylor
Unit No: 45

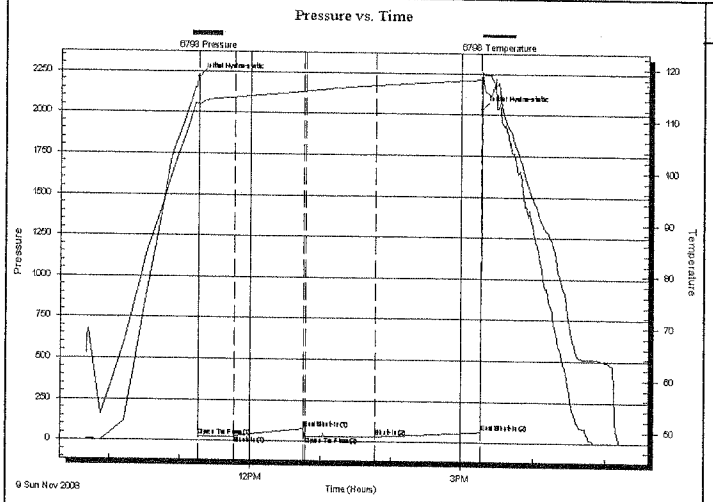
Interval: 4472.00 ft (KB) To 4548.00 ft (KB) (TVD)
Total Depth: 3946.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2032.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**
Press@RunDepth: 31.43 psig @ 4476.00 ft (KB)
Start Date: 2008.11.09 End Date: 2008.11.09
Start Time: 09:41:03 End Time: 17:12:54

Capacity: 7000.00 psig
Last Calib.: 2008.11.09
Time On Btm: 2008.11.09 @ 11:15:32
Time Off Btm:

TEST COMMENT: I.F. Weak Blow Built To 1 1/4" In 30 Min
I.S.I. Bled Off 5 Min No Blow
F.F. Weak Surface Blow Died In 15 Min Flushed Tool Weak Blow Built To 1/2"
F.S.I. Bled Off 5 Min No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.30	113.16	Initial Hydro-static
1	25.28	112.73	Open To Flow (1)
31	27.95	114.15	Shut-In(1)
90	76.78	115.40	End Shut-In(1)
91	28.45	115.42	Open To Flow (2)
151	31.43	116.65	Shut-In(2)
242	63.81	117.95	End Shut-In(2)
242	2031.43	119.06	Initial Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
12.00	Oil Specked Mud	0.06

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32936 **DST#: 5**

Test Start: 2008.11.09 @ 09:41:02

Tool Information

Drill Pipe:	Length:	4287.00 ft	Diameter:	3.80 inches	Volume:	60.14 bbl	Tool Weight:	2200.00 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:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	61.03 bbl	Tool Chased	10.00 ft
Drill Pipe Above KB:		15.00 ft					String Weight: Initial	62000.00 lb
Depth to Top Packer:		4472.00 ft					Final	62000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		76.00 ft						
Tool Length:		96.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4457.00		
Hydraulic tool	5.00			4462.00		
Packer	5.00			4467.00	20.00	Bottom Of Top Packer
Packer	5.00			4472.00		
Stubb	1.00			4473.00		
Perforations	2.00			4475.00		
Change Over Sub	1.00			4476.00		
Recorder	0.00	6798	Inside	4476.00		
Recorder	0.00	8367	Inside	4476.00		
Blank Spacing	61.00			4537.00		
Change Over Sub	1.00			4538.00		
Perforations	7.00			4545.00		
Bullnose	3.00			4548.00	76.00	Bottom Packers & Anchor
Total Tool Length:	**96.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32936 **DST#: 5**

Test Start: 2008.11.09 @ 09:41:02

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:	62.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

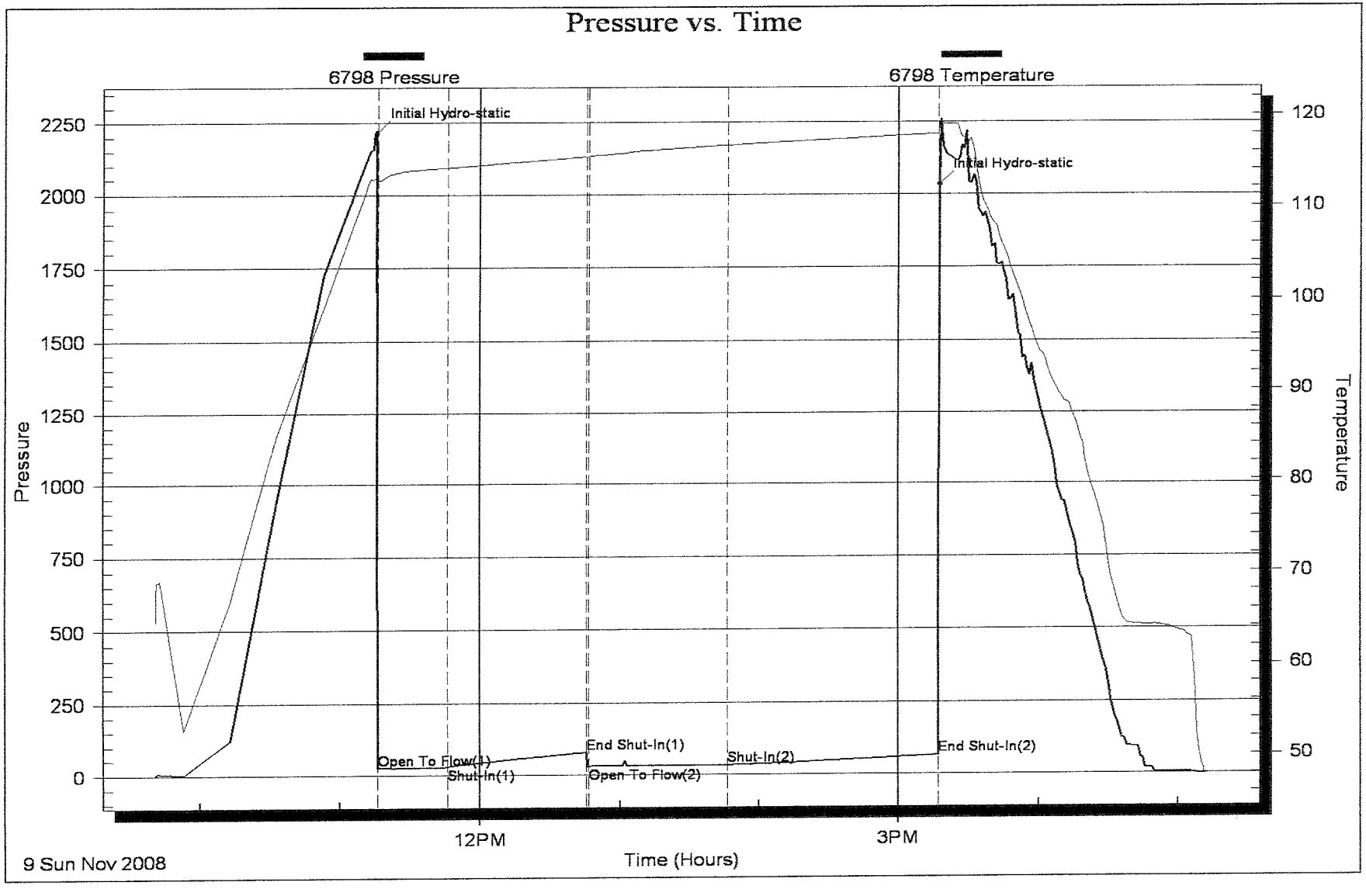
Length ft	Description	Volume bbl
12.00	Oil Specked Mud	0.059

Total Length: 12.00 ft Total Volume: 0.059 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6798 Pressure
6798 Temperature
Initial Hydro-static
Initial Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure
Temperature
2250
2000
1750
1500
1250
1000
750
500
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0
120
110
100
90
80
70
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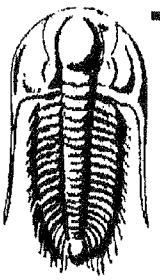
50
12PM
3PM
Time (Hours)
9 Sun Nov 2008



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Company, LLC**

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

13-29s-15w Pratt Ks

Hatfield # 1

Start Date: 2008.11.10 @ 01:54:44
End Date: 2008.11.10 @ 10:12:44
Job Ticket #: 32937 DST #: 6

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32937 **DST#: 6**

Test Start: 2008.11.10 @ 01:54:44

GENERAL INFORMATION:

Formation: **Viola Chert**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:18:44
Time Test Ended: 10:12:44

Test Type: Conventional Bottom Hole
Tester: Jerry Adams
Unit No: 45

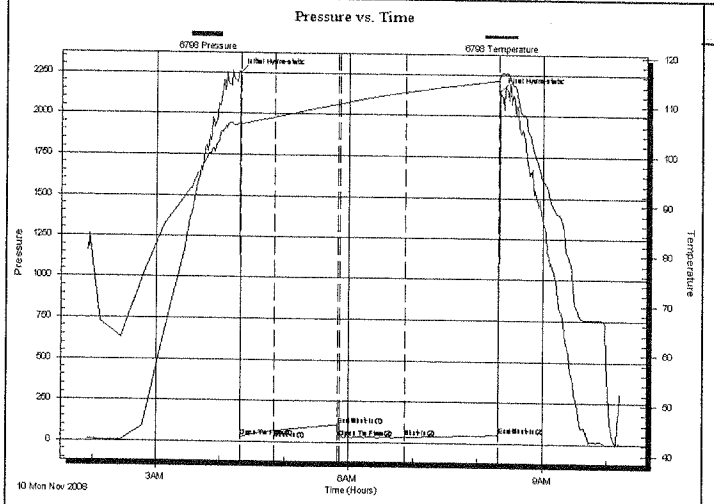
Interval: 4526.00 ft (KB) To 4576.00 ft (KB) (TVD)
Total Depth: 4576.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2032.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**
Press@RunDepth: 31.70 psig @ 4538.00 ft (KB)
Start Date: 2008.11.10 End Date: 2008.11.10
Start Time: 01:54:45 End Time: 10:12:44

Capacity: 7000.00 psig
Last Calib.: 2008.11.10
Time On Btm: 2008.11.10 @ 04:18:14
Time Off Btm: 2008.11.10 @ 08:19:44

TEST COMMENT: IF:Weak blow . Built to 1".
ISI:No blow .
FF:Weak blow . Built to 1 1/4".
FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2248.97	106.36	Initial Hydro-static
1	28.27	105.83	Open To Flow (1)
32	68.21	107.52	Shut-In(1)
92	104.45	110.27	End Shut-In(1)
94	29.49	110.30	Open To Flow (2)
154	31.70	112.77	Shut-In(2)
241	49.16	115.25	End Shut-In(2)
242	2152.16	116.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud 100%m	0.05

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32937 **DST#: 6**

Test Start: 2008.11.10 @ 01:54:44

Tool Information

Drill Pipe:	Length:	4359.00 ft	Diameter:	3.80 inches	Volume:	61.15 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	
					Total Volume:	62.04 bbl	

Drill Pipe Above KB:	33.00 ft
Depth to Top Packer:	4526.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	50.00 ft
Tool Length:	70.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:		2200.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		70000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	62000.00 lb
	Final	62000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4511.00		
Hydraulic tool	5.00			4516.00		
Packer	5.00			4521.00	20.00	Bottom Of Top Packer
Packer	5.00			4526.00		
Stubb	1.00			4527.00		
Perforations	10.00			4537.00		
Change Over Sub	1.00			4538.00		
Recorder	0.00	6798	Inside	4538.00		
Recorder	0.00	8367	Inside	4538.00		
Blank Spacing	31.00			4569.00		
Change Over Sub	1.00			4570.00		
Perforations	3.00			4573.00		
Bullnose	3.00			4576.00	50.00	Bottom Packers & Anchor
Total Tool Length:	**70.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32937 **DST#: 6**

Test Start: 2008.11.10 @ 01:54:44

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:	65.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.18 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

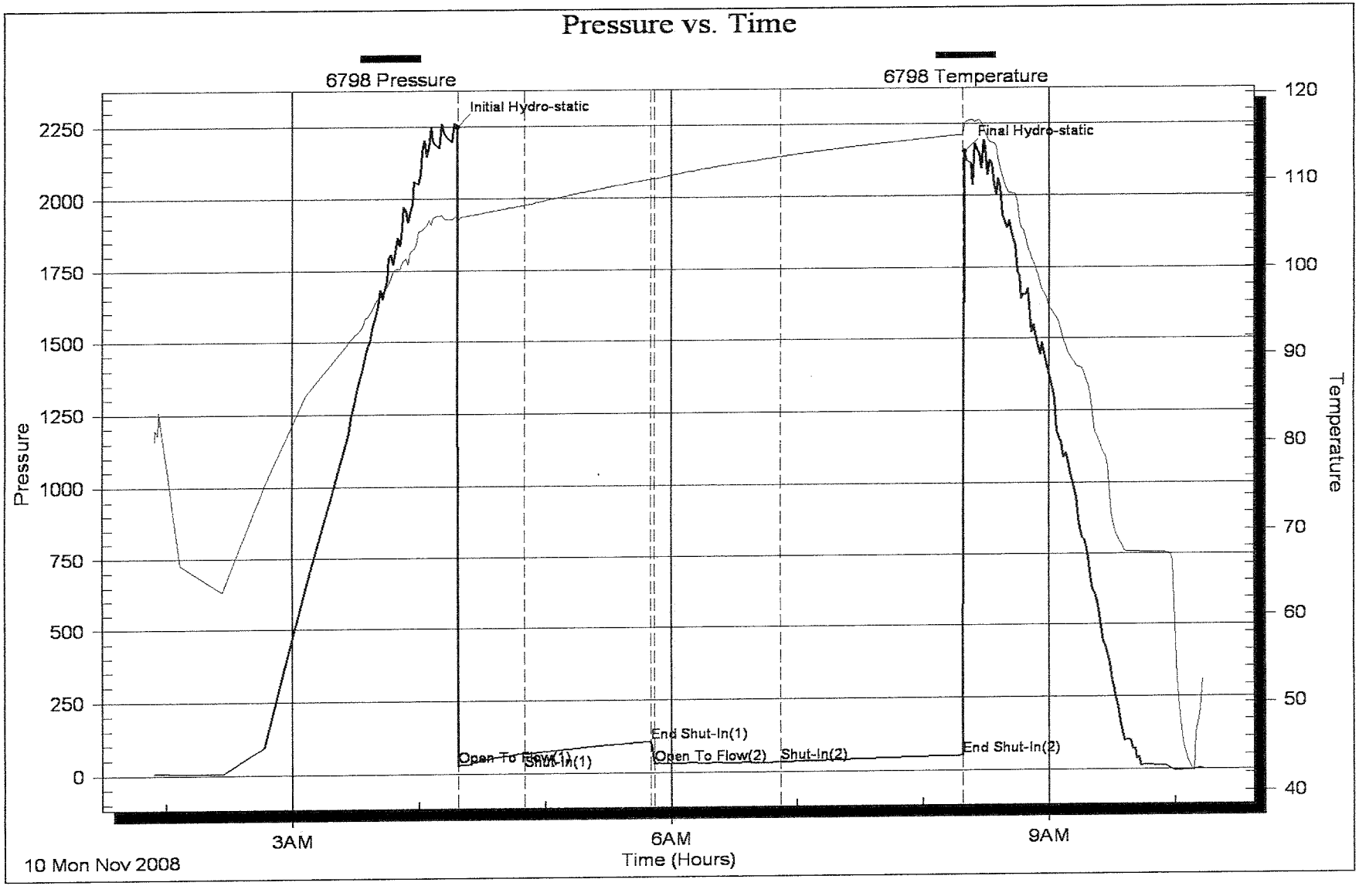
Length ft	Description	Volume bbl
10.00	Drilling Mud 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6798 Pressure
6798 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure
Temperature
2250
2000
1750
1500
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750
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80
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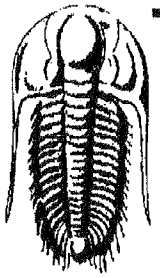
9AM
Time (Hours)
10 Mon Nov 2008



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Company, LLC**

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

13-29s-15w Pratt Ks

Hatfield # 1

Start Date: 2008.11.11 @ 00:01:18
End Date: 2008.11.11 @ 05:28:18
Job Ticket #: 32938 DST #: 7

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32938 **DST#: 7**

Test Start: 2008.11.11 @ 00:01:18

GENERAL INFORMATION:

Formation: **Simpson Dol./Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:32:48
Time Test Ended: 05:28:18

Test Type: Conventional Bottom Hole
Tester: Jerry Adams
Unit No: 45

Interval: 4596.00 ft (KB) To 4654.00 ft (KB) (TVD)
Total Depth: 4654.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

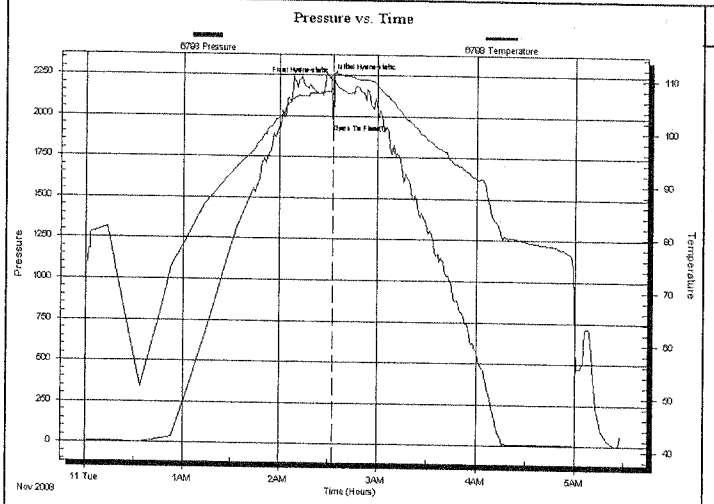
Reference Elevations: 2032.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: psig @ 4597.00 ft (KB)
Start Date: 2008.11.11 End Date: 2008.11.11
Start Time: 00:01:19 End Time: 05:28:18

Capacity: 7000.00 psig
Last Calib.: 2008.11.11
Time On Btm: 2008.11.11 @ 02:31:18
Time Off Btm: 2008.11.11 @ 02:33:48

TEST COMMENT: IF:Hit bridge 65' off bottom, opened tool to try to push through bridge, tool opened and mud fell, unable to push through bridge. Mis-run.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.17	107.66	Initial Hydro-static
2	1896.86	108.38	Open To Flow (1)
3	2210.33	111.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	Drilling Mud 100%m	1.87

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32938 **DST#: 7**

Test Start: 2008.11.11 @ 00:01:18

Tool Information

Drill Pipe:	Length:	4422.00 ft	Diameter:	3.80 inches	Volume:	62.03 bbl	Tool Weight:		2200.00 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:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	Weight to Pull Loose:		85000.00 lb
					Total Volume:	62.92 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		26.00 ft					String Weight:	Initial	62000.00 lb
Depth to Top Packer:		4596.00 ft						Final	63000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		58.00 ft							
Tool Length:		78.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4581.00		
Hydraulic tool	5.00			4586.00		
Packer	5.00			4591.00	20.00	Bottom Of Top Packer
Packer	5.00			4596.00		
Stubb	1.00			4597.00		
Recorder	0.00	6798	Inside	4597.00		
Recorder	0.00	8367	Inside	4597.00		
Perforations	18.00			4615.00		
Change Over Sub	1.00			4616.00		
Blank Spacing	31.00			4647.00		
Change Over Sub	1.00			4648.00		
Perforations	3.00			4651.00		
Bullnose	3.00			4654.00	58.00	Bottom Packers & Anchor
Total Tool Length:	**78.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Company, LLC

100 S. Main, Ste. 420
Wichita, Kansas 67202

ATTN: Tim Priest

Hatfield # 1

13-29s-15w Pratt Ks

Job Ticket: 32938 **DST#: 7**

Test Start: 2008.11.11 @ 00:01:18

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:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.38 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

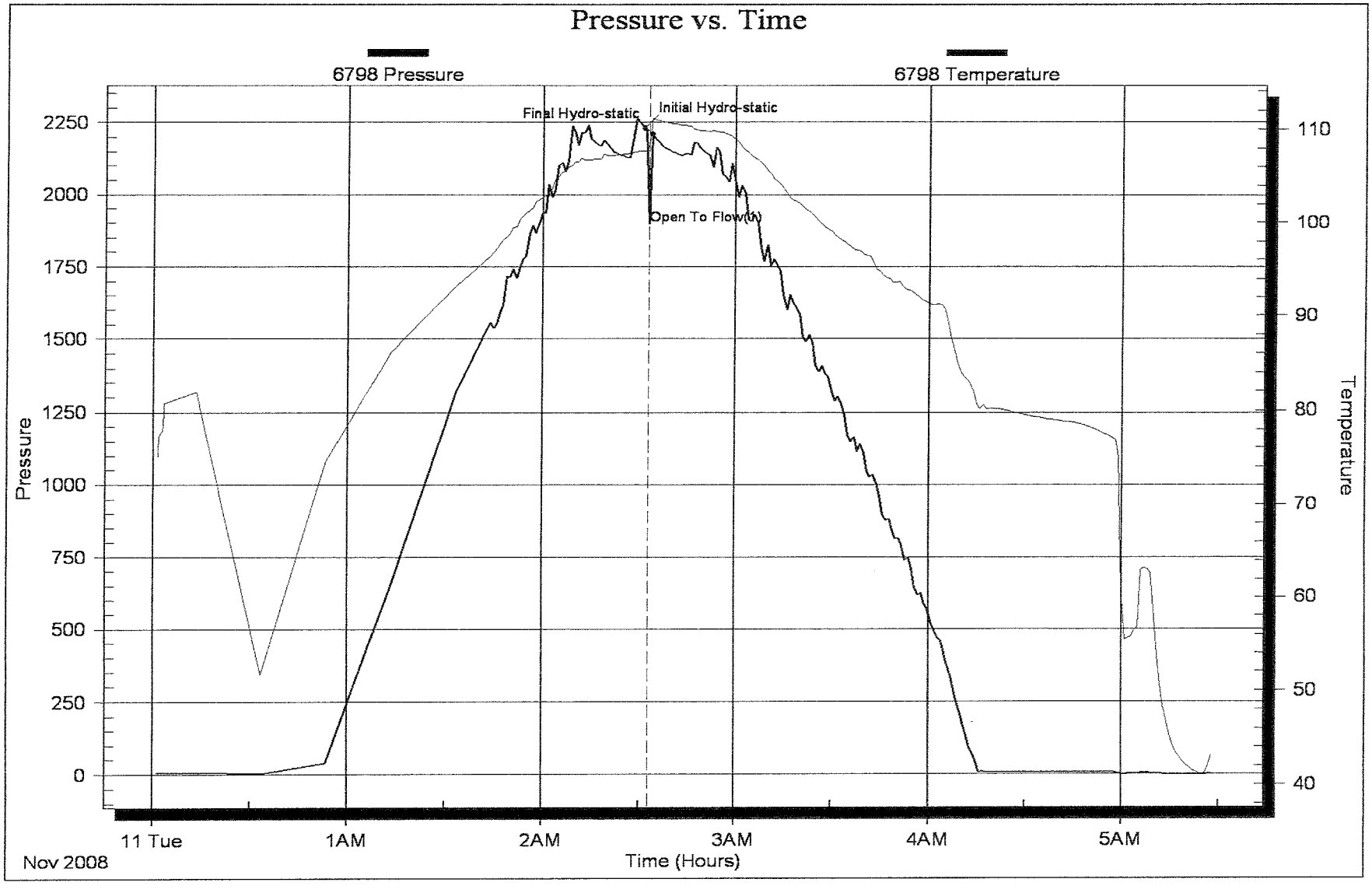
Length ft	Description	Volume bbl
250.00	Drilling Mud 100%m	1.867

Total Length: 250.00 ft Total Volume: 1.867 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6798 Pressure
6798 Temperature
Final Hydro-static
Initial Hydro-static
Open To Flow(1)
Pressure
Temperature
2250
2000
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
11 Tue
1AM
2AM
3AM
4AM
5AM
Nov 2008
Time (Hours)