

**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Company, LLC

Kisling #1

125 N. Market, Ste. 1000
Wichita, Kansas 67202

22-34s-10w Barber Co

ATTN: Roger Martin

Job Ticket: 039201

DST#: 1

Test Start: 2010.09.17 @ 14:16:09

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:36:39

Time Test Ended: 01:12:09

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: 4530.00 ft (KB) To 4675.00 ft (KB) (TVD)

Reference Elevations: 1347.00 ft (KB)

Total Depth: 4675.00 ft (KB) (TVD)

1338.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 124.24 psig @ 4537.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.17

End Date: 2010.09.18

Last Calib.: 2010.09.18

Start Time: 14:16:10

End Time: 01:12:09

Time On Btm: 2010.09.17 @ 17:35:39

Time Off Btm: 2010.09.17 @ 22:07:09

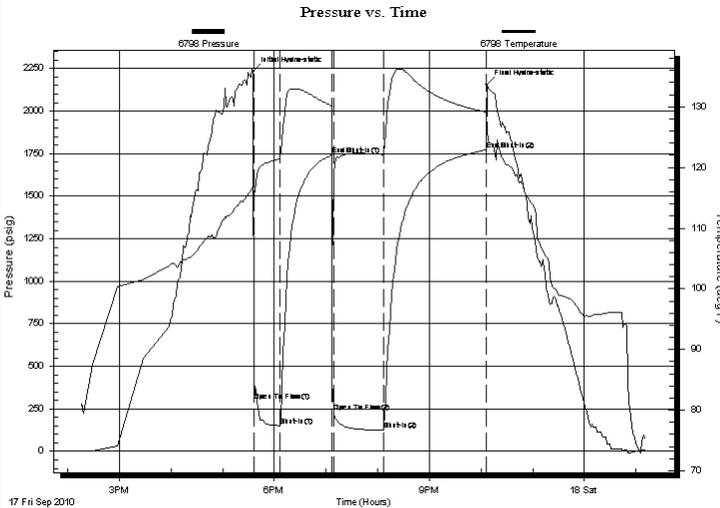
TEST COMMENT: IF: Strong blow . B.O.B. in 75 secs. GTS in 6 mins. (see gas flow report.)

IS: Fair blow . Built to 5".

FF: Strong blow . B.O.B. immediately.

FS:

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.49	116.73	Initial Hydro-static
1	293.86	115.66	Open To Flow (1)
31	150.14	121.44	Shut-In(1)
91	1741.71	130.14	End Shut-In(1)
94	231.06	119.46	Open To Flow (2)
151	124.24	122.17	Shut-In(2)
270	1772.78	129.19	End Shut-In(2)
272	2157.06	126.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
302.00	SGCM 5%g 95% m	2.58
0.00	4232' GIP	0.00
0.00		0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	4.00	288.97
Last Gas Rate			
Max. Gas Rate	0.75	10.00	382.69



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Woolsey Operating Co.LLC

Kisling #1

125 N. Market, Ste. 1000
Wichita, Kansas 67202

22-34s-10w Barber Ks

ATTN: Roger Martin

Job Ticket: 38808

DST#: 4

Test Start: 2010.09.23 @ 05:33:02

GENERAL INFORMATION:

Formation: **Simpson F Dolomite**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:25:02

Time Test Ended: 16:39:02

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: 5105.00 ft (KB) To 5133.00 ft (KB) (TVD)

Reference Elevations: 1347.00 ft (KB)

Total Depth: 5133.00 ft (KB) (TVD)

1338.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8167

Inside

Press @ Run Depth: 62.42 psig @ 5106.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.23

End Date:

2010.09.23

Last Calib.:

2010.09.23

Start Time:

05:33:07

End Time:

16:39:02

Time On Btm:

2010.09.23 @ 08:23:17

Time Off Btm:

2010.09.23 @ 13:05:02

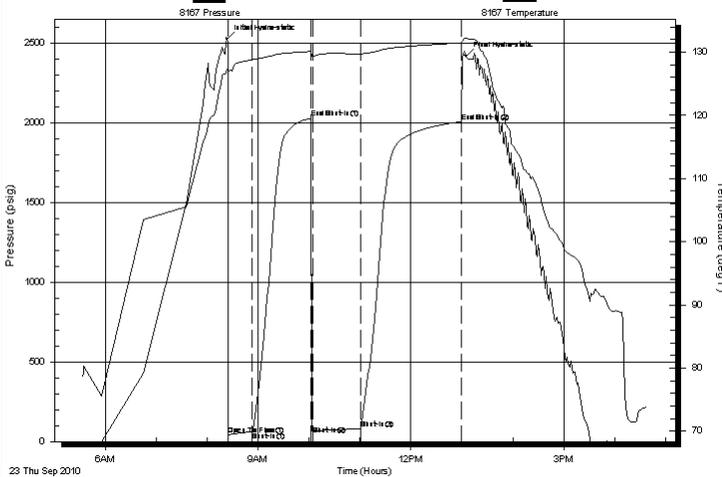
TEST COMMENT: IF: Fair to strong blow . B.O.B. in 14 mins.

IS: Weak blow . 1/2 - 1".

FF: Strong blow . B.O.B. in 12 secs.

FS: Weak blow . 1/2 - 1".

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2527.78	127.29	Initial Hydro-static
2	43.04	126.76	Open To Flow (1)
30	62.42	128.78	Shut-In(1)
99	2030.47	130.15	End Shut-In(1)
101	45.59	129.29	Shut-In(2)
158	80.67	129.67	Shut-In(3)
277	2009.38	131.48	End Shut-In(2)
282	2420.79	132.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 6%g 46%o 48%m	0.59
75.00	OCM 9%o 91%m	0.51
0.00	3005 ft.of GIP	0.00

Gas Rates

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



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FLUID SUMMARY

Woolsey Operating Co.LLC

Kisling #1

125 N. Market, Ste. 1000
Wichita, Kansas 67202

22-34s-10w Barber Ks

Job Ticket: 38808

DST#: 4

ATTN: Roger Martin

Test Start: 2010.09.23 @ 05:33:02

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:

9000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 12.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.21 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	GOCM 6%g 46%o 48%m	0.590
75.00	OCM 9%o 91%m	0.505
0.00	3005 ft.of GIP	0.000

Total Length: 195.00 ft

Total Volume: 1.095 bbl

Num Fluid Samples: 0

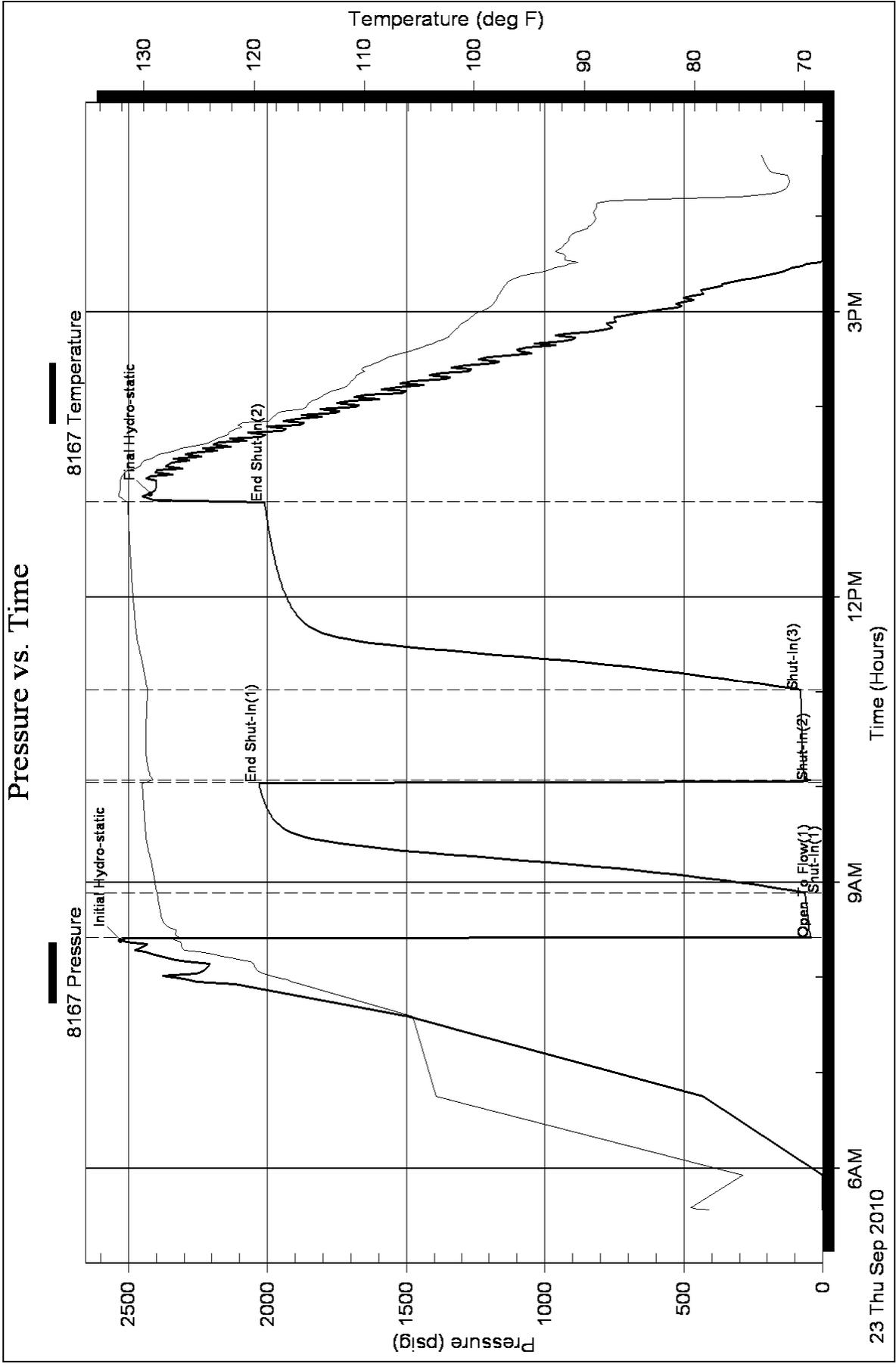
Num Gas Bombs: 0

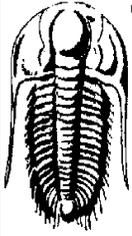
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM 6#/bbl





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DRILL STEM TEST REPORT

Woolsey Operating Co.LLC

Kisling #1

125 N. Market, Ste. 1000
Wichita, Kansas 67202

22-34s-10w Barber Ks

ATTN: Roger Martin

Job Ticket: 38807

DST#: 3

Test Start: 2010.09.20 @ 23:56:42

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:05:12

Time Test Ended: 11:11:12

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: 4705.00 ft (KB) To 4750.00 ft (KB) (TVD)

Reference Elevations: 1347.00 ft (KB)

Total Depth: 4750.00 ft (KB) (TVD)

1338.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8167

Inside

Press @ Run Depth: 249.67 psig @ 4706.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.20

End Date: 2010.09.21

Last Calib.: 2010.09.21

Start Time: 23:56:47

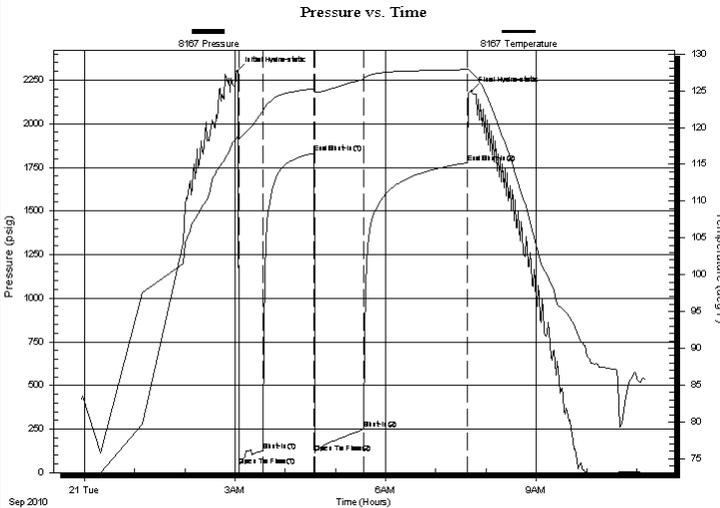
End Time: 11:11:12

Time On Btm: 2010.09.21 @ 03:02:57

Time Off Btm: 2010.09.21 @ 07:42:27

TEST COMMENT: IF: Strong blow . B.O.B. in 55 secs.
IS: Fair blow . Increase to 8".
FF: Strong blow . GTS in 6 mins. (see gas flow report)
FS: Strong blow . B.O.B. 7 mins. after bled off.

PRESSURE SUMMARY



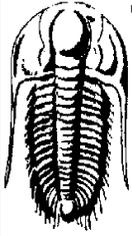
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.18	118.66	Initial Hydro-static
3	41.26	118.45	Open To Flow (1)
31	125.63	122.17	Shut-In(1)
92	1830.21	125.27	End Shut-In(1)
93	110.60	124.85	Open To Flow (2)
151	249.67	126.58	Shut-In(2)
275	1776.33	127.88	End Shut-In(2)
280	2185.01	127.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	SW /Rw .065 ohms @83deg	1.80
185.00	MW w/o specs 11% m 89% w	2.60
100.00	SOCWM 1% o 49% w 50% m	1.40

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.76
Last Gas Rate	0.25	3.00	27.76
Max. Gas Rate	0.25	3.50	28.56



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Woolsey Operating Co.LLC

Kisling #1

125 N. Market, Ste. 1000
Wichita, Kansas 67202

22-34s-10w Barber Ks

Job Ticket: 38807

DST#: 3

ATTN: Roger Martin

Test Start: 2010.09.20 @ 23:56:42

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:

104000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10600.00 ppm

Filter Cake: 0.21 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
245.00	SW /Rw .065 ohms @83deg	1.797
185.00	MW w/o specs 11%m 89%w	2.595
100.00	SOCWM 1%o 49%w 50%m	1.403

Total Length: 530.00 ft

Total Volume: 5.795 bbl

Num Fluid Samples: 0

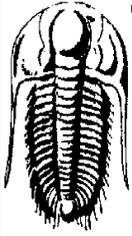
Num Gas Bombs: 1

Serial #: gp-3

Laboratory Name: caraw ay

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co.LLC

Kisling #1

125 N. Market, Ste. 1000
Wichita, Kansas 67202

22-34s-10w Barber Ks

Job Ticket: 38807

DST#: 3

ATTN: Roger Martin

Test Start: 2010.09.20 @ 23:56:42

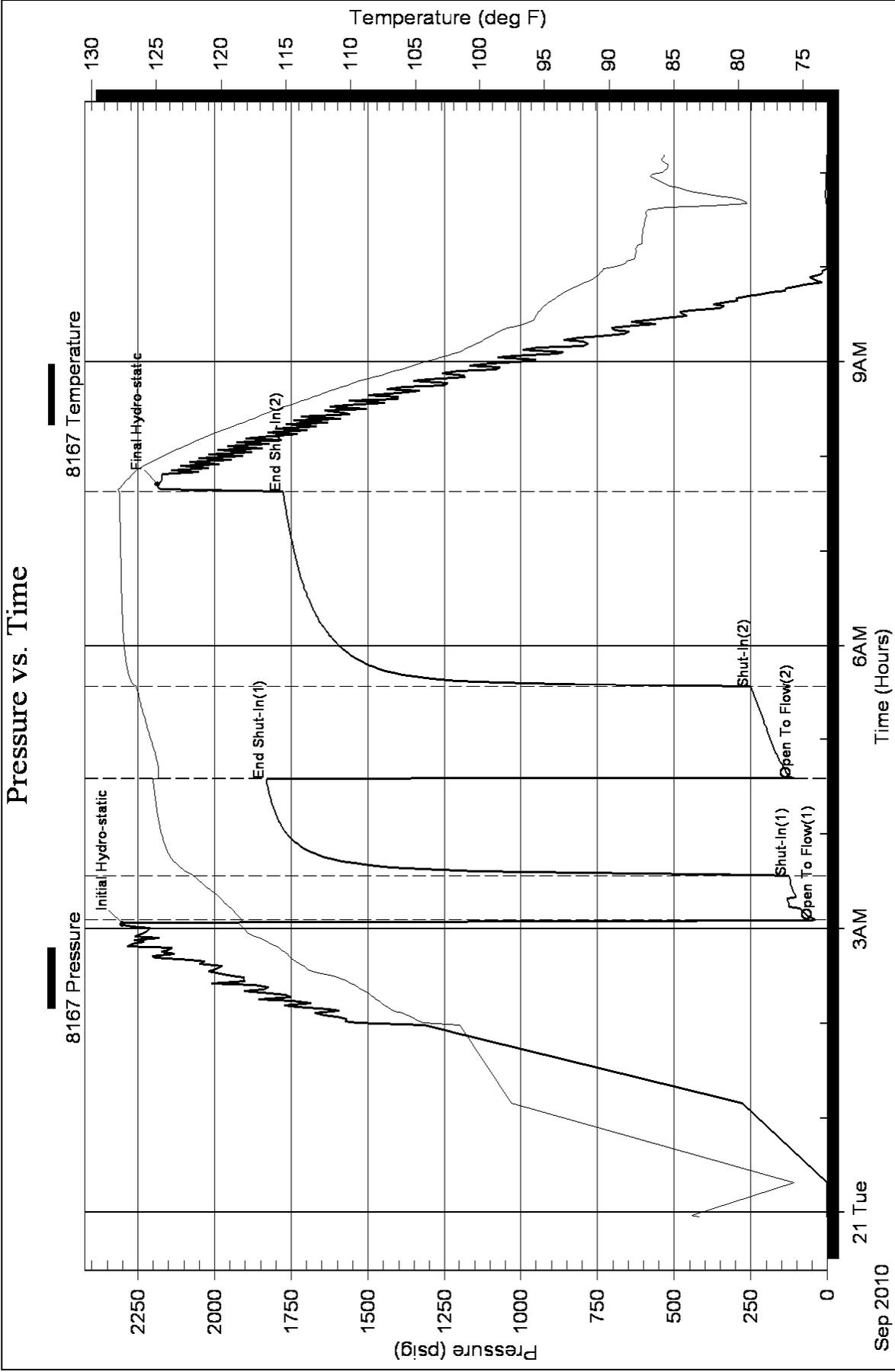
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	3.00	27.76
2	10	0.25	3.00	27.76
2	20	0.25	3.50	28.56
2	30	0.25	3.00	27.76
2	40	0.25	3.00	27.76
2	50	0.25	3.00	27.76

Pressure vs. Time





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DRILL STEM TEST REPORT

Woolsey Operating Company, LLC

Kisling #1

125 N. Market, Ste. 1000
Wichita, Kansas 67202

22-34s-10w Barber Co

Job Ticket: 039202

DST#: 2

ATTN: Roger Martin

Test Start: 2010.09.18 @ 14:52:41

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:33:11

Time Test Ended: 00:15:41

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: 4677.00 ft (KB) To 4705.00 ft (KB) (TVD)

Reference Elevations: 1347.00 ft (KB)

Total Depth: 4705.00 ft (KB) (TVD)

1338.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 32.97 psig @ 4678.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.18

End Date:

2010.09.19

Last Calib.:

2010.09.19

Start Time: 14:52:42

End Time:

00:15:41

Time On Btm:

2010.09.18 @ 17:30:41

Time Off Btm:

2010.09.18 @ 21:32:41

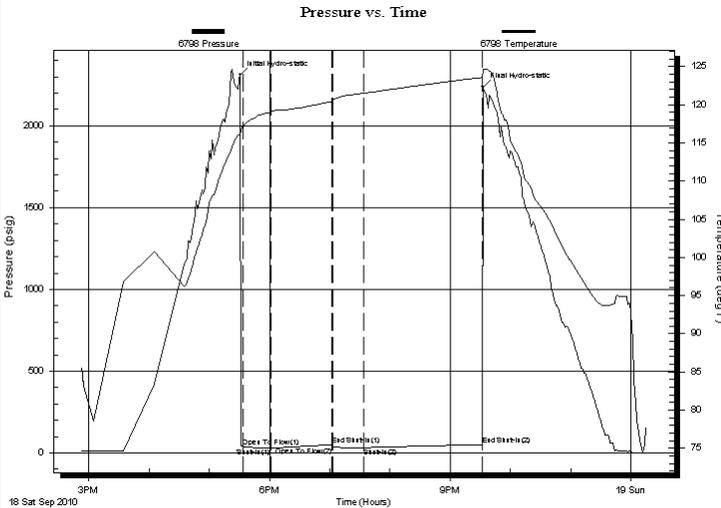
TEST COMMENT: IF:Weak 1/8" blow . Dead in 12 mins.

IS:No blow .

FF:No blow .

FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2312.22	116.02	Initial Hydro-static
3	39.94	117.16	Open To Flow (1)
31	31.36	118.99	Shut-In(1)
91	50.44	120.40	End Shut-In(1)
93	36.13	120.55	Open To Flow (2)
123	32.97	121.50	Shut-In(2)
241	51.14	123.56	End Shut-In(2)
242	2237.45	124.53	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud 100%m	0.02
0.00		0.00

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



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Kisling #1

125 N. Market, Ste. 1000
Wichita, Kansas 67202

22-34s-10w Barber Co

Job Ticket: 039202

DST#: 2

ATTN: Roger Martin

Test Start: 2010.09.18 @ 14:52:41

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 14.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: 0.21 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud 100%m	0.025
0.00		0.000

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

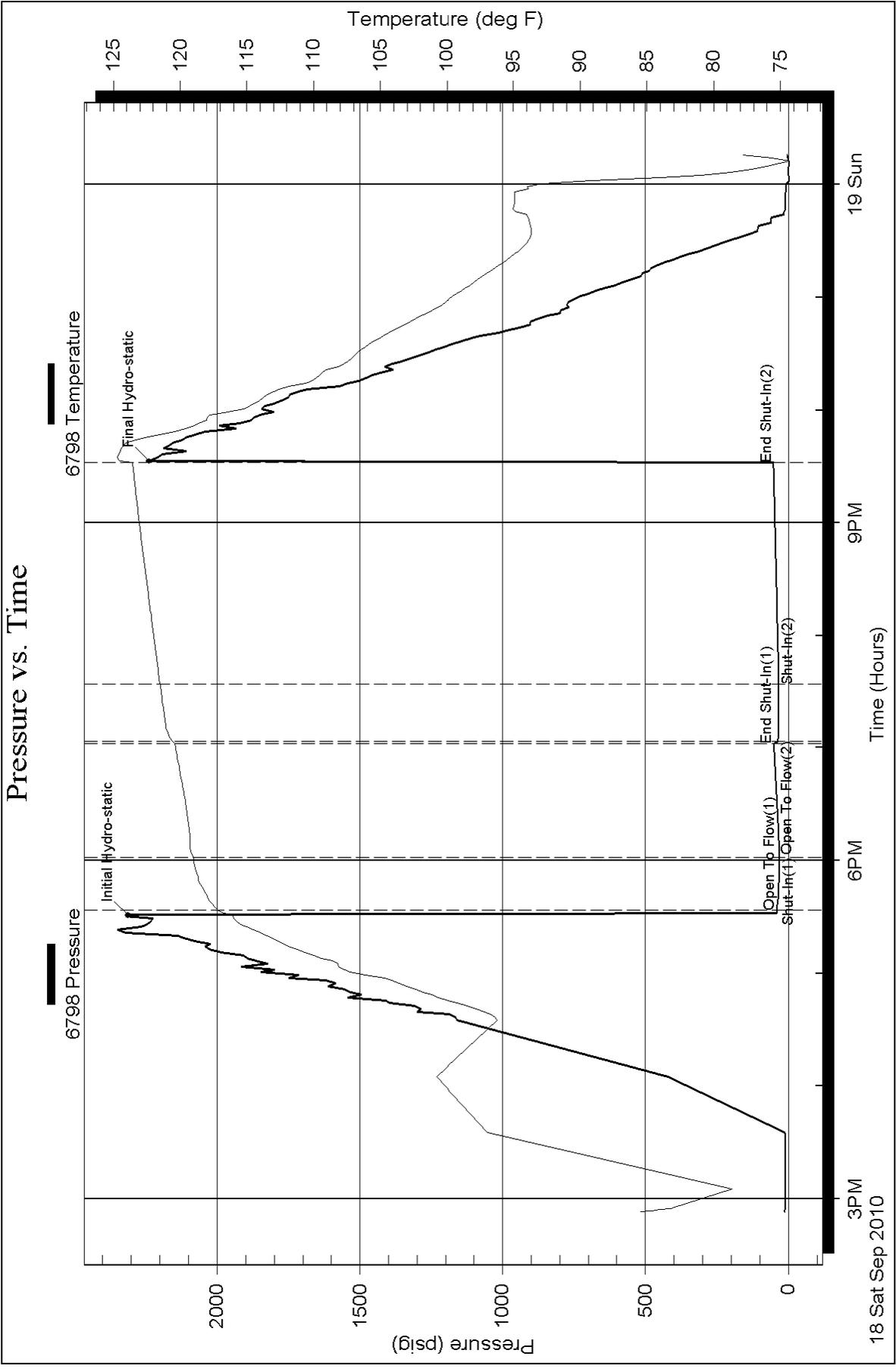
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company, LLC

Kisling #1

125 N. Market, Ste. 1000
Wichita, Kansas 67202

22-34s-10w Barber Co

Job Ticket: 039201

DST#: 1

ATTN: Roger Martin

Test Start: 2010.09.17 @ 14:16:09

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.21 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
302.00	SGCM 5%g 95%m	2.578
0.00	4232' GIP	0.000
0.00		0.000

Total Length: 302.00 ft

Total Volume: 2.578 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: JA-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Company, LLC

Kisling #1

125 N. Market, Ste. 1000
Wichita, Kansas 67202

22-34s-10w Barber Co

Job Ticket: 039201

DST#: 1

ATTN: Roger Martin

Test Start: 2010.09.17 @ 14:16:09

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.75	4.00	288.97
1	20	0.75	4.00	288.97
1	30	0.75	3.00	273.35
2	10	0.75	10.00	382.69
2	20	0.75	4.00	288.97
2	30	0.75	2.00	257.73
2	40	0.75	2.00	257.73
2	50	0.75	2.00	257.73
2	60	0.75	1.50	249.92
0	-	-999999.00	-999999.00	-999999.00

Pressure vs. Time

