

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior

Garden City Ks
67846 PO Box 399

ATTN: Jason Alm

Schniepp #2-31

Sec31Twp18sRge21w

Job Ticket: 38531

DST#: 1

Test Start: 2010.04.07 @ 11:50:54

GENERAL INFORMATION:

Formation: **Cher.Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:07:54

Time Test Ended: 17:10:54

Test Type: Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 4138.00 ft (KB) To 4162.00 ft (KB) (TVD)

Reference Elevations: 2125.00 ft (KB)

Total Depth: 4162.00 ft (KB) (TVD)

2119.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 6.00 ft

Serial #: 8319 Inside

Press@RunDepth: 18.45 psig @ 4144.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.07

End Date:

2010.04.07

Last Calib.: 2010.04.07

Start Time: 11:50:59

End Time:

17:10:53

Time On Btm: 2010.04.07 @ 14:06:24

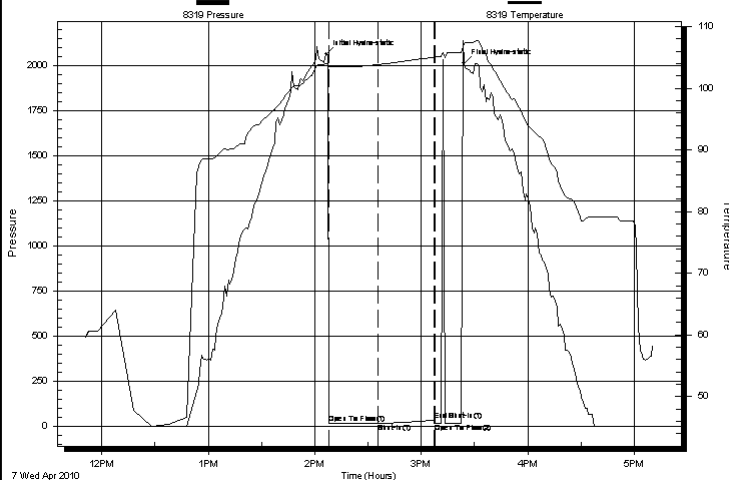
Time Off Btm: 2010.04.07 @ 15:23:54

TEST COMMENT: IF-very weak surface blow died in 23min

ISI-No blow

FF-No blow Flushed tool

Pressure vs. Time



PRESSURE SUMMARY

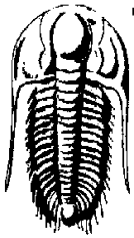
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.80	103.95	Initial Hydro-static
2	16.51	103.55	Open To Flow (1)
29	18.45	103.83	Shut-In(1)
61	35.19	105.06	End Shut-In(1)
62	18.03	105.07	Open To Flow (2)
78	2012.33	107.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Schniepp #2-31

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67846 PO Box 399

Sec31Twp18sRge21w

Job Ticket: 38531

DST#: 1

ATTN: Jason Alm

Test Start: 2010.04.07 @ 11:50:54

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: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

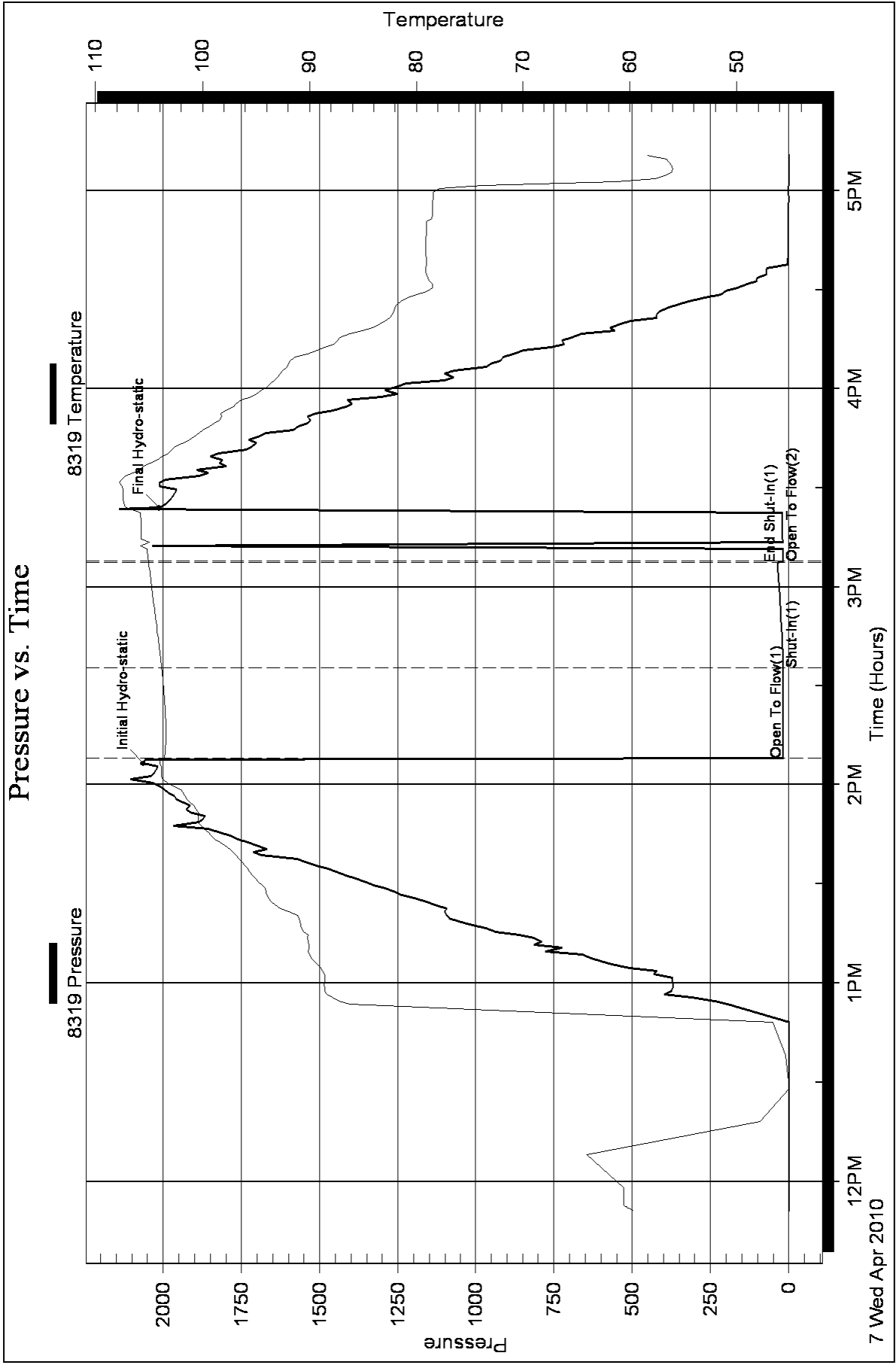
Num Gas Bombs: 0

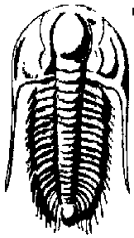
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

American Warrior

Garden City Ks
67846 PO Box 399

ATTN: Jason Alm

Schniepp #2-31

Sec31Twp18sRge21w

Job Ticket: 38492

DST#: 2

Test Start: 2010.04.08 @ 01:24:13

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:28:13

Time Test Ended: 08:56:13

Test Type: Bottom Hole

Tester: Jeff Brown

Unit No: 47

Interval: 4218.00 ft (KB) To 4225.00 ft (KB) (TVD)

Reference Elevations: 2125.00 ft (KB)

Total Depth: 4225.00 ft (KB) (TVD)

2119.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8319 Inside

Press@RunDepth: 37.00 psig @ 4222.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.08

End Date:

2010.04.08

Last Calib.: 2010.04.08

Start Time: 01:24:18

End Time:

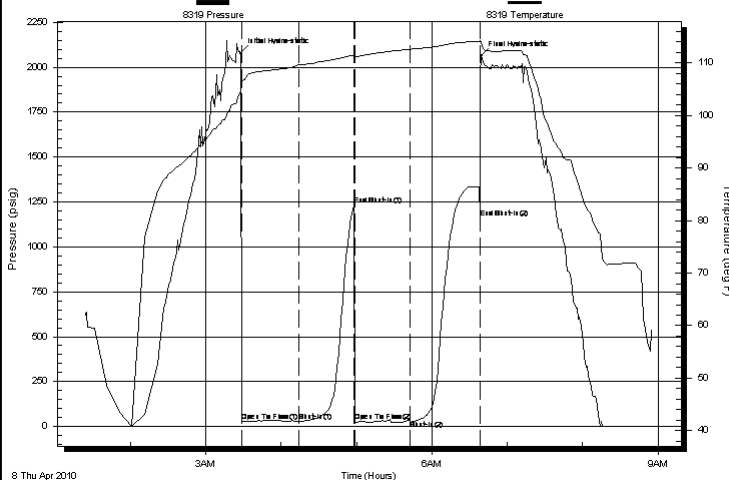
08:56:12

Time On Btm: 2010.04.08 @ 03:27:43

Time Off Btm: 2010.04.08 @ 06:39:12

TEST COMMENT: IFP-Weak blow built to 1 1/4 in
ISI-Dead no blow back
FFP-Dead no blow
FSI-Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

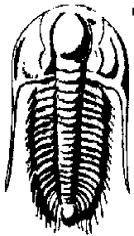
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.74	104.46	Initial Hydro-static
1	26.59	105.83	Open To Flow (1)
46	31.88	109.60	Shut-In(1)
90	1234.38	111.48	End Shut-In(1)
91	27.79	111.20	Open To Flow (2)
135	37.00	112.62	Shut-In(2)
191	1163.15	114.12	End Shut-In(2)
192	2063.22	114.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.01

Gas Rates

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

American Warrior

Schniepp #2-31

Garden City Ks
67846 PO Box 399

Sec31Twp18sRge21w

Job Ticket: 38492

DST#: 2

ATTN: Jason Alm

Test Start: 2010.04.08 @ 01:24:13

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: 9.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud	0.010

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

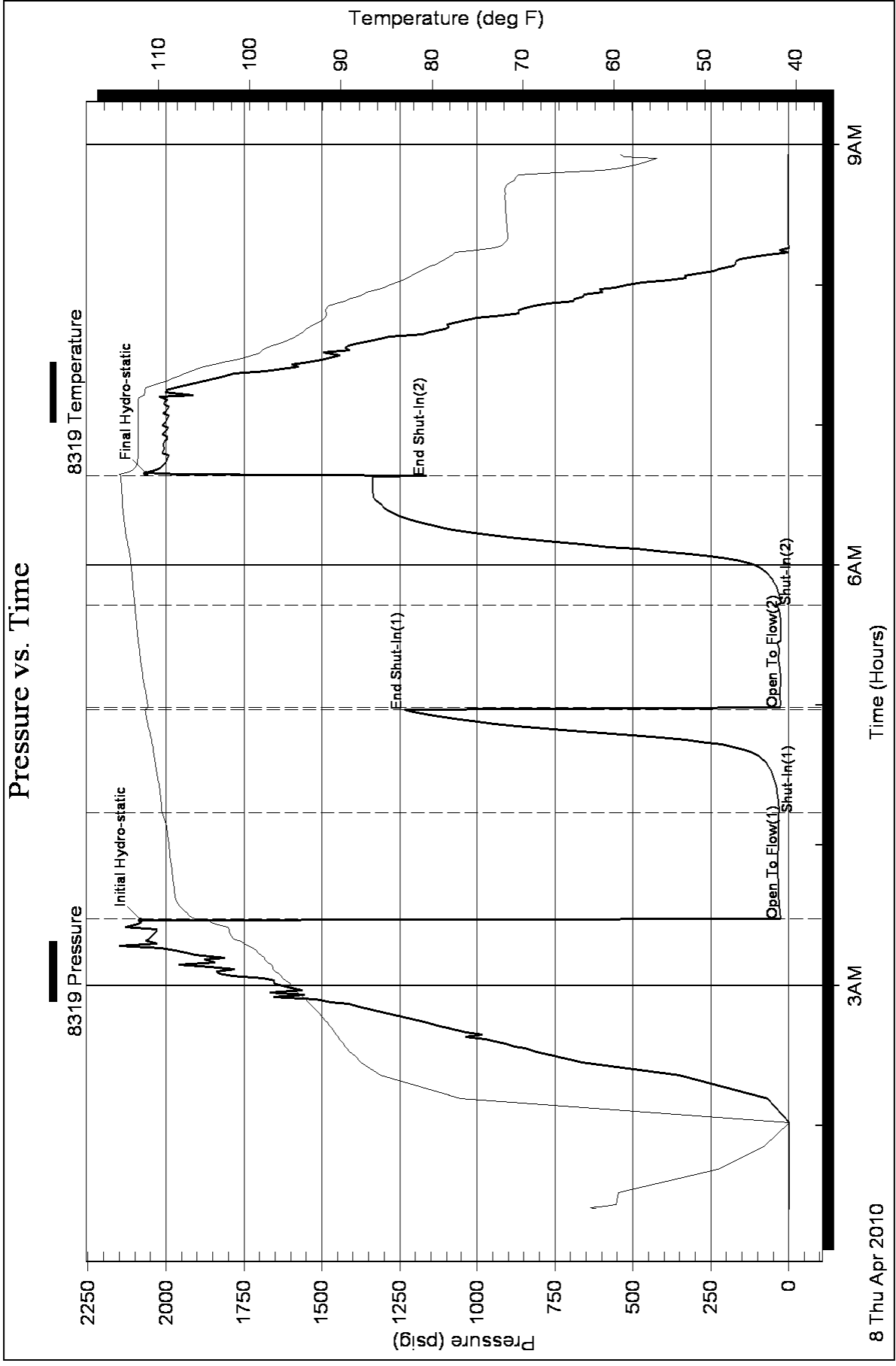
Num Gas Bombs: 0

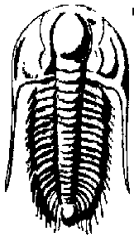
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

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67846 PO Box 399

ATTN: Jason Alm

Schniepp #2-31

Sec31Twp18sRge21w

Job Ticket: 38493

DST#: 3

Test Start: 2010.04.08 @ 16:27:29

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:32:59

Time Test Ended: 22:32:59

Test Type: Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 4219.00 ft (KB) To 4230.00 ft (KB) (TVD)

Reference Elevations: 2125.00 ft (KB)

Total Depth: 4162.00 ft (KB) (TVD)

2119.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8319 Inside

Press@RunDepth: 134.27 psig @ 4220.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.08

End Date:

2010.04.08

Last Calib.:

2010.04.08

Start Time: 16:27:34

End Time:

22:32:58

Time On Btm:

2010.04.08 @ 18:32:29

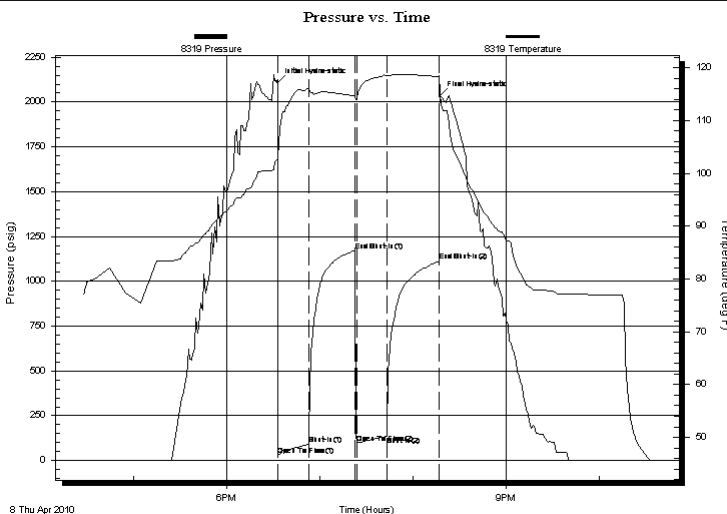
Time Off Btm:

2010.04.08 @ 20:17:29

TEST COMMENT: IFP-Strong blow BOB in 8 min
ISI-Weak blow back Built to 1 1/4 in died back to 1 in
FFP-Strong blow BOB in 11 min
FSI-Weak blow back built to 1 in

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.34	102.73	Initial Hydro-static
1	29.61	102.91	Open To Flow (1)
20	90.74	116.05	Shut-In(1)
50	1172.01	114.62	End Shut-In(1)
51	99.08	113.89	Open To Flow (2)
71	134.27	118.55	Shut-In(2)
104	1111.69	118.31	End Shut-In(2)
105	2036.87	115.21	Final Hydro-static

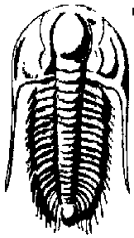


Recovery

Length (ft)	Description	Volume (bbl)
217.00	Clean Oil	1.91
62.00	MCGO25%M20%G55%O	0.87
62.00	HGOCWM10%G30%O10%W50%M	0.87
0.00	186 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Job Ticket: 38493

DST#: 3

ATTN: Jason Alm

Test Start: 2010.04.08 @ 16:27:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 10.39 in³

Resistivity: ohm.m

Salinity: 7400.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
217.00	Clean Oil	1.914
62.00	MCGO25%M20%G55%O	0.870
62.00	HGOCWM10%G30%O10%W50%M	0.870
0.00	186 GIP	0.000

Total Length: 341.00 ft

Total Volume: 3.654 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

