



DRILL STEM TEST REPORT

Prepared For: **H&C Oil, Operating, Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Seymour #25-1

25-15s-28w Gove,KS

Start Date: 2013.11.27 @ 16:45:00

End Date: 2013.11.27 @ 23:54:15

Job Ticket #: 54578 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.04 @ 11:06:28



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil, Operating, Inc.

25-15s-28w Gove, KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54578

DST#: 1

ATTN: Marc Downing

Test Start: 2013.11.27 @ 16:45:00

GENERAL INFORMATION:

Formation: **LKC " E "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:16:45

Time Test Ended: 23:54:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 3767.00 ft (KB) To 3788.00 ft (KB) (TVD)

Total Depth: 3788.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2474.00 ft (KB)

2463.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8675 Inside

Press@RunDepth: 29.32 psig @ 3768.00 ft (KB)

Start Date: 2013.11.27

End Date:

2013.11.27

Start Time: 16:45:15

End Time:

23:54:15

Capacity: 8000.00 psig

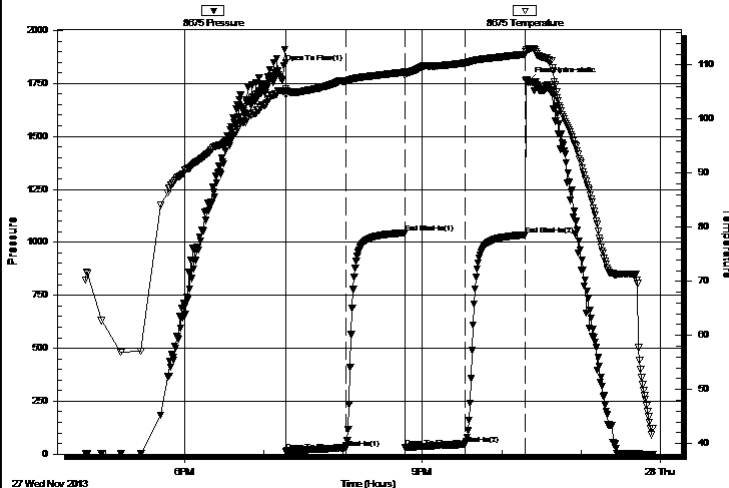
Last Calib.: 2013.11.27

Time On Btm:

Time Off Btm: 2013.11.27 @ 22:19:45

TEST COMMENT: Built to 2 1/2" blow
No return blow
Built to 1/4" blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1847.31	105.58	Open To Flow (1)
1	14.29	104.46	Open To Flow (2)
45	29.32	107.04	Shut-In(1)
90	1044.87	108.69	End Shut-In(1)
91	32.00	108.03	Open To Flow (3)
136	46.10	110.38	Shut-In(2)
181	1035.45	111.97	End Shut-In(2)
183	1757.02	112.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	100%Mud with oil scum on top	0.25

Gas Rates

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

DRILL STEM TEST REPORT

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54578

DST#: 1

ATTN: Marc Downing

Test Start: 2013.11.27 @ 16:45:00

GENERAL INFORMATION:

Formation: **LKC " E "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:16:45

Time Test Ended: 23:54:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 3767.00 ft (KB) To 3788.00 ft (KB) (TVD)

Total Depth: 3788.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2474.00 ft (KB)

2463.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 3768.00 ft (KB)

Start Date: 2013.11.27

End Date:

2013.11.27

Start Time: 16:45:15

End Time:

23:54:00

Capacity: 8000.00 psig

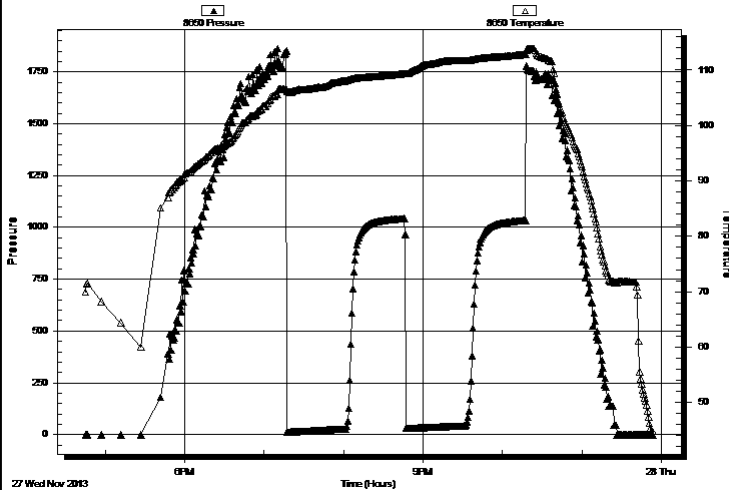
Last Calib.: 2013.11.28

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 2 1/2" blow
No return blow
Built to 1/4" blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
50.00	100%Mud with oil scum on top	0.25

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54578

DST#: 1

ATTN: Marc Downing

Test Start: 2013.11.27 @ 16:45:00

Tool Information

Drill Pipe:	Length:	3499.30 ft	Diameter:	3.80 inches	Volume:	49.09 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:	276.89 ft	Diameter:	2.25 inches	Volume:	1.36 bbl	Weight to Pull Loose:	71000.00 lb
					Total Volume:	50.45 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		29.19 ft					String Weight: Initial	61000.00 lb
Depth to Top Packer:		3767.00 ft					Final	61000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		21.00 ft						
Tool Length:		41.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3748.00	
Shut In Tool	5.00			3753.00	
Hydraulic tool	5.00			3758.00	
Packer	5.00			3763.00	20.00 Bottom Of Top Packer
Packer	4.00			3767.00	
Stubb	1.00			3768.00	
Recorder	0.00	8675	Inside	3768.00	
Recorder	0.00	8650	Outside	3768.00	
Perforations	17.00			3785.00	
Change Over Sub	0.00			3785.00	
Drill Pipe	0.00			3785.00	
Change Over Sub	0.00			3785.00	
Bullnose	3.00			3788.00	21.00 Bottom Packers & Anchor

Total Tool Length: 41.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54578

DST#: 1

ATTN: Marc Downing

Test Start: 2013.11.27 @ 16:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 1500.00 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
50.00	100%Mud w ith oil scum on top	0.246

Total Length: 50.00 ft

Total Volume: 0.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

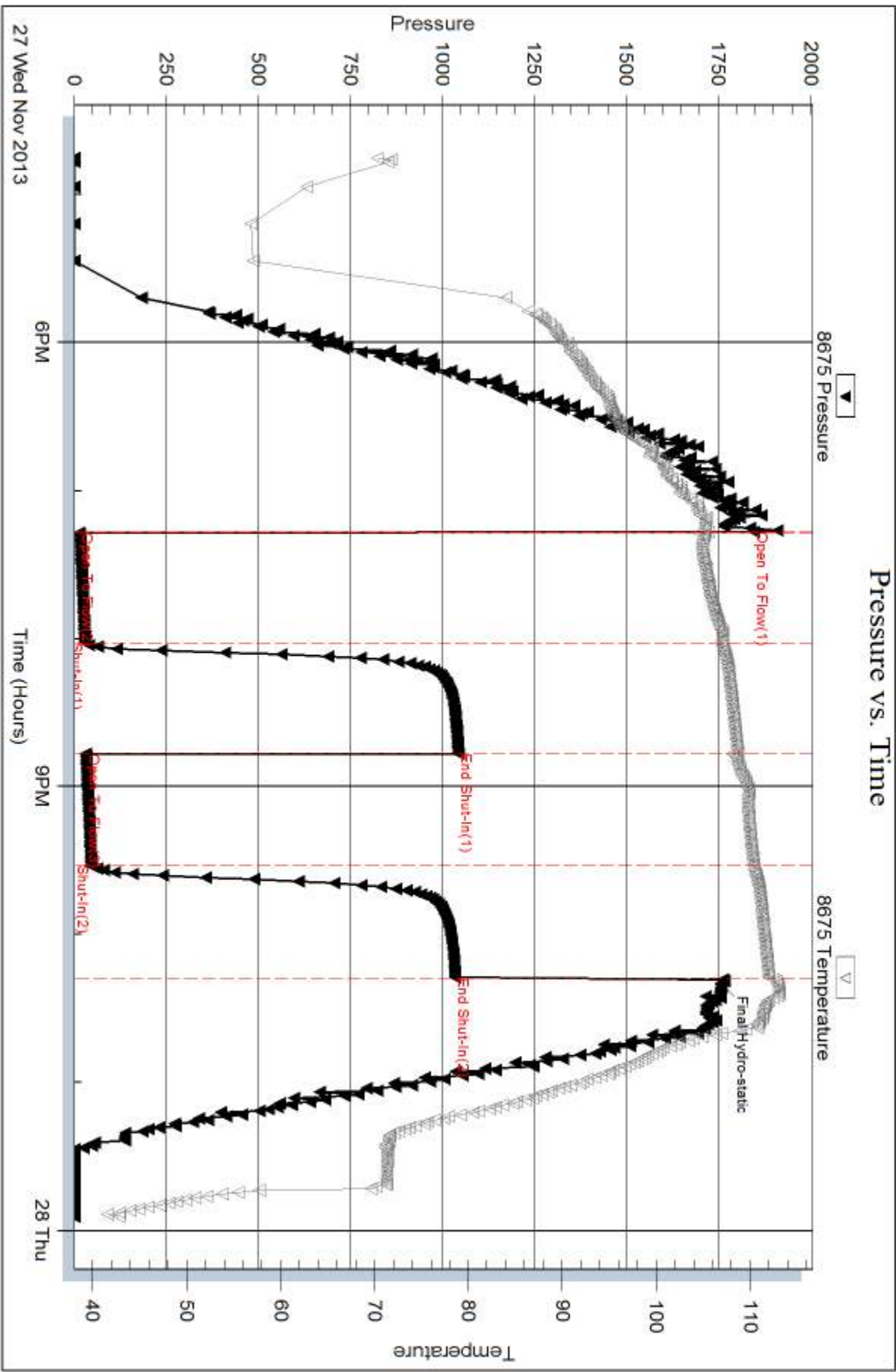
Serial #: 8675

Inside

H&C Oil, Operating, Inc.

Seymour #25-1

DST Test Number: 1

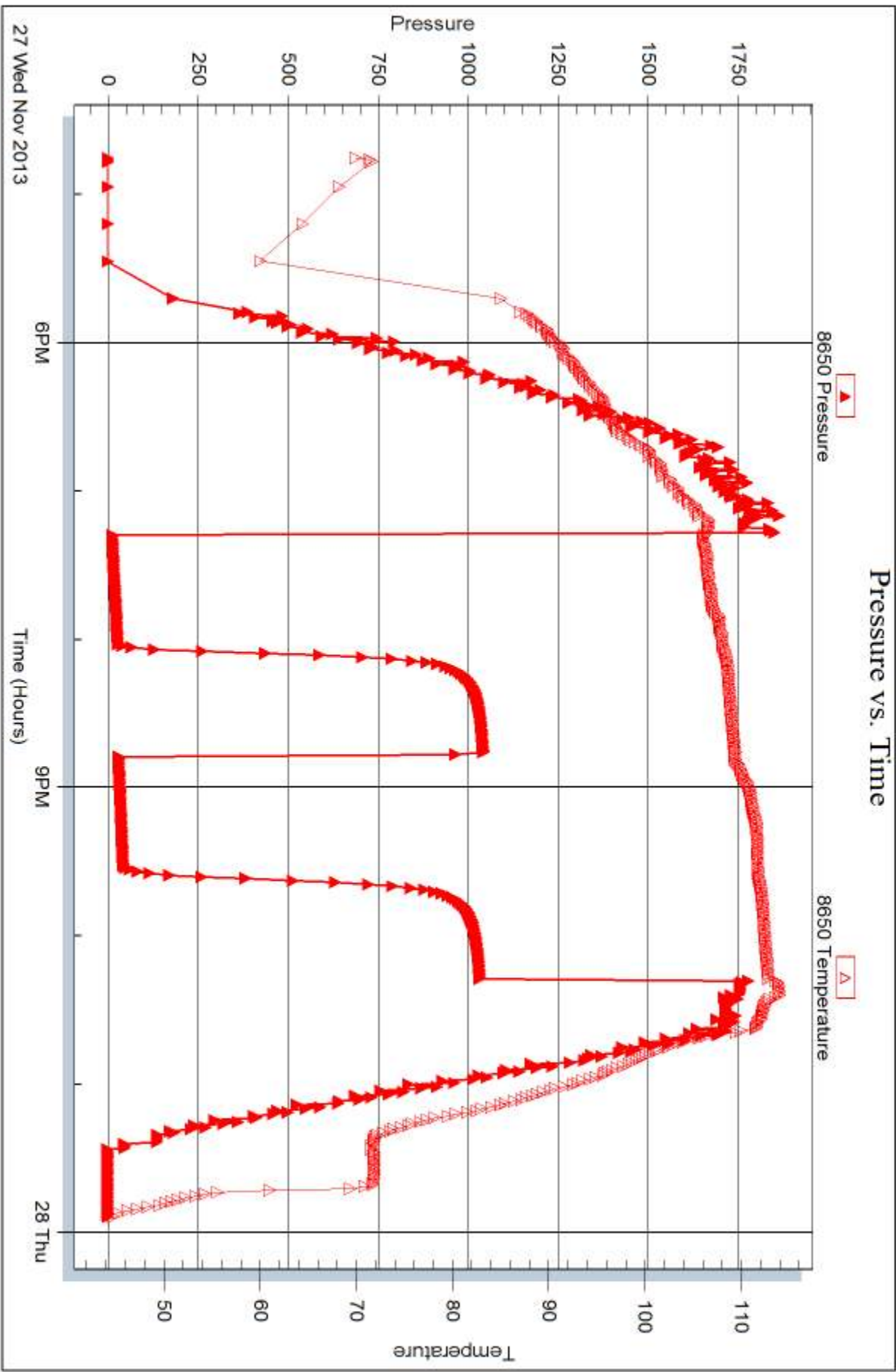


Serial #: 8650

Outside H&C Oil, Operating, Inc.

Seymour #25-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **H&C Oil, Operating, Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Seymour #25-1

25-15s-28w Gove,KS

Start Date: 2013.11.28 @ 06:34:00

End Date: 2013.11.28 @ 15:36:45

Job Ticket #: 54579 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.04 @ 11:05:57



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54579

DST#: 2

ATTN: Marc Downing

Test Start: 2013.11.28 @ 06:34:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:13:00

Time Test Ended: 15:36:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 3784.00 ft (KB) To 3803.00 ft (KB) (TVD)

Total Depth: 3803.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2474.00 ft (KB)

2463.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8675 Inside

Press@RunDepth: 1091.34 psig @ 3785.00 ft (KB)

Start Date: 2013.11.28

End Date:

2013.11.28

Start Time: 06:34:15

End Time:

15:36:45

Capacity: 8000.00 psig

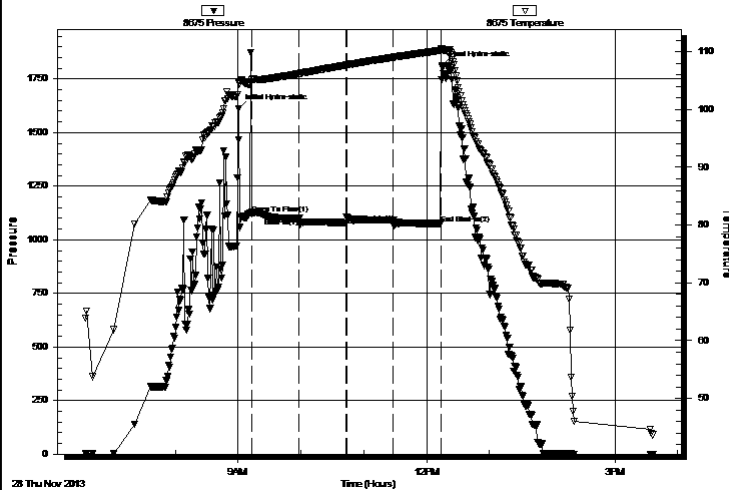
Last Calib.: 2013.11.28

Time On Btm: 2013.11.28 @ 09:00:45

Time Off Btm: 2013.11.28 @ 12:14:45

TEST COMMENT: Built to 3 1/2" blow
No return blow
Surface blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1611.21	104.69	Initial Hydro-static
13	1121.86	104.82	Open To Flow (1)
58	1099.96	106.23	Shut-In(1)
103	1080.09	107.69	End Shut-In(1)
103	1106.00	107.72	Open To Flow (2)
148	1091.34	109.03	Shut-In(2)
193	1076.00	110.22	End Shut-In(2)
194	1812.79	110.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2136.00	Mud	27.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54579

DST#: 2

ATTN: Marc Downing

Test Start: 2013.11.28 @ 06:34:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:13:00

Time Test Ended: 15:36:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 3784.00 ft (KB) To 3803.00 ft (KB) (TVD)

Total Depth: 3803.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2474.00 ft (KB)

2463.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 3785.00 ft (KB)

Start Date: 2013.11.28

End Date:

2013.11.28

Start Time: 06:34:15

End Time:

14:24:45

Capacity: 8000.00 psig

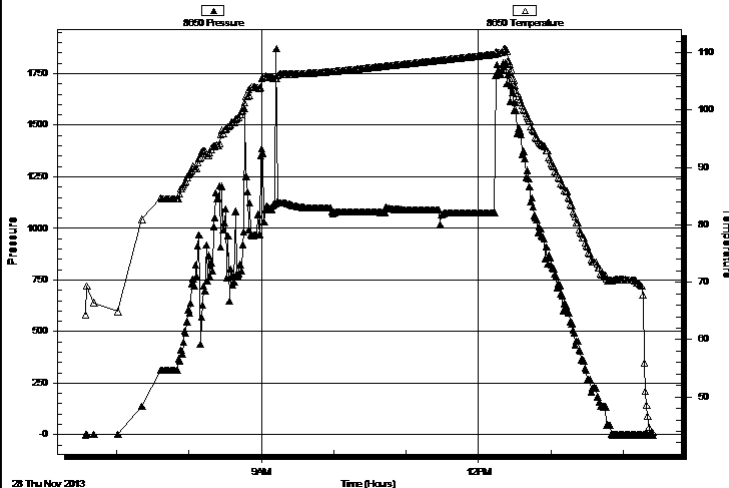
Last Calib.: 2013.11.28

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 3 1/2" blow
No return blow
Surface blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
2136.00	Mud	27.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54579

DST#: 2

ATTN: Marc Downing

Test Start: 2013.11.28 @ 06:34:00

Tool Information

Drill Pipe:	Length:	3498.58 ft	Diameter:	3.80 inches	Volume:	49.08 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:	276.89 ft	Diameter:	2.25 inches	Volume:	1.36 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	50.44 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		11.47 ft					String Weight: Initial	70000.00 lb
Depth to Top Packer:		3784.00 ft					Final	70000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		19.00 ft						
Tool Length:		39.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3765.00	
Shut In Tool	5.00			3770.00	
Hydraulic tool	5.00			3775.00	
Packer	5.00			3780.00	20.00 Bottom Of Top Packer
Packer	4.00			3784.00	
Stubb	1.00			3785.00	
Recorder	0.00	8675	Inside	3785.00	
Recorder	0.00	8650	Outside	3785.00	
Perforations	15.00			3800.00	
Change Over Sub	0.00			3800.00	
Drill Pipe	0.00			3800.00	
Change Over Sub	0.00			3800.00	
Bullnose	3.00			3803.00	19.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54579

DST#: 2

ATTN: Marc Downing

Test Start: 2013.11.28 @ 06:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 1500.00 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
2136.00	Mud	27.440

Total Length: 2136.00 ft Total Volume: 27.440 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Hit a bridge 23 stands off bottom, We set 10 to 15 thousands pounds went through, then the rest of the stands going in the hole was fine.

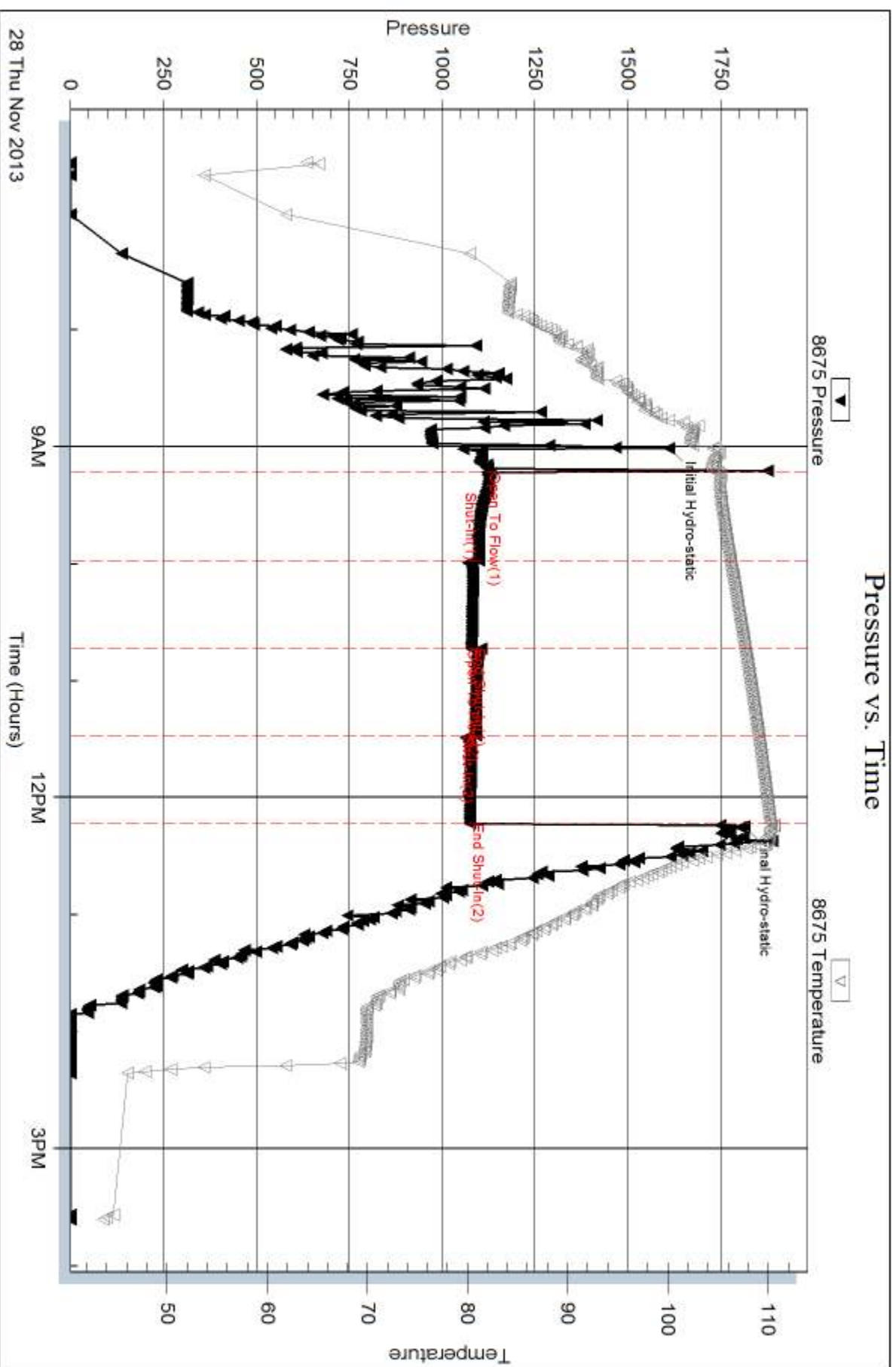
Serial #: 8675

Inside

H&C Oil, Operating, Inc.

Seymour #25-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54579

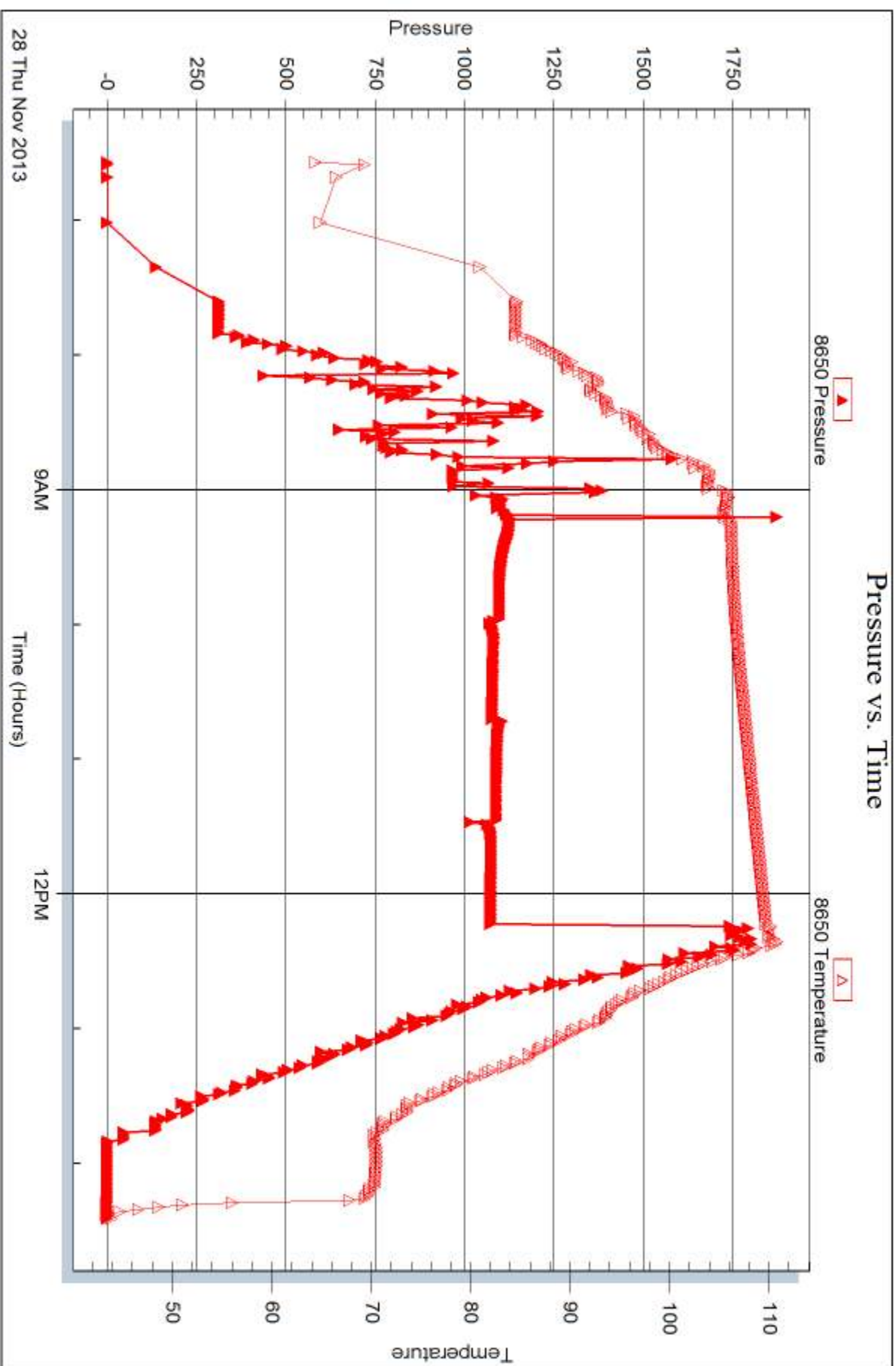
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Serial #: 8650

Outside H&C Oil, Operating, Inc.

Seymour #25-1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **H&C Oil, Operating, Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Seymour #25-1

25-15s-28w Gove,KS

Start Date: 2013.11.29 @ 13:30:00

End Date: 2013.11.29 @ 20:47:00

Job Ticket #: 54580 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.04 @ 11:05:21



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54580

DST#: 3

ATTN: Marc Downing

Test Start: 2013.11.29 @ 13:30:00

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:16:45

Time Test Ended: 20:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 3943.00 ft (KB) To 3974.00 ft (KB) (TVD)

Total Depth: 3974.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2474.00 ft (KB)

2463.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8675 Inside

Press@RunDepth: 513.02 psig @ 3944.00 ft (KB)

Start Date: 2013.11.29

End Date:

2013.11.29

Start Time: 13:30:15

End Time:

20:47:00

Capacity: 8000.00 psig

Last Calib.: 2013.11.29

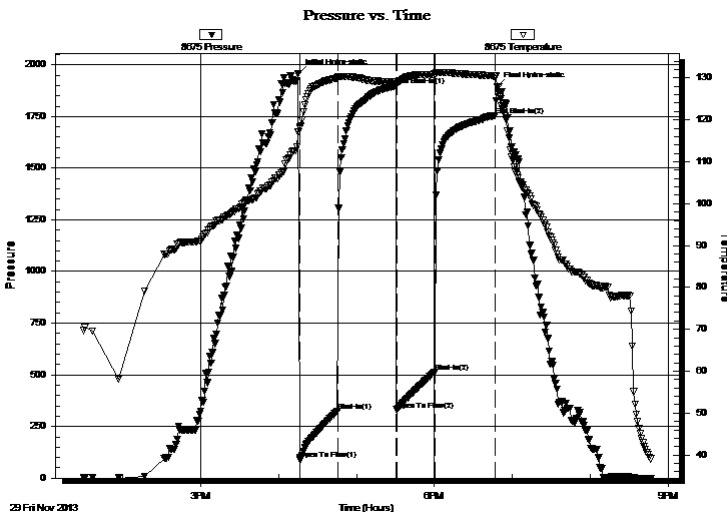
Time On Btm: 2013.11.29 @ 16:15:30

Time Off Btm: 2013.11.29 @ 18:48:00

TEST COMMENT: B.O.B in 4 min.
Bled off for 5 min. No return blow
B.O.B in 5 min.
Bled off for 5 min. No return blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1958.76	117.13	Initial Hydro-static
2	89.10	118.37	Open To Flow (1)
30	326.15	129.97	Shut-In(1)
75	1897.14	129.02	End Shut-In(1)
76	330.90	128.33	Open To Flow (2)
105	513.02	130.94	Shut-In(2)
152	1755.30	130.48	End Shut-In(2)
153	1896.21	127.84	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
751.00	100% Water	8.01
325.00	mcw 50%M 50%W	4.56

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54580

DST#: 3

ATTN: Marc Downing

Test Start: 2013.11.29 @ 13:30:00

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:16:45

Time Test Ended: 20:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 3943.00 ft (KB) To 3974.00 ft (KB) (TVD)

Total Depth: 3974.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2474.00 ft (KB)

2463.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 3944.00 ft (KB)

Start Date: 2013.11.29

End Date:

2013.11.29

Start Time: 13:30:00

End Time:

20:47:00

Capacity: 8000.00 psig

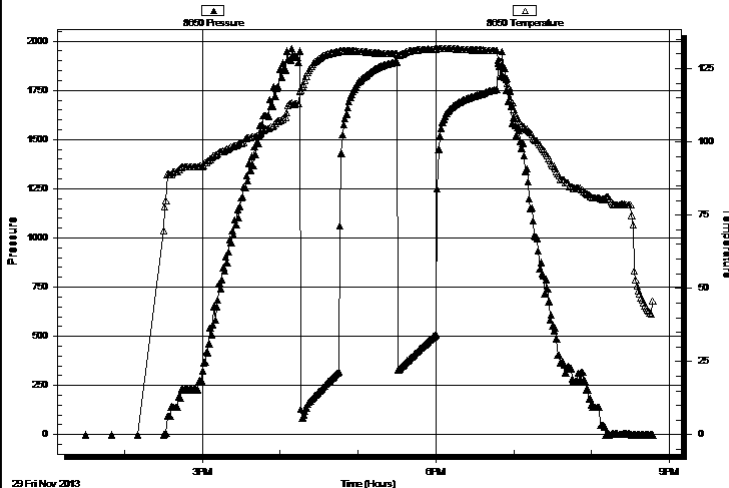
Last Calib.: 2013.11.29

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B in 4 min.
Bled off for 5 min. No return blow
B.O.B in 5 min.
Bled off for 5 min. No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
751.00	100% Water	8.01
325.00	mcw 50%M 50%W	4.56

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54580

DST#: 3

ATTN: Marc Downing

Test Start: 2013.11.29 @ 13:30:00

Tool Information

Drill Pipe:	Length:	3656.34 ft	Diameter:	3.80 inches	Volume:	51.29 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:	276.89 ft	Diameter:	2.25 inches	Volume:	1.36 bbl	Weight to Pull Loose:	74000.00 lb
					Total Volume:	52.65 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		10.23 ft					String Weight: Initial	62000.00 lb
Depth to Top Packer:		3943.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		31.00 ft						
Tool Length:		51.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3924.00	
Shut In Tool	5.00			3929.00	
Hydraulic tool	5.00			3934.00	
Packer	5.00			3939.00	20.00 Bottom Of Top Packer
Packer	4.00			3943.00	
Stubb	1.00			3944.00	
Recorder	0.00	8675	Inside	3944.00	
Recorder	0.00	8650	Outside	3944.00	
Perforations	27.00			3971.00	
Change Over Sub	0.00			3971.00	
Drill Pipe	0.00			3971.00	
Change Over Sub	0.00			3971.00	
Bullnose	3.00			3974.00	31.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54580

DST#: 3

ATTN: Marc Downing

Test Start: 2013.11.29 @ 13:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
751.00	100% Water	8.012
325.00	mcw 50%M 50%W	4.559

Total Length: 1076.00 ft Total Volume: 12.571 bbl

Num Fluid Samples: 0

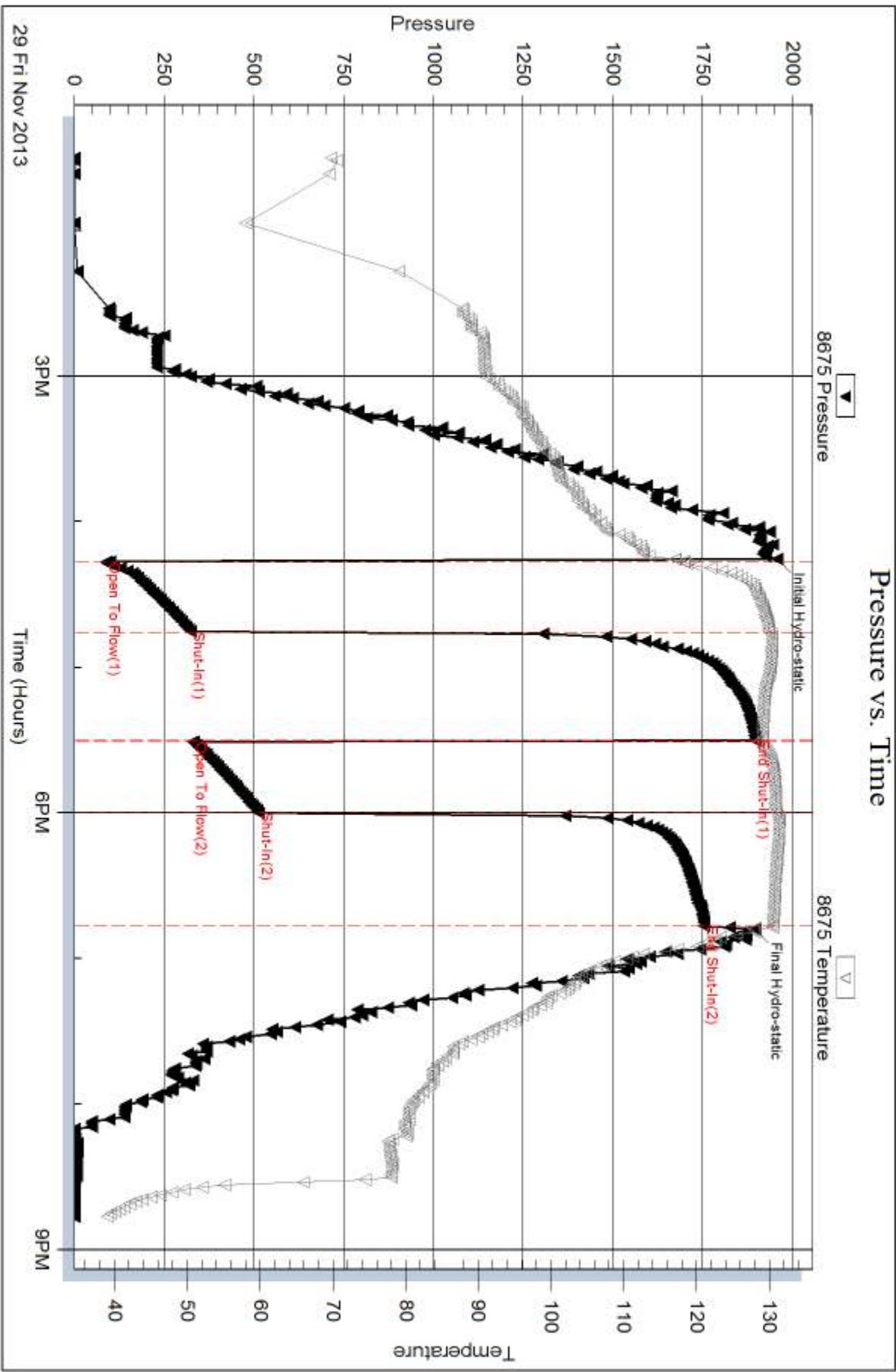
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .38 @ 40 F = 30,000

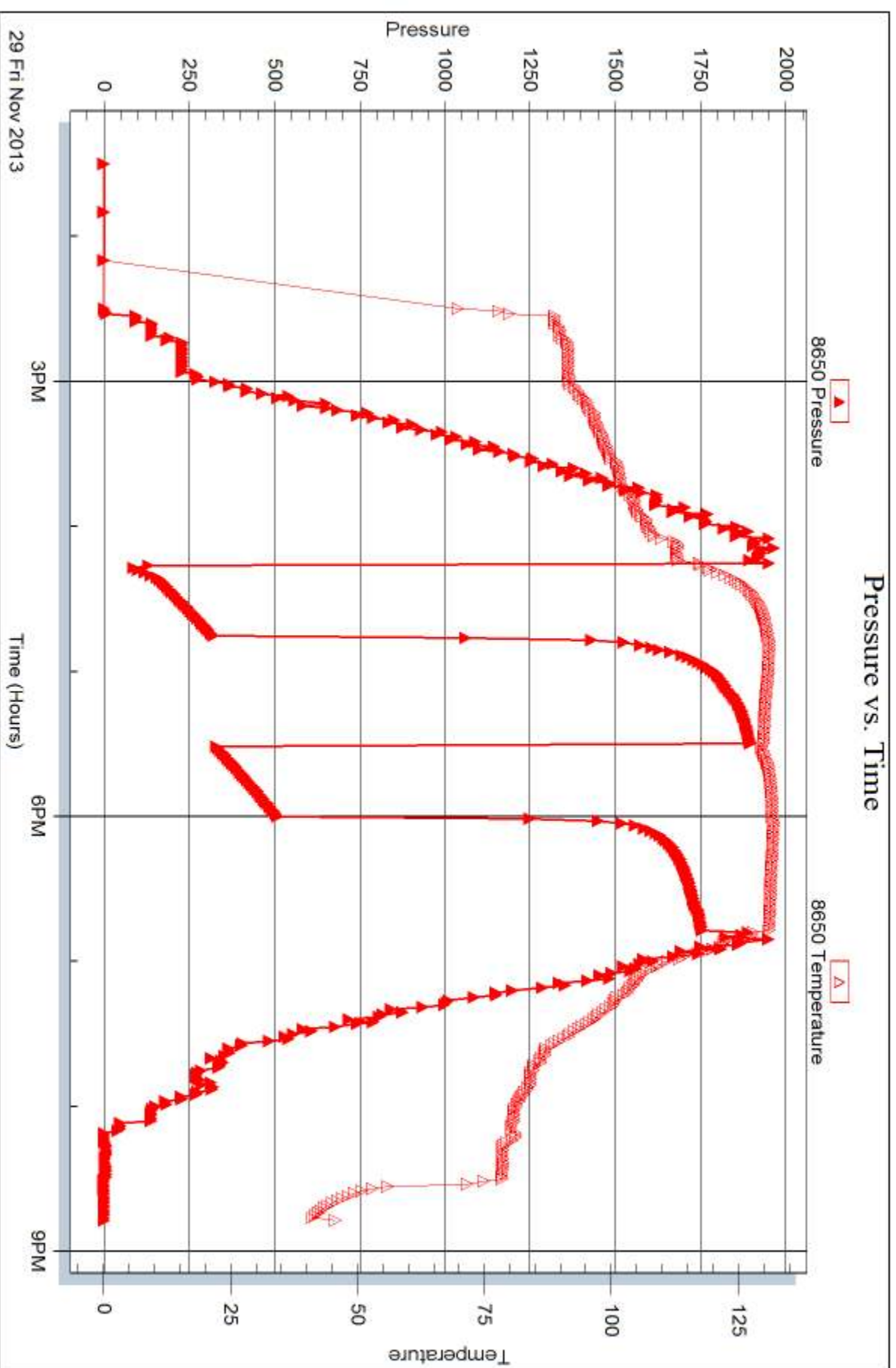


Serial #: 8650

Outside H&C Oil, Operating, Inc.

Seymour #25-1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **H&C Oil, Operating, Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Seymour #25-1

25-15s-28w Gove,KS

Start Date: 2013.11.29 @ 21:55:00

End Date: 2013.11.30 @ 04:36:00

Job Ticket #: 54581 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.04 @ 11:00:17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54581

DST#: 4

ATTN: Marc Downing

Test Start: 2013.11.29 @ 21:55:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:49:00

Time Test Ended: 04:36:00

Test Type: Conventional Straddle (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 3794.00 ft (KB) To 3798.00 ft (KB) (TVD)

Reference Elevations: 2474.00 ft (KB)

Total Depth: 3974.00 ft (KB) (TVD)

2463.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 8675 Inside

Press@RunDepth: 77.16 psig @ 3785.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.29

End Date:

2013.11.30

Last Calib.: 2013.11.30

Start Time: 21:55:15

End Time:

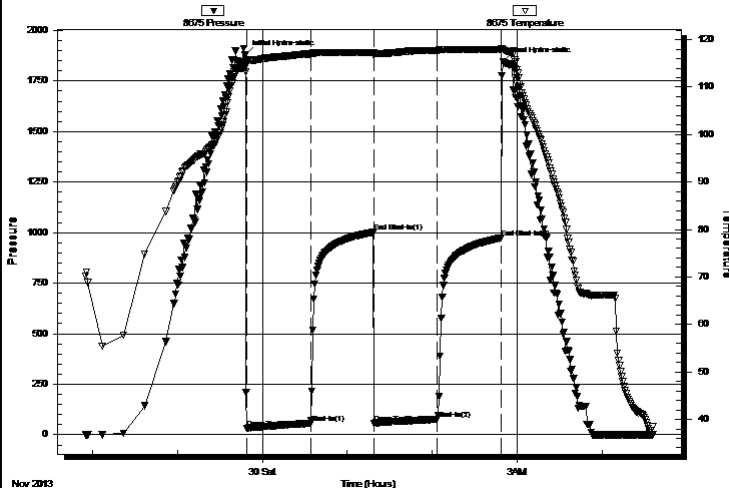
04:36:00

Time On Btm: 2013.11.29 @ 23:48:15

Time Off Btm: 2013.11.30 @ 02:50:00

TEST COMMENT: Built to 5" blow
No return blow
Built to 3/4" blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1882.08	114.34	Initial Hydro-static
1	32.00	115.32	Open To Flow (1)
46	57.17	116.98	Shut-In(1)
91	1002.21	117.31	End Shut-In(1)
91	58.37	116.66	Open To Flow (2)
136	77.16	117.72	Shut-In(2)
181	973.26	117.95	End Shut-In(2)
182	1846.44	117.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	100% Mud w with oiln spots	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54581

DST#: 4

ATTN: Marc Downing

Test Start: 2013.11.29 @ 21:55:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:49:00

Time Test Ended: 04:36:00

Test Type: Conventional Straddle (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 3794.00 ft (KB) To 3798.00 ft (KB) (TVD)

Total Depth: 3974.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2474.00 ft (KB)

2463.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 3785.00 ft (KB)

Start Date: 2013.11.29

End Date:

2013.11.30

Start Time: 21:55:15

End Time:

04:35:45

Capacity: 8000.00 psig

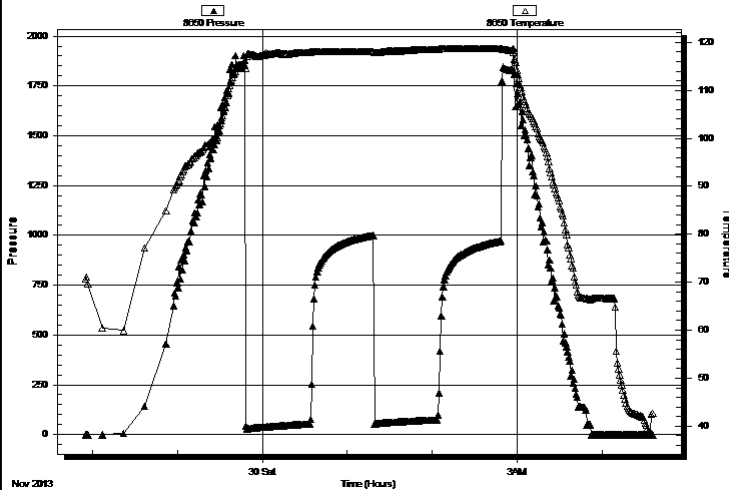
Last Calib.: 2013.11.30

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 5" blow
No return blow
Built to 3/4" blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
120.00	100% Mud w with oiln spots	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54581

DST#: 4

ATTN: Marc Downing

Test Start: 2013.11.29 @ 21:55:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:49:00

Time Test Ended: 04:36:00

Test Type: Conventional Straddle (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 3794.00 ft (KB) To 3798.00 ft (KB) (TVD)

Reference Elevations: 2474.00 ft (KB)

Total Depth: 3974.00 ft (KB) (TVD)

2463.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 6672 Below (Straddle)

Press@RunDepth: psig @ 3812.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.29

End Date:

2013.11.30

Last Calib.: 1899.12.30

Start Time: 21:55:01

End Time:

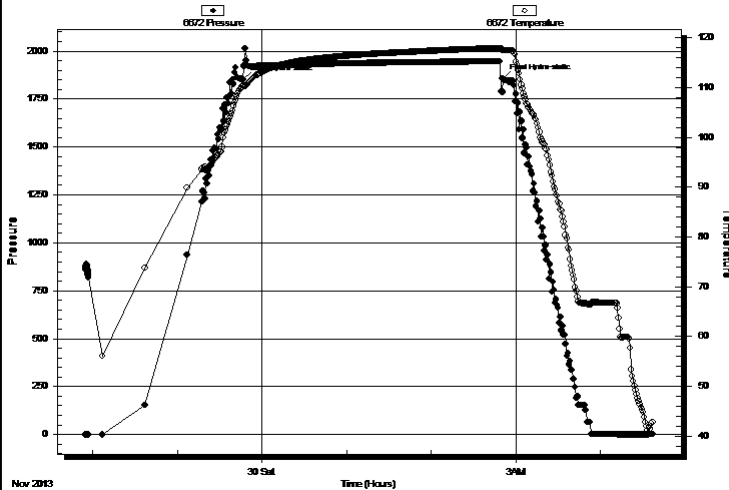
04:37:00

Time On Btm: 2013.11.29 @ 23:46:45

Time Off Btm: 2013.11.30 @ 02:50:45

TEST COMMENT: Built to 5" blow
No return blow
Built to 3/4" blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.65	110.31	Initial Hydro-static
184	1857.92	117.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	100% Mud w with oiln spots	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54581

DST#: 4

ATTN: Marc Downing

Test Start: 2013.11.29 @ 21:55:00

Tool Information

Drill Pipe:	Length: 3497.78 ft	Diameter: 3.80 inches	Volume: 49.06 bbl	Tool Weight:	2500.00 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: 276.89 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	50.42 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.67 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3784.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	3798.00 ft				
Interval between Packers:	14.00 ft				
Tool Length:	208.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3769.00	
Hydraulic tool	5.00			3774.00	
Packer	5.00			3779.00	20.00 Bottom Of Top Packer
Packer	5.00			3784.00	
Stubb	1.00			3785.00	
Recorder	0.00	8675	Inside	3785.00	
Recorder	0.00	8650	Outside	3785.00	
Perforations	12.00			3797.00	
Change Over Sub	0.00			3797.00	
drill Pipe	0.00			3797.00	
change Over Sub	0.00			3797.00	
Perforations	0.00			3797.00	
Blank Off Sub	1.00			3798.00	14.00 Tool Interval
Packer	3.00			3801.00	
Stubb	1.00			3802.00	
Perforations	9.00			3811.00	
Change Over Sub	1.00			3812.00	
Recorder	0.00	6672	Below	3812.00	
Drill Pipe	156.00			3968.00	
Change Over Sub	1.00			3969.00	
Bullnose	3.00			3972.00	174.00 Bottom Packers & Anchor

Total Tool Length: 208.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54581

DST#: 4

ATTN: Marc Downing

Test Start: 2013.11.29 @ 21:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 2000.00 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
120.00	100% Mud with oiln spots	0.590

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

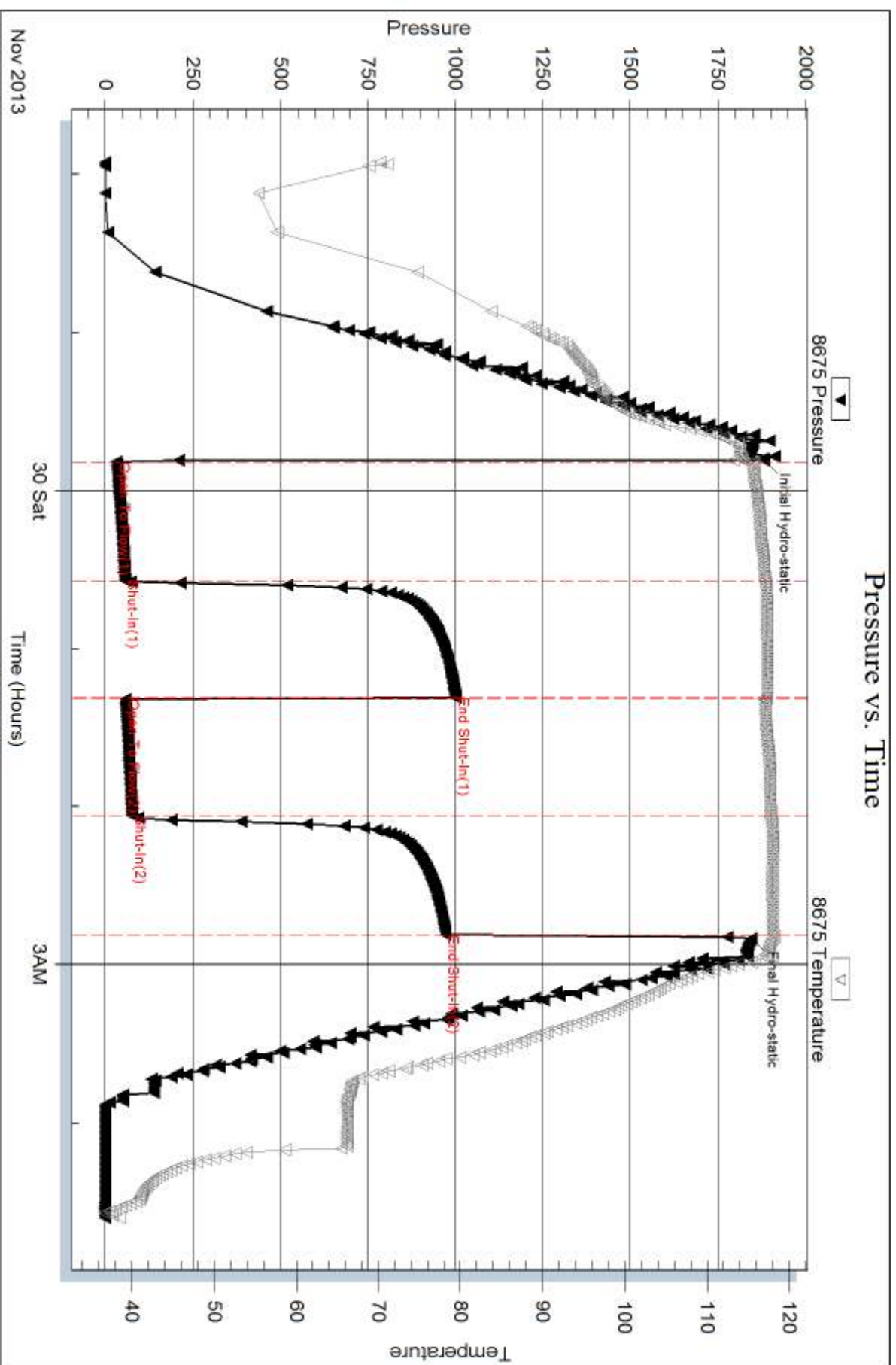
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

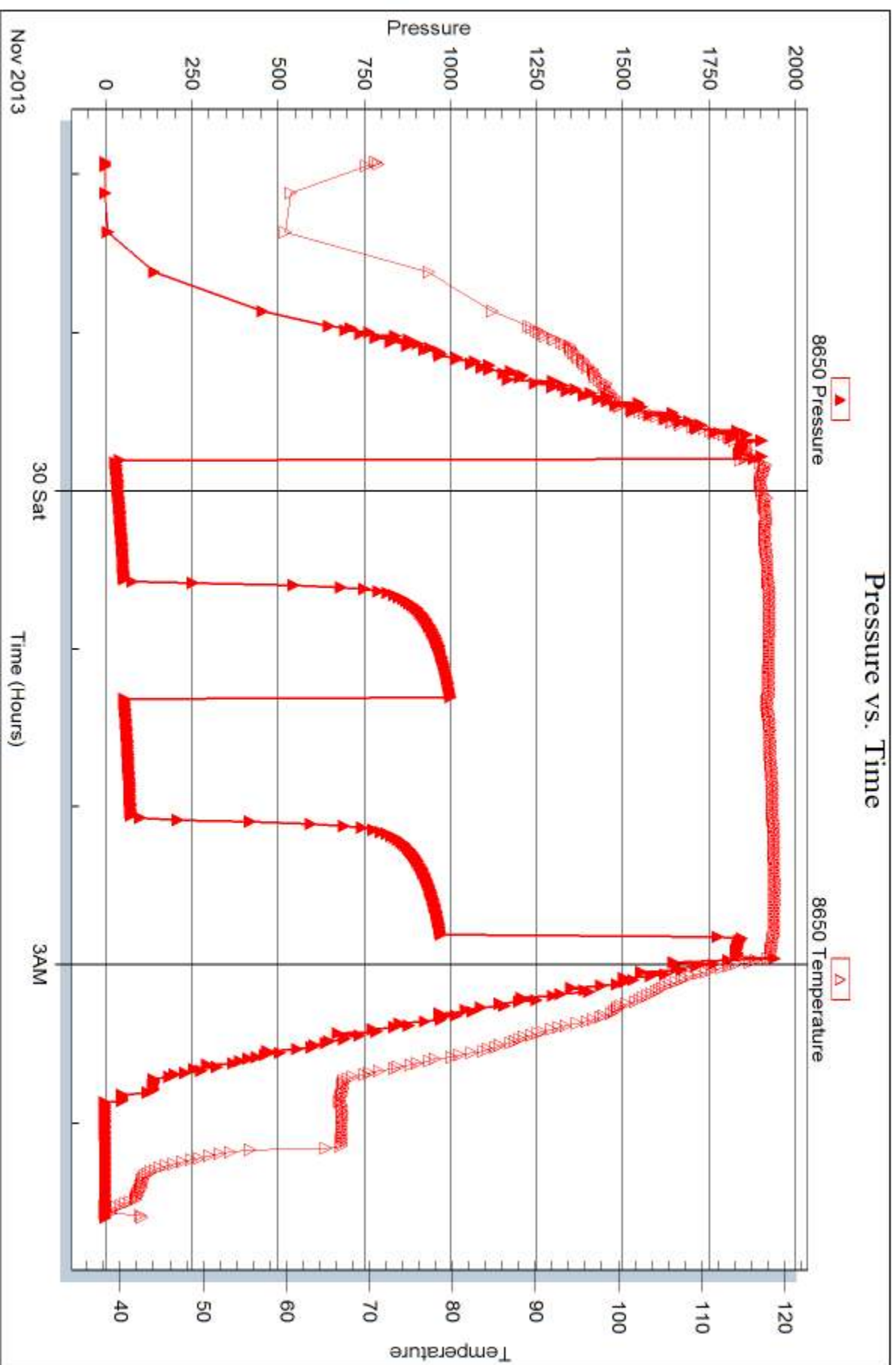


Serial #: 8650

Outside H&C Oil, Operating, Inc.

Seymour #25-1

DST Test Number: 4

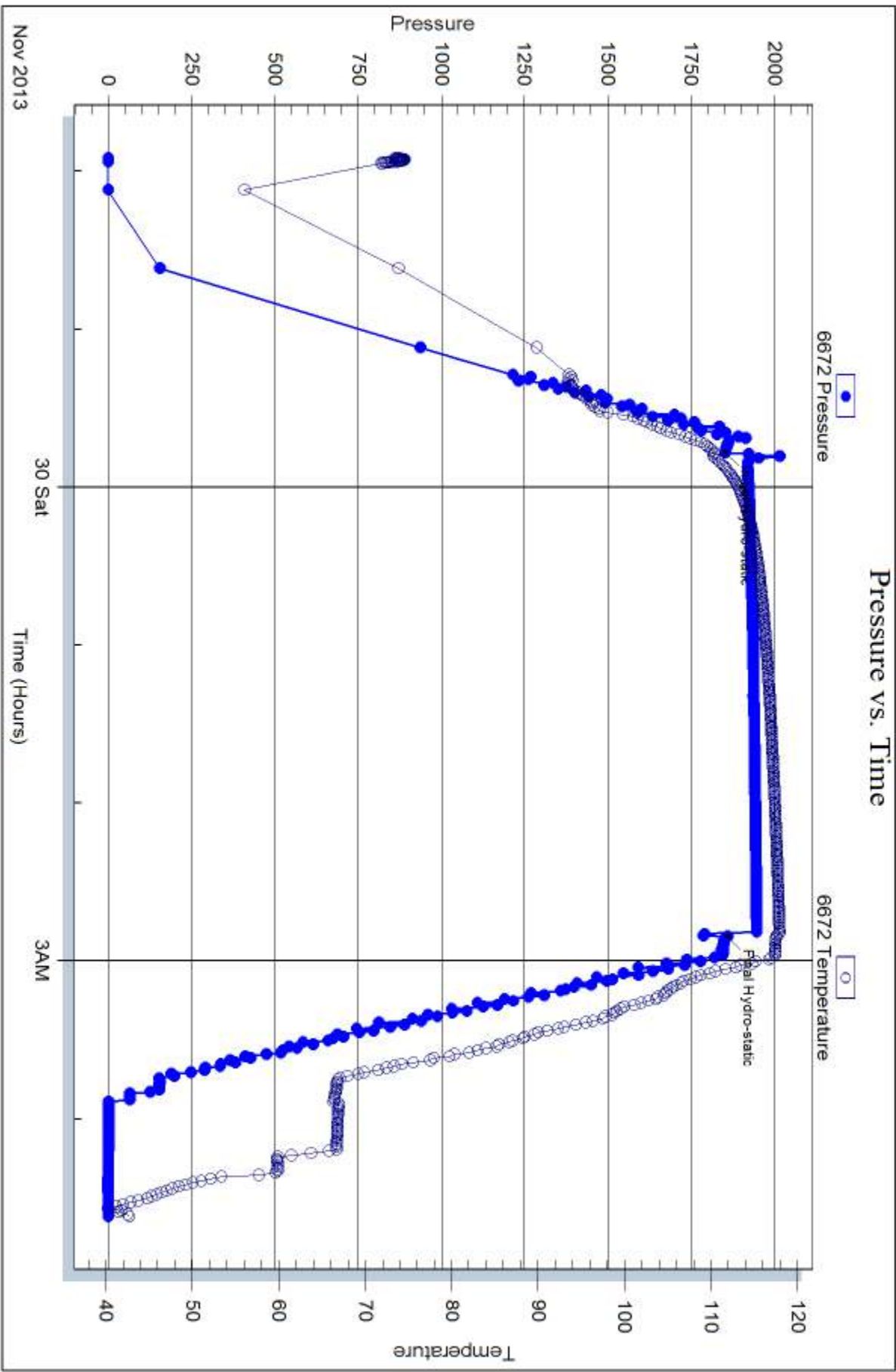


Serial #: 6672

Below (Stratton), Operating, Inc.

Seymour #25-1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **H&C Oil, Operating, Inc.**

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Seymour #25-1

25-15s-28w Gove,KS

Start Date: 2013.12.01 @ 04:15:00

End Date: 2013.12.01 @ 11:10:00

Job Ticket #: 54582 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.04 @ 10:53:20



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54582

DST#: 5

ATTN: Marc Downing

Test Start: 2013.12.01 @ 04:15:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:14:30

Time Test Ended: 11:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4133.00 ft (KB) To 4185.00 ft (KB) (TVD)

Reference Elevations: 2474.00 ft (KB)

Total Depth: 4185.00 ft (KB) (TVD)

2463.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 8675 Inside

Press@RunDepth: 20.53 psig @ 4134.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.01

End Date:

2013.12.01

Last Calib.: 2013.12.01

Start Time: 04:15:15

End Time:

11:10:00

Time On Btm: 2013.12.01 @ 06:14:15

Time Off Btm: 2013.12.01 @ 09:16:15

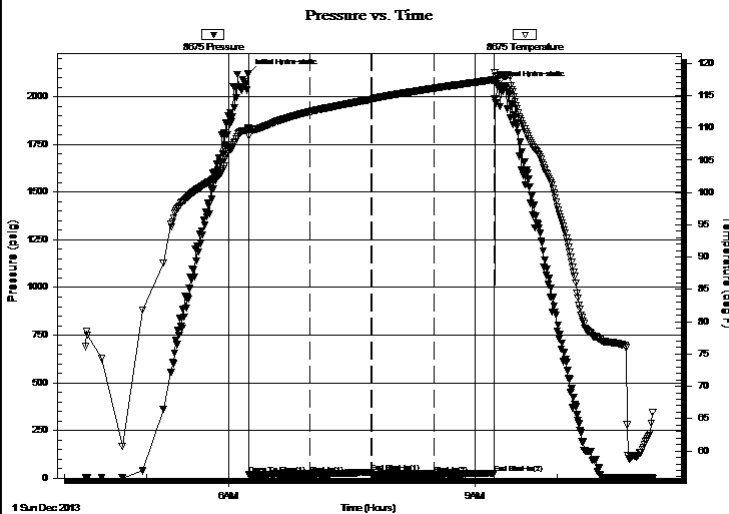
TEST COMMENT: Built to 1 1/2" blow, died to 3/4" blow

No return blow

No blow

No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.64	110.06	Initial Hydro-static
1	18.01	108.69	Open To Flow (1)
45	21.35	112.51	Shut-In(1)
90	30.86	114.41	End Shut-In(1)
91	20.25	114.42	Open To Flow (2)
136	20.53	116.13	Shut-In(2)
180	26.62	117.45	End Shut-In(2)
182	2057.08	118.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100% Mud	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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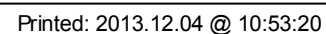
* Recovery from multiple tests



Test Start: 2013.12.01 @ 04:15:00

KB to GR/CF: 11.00 ft

No return blow





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54582

DST#: 5

ATTN: Marc Downing

Test Start: 2013.12.01 @ 04:15:00

Tool Information

Drill Pipe:	Length:	3844.58 ft	Diameter:	3.80 inches	Volume:	53.93 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:	276.89 ft	Diameter:	2.25 inches	Volume:	1.36 bbl	Weight to Pull Loose:	72000.00 lb
					Total Volume:	55.29 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		8.47 ft					String Weight: Initial	62000.00 lb
Depth to Top Packer:		4133.00 ft					Final	62000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		52.00 ft						
Tool Length:		72.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4114.00	
Shut In Tool	5.00			4119.00	
Hydraulic tool	5.00			4124.00	
Packer	5.00			4129.00	20.00 Bottom Of Top Packer
Packer	4.00			4133.00	
Stubb	1.00			4134.00	
Recorder	0.00	8675	Inside	4134.00	
Recorder	0.00	8650	Outside	4134.00	
Perforations	15.00			4149.00	
Change Over Sub	1.00			4150.00	
Drill Pipe	31.00			4181.00	
Change Over Sub	1.00			4182.00	
Bullnose	3.00			4185.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil, Operating, Inc.

25-15s-28w Gove,KS

PO Box 86
Plainville KS 67663

Seymour #25-1

Job Ticket: 54582

DST#: 5

ATTN: Marc Downing

Test Start: 2013.12.01 @ 04:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 2500.00 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
30.00	100% Mud	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

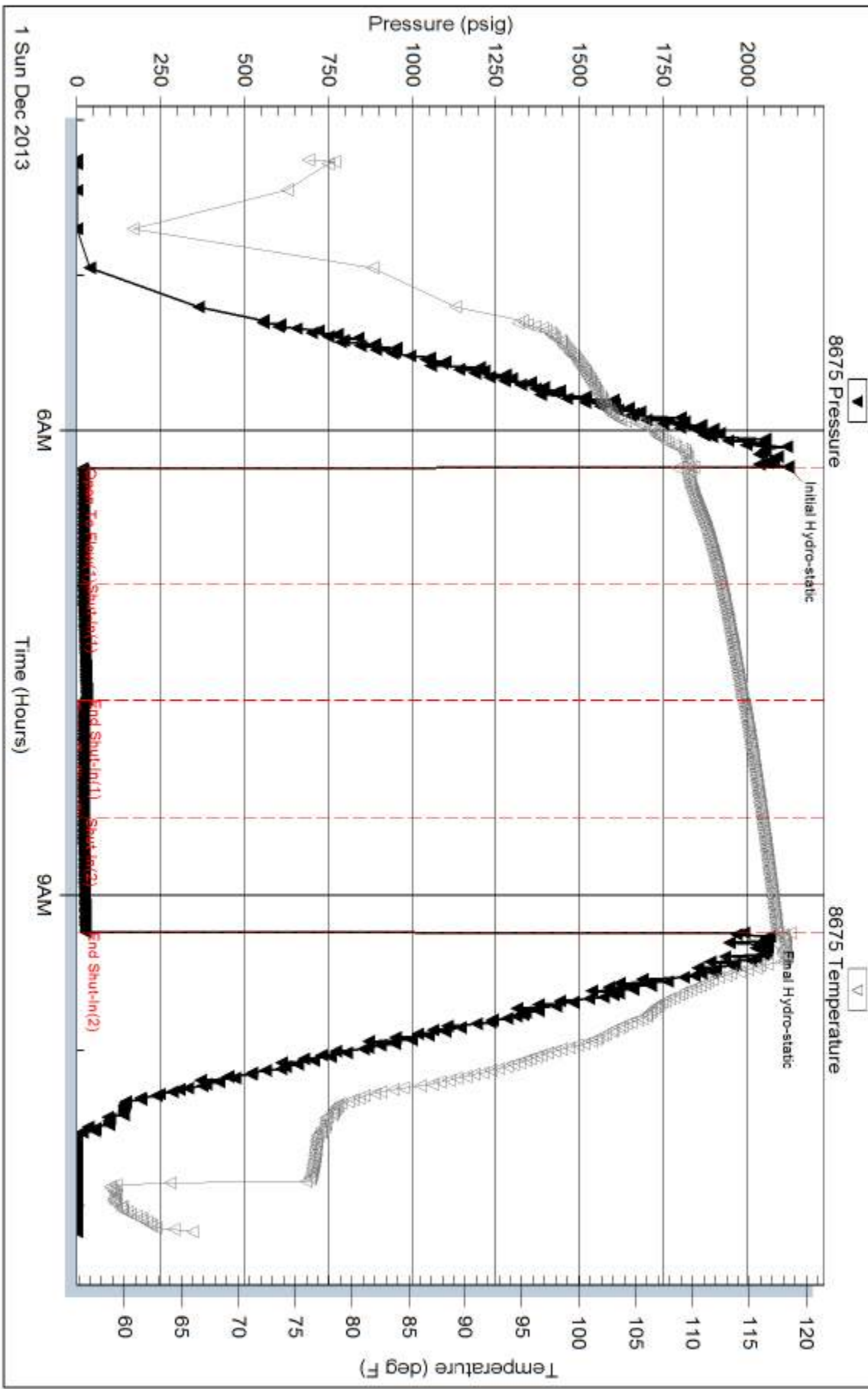
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

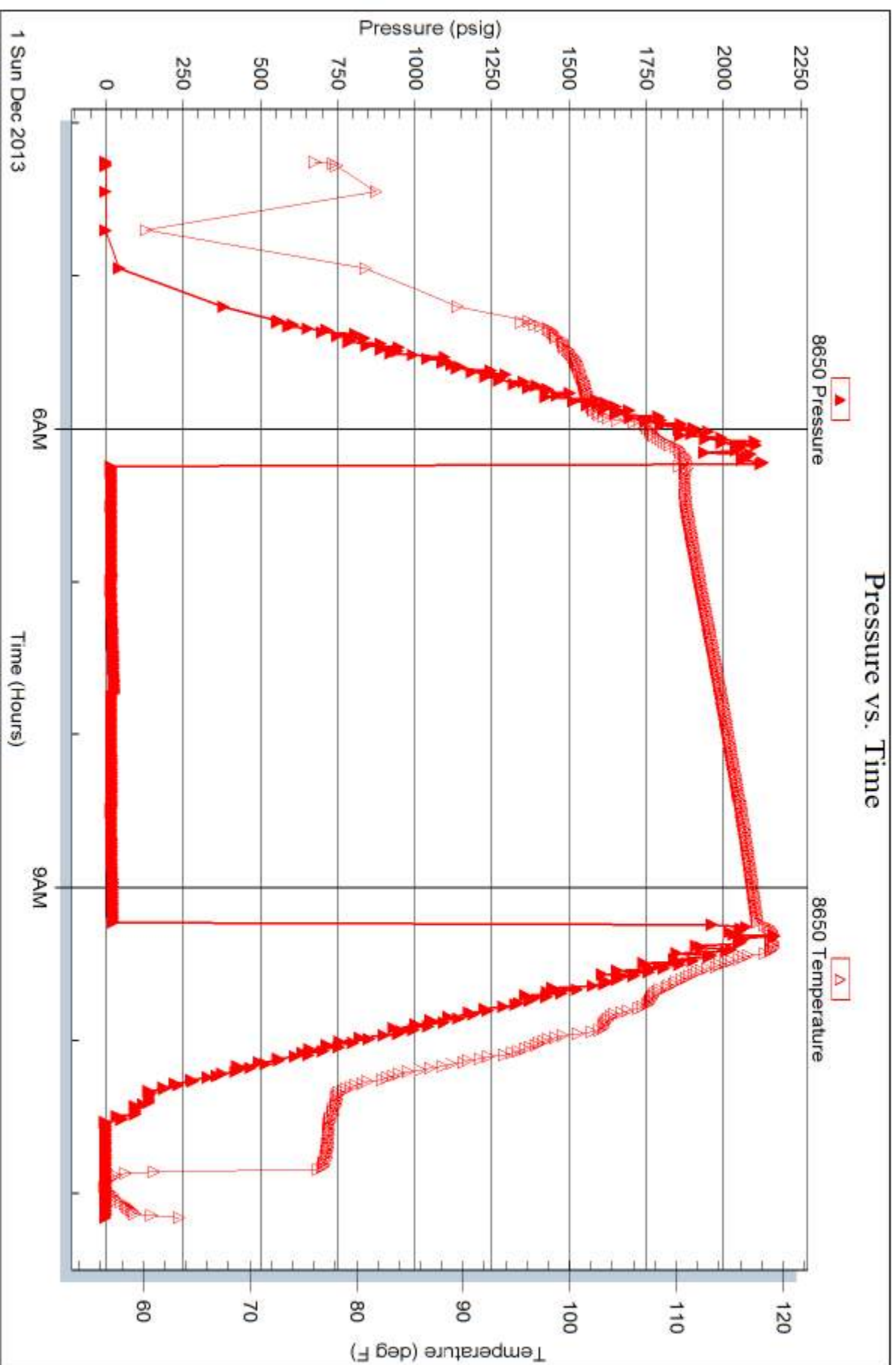


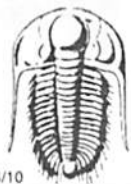
Serial #: 8650

Outside H&C Oil, Operating, Inc.

Seymour #25-1

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54578

Well Name & No. Seymour # 25-1 Test No. 1 Date 11/27/13
 Company H & C Oil Operating, Inc Elevation 2474 KB 2463 GL
 Address Plainville, Kansas 67663, PO Box 86
 Co. Rep / Geo. Marc Downing Rig H2 Drilling Rig 1
 Location: Sec. 25 Twp. 15S Rge. 28W Co. Cove Co. State KS

Interval Tested 3767-3788 Zone Tested Lansing "E" Zone
 Anchor Length 21 Drill Pipe Run 3499.30 Mud Wt. 8.9
 Top Packer Depth 3763 Drill Collars Run 276.89 Vis 51
 Bottom Packer Depth 3762 Wt. Pipe Run WL 8.0
 Total Depth 3788 Chlorides 1500 ppm System LCM 1.5 #

Blow Description Built to 2 1/2" below
No return below
Built to 1/4" below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>Mud with oil scum on top</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50 BHT 110 Gravity API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 1,847 ☒ Test 1150 T-On Location 4:15
 (B) First Initial Flow 14 ☐ Jars T-Started 16:45
 (C) First Final Flow 29 ☐ Safety Joint T-Open 19:17
 (D) Initial Shut-In 1,045 ☒ Circ Sub N/C T-Pulled 22:17
 (E) Second Initial Flow 32 ☒ Hourly Standby 1 T-Out 23:54
 (F) Second Final Flow 46 ☒ Mileage 100 RT 155 Comments over the 9
 (G) Final Shut-In 1,035 ☐ Sampler hours
 (H) Final Hydrostatic 1,757 ☐ Straddle
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45
☒ Accessibility 150
 Sub Total 1455
 Sub Total 1455
 Total 1455
 MP/DST Disc't ☒

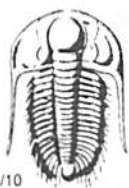
Approved By Our Representative
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Test Ticket

NO. 54579

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54580

Well Name & No. Baymour #25-1 Test No. 3 Date 11/29/13
 Company H+C Oil Operating, Inc. Elevation 2474 KB 2463 GL
 Address PO Box 86, Plainville MS, 67663
 Co. Rep / Geo. Marc Downing Rig 42 Drilling Rig 1
 Location: Sec. 25 Twp. 15S Rge. 28W Co. Cove Co. State MS

Interval Tested 3943-3974 Zone Tested Lansing "K" Zone
 Anchor Length 31 Drill Pipe Run 3656.34 Mud Wt. 9.1
 Top Packer Depth 3939 Drill Collars Run 216.89 Vis 53
 Bottom Packer Depth 3943 Wt. Pipe Run WL 8.8
 Total Depth 3974 Chlorides 3,000 ppm System LCM 1#

Blow Description B.O.B. in 4 min.
Bled off for 5 min. No return below.
B.O.B. in 5 min.
Bled off for 5 min. No return below

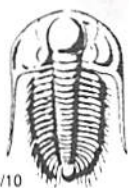
Rec	Feet of	%gas	%oil	%water	%mud
325	mcw			50	50
751	water			100	

Rec Total 1076 BHT 129 Gravity API RW 38 @ 40 °F Chlorides 30,000 ppm
 (A) Initial Hydrostatic 1,959 ☒ Test 1150 T-On Location 12:50
 (B) First Initial Flow 89 ☐ Jars T-Started 13:30
 (C) First Final Flow 326 ☐ Safety Joint T-Open 16:16
 (D) Initial Shut-In 1,897 ☒ Circ Sub N/C T-Pulled 18:46
 (E) Second Initial Flow 331 ☒ Hourly Standby 1 hour last night T-Out 20:47
 (F) Second Final Flow 513 ☒ Mileage 100 RT x 2 310 Comments drove out here
 (G) Final Shut-In 1,755 ☐ Sampler and rig drill 20 feet when
 (H) Final Hydrostatic 1,896 ☐ Straddle not to 50 couldnt test the "F"
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45
☐ Extra Recorder Sub Total 0
☐ Day Standby Total 1610
☒ Accessibility 150 MP/DST Disc't ☒
 Sub Total 1610

Approved By Our Representative

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54581**

Well Name & No. Seymour #25-1 Test No. 4 Date 11/29/13 11/30/13
Company H+C Oil Operating, Inc Elevation 2474 KB 2463 GL
Address PO Box 86, Plainville KS, 67663
Co. Rep / Geo. Marc Downing Rig H2 Rig 1
Location: Sec. 25 Twp. 15S Rge. 28W Co. Cove Co State KS

Interval Tested 3974 3784-3798 Zone Tested Lansing "F" Zone
Anchor Length 14 Drill Pipe Run 3497.78 Mud Wt. 9.2
Top Packer Depth 3780 Drill Collars Run 276.89 Vis 54
Bottom Packer Depth 3784 Wt. Pipe Run WL 8.0
Total Depth 3974 3798 Chlorides 2,000 ppm System LCM 2#

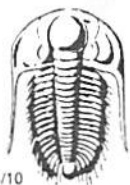
Blow Description Built to 5" below
Bled off log 3 min. No return below
Built to 3/4" below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Mud with oil spots</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 120 BHT 117 Gravity API RW @ °F Chlorides ppm
(A) Initial Hydrostatic 1,882 ☒ Test 1150 T-On Location 21:25
(B) First Initial Flow 32 ☐ Jars T-Started 21:55
(C) First Final Flow 57 ☐ Safety Joint T-Open 23:48
(D) Initial Shut-In 1,002 ☒ Circ Sub N/C T-Pulled 12:48
(E) Second Initial Flow 58 ☐ Hourly Standby T-Out 04:36
(F) Second Final Flow 77 ☒ Mileage 100 155 Comments
(G) Final Shut-In 973 ☐ Sampler
(H) Final Hydrostatic 1,846 ☒ Straddle 600 ☐ Ruined Shale Packer
☒ Shale Packer Shuddleracker ☐ Ruined Packer

Initial Open 45 ☐ Extra Packer ☐ Extra Copies
Initial Shut-In 45 ☐ Extra Recorder Sub Total 0
Final Flow 45 ☐ Day Standby Total 2055
Final Shut-In 45 ☒ Accessibility 150 MP/DST Disc't
Sub Total 2055

Approved By Our Representative
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54582

Well Name & No. Seymour 25-1 Test No. 5 Date 12/1/13
 Company H+C Oil Operating Inc Elevation 2474 KB 2463 GL
 Address PO Box 816, Plainville KS, 67663
 Co. Rep / Geo. Marc Downing Rig H2 Drilling Rig 4
 Location: Sec. 25 Twp. 18S Rge. 28W Co. Leone Co State KS

Interval Tested 4133-4185 Zone Tested Myric Station
 Anchor Length 52 Drill Pipe Run 3844.58 Mud Wt. 9.1
 Top Packer Depth 4129 Drill Collars Run 276.89 Vis 52
 Bottom Packer Depth 4133 Wt. Pipe Run WL 8.8
 Total Depth 4185 Chlorides 2,500 ppm System LCM 1.5 #
 Blow Description Built to 1 1/2", died to 3/4" below.
No return below
No below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
30	Mud ran spot of oil in tool			100	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 117 Gravity API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2,124 ☒ Test 1250 T-On Location 00:45
 (B) First Initial Flow 18 ☐ Jars T-Started 04:15
 (C) First Final Flow 21 ☐ Safety Joint T-Open 06:15
 (D) Initial Shut-In 31 ☒ Circ Sub N/C T-Pulled 09:15
 (E) Second Initial Flow 20 ☒ Hourly Standby 3 hours .5h 50 T-Out 11:10
 (F) Second Final Flow 21 ☒ Mileage 100 X 2 310 Comments Had to short trip when I got here. That way has the standby
 (G) Final Shut-In 27 ☐ Sampler ☐ Ruined Shale Packer
 (H) Final Hydrostatic 2,057 ☐ Shallow waiting order to load of shale ☐ Ruined Packer

Initial Open 45 ☐ Extra Packer ☐ Extra Copies
 Initial Shut-In 45 ☐ Extra Recorder Sub Total 0
 Final Flow 45 ☒ Day Standby Loaded tools 12/2/13 Total 1760
 Final Shut-In 45 ☒ Accessibility 150 @ 11:30 MP/DST Disc't
 Sub Total 1760

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