



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Charles R Ramsay

North Fork #36-1

36-9s-25w Graham,KS

Start Date: 2012.12.05 @ 12:18:34

End Date: 2012.12.05 @ 18:22:04

Job Ticket #: 44324 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.10 @ 10:52:16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

Job Ticket: 44324

DST#: 1

ATTN: Charles R Ramsay

Test Start: 2012.12.05 @ 12:18:34

GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:19:04

Time Test Ended: 18:22:04

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 3852.00 ft (KB) To 3900.00 ft (KB) (TVD)

Reference Elevations: 2535.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

2529.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8321

Inside

Press @ Run Depth: 371.34 psig @ 3888.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.05

End Date:

2012.12.05

Last Calib.:

2012.12.05

Start Time: 12:18:35

End Time:

18:22:04

Time On Btm:

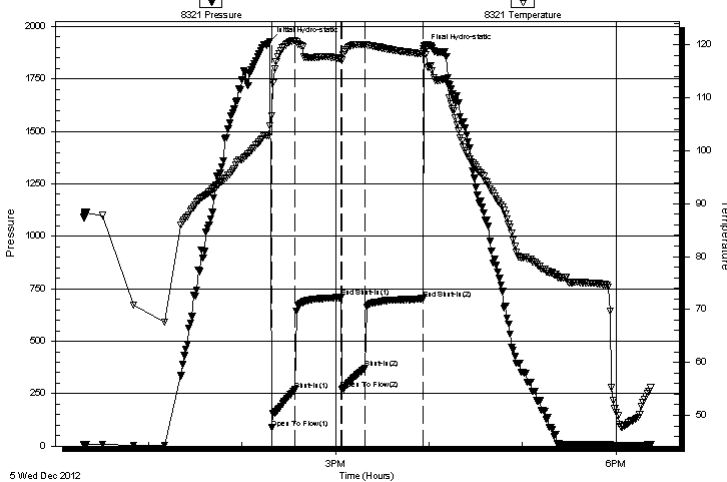
2012.12.05 @ 14:18:04

Time Off Btm:

2012.12.05 @ 15:56:34

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
ISI-Weak surface blow back
FFP-Good blow BOB in 5 min
FSI-Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1929.29	104.74	Initial Hydro-static
1	87.60	106.63	Open To Flow (1)
16	268.55	120.84	Shut-In(1)
46	708.45	117.38	End Shut-In(1)
46	272.11	117.09	Open To Flow (2)
61	371.34	119.99	Shut-In(2)
98	702.94	118.28	End Shut-In(2)
99	1895.60	118.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
558.00	MW 20%M 80%W	7.83
155.00	WM with oil spots 25%W 75%M	2.17

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663
ATTN: Charles R Ramsay

36-9s-25w Graham,KS
North Fork #36-1
Job Ticket: 44324 **DST#: 1**
Test Start: 2012.12.05 @ 12:18:34

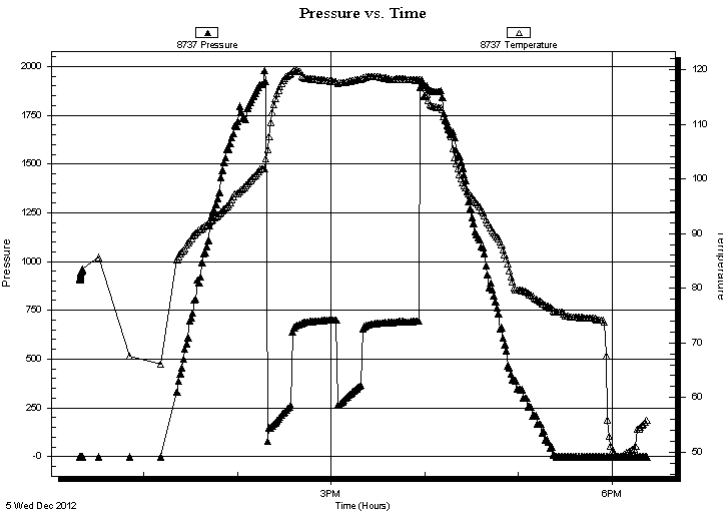
GENERAL INFORMATION:

Formation: LKC A-C	
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 14:19:04	Tester: Jeff Brown
Time Test Ended: 18:22:04	Unit No: 44
Interval: 3852.00 ft (KB) To 3900.00 ft (KB) (TVD)	Reference Elevations: 2535.00 ft (KB)
Total Depth: 3900.00 ft (KB) (TVD)	2529.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good	KB to GR/CF: 6.00 ft

Serial #: 8737 Outside

Press @RunDepth: psig @ 3888.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.12.05 End Date: 2012.12.05	Last Calib.: 2012.12.05
Start Time: 12:18:46 End Time: 18:22:15	Time On Btm:
	Time Off Btm:

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
ISI-Weak surface blow back
FFP-Good blow BOB in 5 min
FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
558.00	MW 20%M 80%W	7.83
155.00	WM with oil spots 25%W 75%M	2.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

Job Ticket: 44324

DST#: 1

ATTN: Charles R Ramsay

Test Start: 2012.12.05 @ 12:18:34

Tool Information

Drill Pipe:	Length: 3839.00 ft	Diameter: 3.80 inches	Volume: 53.85 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 53.85 bbl</u>	Tool Chased	5.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3852.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	68.00 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			3833.00	
Shut In Tool	5.00			3838.00	
Hydraulic tool	5.00			3843.00	
Packer	4.00			3847.00	20.00 Bottom Of Top Packer
Packer	5.00			3852.00	
Stubb	1.00			3853.00	
Perforations	2.00			3855.00	
Change Over Sub	1.00			3856.00	
Drill Pipe	31.00			3887.00	
Change Over Sub	1.00			3888.00	
Recorder	0.00	8321	Inside	3888.00	
Recorder	0.00	8737	Outside	3888.00	
Perforations	9.00			3897.00	
Bullnose	3.00			3900.00	48.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

Job Ticket: 44324

DST#: 1

ATTN: Charles R Ramsay

Test Start: 2012.12.05 @ 12:18:34

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:

bbbl

Water Loss: 7.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
558.00	MW 20%M 80%W	7.827
155.00	WM with oil spots 25%W 75%M	2.174

Total Length: 713.00 ft Total Volume: 10.001 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

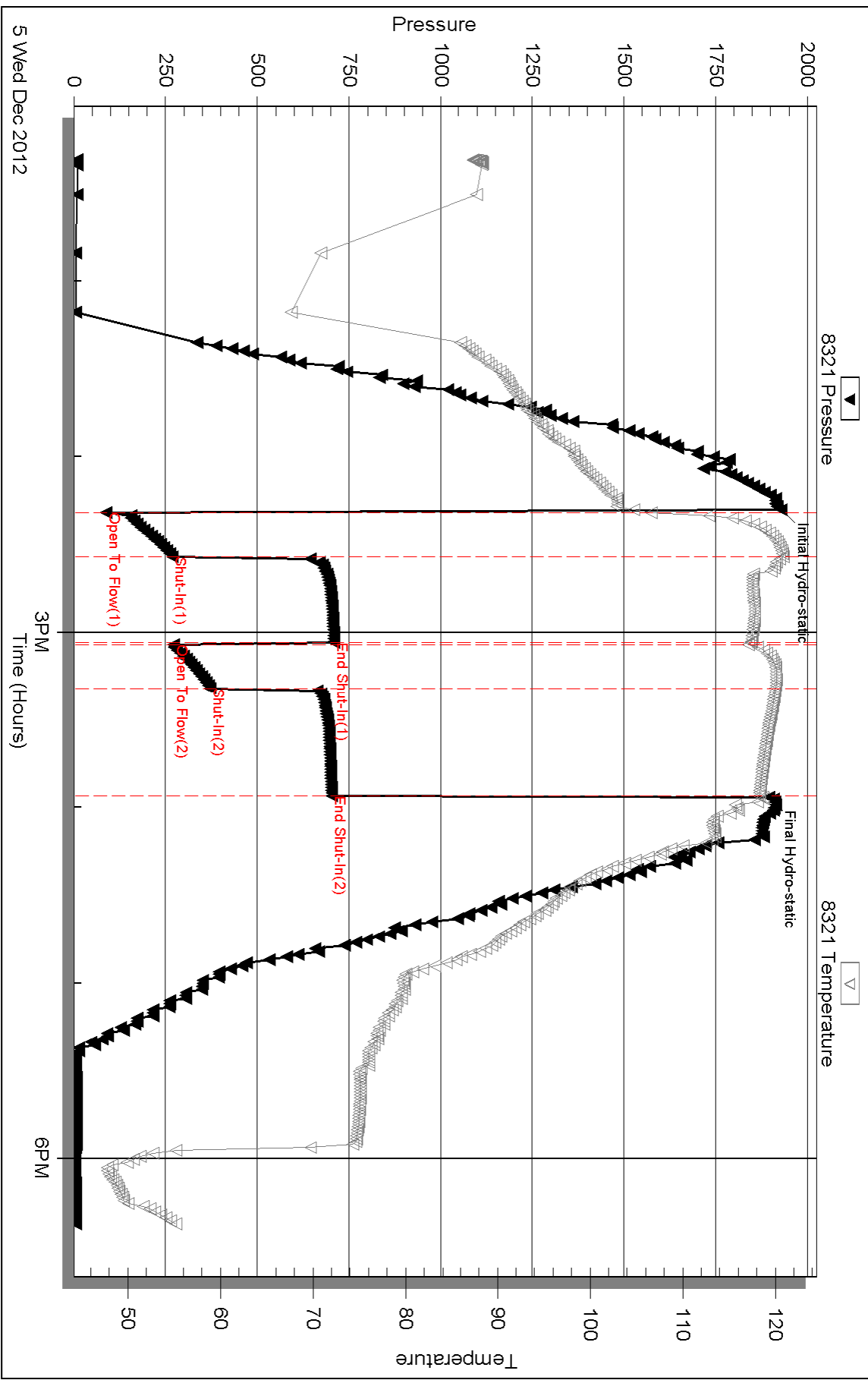
Inside

H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44324

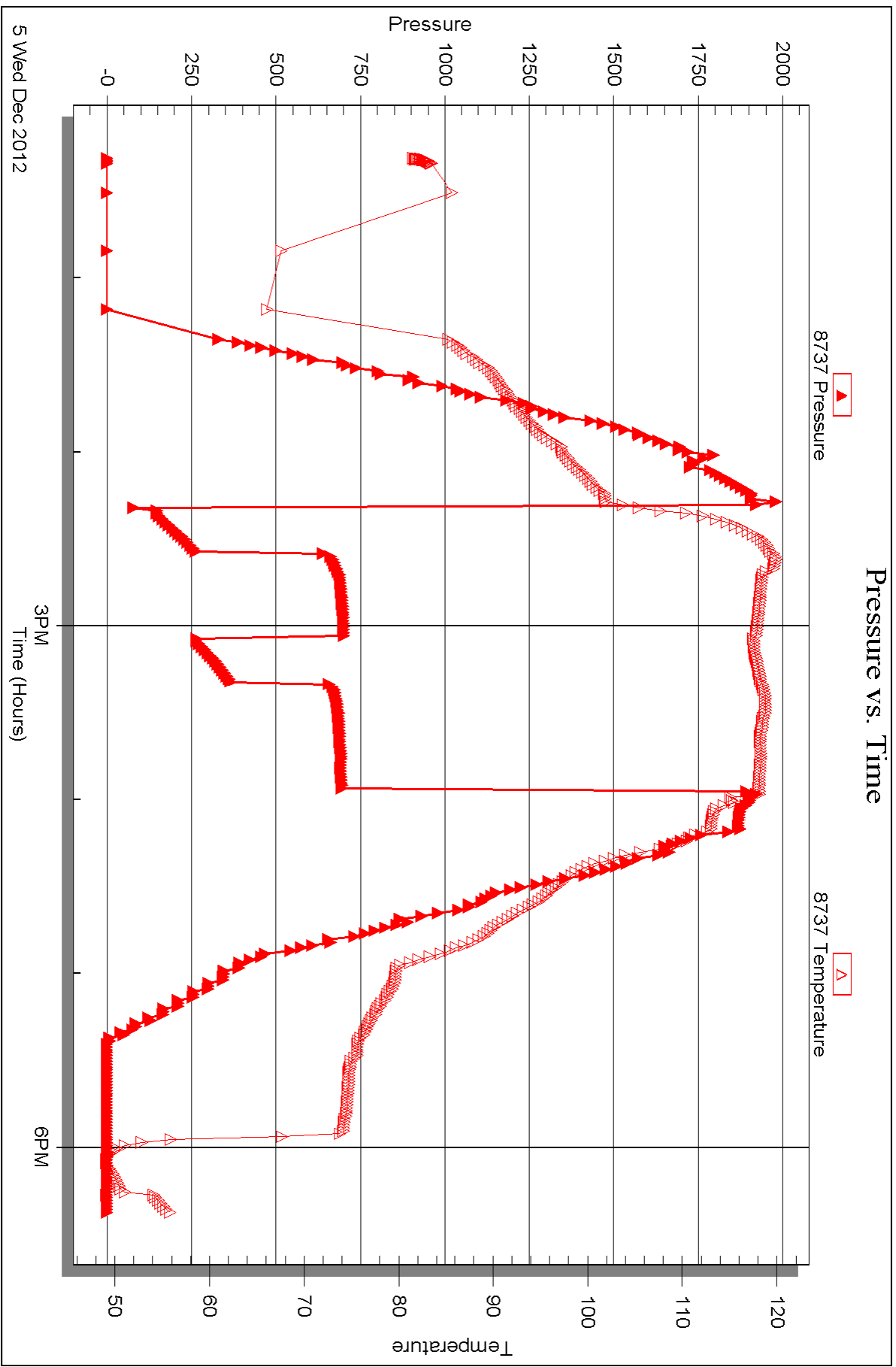
Printed: 2012.12.10 @ 10:52:20

Serial #: 8737

Outside H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 1



5 Wed Dec 2012

Triobite Testing, Inc

Ref. No: 44324

Printed: 2012.12.10 @ 10:52:21



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Charles R Ramsay

North Fork #36-1

36-9s-25w Graham,KS

Start Date: 2012.12.06 @ 03:02:41

End Date: 2012.12.06 @ 10:20:41

Job Ticket #: 50501 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.10 @ 10:51:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

Job Ticket: 50501

DST#: 2

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 03:02:41

GENERAL INFORMATION:

Formation: **LKC D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:04:41

Time Test Ended: 10:20:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3898.00 ft (KB) To 3952.00 ft (KB) (TVD)

Reference Elevations: 2535.00 ft (KB)

Total Depth: 3952.00 ft (KB) (TVD)

2529.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8321

Inside

Press @ Run Depth: 77.88 psig @ 3934.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.06

End Date:

2012.12.06

Last Calib.:

2012.12.06

Start Time:

03:02:42

End Time:

10:16:41

Time On Btm:

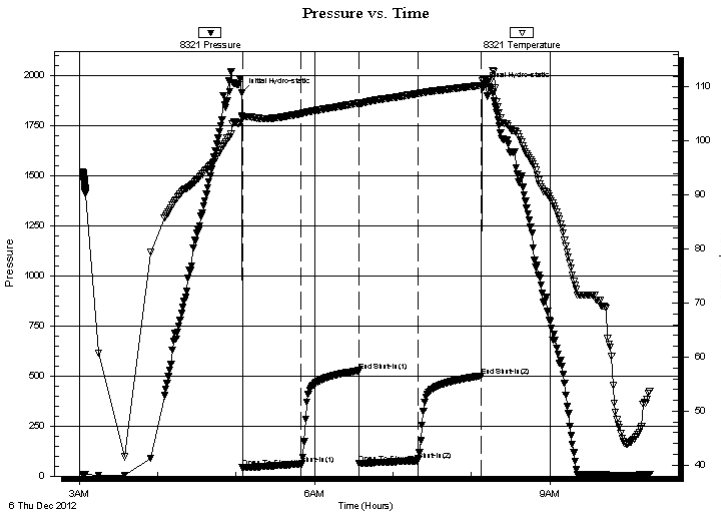
2012.12.06 @ 05:04:11

Time Off Btm:

2012.12.06 @ 08:08:11

TEST COMMENT: IFP-Fair blow built to 5 1/4"
ISI-Dead no blow back
FFP-Weak blow built to 3"
FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.12	104.65	Initial Hydro-static
1	42.20	104.39	Open To Flow (1)
46	59.80	105.06	Shut-In(1)
90	526.26	107.00	End Shut-In(1)
90	65.33	106.85	Open To Flow (2)
135	77.88	108.75	Shut-In(2)
183	500.25	110.32	End Shut-In(2)
184	1944.31	111.21	Final Hydro-static

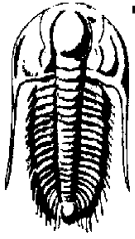
Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW with oil spots 20%M 80%W	0.91

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

ATTN: Charles R Ramsay

Job Ticket: 50501

DST#: 2

Test Start: 2012.12.06 @ 03:02:41

GENERAL INFORMATION:

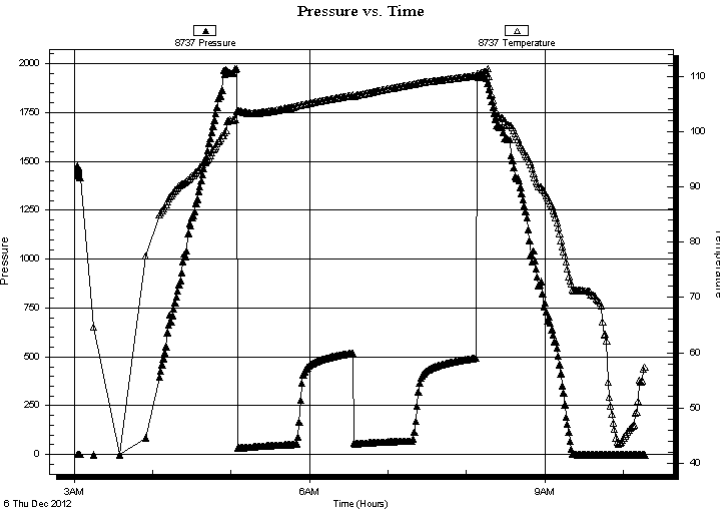
Formation: **LKC D-F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 05:04:41
 Tester: Jeff Brown
 Time Test Ended: 10:20:41
 Unit No: 44
Interval: 3898.00 ft (KB) To 3952.00 ft (KB) (TVD)
 Reference Elevations: 2535.00 ft (KB)
 Total Depth: 3952.00 ft (KB) (TVD) 2529.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 6.00 ft

Serial #: 8737

Outside

Press @ Run Depth: psig @ 3934.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.06 End Date: 2012.12.06 Last Calib.: 2012.12.06
 Start Time: 03:02:42 End Time: 10:16:41 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP-Fair blow built to 5 1/4"
 ISI-Dead no blow back
 FFP-Weak blow built to 3"
 FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW with oil spots 20%M 80%W	0.91

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

Job Ticket: 50501

DST#: 2

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 03:02:41

Tool Information

Drill Pipe:	Length: 3902.00 ft	Diameter: 3.80 inches	Volume: 54.73 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 54.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3898.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	74.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3879.00	
Shut In Tool	5.00			3884.00	
Hydraulic tool	5.00			3889.00	
Packer	4.00			3893.00	20.00 Bottom Of Top Packer
Packer	5.00			3898.00	
Stubb	1.00			3899.00	
Perforations	3.00			3902.00	
Change Over Sub	1.00			3903.00	
Drill Pipe	30.00			3933.00	
Change Over Sub	1.00			3934.00	
Recorder	0.00	8321	Inside	3934.00	
Recorder	0.00	8737	Outside	3934.00	
Perforations	15.00			3949.00	
Bullnose	3.00			3952.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

Job Ticket: 50501

DST#: 2

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 03:02:41

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	MW w ith oil spots 20%M 80%W	0.912

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

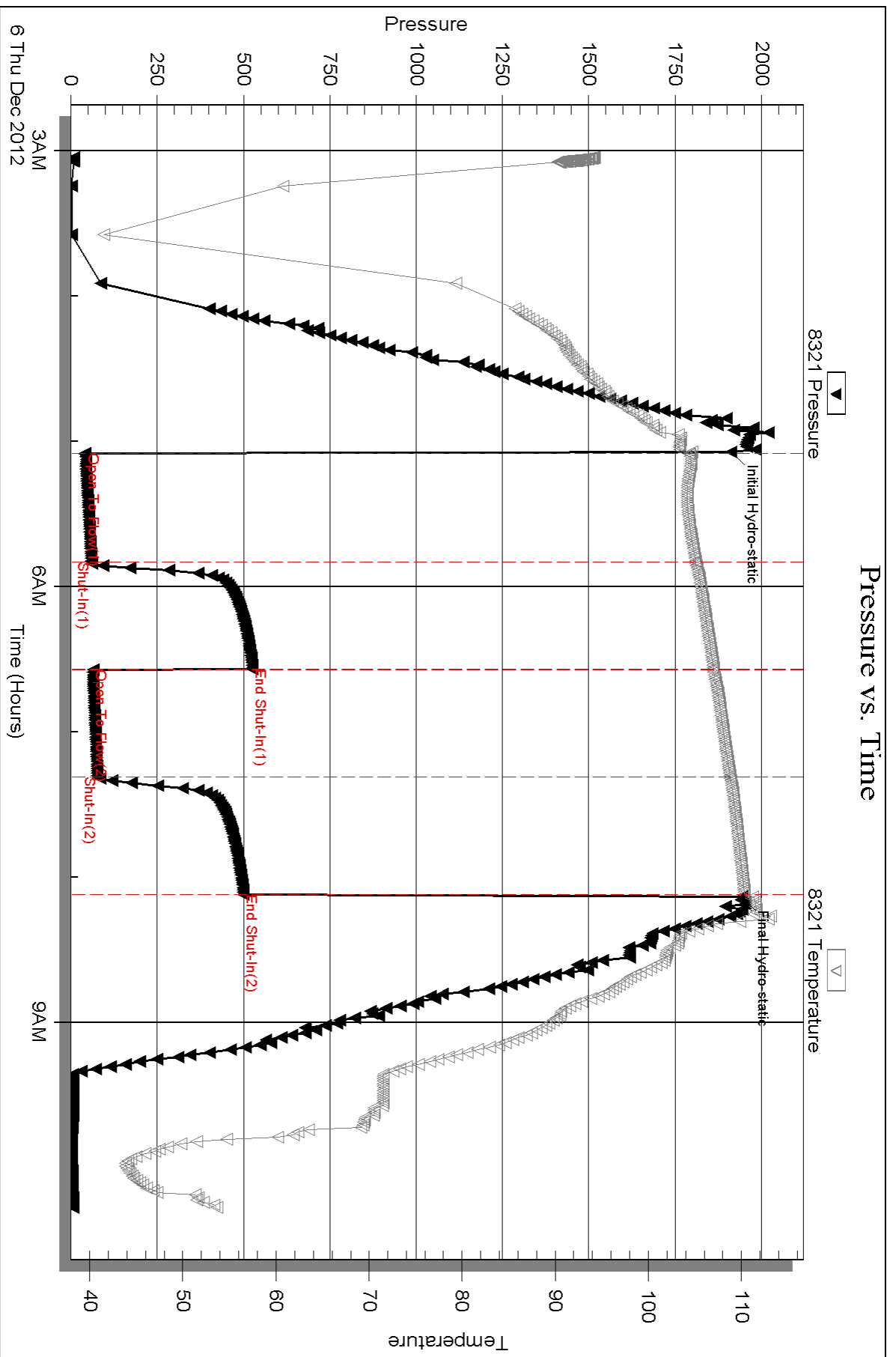
Serial #: 8321

Inside

H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 2

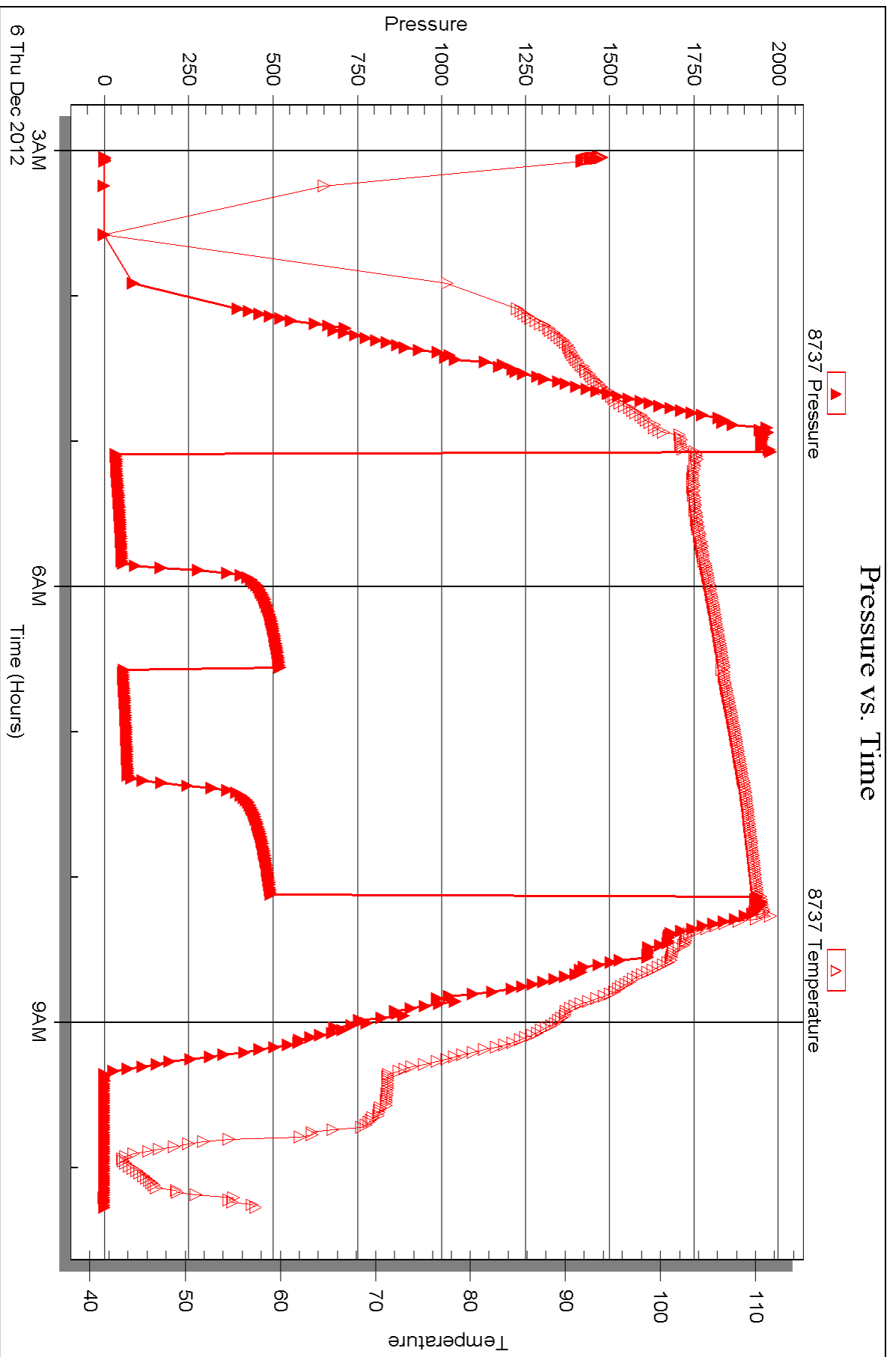


Serial #: 8737

Outside H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Charles R Ramsay

North Fork #36-1

36-9s-25w Graham,KS

Start Date: 2012.12.06 @ 20:49:32

End Date: 2012.12.07 @ 04:45:02

Job Ticket #: 50502 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.10 @ 10:50:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

Job Ticket: 50502

DST#: 3

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 20:49:32

GENERAL INFORMATION:

Formation: **LKC-H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:20:02

Time Test Ended: 04:45:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3981.00 ft (KB) To 4033.00 ft (KB) (TVD)

Reference Elevations: 2535.00 ft (KB)

Total Depth: 4033.00 ft (KB) (TVD)

2529.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8321

Inside

Press @ RunDepth: 86.90 psig @ 4018.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.06

End Date:

2012.12.07

Last Calib.:

2012.12.07

Start Time: 20:49:33

End Time:

04:44:02

Time On Btm:

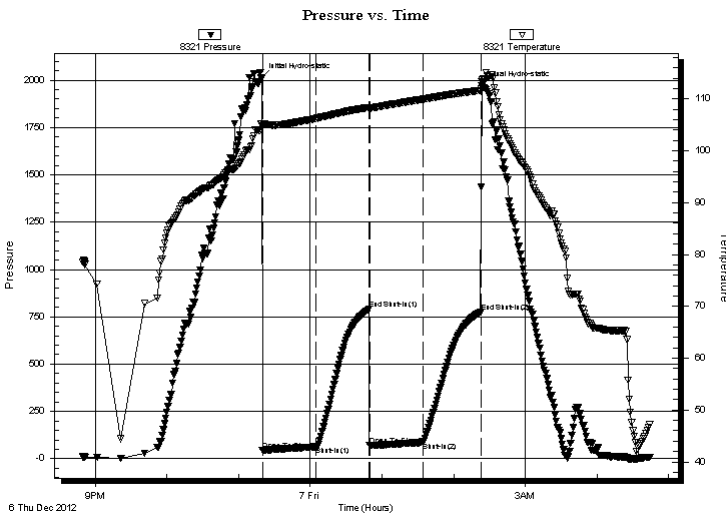
2012.12.06 @ 23:19:32

Time Off Btm:

2012.12.07 @ 02:23:32

TEST COMMENT: IFP=Fair blow built to 5 3/4"
ISI=Dead no blow back
FFP=Weak blow built to 3/4" died back to a 1/4"
FSI=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.65	105.21	Initial Hydro-static
1	44.61	104.86	Open To Flow (1)
46	63.68	106.25	Shut-In(1)
90	790.42	108.35	End Shut-In(1)
90	72.80	108.12	Open To Flow (2)
135	86.90	109.93	Shut-In(2)
183	775.68	111.65	End Shut-In(2)
184	1969.23	113.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	WM with oil spots 20%W 80%M	0.88
15.00	SOCM 3%O 97%M	0.21

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

H&C Oil Operating Inc

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

Job Ticket: 50502

DST#: 3

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 20:49:32

GENERAL INFORMATION:

Formation: **LKC-H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:20:02

Time Test Ended: 04:45:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3981.00 ft (KB) To 4033.00 ft (KB) (TVD)

Reference Elevations: 2535.00 ft (KB)

Total Depth: 4033.00 ft (KB) (TVD)

2529.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8737 Outside

Press @ Run Depth: psig @ 4018.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.06

End Date:

2012.12.07

Last Calib.:

2012.12.07

Start Time:

20:49:17

End Time:

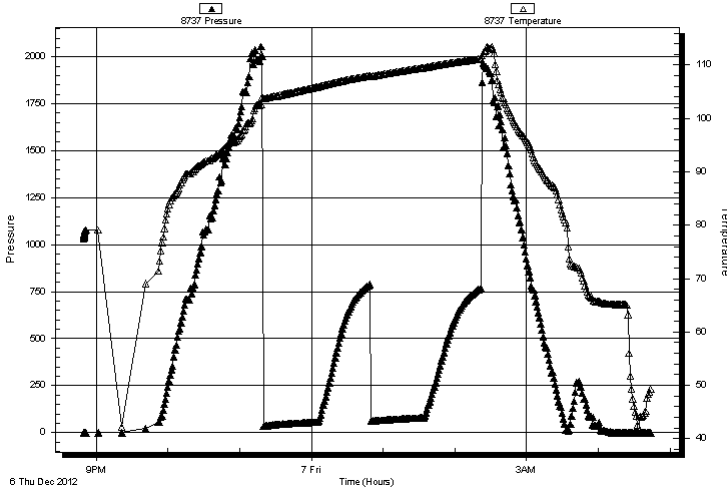
04:43:46

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP=Fair blow built to 5 3/4"
ISI=Dead no blow back
FFP=Weak blow built to 3/4" died back to a 1/4"
FSI=Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
63.00	WM with oil spots 20%W 80%M	0.88
15.00	SOCM 3%O 97%M	0.21

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

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

Job Ticket: 50502

DST#: 3

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 20:49:32

Tool Information

Drill Pipe:	Length: 3966.00 ft	Diameter: 3.80 inches	Volume: 55.63 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 55.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3981.00 ft			Final 46000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3962.00	
Shut In Tool	5.00			3967.00	
Hydraulic tool	5.00			3972.00	
Packer	4.00			3976.00	20.00 Bottom Of Top Packer
Packer	5.00			3981.00	
Stubb	1.00			3982.00	
Perforations	3.00			3985.00	
Change Over Sub	1.00			3986.00	
Drill Pipe	31.00			4017.00	
Change Over Sub	1.00			4018.00	
Recorder	0.00	8321	Inside	4018.00	
Recorder	0.00	8737	Outside	4018.00	
Perforations	12.00			4030.00	
Bullnose	3.00			4033.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc

36-9s-25w Graham,KS

PO Box 86
Plainville KS 67663

North Fork #36-1

Job Ticket: 50502

DST#: 3

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 20:49:32

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:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	WM w ith oil spots 20%W 80%M	0.884
15.00	SOCM 3%O 97%M	0.210

Total Length: 78.00 ft Total Volume: 1.094 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

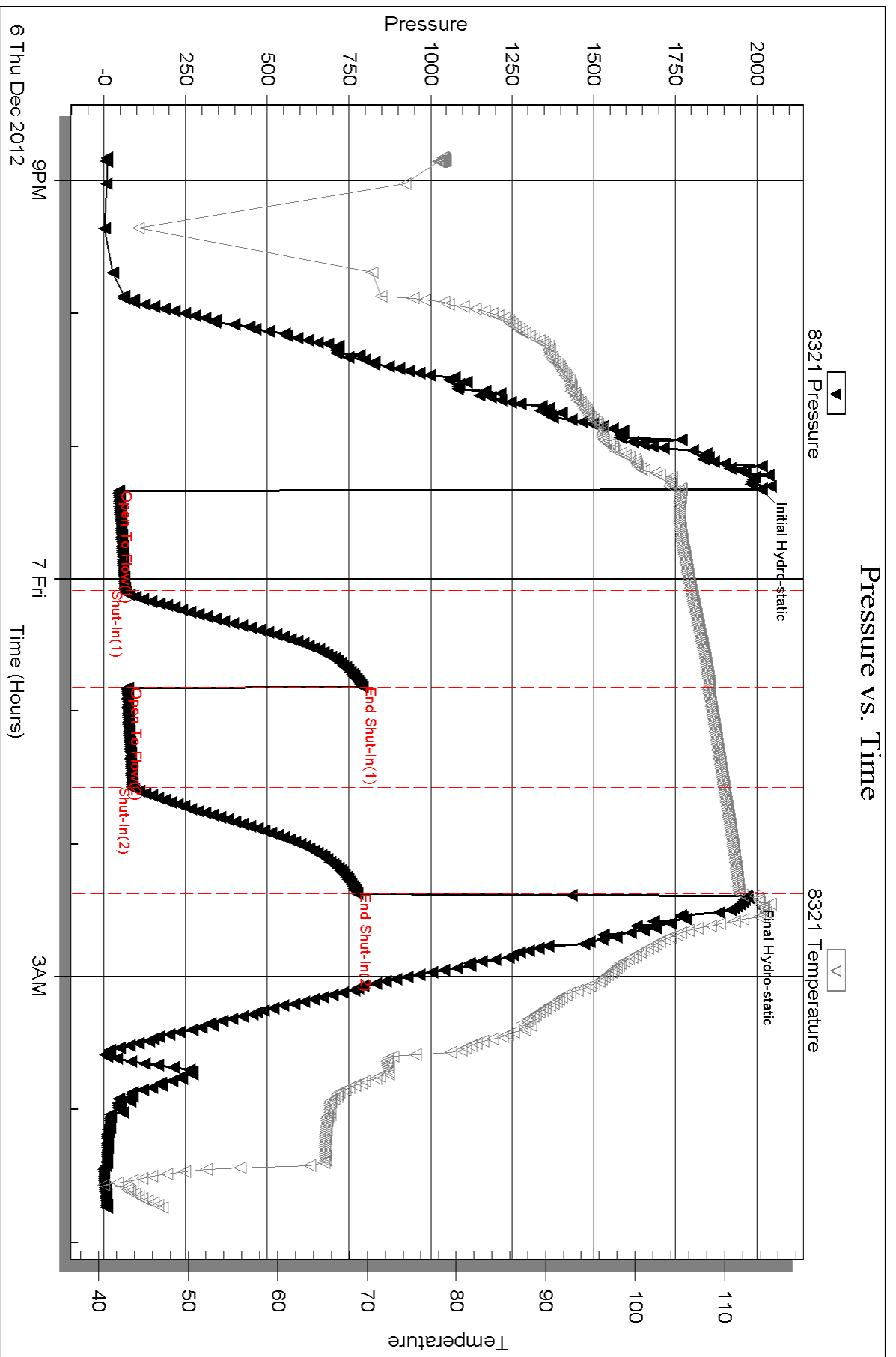
Serial #: 8321

Inside

H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 50502

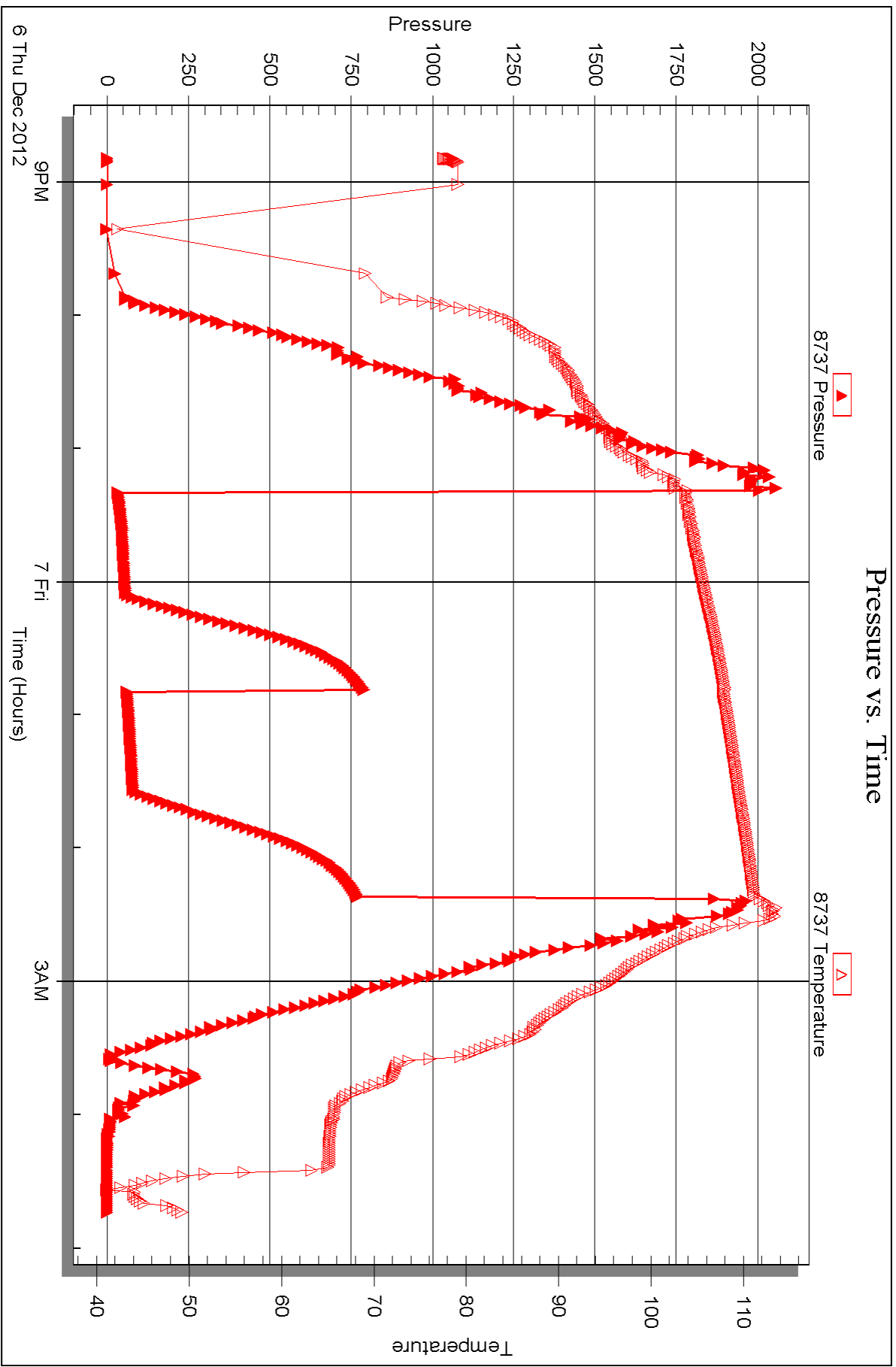
Printed: 2012.12.10 @ 10:50:25

Serial #: 8737

Outside H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 50502

Printed: 2012.12.10 @ 10:50:26



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 44324

Well Name & No. North Fork 326-1 Test No. 1 Date 12-5-12
 Company H + C oil operating INC Elevation 2535 KB 2529 GL
 Address PO Box 86 Plainville Ks 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 36 Twp. 9S Rge. 25W Co. Graham State Ks

Interval Tested 3852-3900 Zone Tested LKC-A-C
 Anchor Length 48 Drill Pipe Run 3839 Mud Wt. 9.2
 Top Packer Depth 3847 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3852 Wt. Pipe Run 0 WL 7.4
 Total Depth 3900 Chlorides 1200 ppm System LCM 2
 Blow Description FF-Strong Blow BOB IN 2 1/2 min
BI-Weak surface Blow Back
FF-GOOD Blow BOB IN 5 min
BI-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>558</u>	<u>Feet of MW</u>			<u>80%</u>	<u>20%</u>
<u>155</u>	<u>Feet of WM with oil spots</u>			<u>25%</u>	<u>75%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 713 BHT 118 Gravity _____ API RW .138 @ 60.0 °F Chlorides 65,000 ppm

(A) Initial Hydrostatic 1929 Test 1150 T-On Location 11:10
 (B) First Initial Flow 87 Jars _____ T-Started 00:18
 (C) First Final Flow 268 Safety Joint _____ T-Open 14:28
 (D) Initial Shut-In 708 Circ Sub _____ T-Pulled 15:48
 (E) Second Initial Flow 272 Hourly Standby _____ T-Out 18:21
 (F) Second Final Flow 371 Mileage 122 RT 189.10 Comments _____
 (G) Final Shut-In 703 Sampler _____
 (H) Final Hydrostatic 1896 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1339.10
 Final Flow 15 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1339.10

Approved By _____ Our Representative Jeff Brown
 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. 50501

Well Name & No. North Fork 326-1 Test No. 2 Date 12-6-12
 Company H+C Oil Operating INC Elevation 2535 KB 2529 GL
 Address PO Box 826 Plainville KS 67463
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 326 Twp. 9S Rge. 25W Co. Graham State KS

Interval Tested 3898-3952 Zone Tested LKC-D-F
 Anchor Length 54 Drill Pipe Run 3902 Mud Wt. 9.2
 Top Packer Depth 3893 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3898 Wt. Pipe Run 0 WL 7.4
 Total Depth 3952 Chlorides 1200 ppm System LCM 2

Blow Description IFP Fair Blow Built to 5 1/4 IN
IST - Dead No Blow Back
FFP - Weak Blow Built to 3 IN
FST - Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>405</u>	<u>MW with oil spots</u>			<u>80</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 405 BHT _____ Gravity _____ API RW 188 @ 48.8° F Chlorides 60,000 ppm

(A) Initial Hydrostatic 1912 Test 1150 T-On Location 2:08
 (B) First Initial Flow 42 Jars _____ T-Started 3:02
 (C) First Final Flow 60 Safety Joint _____ T-Open 5:04
 (D) Initial Shut-In 526 Circ Sub _____ T-Pulled 8:04
 (E) Second Initial Flow 405 Hourly Standby _____ T-Out 10:20
 (F) Second Final Flow 78 Mileage 189.10 Comments _____
 (G) Final Shut-In 500 Sampler _____
 (H) Final Hydrostatic 1944 Straddle _____ Ruined Shale Packer _____

Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1339.10
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1339.100

Approved By _____ Our Representative Jeff Brown

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50502

Well Name & No. North Fork Test No. 3 Date 12-6-12
 Operator H+C Oil Operating INC Elevation 2535 KB 2529 GL
 Address Po Box 80 Plainville KS 67463
 Geology Marc Downing Rig American Eagle #3
 Section 36 Twp. 9S Rge. 25W Co. Graham State KS

Well ID 3981-4033 Zone Tested LKC-H&I
 Depth 52 Drill Pipe Run 3960 Mud Wt. 9.4
 True Depth 3976 Drill Collars Run 0 Vis 58
 Apparent Depth 3981 Wt. Pipe Run 0 WL 7.8
 Chlorides 1200 ppm System LCM 2

Well Condition IP- fair Blow Built To 5 3/4 IN
1ST- Dead No Blow Back
FP- weak Blow Built To 3/4 IN Died Back To 1/4 IN
1ST- Dead No Blow Back

Feet of	%gas	%oil	%water	%mud
<u>3</u>			<u>20%</u>	<u>80%</u>
<u>5</u>		<u>3%</u>		<u>97%</u>
Feet of	%gas	%oil	%water	%mud
Feet of	%gas	%oil	%water	%mud
Feet of	%gas	%oil	%water	%mud

78 BHT 112 Gravity _____ API RW 295 @ 48.1 °F Chlorides 34,000 ppm
 Hydrostatic 2012 Test 1250 T-On Location 20:28
 Initial Flow 45 Jars _____ T-Started 20:49
 Final Flow 64 Safety Joint _____ T-Open 23:20
 In 790 Circ Sub _____ T-Pulled 2:20
 Initial Flow 73 Hourly Standby _____ T-Out 4:45
 Final Flow 87 Mileage 189.10 Comments _____
 In 776 Sampler _____
 Hydrostatic 1969 Straddle _____ Ruined Shale Packer _____
45 Shale Packer _____ Ruined Packer _____
45 Extra Packer _____ Extra Copies _____
45 Extra Recorder _____ Sub Total 0
45 Day Standby _____ Total 1339.10
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1339.10

Our Representative Jeff Brown

By _____ 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 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.