

Billings Flying Service, Inc.

Date: _____ Aircraft Model: UH-1H Aircraft N: _____
Pilot: _____

AIRCRAFT AND ENGINE TIME RECORD (Enter in Hours and Tenths)			RIN			
Aircraft S/N	Hours Today		MAST		TRUNNION	
		Hours to Date		Takeoffs x 3		Takeoffs x 1.5
	Total		Lifts x 6		Lifts x 3	
HOBBS	Ending Hobbs		Daily Total		Daily Total	
	Starting Hobbs		Beginning Total		Beginning Total	
Torque Events	Hours Flown		Ending Total		Ending Total	
	Events Today		Preflight inspection complied with:			
	Events to Date		(Signature and Certificate No.) PILOT			
	Total					

Engine Cycles			MECHANIC: Corrective Action & List All Maintenance Performed
# of Starts			
#Speed Change			
# of Takeoffs and Landings			
Max N1 Achieved			
HIT			
OAT °C			
N1 %			
EGT			

PILOT: Remarks or Discrepancies _____

06/07/16 N175SF Bell UH-1H S/N 691673 Hour meter 230.7 TT: 5071.6 / Engine T53-L-13B S/N LE-16579R TT: 869.2 TSOH: 327.2
Completed 50 Hr. inspection and service Per. Service manual TM55-1520-210-23-1 Replaced worn tail rotor slider with a new unit P/N 204-010-720-003 Per. Service manual TM55-1520-210-23-1 Aircraft was test ran and test flown with no defects noted. Douglas E. Burke A&P [REDACTED]
NEW 51.164 S/N AZF5006237 [REDACTED]

Special Instructions		
Date Complied with:		
Date Complied With	AD notes, service letters & bulletins	Due
(Signature and Certificate No.)		

Maintenance Page

Billings Flying Service, Inc.

Date:		Aircraft Model: UH-1H		Aircraft N: 175SF	
Pilot:					
AIRCRAFT AND ENGINE TIME RECORD (Enter in Hours and Tenths)			RIN		
Aircraft S/N	Hours Today		MAST		TRUNNION
	Hours to Date	4858.4	Takeoffs x 3		Takeoffs x 1.5
	Total	4858.4	Lifts x 6		Lifts x 3
HOBBS	Ending Hobbs	0.0	Daily Total		Daily Total
	Starting Hobbs	0.0	Beginning Total	196320	Beginning Total 87280
	Hours Flown		Ending Total	196320	Ending Total 87280
Events		Preflight Inspection complied with:			
I certify that the altimeter and static system tests required by FAR Part 91.411 have been performed and comply with App E of Part 43. The altimeter has been tested to 20K feet. Date 1-10-2004. Reg# N175SF. A/C Time 503.3 Hrs.		I certify that the altimeter and static system tests required by FAR Part 91.411 have been performed and comply with App E of Part 43. The altimeter has been tested to 20K feet. Date 1-10-2004. Reg# N175SF. A/C Time 503.3 Hrs.			
Signed: [Signature] W.O. 143048		Signed: [Signature] W.O. 143048 PILOT			
# of AEROTRONICS, INC. CRS NH2R031L #6		# of AEROTRONICS, INC. CRS NH2R031L #6			

#Speed Change	N175SF S/N 69-16713 A/C TT 4858.4 Hobbs 0.0 Date 1/13/14
# of Takeoffs and Landings	Helicopter purchased by BVDS Inc. and disassembled for the following maintenance. All drive components removed and tagged using the current airframe total time. The following serviceable components were installed: Mast assy s/n A12-15469, T/R hanger bearing assemblies S/N's ZS26949, ZS26950, ZS26951 & ZS26952, Main transmission assy s/n ABU-15956, 212 Intermediate gear box s/n AHP-00712, T/R gear box s/n BBC-102, R/H Elevator s/n DD5-13981, L/H Elevator s/n DD5-13217, Elevator Horn s/n A5-00231, Stab Bar Center Frames s/n's MD19-2-2377 & MD19-2-2379, M/R blade s/n AMR-63270 & AMR-67309, M/R hub s/n ADA-2184, T/R Yoke s/n A-2139, T/R Gnps s/n's AFS-5572 & AFS-8764, Slider s/n 33400-9, T/R blades s/n's AFS-13366 & AFS-13478, Scissors & Sleeve assy s/n BE-0923, Collective levers s/n's EA-1309 & EA-1102, Swash plate & Support assy s/n J19-2394, Engine assy s/n LE-18239B with fresh Overhaul. New control bolt kit and new oil cooler bearings installed. New T/R pitch change quill housing & control rod installed. Aeronautical Accessories High skid gear installed. Global vertical fin spar installed into Tail boom s/n mmbd-1486 to eliminate AD 99-25-12. Hydraulic systems function tested using ground Mule. Flight controls rigged IAW TM55-1520-210-23. Engine controls rigged IAW TM55-1520-210-23. Engine EGT tested using Bar Field tester. Serviceable Bell landing gear cross tubes installed. Verified all component times in the hard cards (see hard cards for detailed times and work performed on individual components). Properly placarded the cockpit and installed correct range markings on all instruments IAW Tamarack Type Certificate Data Sheet & TM55-1520-210-10. Aircraft lubricated with Mobile 28 grease and all oils and filters changed, BP 2380 Turbine oil used in engine and all gear boxes. All T/R drive shaft couplings repacked with grease. The following AD's were complied with 70-06-02, 71-21-02, 76-10-01, 79-20-05, 81-19-02, 83-03-03, 84-18-03R1, 88-25-05, 89-08-05, 89-08-06, 90-03-10, 90-10-05, 92-03-14, 92-23-01, 93-17-12, 94-18-09, 97-01-06, 97-20-09, 99-17-03, 99-25-12, 00-15-21 R1, 00-15-52-02, 01-31, 02-09-51, 2002-13-51 & 06-19-05. The following AD's are not applicable 69-15-07, 73-16-03, 73-17-04, 74-02-01, 74-23-02, 75-26-03, 75-26-05, 76-02-06, 76-06-02, 76-12-07, 76-14-03, 77-10-07, 77-17-03, 77-17-05, 78-14-07, 78-20-07, 78-21-02, 80-03-07, 80-17-09, 80-21-05, 86-17-10, 89-17-03, 89-20-12, 90-03-09, 92-07-08, 92-13-10, 92-27-21, 94-22-09, 95-10-07, 95-10-08, 96-12-26, 98-11-14, 99-07-15, 99-18-02, 01-08-04, 01-13-01, 2002-20-01, 02-22-14, 03-01-04, 07-19-53, 07-22-02, 08-10-03, 10-14-12, 12-14-12, 12-17-08, 12-17-10, 12-22-06, & 12-26-11 (see AD sign off sheet & engine log book for detailed compliance). The following SOF's & ASAM's complied with or found not applicable: UH-1-91-01, UH-1-91-02, UH-1-94-01, UH-1-94-02, UH-1-94-03, UH-1-94-04, UH-1-96-01, UH-1-96-02, UH-1-96-03, UH-1-96-04, UH-1-97-01, UH-1-98-01, UH-1-98-02, UH-1-98-03, UH-1-98-04, UH-1-98-05, UH-1-98-06, UH-1-98-07, UH-1-98-08, UH-1-99-01, UH-1-99-02, UH-1-99-03, UH-1-99-04, UH-1-00-01, UH-1-00-02, UH-1-00-03, UH-1-00-04, UH-1-00-05, UH-1-00-06, UH-1-00-07, UH-1-00-08, UH-1-00-09, UH-1-00-10, UH-01-01, UH-01-01-02, UH-01-01-03, UH-01-01-04, UH-01-01-05, UH-01-01-06, UH-1-0-2-01, UH-1-02-02, UH-1-02-03, UH-1-04-01, UH-1-05-SOF-01, UH-1-05-SOF-02, UH-1-05-SOF-03, UH-1-05-SOF-04, UH-1-07-SOF-01, UH-1-92-ASAM-01, UH-1-92-ASAM-02, UH-1-92-ASAM-04, UH-1-92-ASAM-05, UH-1-92-ASAM-06, UH-1-92-ASAM-07, UH-1-92-ASAM-08, UH-1-92-ASAM-09, UH-1-92-ASAM-10, UH-1-92-ASAM-11, UH-1-92-ASAM-12, UH-1-92-ASAM-13, UH-1-93-ASAM-01, UH-1-93-ASAM-02, UH-1-93-ASAM-03, UH-1-93-ASAM-04, UH-1-93-ASAM-05, UH-1-94-ASAM-01, UH-1-94-ASAM-02, UH-1-94-ASAM-03, UH-1-94-ASAM-04, UH-1-94-ASAM-05, UH-1-95-ASAM-01, UH-1-95-ASAM-02, UH-1-95-ASAM-03, UH-1-95-ASAM-04, UH-1-95-ASAM-05, UH-1-96-ASAM-01, UH-1-96-ASAM-02, UH-1-96-ASAM-03, UH-1-96-ASAM-04, UH-1-96-ASAM-05, UH-1-97-ASAM-01, UH-1-97-ASAM-02, UH-1-97-ASAM-03, UH-1-97-ASAM-04, UH-1-97-ASAM-05, UH-1-97-ASAM-06, UH-1-98-ASAM-01, UH-1-98-ASAM-02, UH-1-98-ASAM-03, UH-1-98-ASAM-04, UH-1-98-ASAM-05, UH-1-98-ASAM-06, UH-1-98-ASAM-07, UH-1-98-ASAM-08, UH-1-98-ASAM-09, UH-1-98-ASAM-10, UH-1-98-ASAM-11, UH-1-98-ASAM-12, UH-1-98-ASAM-13, UH-1-99-ASAM-01, UH-1-99-ASAM-02, UH-1-99-ASAM-03, UH-1-99-ASAM-04, UH-1-99-ASAM-05, UH-1-99-ASAM-06, UH-1-99-ASAM-07, UH-1-99-ASAM-08, UH-1-99-ASAM-09, UH-1-99-ASAM-10, UH-1-99-ASAM-11, UH-1-99-ASAM-12, UH-1-99-ASAM-13, UH-1-00-ASAM-01, UH-1-00-ASAM-02, UH-1-00-ASAM-03, UH-1-00-ASAM-04, UH-1-00-ASAM-05, UH-1-00-ASAM-06, UH-1-00-ASAM-07, UH-1-00-ASAM-08, UH-1-00-ASAM-09, UH-1-00-ASAM-10, UH-1-00-ASAM-11, UH-1-00-ASAM-12, UH-1-00-ASAM-13, 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UH-1-18-ASAM-12, UH-1-18-ASAM-13, UH-1-19-ASAM-01, UH-1-19-ASAM-02, UH-1-19-ASAM-03, UH-1-19-ASAM-04, UH-1-19-ASAM-05, UH-1-19-ASAM-06, UH-1-19-ASAM-07, UH-1-19-ASAM-08, UH-1-19-ASAM-09, UH-1-19-ASAM-10, UH-1-19-ASAM-11, UH-1-19-ASAM-12, UH-1-19-ASAM-13, UH-1-20-ASAM-01, UH-1-20-ASAM-02, UH-1-20-ASAM-03, UH-1-20-ASAM-04, UH-1-20-ASAM-05, UH-1-20-ASAM-06, UH-1-20-ASAM-07, UH-1-20-ASAM-08, UH-1-20-ASAM-09, UH-1-20-ASAM-10, UH-1-20-ASAM-11, UH-1-20-ASAM-12, UH-1-20-ASAM-13, UH-1-21-ASAM-01, UH-1-21-ASAM-02, UH-1-21-ASAM-03, UH-1-21-ASAM-04, UH-1-21-ASAM-05, UH-1-21-ASAM-06, UH-1-21-ASAM-07, UH-1-21-ASAM-08, UH-1-21-ASAM-09, UH-1-21-ASAM-10, UH-1-21-ASAM-11, UH-1-21-ASAM-12, UH-1-21-ASAM-13, UH-1-22-ASAM-01, UH-1-22-ASAM-02, UH-1-22-ASAM-03, UH-1-22-ASAM-04, UH-1-22-ASAM-05, UH-1-22-ASAM-06, UH-1-22-ASAM-07, UH-1-22-ASAM-08, UH-1-22-ASAM-09, UH-1-22-ASAM-10, UH-1-22-ASAM-11, UH-1-22-ASAM-12, UH-1-22-ASAM-13, UH-1-23-ASAM-01, UH-1-23-ASAM-02, UH-1-23-ASAM-03, UH-1-23-ASAM-04, UH-1-23-ASAM-05, UH-1-23-ASAM-06, UH-1-23-ASAM-07, UH-1-23-ASAM-08, UH-1-23-ASAM-09, UH-1-23-ASAM-10, UH-1-23-ASAM-11, UH-1-23-ASAM-12, UH-1-23-ASAM-13, UH-1-24-ASAM-01, UH-1-24-ASAM-02, UH-1-24-ASAM-03, UH-1-24-ASAM-04, UH-1-24-ASAM-05, UH-1-24-ASAM-06, UH-1-24-ASAM-07, UH-1-24-ASAM-08, UH-1-24-ASAM-09, UH-1-24-ASAM-10, UH-1-24-ASAM-11, UH-1-24-ASAM-12, UH-1-24-ASAM-13, UH-1-25-ASAM-01, UH-1-25-ASAM-02, UH-1-25-ASAM-03, UH-1-25-ASAM-04, UH-1-25-ASAM-05, UH-1-25-ASAM-06, UH-1-25-ASAM-07, UH-1-25-ASAM-08, UH-1-25-ASAM-09, UH-1-25-ASAM-10, UH-1-25-ASAM-11, UH-1-25-ASAM-12, UH-1-25-ASAM-13, UH-1-26-ASAM-01, UH-1-26-ASAM-02, UH-1-26-ASAM-03, UH-1-26-ASAM-04, UH-1-26-ASAM-05, UH-1-26-ASAM-06, UH-1-26-ASAM-07, UH-1-26-ASAM-08, UH-1-26-ASAM-09, UH-1-26-ASAM-10, UH-1-26-ASAM-11, UH-1-26-ASAM-12, UH-1-26-ASAM-13, UH-1-27-ASAM-01, UH-1-27-ASAM-02, UH-1-27-ASAM-03, UH-1-27-ASAM-04, UH-1-27-ASAM-05, UH-1-27-ASAM-06, UH-1-27-ASAM-07, UH-1-27-ASAM-08, UH-1-27-ASAM-09, UH-1-27-ASAM-10, 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UH-1-45-ASAM-09, UH-1-45-ASAM-10, UH-1-45-ASAM-11, UH-1-45-ASAM-12, UH-1-45-ASAM-13, UH-1-46-ASAM-01, UH-1-46-ASAM-02, UH-1-46-ASAM-03, UH-1-46-ASAM-04, UH-1-46-ASAM-05, UH-1-46-ASAM-06, UH-1-46-ASAM-07, U

Billings Flying Service, Inc.

Date:

Aircraft Model: UH-1H

Aircraft N: 1755F

Pilot:

AIRCRAFT AND ENGINE TIME RECORD

(Enter in Hours and Tenths)

RIN

Aircraft S/N	Hours Today		MAST		TRUNNION	
	Hours to Date	1.1	Takeoffs x 3	8	Takeoffs x 1.5	4.5
Total	4858.4	Lifts x 6	0	Lifts x 3	0	
HOBBS	Ending Hobbs	1.1	Daily Total	9	Daily Total	4.5
Starting Hobbs	0.0	Beginning Total	196320	Beginning Total	87280	
Hours Flown	1.1	Ending Total	196329	Ending Total	87284.5	
Torque Events	Events Today	0	Preflight inspection complied with:			
Events to Date		(Signature and Certificate No.) PILOT				
Total						

Engine Cycles

# of Starts	3
#Speed Change	0
# of Takeoffs and Landings	3
Max N1 Achieved	100

HIT

OAT °C	
N1 %	
EGT	

PILOT: Remarks or Discrepancies

Retorgued
TAIL BOOM
Attach Bolts
Hobbs 1.1

ASP

Daily inspection accomplished, aircraft deemed airworthy and satisfactory for operational flight.

(Signature and Certificate No.) MECHANIC

MECHANIC: Corrective Action & List All Maintenance Performed

I find that this aircraft meets the certification requested and have issued a Special Airworthiness Certificate in the Research & Development category dated January 23, 2014

Warren k. Pickering DARE-750031-SW

Performed Maintenance Test Flights IAW TM55-1520-242-MTF. Found operations & parameters to be normal. Tracked & Balanced M/R system. Dated 1/23/14 Hobbs 1.1 AFTT 4859.5.

Gary Blain A&P

I find that this aircraft Tamarack Helicopters Inc. Model UH-1H serial number 69-16713 meets the requirements for the certification requested and have issued Special Airworthiness Certificate in the Restricted Category Dated 28 January 2014.

Special

Date Co

Warren K. Pickering DARE-750031-SW

Date Complied With

AD notes, service letters & bulletins

Due

(Signature and Certificate No.)

HELIPONENTS INC.

Bell Helicopter Authorized Customer Service Facility

Work Order No. 108790		Date Received 17-Jul-13	Date Completed 19-Aug-13
Customer: BVDS, INC. 6309 JELLISON ROAD BILLINGS, MT 59101		Description 90° T/R Gearbox Assy	MFR/Model Bell
		Part Number 204-040-012-013	Serial Number BBC-102
		Total Time 3,251.0	Time Since O/H 0.0

ITEM	LABOR INSTRUCTIONS/INSPECTIONS	MECH	INSP
1	Overhaul T/R Gear Box Assy P/N 204-040-012-013, S/N BBC-102. Overhauled T/R Gear Box Assy P/N 204-040-012-013, S/N BBC-102 IAW DMWR 55-0156-127, chap. 4, par. 4-1 thru 4-15, change 16, dated: 29 April 1994. TW #HPI27 & HPI30 Grease Dated: July 2011.		
2	NDI. C/W non destructive inspection on 90° T/R Gearbox Assy P/N 204-040-012-013, S/N BBC-102 IAW DMWR 55-0156-127, chap. 4, par. 4-9, change 16, dated: 29 April 1994 TM 1-1520-256-23, chap. 1, par. 1.4.7. thru 1.4.9.2, dated: 30 Nov 1996. No defects noted. See attached HPI magnetic particle and fluorescent penetrant inspection sheet for P/N's and S/N's.		
3	Outer Coupling and Output Shaft require Cad touch up: Cad plated multiple parts IAW DMWR 55-1560-127, chap. 4, par. 4-10, change 16, dated: 29 April 1994		
4	Chip Detector missing: Installed new chip detector P/N 87526. See item #1 for reference.		
5	Retaining Ring on Input Coupling Assy sprung: Removed and replaced with new surplus retainer P/N RRT237C. See item #1 for reference.		
6	Oil Cap Assy worn beyond limits: Removed and replaced with new surplus Cap P/N 204-040-502-009. See item #1 for reference.		
7	Inner Coupling P/N 204-040-603-007 Teeth pitted beyond limits: Removed Inner Coupling P/N 204-0410-603-007 replaced with new surplus P/N 204-040-603-007, S/N CP12-49993. See item #1 for reference.		
8	Output Duplex Bearing rough and spalled: Removed Duplex Bearing P/N 204-040-424-001, S/N 973C Replaced with serviceable P/N 204-040-424-001, S/N 25528. See item #1 for reference.		
9	Input Alignment Bearing grooved and pitted Roller Bearings: Removed Bearing P/N 204-040-406-001, S/N 219596 replaced w/ serviceable P/N 204-040-406-001, S/N 15672. See item #1 for reference.		
10	Output Alignment Bearing grooved and pitted Roller Bearings: Removed Bearings P/N 204-040-407-003, S/N 1182, replaced with new P/N 204-040-407-003, S/N MB1249. See item #1 for reference.		

The item identified above was repaired and inspected in accordance with current F.A.A. regulations and is approved for return service.

By:  Chad Barta Date: AUG 19, 2013

F.A.A. Approved and E.A.S.A. Accepted Repair Station No. XHCR780K
4930 E. Falcon Drive Mesa, Arizona 85215-2544 Tel: (480) 981-8300 Fax: (480) 981-8400

HELIPONENTS INC.

MAGNETIC PARTICLE & FLUORESCENT PENETRANT INSPECTION SHEET

W/O #: 108750		W/O DATE: 7/12/13		PAGE 1 OF 1		
P/N: 204-040-012-013		S/N: BBC-102		M = Mag Particle (ASTM-E-1488) F = Fluor. Penetrant (ASTM-E-1417)		
ITEM	QTY	PART NO.	SERIAL NO.	PART NAME	CODE	INSP
1	1	204-040-402-009	B13-20335	shaft	m	RAM
2	1	204-040-401-007	A13-24649	Bevel Gear	m	RAM
3	1	204-040-400-009	B13-14029	Pinion Gear	m	RAM
4	1	204-040-604-005	VP-FS08551	Outer coupling	m	RAM
5	1	204-040-612-001	N/A	Bolt	m	RAM
6	1	204-040-412-001	N/A	nut	m	RAM
7	1	MS172241	N/A	nut	m	RAM
8	1	204-040-405-001	N/A	Bolt	m	RAM
9	1	204-040-415-015	B13-3279	case	F	RAM
10	1	204-040-425-001	A13-8051	Sleeve	F	RAM
11	1	204-040-185-003	N/A	nut	F	RAM
12	1	204-040-457-003	N/A	nut	F	RAM
13	1	204-040-423-001	SM12-129	Sleeve	F	RAM
14	1	204-040-407-001	N/A	Retainer	F	RAM
15	1	204-040-610-001	N/A	Plate	F	RAM
16						
17						
18						
19						
20						

DATE:

7/15/13

BY:

[Redacted Signature]

Inspector, F.A.A. Repair Station XHCR780K

NDT ALONE DOES NOT CONSTITUTE AIRWORTHINESS

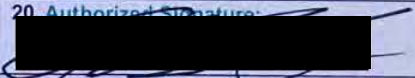
F.A.A. Repair Station XHCR780K - Bell Authorized Customer Service Facility

4930 E. Falcon Drive

Mesa, Arizona USA 85215

Tel: (480) 981-8300

Fax: (480) 981-8400

1. Approving National Aviation Authority/Country: FAA/ UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 108790	
4. Organization Name and Address: HELIPONENTS, Inc.		Bell Helicopter Authorized Customer Service Facility F.A.A. Repair Station XHCR780K 4930 E. Falcon Drive Mesa, Arizona 85215-2544 Tel: (480) 981-8300 Fax: (480) 981-8400			5. Work Order/Contract/Invoice Number: 108790	
6. Item:	7. Description	8. Part Number	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number	12. Status/Work:
1	T/R Gear Box Assy	204-040-012-013	N/A	1	BBC-102	OVERHAULED
13. Remarks: Overhauled T/R Gear Box Assy S/N BBC-102 IAW DMWR 55-0156-127, chap. 4, par. 4-1 thru 4-15, change 16, dated: 29 April 1994. REF: HPI WO #108790 for actual work performed. T.S.N: 3251.0 T.S.O: 0.0						
14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13			19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No.		20. Authorized Signature:		21. Approval/Certificate Number
				 Chad Barta		XHCR780K
17. Name (Typed or Printed)		18. Date (m/d/y):		22. Name (Typed or Printed)		23. Date (m/d/y):
						AUG 19, 2013
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

*Installer must cross check eligibility with applicable technical data.

NSN: 0052-00-012-9005

COMMERCIAL HISTORICAL SERVICE RECORD

[illegible]

Honeywell

QUARTZ



0:299  1/10

HOURS