ABBREVIATED AVIATION ACCIDENT REPORT (AAAR) FOR ALL CLASS C, D, E, F, COMBAT A AND B, AND ALL AIRCRAFT GROUND For use of this form, see DA Pamphlet 385-40; the proponent agency is OCSA.	*REQUIREMENTS CONTROL SYMBOL* CSOCS-309

COMPLETE BLKS 1-18 FOR ALL ACDTS, NO FURTHER ENTRY IS REQUIRED FOR CLASS D, E, AND F ACDTS NOT INVOLVING HUMAN ERROR / INJURY.

1. DATE/CASE NO. OF ACCIDENT	**a. (YYYYMMDD)** 19901118	**b. Time (Lcl)** 23:15

2. **a. Classification** [ ] A [ ] B [ ] C [X] D [ ] E [ ] F D

b. Category [X] Flight [ ] Flight Related [ ] Acft Ground [ ] UAS A - Flight

One-Liner

ACFT STRUCK A ROCK DURING LANDING./

1c. Aircraft Serial Number 8424175	**3. TYPE OF ACFT (MTDS)** CH47D - CH47D

4. PERIOD OF DAY [ ] Dawn [ ] Day [ ] Dusk [X] Night 4 - Night

5.NO ACFT INVOLVED 1	**6. NEAREST MIL INSTALLATION** 99997 Not Reported

7. ACCIDENT LOCATION

a. [ ] On-Post [X] Off-Post N - No	**b.** [ ] On Airfield [X] Not on Airfield N - No	
c. City (Nearest to acdt site) NotAvailableAtConversion	**d. State** 99 - Not Applicable	**e. Country (If not USA)** SA - Saudi Arabia

f. Grid or Latitude / Longitude Not Reported Not Reported Not Reported.Not Reported / Not Reported Not Reported.Not Reported

8. ORGANIZATION INVOLVED

a. Name of Unit	**c. Home Station**	**d. Army HQ**
Not Reported	21128 - Ft Campbell, KY	(b)(3) -FORSCOM

b. UIC (6 Digit Unit Id Code) **Aircraft Serial Number** 8424175

UIC8	UIC7	UIC6	UIC5	UIC4	UIC3	UIC2	UIC1
(b)(3)							
B CO			7/101AB	101AVBD	101ABDV	FORSCOM	FORSCOM

9. ORGANIZATION DEEMED ACCOUNTABLE (If same as block 8 leave blank)

a. Name of Unit	**b. UIC (6 Digit Unit Id Code)**	**c. Home Station**	**d. Army HQ**
Not Reported	(b)(3) - B CO	21128 - Ft Campbell, KY	(b)(3) FORSCOM

b. UIC (6 Digit Unit Id Code) **Aircraft Serial Number** 8424175

UIC8	UIC7	UIC6	UIC5	UIC4	UIC3	UIC2	UIC1
(b)(3)							
B CO			7/101AB	101AVBD	101ABDV	FORSCOM	FORSCOM

10. ESTIMATED ACCIDENT COST	**a. Acft Total Loss**	☐ Yes ☒ No N - No	Serial- 8424175
b. Acft Damage (Excl man hr)	$3,551	**Responsible Owner**	A Army
c. No. Man Hrs 4	**d. Man Hrs Cost** $64	**Aircraft Owner**	A Army
e. Other Damage Mil	$0	**Responsible Owner**	Not Reported Not Reported
f. Civilian Damage	$0	**Responsible Owner**	Not Reported Not Reported
g. Injury Cost $0	**h. Total (this aircraft)** $3,615	**i. Total (All Aircraft)**	$3,615

11. GEN. DATA	**a. Msn**	**(1) Type (Trig, Svc, etc.)** S - Service 13 - Support 53 - Nvg	**(2)** R - Not Reported ☐ Single-ship ☐ Multi-ship	**b. Flight Plan** 0 - VFR ☐ NA ☒ VFR ☐ IFR

c. Digital Source Collector Installed R - Not Reported ☐ Yes ☐ No **If "Yes" Specify Type** Not Reported	**d. Night Vision Device/System In use** Y - Yes ☒ Yes ☐ No **If "Yes" Specify Type** 6 - AN/PVS-6
e. Fire Not Reported ☐ None ☐ Postcrash ☐ Inflight ☐ Other	**f. Flammable Fluid Spillage (If "Yes" for Class A, B, and C acdts, attach DA Form 2397-6)** ☐ Yes ☒ No N - No

g. Field Training Exercise (FTX) C - Conflict/Operational Contingency

☐ Yes ☒ No **If "Yes" Name of FTX** 02 - Desert Shield

Location Description NotAvailableAtConversion

Explosive Involved R Not Reported	**Present** R Not Reported	**Secured** R Not Reported

Source 8 PRAM	**Coder** 108	**Date Received** 11 Mar 1991
USASC Investigate R Not Reported	**Advisor Sent** R Not Reported	**Transaction Date** 13 Mar 1991
ARAS Case ID Not Reported	**Initial Notification Number** Not Reported	**RCAS Case ID** Not Reported
Mil Grid Ref System Not Reported	**Latitude** Not Reported	**Longitude** Not Reported

12. FLIGHT DATA	**Flight Duration**	**Phase of Operation (Enter max of 3 codes from Table 3-4 of DA Pam 385-40 or specify phase (e.g. hover, NOE, etc.)**	**Altitude AGL**	**Airspeed KIAS**	**Aircraft Weight**	**Overgross for Conditions**	
						Yes	**No**
a. At Emergency	**Hours** 1 **Tenths** -2	M - Landing Aircraft Not Reported Not Reported	Not Reported	Not Reported	40000		
b. At Impact /Acdt or Termination	**Hours** #Error **Tenths** #Error	Not Reported Not Reported Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported

13. TYPE EVENTS (Enter max 3 codes from Table 3-2 DA Pam 385-40 or specify type event which best describes the acdt/incdt, e.g. tree strike, genderator failure, eng overspeed, hard landing, fuel exhaustion, dropped cargo, oil cooler bearing failure, etc.)	32 - Other Collision Not Reported Not Reported

14. ACCIDENT CAUSE FACTORS (Enter D, S, or U to identify Definite, Suspected, or Undetermined causes)			
	a.	D	**Human Error (If D or S complete blks 21, 23, &24)**
	b.	N	**Materiel Failure/Malfunction complete blks 21, 23, & 24)**
	c.	N	**Environmental (If D or S Complete blk 17)**

15. SUMMARY (Enter summary of acdt sequence from onset of emergency through termination of flight. For Class D, E, and F, include the type of materiel failure and/or environmental factors.)

DURING POST FLT INSPECTION, RIGHT FORWARD OUTBOARD WHEEL FOUND BROKEN. DAMAGE TO THE BRAKE CALIPER WAS ALSO FOUND. SUSPECT DAMAGE WAS CAUSED BY STRIKING A ROCK DURING NVG LANDING TO UNPREPARED DESERT LZ. WHEEL, TIRE AND BRAKE ASSEMBLY WERE REPLACED. ACFT WAS RELEASED FOR FLT.

16. COMPONENT AND PART FAILURE/MALFUNCTION DATA (part that initiated failure/malfunction)

Aircraft MTDS	None to Report	**Aircraft Serial #**	

Identification	**Major Component**	**Part**
a. Nomenclature		
b. Type, Design, and Series		
c. Part Number		
d. NSN		
e. Manufacturer's Code		
f. Part Serial No.		
g. Cause Failure / Malfunction	**(1) Materiel** **(2) Maintenance** **(3) Design** **(4) Manufacture**	**FGCODE (USACRC)** **TYPEFL** **CAUFL**

17. ENVIRONMENTAL (Chk conditions at time of acdt.)

a. General **(1)** ☐ **IMC** **(2)** ☐ **VMC** **(3)** ☐ **Unk** Not Reported

b. Environmental Conditions

(1) Weather Conditions				**(2) Other Conditions**			
(a) Hail	☐ Not Reported	**(g) Lightning**	☐ Not Reported	**(a) Animals**	☐ Not Reported	**(g) Glare**	☐ Not Reported
(b) Sleet	☐ Not Reported	**(h) Thunderstorm**	☐ Not Reported	**(b) Fowl**	☐ Not Reported	**(h) FOD**	☐ Not Reported
(c) Fog	☐ Not Reported	**(i) Gusty Winds**	☐ Not Reported	**(c) Surface**	☐ Not Reported	**(i) Temperature**	☐ Not Reported
(d) Drizzle	☐ Not Reported	**(j) Freezing Rain**	☐ Not Reported	**(d) Noise**	☐ Not Reported	**(j) Vibration**	☐ Not Reported
(e) Rain	☐ Not Reported	**(k) Other**	☐ Not Reported	**(e) Chemicals**	☐ Not Reported	**(k) Dust**	☐ Not Reported
(f) Snow	☐ Not Reported			**(f) Radiation**	☐ Not Reported		

Aircraft MTDS	CH47D - CH47D	**Aircraft Serial #**	8424175
c. Acft Icing ☐ No ☐ Yes R - Not Reported		**d. Turbulence** ☐ No ☐ Yes R - Not Reported	
Accident Site	**Secured** R Not Reported	**Disturbed** R Not Reported	**Photos** R Not Reported
Multi Ship Number Not Reported		**Position in Flight** Not Reported	
Digital Source Collector Type	Not Reported		

Injuries	Fatal	Disabling	Nondisabling	Missing	NotInjured
Occupants Military	0	0	0	0	4
Occupants Other	0	0	0	0	0
Non-Occupants Military	0	0	0	0	0
Non-Occupants Other	0	0	0	0	0
Total this Acft	0	0	0	0	4

18. BOARD PRESIDENT/ASO/POC (Name, Signature, and Date)	**Grade**	**Branch** Not Reported	**Address and Tel. No.**
	E-mail		

COMPLETE BLKS 19 - 26 FOR ALL CLASS C, COMBAT CLASS A, B, ACFT GROUND CLASS A, B, C, AND ALL CLASS ACDTS INVOLVING HUMAN ERROR/INJURY.

19. MOON ILLUMINATION DATA (For night Class A, B, or C acdts. If blk a is "No", no other entry is required).

a. Moon Above Horizon ☐ Yes ☐ No Not Reported	**b. Moon Visible** ☐ Yes ☐ No Not Reported	**c. Moon (Degrees Above Horizon)** Not Reported
d. Percent of Moon Illumination Not Reported	**e. Moon (Clock Position from Flight Path/Nose of Acft)** Not Reported	

20. WIRE STRIKE DATA (If "no" in blk a, no other entry is required)

Aircraft MTDS	CH47D - CH47D	**Aircraft Serial #**	8424175
a. Wire Strike ☐ Yes ☒ No N - No	**b. WSPS Installed** ☐ Yes ☐ No Z - Not Applicable	**c. WSPS Engaged Wire** ☐ Yes ☐ No Z - Not Applicable	
d. WSPS Cut Wire ☐ Yes ☐ No Z - Not Applicable	**e. WSPS Functioned as Designed** ☐ Yes ☐ No Z - Not Applicable		
Aircraft MTDS	Not Reported	**Aircraft Serial #**	Not Reported
f. Wires Struck No. Not Reported	**Dia (inches)** Not Reported	Not Reported	

21. PERSONNEL DATA (Complete for each crew member with access to flight controls or other personnel injured or having a contributing role in the accident, use additional forms as needed).

a. Name (last, first MI)	(1) SSN	(2) Grade	(3) Gender
PII Data	PII Data	W3 - CWO3	M - Male

(4) Duty	(5) SVC	(6) UIC (Assigned)	(7) Contributing Role ☐ D ☐ S ☐ N ☐ U
PC - Pilot In Command	A - Active Army	(b)(3)	PII Data

(8) On Flt Controls ☐ Yes ☐ No	(9) (a) Lab Test ☐ Yes ☐ No	(9) (b) Results ☐ Pos ☐ Neg
R - Not Reported	R - Not Reported	Not Reported

(10) Activity (Last 24 Hrs)	(a) Hrs Slept Not Reported	(b) Hrs Worked Not Reported	(c) Hrs Flown Not Reported

(11) (a) RL ☐ 1 ☐ 2 ☐ 3	(b) FAC ☐ 1 ☐ 2 ☐ 3	(c) DATE Redeployed from Combat Zone
- Not Reported	R - Not Reported	

(12) Injury (if "yes" complete DA Form 2397-9)	(13) Total Flight Hours (acdt MTDS)	(14) Total Flight Hours
☐ Yes ☒ No I - No Injury	0	0

23. ACDT CAUSE FACTORS (Blk 24 must support all cause factors checked: See DA Pam 385-40 for definition of cause factors)

a. Training Failure	Not Reported	(Stds exist but not known or ways to achieve them not known)	c. Leader Failure	Not Reported	(Stds are known but not enforced)
b. Standards Failure	Not Reported	(Stds not clear, practical or do not exist)	d. Individual Failure	Not Reported	(Stds are known but not enforced)

e. Support Failure: Not Reported (Inadequate equip/facilities/svcs/no or type personnel)

a. Name (last, first MI)	(1) SSN	(2) Grade	(3) Gender
PII Data	PII Data	W3 - CWO3	M - Male

(4) Duty	(5) SVC	(6) UIC (Assigned)	(7) Contributing Role ☐ D ☐ S ☐ N ☐ U
PI - Pilot	A - Active Army	(b)(3)	PII Data

(8) On Flt Controls ☐ Yes ☐ No	(9) (a) Lab Test ☐ Yes ☐ No	(9) (b) Results ☐ Pos ☐ Neg
R - Not Reported	R - Not Reported	Not Reported

(10) Activity (Last 24 Hrs)	(a) Hrs Slept Not Reported	(b) Hrs Worked Not Reported	(c) Hrs Flown Not Reported

(11) (a) RL ☐ 1 ☐ 2 ☐ 3	(b) FAC ☐ 1 ☐ 2 ☐ 3	(c) DATE Redeployed from Combat Zone
- Not Reported	R - Not Reported	

(12) Injury (if "yes" complete DA Form 2397-9)	(13) Total Flight Hours (acdt MTDS)	(14) Total Flight Hours
☐ Yes ☒ No I - No Injury	0	0

23. ACDT CAUSE FACTORS (Blk 24 must support all cause factors checked: See DA Pam 385-40 for definition of cause factors)

a. Training Failure	Not Reported	(Stds exist but not known or ways to achieve them not known)	c. Leader Failure	Not Reported	(Stds are known but not enforced)
b. Standards Failure	Not Reported	(Stds not clear, practical or do not exist)	d. Individual Failure	Not Reported	(Stds are known but not enforced)

e. Support Failure: Not Reported (Inadequate equip/facilities/svcs/no or type personnel)

22. IMPACT/PROTECTIVE/ESCAPES/SURVIVAL/RESCUE DATA (For Class A, B, and C acdts)

Aircraft MTDS	CH47D = CH47D	Aircraft Serial #	8424175

a. Acft Occupiable Space Compromised (If "yes" DA Form 2397-6 is required)		Yes	X	No	N - No
b. Escape/Survival Difficulties (If "yes" DA Form 2397-10 required for the individual)		Yes	X	No	
c. Protective/Restraint Equip Functioned as designed (If "no" DA Form 2397-10 required for the individual)	X	Yes		No	Y - Yes

24. FINDINGS AND RECOMMENDATIONS (See Instructions in DA Pam 385-40 for writing findings and recommendations. Use additional sheet if required)

Not Reported

Not Reported

USACRC use only	Duty	Role	Failure/error Code	SI 1	RM 1	RM 2	RM 3
	Phase of OP	Task/part no.		SI 2	RM 1	RM 2	RM 3

25. LIST OF ATTACHMENTS (CCAD, DA Forms 2397-4, 8, 9, etc.)

26. COMMAND REVIEW (Required for Class A and b combat and all Class C acdts. Use separate sheet for nonconcurrence, additional findings, and recommendations.)

REVIEWER	Organization	Name (Typed/Printed)	Rank	Signature	Comments			
a. Unit Commander	Not Reported	PII Data	Not Reported			Concur		Non-concur
b. Reviewing Official	Not Reported	PII Data	Not Reported			Concur		Non-concur
c. Approving Authority	Not Reported	PII Data	Not Reported			Concur		Non-concur
d. DA Review	Not Reported	PII Data	Not Reported		Approved for entry into ASMIS (YYYYMMDD)			
					Not Reported			

Duty Type	Duty	Role
Flight Crew	PC Pilot In Command	D
Flight Crew	PI Pilot	N
Other	R Not Reported	R

US Army Combat Readiness/Safety Center Recorded Information

Source	Coder	
P - PRAM	108 PII Data	
Received Date	**Established Date**	**Transaction Date**
1991 03 11	1991 03 13	1991 03 13
USASC Investigate	**Advisor Sent**	
R - Not Reported	R - Not Reported	
ARAS Case ID	**Initial Notification Number**	**RCAS Case ID**
Not Reported	Not Reported	Not Reported

** 3W Data **

Duty PC - Pilot In Command **Role** D -

Phase of Operation

-

Task Number **Mistake/Error Code** -

System Inadequacy -

Remedial Measure -

ABACUS DATA

Cause No	Role	Phase of Operation
1	D - Definitely	7B - Landing-Touchdown

Subject	Action Verb	Sub Manner
PPC - Pilot In Command	M01 - Maintained	I5 - Insufficient

Position/Condition	Object Qualifier
X02 - Desert Shield N05 - NVG Used	C3 - Clearance SB - Situation Awareness

Object	Reason Qualifier	Reason Category
ETR2 - Rock(s)/Gravel	Not Reported - Not Reported	N1 - Not Reported

Cause No	Result No	Subject	Action Verb
1	1	M01 - Airframe	S21 - Struck

Position/Condition	Object Qualifier
Not Reported - Not Reported Not Reported - Not Reported	Not Reported - Not Reported Not Reported - Not Reported

Object
ETR2 - Rock(s)/Gravel

A5 Summary

DURING POST FLT INSPECTION, RIGHT FORWARD OUTBOARD WHEEL FOUND BROKEN. DAMAGE TO THE BRAKE CALIPER WAS ALSO FOUND. SUSPECT DAMAGE WAS CAUSED BY STRIKING A ROCK DURING NVG LANDING TO UNPREPARED DESERT LZ. WHEEL, TIRE AND BRAKE ASSEMBLY WERE REPLACED. ACFT WAS RELEASED FOR FLT.