NATIONAL TRANSPORTATION SAFETY BOARD PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT

This form to be used for reporting civil and public aircraft accidents and incidents

BASI	CINFORMA	TION											
Accident/Incident Location								Accident/Incident Date/Time					
Nearest City/Place: Missoula State: MT						IT	Date:		28/2019	Loc	al Time:	13:45	
ZIP: 59808 Country: USA							mm/di	d/yyyy	-	-	MOT		
Latitude: 46*55.05'N Longitude: 114*05.80'W										111	ne Zone: _	IVIST	
(Enter in decimal degrees or degrees:minutes:seconds)						Collisio	n with	Other Air	eraft: C	Midair	OOn-groun	nd O None	
AIRC	RAFT INFO	RMATIO	N										
Registration Number: N 4476B						☐ IFR-Equipped and Certified ☐ Commercial Space Flight							
Manufacturer: Cessna				-				d Aircraft					
Model:									ross Weigh		100	lbs	
(passessing)	Number: 26820	Constitution of							ne of Accid				lbs
1	Manufacture:											ew Scats: 1	
Amate	ur-Built: OYes ONo		OKit/Plans Mal Original Design	ke:			Cabin C				Passenge	r Seats: 3	
-					-			r of E	ngines: 1				
OGlider			hat apply) d Special al Restrict Limite on Provision Experiation Experiation Authorization	eted d ional I Flight mental I Light-Spo mental Ligh	ht-Sport	Landing Ge (Check all that Tricycle Amphibia Emergence Float Hull Other Lau	n apply) Retractab n y Float mch/Reco	DT DF DS DS Very Sy	ki ki/Wheel stem Jnknown	O Reci O Turb O Turb O Turb O Turb O Elect Fuel Syr	o Jet o Fan oric stem Type uretor	OLiqu OSolie OHybr ONone OUnko	nown ing) -Injected
Engine	Engine Manufa	cturer	Engine Model/Series	Manufacturer's Serial Number				te Afg. dd/yyyy	O lbs of	power or	Total Time (hours)		Since: Overhaul (hours)
Eng, I	Continental		0-300-A	10333-D-5-A		D-5-A	1955		145		3967	3.8	1884.7
Eng. 2	-						-					No. of the last	
Eng. 3					_		-						
Eng. 4 — Last Inspection Type O100-Hour OContinuous Airworthiness OAAIP OConditional Inspection OAnnual OUnknown			ction				Pitch Propeller 2 OFixed Pitch OControllable Pitch OGround Adjust Manufacturer: Model:						
Airframe Total Time: 3967.9 hrs hours measured at (Select one) O Last Inspection O Time of Accident/Incident Type of Maintenance Program (Select one) O Annual O Conditional (Amateur-built only) O Manufacturer's Inspection Program O Other Approved Inspection Program (AAIP) O Continuous Airworthiness O Other, specify: Description of Fire Extinguishing System				If Yes: ELT Ma Model of TSO No. Was EL' Was EL' Did ELT If active Did ELT If not ac	r Part No : OC91 OC126 T still mo T still cor T Activate ated:	er: Emerging a: ELT406GP: (121.5 MHz) Content in aircra inected to anter ? OYes Of .ocating Aircra Impact Data Fire Dama Battery Extended to Inchested	SOC91a (12 ft? OV. mna? OV. No ft: OVe. mage	es ONe es ON	AD Airl Ang	S-B frame Para gle of Atta topilot a Recorde etronic Fli etronic Pri ndheld GP ads Up Dis board Wea ellite Track II Warning	chute ck Indicate r ght Bag or altifunction mary Fligh S splay ther king Devic	Handheld Do n Display ht Display	

OWNER/OPERATOR INFORMA	ATION					
Registered Aircraft Owner		City:				
Name: Montana Flying Service		State: MT ZIP: 59808				
Fractional Ownership Aircraft: O Yes ©	No	Country: USA				
Operator of Aircraft Same As Re	gistered Owner	☑ Same Address as Registered Owner				
Name: Bruce Doering		City: Missoula				
Doing Business As: Montana Flying Service		State: MT ZIP: 59808				
Air Carrier/Operator Designator (4 Charact	er Code):	Country: USA				
Operating Certificates Held (Check all that apply)	Regulation Flight Conducted Un	der Revenue Operation for FAR 121, 125, 129, 135 (Select one for each group)				
☑ None □ Flag Carrier Operating Certificate (FAR 121) □ Supplemental □ Air Cargo □ Foreign Air Carriers (FAR 129) □ Rotorcraft External Load (FAR 133)	OFAR 91 OFAR 129 OFAR OFAR 103 OFAR 133 OFAR OFAR 121 OFAR 135 OFAR OFAR 125 OFAR 137 OFAR OFAR 91 Special Flight	431 O Non-Scheduled or Air Taxi O International				
Commuter Air Carrier (FAR 135)	O Non-US, Commercial O Non-US, Non-commercial	O Mail Contract Only				
□ On-Demand Air Taxi (FAR 135) □ Commercial Air Tour (FAR 136) □ Agricultural Aircraft (FAR 137) □ Pilot School (FAR 141) □ Certificate of Authorization or Waiver (COA) □ Commercial Space Transportation Experimental Permit □ Commercial Space Transportation License	OPublic Aircraft (Select one) O Armed Forces	Purpose of Flight for FAR 91, 103, 133, 137 (Select one) O Aerial Application O Aerial Observation O Air Drop O Air Race/Show O Instructional				
Other Operator of Large Aircraft	OUnknown	O Business O Other Work Use O Business O Personal				
		O Executive/Corporate O Positioning				
Revenue Sightseeing Flight	Air Medical Flight	O External Load O Skydiving O Ferry				
O Yes ⊙ No	OYes ⊙ No					
AIRPORT INFORMATION (Fill in	if accident/incident occurred on ap	proach, landing, takeoff, departure, or within 3 miles of an airport)				
Airport Name: Missoula International		Distance From Airport Center: 700' sm				
Airport Identifier: KMSO		Direction From Airport: On Airport degrees true				
Proximity to Airport: O Off Airport/Airstr	ip On Airport/Airstrip ON/A	Airport Elevation: 3206' ft. msl				
Runway Information		Condition of Runway/Landing Surface (Check all that apply)				
Runway ID: 12 (L/R/C) Length: 95	01" ft Width: 150' ft	☑ Dry ☐ Snow-Compacted ☐ Water-Calm				
Runway/Landing Surface (Check all that Asphalt	adam Water	☐ Holes ☐ Snow-Crusted ☐ Water-Choppy ☐ Ice Covered ☐ Snow-Dry ☐ Water-Glassy ☐ Rough ☐ Snow-Wet ☐ Wet ☐ Rubber Deposits ☐ Soft ☐ Slush-Covered ☑ Vegetation ☐ Unknown				
Approach/Departure Segment (Select one)					
OTaxi OVFR Departure OTakeoff OIFR Departure Pro-	OOn Instrument Ap	oproach OBase OFinal OCrosswind OCrosswind OLow Approach OGo Around OAborted Landing (after touchdown) OUnknown				
IFR Approach (Check all that apply)		VFR Approach (Check all that apply)				
☑None		☑None				
□ ADF/NDB □ PAR □ SDF □ Sidestep □ VOR/TVOR □ ILS □ VOR/DME □ Localizer Only □ TACAN □ LOC-back course □ RNAV	□MLS □Practice □LDA □GPS □ASR □Visual □Contact □Circling □Unknown	□ Traffic Pattern □ Stop and Go □ Straight-In □ Touch and Go □ Valley/Terrain Following □ Simulated Forced Landing □ Go Around □ Forced Landing □ Full Stop □ Precautionary Landing □ Unknown				

"FLIGHT CREWME	MBER 1" INFO	RMATIO	N							
"Flight Crewmember 1" I			ccident/Inc	ident Check Pilot	O Fligh	t Engineer	O Other F	light Crew		
"Flight Crewmember 1" v	vas pilot flying	Yes 🛮 No	4							
"Flight Crewmember 1" I First Name: Bruce	dentification				ity of Res	sidence: Mi	ssoula			
Middle Initial: H.						sidence. <u>Ivii</u>		ZID. E0000		
Service of the servic				S	tate: MT			ZIP: 59808	-	
Last Name: Doering					ountry:	USA	_			
Age at time	of Accident/Inciden		Date of B tificate Num				ひょううつ			
Degree of Injury	Seat Occupie	ed		Res	traint Ty	pe		1	Inflatable F	testraints
O None O Fatal O Minor O Unknown O Serious	O Left O Right O Center	O Front O Rear O Single	O Unknoy	vn	O None		O None	,	☑ Not Inst	
Pilot Certificate(s) (Check	all that apply)				O 3-poin		O3-point		Not Dep	ployed
□ None □ Fligh	nt Instructor	ommercial irline Transpor light Engineer			O 4-poin O 5-poin O Unkno	it	O 4-point O 5-point O Unknow	vn	☐ Deploye	
Principal Occupation O Pilot O Other		ite Class 3 Driver's Licens	se (Sport Pilot	only)	Medical Certificate Validity O Without limitations/waivers O With limitations/waivers O N/A 01/23/2019				19	
O Unknown		Unknown		Os	pecial Issu	iance			mm/dd/y)	עעו
Date of Last Flight Revie or Equivalent, Including	N		Review Airc	raft						
FAR 121/135 Checks:	06/18/2019	Make: Model:		_						
	mm/dd/yyyy		1				2017			
Airplane Rating(s) (Check all that apply) None Single-Engine Land Single-Engine Sea Multiengine Land Multiengine Sea	Other Aircraft (Check all that ap None Airship Balloon Glider Gyroplane Helicopter	CAPTURE CONTRACTOR STREET		pter		(Check all i	e Single-Eng e Multi-Engi ne	ine 🗆	Instrument Instrument Helicopter Glider Sport	
Type Ratings						Student E	ndorseme	nts (Include	dates)	
Flight Time (Enter appropriate to flow the following to flow the flow flow	ate All	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instr	ument Simulated	Rotorcraft	Glider	Lighter Than Air
Total Time	2607	474	1165	18.7	44.		54.9	1444	0	
Pilot in Command (PIC)	1708	474		1111						
Time as Instructor	70.5	6.8	70.5							
This Make/Model	100000		1000	1-		1				M Coll
Last 90 Days	19.9	4.6								
Last 30 Days	4.6	4.6								
Yan Maria	9	9			1		7.7			

"FLIGHT CREWME	MBER 2" INFO	RMATIO	V							
"Flight Crewmember 2" I OPilot OCo-Pilot			ccident/Inci	dent Check Pilot	OFlig	ht Engineer	OOther F	light Crew		
"Flight Crewmember 2" v	vas pilot flying 🛭	Yes DN	io .							
"Flight Crewmember 2" I First Name: Douglas	dentification			Ci	ty of Re	sidence:	/issoula			
Middle Initial: K								- FARAS		_
				Str	ate: Mo			p. 59802		
Last Name: Wornack		0.0			ountry:	United S	tates			
Age at time of	f Accident/Incident	68	Date of Bir	rth:		*	nm dd 3355			
		Certi	ficate Numb	e						
Degree of Injury	Sent Occupie	The Later of the l	_	and the second second	traint T	ype			Inflatable I	Restraints
O None O Fatal O Minor O Unknown O Serious	O Right O Center	OFront ORear OSingle	OUnknow	in .	Availab	1	Used O None		☑ Not ins	
Pilot Certificate(s) (Check	all that apply)				O1.ap		O Lap only O 3-point		☐ Installe	
□ None □ Fligh	nt Instructor Co	mmercial rline Transport ight Engineer	US Mil		Ø 4-poi O 5-poi O Unki	int int	4-point 5-point Unknow	a l	Deploy	od
Principal Occupation	Medical Certifica	te		Med	dical Ce	rtificate \	alidity		Date of La	st Medical
O Pilot		Jass 3		@ V	Vithout li	mitations/w	aivers OU	nknown	06/14/20	10
Other Cuknown		Driver's Licens	se (Sport Pilot		Vith limit pecial Iss	ations/waiv	ers ON	/A	mm/dd/y	
Medical Certificate Limit		DEIRONE		108	peciai isi	mance			min uu y	""
Medical Certificate Speci N/A Date of Last Flight Revier or Equivalent, Including			Review Airc							
FAR 121/135 Checks:	04/28/2018	Make:	Piper Arrow							
	mm'dd'yyyy	Modela	PA28R-200							
Airplane Rating(s) (Check all that apply)	Other Aircraft (Check all that app			ent Rating(s))		or Rating(s)			
☐ None ☐ Single-Engine Land ☐ Single-Engine Sea ☐ Multiengine Land ☐ Multiengine Sea	None Airship Balloon Glider Gyroplane Helicopter		□ None □ Airplar □ Helico □ Powers	pter					Instrument A Instrument F Holicopter Glider Sport	
Type Ratings					-	Student	Endorsemen	w duchola o	Later)	
Commercial Pilot- Airplane : Right Instructor - Airplane S Ground Instructor - Advance	ngle Land	e Land, instr	ument Amplat	ne				a intende		
Flight Time (Enter appropriation of hours in each box)	All Aircraft	This Make	Airplane Single Engine	Airplane Multiengine	Night		Simulated	Rotorcraft	Glider	Lighter Than Air
Total Time	1071.8	2.6	1002.4	69.4	-				7	
Pilot in Command (PIC)	980.8	0	947.3	38.4	-48	6 108	.3 73.2			
Time as Instructor	55.8	0	55.8	0		0	0 1.9			
This Make/Model						0	0 0		-	
Last 90 Days	33	.9	3.3	0		0	0 0			
Last 30 Days	9	9	9	0		0	0 0			1
Last 24 Hours	.9	9	.9	0		0	0 0			

Chew Name and Ado		IDENS	(Exclusive	O OI CUBIN OIL	THE PART SELECT	tus tollowin	g information)			
	dress						Seat Occupie	d	Injury	
First Name: City of Residence: Middle Initial: State: ZIP: Last Name Country:						O Left O Center O Right	O Front O Rear O Single O Unknown	O None O Minor O Serious O Fatal O Unknown		
Pilot Certificate(s) (Check all that apply) None Flight Instructor Commercial Airline Tran Student Sport Flight Eagin				port For	Military		Restraint Typ Available O None O Lap Only O 3-point	O None O Lap Only O 3-point	Inflatable Restraints Not Installed Installed Not Deployed	
Type Rating/Endors		□ No	The state of the	light Time at Accident/Inci		hrs	O 4-point O 5-point O Unknown	O 4-point O 5-point O Unknown	Deployed Unknown	
Crew Name and Ad	dress						Seat Occupie	d	Injury	
First Name: Middle Initial: Last Name:		Stat	te:	nce: 2	ZIP:	_	OLeft OCenter ORight	O Front O Rear O Single O Unknown	O None O Minor O Serious O Fatal O Unknown	
Pilot Certificate(s) None Private Student Type Rating/Endor	☐ Flight Instructor ☐ Recreational ☐ Sport	☐ Air	100000000000000000000000000000000000000	For	t the Time	hrs	Restraint Typ Available O None O Lap Only O 3-point O 4-point O 5-point O Unknown	O None	Inflatable Restraints Not installed Installed Not Deployed Deployed Unknown	
PASSENGER(S)				-				Cinkilowii		
Name and Address						2.101	3)	Inflatable		
L. T. C.				Seat	Injury	Restraint T	Гуре	Restraints	Age	
First Name: Middle Initial: Last Name: OCrew		ZIP:		OLeft OCenter ORight OUnknown Row:	ONone OMinor OSerious OFatal OUaknown	Available ONone OLap Only O3-point O5-point OUnknown	Used O None C Lap Only O 3-point O 4-point O 5-point		Under 5 years If Under 5,	
Middle Initial: Last Name:	State: Country: OPassenger City: State: Country:	ZIP:	Other	OLeft OCenter ORight OUnknown	O None O Minor O Serious O Fatal	Available ONone OLap Only OLap Only OLap Only OS-point OUnkniwn Available ONone OLap Only O3-point O4-point O5-point	Used O None Lap Only O 3-point O 4-point O 5-point O Unknown Used O None Lap Only O 4-point O 4-point O 5-point	Not Installed Installed Not Deployed Deployed	Under 5 years If Under 5, O Child Restrain O Lap-Held O Unknown Under 5 years If Under 5, O Child Restrain O Lap-Held	
Middle Initial: Last Name: OCrew First Name: Middle Initial: Last Name:	State: Country: OPassenger City: State: Country: OPassenger City: State: State:	ZIP:	Other	OLeft OCenter ORight OUnknown Row: OLeft OCenter ORight OUnknown	O None O Minor O Serious O Fatal O Unknown O None O Minor O Serious O Fatal	Available ONone OLap Only O3-point O5-point OUnknown Available ONone OLap Only O3-point O4-point O5-point OUnknown Available ONone OLap Only O3-point O4-point O4-point O4-point O4-point O4-point O4-point O4-point	Used O None O Lap Only O 3-point O 4-point O 5-point O Unknown Used O None C Lap Only O 5-point O Unknown Used O None C Lap Only O 5-point O Unknown Used O None O Lap Only O 3-point O 4-point O 5-point O 5-point O 5-point	Not Installed Installed Not Deployed Deployed Unknown Not Installed Installed Doployed Deployed Deployed Deployed	Under 5 years If Under 5, O Child Restrain O Lap-Held O Unknown Under 5 years If Under 5, O Child Restrain O Lap-Held O Unknown	

FLIGHT ITINERARY I	NFORMATION	1						
Last Departure Point Airport ID: KMSO City: Missoula State: MT Country: USA Type of ATC Clearance/Service (Check of		ime: 13:45 City: sime Zone: MST State Cour		on Same		O None Compan Military VFR Activated?	VFR O Unknown OYes O No O Unknown	
	Special VFR IFR	□ Spe	cial IFR R On Top		☐ VFR Flight Foll ☐ Traffic Advisor		☐ Cruisc ☐ Unknown / NA	
☐ Class B☐ Class C☐ Class D☐ Class E☐	Class G Demo Area Warning Area Prohibited Area Restricted Area	Mili	itary Operations out Advisory A Fraining Area SA R 93		□Special □Air Traffic Cont □Unknown	rol Area	Altitude of In-Flight Occurrence: 3206' ft msl	
WEATHER INFORMA		ACCIDEN	MCIDE		F. O.			
Source of Pilot Weather Inf (Check all that apply) National Weather Service Flight Service Station TV/Radio Automated Report Commercial Weather Service On-Board Weather	☐ Com ☐ Mili ☑ Inter ☐ Non	tary net e		Facility ID: 6 Observation 7 Time Zone: 6 Distance from	bservation Facility KMSO Time: — n Accident Site: 0 m Accident Site: —		nm	
Basic Conditions OVMC OIMC OUNKnown		Light Conditi ODawn ODay	ODusk ONight	(()	rk Night OUr ight Night	nknown		
O Few (O Thin Broken O Thin Overcast O Unknown	Ceiling O None (Clear) O Broken O Overcast Ceiling Heigh 5,000'	C	Obscured Indefinite Unknown		8 (ting: 30.16	(C) or 30 (F) C) or 18 (F) in. Hg MB	
Wind Direction	Wind Speed	1	Wind Gust	s	Visibility	10		
□ Variable -or- Direction: — degrees true	☐ Calm ☐ Light and Varia -or- Speed:	able kts	✓ Not Gusti		RVR	:: 7:	fect	
Intensity of Precipitation OLight OModerate OHeavy ON/A OUnknown	Type of Precipit None Rain Snow Hail Rain Showers		hat apply) Freezing Snow Snow Ice Pels Freezi	ng Rain		Visibility (Check all that apply) Fog Ground Fog Haze Ice Fog Smoke Unknown	
Icing Forecast Amount O None O N/A O Trace O Light O Mixed O Severe O Unknown	vn	Icing Actual Amount O None O Trace O Light O Moderate O Severe O Unknown	Type O N/A O Rim O Clea O Mix O Unk	ne ar ced	Turbulence Type (Check to Discount Check to Disc	all that apply)	Severity Light Moderate Severe	
NOTAMs (D and FDC), A	AIRMETS, SIGN	METS, PIREP	s in effect a	t the time of	the accident/inci	dent:		

DAMAGE	TO AIRCRAFT	AND OTHER PE	ROPERTY		
Aircraft Dam O None O Minor	age Substantial Destroyed Unknown	Aircraft Fire None In-Flight On-Ground	O Both Ground and In-Flight O Fire at Unknown Time O Unknown	Aircraft Explosio None In-Flight On-Ground	O Both Ground and In-Flight O Explosion at Unknown Time O Unknown
			y (Use additional sheet if necessary) stabilizer, right main gear and fus	selage. Airport proper	ty was not damaged.
NARRATIV	E HISTORY OF	FLIGHT (Please type	or print in ink)		
Describe wh wreckage dis destination. F	at occurred in chron tribution sketch if pe Provide as much deta	nological order, includertinent. Attach extra shail as possible.		and and location, serv	
101 video an We topped left seat on th The taked believe the ri back and the No fuel was I	d talking about tax I off the fuel tanks ne controls, no one ff roll was normal i ght wing was flying ground loop starte eaking from the air	iing, TO and Landing and taxied out to taxion else was on board. up to approx 50 mph, g, left main wheel still ed. After the plane car ccraft. Tower must ha	way G for a runway 12 departure at that point we started to veer on the ground. As we exited the me to stop, we secured the engi- ve been watching as they called	e. I was in the right se sharply to the left of the runway into the dirt in the and departed the parter to the the crash crew to the	eat working the radio, Doug in the ne runway. I said "Abort." I s when the throttle was brought plane out our respective doors.

RECOMMENDATION (How	could this	accident/incident have been p	revented?)		FOREST	
Operator/Owner Safety Recomm	endation					
. It is unclear to me why the ai felt as though the A/C was stee The only solution that comes to tricycle to conventional gear.	ered left. Th	nere was not any time for me	to correct.	We had just sp	pent 2 hours on tail	wheel ground training.
MECHANICAL MALFUN	VCTION/	FAILURE (If more space is	naedad co	antinua on sana	rate cheet)	
Was there Mechanical Malfund			needed, Co	munue on sepa	rate sneet)	Total Time/Cycles
(If yes, list the name of the part, man			ilure.)			On Part
N/A						Hours
						Cycles
						Time Since This Part
						Inspected/Overhauled
						Hours
lik atta						
FUEL & SERVICES INF	ORMATI	ON				
Fuel on Board at Last Takeoff		Fuel Type		21.3	Annual Property of the Control of th	
(Convert from pounds, as necessary) Full Tanks 37	Gallons	O 80/87 O 115/1 ⊙ 100 Low Lead O Jet A O 100/130 O Jet A-		O Jet B O JP8 O Automotive	O Other, specify	
Other Services, if Any, Prior to None	Departure					
EVACUATION OF AIRC	RAFT					
Was an emergency evacuation	of the aircr	aft performed?	☑ No			
Method of Exit - Describe how	the occupan	ts exited and how many occupa	nts evacuat	ed each location		
Climbed out normally						
			1			
OTHER AIRCRAFT - C	OLLISIO	N (If air or ground collision o	ccurred, co	mplete this sec		
Aircraft Registration Number	Manufact	urer:			The second secon	nage to Other Aircraft Destroyed Minor
N/A	Model: _					Substantial None
Registered Owner of Other Air	reraft		Pilot of	Other Aircraft		
Name:						
City:ZIP:			State:		_ZIP:	
Country:			Country	r:		

ADDITIONAL INFOR	MATIC	ON (Please type or print in ink)		
		on (Please type or print in ink) is needed for any answers.		
Date of this Report N	ame of	HE ABOVE INFORMATION IS COMPLETION FOR THE PROPERTY OF THE PRO	ETE AND ACCURATE TO THE E	BEST OF MY KNOWLEDGE
01/03/2020 nun/dd/yyyy	ignatur or	E		
Signature:		perator is Filing Report o electronically sign this document	Title:	
		FOR NTSB	USE ONLY	
NTSB Accident/Incident	it No.	Reviewed by NTSB Regional Office WPR	Name of Investigator E Simpson	Date Report Received 1/3/20