

Aircraft Record General Information

AIRFRAME

Manufacturer MOONEY Model M 20 K
 Serial 25-1160 Registration Number * N 33RK
 Date of Manufacture 1988

Engine(s) currently installed:

Manufacturer TELE. CONTINENTAL Model TS10-360-MPX1 Serial 31716-1
 Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer MCCAULEY Model 2A34C221-B
 HUB Model 2A34C221 Serial 901121 Serial _____
 Blade Model G-90DHC-16E Serial JL152 Serial JL171 Serial _____
 Blade Model _____ Serial _____ Serial _____ Serial _____

* ORIGINALLY REGISTERED N97322 1/30/88
 AUSTRALIAN REGISTERED VH-5XQ 5/26/88

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

Acft SW# 25-1160		Altimeter/Static System Certification				HOBBS 01260.7			
Merlin's Avionics Service Nashville Int'l Airport Nashville, Tennessee FAA CRS #Z6MR586Y MAS Form #4		Work Order No. <u>656</u>		Acft Reg. No. <u>N33RK</u>					
		Aircraft Type <u>Mooney</u>		Altimeter Position <u>#1</u>					
		Altimeter P/N# _____		S/N# _____					
		Date <u>6-3-06</u>							
		Signed <u>Merlin Dwyer</u>							
Altitude	Reading	Tol	Altitude	Reading	Tol	Erratic	Tol.	Press	Diff. (Tol. 25 Ft.)
-1000	-1000	20	14,000	13980	100	1K	+20	70	28.10 -1727 -1727
0	0	20	16,000	15980	110	2K	+25	70	28.50 -1840 -1340
500	490	20	18,000	17985	120	3K	+20	70	29.00 -863 -863
1000	1000	20	20,000	19970	130	5K	+20	70	29.50 -392 -392
1500	1505	25	22,000	/	140	10K	+20	80	29.92 0 0
2000	2000	30	24,000	/	155	15K	+20	90	30.50 531 +531
3000	3000	30	26,000	/	160	20K	+20	100	30.90 892 +892
4000	4005	35	30,000	/	180	25K	/	120	30.99 979 +979
6000	6000	40	35,000	/	205	30K	/	140	
8000	8000	60	40,000	/	230	35K	/	160	
10,000	9990	80	45,000	/	255	40K	/	180	
12,000	11995	90	50,000	/	280	50K	/	250	
Hysteresis: 1st Test Point @ 50% of Max. Alt. (Tol. 75 Ft.)						+20		Case Leak (PPM Tol. 100 Ft.)	
2nd Test Point @ 40% of Max. Alt. (Tol. 75 Ft.)						+20		0	
								After Effect (Tol. 30 Ft.)	
								+10	
This Altimeter/Static System meets the requirements of FAR 91.411 and FAR Part 43, Appendix E.									

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Transponder Certification

Merlin's Avionics Service

Nashville Int'l Airport Nashville, Tennessee

FAA CRS #Z6MR586Y MAS Form #3

Work Order No. 656 Acft.Reg.No. N33AK
 Aircraft Type Mooney Transponder Position #1
 Transponder P/N# KT76A S/N#

I certify the ATC Transponder tests and inspections required by
 FAR 91.413 were performed this date and found to comply with
 Part 43, Appendix F.

Details of this inspection are on file at this repair station.

Date 6-3-06

Signed Merlin's Avionics

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

Total Aircraft Time in Service 1260.7 -- Hourmeter 1260.7

Received Mooney M20K, Australian Registration No. VH-SXQ, issued 26 May 1988. Aircraft Serial No. is 25-1160. Aircraft is equipped with Teledyne Continental TSIO-360-MB(1) engine, Serial No. 317161 and McCauley 2A34C221-B propeller, Serial No.901121 with G-90DHC-16E blades, Serial Nos. JL152 and JL171. Aircraft is also equipped with auxiliary fuel cells installed 14 Mar. 1988 at Mooney factory in accordance with Jose Monroy installation instructions entitled "Installation instructions for long range fuel tanks in accordance with STC SA1913SO. Aircraft is further equipped with S-TEC-60-2 flight guidance system installed 27 Jan. 1988 at Mooney factory in accordance with STC-SA4713SW. Verified that the original US registration No. was N97322. Secured new US Registration No. N33RK. Removed Australian registration markings and installed US registration markings N33RK on both sides of fuselage per FAR 45.21.

Verified that aircraft, engine, propeller, and all appliances, placards, and required equipment comply with the requirements of Aircraft Specification 2A3, Rev. 47, dated July 31, 2002. Verified that the installed long range fuel tanks comply with Supplemental Type Certificate SA1913SO and the installed flight guidance system complies with Supplemental Type Certificate SA4713SW.

Verified removal of ferry fuel system installed per Australian Special Flight Permit No. NSW 05/197, dated October 17, 2005 and reinstallation of second row seats. Replaced ELT battery (D&M ELT 8.1). Next ELT battery replacement is due July 2008.

Verified correctness of Equipment List. Weighed aircraft and computed weight-and-balance. Basic empty weight is 1993.5 lb. CG is 44.0 in. Empty moment is 87,714 in-lb. Gross weight is 2,900 lb. Useful load is 906.5 lb.

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
DATE				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Determined the status of Airworthiness Directives as follows: *221*
 AD 85-24-03 Fuel Tank Bays, Rib Station Insp *per c/w per instructions No/120/123 1/18/96*
 AD 95-17-06 Exhaust System Cracks Not Applicable - Serial No. & Tanks not resealed
 AD 95-18-12 Fuel Selector Valve Not Applicable - STC SA5691NM not installed
 AD 98-21-96 MLG Leg Bracket Not Applicable -- Suspect part not installed
 Not Applicable - Serial No.

Verified from maintenance records compliance or complied with the following Airworthiness Directives:
 AD 76-07-12 Bendix Switches by functional test. Due again 100 hrs. (1360.7hrs)
 AD 88-25-11 Baggage Door Mechanism Prev. Comp. With per SBM20-239A @ TT 260.5
 AD 98-24-11 Aileron Center Control Links Prev. Comp. With per SBM20-264 @ TT 995.5

Cleaned aircraft. Cleaned and lubricated wheel bearings. Lubricated landing gear, control, and trim systems. Serviced battery, brakes, tires, shimmy damper, and landing gear struts.

Submitted FAA Form 8130-6 Application for Airworthiness Certificate and FAA Form 8130-9 Statement of Conformity.

I certify that this aircraft has been inspected in accordance with a 100-hour inspection and was determined to be in airworthy condition.

David B. Stevenson David B. Stevenson, A&P 1821216 *1/12/07*

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

James Kenneth Davis James Kenneth Davis 411600154 A&P, IA *15 JAN 2007*

YEAR: 2007 DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
01/22/2007	1260.7 Hz.			<p>Aircraft prepared for Import C of A certification and found to meet all applicable requirements of FAR 21.183(d) See memo. logbook entries for certification</p> <p>THIS AIRCRAFT COMPLIES WITH ALL APPLICABLE REQUIREMENTS FOR Import C of A Standard AND IS ELIGIBLE FOR THE ISSUANCE OF THIS Standard Airworthiness CERTIFICATE</p> <p>TOTAL TIME 1260.7 DATE 01/22/2007</p> <p>SIGNED: <u>Lonnie A. Phillips</u></p> <p>LONNIE A. PHILLIPS DART 710614 SO</p>

YEAR:

RECORDING
TACH
TIMETODAYS
FLIGHTTOTAL
TIME IN
SERVICE**Description of Inspections, Tests, Repairs and Alterations**

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

DATE

Date: 1/14/07

Tach: ---

HM: 1261.5

Reg No: N13RK

Ser. No: 25-1160

Horizon Avionics, Inc.

2361 Airport Highway, #3, Alcoa, TN 37701. Tel: (865) 980-7858 Fax: (865) 980-7701

Removed King KX165, KI206. Installed Garmin GNS430W IAW STC SA029331A, see FAA Form 337 this date. Replaced existing Garmin GPS antenna with Garmin GA35 antenna, replaced DG Castleberry DG with Century unslaved HSI. Removed King KMH7 ADP system, these are minor changes. All work performed in accordance with manuf. Installation manuals and AC 43.13. Ground and flight tested OK. The Garmin GNS430W is approved for IFR enroute, terminal, non-precision approach, and GPS LNAV/VNAV/LPV approaches. Placed the FAA Approved Flight Manual Supplement for the GNS430W with the POH/APM. Checked compass compensation - OK. The ICA referenced in the FAA Form 337 are now part of the aircraft's inspection/maintenance requirements. Revised W&B and equipment list.

MAINTENANCE RELEASE

The Airframe Or Appliance Identified Above Was Repaired And Inspected In Accordance With Current Maintenance Rules Of The Federal Aviation Regulations And Is Approved For Return To Service. Pertinent Details Of This Repair Are On File At This Repair Station Under Work Order 3046.

Signed:

Tech. No:

333157

Date:

3/14/07

For Horizon Avionics, Inc. FAA CRS F30R150X

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

Total Aircraft Time in Service 1271.7 - Hourmeter 1271.7

Cleaned aircraft. Serviced battery, brakes, and tires. Next ELT battery replacement (D&M ELT 8.1) is due July 2008.

Corrected Equipment List in Airplane Flight Manual. Posted new Weight and Balance in Aircraft Maintenance Log under "Current Weight and Balance Information" and in Airplane Flight Manual. Noted previous Weight and Balance calculation as "Superseded 02-07-08". New Basic Empty Weight is 1,985.6 lb. New CG is 43.96 in. New Empty Moment is 87,284.77 in-lb. Gross Weight is 2,900 lb. New Useful Load is 914.4 lb.

Complied with the following Airworthiness Directive:

AD 76-07-12. Bendix Switches by functional test. Due again in 100 hrs. (1371.7 hrs)

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

James Kenneth Davis James Kenneth Davis 411600154 A&P, IA 07 FEB 2008

3 March 2008	1272.2		1272.2	REPLACED STARTING BATTERY GILL G-242 SN G02379094 JKHavin 411600154 A&P.
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YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

20 March, 2008 Total Aircraft Time in Service 1272.7 - Hourmeter 1272.7

Installed corrected Weight & Balance calculation and Supplemental Equipment List Revision from Horizon Avionics, Inc. and corrected equipment list in Section VI in aircraft's Pilot Operating Handbook. Also noted corrected data in "Current Weight and Balance Information" section of aircraft logbook. New Basic Empty Weight is 1,990.10 lb. New CG is 43.90 in. New Empty Moment is 87,360.37 in-lb. Gross Weight is 2,900 lb. New Useful Load is 909.90 lb.

James Kenneth Davis

James Kenneth Davis 411600154 A&P

5/5/08	1272.7	1272.7	Removed & Re-installed TARE AMMETER INDICATOR OVERHAULED BY TELEDYNE CONTROLS PART NO. 0326-004 Q/N 7170. JK Davis 411600154 A&P
5/10/08	1273.0	1273.0	FOUND AD 85-24-03 PREV. COMPLIED WITH PER RECORD IN AUSTRALIAN MAINT POWERS ON 8/8/96 IS AUSTRALIAN AD/M20/43.1. CORRECTED THIS LOGBOOK ENTRY DATED 1/15/07 JK Davis 411600154 A&P-10

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

Date: 6/25/08
Tach: ---
ID#: 1271.7

Reg. No: N33RX
Ser. No: 25-1160

Horizon Avionics, Inc.

2361 Airport Highway, #3, Alcoa, TN 37701 Tel: (865) 980-7858 Fax: (865) 980-7701

Replaced pilot's United 5934PA-1 s/n JD902s/n 4670 exchange unit United 5934D-1 s/n 445800 certified to 20k ft per FAR 43 App. E. Automatic pressure altitude reporting system, L (X), R (I), has been tested as required by FAR 91.411 IAW FAR 43, App. E, Para. (c) and found to comply. Static pressure system, L (X), R (I), has been tested as required by FAR 91.411 IAW FAR 43 App. E, Para. (a) and found to comply. ATC Transponder tested as required by FAR 91.411 IAW FAR 43, App. F and found to comply. Make: King Model: RT76A S/N: 61562.

MAINTENANCE RELEASE

The Airframe Or Appliance Identified Above Was Repaired And Inspected In Accordance With Current Maintenance Rules Of The Federal Aviation Regulations And Is Approved For Return To Service. Pertinent Details Of This Repair Are On File At This Repair Station Under Work Order No. 3731.

Signed: [Signature] Cert. No: 313768 Date: 6/25/08
For Horizon Avionics, Inc. FAA CRS F30R150X

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

30 July, 2008

TTIS: 1279.5

Repaired engine compartment flexible baffling. Sealed left and right fuel tanks in accordance with Mooney Aircraft Corporation Service and Maintenance Manual using Brush Sealant, Protective Sealant, and Removable Access Panel Sealant specified therein. Applied sealants in accordance with AD 85-24-03 and SB M20-230, rev. A.

James Kenneth Davis James Kenneth Davis 411600154 A&P

Total Aircraft Time in Service 1291.1 - Hourmeter 1291.1

Cleaned aircraft. Serviced battery, brakes and tires. Lubricated landing gear and control systems. Replaced ELT battery (D&M ELT 8.1). Next ELT battery replacement is due July 2011.

Complied with the following Airworthiness Directive:

AD 76-07-12 Bendix Switches by functional test. Due again in 100 hrs. (1391.1 hrs)

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

James Kenneth Davis James Kenneth Davis 411600154 A&P, IA 2 May 2009

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

Total Aircraft Time in Service 1293.5 -- Hourmeter 1293.5



Cleaned aircraft. Serviced battery, brakes, and tires. Next ELT battery replacement (D&M ELT 8.1) is due July 2011

No Airworthiness Directives are due on this aircraft at this time

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

James Kenneth Davis James Kenneth Davis 411600154 A&P, IA 23 June 2010

11-1-14	Hollis	1298.1	A/C TT 1298.1 AD 85-24-03 Fuel TANK Sealant Application CWS + Mooney Aircraft Corporation Service Bulletin # SB M20-230 Revision A date Dec 16-1986. — — <i>Sam M. Hoag</i> A-P 446423169 —

YEAR: 2010 DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
12-20				Installed A New GILL G-24 BATTERY. <small>JOHANNY GERTMAN Certificate # 1875266</small>
1-6-11				Installed New tire and tube on left Main Gear. <small>JOHANNY GERTMAN Certificate # 1875266</small>   G02544643
2-27-11	H0665	1303.1	-	A/c TT 1303.1 Install New tires, 4 tubes on R/H Main Gear & Nose wheel. Repair Elevator trim. Seal & Service Compress with fld. - - - Dan M. Hays ATP 446423169

BLAKNEY AVIATION, INC. — WILEY POST AIRPORT — BETHANY, OK 73008

BA

N33RK

10-20-2011

Airframe

Mooney M20K

S/N 25-1160

Tach 1319.4

Total Time 1319.4

Engine TSMOH 276.4 in 5-2002

Prop TSOH 607.1 in 6-1991

Annual inspection completed and maintenance performed in accordance with FAR 43 Appendix D, referenced Mooney M20K maintenance manual and parts catalog, and TCM engine manual. C/W FAR 91.417 Para (A)(2)(V) Researched and verified AD notes thru issue 11-20. Completed a new up to date computerized AD Note list and put with the aircraft records. Checked aircraft for conformity with FAA Type Certificate. Checked all required placards and markings. (Continued)

BLAKNEY AVIATION, INC. — WILEY POST AIRPORT — BETHANY, OK 73008

Checked Equipment List, Weight & Balance record, A.F.M., Registration Certificate, and Airworthiness Certificate. Reviewed aircraft maintenance records. Dressed and touch-up painted propeller blades. Inspected prop hub and inspected prop spinner. Cleaned and repacked all wheel bearings and inspected brakes. Serviced brake fluid reservoir. Washed and lubed landing gear system. Aired up tires. Checked landing gear door fairings and checked gear down-lock tensions. Ops checked gear warning horn and found satisfactory. Performed landing gear retraction and emergency gear extension checks. Found gear operation and all indications normal and smooth at this time. Lubed and inspected flight control push pull tubes and rod ends. Checked travels, and stops. Operational checked trim tab travels and found satisfactory. Service battery and checked lights. Cleaned main fuel screens and sumped fuel tanks. No fuel leaks. (Continued)

YEA

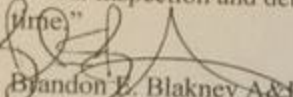
BA

BLAKNEY AVIATION, INC. — WILEY POST AIRPORT — BETHANY, OK 73008

Inspected and ops checked ELT per FAR 91.207 Para (d) and found satisfactory. (ELT battery due replacement 10-2013). Hydro test past due on oxygen bottle. De-activated system and placarded inop. Replaced ELT (DM ELT 8.1, S/N 13499E) with unit (S/N 23046E) overhauled by Merle Inc. (CRS# SF5R195N). Replaced fuel cap o-rings (MS29513-338). Replaced instrument air filters (2J4-7, B3-5-1). Replaced No. 1 prop de-ice boot (4E2200-3). Replaced left wing forward recognition light (70303-00). Replaced vacuum pump (241CC, S/N 11AH20) with new unit (S/N 13948-02). Cleaned system and sucked down with Airborne 343 test equipment. C/W AD 85-24-03 Fuel Tank Sealant. Inspected per SB M20-229A instructions and no defects noted. C/W AD 84-26-02 Paper Engine Air Filters. Replaced paper engine air filter (ED04011). C/W AD 76-07-12 Ignition Switches. Ops checked per AD instructions and no defects noted at this time. (Continued)

BLAKNEY AVIATION, INC. — WILEY POST AIRPORT — BETHANY, OK 73008

Replaced check valve (641068) for turbo system. Removed A/H (P/N 5000B-39, S/N T39332H) for overhaul by Kelly Instruments (CRS# OP2R065L)(WO#130189). See AD list for one time and recurring AD's. "I certify that this aircraft has been inspected in accordance with an annual inspection and determined to be in airworthy condition at this time."


Brandon E. Blakney A&P 3228297 IA
Blakney Aviation WO# 9519

YEI

DA

BLAKNEY AVIATION, INC. — WILEY POST AIRPORT — BETHANY, OK 73008

N33RK

10-20-2011

Airframe

Mooney M20K

S/N 25-1160

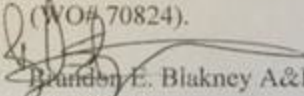
Tach 1319.4

Total Time 1319.4

Engine TSMOH 276.4 in 5-2002,

Prop TSOH 607.1 in 6-1991

Correction from annual entry. Vacuum pump replaced with unit (241CC,
S/N 13948-02) overhauled by Aero Accessories (CRS# YV4R688M)
(WO# 70824).


Brandon E. Blakney A&P 3228297

Blakney Aviation

WO# 9519

CALVIN TAPP ELECTRONICS INC. 14053789-1268 R.S. TX2R914K
5601 Philip J. Rhoads Ave. Hanger #3-C Bethany, Oklahoma 73008

ility. (See back pages)

- TXP #1 Mfg. By K1A4 M# F771A S# 61562

- TXP #2 Mfg. By N/A M# N/A S# N/A

has been tested, inspected and found to comply with FAR 91.413.

- Alt #1 Mfg. By varied M# 5234D-3 S# 445800

has been cert. by 322R714K on 7-12-2011 to an altitude of 27 thousand feet.

- Alt #2 Mfg. By N/A M# N/A S# N/A

has been cert. by N/A on N/A to an altitude of N/A thousand feet.

- Static/Encoding system has been tested, inspected and found to comply with FAR 91.411.

- Reference WO# 11229 by Bobby Van Swain Date 7-15-2011