

RADIO FIX AND HOLDING DATA RECORD

NAME: CELMI

STATE: CO

COUNTRY: US

LATITUDE/LONGITUDE: 393611.96N/1043111.89W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	FALCON	FQF	VORTAC	H	127.00	138.00	7.00	7.00		8500	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	QUAIL	1		KBKF	AURORA	CO (US)
STAR	QUAIL	1		KAPA	DENVER	CO (US)
STAR	QUAIL	1		KBJC	DENVER	CO (US)
STAR	QUAIL	1		KDEN	DENVER	CO (US)
STAR	QUAIL	1		KFTG	DENVER	CO (US)
STAR	QUAIL	1		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL	1		KGXY	GREELEY	CO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

REMOVED FALCON (FAC 1) REMARK.
ADDED KBKF, KAPA, KBJC, KFTG, KFNL, AND KGXY TO QUAIL STAR FIX USE.

DEVELOPED BY:

DATE: 03/01/2016

OFFICE: AJV-5431

NAME: DAVID DOWLING

APPROVED BY:

DATE:

Digitally signed by

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE: **ALLAN WILL**

Mar 06, 2016

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CONAL

STATE: CO

COUNTRY: US

LATITUDE/LONGITUDE: 390721.32N/1035800.83W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	HUGO	HGO	VOR/DME	H	311.63	318.63	24.41	24.41		8500	45000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	HGO	VOR/DME	131.63	311.63	R	1-1 1/2		9000	45000	10	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	390442.00N/1040427.00W	6624	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:

PRECIPITOUS TERRAIN EVALUATON COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V366	1	1			(US)
STAR	QUAIL	1	1	KBKF	AURORA	CO (US)
STAR	QUAIL	1	1	KAPA	DENVER	CO (US)
STAR	QUAIL	1	1	KBJC	DENVER	CO (US)
STAR	QUAIL	1	1	KDEN	DENVER	CO (US)
STAR	QUAIL	1	1	KFTG	DENVER	CO (US)
STAR	QUAIL	1	1	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL	1	1	KGXY	GREELEY	CO (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

UPDATED QUAIL STAR AIRPORT FIX USE TO INCLUDE: KBKF, KAPA, KBJC, KDTG, KFNL, AND KGXY.
 REMOVED FAC 1 FIX COORDINATES REMARK.
 CHANGED FAC 1 MAG BRG FROM 306.63 TO 311.63.
 CHANGED PAT 1 CRS INBOUND FROM 306.63 TO 311.63.

DEVELOPED BY:

DATE: 12/22/2015

OFFICE: AJV-5430

NAME: DAVID DOWLING

APPROVED BY:

DATE:

Digitally signed by

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE: **ALLAN WILL**

Mar 06, 2016

DISTRIBUTION:

NFDC
 FPO: WST
 ARTCC: ZDV
 ATC FACILITY: DEN
 OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HUGO VOR/DME

STATE: CO

COUNTRY: US

LATITUDE/LONGITUDE: 384903.00N/1033717.00W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	HUGO	HGO	VOR/DME	H						45000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SE	HGO	VOR/DME	131.63	311.63	L	1-1 1/2	10500 45000	9 29
2	SE		WP	127.00	307.00	L	10	13000 45000	15 30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	AAO	390030.00N/1035312.00W	6113	4E
1	230	AAO	385042.00N/1034633.00W	5722	4E
2	230	AAO	385130.00N/1035027.00W	5824	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:

UNPLANNED HOLDING APPROVED AT OR ABOVE 10000
PRECIPITOUS TERRAIN EVALUATION COMPLETED
PAT 2 MIN TEMPLATE 15 PER ATC REQUEST FOR 10 DME HOLDING LEG LENGTH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DENVER			KBKF	AURORA	CO (US)
DP	PIKES			KBKF	AURORA	CO (US)
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	PIKES			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	PIKES			KBJC	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	PIKES			KDEN	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)
DP	PIKES			KFTG	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PIKES			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	PIKES			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
EN ROUTE	J171					(US)
EN ROUTE	J197					(US)
EN ROUTE	J20					(US)
EN ROUTE	J24					(US)
EN ROUTE	J52					(US)
EN ROUTE	V108					(US)
EN ROUTE	V169					(US)
EN ROUTE	V263					(US)
EN ROUTE	V366					(US)
IAP	ILS OR LOC RWY 17L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS OR LOC RWY 35R			KCOS	COLORADO SPRINGS	CO (US)
IAP	ILS RWY 17L (SA CAT I)			KCOS	COLORADO SPRINGS	CO (US)
IAP	NDB RWY 35L			KCOS	COLORADO SPRINGS	CO (US)
STAR	DANDD			KBKF	AURORA	CO (US)
STAR	QUAIL		1	KBKF	AURORA	CO (US)
STAR	OZZZY (RNAV)		2	KCOS	COLORADO SPRINGS	CO (US)
STAR	DANDD			KAPA	DENVER	CO (US)
STAR	QUAIL		1	KAPA	DENVER	CO (US)
STAR	DANDD			KBJC	DENVER	CO (US)
STAR	QUAIL		1	KBJC	DENVER	CO (US)
STAR	DANDD			KDEN	DENVER	CO (US)
STAR	QUAIL		1	KDEN	DENVER	CO (US)
STAR	DANDD			KFTG	DENVER	CO (US)
STAR	QUAIL		1	KFTG	DENVER	CO (US)
STAR	QUAIL		1	KFNL	FORT COLLINS/LOVELAND	CO (US)

STAR	QUAIL	1	KGXY	GREELEY	CO (US)
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REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

PAT 1 CRS INBOUND CHANGED FROM 306.63 TO 311.63 DUE TO HGO MAG VAR CHANGE.
PAT 1 ADDED TO ALL QUAIL STAR AIRPORTS IN FIX USE.

DEVELOPED BY: **DATE:** 12/23/2015 **OFFICE:** AJV-5431 **NAME:** DAVID DOWLING

APPROVED BY: _____ DATE: _____ OFFICE: AJV-5430 NAME: LONNIE EVERHART

Digitally signed by

SIGNATURE: *ALLAN WILL*

Mar 06, 2016

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HYMNS

STATE: CO

COUNTRY: US

LATITUDE/LONGITUDE: 383256.90N/1031250.57W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	HUGO	HGO	VOR/DME	H	122.92	129.92	25.00	25.00		10500	45000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	HGO	VOR/DME	122.92	302.92	L	1-1 1/2		10500	45000	10	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	383751.00N/1031930.00W	5030	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:

HUGO (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	QUAIL	1	1	KBKF	AURORA	CO (US)
STAR	OZZZY (RNAV)			KCOS	COLORADO SPRINGS	CO (US)
STAR	QUAIL	1	1	KAPA	DENVER	CO (US)
STAR	QUAIL	1	1	KBJC	DENVER	CO (US)
STAR	QUAIL	1	1	KDEN	DENVER	CO (US)
STAR	QUAIL	1	1	KFTG	DENVER	CO (US)
STAR	QUAIL	1	1	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL	1	1	KGXY	GREELEY	CO (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

CHANGED FAC 1 MAG BRG FROM 117.92 TO 122.92 DUE TO HGO MAG VAR UPDATE.
CHANGED HOLDING PAT 1 COURSE INBOUND FROM 297.92 TO 302.92.
ADDED SIX AIRPORTS IN FIX USE FOR THE QUAIL STAR.

DEVELOPED BY:

DATE: 01/22/2016

OFFICE: AJV-5431

NAME: DAVID DOWLING

APPROVED BY:

DATE:

Digitally signed by

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE: **ALLAN WILL**

Mar 06, 2016

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JEFEL

STATE: CO

COUNTRY: US

LATITUDE/LONGITUDE: 392150.39N/1041436.13W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	FALCON	FQF	VORTAC	H	127.00	138.00	26.26	26.26		8500	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V366	1				(US)
EN ROUTE	V611	1				(US)
STAR	QUAIL	1		KBKF	AURORA	CO (US)
STAR	QUAIL	1		KAPA	DENVER	CO (US)
STAR	QUAIL	1		KBJC	DENVER	CO (US)
STAR	QUAIL	1		KDEN	DENVER	CO (US)
STAR	QUAIL	1		KFTG	DENVER	CO (US)
STAR	QUAIL	1		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL	1		KGXY	GREELEY	CO (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

REMOVED FALCON (FAC 1) REMARK.
ADDED KBKF, KAPA, KBJC, KFTG, KFNL, AND KGXY TO QUAIL STAR FIX USE.
REMOVED KAPA RNAV (GPS) RWY 28 FROM FIX USE.

DEVELOPED BY:

DATE: 03/01/2016

OFFICE: AJV-5431

NAME: DAVID DOWLING

APPROVED BY:

DATE:

Digitally signed by

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE: **ALLAN WILL**

Mar 06, 2016

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: QUAIL

STATE: CO

COUNTRY: US

LATITUDE/LONGITUDE: 391538.81N/1040729.62W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	FALCON	FQF	VORTAC	H	127.00	138.00	34.55	34.55		8500	45000
2	HUGO	HGO	VOR/DME	H	311.62	318.62	35.50	35.50		8500	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SE	FQF	VORTAC	127.00	307.00	R	1-1 1/2	9000 45000	11 31

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	390518.00N/1040615.00W	6703	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:

FALCON (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J20	1, 2				(US)
EN ROUTE	J52	1, 2				(US)
EN ROUTE	V366	1, 2				(US)
STAR	QUAIL	1, 2	1	KBKF	AURORA	CO (US)
STAR	QUAIL	1, 2	1	KAPA	DENVER	CO (US)
STAR	QUAIL	1, 2	1	KBJC	DENVER	CO (US)
STAR	BOSS (RNAV)			KDEN	DENVER	CO (US)
STAR	QUAIL	1, 2	1	KDEN	DENVER	CO (US)
STAR	ZPLYN (RNAV)			KDEN	DENVER	CO (US)
STAR	QUAIL	1, 2	1	KFTG	DENVER	CO (US)
STAR	QUAIL	1, 2	1	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL	1, 2	1	KGXY	GREELEY	CO (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

UPDATED QUAIL STAR FIX USE TO INCLUDE: KBKF, KAPA, KBJC, KFTG, KFNL, AND KGXY.
CHANGED HGO MAG BRG FROM 306.62 TO 311.63.

DEVELOPED BY:

DATE: 12/22/2015

OFFICE: AJV-5431

NAME: DAVID DOWLING

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: LONNIE EVERHART

Digitally signed by

SIGNATURE: ALLAN WILL

Mar 06, 2016

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: DEN
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TODDE

STATE: CO

COUNTRY: US

LATITUDE/LONGITUDE: 381507.57N/1033659.43W

TYPE: INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	HUGO	HGO	VOR/DME	H	172.61	179.61	33.89	33.89		7000	45000
2	PUEBLO	PUB	VORTAC	H	085.51	093.51	38.49	38.49		7000	45000

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

REMARKS:

HUGO (FAC 1) AND PUEBLO (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J171	1, 2				(US)
EN ROUTE	V10	1, 2				(US)
EN ROUTE	V169	1, 2				(US)
EN ROUTE	V244	1, 2				(US)
IAP	RNAV (GPS) RWY 26			KLHX	LA JUNTA	CO (US)
IAP	RNAV (GPS) RWY 8			KLHX	LA JUNTA	CO (US)
STAR	QUAIL	1, 2		KBKF	AURORA	CO (US)
STAR	QUAIL	1, 2		KAPA	DENVER	CO (US)
STAR	QUAIL	1, 2		KBJC	DENVER	CO (US)
STAR	QUAIL	1, 2		KDEN	DENVER	CO (US)
STAR	QUAIL	1, 2		KFTG	DENVER	CO (US)
STAR	QUAIL	1, 2		KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL	1, 2		KGXY	GREELEY	CO (US)

REQUIRED CHARTING: STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

REMOVED QUAIL STAR HOLDING AND OBSTACLE DATA.
 REMOVED HOLDING RESTRICTION.
 REMOVED PRECIPITOUS TERRAIN REMARK.
 CHANGED FAC 1 MAG BRG FROM 167.71 TO 172.61.
 CHANGED FAC 2 MAG BRG FROM 080.51 TO 085.51.
 CHANGED FAC 2 NM DIST FROM 34.89 TO 38.49.
 ADDED AIRPORTS TO QUAIL STAR FIX USE: KBKF, KAPA, KBJC, KFTG, KFNL, AND KGXY.

DEVELOPED BY:

DATE: 12/23/2015

OFFICE: AJV-5431

NAME: DAVID DOWLING

APPROVED BY:

DATE:

Digitally signed by

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE: **ALLAN WILL**

Mar 06, 2016

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NFDC
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