Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 02/22/2008	Task #: 2007010517118701008	Request #: 20070105171187
Procedure: SID EPKEE (RNAV) ONE DENVER CO KDEN		Airport ID: KDEN	Airport: DENVER INTERNATIONAL		Reimbursable #:
City: DENVER	ST: CO	GPS #:		Estimated Chart Date: 01/10/2013	FICO #:
Fac ID:	Fac. Type: Proc O	Specialist: CHARLES ERICKSON			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	02/29/2012	09/14/2012	DEZ SILAGYI	
QA:	09/14/2012	09/17/2012	SCOTT BEARD	
Liaison:	09/17/2012		Spurlin	DME/DME - MAGVAR - WAIVER

MAG VAR DME / DME p1

ESV REQUEST INCLUDED

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

pg 2 of 4

DENVER, CO DENVER INTL (KDEN) EPKEE ONE (RNAV) (SID) ENROUTE-YES FC: 10.1.12 PUB: 1.10.13

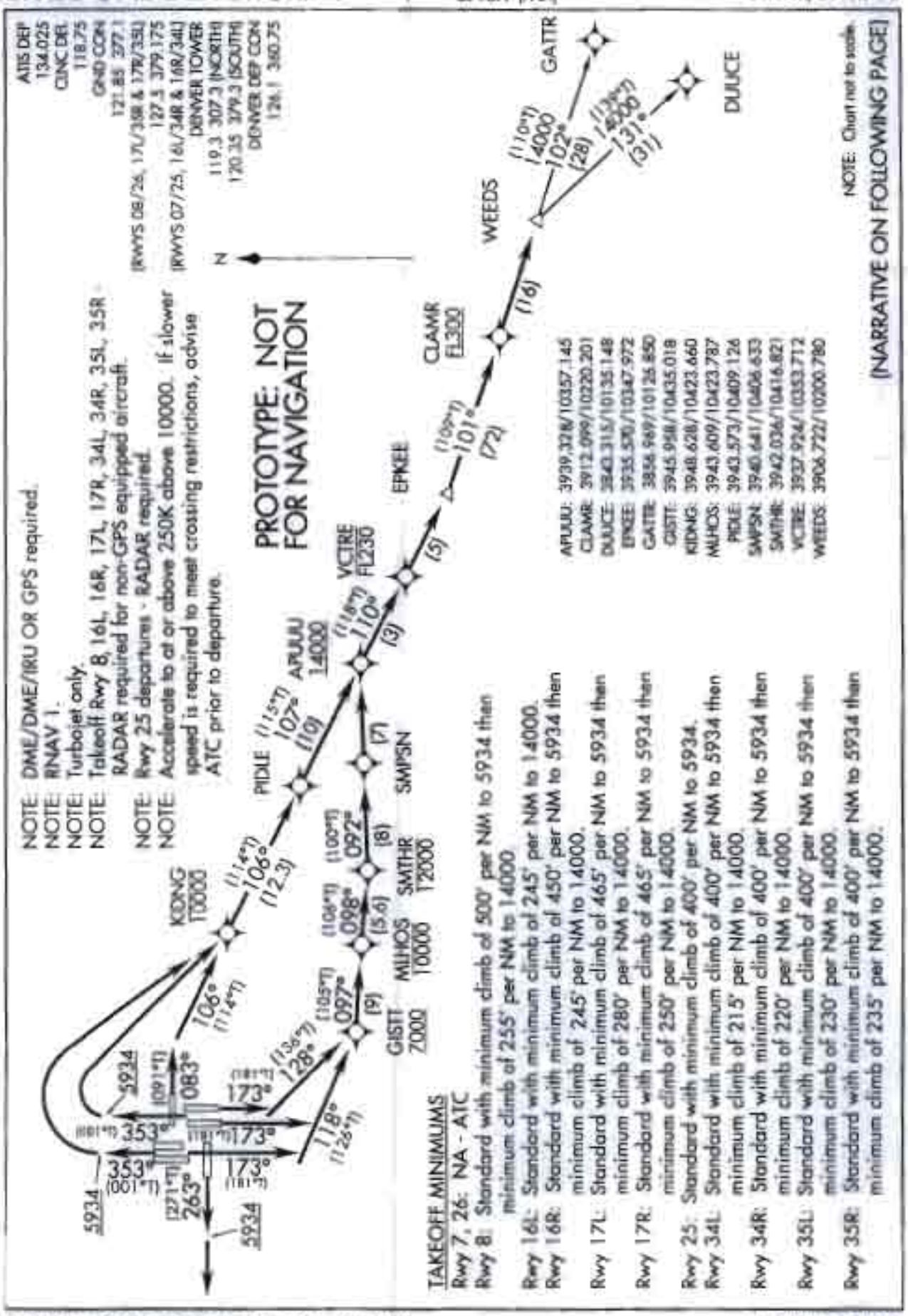
ATTACHED FORMS: ESV REPORTS; 8260-15B; 8260-15C; 8260-2(S): APUUU, ORIG; CLAMR, ORIG; DUUCE, ORIG; GATTR, ORIG; GISTT, ORIG; KIDNG, ORG; MLHOS, ORIG; PIDLE, ORIG; SMPSN, ORIG; SMTHR, ORIG; VCTRE, ORIG; EPKEE-INT, REV 1; WEEDS-INT, REV 1.

CONTACT: ADOLFO URRUTIA/LONNIE EVERHART-AVN-130 LEADS, 405.954.2079/ 405.954.4576.

EPKEE ONE DEPARTURE (RNAV)

SL-9077 (FAA)

DENVER INTL (DEN)
DENVER, COLORADO



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 083° to intercept course 106° to cross KIDNG at or below 10000, then on track 106° to PIDLE, then on track 107° to cross APUUU at or above 14000, then on track 110° to cross VCTRE at or below FL230, then on track 110° to EPKEE, thence. . . .

TAKEOFF RUNWAY 16L, 16R, 17R: Climb heading 173° to intercept course 118° to cross GISTT at or above 7000, then on track 097° to cross MLHOS at or below 10000, then on track 098° to cross SMTHR at or below 12000, then on track 092° to SMPSN, then on track 092° to cross APUUU at or above 14000, then on track 110° to cross VCTRE at or below FL230, then on track 110° to EPKEE, thence. . . .

TAKEOFF RUNWAY 17L: Climb heading 173° to intercept course 127° to cross GISTT at or above 7000, then on track 097° to cross MLHOS at or below 10000, then on track 098° to cross SMTHR at or below 12000, then on track 092° to SMPSN, then on track 092° to cross APUUU at or above 14000, then on track 110° to cross VCTRE at or below FL230, then on track 110° to EPKEE, thence. . . .

TAKEOFF RUNWAY 25: Climb heading 263° to 5934, then continue climb heading 263° or as assigned by ATC for RADAR vectors to EPKEE, thence. . . .

TAKEOFF RUNWAY 34L, 34R, 35L, 35R: Climb heading 353° to 5934, then climbing right turn direct to cross KIDNG at or below 10000, then on track 106° to PIDLE, then on track 107° to cross APUUU at or above 14000, then on track 110° to cross VCTRE at or below FL230, then on track 110° to EPKEE, thence. . . .

. . . . on depicted route to WEEDS, then via (transition). Maintain FL230 or filed lower altitude, expect higher filed altitude 10 minutes after departure.

DUUCE TRANSITION (EPKEE1.DUUCE)
GATTR TRANSITION (EPKEE1.GATTR)

TAKEOFF OBSTACLE NOTES
Rwy 16L: Multiple signs beginning 126' from DER, 490' left of centerline, up to 7' AGL/5359' MSL.
Communication twr 4749' from DER, 1358' left of centerline, 107' AGL/5478' MSL.
Rwy 25: Sign 48' from DER, 450' right of centerline, 6' AGL 5354' MSL.

PROTOTYPE: NOT FOR NAVIGATION

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : GARDEN CITY	City : GARDEN CITY	Ident : GCK	State : KS
Type/Class : TACR	Frequency : M1167	Reference No.: 12086081	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704135-010	299	314	90	140	310

Requirement: KDEN: EPKEE1 RNAV

Signature: Dunn Martha	Routing Symbol: AJR-BAL	Date: 08/15/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704135-010	299	314	90	140	310	APPROVE

Requirement/Remarks: KDEN: EPKEE1 RNAVAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: BOWERS MIKE	Routing Symbol:	Date: 08/17/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704135-010	299	314	90	140	310	APPROVE

Requirement/Remarks: KDEN: EPKEE1 RNAVAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 08/17/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704135-010	299	314				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish

Facility Data

Chart Name : DENVER	City : DENVER	Ident : DVV	State : CO
Type/Class : TACR	Frequency : M1181	Reference No : 12086083	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 910286-038	94	109	70	140	230

Requirement: KDEN: EPKEE1 RNAV SID

Signature: Dunn Martha	Routing Symbol: AJR-BAL	Date: 08/15/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 910286-038	94	109	70	140	230	APPROVE

Requirement/Remarks: KDEN: EPKEE1 RNAV SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Nguyen Khoat	Routing Symbol:	Date: 08/16/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 910286-038	94	109	70	140	230	APPROVE

Requirement/Remarks: KDEN: EPKEE1 RNAV SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 08/17/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 910286-038	94	109				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office:	Airspace Docket Number:	Request Type: Establish

Facility Data

Chart Name: GILL	City: GILL	Ident: GLL	State: CO
Type/Class: DMER	Frequency: M1176	Reference No.: 12039846	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 921795-022	154	162	50	70	230

Requirement: KDEN EXTAN1 & EPKEE1 RNAV SIDS: MITIGATE CRITICAL DME

Signature: Dunn Martha	Routing Symbol: AJR-BAL	Date: 03/08/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 921795-022	154	162	50	70	230	APPROVE

Requirement/Remarks: KDEN EXTAN1 & EPKEE1 RNAV SIDS: MITIGATE CRITICAL DMEAPPROVED. PEND FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: pham Vu	Routing Symbol:	Date: 03/12/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 921795-022	154	162	50	70	230	APPROVE

Requirement/Remarks: KDEN EXTAN1 & EPKEE1 RNAV SIDS: MITIGATE CRITICAL DMEAPPROVED. PEND FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 03/12/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 921795-022	154	162				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : GILL	City : GILL	Ident : GLL	State : CO
Type/Class : DMER	Frequency : M1176	Reference No.: 12039847	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 921795-023	137	154	52	80	230

Requirement: KDEN: EXTAN1 & EPKEE1 RNAV SIDS: MITIGATE CRITICAL DME

Signature: Dunn Martha	Routing Symbol:	Date: 03/08/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 921795-023	137	154	52	80	230	APPROVE

Requirement/Remarks: KDEN: EXTAN1 & EPKEE1 RNAV SIDS: MITIGATE CRITICAL DMEAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: pham Vu	Routing Symbol:	Date: 03/12/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 921795-023	137	154	52	80	230	APPROVE

Requirement/Remarks: KDEN: EXTAN1 & EPKEE1 RNAV SIDS: MITIGATE CRITICAL DMEAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 03/12/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 921795-023	137	154				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish

Facility Data

Chart Name : AKRON	City : AKRON	Ident : AKO	State : CO
Type/Class : DME	Frequency : M1178	Reference No.: 12039849	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704171-011	142	217	65	140	300

Requirement: KDEN: EXTAN1 & EPKEE1 RNAV SID: MITIGATE CRITICAL DME

Signature: Dunn Martha	Routing Symbol:	Date: 03/08/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704171-011	142	217	65	140	300	APPROVE

Requirement/Remarks: KDEN: EXTAN1 & EPKEE1 RNAV SID: MITIGATE CRITICAL DMEAPPROVED PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: pham Vu	Routing Symbol:	Date. 03/12/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704171-011	142	217	65	140	300	APPROVE

Requirement/Remarks: KDEN: EXTAN1 & EPKEE1 RNAV SID: MITIGATE CRITICAL DMEAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 03/12/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704171-011	142	217				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish

Facility Data

Chart Name : HILL CITY	City : HILL CITY	Ident : HLC	State : KS
Type/Class : TACR	Frequency : M1171	Reference No : 12039886	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704146-004	231	266	65	150	310

Requirement: KDEN: EPKEE1 RNAV SID: MITIGATE CRITICAL DME

Signature: Dunn Martha	Routing Symbol:	Date: 03/09/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704146-004	231	266	65	150	310	APPROVE

Requirement/Remarks: KDEN: EPKEE1 RNAV SID: MITIGATE CRITICAL DMEAPPROVED: PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: BOWERS MIKE	Routing Symbol:	Date: 03/13/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704146-004	231	266	65	150	310	APPROVE

Requirement/Remarks: KDEN: EPKEE1 RNAV SID: MITIGATE CRITICAL DMEAPPROVED: PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 03/13/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704146-004	231	266				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish

Facility Data

Chart Name : HUGO	City : HUGO	Ident : HGO	State : CO
Type/Class : TACR	Frequency : M1019	Reference No.: 12039887	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 860203-008	28	58	82	150	310

Requirement: KDEN: EXTAN1 AND EPKEE1 RNAV SIDS: MITIGATE CRITICAL DME.

Signature: Dunn Martha	Routing Symbol:	Date: 03/09/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 860203-008	28	58	82	150	310	APPROVE

Requirement/Remarks: KDEN: EXTAN1 AND EPKEE1 RNAV SIDS: MITIGATE CRITICAL DME.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: pham Vu	Routing Symbol:	Date: 03/12/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 860203-008	28	58	82	150	310	APPROVE

Requirement/Remarks: KDEN: EXTAN1 AND EPKEE1 RNAV SIDS: MITIGATE CRITICAL DME.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 03/12/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 860203-008	28	58				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office .	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : HUGO	City : HUGO	Ident : HGO	State : CO
Type/Class : TACR	Frequency : M1019	Reference No.: 12039888	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 860203-009	326	346	64	140	310

Requirement: KDEN: EXTAN1 AND EPKEE1 RNAV SIDS: MITIGATE CRITICAL DME

Signature: Dunn Martha	Routing Symbol:	Date: 03/09/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 860203-009	326	346	64	140	310	APPROVE

Requirement/Remarks: KDEN: EXTAN1 AND EPKEE1 RNAV SIDS: MITIGATE CRITICAL DMEAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: pham Vu	Routing Symbol:	Date: 03/12/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 860203-009	326	346	64	140	310	APPROVE

Requirement/Remarks: KDEN: EXTAN1 AND EPKEE1 RNAV SIDS: MITIGATE CRITICAL DMEAPPROVED PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 03/12/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 860203-009	326	346				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office	Airspace Docket Number	Request Type : Establish

Facility Data

Chart Name : HAYES CENTER	City : HAYES CENTER	Ident : HCT	State : NE
Type/Class : TACR	Frequency : M1211	Reference No. : 12039889	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698236-006	196	222	120	150	310

Requirement: KDEN: EXTAN1 AND EPKEE1 RNAV SIDS: MITIGATE CRITICAL DME'S

Signature: Dunn Martha	Routing Symbol: AJR-BAL	Date: 03/09/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698236-006	196	222	120	150	310	APPROVE

Requirement/Remarks: KDEN: EXTAN1 AND EPKEE1 RNAV SIDS: MITIGATE CRITICAL DME'SAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: BOWERS MIKE	Routing Symbol:	Date: 03/13/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698236-006	196	222	120	150	310	APPROVE

Requirement/Remarks: KDEN: EXTAN1 AND EPKEE1 RNAV SIDS: MITIGATE CRITICAL DME'SAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

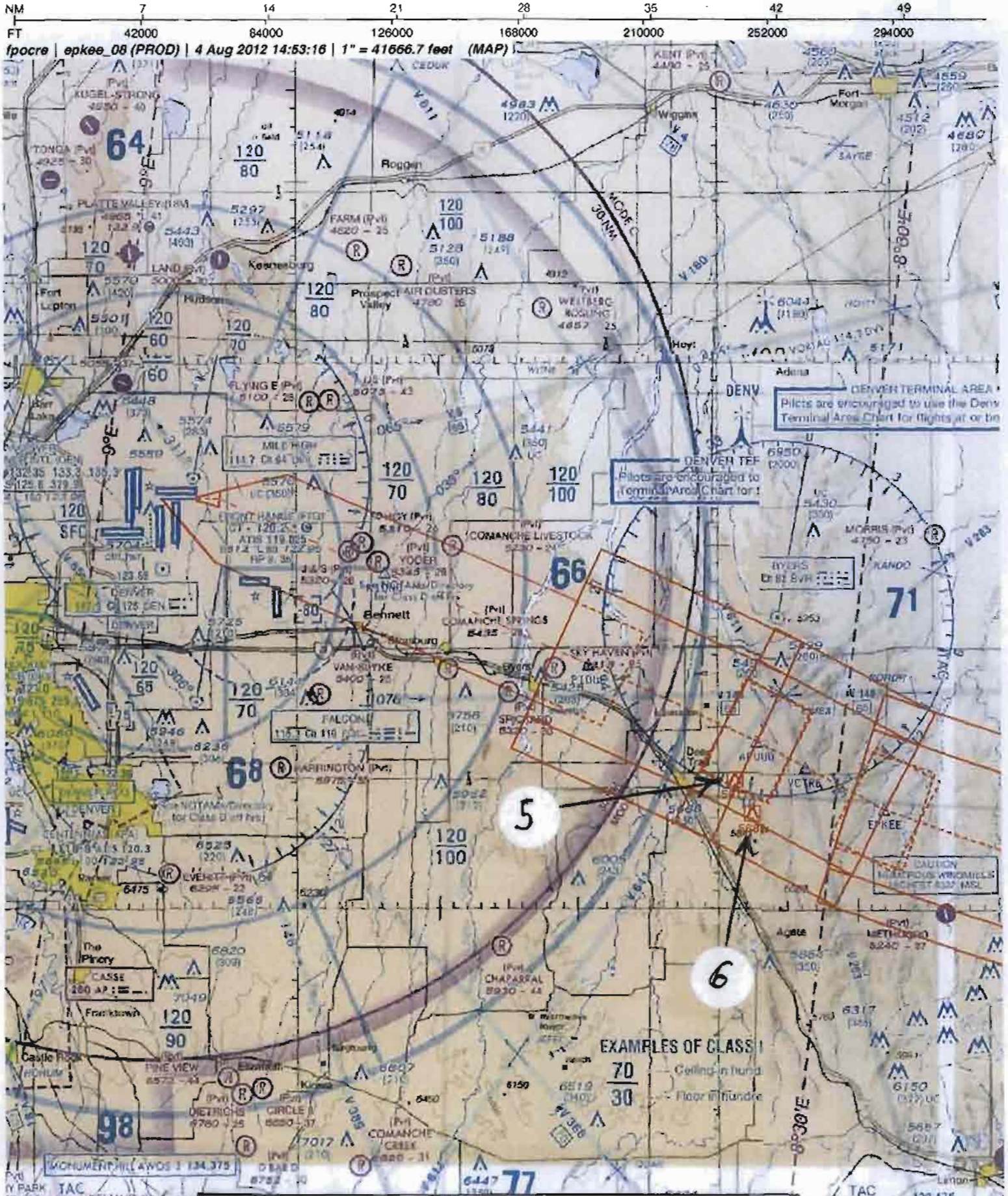
Signature: Hughes Dennis	Routing Symbol:	Date: 03/13/2012

Expanded Service Volume Data: (FIFO)

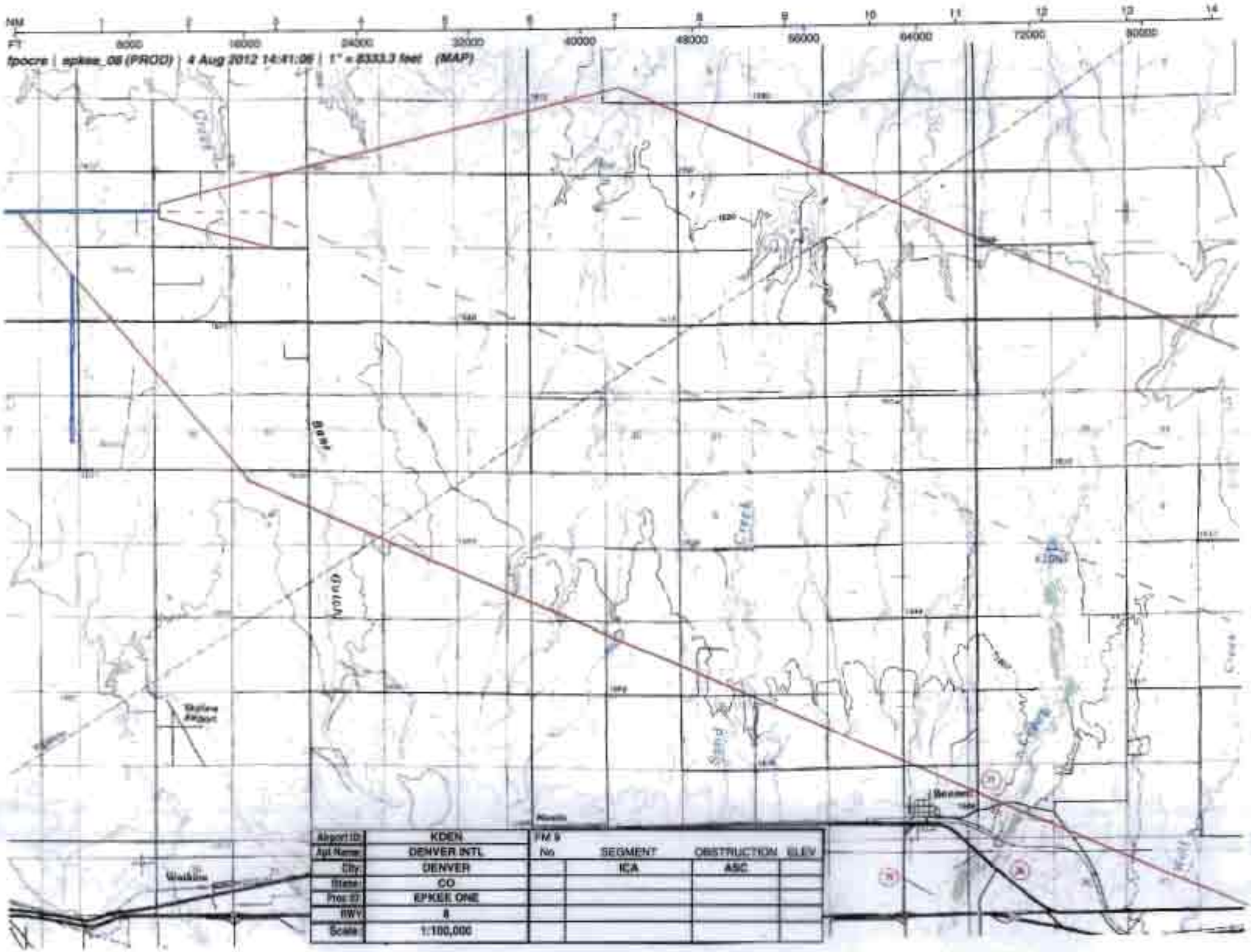
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698236-006	196	222				

Requirement/Remarks:

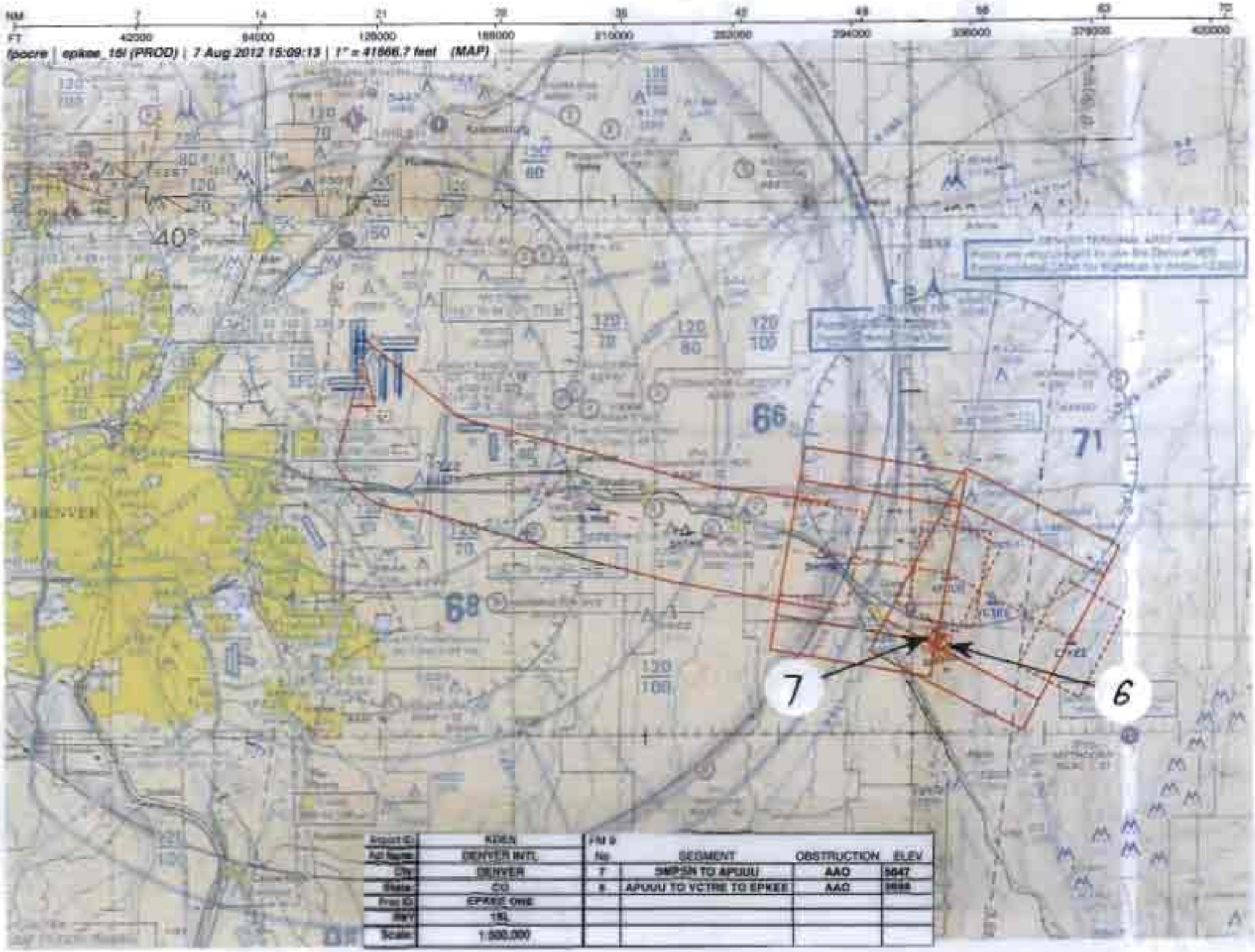
Signature:	Routing Symbol:	Date:



Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	5	PIDLE TO APUUU	AAO	5617
State:	CO	6	APUUU TO VCTRE TO EPKEE	AAO	5686
Proc ID:	EPKEE ONE				
Rwy	8				
Scale:	1:500,000				



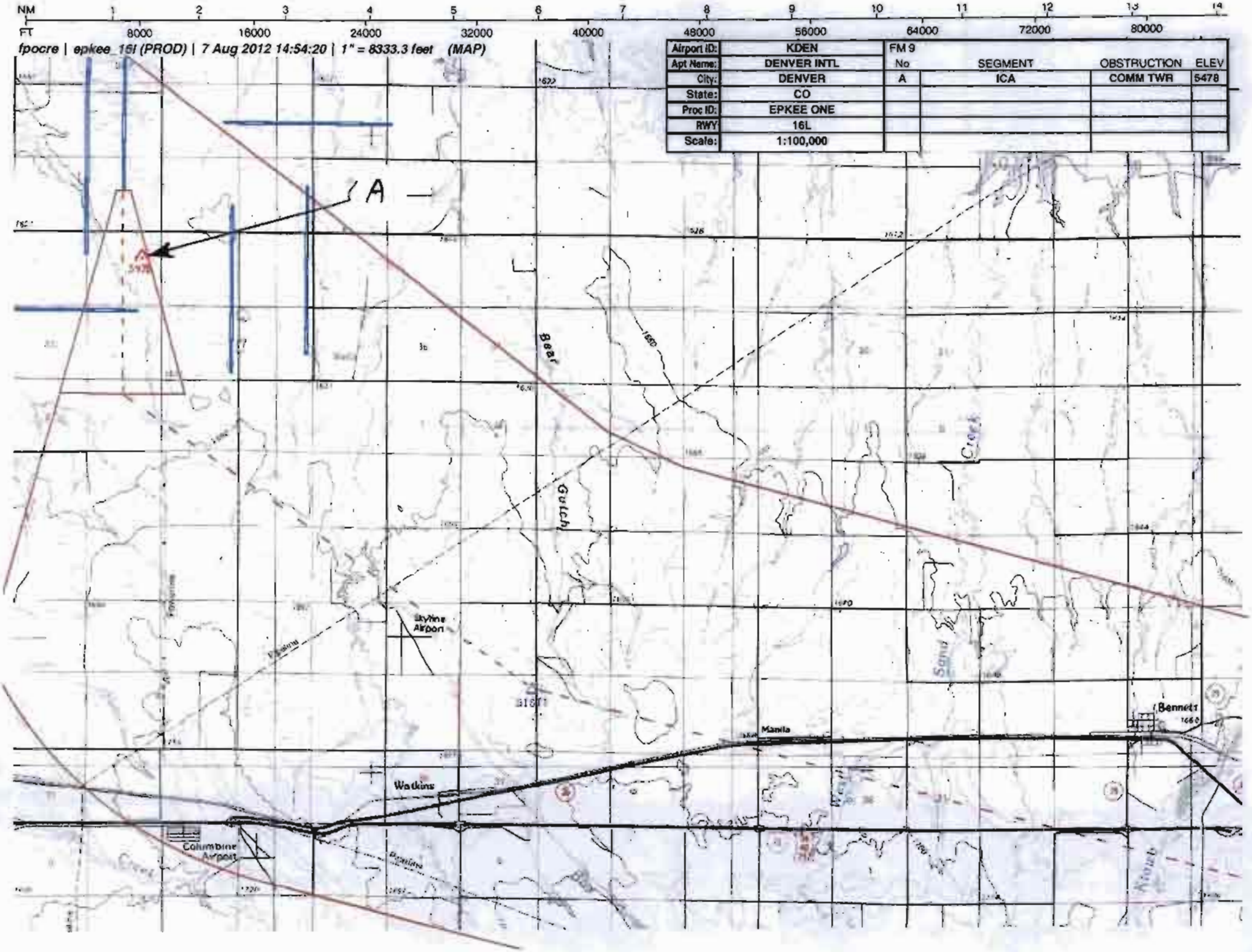
		FM 9			
Airport ID	KDEN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name	DENVER INTL		ICA	ASC	
City	DENVER				
State	CO				
Proc ID	EPKEE ONE				
RWY	8				
Scale	1:100,000				



Airport ID:	KDEN
Apt Name:	DENVER INTL
City:	DENVER
State:	CO
Proc ID:	EPKEE ONE
Rwy:	16L
Scale:	1:500,000

FIG 9

No	SEGMENT	OBSTRUCTION	ELEV
7	SMPSN TO APUUU	AAO	5647
6	APUUU TO VCTRE TO EPKEE	AAO	[illegible]


NM 1 2 3 4 5 6 7 8 9 10 11 12 13 14
FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000
fpocre | epkee_16l (PROD) | 7 Aug 2012 14:54:20 | 1" = 8333.3 feet (MAP)
Airport ID: KDEN
Apt Name: DENVER INTL
City: DENVER
State: CO
Proc ID: EPKEE ONE
RWY: 16L
Scale: 1:100,000
FM 9
No
A
SEGMENT
ICA
OBSTRUCTION
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ELEV
5478
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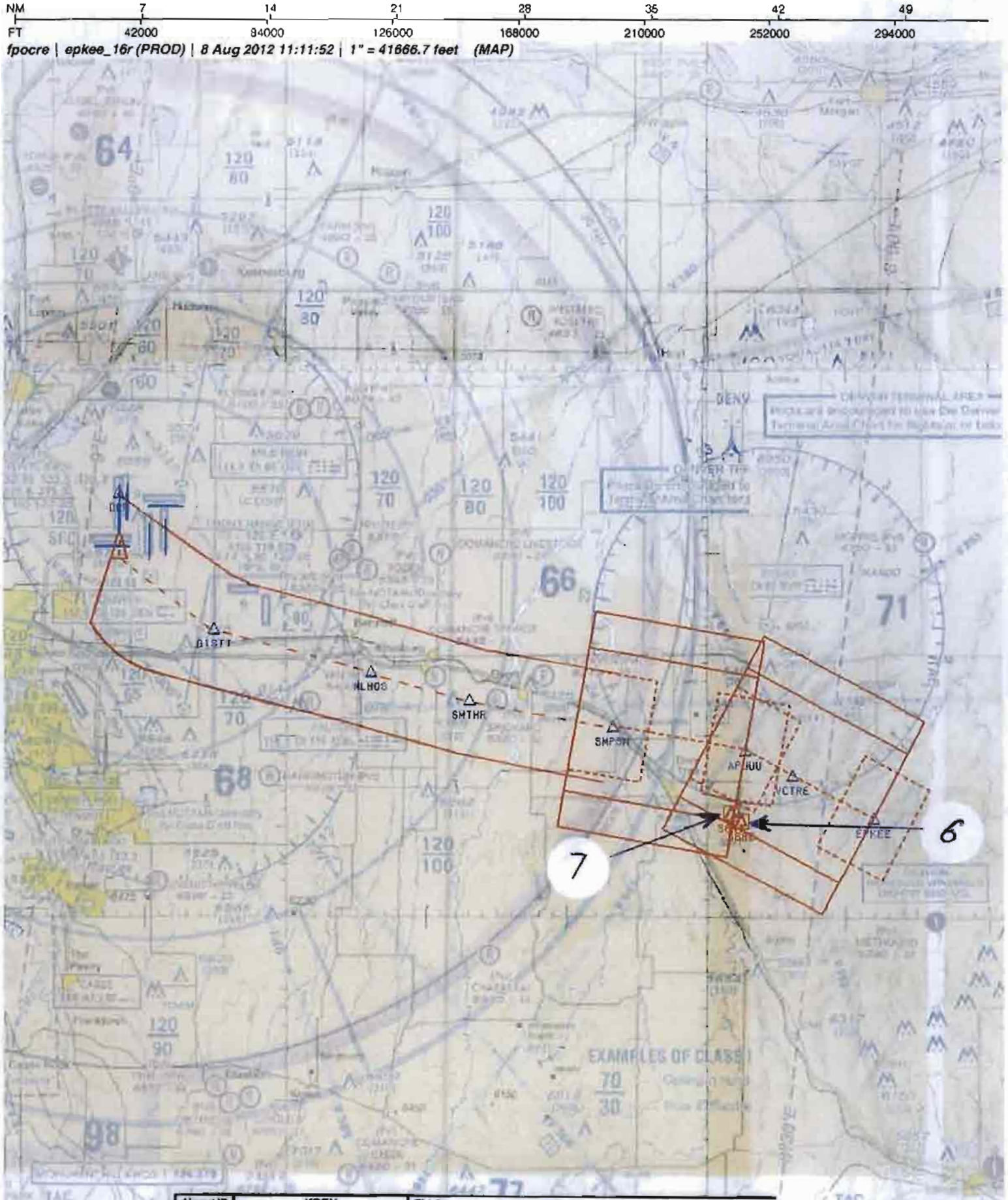
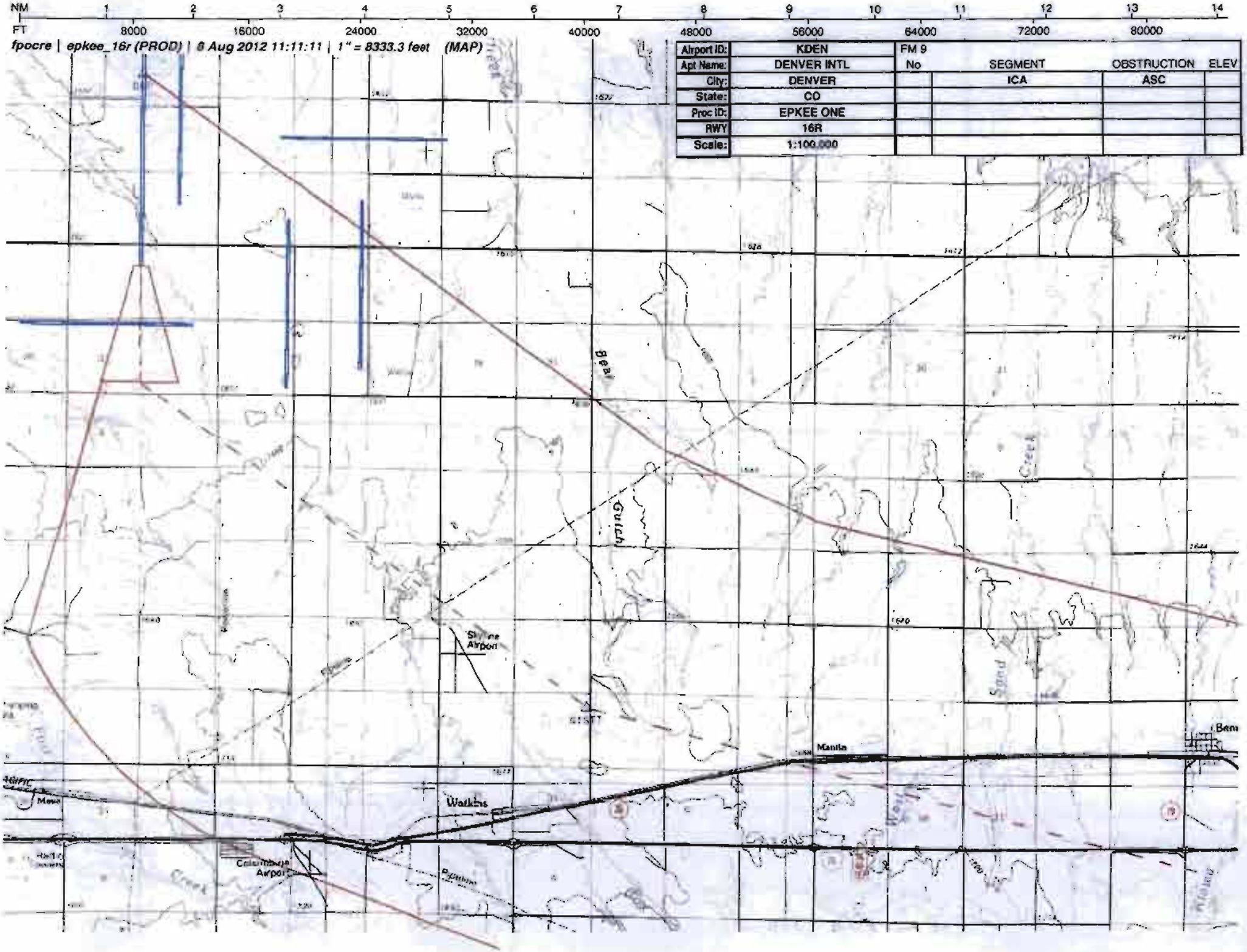
Skyline Airport
Manila
Bennett
Watkins
Columbine Airport



Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	7	SMPSN TO APUUU	AAO	5647
State:	CO	6	APUUU TO VCTRE TO EPKEE	AAO	5686
Proc ID:	EPKEE ONE				
RWY	16L				
Scale:	1:500,000				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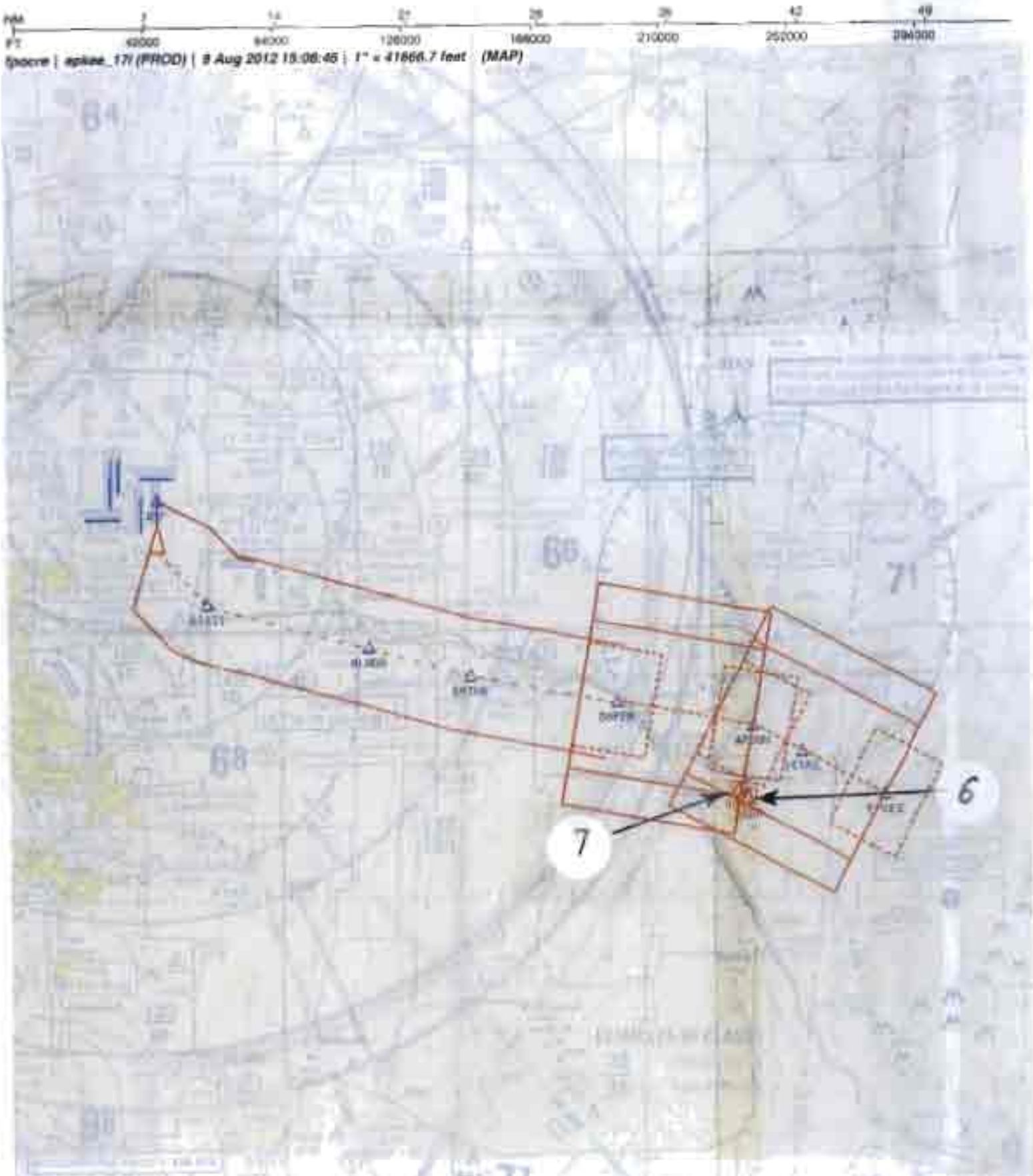
FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000
fpocre | epkee_16r (PROD) | 8 Aug 2012 11:11:11 | 1" = 8333.3 feet (MAP)
Airport ID: KDEN
Apt Name: DENVER INTL
City: DENVER
State: CO
Proc ID: EPKEE ONE
RWY 16R
Scale: 1:100,000
FM 9
No SEGMENT OBSTRUCTION ELEV
ICA ASC
Beal
Gulch
Skyline Airport
Manila
Watkins
Colorado Airport
Sand Creek



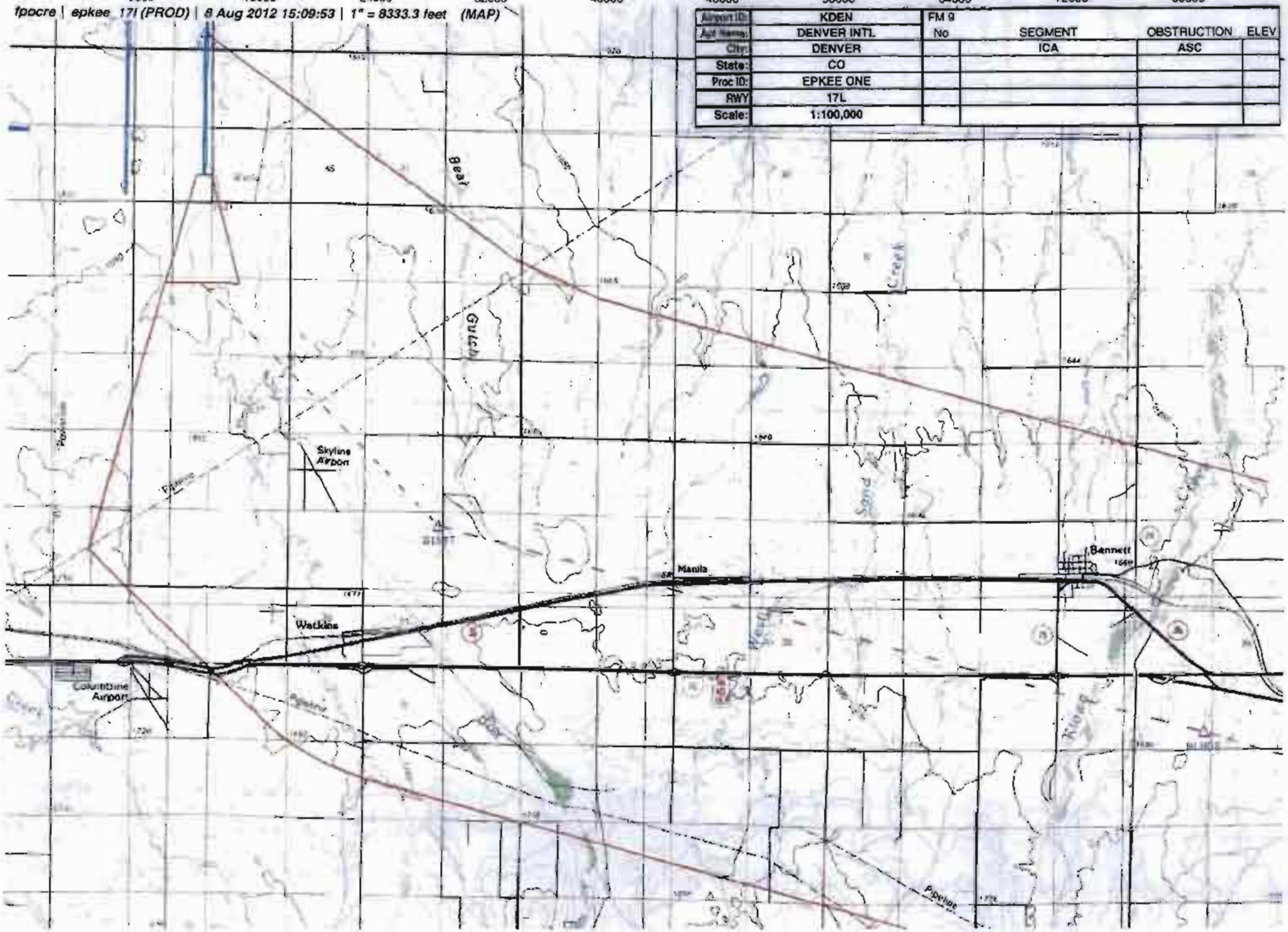
Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	7	BMPSN TO APUUU	AAO	[illegible]
State:	CO	8	APUUU TO VCTRE TO EPKEE	AAO	[illegible]
Proc ID:	EPKEE ONE				
Rwy:	17L				
Scale:	1:500,000				

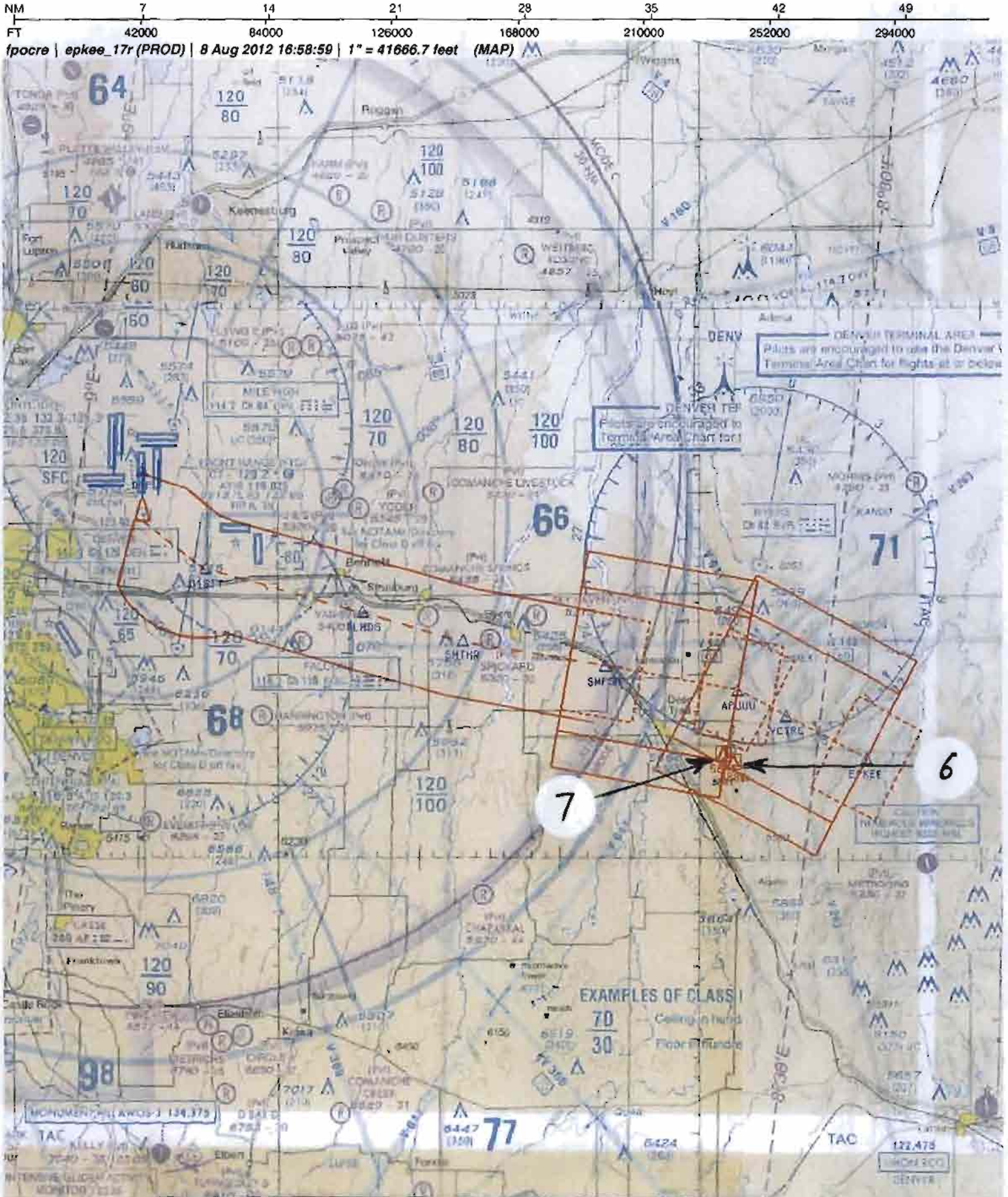
NM 1 2 3 4 5 6 7 8 9 10 11 12 13 14

FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000

fpocre | epkee 17l (PROD) | 8 Aug 2012 15:09:53 | 1" = 8333.3 feet (MAP)

		FM 9			
Airport ID:	KDEN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	DENVER INTL		ICA	ASC	
City:	DENVER				
State:	CO				
Proc ID:	EPKEE ONE				
RWY	17L				
Scale:	1:100,000				





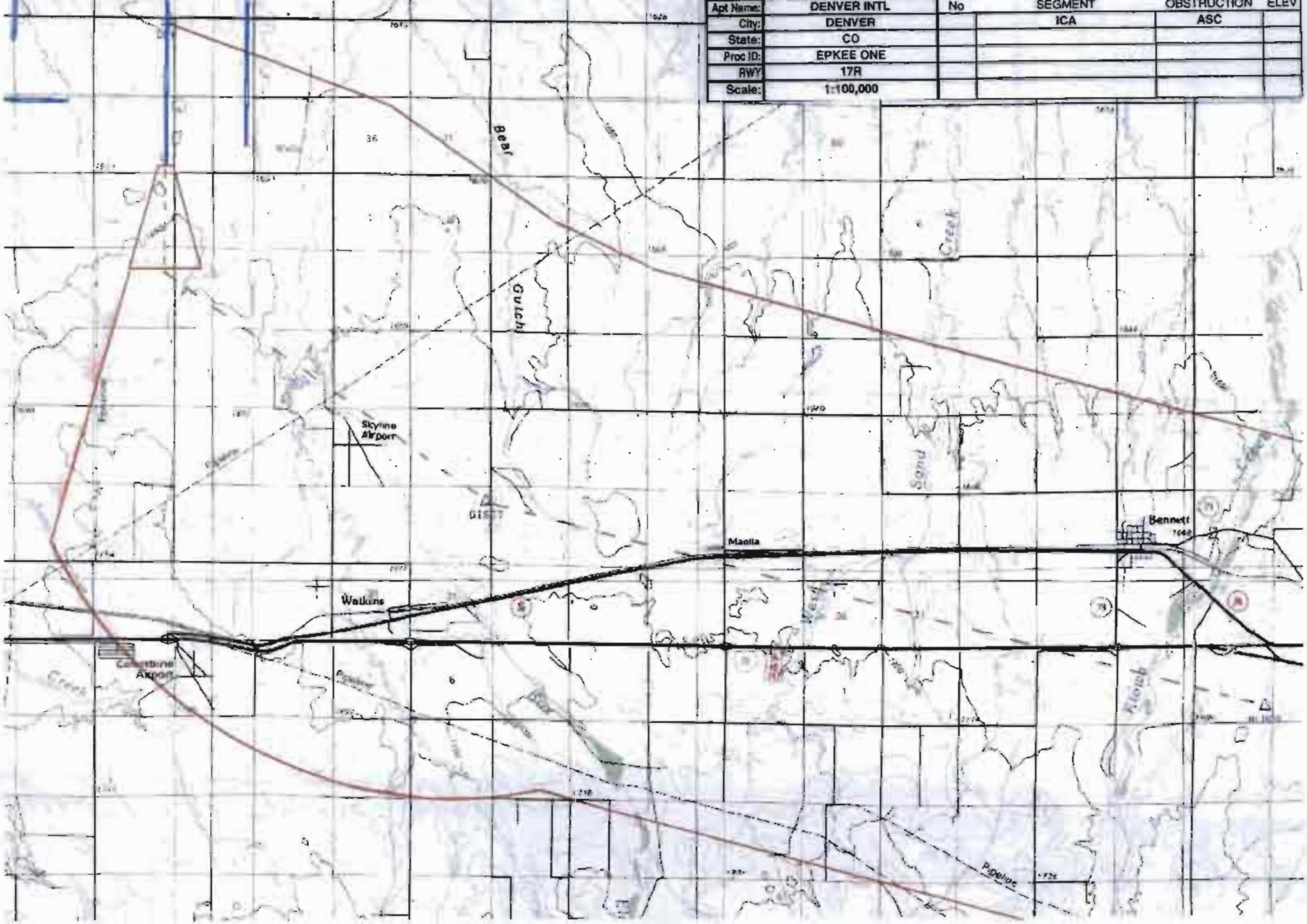
Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	7	SMPSN TO APUUU	AAO	5647
State:	CO	6	APUUU TO VCTRE TO EPKEE	AAO	5686
Proc ID:	EPKEE ONE				
RWY	17R				
Scale:	1:500,000				

NM 1 2 3 4 5 6 7 8 9 10 11 12 13 14

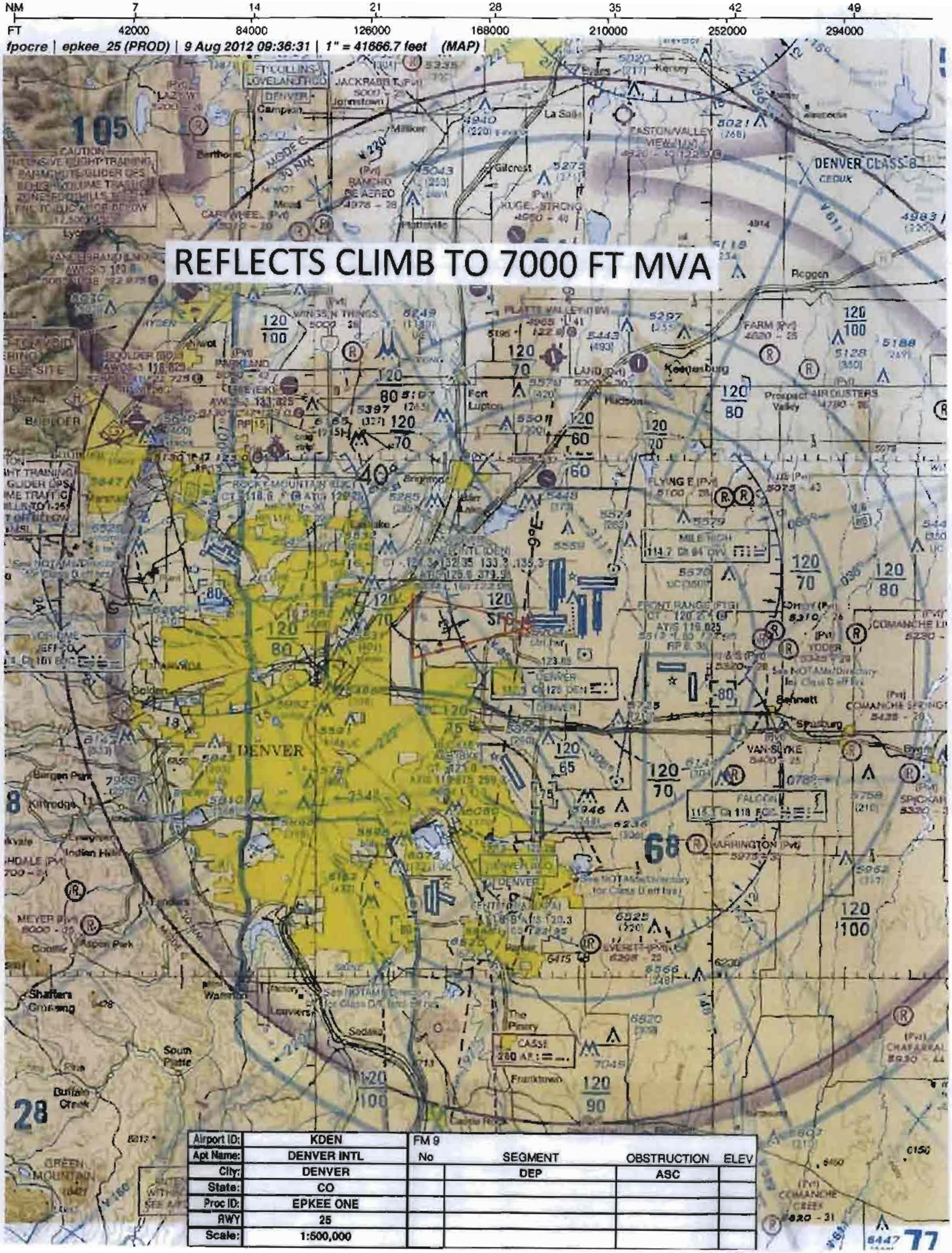
FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000

fpocre | epkee_17r (PROD) | 8 Aug 2012 16:57:09 | 1" = 8333.3 feet (MAP)

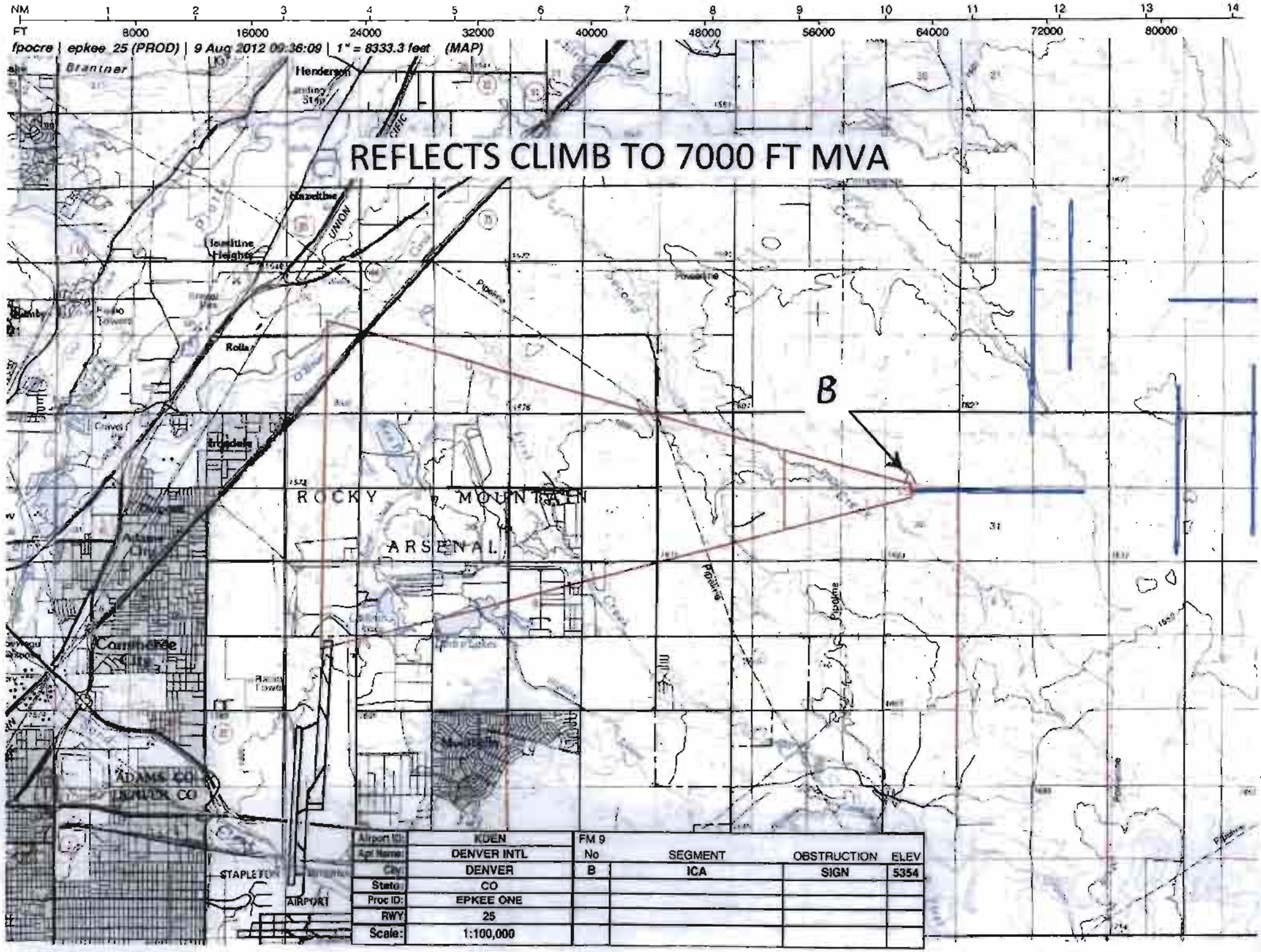
		FM 9			
Airport ID:	KDEN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	DENVER INTL		ICA	ASC	
City:	DENVER				
State:	CO				
Proc ID:	EPKEE ONE				
RWY:	17R				
Scale:	1:100,000				



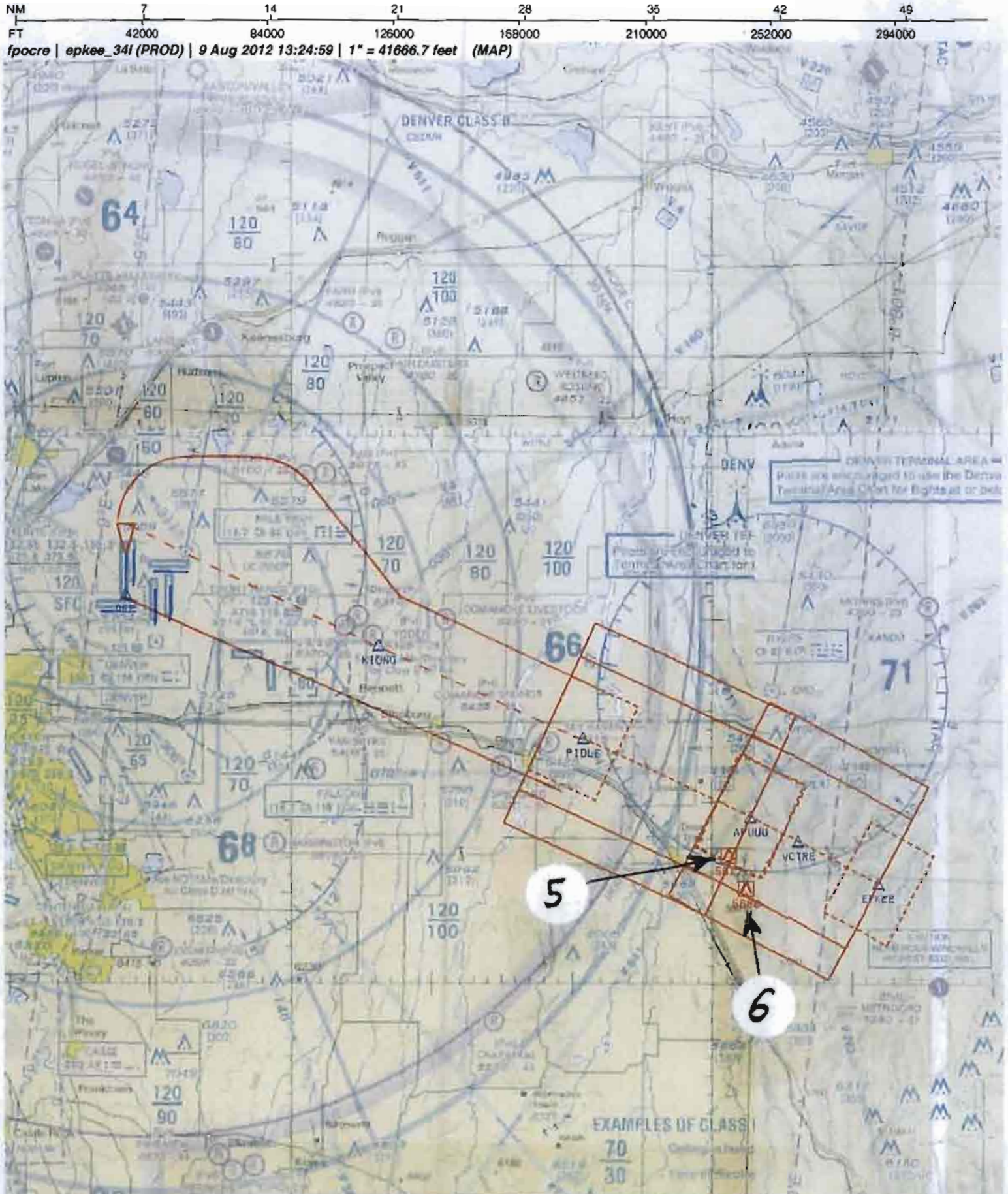
fpocre | epkee_25 (PROD) | 9 Aug 2012 09:36:31 | 1" = 41666.7 feet (MAP)



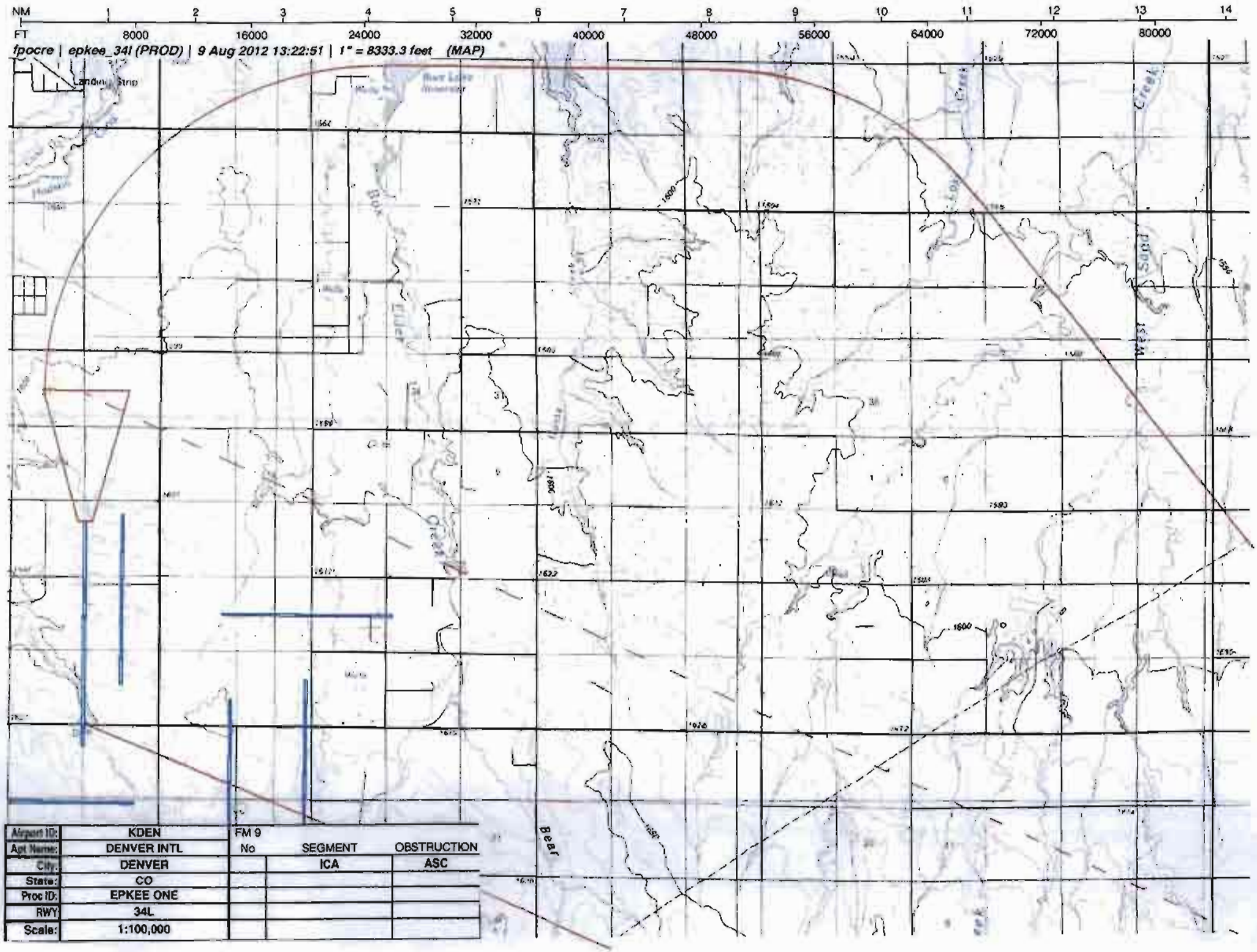
Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER		DEP	ASC	
State:	CO				
Proc ID:	EPKEE ONE				
RWY	25				
Scale:	1:500,000				



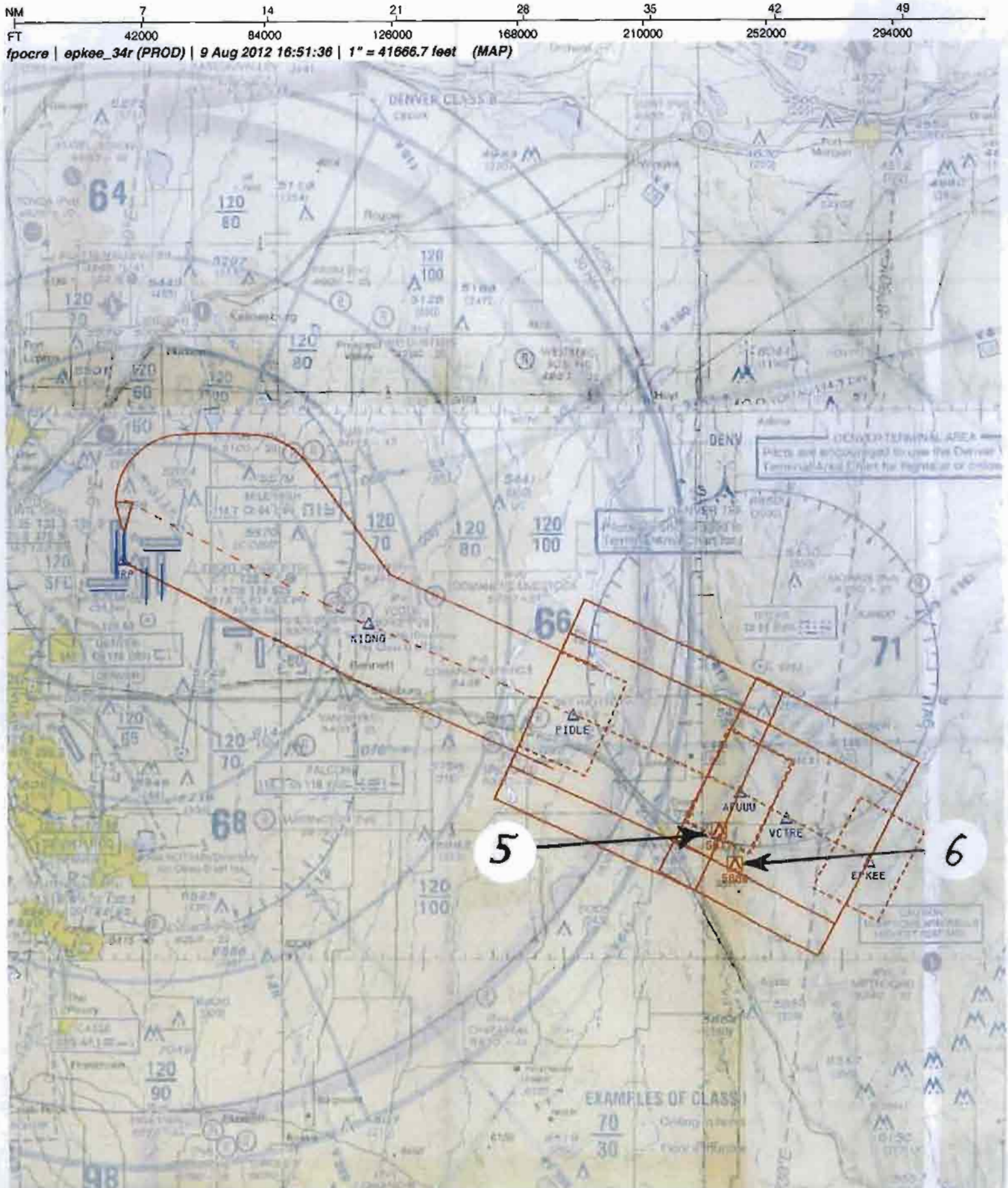
Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	B	ICA	SIGN	5354
State:	CO				
Proc ID:	EPKEE ONE				
RWY:	25				
Scale:	1:100,000				



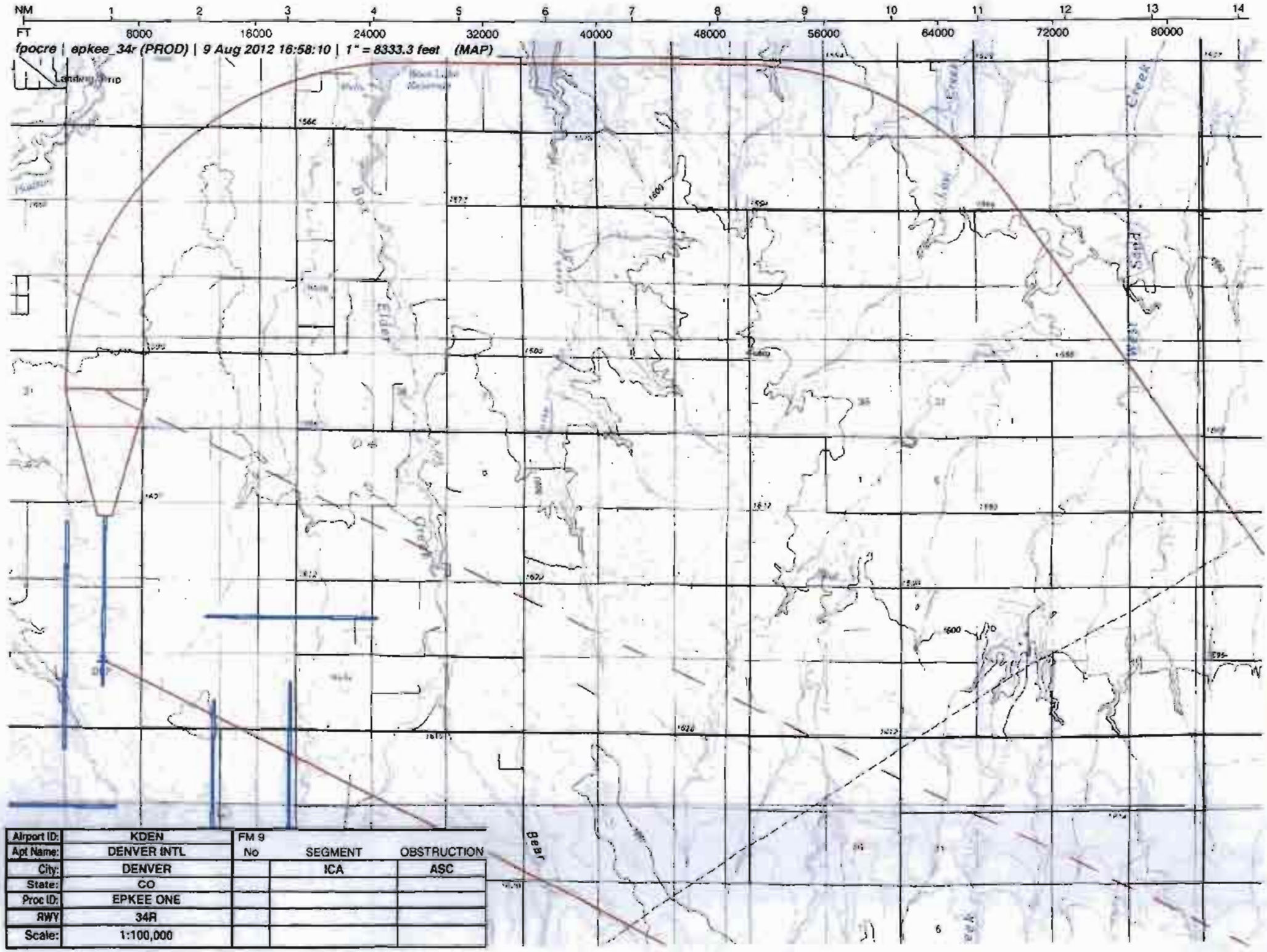
Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	5	PIDLE TO APUUU	AAO	5617
State:	CO	6	APUUU TO VCTRE TO EPKEE	AAO	5686
Proc ID:	EPKEE ONE				
Rwy:	34L				
Scale:	1:500,000				



Airport ID:	KDEN	FM 9		
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION
City:	DENVER		ICA	ASC
State:	CO			
Proc ID:	EPKEE ONE			
RWY:	34L			
Scale:	1:100,000			

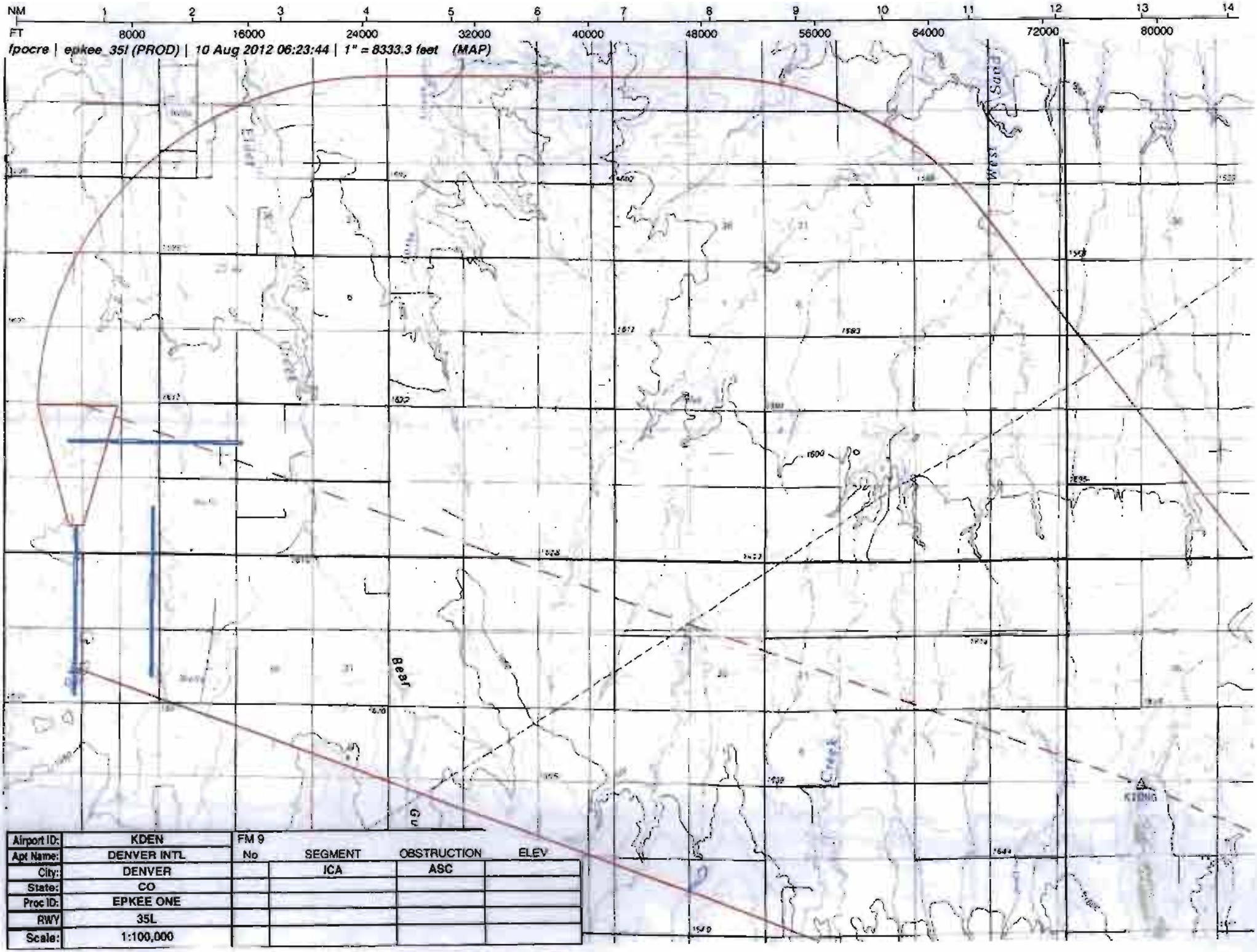


Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	5	PIDLE TO APUUU	AAO	5617
State:	CO	6	APUUU TO VCTRE TO EPKEE	AAO	5686
Proc ID:	EPKEE ONE				
Rwy:	34R				
Scale:	1:500,000				

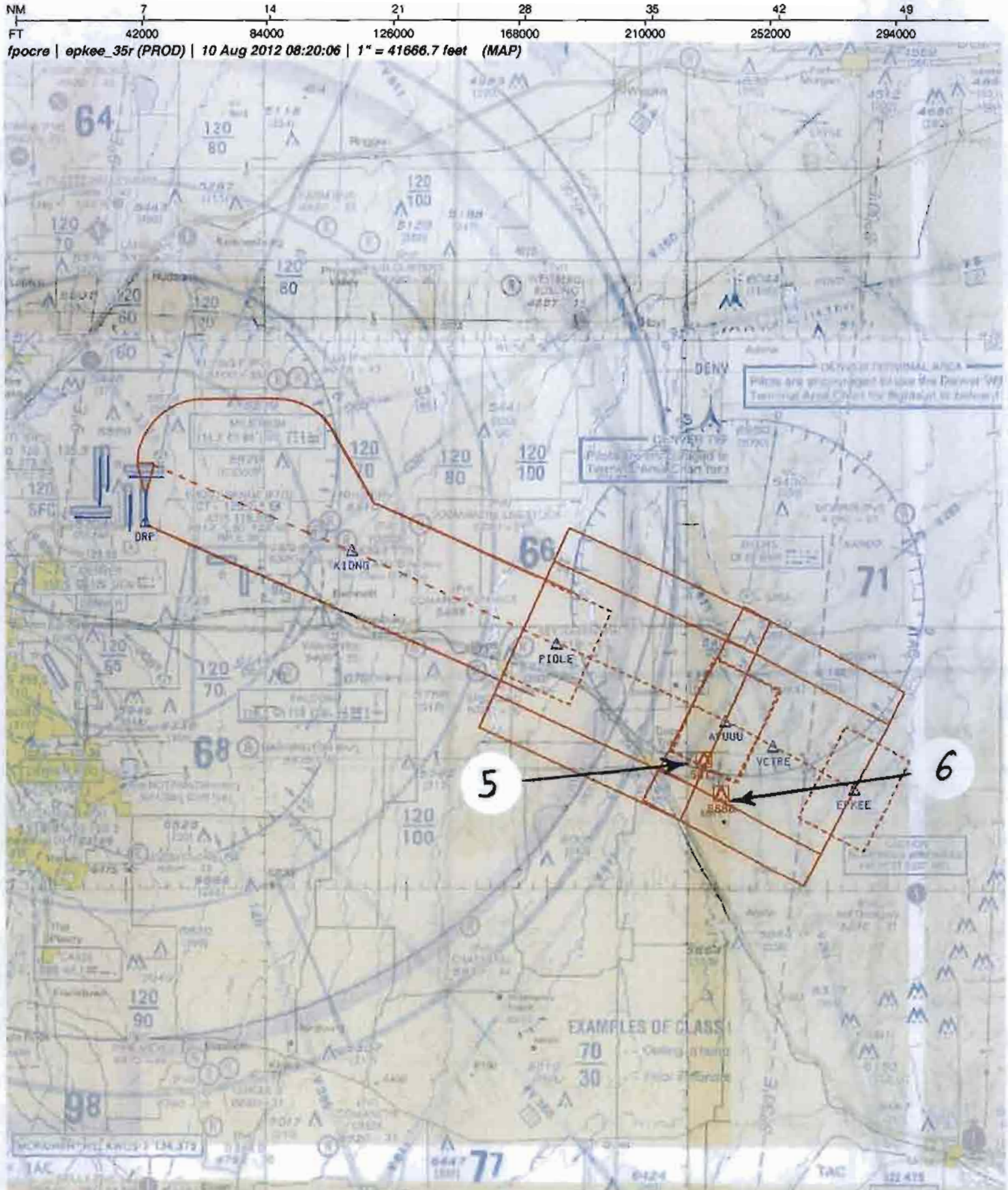


Airport ID:	KDEN	FM 9		
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION
City:	DENVER		ICA	ASC
State:	CO			
Proc ID:	EPKEE ONE			
RWY	34R			
Scale:	1:100,000			

Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	5	PIDLE TO APUUU	AAO	5617
State:	CO	6	APUUU TO VCTRE TO EPKEE	AAO	5686
Proc ID:	EPKEE ONE				
Rwy:	35L				
Scale:	1:500,000				



		FM 9			
Airport ID:	KDEN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	DENVER INTL		ICA	ASC	
City:	DENVER				
State:	CO				
Proc ID:	EPKEE ONE				
RWY	35L				
Scale:	1:100,000				

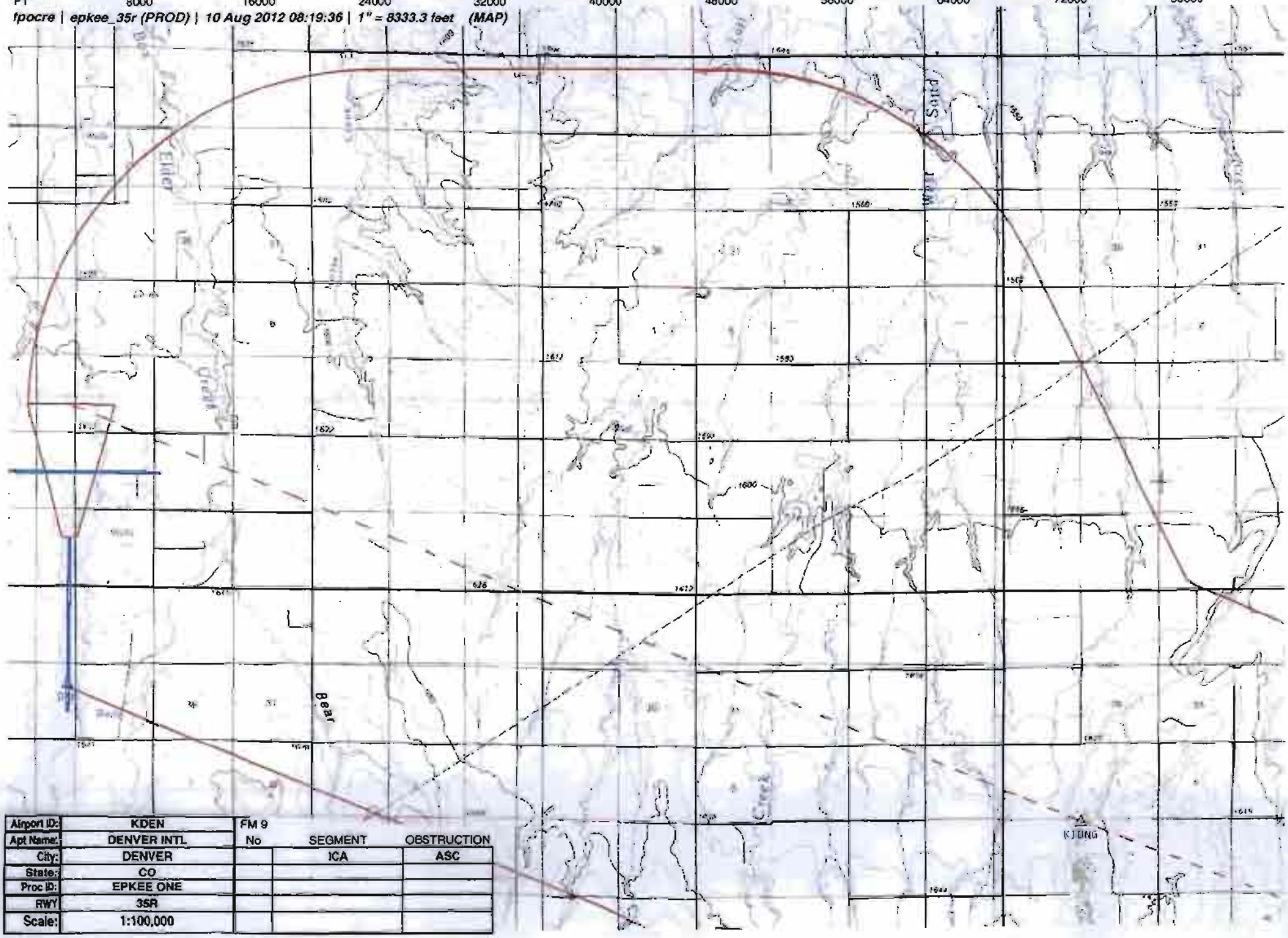


Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	5	PIDLE TO APUUU	AAO	5617
State:	CO	6	APUUU TO VCTRE TO EPKEE	AAO	5686
Proc ID:	EPKEE ONE				
Rwy:	35R				
Scale:	1:500,000				

NM 1 2 3 4 5 6 7 8 9 10 11 12 13 14

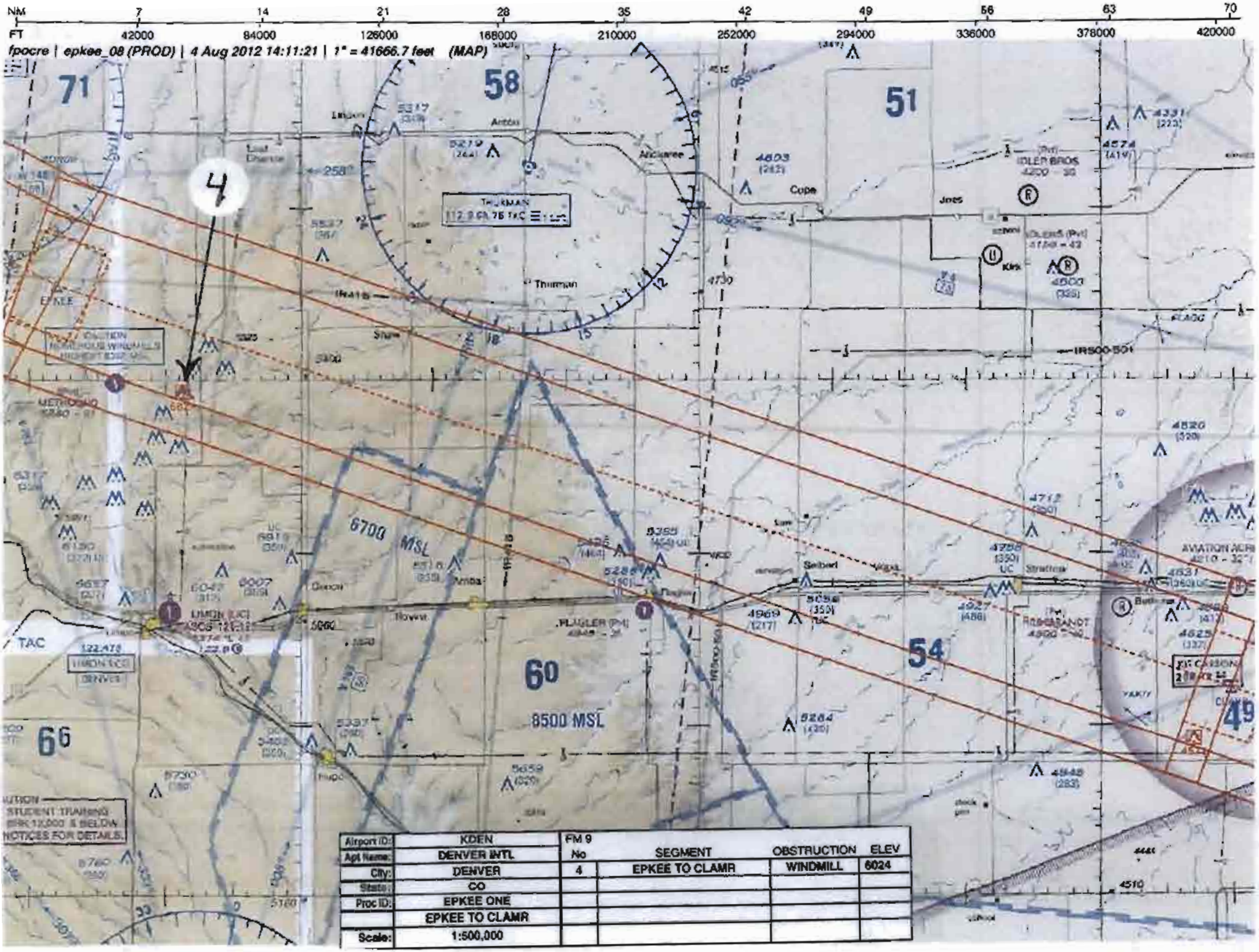
FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000

fpocre | epkee_35r (PROD) | 10 Aug 2012 08:19:36 | 1" = 8333.3 feet (MAP)

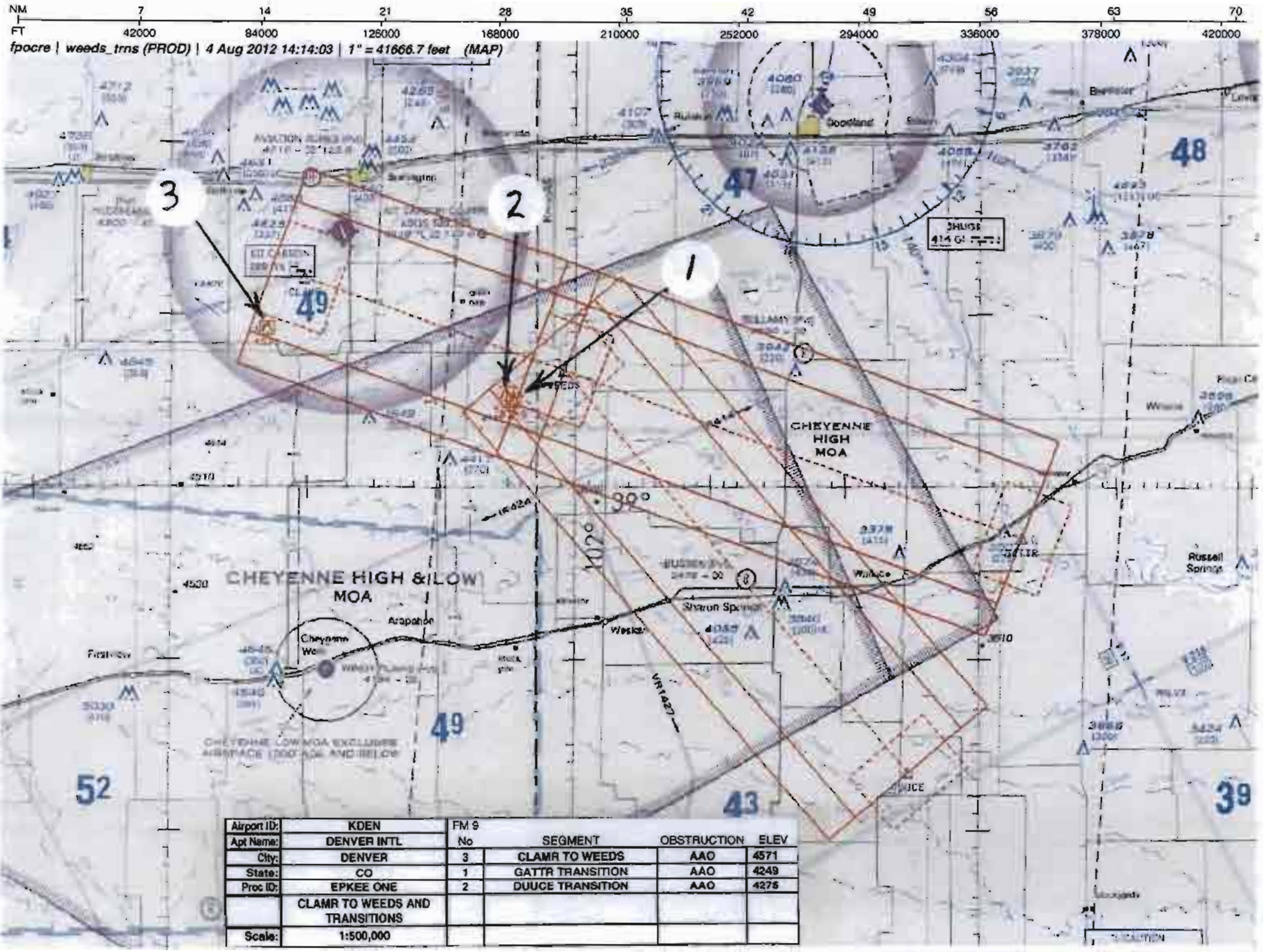


		FM 9		
Airport ID:	KDEN	No	SEGMENT	OBSTRUCTION
Apt Name:	DENVER INTL		ICA	ASC
City:	DENVER			
State:	CO			
Proc ID:	EPKEE ONE			
RWY	35R			
Scale:	1:100,000			

NM 7 14 21 28 35 42 49 56 63 70
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
fpocre | epkee_pna (PROD) | 11 Aug 2012 06:24:23 | 1" = 41666.7 feet (MAP)
DENVER TERMINAL AREA
Pilots are encouraged to use the Denver VFD Terminal Area Chart for flights at or below 17,000
DENVER
66
68
71
AAO
5857'
Airport ID: KDEN
Apt Name: DENVER INTL
City: DENVER
State: CO
Proc ID: EPKEE ONE
PNA
Scale: 1:100,000
FM 9
No SEGMENT OBSTRUCTION ELEV
PNA AAO 5857



Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	4	EPKEE TO CLAMR	WINDMILL	6024
State:	CO				
Proc ID:	EPKEE ONE				
	EPKEE TO CLAMR				
Scale:	1:500,000				



Airport ID:	KDEN	FM 9			
Apt Name:	DENVER INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	DENVER	3	CLAMR TO WEEDS	AAO	4571
State:	CO	1	GATTR TRANSITION	AAO	4249
Proc ID:	EPKEE ONE	2	DUUCE TRANSITION	AAO	4275
	CLAMR TO WEEDS AND TRANSITIONS				
Scale:	1:500,000				

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

DENVER INTL:
TAKEOFF RWY 8, CLIMB HEADING 082.53 TO INTERCEPT COURSE 105.56 TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 106.18 TO PIDLE, THEN ON TRACK 106.57 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO CROSS VCTRE AT OR BELOW FL230, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY16L, CLIMB HEADING 172.51 TO INTERCEPT COURSE 117.93 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 097.10 TO CROSS MLHOS AT OR BELOW 10000, THEN ON TRACK 098.26 TO CROSS SMTHR AT OR BELOW 12000, THEN ON TRACK 092.00 TO SMPSN, THEN ON TRACK 092.10 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO CROSS VCTRE AT OR BELOW FL230, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY16R, CLIMB HEADING 172.51 TO INTERCEPT COURSE 117.93 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 097.10 TO CROSS MLHOS AT OR BELOW 10000, THEN ON TRACK 098.26 TO CROSS SMTHR AT OR BELOW 12000, THEN ON TRACK 092.00 TO SMPSN, THEN ON TRACK 092.10 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO CROSS VCTRE AT OR BELOW FL230, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY17L, CLIMB HEADING 172.54 TO INTERCEPT COURSE 127.46 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 097.10 TO CROSS MLHOS AT OR BELOW 10000, THEN ON TRACK 098.26 TO TO CROSS SMTHR AT OR BELOW 12000, THEN ON TRACK 092.00 TO SMPSN, THEN ON TRACK 092.10 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO CROSS VCTRE AT OR BELOW FL230, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY17R, CLIMB HEADING 172.53 TO INTERCEPT COURSE 117.95 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 097.10 TO CROSS MLHOS AT OR BELOW 10000, THEN ON TRACK 098.26 TO TO CROSS SMTHR AT OR BELOW 12000, THEN ON TRACK 092.00 TO SMPSN, THEN ON TRACK 092.10 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO CROSS VCTRE AT OR BELOW FL230, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY 25, CLIMB HEADING 262.51 TO 5934, THEN CONTINUE CLIMB HEADING 262.51 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO EPKEE, THENCE...

TAKEOFF RWY 34L, CLIMB HEADING 352.51 TO 5934, THEN CLIMBING RIGHT TURN DIRECT TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 106.18 TO PIDLE, THEN ON TRACK 106.57 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO CROSS VCTRE AT OR BELOW FL230, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY 34R, CLIMB HEADING 352.51 TO 5934, THEN CLIMBING RIGHT TURN DIRECT TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 106.18 TO PIDLE, THEN ON TRACK 106.57 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO CROSS VCTRE AT OR BELOW FL230, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY35L, CLIMB HEADING 352.53 TO 5934, THEN CLIMBING RIGHT TURN DIRECT TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 106.18 TO PIDLE, THEN ON TRACK 106.57 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO CROSS VCTRE AT OR BELOW FL230, THEN ON TRACK 109.90 TO EPKEE, THENCE...

TAKEOFF RWY35R, CLIMB HEADING 352.54 TO 5934, THEN CLIMBING RIGHT TURN DIRECT TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 106.18 TO PIDLE, THEN ON TRACK 106.57 TO CROSS APUUU AT OR ABOVE 14000, THEN ON TRACK 109.87 TO CROSS VCTRE AT OR BELOW FL230, THEN ON TRACK 109.90 TO EPKEE, THENCE...

...ON DEPICTED ROUTE TO WEEDS, THEN VIA (TRANSITION). MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

CENTENNIAL:
TAKEOFF RWY 17L /17R, CLIMB HEADING 169.95 TO 6400, THEN CONTINUE CLIMB HEADING 169.95 OR AS ASSIGNED BY ATC, THENCE...

TAKEOFF RWY 35L /35R, CLIMB HEADING 349.95 TO 6400, THEN CONTINUE CLIMB HEADING 349.95 OR AS ASSIGNED BY ATC, THENCE...

...EXPECT RADAR VECTORS TO EPKEE, THEN ON DEPICTED ROUTE TO WEEDS, THEN VIA (TRANSITION). MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER

QUALITY CHECKED

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ROCKY MOUNTAIN METROPOLITAN:
TAKEOFF RWY 11L, 11R: CLIMB HEADING BETWEEN 150 CCW 350 AS ASSIGNED BY ATC. THENCE...
TAKEOFF RWY 29L, 29R, CLIMBING RIGHT TURN HEADING BETWEEN 350 CW 113 AS ASSIGNED BY ATC. THENCE...

...EXPECT RADAR VECTORS TO EPKEE, THEN ON DEPICTED ROUTE TO WEEDS, THEN VIA (TRANSITION). MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

FORT COLLINS-LOVELAND MUNI:
TAKEOFF RWY 15, CLIMB HEADING BETWEEN 180 CCW 350 AS ASSIGNED BY ATC. THENCE...
TAKEOFF RWY 33, CLIMBING RIGHT TURN HEADING BETWEEN 350 CW 150 AS ASSIGNED BY ATC. THENCE...

...EXPECT RADAR VECTORS TO EPKEE, THEN ON DEPICTED ROUTE TO WEEDS, THEN VIA (TRANSITION). MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

FRONT RANGE:
TAKEOFF RWY 8, CLIMB HEADING 083.15 TO 6020, THEN CONTINUE CLIMB HEADING 083.15 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 17, CLIMB HEADING 171.99 TO 6020, THEN CONTINUE CLIMB HEADING 171.99 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 26, CLIMB HEADING 263.17 TO 6020, THEN CONTINUE CLIMB HEADING 263.17 OR AS ASSIGNED BY ATC, THENCE...
TAKEOFF RWY 35, CLIMB HEADING 351.99 TO 6020, THEN CONTINUE CLIMB HEADING 351.99 OR AS ASSIGNED BY ATC, THENCE...

...EXPECT RADAR VECTORS TO EPKEE, THEN ON DEPICTED ROUTE TO WEEDS, THEN VIA (TRANSITION). MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
DUUCE	EPKEE1.DUUCE	WEEDS	DUUCE	131.32	30.77	14000		
GATTR	EPKEE1.GATTR	WEEDS	GATTR	102.05	28.18	14000		

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1.
NOTE: TURBOJETS ONLY.
NOTE: DENVER INTL AIRPORT – TAKEOFF RWY 8, 16L, 16R, 17L, 17R, 34L, 34R, 35L, 35R – RADAR REQUIRED FOR NON GPS EQUIPPED AIRCRAFT.
NOTE: DENVER INTL AIRPORT - RWY 25 DEPARTURES – RADAR REQUIRED.
NOTE: ROCKY MOUNTAIN METROPOLITAN AIRPORT, FORT COLLINS-LOVELAND MUNICIPAL AIRPORT, FRONT RANGE AIRPORT AND CENTENNIAL AIRPORT - RADAR REQUIRED.
NOTE: ACCELERATE TO AT OR ABOVE 250 KNOTS ABOVE 10000. IF SLOWER SPEED IS REQUIRED TO MEET CROSSING RESTRICTIONS, ADVISE ATC PRIOR TO DEPARTURE.

QUALITY CHECKED

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

TAKEOFF MINIMUMS:
DENVER INTL:
RWY 7, 26: NA - ATC
RWY 8: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 255 FT PER NM TO 14000.
RWY 16L: STANDARD WITH MINIMUM CLIMB OF 245 FT PER NM TO 14000.
RWY16R: STANDARD WITH MINIMUM CLIMB OF 450 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 245 FT PER NM TO 14000.
RWY 17L: STANDARD WITH MINIMUM CLIMB OF 465 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 280 FT PER NM TO 14000.
RWY17R: STANDARD WITH MINIMUM CLIMB OF 465 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 250 FT PER NM TO 14000.
RWY 25: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934.
RWY 34L: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 215 FT PER NM TO 14000.
RWY 34R: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 220 FT PER NM TO 14000.
RWY35L: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 230 FT PER NM TO 14000.
RWY35R: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 235 FT PER NM TO 14000.
CENTENNIAL:
RWY 10, 28: NA – ATC
RWY 35L,35R: STANDARD
RWY 17L: STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 8000.
RWY 17R: STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 8000.
ROCKY MOUNTAIN METROPOLITAN:
RWY 2, 20: NA – ATC
RWY 11R, 11L, 29R, STANDARD.
RWY 29L, 300-1 OR STANDARD WITH MINIMUM CLIMB OF 405 FT PER NM TO 5900.
FORT COLLINS-LOVELAND MUNI:
RWY 6, 24, NA – VFR RUNWAY.
RWY 15, 33, STANDARD.
FRONT RANGE:
RWY 8, 17, 26, 35, STANDARD.

TAKEOFF OBSTACLES NOTES:

DENVER INTL:
NOTE: RWY 16L, MULTIPLE SIGNS BEGINNING 126 FT FROM DER, 490 FT LEFT OF CENTERLINE, UP TO 7 FT AGL/5359 FT MSL. COMMUNICATION TWR 4749 FT FROM DER, 1358 FT LEFT OF CENTERLINE, 107 FT AGL/5478 FT MSL.
NOTE: RWY 25, SIGN 48 FT FROM DER, 450 FT RIGHT OF CENTERLINE, 6 FT AGL/5354 FT MSL.
ROCKY MOUNTAIN METROPOLITAN:
NOTE: RWY 29L: TERRAIN BEGINNING 23 FT FROM DER, 28 FT LEFT OF CENTERLINE, UP TO 5708 FT MSL. FENCE 982 FT FROM DER, 303 FT LEFT OF CENTERLINE, 14 FT AGL/5714 FT MSL. FENCE 1015 FT FROM DER, 392 FT LEFT OF CENTERLINE, 15 FT AGL/5725 FT MSL. MULTIPLE TREES BEGINNING 687 FT FROM DER, 615 FT RIGHT OF CENTERLINE UP TO 70 FT AGL/5839 FT MSL. TREE 3196 FT FROM DER, 1337 FT LEFT OF CENTERLINE, 70 FT AGL/5839 FT MSL.
CENTENNIAL:
NOTE: RWY 17L, TREES BEGINNING 2968 FT FROM DER, 761 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/5976 FT MSL.
NOTE: RWY 17R, TERRAIN 181 FT FROM DER, 496 FT RIGHT OF CENTERLINE, 5887 FT MSL. FENCE 538 FT FROM DER, 196 FT RIGHT OF CENTERLINE, 8 FT AGL/5886 FT MSL. TREES BEGINNING 562 FT FROM DER, 61 FT RIGHT OF CENTERLINE, UP TO 16 FT AGL/5976 FT MSL. MULTIPLE LIGHT POLES BEGINNING 2362 FT FROM DER, 256 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/5942 FT MSL. OBSTRUCTION LIGHT ON BUILDING 3282 FT FROM DER, 842 FT RIGHT OF CENTERLINE, 90 FT AGL/6021 FT MSL.
FORT COLLINS-LOVELAND MUNI:
NOTE: RWY 33, TREES BEGINNING 833 FT FROM DER, 516 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/5025 FT MSL. MULTIPLE POLES BEGINNING 567 FT FROM DER, 540 FT LEFT OF CENTERLINE, UP TO 26 FT AGL/4995 FT MSL.

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

FRONT RANGE:
NOTE: RWY 17, POLE 3618 FT FROM DER, 516 FT LEFT OF CENTERLINE, 43 FT AGL/5603 FT MSL.
NOTE: RWY 26, TREES BEGINNING 98 FT FROM DER, 456 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/5489 FT MSL.

CONTROLLING OBSTACLES:

CENTENNIAL:
RWY 17L: 6559 FT MSL AAO 392953.93N/1045044.26.
RWY 17R: 6021 FT MSL OBS LT ON BLDG 393302.52N/1045119.43W, 6559 FT MSL AAO 392953.93N/1045044.26W.
ROCKY MOUNTAIN METROPOLITAN:
RWY 29L: 5839 FT MSL TREE 395457.98N/1050837.12W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KDEN 8E EPOCH YR: 2015
DME/DME ASSESSMENT:SAT (RNP 2.0)
PILOT NAVIGATION AREA:
10 NM ARC CENTERED ON EPKEE (IF), CW FROM: POINT A (BEARING 055.55 DEGREES TO EPKEE): TO: POINT B (BEARING 145.55 DEGREES TO EPKEE):
MINIMUM ALTITUDE - 14000

AIRPORTS SERVED:

DENVER INTL	DENVER , CO
ROCKY MOUNTAIN METROPOLITAN	DENVER, CO
CENTENNIAL	DENVER, CO
FRONT RANGE	DENVER, CO
FORT COLLINS-LOVELAND MUNI	FORT COLLINS/LOVELAND, CO

COMMUNICATIONS:

DENVER INTL:
ATIS, CLEARANCE DELIVERY, DEP CON
CENTENNIAL AIRPORT:
ATIS, CLEARANCE DELIVERY, DEP CON
ROCKY MOUNTAIN METROPOLITAN:
ATIS, CLEARANCE DELIVERY, DEP CON
FORT COLLINS-LOVELAND MINICIPAL:
DEP CON
FRONT RANGE :
ATIS, CLEARANCE DELIVERY, DEP CON

QUALITY 4 CHECKED

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

FIXES AND/OR NAVAIDS:

REMARKS:

CLIMB GRADIENTS AT CENTENNIAL OFF RWY 17L/R ARE OBSTACLE DRIVEN WITH THE CLIMB TO ALTITUDE DETERMINED BY LOCATION OF 8000 MVA AND PROXIMITY TO HIGHER MVA'S.

DENVER INTL CLIMB GRADIENTS ARE FOR FMS ENGAGEMENT AT SPECIFIC LOCATIONS AND FOR CROSSING APUUU AT/ABOVE 14000/CROSSING CLAMR AT/ABOVE FL300.

THE AIRLINE INDUSTRY HAS REQUESTED THAT BLOCK ALTITUDES NOT BE PUBLISHED ON THE PROCEDURE, WAIVER SUBMITTED TO REMOVE AT/ABOVE ALTITUDES ASSOCIATED WITH CROSS AT OR BELOW ALTITUDES.

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

FLIGHT INSPECTED BY:

JAMES M. MEEK FIFO 10/18/12

REQUIRED EFFECTIVE DATE:

DEVELOPED BY:

CHARLES ERICKSON AJV-354 08/02/12

APPROVED BY:

DEZ SILAGYI AJV-354

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, ZDV, DEN ATCT, DEN APP CON, CO AERO MGR, APT MGR'S

CHANGES:

REASONS:

10/31/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/02/12.

1. ON THE 8260-15C, REMOVED CLAMR AND WEEDS FROM ALL RWY TRANSITIONS AND ADDED A COMMON ROUTE EPKEE TO CLAMR TO WEEDS TO SUPPORT AIRLINE INDUSTRY REQUEST.
   THERE IS NO CHANGE TO THE ROUTE - THIS IS INTENDED TO BE A CODING CHANGE ONLY.
2. REMOVED GND CON AND TWR FROM COMMUNICATIONS ON EACH AIRPORT PER ATC REQUEST.
3. CORRECTED SPELLING IN COMMUNICATIONS FROM: MINICIPAL TO: MUNICIPAL.

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
DENVER INTL (KDEN)									
RW08 (AER)	395239.20N/1043944.03W	N	-	-	-	-			CG 500 FT PER NM TO 5934 THEN CG 255 FT PER NM TO 14000 RECOMMENDED NAVAID: DENVER VOR/DME. VI/CF PERMITTED
	395237.36N/1043530.40W	-	-	VI	090.53	3.25			
KIDNG	394837.67N/1042339.58W	Y	FB	CF	113.56	9.96	AT/BELOW 10000		
PIDLE	394334.36N/1040907.55W	Y	FB	TF	114.18	12.29			
APUUU	393919.69N/1035708.68W	Y	FB	TF	114.57	10.17	AT/ABOVE 14000		
VCTRE	393755.42N/1035342.73W	Y	FB	TF	117.87	3.00	AT/BELOW FL230		
EPKEE	393534.21N/1034758.30W	Y	FB	TF	117.90	5.02			
RW16L (AER)	395349.33N/1044112.50W	N	-	-	-	-			CG 245 FT PER NM TO 14000 RECOMMENDED NAVAID: DENVER VOR/DME. VI/CF PERMITTED
	394927.09N/1044115.54W	-	-	VI	180.51	4.37			
GISTT	394557.50N/1043501.10W	Y	FB	CF	125.93	5.94	AT/ABOVE 7000		
MLHOS	394336.54N/1042347.24W	Y	FB	TF	105.10	8.98	AT/BELOW 10000		
SMTHR	394202.14N/1041649.26W	Y	FB	TF	106.26	5.60	AT/BELOW 12000		
SMPSN	394038.43N/1040637.98W	Y	FB	TF	100.00	7.99			
APUUU	393919.69N/1035708.68W	Y	FB	TF	100.10	7.44	AT/ABOVE 14000		
VCTRE	393755.42N/1035342.73W	Y	FB	TF	117.87	3.00	AT/BELOW FL230		
EPKEE	393534.21N/1034758.30W	Y	FB	TF	117.90	5.02			
RW16R (AER)	395344.87N/1044145.90W	N	-	-	-	-			CG 450 FT PER NM TO 5934 THEN CG 245 FT PER NM TO 14000 RECOMMENDED NAVAID: DENVER VOR/DME. VI/CF PERMITTED
	394945.61N/1044148.66W	-	-	VI	180.51	3.98			
GISTT	394557.50N/1043501.10W	Y	FB	CF	125.93	6.46	AT/ABOVE 7000		
MLHOS	394336.54N/1042347.24W	Y	FB	TF	105.10	8.98	AT/BELOW 10000		
SMTHR	394202.14N/1041649.26W	Y	FB	TF	106.26	5.60	AT/BELOW 12000		
SMPSN	394038.43N/1040637.98W	Y	FB	TF	100.00	7.99			
APUUU	393919.69N/1035708.68W	Y	FB	TF	100.10	7.44	AT/ABOVE 14000		
VCTRE	393755.42N/1035342.73W	Y	FB	TF	117.87	3.00	AT/BELOW FL230		
EPKEE	393534.21N/1034758.30W	Y	FB	TF	117.90	5.02			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW17L (AER)	395153.83N/1043828.70W	N	-	-	-	-			CG 465 FT PER NM TO 5934 THEN CG 280 FT PER NM TO 14000
	394842.21N/1043831.05W	-	-	VI	180.54	3.19			RECOMMENDED NAVAID: DENVER VOR/DME. VI/CF PERMITTED
GISTT	394557.50N/1043501.10W	Y	FB	CF	135.46	3.85	AT/ABOVE 7000		
MLHOS	394336.54N/1042347.24W	Y	FB	TF	105.10	8.98	AT/BELOW 10000		
SMTHR	394202.14N/1041649.26W	Y	FB	TF	106.26	5.60	AT/BELOW 12000		
SMPSN	394038.43N/1040637.98W	Y	FB	TF	100.00	7.99			
APUUU	393919.69N/1035708.68W	Y	FB	TF	100.10	7.44	AT/ABOVE 14000		
VCTRE	393755.42N/1035342.73W	Y	FB	TF	117.87	3.00	AT/BELOW FL230		
EPKEE	393534.21N/1034758.30W	Y	FB	TF	117.90	5.02			
RW17R (AER)	395140.48N/1043936.56W	N	-	-	-	-			CG 465 FT PER NM TO 5934 THEN CG 250 FT PER NM TO 14000
	394833.02N/1043938.81W	-	-	VI	180.53	3.12			RECOMMENDED NAVAID: DENVER VOR/DME. VI/CF PERMITTED
GISTT	394557.50N/1043501.10W	Y	FB	CF	125.95	4.41	AT/ABOVE 7000		
MLHOS	394336.54N/1042347.24W	Y	FB	TF	105.10	8.98	AT/BELOW 10000		
SMTHR	394202.14N/1041649.26W	Y	FB	TF	106.26	5.60	AT/BELOW 12000		
SMPSN	394038.43N/1040637.98W	Y	FB	TF	100.00	7.99			
APUUU	393919.69N/1035708.68W	Y	FB	TF	100.10	7.44	AT/ABOVE 14000		
VCTRE	393755.42N/1035342.73W	Y	FB	TF	117.87	3.00	AT/BELOW FL230		
EPKEE	393534.21N/1034758.30W	Y	FB	TF	117.90	5.02			
RW25 (AER)	395026.37N/1044102.17W	N	-	-	-	-			CG 400 FT PER NM TO 5934
5934 MSL		-	-	VA	270.51	-			
		-	-	VM	270.51	-			
EPKEE	393534.21N/1034758.30W	Y	FB	DF	-	-			LEFT TURN

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW34L (AER)	395106.79N/1044147.72W	N	-	-	-	-			CG 400 FT PER NM TO 5934 THEN 215 FT PER NM TO 14000
5934 MSL		-	-	VA	000.51	-			
KIDNG	394837.67N/1042339.58W	Y	FB	DF	-	-	AT/BELOW 10000		RIGHT TURN
PIDLE	394334.36N/1040907.55W	Y	FB	TF	114.18	12.29			
APUUU	393919.69N/1035708.68W	Y	FB	TF	114.57	10.17	AT/ABOVE 14000		
VCTRE	393755.42N/1035342.73W	Y	FB	TF	117.87	3.00	AT/BELOW FL230		
EPKEE	393534.21N/1034758.30W	Y	FB	TF	117.90	5.02			
RW34R (AER)	395150.77N/1044113.88W	N	-	-	-	-			CG 400 FT PER NM TO 5934 THEN 220 FT PER NM TO 14000
5934 MSL		-	-	VA	000.51	-			
KIDNG	394837.67N/1042339.58W	Y	FB	DF	-	-	AT/BELOW 10000		RIGHT TURN
PIDLE	394334.36N/1040907.55W	Y	FB	TF	114.18	12.29			
APUUU	393919.69N/1035708.68W	Y	FB	TF	114.57	10.17	AT/ABOVE 14000		
VCTRE	393755.42N/1035342.73W	Y	FB	TF	117.87	3.00	AT/BELOW FL230		
EPKEE	393534.21N/1034758.30W	Y	FB	TF	117.90	5.02			
RW35L (AER)	394941.93N/1043937.98W	N	-	-	-	-			CG 400 FT PER NM TO 5934 THEN 230 FT PER NM TO 14000
5934 MSL		-	-	VA	000.53	-			
KIDNG	394837.67N/1042339.58W	Y	FB	DF	-	-	AT/BELOW 10000		RIGHT TURN
PIDLE	394334.36N/1040907.55W	Y	FB	TF	114.18	12.29			
APUUU	393919.69N/1035708.68W	Y	FB	TF	114.57	10.17	AT/ABOVE 14000		
VCTRE	393755.42N/1035342.73W	Y	FB	TF	117.87	3.00	AT/BELOW FL230		
EPKEE	393534.21N/1034758.30W	Y	FB	TF	117.90	5.02			
RW35R (AER)	394955.27N/1043830.16W	N	-	-	-	-			CG 400 FT PER NM TO 5934 THEN 235 FT PER NM TO 14000
5934 MSL		-	-	VA	000.54	-			
KIDNG	394837.67N/1042339.58W	Y	FB	DF	-	-	AT/BELOW 10000		RIGHT TURN
PIDLE	394334.36N/1040907.55W	Y	FB	TF	114.18	12.29			
APUUU	393919.69N/1035708.68W	Y	FB	TF	114.57	10.17	AT/ABOVE 14000		
VCTRE	393755.42N/1035342.73W	Y	FB	TF	117.87	3.00	AT/BELOW FL230		
EPKEE	393534.21N/1034758.30W	Y	FB	TF	117.90	5.02			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
EPKEE	393534.21N/1034758.30W	Y	-	IF	-	-			
CLAMR	391205.95N/1022012.04W	Y	FB	TF	108.55	71.97	AT/ABOVE FL300		
WEEDS	390643.27N/1020046.77W	Y	FB	TF	109.48	16.03			
CENTENNIAL (KAPA)									
RW17L (AER)	393502.92N/1045105.30W	N	-	-	-	-			CG 255 FT PER NM TO 8000
6400 MSL		-	-	VA	177.95	-			
		-	-	VM	177.95	-			
EPKEE	393534.21N/1034758.30W	Y	FB	DF	-	-			
RW17R (AER)	393444.34N/1045113.38W	N	-	-	-	-			CG 370 FT PER NM TO 8000
6400 MSL		-	-	VA	177.95	-			
		-	-	VM	177.95	-			
EPKEE	393534.21N/1034758.30W	Y	FB	DF	-	-			
RW35L (AER)	393335.23N/1045110.19W	N	-	-	-	-			
6400 MSL		-	-	VA	357.95	-			
		-	-	VM	357.95	-			
EPKEE	393534.21N/1034758.30W	Y	FB	DF	-	-			
RW35R (AER)	393324.18N/1045100.74W	N	-	-	-	-			
6400 MSL		-	-	VA	357.95	-			
		-	-	VM	357.95	-			
EPKEE	393534.21N/1034758.30W	Y	FB	DF	-	-			
EPKEE	393534.21N/1034758.30W	Y	-	IF	-	-			
CLAMR	391205.95N/1022012.04W	Y	FB	TF	108.55	71.97	AT/ABOVE FL300		
WEEDS	390643.27N/1020046.77W	Y	FB	TF	109.48	16.03			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
ROCKY MOUNTAIN METROPOLITAN (KBJC)									
EPKEE	393534.21N/1034758.30W	Y	-	IF	-	-			
CLAMR	391205.95N/1022012.04W	Y	FB	TF	108.55	71.97	AT/ABOVE FL300		
WEEDS	390643.27N/1020046.77W	Y	FB	TF	109.48	16.03			
FORT COLLINS-LOVLAND MUNI (KFNL)									
EPKEE	393534.21N/1034758.30W	Y	-	IF	-	-			
CLAMR	391205.95N/1022012.04W	Y	FB	TF	108.55	71.97	AT/ABOVE FL300		
WEEDS	390643.27N/1020046.77W	Y	FB	TF	109.48	16.03			
FRONT RANGE (KFTG)									
RW08 (AER)	394738.42N/1043354.87	N	-	-	-	-			
6020 MSL		-	-	VA	091.15	-			
		-	-	VM	091.15	-			
EPKEE	393534.21N/1034758.30W	Y	FB	DF	-	-			
RW17 (AER)	394708.15N/1043127.24W	N	-	-	-	-			
6020 MSL		-	-	VA	179.99	-			
		-	-	VM	179.99	-			
EPKEE	393534.21N/1034758.30W	Y	FB	DF	-	-			
RW26 (AER)	394736.82N/1043212.43W	N	-	-	-	-			
6020 MSL		-	-	VA	271.17	-			
		-	-	VM	271.17	-			
EPKEE	393534.21N/1034758.30W	Y	FB	DF	-	-			
RW35 (AER)	394549.10N/1043127.22	N	-	-	-	-			
6020 MSL		-	-	VA	359.99	-			
		-	-	VM	359.99	-			
EPKEE	393534.21N/1034758.30W	Y	FB	DF	-	-			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE	ONE	EPKEE1.WEEDS	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
EPKEE	393534.21N/1034758.30W	Y	-	IF	-	-			
CLAMR	391205.95N/1022012.04W	Y	FB	TF	108.55	71.97	AT/ABOVE FL300		
WEEDS	390643.27N/1020046.77W	Y	FB	TF	109.48	16.03			
WEEDS	390643.27N/1020046.77W	Y	-	IF	-	-			EPKEE1.DUUCE
DUUCE	384318.87N/1013508.90W	Y	FB	TF	139.32	30.77			
WEEDS	390643.27N/1020046.77W	Y	-	IF	-	-			EPKEE1.GATTR
GATTR	385658.11N/1012651.02W	Y	FB	TF	110.05	28.18			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        DEN   K2011790VDHW N39484505W104393866    N39484505W104393866E0080054522     NARDENVER

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   APUUU K20    W     N39391969W103570868                      E0082     NAR           APUUU
        SUSAEAENRT   CLAMR K20    W     N39120595W102201204                      E0072     NAR           CLAMR
        SUSAEAENRT   DUUCE K30    W     N38431887W101350890                      E0068     NAR           DUUCE
        SUSAEAENRT   EPKEE K20    R     N39353421W103475830                      E0081     NAR           EPKEE
        SUSAEAENRT   GATTR K30    W     N38565811W101265102                      E0067     NAR           GATTR
        SUSAEAENRT   GISTT K20    W     N39455750W104350110                      E0085     NAR           GISTT
        SUSAEAENRT   KIDNG K20    W     N39483767W104233958                      E0084     NAR           KIDNG
        SUSAEAENRT   MLHOS K20    W     N39433654W104234724                      E0084     NAR           MLHOS
        SUSAEAENRT   PIDLE K20    W     N39433436W104090755                      E0083     NAR           PIDLE
        SUSAEAENRT   SMPSN K20    W     N39403843W104063798                      E0083     NAR           SMPSN
        SUSAEAENRT   SMTHR K20    W     N39420214W104164926                      E0084     NAR           SMTHR
        SUSAEAENRT   VCTRE K20    W     N39375542W103534273                      E0081     NAR           VCTRE
        SUSAEAENRT   WEEDS K30    R     N39064327W102004677                      E0070     NAR           WEEDS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDENK2ADEN     0     160YHN39514200W104402340E008005434         1800018000C    MNAR    DENVER INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDENK2DEPKEE14RW08  010         0        VI                    0825                    18000
        SUSAP KDENK2DEPKEE14RW08  020KIDNGK2EA0E    010CF DEN K2      0825012310560100D   - 10000
        SUSAP KDENK2DEPKEE14RW08  030PIDLEK2EA0E    010TF                     10620123
        SUSAP KDENK2DEPKEE14RW08  040APUUUK2EA0E    010TF                     10660102    + 14000
        SUSAP KDENK2DEPKEE14RW08  050VCTREK2EA0E    010TF                     10990030    - FL230
        SUSAP KDENK2DEPKEE14RW08  060EPKEEK2EA0EE   010TF                     10990050
        SUSAP KDENK2DEPKEE14RW16L 010         0        VI                    1725                    18000
        SUSAP KDENK2DEPKEE14RW16L 020GISTTK2EA0E    010CF DEN K2      1200004511790059D   + 07000
        SUSAP KDENK2DEPKEE14RW16L 030MLHOSK2EA0E    010TF                     09710090    - 10000
        SUSAP KDENK2DEPKEE14RW16L 040SMTHRK2EA0E    010TF                     09830056    - 12000
        SUSAP KDENK2DEPKEE14RW16L 050SMPSNK2EA0E    010TF                     09200080
        SUSAP KDENK2DEPKEE14RW16L 060APUUUK2EA0E    010TF                     09210074    + 14000
        SUSAP KDENK2DEPKEE14RW16L 070VCTREK2EA0E    010TF                     10990030    - FL230
        SUSAP KDENK2DEPKEE14RW16L 080EPKEEK2EA0EE   010TF                     10990050
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QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

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SUSAP KDENK2DEPKEE14RW16R 010          0        VI                    1725                    18000
SUSAP KDENK2DEPKEE14RW16R 020GISTTK2EA0E    010CF DEN K2      1200004511790065D   + 07000
SUSAP KDENK2DEPKEE14RW16R 030MLHOSK2EA0E    010TF                    09710090    - 10000
SUSAP KDENK2DEPKEE14RW16R 040SMTHRK2EA0E    010TF                    09830056    - 12000
SUSAP KDENK2DEPKEE14RW16R 050SMPSNK2EA0E    010TF                    09200080
SUSAP KDENK2DEPKEE14RW16R 060APUUUK2EA0E    010TF                    09210074    + 14000
SUSAP KDENK2DEPKEE14RW16R 070VCTREK2EA0E    010TF                    10990030    - FL230
SUSAP KDENK2DEPKEE14RW16R 080EPKEEK2EA0EE   010TF                    10990050
SUSAP KDENK2DEPKEE14RW17L 010          0        VI                    1725                    18000
SUSAP KDENK2DEPKEE14RW17L 020GISTTK2EA0E    010CF DEN K2      1200004512750039D   + 07000
SUSAP KDENK2DEPKEE14RW17L 030MLHOSK2EA0E    010TF                    09710090    - 10000
SUSAP KDENK2DEPKEE14RW17L 040SMTHRK2EA0E    010TF                    09830056    - 12000
SUSAP KDENK2DEPKEE14RW17L 050SMPSNK2EA0E    010TF                    09200080
SUSAP KDENK2DEPKEE14RW17L 060APUUUK2EA0E    010TF                    09210074    + 14000
SUSAP KDENK2DEPKEE14RW17L 070VCTREK2EA0E    010TF                    10990030    - FL230
SUSAP KDENK2DEPKEE14RW17L 080EPKEEK2EA0EE   010TF                    10990050
SUSAP KDENK2DEPKEE14RW17R 010          0        VI                    1725                    18000
SUSAP KDENK2DEPKEE14RW17R 020GISTTK2EA0E    010CF DEN K2      1200004511800044D   + 07000
SUSAP KDENK2DEPKEE14RW17R 030MLHOSK2EA0E    010TF                    09710090    - 10000
SUSAP KDENK2DEPKEE14RW17R 040SMTHRK2EA0E    010TF                    09830056    - 12000
SUSAP KDENK2DEPKEE14RW17R 050SMPSNK2EA0E    010TF                    09200080
SUSAP KDENK2DEPKEE14RW17R 060APUUUK2EA0E    010TF                    09210074    + 14000
SUSAP KDENK2DEPKEE14RW17R 070VCTREK2EA0E    010TF                    10990030    - FL230
SUSAP KDENK2DEPKEE14RW17R 080EPKEEK2EA0EE   010TF                    10990050
SUSAP KDENK2DEPKEE14RW25  010          0        VA                    2625        + 05934     18000
SUSAP KDENK2DEPKEE14RW25  020          0        VM                    2625
SUSAP KDENK2DEPKEE14RW25  030EPKEEK2EA0EE   010DF
SUSAP KDENK2DEPKEE14RW34B 010          0        VA                    3525        + 05934     18000
SUSAP KDENK2DEPKEE14RW34B 020KIDNGK2EA0E   R010DF                                - 10000
SUSAP KDENK2DEPKEE14RW34B 030PIDLEK2EA0E    010TF                    10620123
SUSAP KDENK2DEPKEE14RW34B 040APUUUK2EA0E    010TF                    10660102    + 14000
SUSAP KDENK2DEPKEE14RW34B 050VCTREK2EA0E    010TF                    10990030    - FL230
SUSAP KDENK2DEPKEE14RW34B 060EPKEEK2EA0EE   010TF                    10990050
SUSAP KDENK2DEPKEE14RW35B 010          0        VA                    3525        + 05934     18000
SUSAP KDENK2DEPKEE14RW35B 020KIDNGK2EA0E   R010DF                                - 10000
SUSAP KDENK2DEPKEE14RW35B 030PIDLEK2EA0E    010TF                    10620123
SUSAP KDENK2DEPKEE14RW35B 040APUUUK2EA0E    010TF                    10660102    + 14000
SUSAP KDENK2DEPKEE14RW35B 050VCTREK2EA0E    010TF                    10990030    - FL230
SUSAP KDENK2DEPKEE14RW35B 060EPKEEK2EA0EE   010TF                    10990050
SUSAP KDENK2DEPKEE15      010EPKEEK2EA0E       IF                                            18000
SUSAP KDENK2DEPKEE15      020CLAMRK2EA0E    010TF                    10060720    + FL300
SUSAP KDENK2DEPKEE15      030WEEDSK3EA0EE   010TF                    10150160
SUSAP KDENK2DEPKEE16DUUCE 010WEEDSK3EA0E       IF                                            18000
SUSAP KDENK2DEPKEE16DUUCE 020DUUCEK3EA0EE   010TF                    13130308
SUSAP KDENK2DEPKEE16GATTR 010WEEDSK3EA0E       IF                                            18000
SUSAP KDENK2DEPKEE16GATTR 020GATTRK3EA0EE   010TF                    10210282
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDENK2GRW08    0120000825 N39523920W104394403-0500    +1613905354000052150IIFUI1
        SUSAP KDENK2GRW16L   0120001725 N39534933W104411250+0000    +1612505350000060150IILTT1
        SUSAP KDENK2GRW16R   0160001725 N39534487W104414590+0000    +1604005322000055200IIDQQ1
        SUSAP KDENK2GRW17L   0120001725 N39515383W104382870+0300    +1605905328000048150IIBXP1
        SUSAP KDENK2GRW17R   0120001725 N39514048W104393656+0500    +1621005378000060150IIACX1
        SUSAP KDENK2GRW25    0120002625 N39502637W104410217+0000    +1614205355000055150IIERP1
        SUSAP KDENK2GRW34L   0160003525 N39510679W104414772+0000    +1605605327000050200IIDXU3
        SUSAP KDENK2GRW34R   0120003525 N39515077W104411388+0000    +1613705354000059150IIOUF3
        SUSAP KDENK2GRW35L   0120003525 N39494193W104393798-0500    +1638105434000057150IIAQD3
        SUSAP KDENK2GRW35R   0120003525 N39495527W104383016-0300    +1618705370000059150IIDPP3
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW08		010		VI		FB		082.5()			
	RW08	KIDNG	020		CF		FB	1.0	105.6()	010.0	AB 10000	
	RW08	PIDLE	030		TF		FB	1.0	106.2()	012.3		
	RW08	APUUU	040		TF		FB	1.0	106.6()	010.2	AA 14000	
	RW08	VCTRE	050		TF		FB	1.0	109.9()	003.0	AB FL230	
	RW08	EPKEE	060		TF		FB	1.0	109.9()	005.0		
	RW16L		010		VI		FB		172.5()			
	RW16L	GISTT	020		CF		FB	1.0	117.9()	005.9	AA 07000	
	RW16L	MLHOS	030		TF		FB	1.0	097.1()	009.0	AB 10000	
	RW16L	SMTHR	040		TF		FB	1.0	098.3()	005.6	AB 12000	
	RW16L	SMPSN	050		TF		FB	1.0	092.0()	008.0		
	RW16L	APUUU	060		TF		FB	1.0	092.1()	007.4	AA 14000	
	RW16L	VCTRE	070		TF		FB	1.0	109.9()	003.0	AB FL230	
	RW16L	EPKEE	080		TF		FB	1.0	109.9()	005.0		
	RW16R		010		VI		FB		172.5()			
	RW16R	GISTT	020		CF		FB	1.0	117.9()	006.5	AA 07000	
	RW16R	MLHOS	030		TF		FB	1.0	097.1()	009.0	AB 10000	
	RW16R	SMTHR	040		TF		FB	1.0	098.3()	005.6	AB 12000	
	RW16R	SMPSN	050		TF		FB	1.0	092.0()	008.0		
	RW16R	APUUU	060		TF		FB	1.0	092.1()	007.4	AA 14000	
	RW16R	VCTRE	070		TF		FB	1.0	109.9()	003.0	AB FL230	
	RW16R	EPKEE	080		TF		FB	1.0	109.9()	005.0		
	RW17L		010		VI		FB		172.5()			
	RW17L	GISTT	020		CF		FB	1.0	127.5()	003.9	AA 07000	
	RW17L	MLHOS	030		TF		FB	1.0	097.1()	009.0	AB 10000	
	RW17L	SMTHR	040		TF		FB	1.0	098.3()	005.6	AB 12000	
	RW17L	SMPSN	050		TF		FB	1.0	092.0()	008.0		
	RW17L	APUUU	060		TF		FB	1.0	092.1()	007.4	AA 14000	
	RW17L	VCTRE	070		TF		FB	1.0	109.9()	003.0	AB FL230	
	RW17L	EPKEE	080		TF		FB	1.0	109.9()	005.0		
	RW17R		010		VI		FB		172.5()			
	RW17R	GISTT	020		CF		FB	1.0	118.0()	004.4	AA 07000	
	RW17R	MLHOS	030		TF		FB	1.0	097.1()	009.0	AB 10000	
	RW17R	SMTHR	040		TF		FB	1.0	098.3()	005.6	AB 12000	
	RW17R	SMPSN	050		TF		FB	1.0	092.0()	008.0		
	RW17R	APUUU	060		TF		FB	1.0	092.1()	007.4	AA 14000	
	RW17R	VCTRE	070		TF		FB	1.0	109.9()	003.0	AB FL230	
	RW17R	EPKEE	080		TF		FB	1.0	109.9()	005.0		
	RW25		010		VA		FB		262.5()		AA 05934	
	RW25		020		VM		FB		262.5()			
	RW25	EPKEE	030		DF		FB	1.0				
	RW34B		010		VA		FB		352.5()		AA 05934	

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

RW34B	KIDNG	020	DF	R	FB	1.0			AB 10000
RW34B	PIDLE	030	TF		FB	1.0	106.2()	012.3	
RW34B	APUUU	040	TF		FB	1.0	106.6()	010.2	AA 14000
RW34B	VCTRE	050	TF		FB	1.0	109.9()	003.0	AB FL230
RW34B	EPKEE	060	TF		FB	1.0	109.9()	005.0	
RW35B		010	VA		FB		352.5()		AA 05934
RW35B	KIDNG	020	DF	R	FB	1.0			AB 10000
RW35B	PIDLE	030	TF		FB	1.0	106.2()	012.3	
RW35B	APUUU	040	TF		FB	1.0	106.6()	010.2	AA 14000
RW35B	VCTRE	050	TF		FB	1.0	109.9()	003.0	AB FL230
RW35B	EPKEE	060	TF		FB	1.0	109.9()	005.0	
	EPKEE	010	IF		FB				
	CLAMR	020	TF		FB	1.0	100.6()	072.0	AA FL300
	WEEDS	030	TF		FB	1.0	101.5()	016.0	
DUUCE	WEEDS	010	IF		FB				
DUUCE	DUUCE	020	TF		FB	1.0	131.3()	030.8	
GATTR	WEEDS	010	IF		FB				
GATTR	GATTR	020	TF		FB	1.0	102.1()	028.2	

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
DEN	N394845.05	W1043938.66	N3948.751	W10439.644
APUUU	N393919.69	W1035708.68	N3939.328	W10357.145
CLAMR	N391205.95	W1022012.04	N3912.099	W10220.201
DUUCE	N384318.87	W1013508.90	N3843.315	W10135.148
EPKEE	N393534.21	W1034758.30	N3935.570	W10347.972
GATTR	N385658.11	W1012651.02	N3856.969	W10126.850
GISTT	N394557.50	W1043501.10	N3945.958	W10435.018
KIDNG	N394837.67	W1042339.58	N3948.628	W10423.660
MLHOS	N394336.54	W1042347.24	N3943.609	W10423.787
PIDLE	N394334.36	W1040907.55	N3943.573	W10409.126
SMPSN	N394038.43	W1040637.98	N3940.641	W10406.633
SMTHR	N394202.14	W1041649.26	N3942.036	W10416.821
VCTRE	N393755.42	W1035342.73	N3937.924	W10353.712
WEEDS	N390643.27	W1020046.77	N3906.721	W10200.780
RW08	N395239.20	W1043944.03	N3952.653	W10439.734
RW16L	N395349.33	W1044112.50	N3953.822	W10441.208
RW16R	N395344.87	W1044145.90	N3953.748	W10441.765
RW17L	N395153.83	W1043828.70	N3951.897	W10438.478
RW17R	N395140.48	W1043936.56	N3951.675	W10439.609
RW25	N395026.37	W1044102.17	N3950.440	W10441.036
RW34L	N395106.79	W1044147.72	N3951.113	W10441.795
RW34R	N395150.77	W1044113.88	N3951.846	W10441.231
RW35L	N394941.93	W1043937.98	N3949.699	W10439.633
RW35R	N394955.27	W1043830.16	N3949.921	W10438.503

RUNWAY DATA THRESHOLD

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

RWY	ELEVATION	TCH
RW08	05354	52
RW16L	05350	60
RW16R	05322	55
RW17L	05328	48
RW17R	05378	60
RW25	05355	55
RW34L	05327	50
RW34R	05354	59
RW35L	05434	57
RW35R	05370	59

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CLAMR K20    W     N39120595W102201204                    E0072     NAR           CLAMR
        SUSAEAENRT   DUUCE K30    W     N38431887W101350890                    E0068     NAR           DUUCE
        SUSAEAENRT   EPKEE K20    R     N39353421W103475830                    E0081     NAR           EPKEE
        SUSAEAENRT   GATTR K30    W     N38565811W101265102                    E0067     NAR           GATTR
        SUSAEAENRT   WEEDS K30    R     N39064327W102004677                    E0070     NAR           WEEDS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAPAK2AAPA     0     100YHN39341240W104505750E008005885         1800018000C    MNAR    CENTENNIAL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAPAK2DEPKEE14RW17B 010         0        VA                     1700        + 06400     18000
        SUSAP KAPAK2DEPKEE14RW17B 020         0        VM                     1700
        SUSAP KAPAK2DEPKEE14RW17B 030EPKEEK2EA0EE   010DF
        SUSAP KAPAK2DEPKEE14RW35B 010         0        VA                     3500        + 06400     18000
        SUSAP KAPAK2DEPKEE14RW35B 020         0        VM                     3500
        SUSAP KAPAK2DEPKEE14RW35B 030EPKEEK2EA0EE   010DF
        SUSAP KAPAK2DEPKEE15      010EPKEEK2EA0E       IF                                                18000
        SUSAP KAPAK2DEPKEE15      020CLAMRK2EA0E    010TF                     10060720    + FL300
        SUSAP KAPAK2DEPKEE15      030WEEDSK3EA0EE   010TF                     10150160
        SUSAP KAPAK2DEPKEE16DUUCE 010WEEDSK3EA0E       IF                                                18000
        SUSAP KAPAK2DEPKEE16DUUCE 020DUUCEK3EA0EE   010TF                     13130308
        SUSAP KAPAK2DEPKEE16GATTR 010WEEDSK3EA0E       IF                                                18000
        SUSAP KAPAK2DEPKEE16GATTR 020GATTRK3EA0EE   010TF                     10210282

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAPAK2GRW17L   0100011700 N39350292W104510530+0900    +1748505793000047100V
        SUSAP KAPAK2GRW17R   0070001700 N39344434W104511338+0900    +1751705804000041077V
        SUSAP KAPAK2GRW35L   0070003500 N39333523W104511019-0900    +1771605869000037077V
        SUSAP KAPAK2GRW35R   0100013500 N39332418W104510074-0900    +1776605885000053100IIAPA1
```

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW17B		010		VA		FB		170.0()		AA 06400	
	RW17B		020		VM		FB		170.0()			
	RW17B	EPKEE	030		DF		FB	1.0				
	RW35B		010		VA		FB		350.0()		AA 06400	
	RW35B		020		VM		FB		350.0()			
	RW35B	EPKEE	030		DF		FB	1.0				
		EPKEE	010		IF		FB					
		CLAMR	020		TF		FB	1.0	100.6()	072.0	AA FL300	
		WEEDS	030		TF		FB	1.0	101.5()	016.0		
	DUUCE	WEEDS	010		IF		FB					
	DUUCE	DUUCE	020		TF		FB	1.0	131.3()	030.8		
	GATTR	WEEDS	010		IF		FB					
	GATTR	GATTR	020		TF		FB	1.0	102.1()	028.2		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
CLAMR	N391205.95	W1022012.04	N3912.099	W10220.201
DUUCE	N384318.87	W1013508.90	N3843.315	W10135.148
EPKEE	N393534.21	W1034758.30	N3935.570	W10347.972
GATTR	N385658.11	W1012651.02	N3856.969	W10126.850
WEEDS	N390643.27	W1020046.77	N3906.721	W10200.780
RW17L	N393502.92	W1045105.30	N3935.049	W10451.088
RW17R	N393444.34	W1045113.38	N3934.739	W10451.223
RW35L	N393335.23	W1045110.19	N3933.587	W10451.170
RW35R	N393324.18	W1045100.74	N3933.403	W10451.012

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW17L	05793	47
RW17R	05804	41
RW35L	05869	37
RW35R	05885	53

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CLAMR K20    W     N39120595W102201204                      E0072     NAR           CLAMR
        SUSAEAENRT   DUUCE K30    W     N38431887W101350890                      E0068     NAR           DUUCE
        SUSAEAENRT   EPKEE K20    R     N39353421W103475830                      E0081     NAR           EPKEE
        SUSAEAENRT   GATTR K30    W     N38565811W101265102                      E0067     NAR           GATTR
        SUSAEAENRT   WEEDS K30    R     N39064327W102004677                      E0070     NAR           WEEDS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFTGK2AFTG     0     080YHN39470312W104321544E008005512         1800018000C    MNAR    FRONT RANGE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFTGK2DEPKEE14RW08  010         0        VA                       0832        + 06020     18000
        SUSAP KFTGK2DEPKEE14RW08  020         0        VM                       0832
        SUSAP KFTGK2DEPKEE14RW08  030EPKEEK2EA0EE   010DF
        SUSAP KFTGK2DEPKEE14RW17  010         0        VA                       1720        + 06020     18000
        SUSAP KFTGK2DEPKEE14RW17  020         0        VM                       1720
        SUSAP KFTGK2DEPKEE14RW17  030EPKEEK2EA0EE   010DF
        SUSAP KFTGK2DEPKEE14RW26  010         0        VA                       2632        + 06020     18000
        SUSAP KFTGK2DEPKEE14RW26  020         0        VM                       2632
        SUSAP KFTGK2DEPKEE14RW26  030EPKEEK2EA0EE   010DF
        SUSAP KFTGK2DEPKEE14RW35  010         0        VA                       3520        + 06020     18000
        SUSAP KFTGK2DEPKEE14RW35  020         0        VM                       3520
        SUSAP KFTGK2DEPKEE14RW35  030EPKEEK2EA0EE   010DF
        SUSAP KFTGK2DEPKEE15      010EPKEEK2EA0E       IF                                                   18000
        SUSAP KFTGK2DEPKEE15      020CLAMRK2EA0E   010TF                        10060720    + FL300
        SUSAP KFTGK2DEPKEE15      030WEEDSK3EA0EE  010TF                        10150160
        SUSAP KFTGK2DEPKEE16DUUCE 010WEEDSK3EA0E       IF                                                   18000
        SUSAP KFTGK2DEPKEE16DUUCE 020DUUCEK3EA0EE  010TF                        13130308
        SUSAP KFTGK2DEPKEE16GATTR 010WEEDSK3EA0E       IF                                                   18000
        SUSAP KFTGK2DEPKEE16GATTR 020GATTRK3EA0EE  010TF                        10210282

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFTGK2GRW08    0080000832 N39473842W104335487+0400    +1643905450000050100D
        SUSAP KFTGK2GRW17    0080001720 N39470815W104312724+0500    +1650805473000055100IIFZR1
        SUSAP KFTGK2GRW26    0080002632 N39473682W104321243-0400    +1654705485000045100IIFTG1
        SUSAP KFTGK2GRW35    0080003520 N39454910W104312722-0500    +1662705512000054100IIVWT1
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW08		010		VA		FB		083.2()		AA 06020	
	RW08		020		VM		FB		083.2()			
	RW08	EPKEE	030		DF		FB	1.0				
	RW17		010		VA		FB		172.0()		AA 06020	
	RW17		020		VM		FB		172.0()			
	RW17	EPKEE	030		DF		FB	1.0				
	RW26		010		VA		FB		263.2()		AA 06020	
	RW26		020		VM		FB		263.2()			
	RW26	EPKEE	030		DF		FB	1.0				
	RW35		010		VA		FB		352.0()		AA 06020	
	RW35		020		VM		FB		352.0()			
	RW35	EPKEE	030		DF		FB	1.0				
		EPKEE	010		IF		FB					
		CLAMR	020		TF		FB	1.0	100.6()	072.0	AA FL300	
		WEEDS	030		TF		FB	1.0	101.5()	016.0		
	DUUCE	WEEDS	010		IF		FB					
	DUUCE	DUUCE	020		TF		FB	1.0	131.3()	030.8		
	GATTR	WEEDS	010		IF		FB					
	GATTR	GATTR	020		TF		FB	1.0	102.1()	028.2		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
CLAMR	N391205.95	W1022012.04	N3912.099	W10220.201
DUUCE	N384318.87	W1013508.90	N3843.315	W10135.148
EPKEE	N393534.21	W1034758.30	N3935.570	W10347.972
GATTR	N385658.11	W1012651.02	N3856.969	W10126.850
WEEDS	N390643.27	W1020046.77	N3906.721	W10200.780
RW08	N394738.42	W1043354.87	N3947.640	W10433.915
RW17	N394708.15	W1043127.24	N3947.136	W10431.454
RW26	N394736.82	W1043212.43	N3947.614	W10432.207
RW35	N394549.10	W1043127.22	N3945.818	W10431.454

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW08	05450	50
RW17	05473	55
RW26	05485	45
RW35	05512	54

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CLAMR K20    W     N39120595W102201204                      E0073     NAR           CLAMR
        SUSAEAENRT   DUUCE K30    W     N38431887W101350890                      E0068     NAR           DUUCE
        SUSAEAENRT   EPKEE K20    R     N39353421W103475830                      E0081     NAR           EPKEE
        SUSAEAENRT   GATTR K30    W     N38565811W101265102                      E0067     NAR           GATTR
        SUSAEAENRT   WEEDS K30    R     N39064327W102004677                      E0071     NAR           WEEDS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBJCK2ABJC     0     090YHN39543170W105070190E011005673         1800018000C    MNAR    ROCKY MOUNTAIN METROPOLITAN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBJCK2DEPKEE14RW11B 010EPKEEK2EA0E       IF                                                    18000
        SUSAP KBJCK2DEPKEE14RW11B 020CLAMRK2EA0E    010TF                     10060720    + FL300
        SUSAP KBJCK2DEPKEE14RW11B 030WEEDSK3EA0EE   010TF                     10150160
        SUSAP KBJCK2DEPKEE14RW29B 010EPKEEK2EA0E       IF                                                    18000
        SUSAP KBJCK2DEPKEE14RW29B 020CLAMRK2EA0E    010TF                     10060720    + FL300
        SUSAP KBJCK2DEPKEE14RW29B 030WEEDSK3EA0EE   010TF                     10150160
        SUSAP KBJCK2DEPKEE16DUUCE 010WEEDSK3EA0E       IF                                                    18000
        SUSAP KBJCK2DEPKEE16DUUCE 020DUUCEK3EA0EE   010TF                     13130308
        SUSAP KBJCK2DEPKEE16GATTR 010WEEDSK3EA0E       IF                                                    18000
        SUSAP KBJCK2DEPKEE16GATTR 020GATTRK3EA0EE   010TF                     10210282

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBJCK2GRW11L   0090001133 N39545505W105074228-1000    +1708705660000041100V
        SUSAP KBJCK2GRW11R   0070021133 N39545110W105075355-1100    +1712605673000040075V
        SUSAP KBJCK2GRW29L   0070022933 N39541212W105063933+1100    +1688805595000041075R
        SUSAP KBJCK2GRW29R   0090002933 N39540495W105060691+1000    +1679805566000052100IIBJC1
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW11B	EPKEE	010		IF		FB					
	RW11B	CLAMR	020		TF		FB	1.0	100.6()	072.0	AA FL300	
	RW11B	WEEDS	030		TF		FB	1.0	101.5()	016.0		
	RW29B	EPKEE	010		IF		FB					
	RW29B	CLAMR	020		TF		FB	1.0	100.6()	072.0	AA FL300	
	RW29B	WEEDS	030		TF		FB	1.0	101.5()	016.0		
	DUUCE	WEEDS	010		IF		FB					
	DUUCE	DUUCE	020		TF		FB	1.0	131.3()	030.8		
	GATTR	WEEDS	010		IF		FB					
	GATTR	GATTR	020		TF		FB	1.0	102.1()	028.2		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
CLAMR	N391205.95	W1022012.04	N3912.099	W10220.201
DUUCE	N384318.87	W1013508.90	N3843.315	W10135.148
EPKEE	N393534.21	W1034758.30	N3935.570	W10347.972
GATTR	N385658.11	W1012651.02	N3856.969	W10126.850
WEEDS	N390643.27	W1020046.77	N3906.721	W10200.780
RW11L	N395455.05	W1050742.28	N3954.918	W10507.705
RW11R	N395451.10	W1050753.55	N3954.852	W10507.893
RW29L	N395412.12	W1050639.33	N3954.202	W10506.656
RW29R	N395404.95	W1050606.91	N3954.083	W10506.115

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW11L	05660	41
RW11R	05673	40
RW29L	05595	41
RW29R	05566	52

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CLAMR K20    W     N39120595W102201204                      E0073     NAR           CLAMR
        SUSAEAENRT   DUUCE K30    W     N38431887W101350890                      E0068     NAR           DUUCE
        SUSAEAENRT   EPKEE K20    R     N39353421W103475830                      E0081     NAR           EPKEE
        SUSAEAENRT   GATTR K30    W     N38565811W101265102                      E0067     NAR           GATTR
        SUSAEAENRT   WEEDS K30    R     N39064327W102004677                      E0071     NAR           WEEDS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFNLK2AFNL     0     085YHN40270658W105004081E009005016         1800018000C    MNAR    FORT COLLINS-LOVELAND MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFNLK2DEPKEE14RW15  010EPKEEK2EA0E       IF                                                  18000
        SUSAP KFNLK2DEPKEE14RW15  020CLAMRK2EA0E    010TF                     10060720    + FL300
        SUSAP KFNLK2DEPKEE14RW15  030WEEDSK3EA0EE   010TF                     10150160
        SUSAP KFNLK2DEPKEE14RW33  010EPKEEK2EA0E       IF                                                  18000
        SUSAP KFNLK2DEPKEE14RW33  020CLAMRK2EA0E    010TF                     10060720    + FL300
        SUSAP KFNLK2DEPKEE14RW33  030WEEDSK3EA0EE   010TF                     10150160
        SUSAP KFNLK2DEPKEE16DUUCE 010WEEDSK3EA0E       IF                                                  18000
        SUSAP KFNLK2DEPKEE16DUUCE 020DUUCEK3EA0EE   010TF                     13130308
        SUSAP KFNLK2DEPKEE16GATTR 010WEEDSK3EA0E       IF                                                  18000
        SUSAP KFNLK2DEPKEE16GATTR 020GATTRK3EA0EE   010TF                     10210282

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFNLK2GRW15    0085001514 N40274421W105010270+0500    +1500004973000050100R
        SUSAP KFNLK2GRW33    0085003314 N40262508W105002589-0500    +1512905016000051100IIFNL1
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
EPKEE RNAV	ONE	EPKEE1.WEEDS	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW15	EPKEE	010		IF		FB					
	RW15	CLAMR	020		TF		FB	1.0	100.6()	072.0	AA FL300	
	RW15	WEEDS	030		TF		FB	1.0	101.5()	016.0		
	RW33	EPKEE	010		IF		FB					
	RW33	CLAMR	020		TF		FB	1.0	100.6()	072.0	AA FL300	
	RW33	WEEDS	030		TF		FB	1.0	101.5()	016.0		
	DUUCE	WEEDS	010		IF		FB					
	DUUCE	DUUCE	020		TF		FB	1.0	131.3()	030.8		
	GATTR	WEEDS	010		IF		FB					
	GATTR	GATTR	020		TF		FB	1.0	102.1()	028.2		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
CLAMR	N391205.95	W1022012.04	N3912.099	W10220.201
DUUCE	N384318.87	W1013508.90	N3843.315	W10135.148
EPKEE	N393534.21	W1034758.30	N3935.570	W10347.972
GATTR	N385658.11	W1012651.02	N3856.969	W10126.850
WEEDS	N390643.27	W1020046.77	N3906.721	W10200.780
RW15	N402744.21	W1050102.70	N4027.737	W10501.045
RW33	N402625.08	W1050025.89	N4026.418	W10500.432

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW15	04973	50
RW33	05016	51

SURVEY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: APUUU **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 393919.69N/1035708.68W **TYPE: WP**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/11/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: CLAMR **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 391205.95N/1022012.04W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/11/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: DUUCE **STATE:** KS **COUNTRY:** US

LATITUDE/LONGITUDE: 384318.87N/1013508.90W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/11/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZDV
ATC FACILITY: den
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: GATTR **STATE:** KS **COUNTRY:** US

LATITUDE/LONGITUDE: 385658.11N/1012651.02W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 07/26/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: GISTT **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 394557.50N/1043501.10W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRYCC			KAPA	DENVER	CO (US)
DP	EEONS			KAPA	DENVER	CO (US)
DP	EMMYS			KAPA	DENVER	CO (US)
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EXTAN			KAPA	DENVER	CO (US)
DP	RIKKK			KAPA	DENVER	CO (US)
DP	YAMMI			KAPA	DENVER	CO (US)
DP	YOKES			KAPA	DENVER	CO (US)
DP	BRYCC			KBJC	DENVER	CO (US)
DP	EEONS			KBJC	DENVER	CO (US)
DP	EMMYS			KBJC	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EXTAN			KBJC	DENVER	CO (US)
DP	RIKKK			KBJC	DENVER	CO (US)
DP	YAMMI			KBJC	DENVER	CO (US)
DP	YOKES			KBJC	DENVER	CO (US)
DP	BRYCC			KDEN	DENVER	CO (US)
DP	EEONS			KDEN	DENVER	CO (US)
DP	EMMYS			KDEN	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EXTAN			KDEN	DENVER	CO (US)
DP	RIKKK			KDEN	DENVER	CO (US)
DP	YAMMI			KDEN	DENVER	CO (US)
DP	YOKES			KDEN	DENVER	CO (US)
DP	BRYCC			KFTG	DENVER	CO (US)
DP	EEONS			KFTG	DENVER	CO (US)
DP	EMMYS			KFTG	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EXTAN			KFTG	DENVER	CO (US)
DP	RIKKK			KFTG	DENVER	CO (US)
DP	YAMMI			KFTG	DENVER	CO (US)
DP	YOKES			KFTG	DENVER	CO (US)
DP	BRYCC			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	EEONS			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	EMMYS			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	EXTAN			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	RIKKK			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YAMMI			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YOKES			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/11/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: KIDNG **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 394837.67N/1042339.58W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRYCC			KAPA	DENVER	CO (US)
DP	EEONS			KAPA	DENVER	CO (US)
DP	EMMYS			KAPA	DENVER	CO (US)
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EXTAN			KAPA	DENVER	CO (US)
DP	RIKKK			KAPA	DENVER	CO (US)
DP	YAMMI			KAPA	DENVER	CO (US)
DP	YOKES			KAPA	DENVER	CO (US)
DP	BRYCC			KBJC	DENVER	CO (US)
DP	EEONS			KBJC	DENVER	CO (US)
DP	EMMYS			KBJC	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EXTAN			KBJC	DENVER	CO (US)
DP	RIKKK			KBJC	DENVER	CO (US)
DP	YAMMI			KBJC	DENVER	CO (US)
DP	YOKES			KBJC	DENVER	CO (US)
DP	BRYCC			KDEN	DENVER	CO (US)
DP	EEONS			KDEN	DENVER	CO (US)
DP	EMMYS			KDEN	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EXTAN			KDEN	DENVER	CO (US)
DP	RIKKK			KDEN	DENVER	CO (US)
DP	YAMMI			KDEN	DENVER	CO (US)
DP	YOKES			KDEN	DENVER	CO (US)
DP	BRYCC			KFTG	DENVER	CO (US)
DP	EEONS			KFTG	DENVER	CO (US)
DP	EMMYS			KFTG	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EXTAN			KFTG	DENVER	CO (US)
DP	RIKKK			KFTG	DENVER	CO (US)
DP	YAMMI			KFTG	DENVER	CO (US)
DP	YOKES			KFTG	DENVER	CO (US)
DP	BRYCC			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	EEONS			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	EMMYS			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	EXTAN			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	RIKKK			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YAMMI			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	YOKES			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/11/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: MLHOS **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 394336.54N/1042347.24W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/11/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: PIDLE **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 394334.36N/1040907.55W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/11/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: SMPSN **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 394038.43N/1040637.98W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/11/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: SMTHR **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 394202.14N/1041649.26W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/11/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: VCTRE **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 393755.42N/1035342.73W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EPKEE			KAPA	DENVER	CO (US)
DP	EPKEE			KBJC	DENVER	CO (US)
DP	EPKEE			KDEN	DENVER	CO (US)
DP	EPKEE			KFTG	DENVER	CO (US)
DP	EPKEE			KFNL	FORT COLLINS/LOVELAND	CO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/02/2012 **OFFICE:** AJV-354 **NAME:** CHARLES ERICKSON

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: EPKEE **STATE:** CO **COUNTRY:** US

LATITUDE/LONGITUDE: 393534.21N/1034758.30W **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 FAC NM	DIST FROM FAC FEET	MRA	MAA
1	DENVER	DEN	VOR/DME	H	100.00	108.00	42.00	42.00		23000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
DENVER (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

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

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATED FIX USE
FAC 1 MAG BRG CHANGED FROM 097.00 TO 100.00, FAC 1 MAGVAR CHANGED FROM 11E TO 8E
ADDED FAC 1 DIST FROM FAC

DEVELOPED BY: **DATE:** 02/24/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: WEEDS **STATE:** KS **COUNTRY:** US

LATITUDE/LONGITUDE: 390643.27N/1020046.77W **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 FAC NM	FEET	MRA	MAA
1	DENVER	DEN	VOR/DME	H	100.00	108.00	130.00	130.00		23000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
DENVER (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

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

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATED FIX USE
FAC 1 MAG BRG CHANGED FROM 097.00 TO 100.00, FAC 1 MAGVAR CHANGE FROM 11E TO 8E
FAC 1 ADDED DIST FROM FAC

DEVELOPED BY: **DATE:** 02/27/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZDV, ZKC
ATC FACILITY: DEN
OTHER:

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:
DENVER, CO (KDEN)
DENVER INTL;

EPKEE (RNAV) STANDARD INSTRUMENT DEPARTURE (SID)

2. Waiver Required and Applicable Standard:
8260.46, CHAPTER 2, PARA 2-1e(1)(b)
WHEN ATC REQUIRES PUBLICATION OF A MAXIMUM "AT OR BELOW" ALTITUDE TO SUPPORT AN OPERATIONAL REQUIREMENT, A MINIMUM "AT OR ABOVE" ALTITUDE MUST ALSO BE SPECIFIED.

3. Reason for Waiver *(Justification for nonstandard treatment)*:
ATC HAS REQUESTED NUMEROUS CROSS AT OR BELOW ALTITUDES AT VARIOUS WAY-POINTS ON THIS PROCEDURE. SOUTHWEST AND UNITED AIRLINES HAVE REQUESTED THAT THE ASSOCIATED MINIMUM "AT OR ABOVE" ALTITUDE THAT WOULD NORMALLY BE PUBLISHED AT THESE FIXES NOT BE INCLUDED ON THE PROCEDURE.

4. Equivalent Level of Safety Provided:
1. **NON-STANDARD MANDATORY CLIMB GRADIENTS HAVE BEEN APPLIED THAT ALLOW FOR A CONTINUOUS CLIMB THAT MEET BOTH CROSS AT OR ABOVE ALTITUDES AND CROSS AT OR BELOW ALTITUDES WHILE ENSURING OBSTACLE CLEARANCE.**
2. **FOR AIRCRAFT THAT CLIMB RAPIDLY AND MUST LEVEL OFF TEMPORARILY TO MEET THE CROSS AT/BELOW RESTRICTIONS (LOWEST OF WHICH IS 10000), THE CROSS AT/BELOW ALTITUDES ARE A MINIMUM OF 3500 FT ABOVE ALL OBSTACLES OVER ALL FIXES WITH AT/BELOW RESTRICTIONS.**
3. **THE HIGHEST MINIMUM VECTORING ALTITUDE IN THE TERPS EVALUATED DEPARTURE ROUTE WHERE THE AT OR BELOW CROSSING RESTRICTIONS ARE LOCATED IS 7500 FEET.**
4. **ENROUTE ROC FOR LEVEL-OFF ALTITUDE IS ASSURED FOR FAST CLIMBING AIRCRAFT FROM DER TO THE AT OR BELOW FIX.**

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:
N/A

6. Coordination With User Organizations *(Specify)*:

AJV-354_ _____

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
	AJV-35	MANAGER, TERMINAL PRODUCTS GROUP	GREG YAMAMOTO

8. CONTINUATION
Comments:

9. AFS ACTION		
		Approved
		Disapproved
		Not Required

Comments:

Date:	Routing Symbol:	Signature:

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:
DENVER, CO (KDEN)
DENVER INTL
EPKEE (RNAV), STANDARD INSTRUMENT DEPARTURE (SID)

2. Waiver Required and Applicable Standard: **8260.46 APPENDIX A, 2. d. DPs DESIGNED USING CONVENTIONAL , RNAV GUIDANCE MUST BE NAMED TO CORRESPOND WITH THE ENROUTE FIX/NAVAID NAME WHERE THE DP ENDS.**

3. Reason for Waiver *(Justification for nonstandard treatment)*:
ATC HAS REQUESTED TO DEVIATE FROM THE STANDARD NAMING CONVENTION CONTAINED IN FAAO 8260.46, DEPARTURE PROCEDURE (DP) PROGRAM, APPENDIX A, GUIDELINES FOR DESIGN OF GRAPHIC INSTRUMENT DEPARTURE PROCEDURES (DP). SIDS NAMED OTHER THAN AS DETAILED IN THE ORDER. DENVER TRACON HAS REQUESTED SID NAMES CORRESPONDING WITH WAYPOINT NAMES AT OUTER BOUNDARY OF DENVER TRACON/DENVER ARTCC AIRSPACE.

4. Equivalent Level of Safety Provided:
1. THE REQUESTED NAMING CONVENTION REINFORCES THE OPERATIONAL HABITS USED TODAY BY PILOTS AND CONTROLLERS IN THE DENVER TERMINAL AREA.
2. ATC HAS DETAILED IN ATTACHED MEMO EXTENSIVE JUSTIFICATION FOR REQUESTED DEVIATION FROM SID NAMING CONVENTION.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:
NA

6. Coordination With User Organizations *(Specify)*:
AJV-354_____

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
	AJV-35	**MANAGER, TERMINAL PRODUCTS GROUP**	**GREGORY YAMAMOTO**

8. CONTINUATION
Comments:

9. AFS ACTION		
		Approved
		Disapproved
		Not Required

Comments:		
Date:	Routing Symbol:	Signature:

Federal Aviation Administration

CONCURRENCES
ROUTING SYMBOL AJV-34 SBaker
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-354 Lead
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-354 DSilagyi
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-34 WTerrell
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Dez Silagyi, Manager, Terminal Procedures & Charting Services, Western Team, AJV-354

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

5/31/2012

DENVER, CO (KFTG)
ILS OR LOC RWY 17 AMDT 1
ILS OR LOC RWY 35 AMDT 1
TAKE-OFF MINIMUMS AMDT 3

DENVER, CO (KAPA)
TAKE-OFF MINIMUMS AMDT 5

DENVER, CO (KBJC)
TAKE-OFF MINIMUMS AMDT 5

DENVER, CO (KDEN)
ILS OR LOC RWY 35L AMDT 5
ILS OR LOC RWY 35R AMDT 3
RNAV (GPS) Y RWY 35L AMDT 2
RNAV (GPS) Y RWY 35R AMDT 2
RNAV (RNP) Z RWY 35L ORIG
RNAV (RNP) Z RWY 35R ORIG
ILS OR LOC RWY 25 AMDT 3
ILS OR LOC RWY 7 AMDT 3
ILS OR LOC RWY 8 AMDT 5
ILS RWY 26 AMDT 3
RNAV (GPS) Y RWY 25 AMDT 1
RNAV (GPS) Y RWY 26 AMDT 1
RNAV (GPS) Y RWY 7 AMDT 1
RNAV (GPS) Y RWY 8 AMDT 1
RNAV (RNP) Z RWY 25 ORIG
RNAV (RNP) Z RWY 26 ORIG
RNAV (RNP) Z RWY 7 ORIG
RNAV (RNP) Z RWY 8 ORIG
ILS OR LOC RWY 16R AMDT 1
ILS RWY 16L AMDT 3
RNAV (GPS) Y RWY 16L AMDT 1

RNAV (GPS) Y RWY 16R AMDT 1
RNAV (RNP) Z RWY 16L ORIG
RNAV (RNP) Z RWY 16R ORIG
ILS OR LOC RWY 17L AMDT 4
ILS RWY 17R AMDT 3
RNAV (GPS) Y RWY 17L AMDT 1
RNAV (GPS) Y RWY 17R AMDT 1
RNAV (RNP) Z RWY 17L ORIG
RNAV (RNP) Z RWY 17R ORIG
ILS OR LOC RWY 34L AMDT 2
ILS OR LOC RWY 34R AMDT 3
RNAV (GPS) Y RWY 34L AMDT 2
RNAV (GPS) Y RWY 34R AMDT 2
RNAV (RNP) Z RWY 34L ORIG
RNAV (RNP) Z RWY 34R ORIG

<u>7/26/2012 and Beyond</u>

STAR ANCHR (RNAV) ONE
STAR BOSSS (RNAV) ONE
STAR JAGGR (RNAV) ONE
STAR KIPPR (RNAV) ONE
STAR KOHOE (RNAV) ONE
STAR PURRL (RNAV) ONE
STAR WAHUU (RNAV) ONE
STAR ZPLYN (RNAV) ONE
SID EEONS (RNAV) ONE
SID EMMYS (RNAV) ONE
SID EPKEE (RNAV) ONE
SID EXTAN (RNAV) ONE
SID HOLTT (RNAV) ONE
SID WHEAT (RNAV) ONE

STAR CREDE (RNAV) ONE
STAR PITKN (RNAV) ONE
STAR GYPSM (RNAV) ONE
STAR CORTZ (RNAV) ONE
STAR RICCO (RNAV) ONE
STAR FRNCH (RNAV) ONE
STAR KAILE (RNAV) ONE
STAR LDORA (RNAV) ONE
STAR MOLTN (RNAV) ONE
STAR OURAY (RNAV) ONE
STAR PEEKK (RNAV) ONE
STAR TELLR (RNAV) ONE
STAR TSHRN (RNAV) ONE
STAR YAMPA (RNAV) ONE
SID YALES (RNAV) ONE
SID YAMMI (RNAV) ONE
SID YOBUB (RNAV) ONE
SID YOKES (RNAV) ONE
SID BAYLR (RNAV) ONE
SID BRYCC (RNAV) ONE
SID CONNR (RNAV) ONE
SID COORZ (RNAV) ONE
SID HURDL (RNAV) ONE
SID JUMPR (RNAV) ONE
SID RIKKK (RNAV) ONE
SID SOLAR (RNAV) ONE

SID SPAZZ (RNAV) ONE
SID STAKR (RNAV) ONE
SID ZIMMR (RNAV) ONE
SID VRONI (RNAV) ONE

Estimated Chart Date: **5/31/2011, 7/26/2011, 9/20/2011, 11/15/2012, 1/10/2013**

Please publish these changes in the National Flight Data Digest.

COLORADO

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Denver	Denver Intl	Airport	KDEN / DEN	Old 11° East / New 08° East	2015
Denver		ILS	ACX	Old 11° East / New 08° East	2015
Denver		ILS	LTT	Old 11° East / New 08° East	2015
Denver		ILS	DPP	Old 09° East / New 08° East	2015
Denver		ILS	AQD	Old 09° East / New 08° East	2015
Denver		ILS	OUF	Old 09° East / New 08° East	2015
Denver		ILS	JOY	Old 11° East / New 08° East	2015
Denver		ILS	ERP	Old 11° East / New 08° East	2015
Denver		ILS	DZG	Old 11° East / New 08° East	2015
Denver		ILS	DXU	Old 09° East / New 08° East	2015
Denver		ILS	BXP	Old 11° East / New 08° East	2015
Denver		ILS	DQQ	Old 11° East / New 08° East	2015
Denver		ILS	FUI	Old 11° East / New 08° East	2015
Denver	DENVER	VOR/ DME	DEN	Old 11° East / New 08° East	2015
Denver	MILE HIGH	VORTAC	DVV	Old 11° East / New 08° East	2015
Irondale,Denver		ASR	DEN	Old 11° East / New 08° East	2015
Platteville,Denver		ASR	GXY	Old 11° East / New 08° East	2015

If you have any questions please notify Dez Silagyi (405-954-9977).

Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 SID RW08 DUUCE 20120816_1353
Procedure Name:	EPKEE1
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/16/2012 1:53:01 PM
Input File:	EPKEE 5.1 RW08 DUUCE 20120816.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	Please Check Flyability Results
DME/DME	✔	
Radars	✔	
Comms	?	
TERPS		

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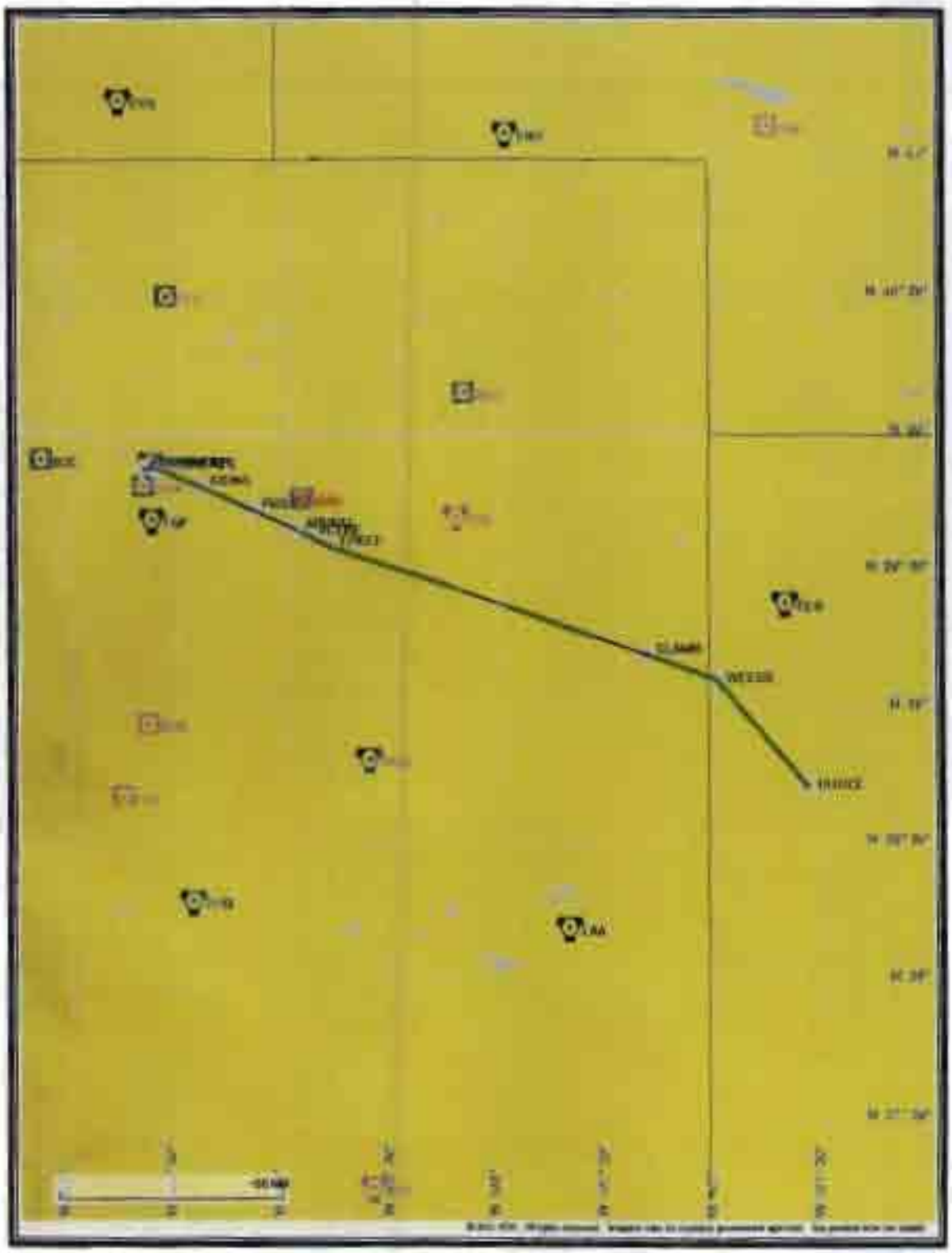


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW08(A...	WP	N 39° 52' 39.20" W 104° 39' 44.03"	5351.2	VNAV	0.0	Fly By	TF
RW26(D...	WP	N 39° 52' 38.08" W 104° 37' 10.15"	5326.1	VNAV	130.0	Fly Over	VI
GH08	WP	N 39° 52' 37.43" W 104° 35' 45.71"	5934.0	VNAV	145.0	Fly By	CF - 110.3°
KIDNG	WP	N 39° 48' 37.67" W 104° 23' 39.58"	8520.0	VNAV	180.0	Fly By	TF
PIDLE	WP	N 39° 43' 34.36" W 104° 9' 7.55"	11654.0	VNAV	210.0	Fly By	TF
APUUU	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly By	TF
VCTRE	WP	N 39° 37' 55.42" W 103° 53' 42.73"	14000.0	VNAV	210.0	Fly By	TF
EPKEE	WP	N 39° 35' 34.21" W 103° 47' 58.30"	14000.0	VNAV	210.0	Fly By	TF
CLAMR	WP	N 39° 12' 5.95" W 102° 20' 12.04"	14000.0	VNAV	210.0	Fly By	TF
WEEDS	WP	N 39° 6' 43.27" W 102° 0' 46.77"	14000.0	VNAV	210.0	Fly By	TF
DUUCE	WP	N 38° 43' 18.87" W 101° 35' 8.90"	14000.0	VNAV	210.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Required IAS at Fly-By WP KIDNG could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -10.90 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 6152 Ft

Total Number of DMEs Used: 12

Maximum DME Error: 0.780 NM

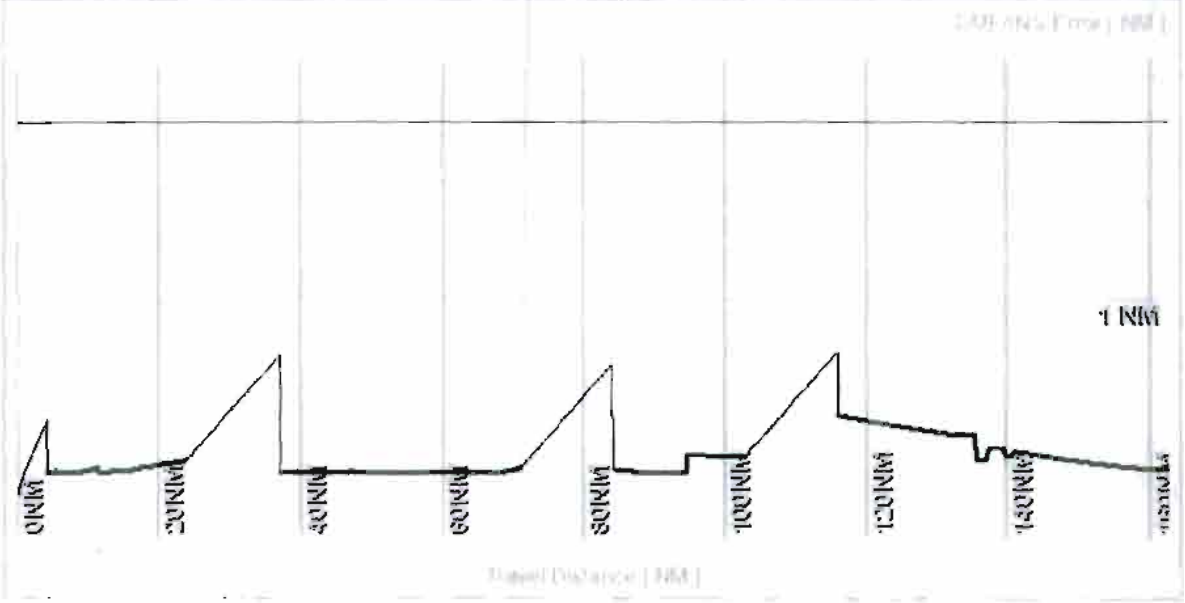
No Critical DMEs were found

Available DMEs: FQF, BJC, DEN, DVV, GLL, TXC, HGO, AKO, HCT, GLD, HLC, GCK

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BJC	N 39° 54' 46.87" W 105° 8' 20.47" E 11	H	Database	NO	0.780	Enabled	1.4 %	0.8 %
2	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	0.780	Enabled	8.7 %	5.1 %
3	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H + ESV	User	NO	1.588	Enabled	19.8 %	18.3 %
4	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H + ESV	User	NO	1.107	Enabled	9.3 %	7.9 %
5	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	User	NO	0.831	Enabled	8.5 %	7.1 %
6	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H + ESV	User	NO	1.079	Enabled	11.4 %	12.6 %
7	TXC	N 39° 41' 53.94" W 103° 12' 53.78" E 12	L	Database	NO	0.951	Enabled	20.2 %	22.3 %
8	AKO	N 40° 9' 19.99" W 103° 10' 46.96" E 13	H + ESV	User	NO	0.780	Enabled	9.2 %	10.1 %
9	HCT	N 40° 27' 14.62" W 100° 55' 24.86" E 11	H + ESV	User	NO	1.121	Enabled	16.9 %	18.7 %
10	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H + ESV	User	NO	1.440	Enabled	23.1 %	25.5 %
11	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H + ESV	User	NO	0.780	Enabled	15.0 %	16.6 %
12	GLD	N 39° 23' 16.30" W 101° 41' 32.30" E 12	H	Database	NO	0.780	Enabled	1.6 %	1.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
2.0						
2.9	BJC	FQF	DEN	DVV	GLL	
13.2	BJC	FQF	DEN	DVV	GLL	
25.5	TXC	FQF	DEN	DVV		
35.4	TXC	FQF	HGO	DVV	AKO	DEN
38.6	TXC	FQF	HGO	DVV	AKO	DEN
43.2	TXC	FQF	HGO	DVV	AKO	
94.6	TXC	GLD	HGO	HCT	AKO	
115.6	HCT	GLD	HLC			
130.9	HCT	GLD	HLC	GCK		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 52' 39.20" W 104° 39' 44.03"	N 39° 52' 13.28" W 104° 34' 28.74"	4.1
	VOR: BJC	Available from N 39° 52' 39.20" W 104° 39' 44.03" to N 39° 52' 13.28" W 104° 34' 28.74"	
	VOR: BVR	Available from N 39° 52' 39.20" W 104° 39' 44.03" to N 39° 52' 13.28" W 104° 34' 28.74"	
	VOR: DEN	Available from N 39° 52' 39.20" W 104° 39' 44.03" to N 39° 52' 13.28" W 104° 34' 28.74"	
	VOR: DVV	Available from N 39° 52' 39.20" W 104° 39' 44.03" to N 39° 52' 13.28" W 104° 34' 28.74"	
	VOR: FQF	Available from N 39° 52' 39.20" W 104° 39' 44.03" to N 39° 52' 13.28" W 104° 34' 28.74"	
	VOR: GLL	Available from N 39° 52' 39.20" W 104° 39' 44.03" to N 39° 52' 13.28" W 104° 34' 28.74"	
2	N 39° 44' 11.56" W 104° 10' 53.98"	N 39° 38' 43.28" W 103° 55' 40.01"	13.0
	VOR: BVR	Available from N 39° 44' 11.56" W 104° 10' 53.98" to N 39° 38' 43.28" W 103° 55' 40.01"	
	VOR: DEN	Available from N 39° 44' 11.56" W 104° 10' 53.98" to N 39° 38' 43.28" W 103° 55' 40.01"	
	VOR: DVV	Available from N 39° 44' 11.56" W 104° 10' 53.98" to N 39° 38' 43.28" W 103° 55' 40.01"	
	VOR: FQF	Available from N 39° 44' 11.56" W 104° 10' 53.98" to N 39° 38' 43.28" W 103° 55' 40.01"	
	VOR: TXC	Available from N 39° 41' 59.45" W 104° 4' 38.84" to N 39° 38' 43.28" W 103° 55' 40.01"	
3	N 39° 26' 44.49" W 103° 14' 21.09"	N 39° 22' 31.84" W 102° 58' 34.32"	12.9
	VOR: BVR	Available from N 39° 26' 44.49" W 103° 14' 21.09" to N 39° 25' 51.34" W 103° 11' 0.81"	
	VOR: TXC	Available from N 39° 26' 44.49" W 103° 14' 21.09" to N 39° 22' 31.84" W 102° 58' 34.32"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
4	N 39° 16' 24.55" W 102° 35' 56.15"	N 39° 12' 5.19" W 102° 20' 9.26"	13.0

VOR: TXC — Available from N 39° 16' 24.55" W 102° 35' 56.15" to N 39° 15' 48.77" W 102° 33' 44.92"

VOR: GLD — Available from N 39° 15' 20.92" W 102° 32' 2.88" to N 39° 12' 5.19" W 102° 20' 9.26"

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Used
		ESV: Bearing [True]: 167.0° to 175.0° Bearing [Mag]: 154.0° to 162.0°			Arc Distance: Out to 50.0 NM Altitude: 7000.0 to 23000.0 Ft.		
		ESV: Bearing [True]: 150.0° to 167.0° Bearing [Mag]: 137.0° to 154.0°			Arc Distance: Out to 52.0 NM Altitude: 8000.0 to 23000.0 Ft.		
2	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Used
		ESV: Bearing [True]: 105.0° to 120.0° Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 23000.0 Ft.		
3	AKO	N 40° 9' 19.99" W 103° 10' 46.96" E 13	H	4622.8	114.40	AKO	Used
		ESV: Bearing [True]: 155.0° to 230.0° Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 65.0 NM Altitude: 14000.0 to 30000.0 Ft.		
4	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H	2690.0	113.70	HLC	Used
		ESV: Bearing [True]: 239.0° to 274.0° Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM Altitude: 14000.0 to 31000.0 Ft.		
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Used
		ESV: Bearing [True]: 40.0° to 70.0° Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM Altitude: 14000.0 to 31000.0 Ft.		
		ESV: Bearing [True]: 338.0° to 358.0° Bearing [Mag]: 326.0° to 346.0°			Arc Distance: Out to 64.0 NM Altitude: 14000.0 to 31000.0 Ft.		
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Used
		Restriction: Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft		
		ESV: Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 90.0 NM Altitude: 14000.0 to 31000.0 Ft.		

DME/DME (Continued.)

Return To Summary

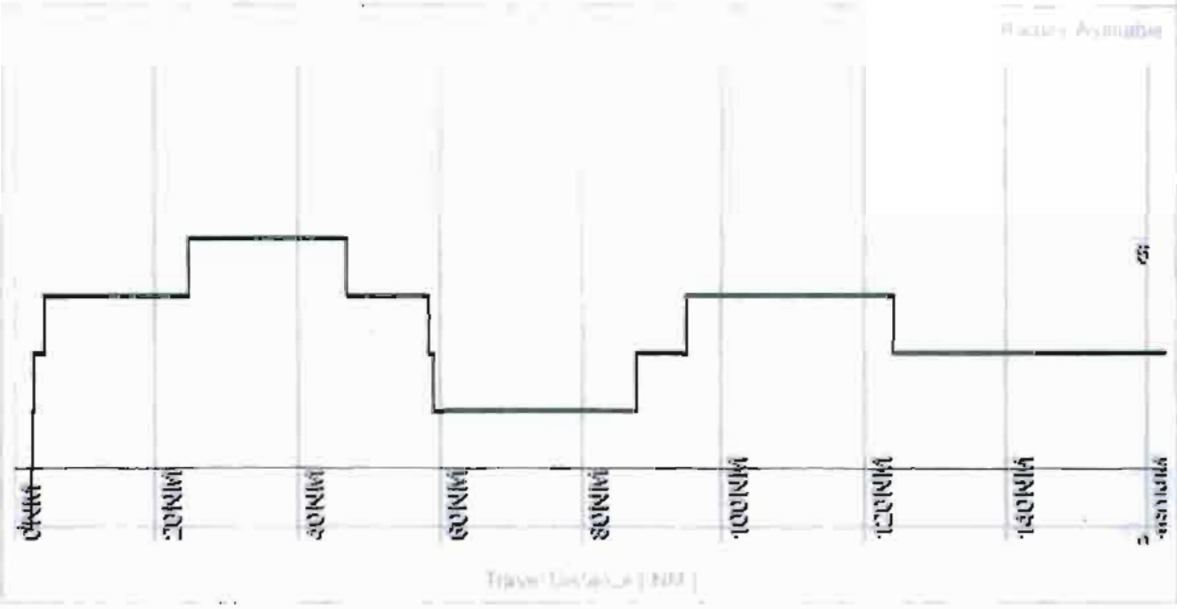
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
7	HCT	N 40° 27' 14.62" W 100° 55' 24.86" E 11	H	3010.0	117.70	HCT	Used
		ESV Bearing [True]: 207.0° to 233 0° Bearing [Mag]: 196.0° to 222 0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft.		
8	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	5440 0	117.90	DEN	Used

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 SID RW16L APUUU 20120827_1004
Procedure Name:	EPKEE1
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/27/2012 10:04:07 AM
Input File:	EPKEE 5.1 RW16L APUUU GISTT7000.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ Please Check Flyability Results
DME/DME	✔
Radars	✔
Comms	
TERPS	

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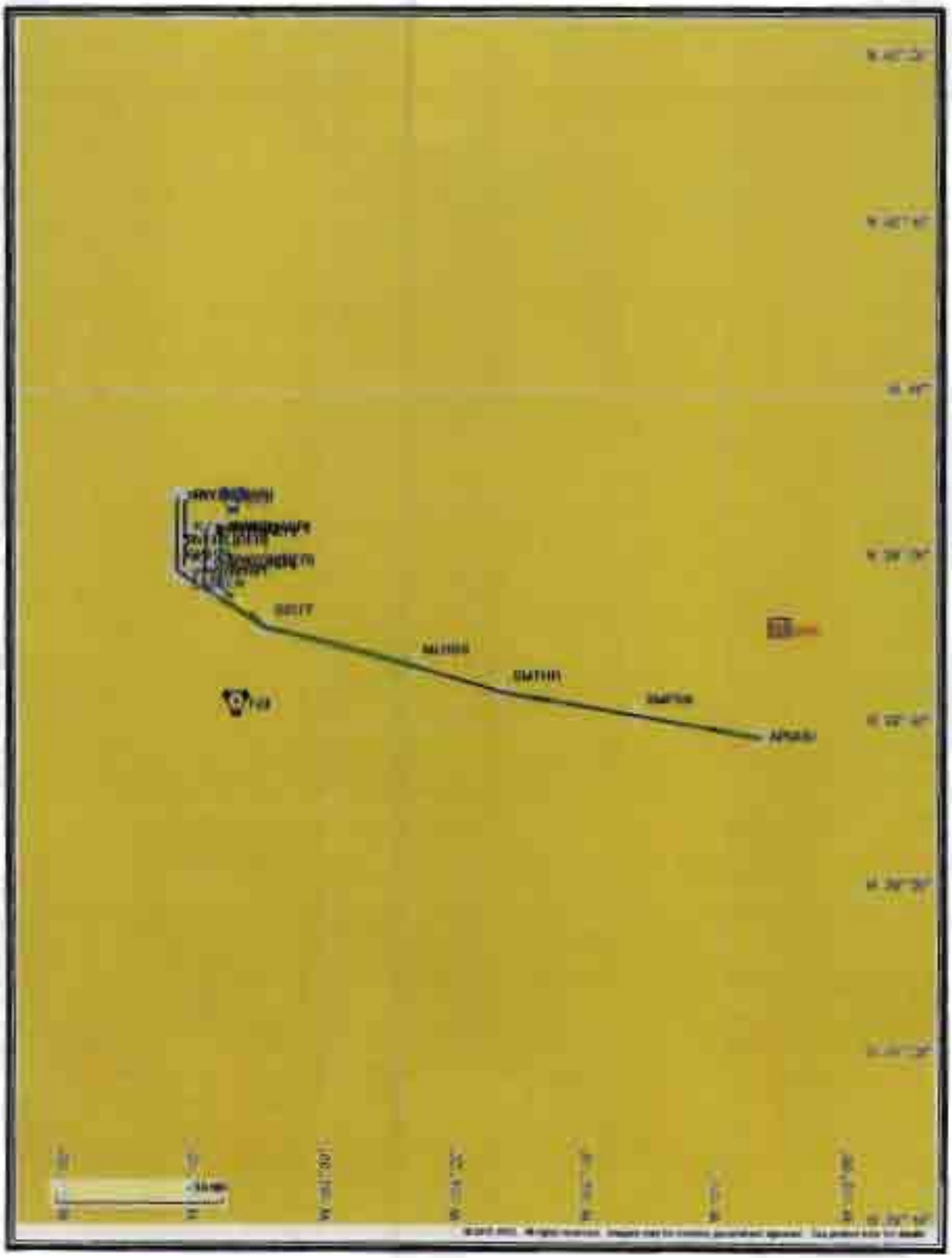


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW16L(...	WP	N 39° 53' 49.33" W 104° 41' 12.50"	5347.0	VNAV	0.0	Fly By	TF
RW34R(...	WP	N 39° 51' 50.78" W 104° 41' 13.88"	5385.6	VNAV	130.0	Fly Over	VI
GH16L	WP	N 39° 49' 5.41" W 104° 41' 15.78"	5934.0	VNAV	145.0	Fly By	CF - 123.0°
GISTT	WP	N 39° 45' 57.50" W 104° 35' 1.10"	7000.0	VNAV	180.0	Fly By	TF
MLHOS	WP	N 39° 43' 36.54" W 104° 23' 47.24"	9675.0	VNAV	180.0	Fly By	TF
SMTHR	WP	N 39° 42' 2.14" W 104° 18' 49.26"	11047.0	VNAV	180.0	Fly By	TF
SMPSN	WP	N 39° 40' 38.43" W 104° 6' 37.98"	13004.0	VNAV	210.0	Fly By	TF
APUUU	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly Over	TF

Climb Gradient: 245.0 Ft/NM up to 14000.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient: 245.0 Ft/NM up to 14000.0 Ft MSL
Ground Speeds:
Departure **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Aircraft ALTITUDE at Fly-By WP GISTT too high

Flight Track comes into contact with terrain. Minimum AGL along route was -43.00 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 6683 FL

Total Number of DMEs Used: 6

Maximum DME Error: 0.832 NM.

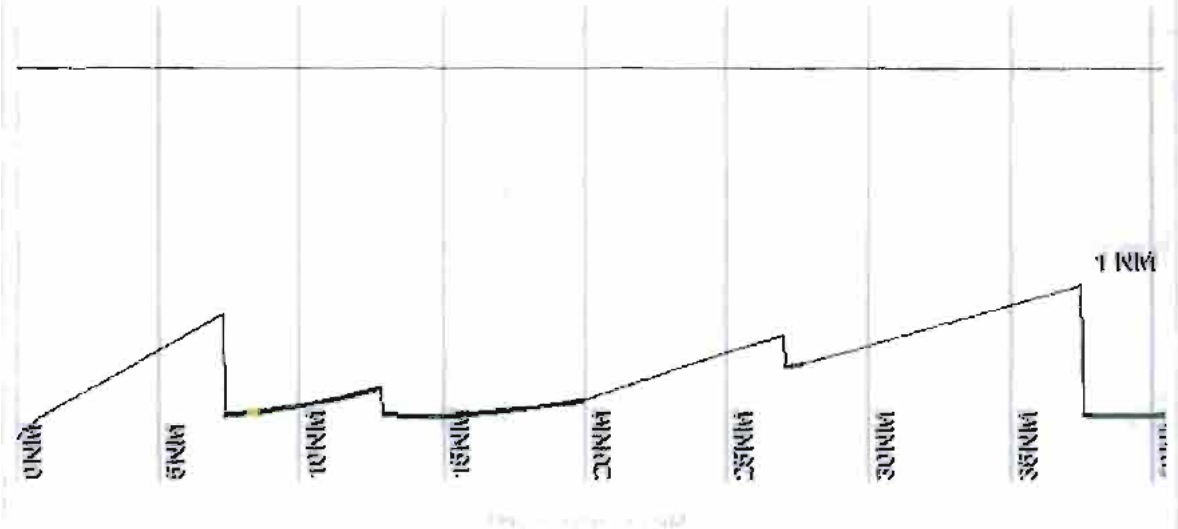
No Critical DMEs were found.

Available DMEs: DVV, FQF, BJC, DEN, TXC, HGO

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H + ESV	User	NO	1.134	Enabled	33.6 %	31.4 %
2	BJC	N 39° 54' 46.87" W 105° 8' 20.47" E 11	H	Database	NO	1.072	Enabled	18.5 %	13.4 %
3	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	1.318	Enabled	17.0 %	19.4 %
4	DEN	N 39° 48' 45.05" W 104° 39' 38.66" E 11	H	Database	NO	0.832	Enabled	0.2 %	0.2 %
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H + ESV	User	NO	0.929	Enabled	5.1 %	7.3 %
6	TXC	N 39° 41' 53.94" W 103° 12' 53.78" E 12	L	Database	NO	0.832	Enabled	5.1 %	7.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
2.0	DVV	FQF				
4.4	DVV	FQF	BJC	DEN		
10.3	DVV	FQF	BJC	DEN		
19.3	DVV	FQF	BJC	DEN		
24.8	DVV	FQF	DEN			
33.0	DVV	FQF	DEN	TXC	HGO	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 53' 49.33" W 104° 41' 12.50"	N 39° 47' 39.48" W 104° 38' 27.79"	7.3
	VOR: BJC	Available from N 39° 53' 49.33" W 104° 41' 12.50" to N 39° 47' 39.48" W 104° 38' 27.79"	
	VOR: BVR	Available from N 39° 53' 49.33" W 104° 41' 12.50" to N 39° 47' 39.48" W 104° 38' 27.79"	
	VOR: DEN	Available from N 39° 53' 49.33" W 104° 41' 12.50" to N 39° 47' 39.48" W 104° 38' 27.79"	
	VOR: DVV	Available from N 39° 53' 49.33" W 104° 41' 12.50" to N 39° 47' 39.48" W 104° 38' 27.79"	
	VOR: FQF	Available from N 39° 53' 49.33" W 104° 41' 12.50" to N 39° 47' 39.48" W 104° 38' 27.79"	
	VOR: GLL	Available from N 39° 53' 49.33" W 104° 41' 12.50" to N 39° 50' 41.80" W 104° 41' 14.67"	
2	N 39° 45' 21.51" W 104° 32' 8.87"	N 39° 45' 20.22" W 104° 32' 2.69"	0.1
	VOR: BJC	Available from N 39° 45' 21.51" W 104° 32' 8.87" to N 39° 45' 20.22" W 104° 32' 2.69"	
	VOR: BVR	Available from N 39° 45' 21.51" W 104° 32' 8.87" to N 39° 45' 20.22" W 104° 32' 2.69"	
	VOR: DEN	Available from N 39° 45' 21.51" W 104° 32' 8.87" to N 39° 45' 20.22" W 104° 32' 2.69"	
	VOR: DVV	Available from N 39° 45' 21.51" W 104° 32' 8.87" to N 39° 45' 20.22" W 104° 32' 2.69"	
	VOR: FQF	Available from N 39° 45' 21.51" W 104° 32' 8.87" to N 39° 45' 20.22" W 104° 32' 2.69"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 39° 43' 28.86" W 104° 23' 12.55"	N 39° 41' 41.77" W 104° 14' 21.53"	7.1
	VOR: BJC	Available from N 39° 43' 28.86" W 104° 23' 12.55" to N 39° 42' 31.71" W 104° 18' 59.65"	
	VOR: BVR	Available from N 39° 43' 28.86" W 104° 23' 12.55" to N 39° 41' 41.77" W 104° 14' 21.53"	
	VOR: DEN	Available from N 39° 43' 28.86" W 104° 23' 12.55" to N 39° 41' 41.77" W 104° 14' 21.53"	
	VOR: DVV	Available from N 39° 43' 28.86" W 104° 23' 12.55" to N 39° 41' 41.77" W 104° 14' 21.53"	
	VOR: FQF	Available from N 39° 43' 28.86" W 104° 23' 12.55" to N 39° 41' 41.77" W 104° 14' 21.53"	
4	N 39° 41' 34.82" W 104° 13' 30.49"	N 39° 39' 51.21" W 104° 0' 55.53"	6.9
	VOR: BVR	Available from N 39° 41' 34.82" W 104° 13' 30.49" to N 39° 39' 51.21" W 104° 0' 55.53"	
	VOR: DEN	Available from N 39° 41' 34.82" W 104° 13' 30.49" to N 39° 39' 51.21" W 104° 0' 55.53"	
	VOR: DVV	Available from N 39° 41' 34.82" W 104° 13' 30.49" to N 39° 39' 51.21" W 104° 0' 55.53"	
	VOR: FQF	Available from N 39° 41' 34.82" W 104° 13' 30.49" to N 39° 39' 51.21" W 104° 0' 55.53"	
	VOR: TXC	Available from N 39° 40' 22.23" W 104° 4' 39.90" to N 39° 39' 51.21" W 104° 0' 55.53"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Not Used

ESV: Bearing [True]: 167.0° to 175.0°
Bearing [Mag]: 154.0° to 162.0°
Arc Distance: Out to 50.0 NM
Altitude: 7000.0 to 23000.0 Ft.

ESV: Bearing [True]: 150.0° to 167.0°
Bearing [Mag]: 137.0° to 154.0°
Arc Distance: Out to 52.0 NM
Altitude: 8000.0 to 23000.0 Ft

DME/DME (Continued.)

Return To Summary

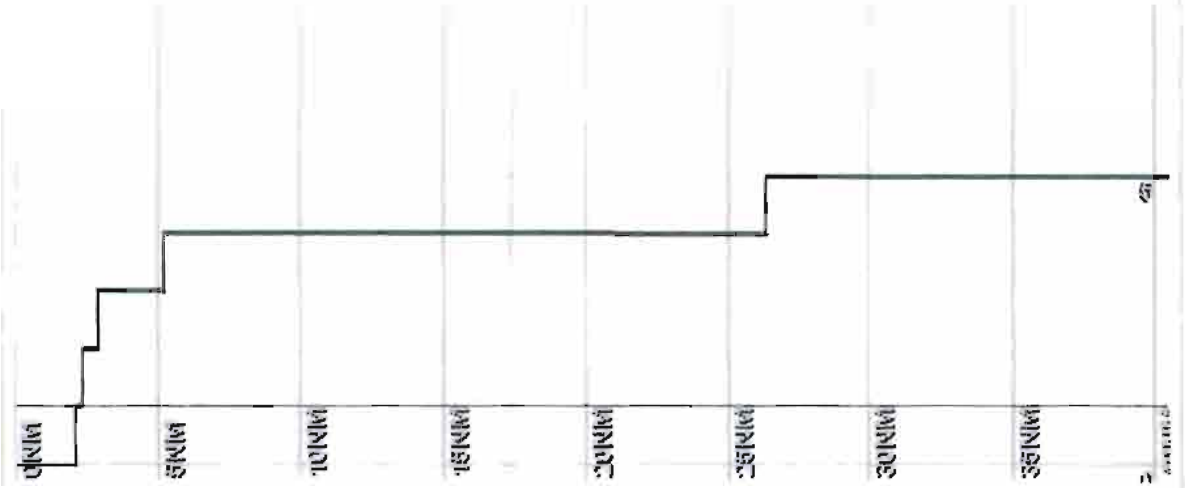
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
2	DVV	N 38° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Used
		ESV: Bearing [True]: 105.0° to 120.0° Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 23000.0 Ft.		
3	AKO	N 40° 9' 19.99" W 103° 10' 46.96" E 13	H	4822.8	114.40	AKO	Not Used
		ESV: Bearing [True]: 155.0° to 230.0° Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 65.0 NM Altitude: 14000.0 to 30000.0 Ft.		
4	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H	2690.0	113.70	HLC	Not Used
		ESV: Bearing [True]: 239.0° to 274.0° Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM Altitude: 14000.0 to 31000.0 Ft.		
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Used
		ESV: Bearing [True]: 40.0° to 70.0° Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM Altitude: 14000.0 to 31000.0 Ft.		
		ESV: Bearing [True]: 338.0° to 358.0° Bearing [Mag]: 326.0° to 346.0°			Arc Distance: Out to 64.0 NM Altitude: 14000.0 to 31000.0 Ft.		
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Not Used
		Restriction: Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft.		
		ESV: Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 90.0 NM Altitude: 14000.0 to 31000.0 Ft.		
7	HCT	N 40° 27' 14.62" W 100° 56' 24.86" E 11	H	3010.0	117.70	HCT	Not Used
		ESV: Bearing [True]: 207.0° to 233.0° Bearing [Mag]: 196.0° to 222.0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 SID RW16R APUUU 20120827_1005
Procedure Name:	EPKEE1
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/27/2012 10:05:12 AM
Input File:	EPKEE 5.1 RW16RAPUU GISTT7000.txt
Databases:	AVNIS Date: 02/07/2012 Obstacle Date: 06/26/2011 NFD Date: 09/30/2010 DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	
TERPS	

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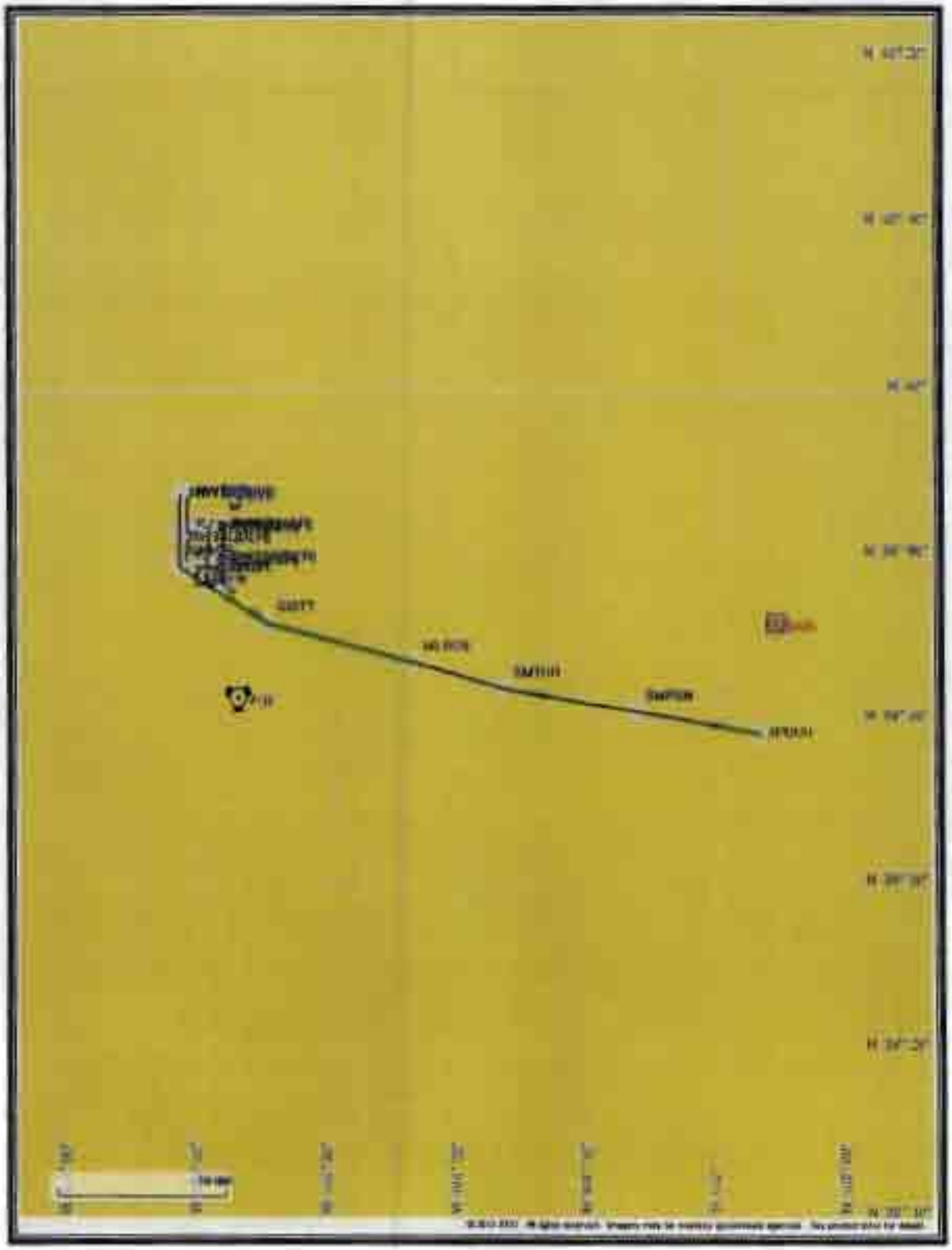


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW16R(	WP	N 39° 53' 44.87" W 104° 41' 45.90"	5321.7	VNAV	0.0	Fly By	TF
RW34L(	WP	N 39° 51' 6.79" W 104° 41' 47.72"	5361.8	VNAV	130.0	Fly Over	VI
GH16R	WP	N 39° 49' 22.06" W 104° 41' 48.93"	5934.0	VNAV	145.0	Fly By	CF - 123.0°
GISTT	WP	N 39° 45' 57.50" W 104° 35' 1.10"	7000.0	VNAV	180.0	Fly By	TF
MLHOS	WP	N 39° 43' 36.54" W 104° 23' 47.24"	9719.0	VNAV	180.0	Fly By	TF
SMTHR	WP	N 39° 42' 2.14" W 104° 16' 49.26"	11091.0	VNAV	180.0	Fly By	TF
SMPSN	WP	N 39° 40' 38.43" W 104° 6' 37.98"	13049.0	VNAV	210.0	Fly By	TF
APUUU	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly Over	TF

Climb Gradient:

Table:

450.0 Ft/NM up to **5934.0 Ft MSL**
245.0 Ft/NM up to **14000.0 Ft MSL**

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient:

Table
450.0 Ft/NM up to **5934.0 Ft MSL**
245.0 Ft/NM up to **14000.0 Ft MSL**

Ground Speeds:

Departure: **120.0 Kts** out to **10.0 NM**
Table
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Aircraft ALTITUDE at Fly-By WP GISTT too high

Flight Track comes into contact with terrain. Minimum AGL along route was -65.19 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 6695 Ft

Total Number of DMEs Used: 6

Maximum DME Error: 0.832 NM

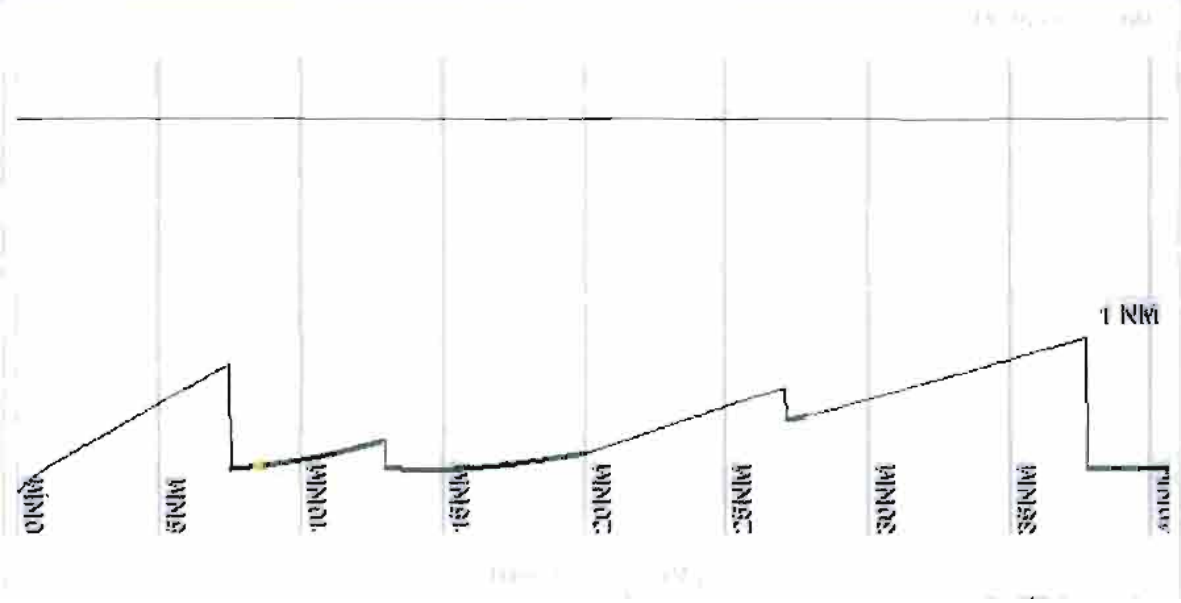
No Critical DMEs were found.

Available DMEs: DVV, FQF, BJC, DEN, TXC, HGO

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H + ESV	User	NO	1.135	Enabled	33.9 %	31.4 %
2	BJC	N 39° 54' 46.87" W 105° 8' 20.47" E 11	H	Database	NO	1.097	Enabled	18.5 %	13.3 %
3	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	1.327	Enabled	17.2 %	19.4 %
4	DEN	N 39° 48' 45.05" W 104° 39' 38.66" E 11	H	Database	NO	0.832	Enabled	0.2 %	0.2 %
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H + ESV	User	NO	0.930	Enabled	5.0 %	7.2 %
6	TXC	N 39° 41' 53.94" W 103° 12' 53.78" E 12	L	Database	NO	0.832	Enabled	5.0 %	7.2 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
2.7						
4.1	DVV	FQF	BJC	DEN		
10.4	DVV	FQF	BJC	DEN		
19.5	DVV	FQF	BJC	DEN		
24.9	DVV	FQF	DEN			
33.1	DVV	FQF	DEN	TXC	HGO	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 53' 44.87" W 104° 41' 45.90"	N 39° 47' 39.30" W 104° 38' 27.05"	7.5
	VOR: BJC	Available from N 39° 53' 44.87" W 104° 41' 45.90" to N 39° 47' 39.30" W 104° 38' 27.05"	
	VOR: BVR	Available from N 39° 53' 44.87" W 104° 41' 45.90" to N 39° 47' 39.30" W 104° 38' 27.05"	
	VOR: DEN	Available from N 39° 53' 44.87" W 104° 41' 45.90" to N 39° 47' 39.30" W 104° 38' 27.05"	
	VOR: DVV	Available from N 39° 53' 44.87" W 104° 41' 45.90" to N 39° 47' 39.30" W 104° 38' 27.05"	
	VOR: FQF	Available from N 39° 53' 44.87" W 104° 41' 45.90" to N 39° 47' 39.30" W 104° 38' 27.05"	
	VOR: GLL	Available from N 39° 53' 44.87" W 104° 41' 45.90" to N 39° 50' 45.38" W 104° 41' 47.98"	
2	N 39° 45' 21.33" W 104° 32' 8.01"	N 39° 45' 20.19" W 104° 32' 2.53"	0.1
	VOR: BJC	Available from N 39° 45' 21.33" W 104° 32' 8.01" to N 39° 45' 20.19" W 104° 32' 2.53"	
	VOR: BVR	Available from N 39° 45' 21.33" W 104° 32' 8.01" to N 39° 45' 20.19" W 104° 32' 2.53"	
	VOR: DEN	Available from N 39° 45' 21.33" W 104° 32' 8.01" to N 39° 45' 20.19" W 104° 32' 2.53"	
	VOR: DVV	Available from N 39° 45' 21.33" W 104° 32' 8.01" to N 39° 45' 20.19" W 104° 32' 2.53"	
	VOR: FQF	Available from N 39° 45' 21.33" W 104° 32' 8.01" to N 39° 45' 20.19" W 104° 32' 2.53"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 39° 43' 29.52" W 104° 23' 15.46"	N 39° 41' 42.07" W 104° 14' 24.53"	7.1
	VOR: BJC	Available from N 39° 43' 29.52" W 104° 23' 15.46" to N 39° 42' 31.43" W 104° 18' 58.42"	
	VOR: BVR	Available from N 39° 43' 29.52" W 104° 23' 15.46" to N 39° 41' 42.07" W 104° 14' 24.53"	
	VOR: DEN	Available from N 39° 43' 29.52" W 104° 23' 15.46" to N 39° 41' 42.07" W 104° 14' 24.53"	
	VOR: DVV	Available from N 39° 43' 29.52" W 104° 23' 15.46" to N 39° 41' 42.07" W 104° 14' 24.53"	
	VOR: FQF	Available from N 39° 43' 29.52" W 104° 23' 15.46" to N 39° 41' 42.07" W 104° 14' 24.53"	
4	N 39° 41' 34.44" W 104° 13' 28.39"	N 39° 39' 50.92" W 104° 0' 53.41"	9.9
	VOR: BVR	Available from N 39° 41' 34.44" W 104° 13' 28.39" to N 39° 39' 50.92" W 104° 0' 53.41"	
	VOR: DEN	Available from N 39° 41' 34.44" W 104° 13' 28.39" to N 39° 39' 50.92" W 104° 0' 53.41"	
	VOR: DVV	Available from N 39° 41' 34.44" W 104° 13' 28.39" to N 39° 39' 50.92" W 104° 0' 53.41"	
	VOR: FQF	Available from N 39° 41' 34.44" W 104° 13' 28.39" to N 39° 39' 50.92" W 104° 0' 53.41"	
	VOR: TXC	Available from N 39° 40' 21.95" W 104° 4' 37.77" to N 39° 39' 50.92" W 104° 0' 53.41"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Not Used

ESV	Bearing [True]: 167.0° to 175.0° Bearing [Mag]: 154.0° to 162.0°	Arc Distance: Out to 50.0 NM Altitude: 7000.0 to 23000.0 Ft	
ESV	Bearing [True]: 150.0° to 167.0° Bearing [Mag]: 137.0° to 154.0°	Arc Distance: Out to 52.0 NM Altitude: 8000.0 to 23000.0 Ft	

DME/DME (Continued.)

Return To Summary

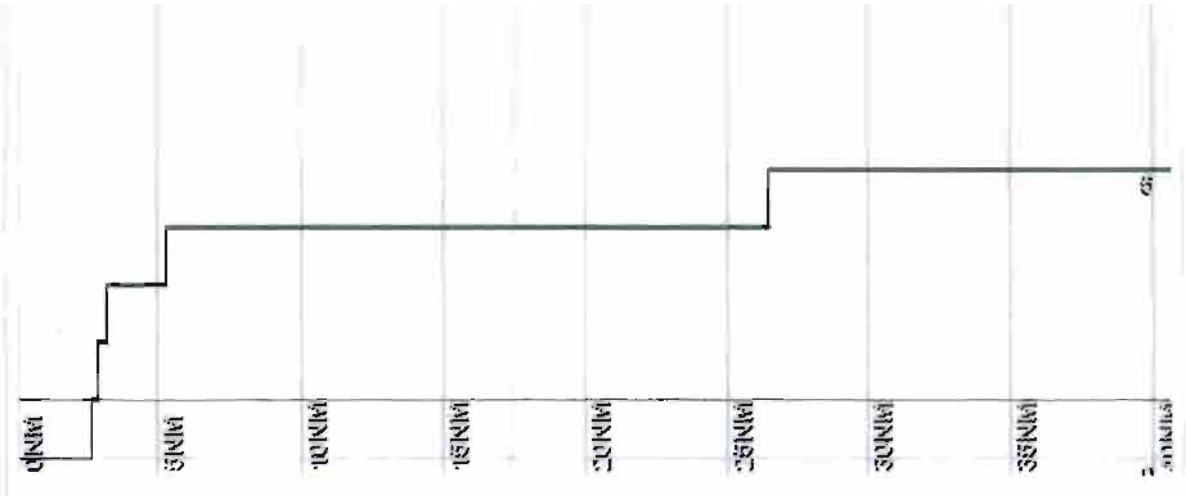
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
2	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Used
		ESV Bearing [True]: 105.0° to 120.0° Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 23000.0 Ft.		
3	AKO	N 40° 9' 19.99" W 103° 10' 46.98" E 13	H	4622.8	114.40	AKO	Not Used
		ESV Bearing [True]: 155.0° to 230.0° Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 85.0 NM Altitude: 14000.0 to 30000.0 Ft.		
4	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H	2690.0	113.70	HLC	Not Used
		ESV Bearing [True]: 239.0° to 274.0° Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM Altitude: 14000.0 to 31000.0 Ft.		
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Used
		ESV Bearing [True]: 40.0° to 70.0° Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM Altitude: 14000.0 to 31000.0 Ft.		
		ESV Bearing [True]: 338.0° to 358.0° Bearing [Mag]: 326.0° to 346.0°			Arc Distance: Out to 64.0 NM Altitude: 14000.0 to 31000.0 Ft.		
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Not Used
		Restriction: Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft.		
		ESV Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 90.0 NM Altitude: 14000.0 to 31000.0 Ft.		
7	HCT	N 40° 27' 14.62" W 100° 55' 24.86" E 11	H	3010.0	117.70	HCT	Not Used
		ESV Bearing [True]: 207.0° to 233.0° Bearing [Mag]: 196.0° to 222.0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 SID RW17L APUUU 20120827_1006
Procedure Name:	EPKEE1
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/27/2012 10:06:16 AM
Input File:	EPKEE 5.1 RW17L APUUU GISTT7000.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	
TERPS	

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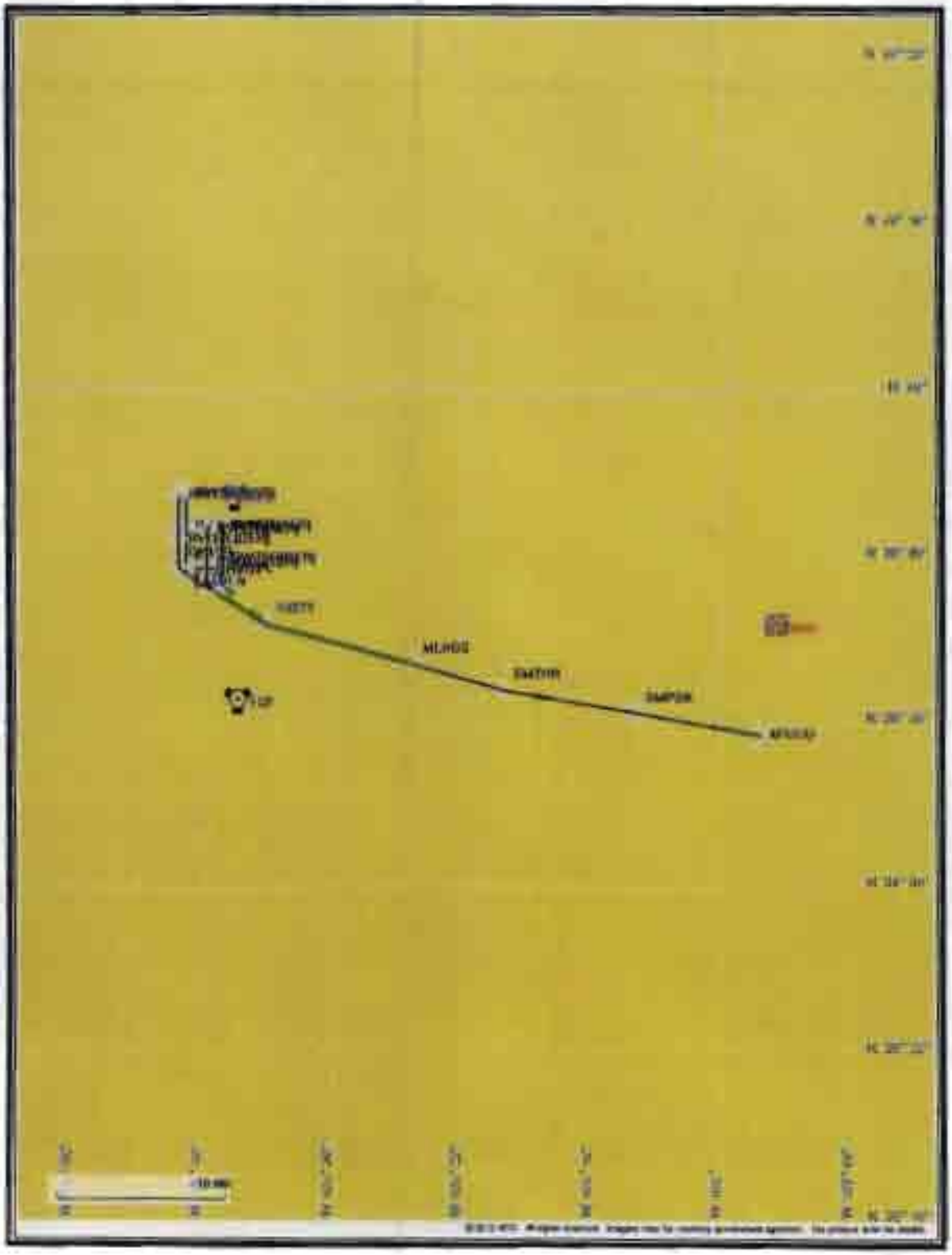

MLHOS
SMTHR
SMPSN
APUUU

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW17L(	WP	N 39° 51' 53.83" W 104° 38' 28.70"	5324.8	VNAV	0.0	Fly By	TF
RW35R(	WP	N 39° 49' 55.27" W 104° 38' 30.16"	5401.7	VNAV	130.0	Fly Over	VI
GH17L	WP	N 39° 48' 26.12" W 104° 38' 31.23"	5934.0	VNAV	145.0	Fly By	CF - 132.5°
GISTT	WP	N 39° 45' 57.50" W 104° 35' 1.10"	7000.0	VNAV	180.0	Fly By	TF
MLHOS	WP	N 39° 43' 36.54" W 104° 23' 47.24"	9526.0	VNAV	180.0	Fly By	TF
SMTHR	WP	N 39° 42' 2.14" W 104° 16' 49.26"	11094.0	VNAV	210.0	Fly By	TF
SMPSN	WP	N 39° 40' 38.43" W 104° 6' 37.98"	13332.0	VNAV	210.0	Fly By	TF
APUUU	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly Over	TF

Climb Gradient:

Table:

465.0 Ft/NM up to **5934.0 Ft MSL**
280.0 Ft/NM up to **14000.0 Ft MSL**

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient:

Table:

465.0 Ft/NM up to **5934.0 Ft MSL**
280.0 Ft/NM up to **14000.0 Ft MSL**

Ground Speeds:

Departure: **120.0 Kts** out to **10.0 NM**
Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -22.97 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 6109 Ft

Total Number of DMEs Used: 6

Maximum DME Error: 0.832 NM

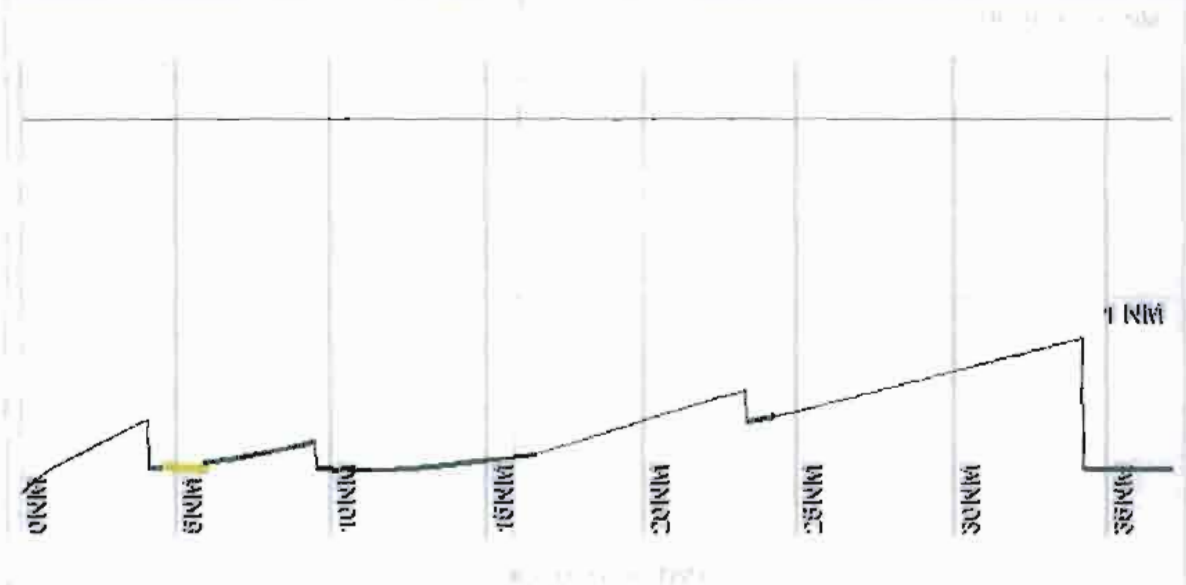
No Critical DMEs were found.

Available DMEs: FQF, DVV, BJC, DEN, TXC, HGO

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H + ESV	User	NO	1.135	Enabled	37.3 %	32.0 %
2	BJC	N 39° 54' 46.87" W 105° 8' 20.47" E 11	H	Database	NO	0.856	Enabled	19.7 %	14.3 %
3	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	1.402	Enabled	27.0 %	24.6 %
4	DEN	N 39° 48' 45.05" W 104° 39' 38.66" E 11	H	Database	NO	0.832	Enabled	0.2 %	0.2 %
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H + ESV	User	NO	0.930	Enabled	5.5 %	7.9 %
6	TXC	N 39° 41' 53.94" W 103° 12' 53.78" E 12	L	Database	NO	0.832	Enabled	5.5 %	7.9 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
2.0	FQF	DVV				
3.2	FQF	DVV	BJC	DEN		
6.9	FQF	DVV	BJC	DEN		
16.0	FQF	DVV	BJC	DEN		
21.4	FQF	DVV	DEN			
29.6	FQF	DVV	DEN	TXC	HGO	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 51' 53.83" W 104° 38' 28.70"	N 39° 47' 59.87" W 104° 37' 58.09"	4.1
	VOR: BJC	Available from N 39° 51' 53.83" W 104° 38' 28.70" to N 39° 47' 59.87" W 104° 37' 58.09"	
	VOR: BVR	Available from N 39° 51' 53.83" W 104° 38' 28.70" to N 39° 47' 59.87" W 104° 37' 58.09"	
	VOR: DEN	Available from N 39° 51' 53.83" W 104° 38' 28.70" to N 39° 47' 59.87" W 104° 37' 58.09"	
	VOR: DVV	Available from N 39° 51' 53.83" W 104° 38' 28.70" to N 39° 47' 59.87" W 104° 37' 58.09"	
	VOR: FQF	Available from N 39° 51' 53.83" W 104° 38' 28.70" to N 39° 47' 59.87" W 104° 37' 58.09"	
	VOR: GLL	Available from N 39° 51' 53.83" W 104° 38' 28.70" to N 39° 50' 26.34" W 104° 38' 29.78"	
2	N 39° 45' 21.63" W 104° 32' 9.27"	N 39° 45' 20.06" W 104° 32' 1.76"	0.1
	VOR: BJC	Available from N 39° 45' 21.63" W 104° 32' 9.27" to N 39° 45' 20.06" W 104° 32' 1.76"	
	VOR: BVR	Available from N 39° 45' 21.63" W 104° 32' 9.27" to N 39° 45' 20.06" W 104° 32' 1.76"	
	VOR: DEN	Available from N 39° 45' 21.63" W 104° 32' 9.27" to N 39° 45' 20.06" W 104° 32' 1.76"	
	VOR: DVV	Available from N 39° 45' 21.63" W 104° 32' 9.27" to N 39° 45' 20.06" W 104° 32' 1.76"	
	VOR: FQF	Available from N 39° 45' 21.63" W 104° 32' 9.27" to N 39° 45' 20.06" W 104° 32' 1.76"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length (NM)
3	N 39° 43' 29.63" W 104° 23' 15.94"	N 39° 41' 44.88" W 104° 14' 45.75"	6.8
	VOR: BJC	Available from N 39° 43' 29.63" W 104° 23' 15.94" to N 39° 42' 31.53" W 104° 18' 58.89"	
	VOR: BVR	Available from N 39° 43' 29.63" W 104° 23' 15.94" to N 39° 41' 44.88" W 104° 14' 45.75"	
	VOR: DEN	Available from N 39° 43' 29.63" W 104° 23' 15.94" to N 39° 41' 44.88" W 104° 14' 45.75"	
	VOR: DVV	Available from N 39° 43' 29.63" W 104° 23' 15.94" to N 39° 41' 44.88" W 104° 14' 45.75"	
	VOR: FQF	Available from N 39° 43' 29.63" W 104° 23' 15.94" to N 39° 41' 44.88" W 104° 14' 45.75"	
4	N 39° 41' 34.48" W 104° 13' 29.19"	N 39° 39' 51.03" W 104° 0' 54.20"	9.9
	VOR: BVR	Available from N 39° 41' 34.48" W 104° 13' 29.19" to N 39° 39' 51.03" W 104° 0' 54.20"	
	VOR: DEN	Available from N 39° 41' 34.48" W 104° 13' 29.19" to N 39° 39' 51.03" W 104° 0' 54.20"	
	VOR: DVV	Available from N 39° 41' 34.48" W 104° 13' 29.19" to N 39° 39' 51.03" W 104° 0' 54.20"	
	VOR: FQF	Available from N 39° 41' 34.48" W 104° 13' 29.19" to N 39° 39' 51.03" W 104° 0' 54.20"	
	VOR: TXC	Available from N 39° 40' 22.06" W 104° 4' 38.56" to N 39° 39' 51.03" W 104° 0' 54.20"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Not Used
	ESV	Bearing [True]: 167.0° to 175.0° Bearing [Mag]: 154.0° to 162.0°			Arc Distance: Out to 50.0 NM Altitude: 7000.0 to 23000.0 Ft		
	ESV	Bearing [True]: 150.0° to 167.0° Bearing [Mag]: 137.0° to 154.0°			Arc Distance: Out to 62.0 NM Altitude: 8000.0 to 23000.0 Ft		

DME/DME (Continued.)

Return To Summary

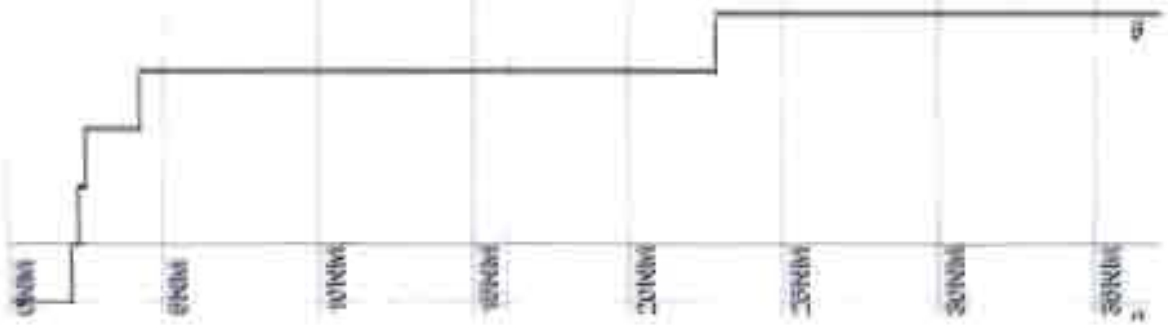
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
2	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Used
		ESV: Bearing [True]: 105.0° to 120.0° Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 23000.0 Ft.		
3	AKO	N 40° 9' 19.99" W 103° 10' 46.96" E 13	H	4622.8	114.40	AKO	Not Used
		ESV: Bearing [True]: 155.0° to 230.0° Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 65.0 NM Altitude: 14000.0 to 30000.0 Ft.		
4	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H	2690.0	113.70	HLC	Not Used
		ESV: Bearing [True]: 239.0° to 274.0° Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM Altitude: 14000.0 to 31000.0 Ft.		
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Used
		ESV: Bearing [True]: 40.0° to 70.0° Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM Altitude: 14000.0 to 31000.0 Ft.		
		ESV: Bearing [True]: 338.0° to 358.0° Bearing [Mag]: 326.0° to 346.0°			Arc Distance: Out to 64.0 NM Altitude: 14000.0 to 31000.0 Ft.		
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Not Used
		Restriction: Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft.		
		ESV: Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 90.0 NM Altitude: 14000.0 to 31000.0 Ft.		
7	HCT	N 40° 27' 14.52" W 100° 55' 24.86" E 11	H	3010.0	117.70	HCT	Not Used
		ESV: Bearing [True]: 207.0° to 233.0° Bearing [Mag]: 196.0° to 222.0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 SID RW17R APUUU 20120827_1007
Procedure Name:	EPKEE1
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/27/2012 10:07:20 AM
Input File:	EPKEE 5.1 RW17R APUUU GISTT7000.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	**Please Check Flyability Results**
DME/DME	✔	
Radars	✔	
Comms		
TERPS		

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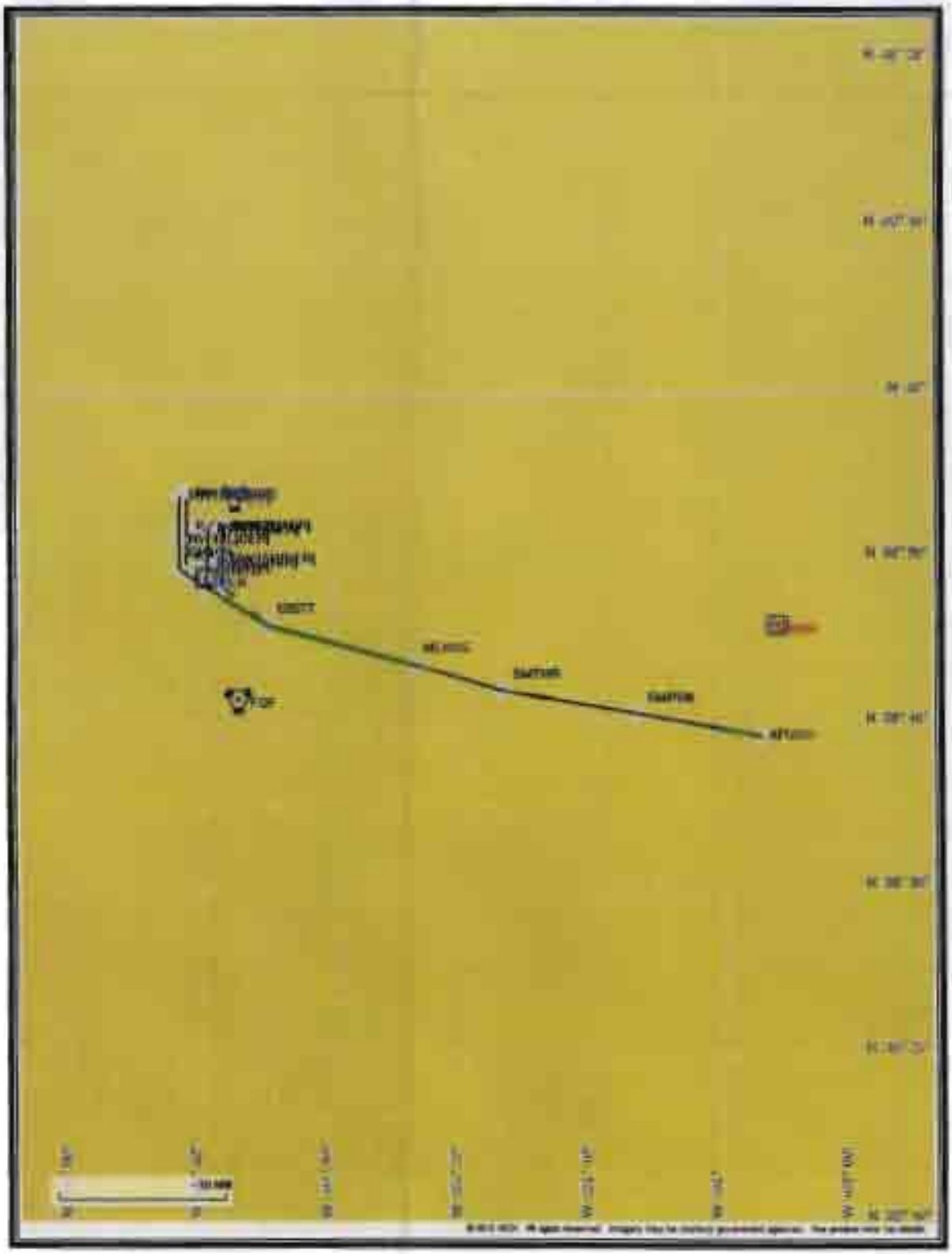


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW17R(. .	WP	N 39° 51' 40.48" W 104° 39' 36.56"	5374.4	VNAV	0.0	Fly By	TF
RW35L(...	WP	N 39° 49' 41.93" W 104° 39' 37.99"	5465.5	VNAV	130.0	Fly Over	VI
GH17R	WP	N 39° 48' 16.83" W 104° 39' 39.00"	5934.0	VNAV	145.0	Fly By	CF - 123.0°
GISTT	WP	N 39° 45' 57.50" W 104° 35' 1.10"	7000.0	VNAV	180.0	Fly By	TF
MLHOS	WP	N 39° 43' 36.54" W 104° 23' 47.24"	9281.0	VNAV	180.0	Fly By	TF
SMTHR	WP	N 39° 42' 2.14" W 104° 16' 49.26"	10681.0	VNAV	180.0	Fly By	TF
SMPSN	WP	N 39° 40' 38.43" W 104° 6' 37.98"	12679.0	VNAV	210.0	Fly By	TF
APUUU	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly Over	TF

Climb Gradient:

Table:

465.0 Ft/NM up to **5934.0 Ft MSL**

250.0 Ft/NM up to **14000.0 Ft MSL**

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient:

Table

465.0 Ft/NM up to **5934.0 Ft MSL**
250.0 Ft/NM up to **14000.0 Ft MSL**

Ground Speeds:

Departure: **120.0 Kts** out to **10.0 NM**
Table

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -45.55 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
  Initial Drift: 0.165 NM
  INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 5934 Ft

Total Number of DMEs Used: 6

Maximum DME Error: 1.014 NM

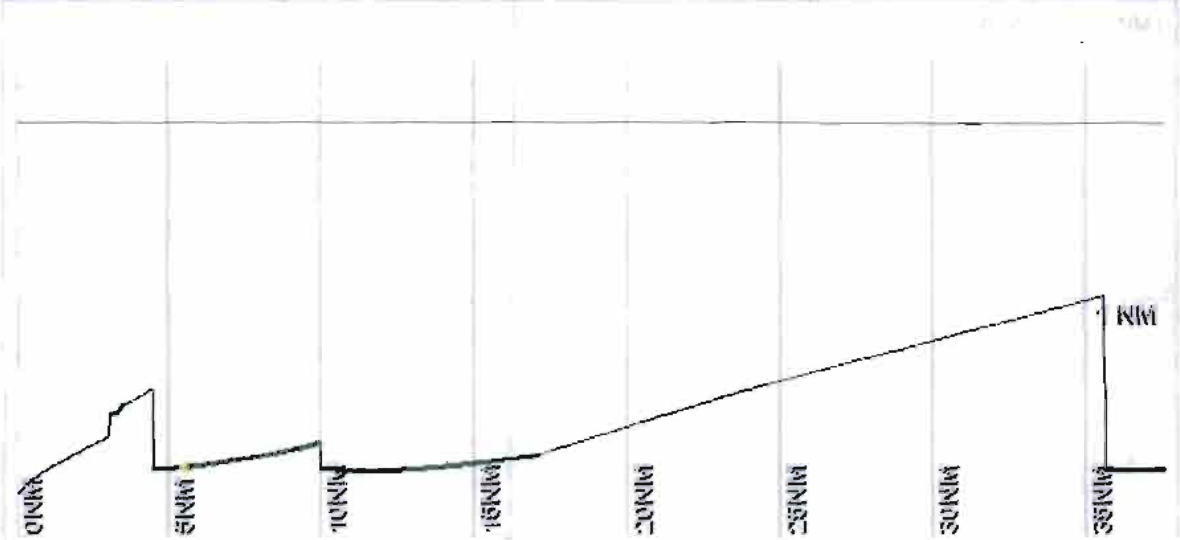
No Critical DMEs were found.

Available DMEs: FQF, DVV, BJC, DEN, TXC, HGO

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H + ESV	User	NO	1.175	Enabled	40.1 %	33.4 %
2	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	1.431	Enabled	22.2 %	20.4 %
3	BJC	N 39° 54' 46.87" W 105° 8' 20.47" E 11	H	Database	NO	1.014	Enabled	19.6 %	14.3 %
4	DEN	N 39° 48' 45.05" W 104° 39' 38.88" E 11	H	Database	NO	1.014	Enabled	0.2 %	0.2 %
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H + ESV	User	NO	1.081	Enabled	3.7 %	5.3 %
6	TXC	N 39° 41' 53.94" W 103° 12' 53.78" E 12	L	Database	NO	1.014	Enabled	3.7 %	5.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
2.0	FQF					
3.1	FQF	DVV	BJC	DEN		
7.4	FQF	DVV	BJC	DEN		
16.5	FQF	DVV	BJC	DEN		
21.9	FQF	DVV	DEN			
30.1	FQF	DVV	DEN	TXC	HGO	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 51' 40.48" W 104° 39' 36.56"	N 39° 48' 36.90" W 104° 39' 38.76"	3.1
	VOR: BJC	Available from N 39° 51' 40.48" W 104° 39' 36.56" to N 39° 48' 36.90" W 104° 39' 38.76"	
	VOR: BVR	Available from N 39° 51' 40.48" W 104° 39' 36.56" to N 39° 48' 36.90" W 104° 39' 38.76"	
	VOR: DEN	Available from N 39° 51' 40.48" W 104° 39' 36.56" to N 39° 48' 36.90" W 104° 39' 38.76"	
	VOR: DVV	Available from N 39° 51' 40.48" W 104° 39' 36.56" to N 39° 48' 36.90" W 104° 39' 38.76"	
	VOR: FQF	Available from N 39° 51' 40.48" W 104° 39' 36.56" to N 39° 48' 36.90" W 104° 39' 38.76"	
	VOR: GLL	Available from N 39° 51' 40.48" W 104° 39' 36.56" to N 39° 50' 32.37" W 104° 39' 37.38"	
2	N 39° 48' 9.14" W 104° 39' 27.44"	N 39° 47' 38.30" W 104° 38' 26.87"	0.9
	VOR: BJC	Available from N 39° 48' 9.14" W 104° 39' 27.44" to N 39° 47' 38.30" W 104° 38' 26.87"	
	VOR: BVR	Available from N 39° 48' 9.14" W 104° 39' 27.44" to N 39° 47' 38.30" W 104° 38' 26.87"	
	VOR: DEN	Available from N 39° 48' 9.14" W 104° 39' 27.44" to N 39° 47' 38.30" W 104° 38' 26.87"	
	VOR: DVV	Available from N 39° 48' 9.14" W 104° 39' 27.44" to N 39° 47' 38.30" W 104° 38' 26.87"	
	VOR: FQF	Available from N 39° 48' 9.14" W 104° 39' 27.44" to N 39° 47' 38.30" W 104° 38' 26.87"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 39° 45' 21.84" W 104° 32' 10.51"	N 39° 45' 20.28" W 104° 32' 3.00"	0.1
	VOR: BJC	Available from N 39° 45' 21.84" W 104° 32' 10.51" to N 39° 45' 20.28" W 104° 32' 3.00"	
	VOR: BVR	Available from N 39° 45' 21.84" W 104° 32' 10.51" to N 39° 45' 20.28" W 104° 32' 3.00"	
	VOR: DEN	Available from N 39° 45' 21.84" W 104° 32' 10.51" to N 39° 45' 20.28" W 104° 32' 3.00"	
	VOR: DVV	Available from N 39° 45' 21.84" W 104° 32' 10.51" to N 39° 45' 20.28" W 104° 32' 3.00"	
	VOR: FQF	Available from N 39° 45' 21.84" W 104° 32' 10.51" to N 39° 45' 20.28" W 104° 32' 3.00"	
4	N 39° 43' 29.02" W 104° 23' 13.26"	N 39° 39' 41.17" W 103° 59' 43.11"	18.8
	VOR: BJC	Available from N 39° 43' 29.02" W 104° 23' 13.26" to N 39° 42' 30.93" W 104° 18' 56.21"	
	VOR: BVR	Available from N 39° 43' 29.02" W 104° 23' 13.26" to N 39° 39' 41.17" W 103° 59' 43.11"	
	VOR: DEN	Available from N 39° 43' 29.02" W 104° 23' 13.26" to N 39° 39' 41.17" W 103° 59' 43.11"	
	VOR: DVV	Available from N 39° 43' 29.02" W 104° 23' 13.26" to N 39° 39' 41.17" W 103° 59' 43.11"	
	VOR: FQF	Available from N 39° 43' 29.02" W 104° 23' 13.26" to N 39° 39' 41.17" W 103° 59' 43.11"	
	VOR: TXC	Available from N 39° 40' 22.09" W 104° 4' 38.85" to N 39° 39' 41.17" W 103° 59' 43.11"	

DME/DME (Continued.)

Return To Summary

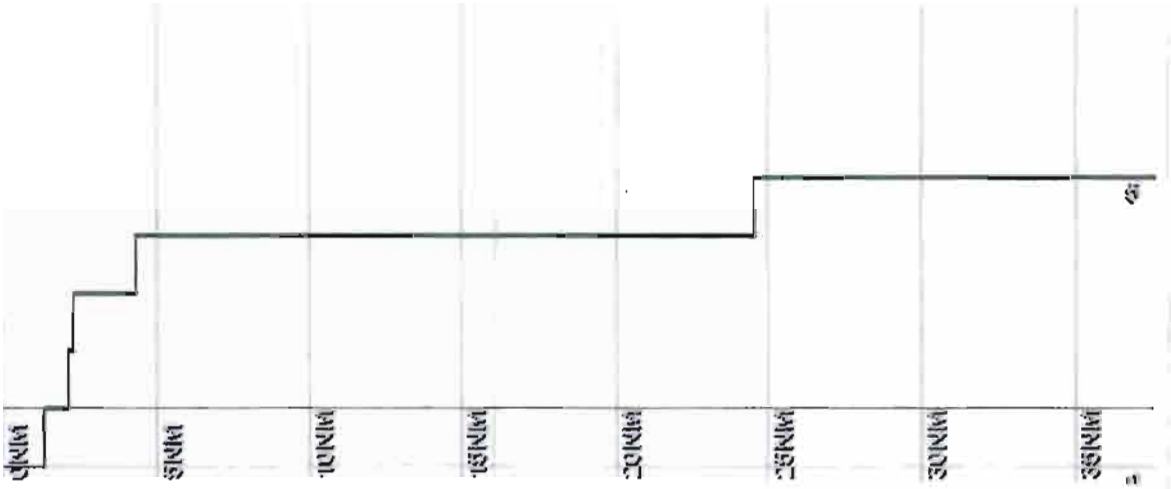
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.88" E 13	H	4900.0	114.20	GLL	Not Used
		ESV Bearing [True]: 167.0° to 175.0° Bearing [Mag]: 154.0° to 162.0°			Arc Distance: Out to 50.0 NM Altitude: 7000.0 to 23000.0 Ft.		
		ESV Bearing [True]: 150.0° to 167.0° Bearing [Mag]: 137.0° to 154.0°			Arc Distance: Out to 52.0 NM Altitude: 8000.0 to 23000.0 Ft.		
2	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Used
		ESV Bearing [True]: 105.0° to 120.0° Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 23000.0 Ft.		
3	AKO	N 40° 9' 19.98" W 103° 10' 46.96" E 13	H	4622.8	114.40	AKO	Not Used
		ESV Bearing [True]: 155.0° to 230.0° Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 85.0 NM Altitude: 14000.0 to 30000.0 Ft.		
4	HLC	N 39° 15' 31.48" W 100° 13' 33.06" E 8	H	2690.0	113.70	HLC	Not Used
		ESV Bearing [True]: 239.0° to 274.0° Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM Altitude: 14000.0 to 31000.0 Ft.		
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Used
		ESV Bearing [True]: 40.0° to 70.0° Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM Altitude: 14000.0 to 31000.0 Ft.		
		ESV Bearing [True]: 338.0° to 358.0° Bearing [Mag]: 326.0° to 346.0°			Arc Distance: Out to 64.0 NM Altitude: 14000.0 to 31000.0 Ft.		
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Not Used
		Restriction: Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft.		
		ESV Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 90.0 NM Altitude: 14000.0 to 31000.0 Ft.		
7	HCT	N 40° 27' 14.62" W 100° 55' 24.86" E 11	H	3010.0	117.70	HCT	Not Used
		ESV Bearing [True]: 207.0° to 233.0° Bearing [Mag]: 196.0° to 222.0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 SID RW34L APUUU 20120813_1526
Procedure Name:	EPKEE1
Software:	RNAV-Pro™
Version:	2.38v
Date/Time:	8/13/2012 3:26:45 PM
Input File:	EPKEE 5 1 RW34L APUUU 20120104-EDITED.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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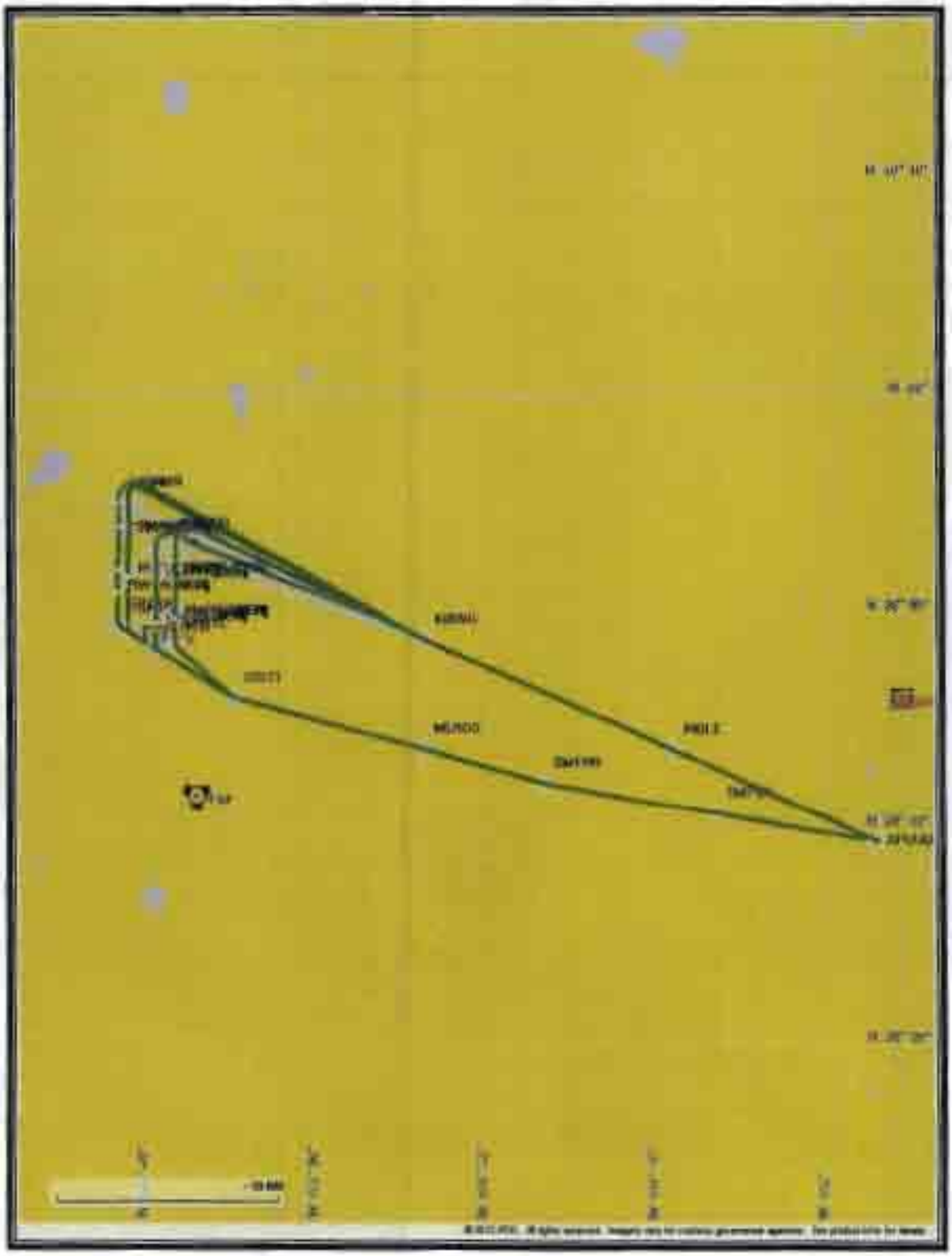


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW34L(...	WP	N 39° 51' 6.79" W 104° 41' 47.72"	5326.8	VNAV	0.0	Fly Over	TF
RW16R(...	WP	N 39° 53' 44.87" W 104° 41' 45.90"	5356.7	VNAV	130.0	Fly Over	VA
GH34L	WP	N 39° 54' 58.40" W 104° 41' 45.05"	5934.0	VNAV	145.0	Fly Over	DF
KIDNG	WP	N 39° 48' 37.67" W 104° 23' 39.58"	9251.0	VNAV	180.0	Fly By	TF
PIDLE	WP	N 39° 43' 34.36" W 104° 9' 7.55"	11894.0	VNAV	210.0	Fly By	TF
APUUU	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly Over	TF

Climb Gradient:

Table:

400.0 Ft/NM up to **5934.0 Ft MSL**

215.0 Ft/NM up to **14000.0 Ft MSL**

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient:

Table:

400.0 Ft/NM up to **5934.0 Ft MSL**
215.0 Ft/NM up to **14000.0 Ft MSL**

Ground Speeds:

Departure: **120.0 Kts** out to **10.0 NM**
Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -58.15 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 6039 Ft

Total Number of DMEs Used: 7

Maximum DME Error: 0.858 NM

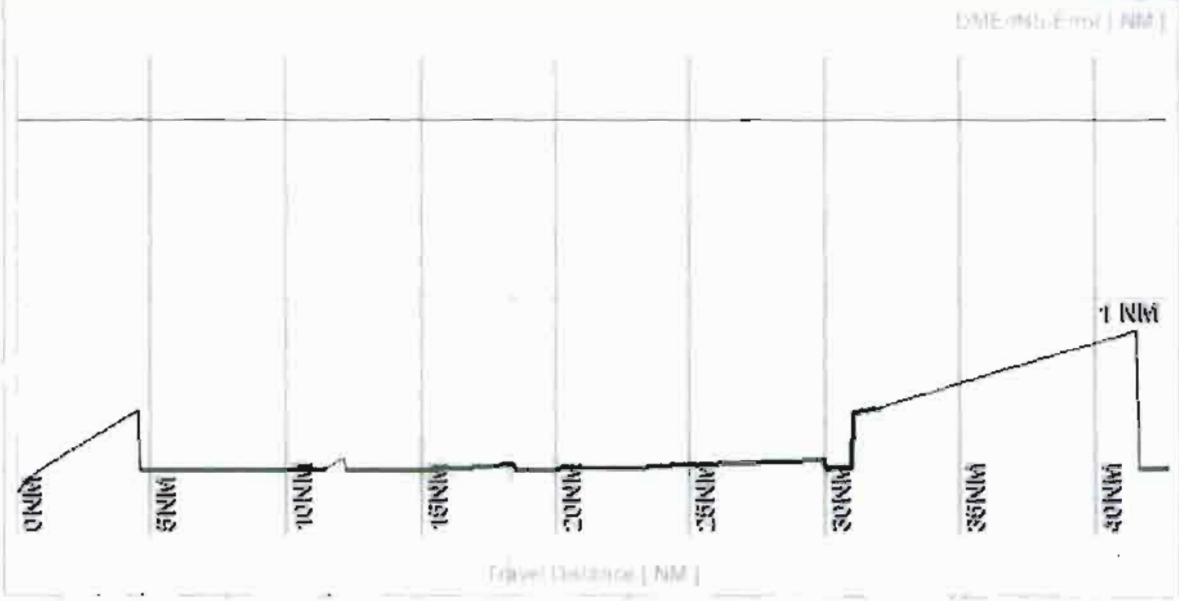
No Critical DMEs were found

Available DMEs: GLL, DEN, FQF, BJC, DVV, TXC, HGO

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	User	NO	0.858	Enabled	26.9 %	29.2 %
2	BJC	N 39° 54' 46.67" W 105° 8' 20.47" E 11	H	Database	NO	0.858	Enabled	22.4 %	16.0 %
3	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	0.882	Enabled	35.2 %	33.1 %
4	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H + ESV	User	NO	0.639	Enabled	15.9 %	17.0 %
5	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H + ESV	User	NO	0.858	Enabled	23.7 %	29.3 %
6	HGO	N 36° 49' 3.00" W 103° 37' 17.00" E 12	H + ESV	User	NO	0.898	Enabled	1.9 %	2.7 %
7	TXC	N 39° 41' 53.94" W 103° 12' 53.78" E 12	L	Database	NO	0.858	Enabled	1.9 %	2.7 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
2.7	GLL	DEN	FQF			
4.1	GLL	DEN	FQF	BJC	DVV	
20.0	GLL	DEN	FQF	BJC	DVV	
32.5	HGO	DEN	FQF	TXC	DVV	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 51' 6.79" W 104° 41' 47.72"	N 39° 55' 38.60" W 104° 41' 35.10"	4.6
	VOR: BJC	Available from N 39° 51' 6.79" W 104° 41' 47.72" to N 39° 55' 38.60" W 104° 41' 35.10"	
	VOR: BVR	Available from N 39° 51' 6.79" W 104° 41' 47.72" to N 39° 55' 38.60" W 104° 41' 35.10"	
	VOR: DEN	Available from N 39° 51' 6.79" W 104° 41' 47.72" to N 39° 55' 38.60" W 104° 41' 35.10"	
	VOR: DVV	Available from N 39° 51' 6.79" W 104° 41' 47.72" to N 39° 55' 38.60" W 104° 41' 35.10"	
	VOR: FQF	Available from N 39° 51' 6.79" W 104° 41' 47.72" to N 39° 55' 38.60" W 104° 41' 35.10"	
	VOR: GLL	Available from N 39° 51' 6.79" W 104° 41' 47.72" to N 39° 55' 38.60" W 104° 41' 35.10"	
2	N 39° 52' 49.52" W 104° 33' 42.23"	N 39° 52' 29.52" W 104° 32' 54.25"	0.7
	VOR: BJC	Available from N 39° 52' 49.52" W 104° 33' 42.23" to N 39° 52' 29.52" W 104° 32' 54.25"	
	VOR: BVR	Available from N 39° 52' 49.52" W 104° 33' 42.23" to N 39° 52' 29.52" W 104° 32' 54.25"	
	VOR: DEN	Available from N 39° 52' 49.52" W 104° 33' 42.23" to N 39° 52' 29.52" W 104° 32' 54.25"	
	VOR: DVV	Available from N 39° 52' 49.52" W 104° 33' 42.23" to N 39° 52' 29.52" W 104° 32' 54.25"	
	VOR: FQF	Available from N 39° 52' 49.52" W 104° 33' 42.23" to N 39° 52' 29.52" W 104° 32' 54.25"	
	VOR: GLL	Available from N 39° 52' 49.52" W 104° 33' 42.23" to N 39° 52' 29.52" W 104° 32' 54.25"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 39° 43' 48.52" W 104° 9' 48.06"	N 39° 39' 48.47" W 103° 58' 29.59"	9.6
	VOR: BVR	Available from N 39° 43' 48.52" W 104° 9' 48.06" to N 39° 39' 48.47" W 103° 58' 29.59"	
	VOR: DEN	Available from N 39° 43' 48.52" W 104° 9' 48.06" to N 39° 39' 48.47" W 103° 58' 29.59"	
	VOR: DVV	Available from N 39° 43' 48.52" W 104° 9' 48.06" to N 39° 39' 48.47" W 103° 58' 29.59"	
	VOR: FQF	Available from N 39° 43' 48.52" W 104° 9' 48.06" to N 39° 39' 48.47" W 103° 58' 29.59"	
	VOR: TXC	Available from N 39° 42' 0.42" W 104° 4' 41.57" to N 39° 39' 48.47" W 103° 58' 29.59"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Used
		ESV: Bearing [True]: 167.0° to 175.0° Bearing [Mag]: 154.0° to 162.0°			Arc Distance: Out to 50.0 NM Altitude: 7000.0 to 23000.0 Ft.		
		ESV: Bearing [True]: 150.0° to 167.0° Bearing [Mag]: 137.0° to 154.0°			Arc Distance: Out to 52.0 NM Altitude: 8000.0 to 23000.0 Ft.		
2	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Used
		ESV: Bearing [True]: 105.0° to 120.0° Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 23000.0 Ft.		
3	AKO	N 40° 9' 19.99" W 103° 10' 46.96" E 13	H	4622.8	114.40	AKO	Not Used
		ESV: Bearing [True]: 155.0° to 230.0° Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 65.0 NM Altitude: 14000.0 to 30000.0 Ft.		
4	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H	2690.0	113.70	HLC	Not Used
		ESV: Bearing [True]: 239.0° to 274.0° Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM Altitude: 14000.0 to 31000.0 Ft		
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Used
		ESV: Bearing [True]: 40.0° to 70.0° Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM Altitude: 14000.0 to 31000.0 Ft		
		ESV: Bearing [True]: 338.0° to 358.0° Bearing [Mag]: 326.0° to 346.0°			Arc Distance: Out to 64.0 NM Altitude: 14000.0 to 31000.0 Ft.		

DME/DME (Continued.)

Return To Summary

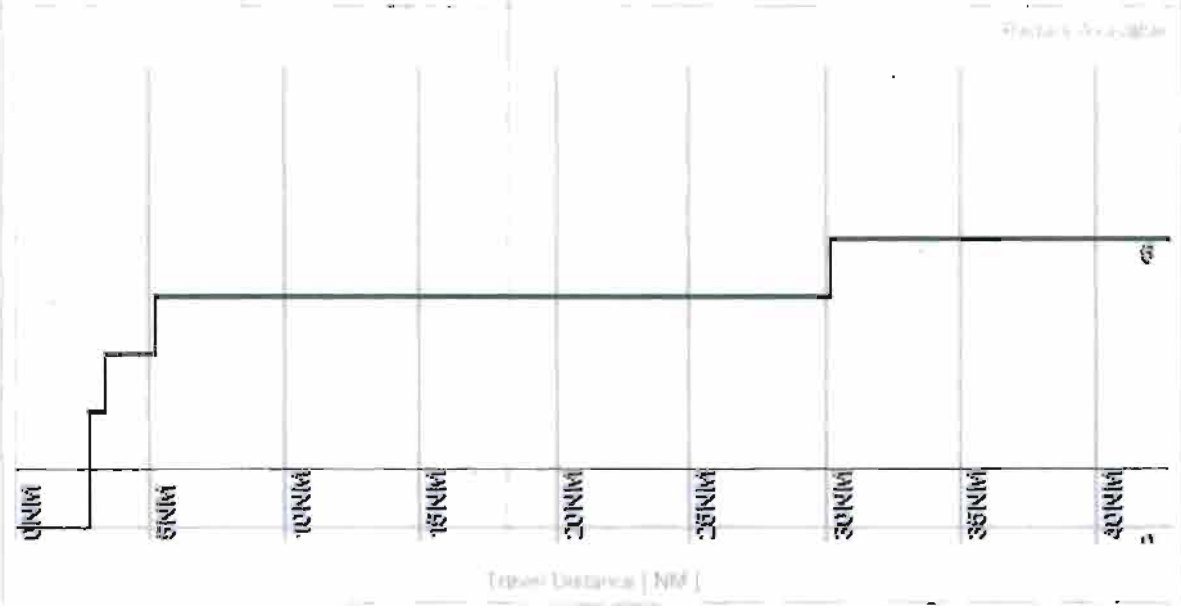
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Not Used
	Restriction:	Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft.		
	ESV:	Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 90.0 NM Altitude: 14000.0 to 31000.0 Ft.		
7	HCT	N 40° 27' 14.62" W 100° 55' 24.86" E 11	H	3010.0	117.70	HCT	Not Used
	ESV:	Bearing [True]: 207.0° to 233.0° Bearing [Mag]: 196.0° to 222.0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft.		
8	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	5440.0	117.90	DEN	Used

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 SID RW34R APUUU 20120813_1527
Procedure Name:	EPKEE1
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/13/2012 3:27:34 PM
Input File:	EPKEE 5-1 RW34R APUUU 20120104-EDITED.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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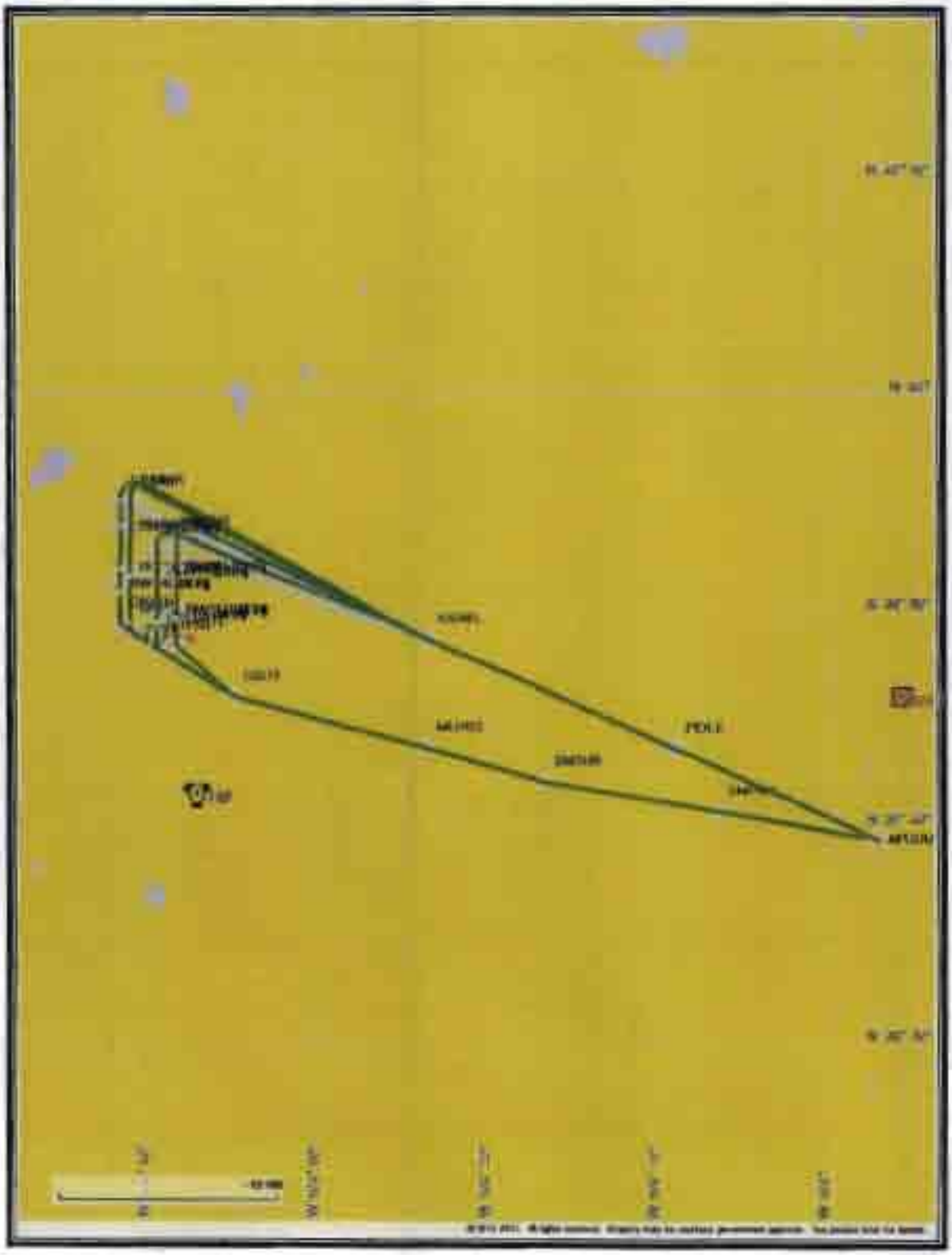

POLE

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW34R(...	WP	N 39° 51' 50.78" W 104° 41' 13.88"	5350.6	VNAV	0.0	Fly Over	TF
RW16L(...	WP	N 39° 53' 49.33" W 104° 41' 12.50"	5382.0	VNAV	130.0	Fly Over	VA
GH34R	WP	N 39° 54' 59.82" W 104° 41' 11.68"	5934.0	VNAV	145.0	Fly Over	DF
KIDNG	WP	N 39° 48' 37.67" W 104° 23' 39.58"	9245.0	VNAV	180.0	Fly By	TF
PIDLE	WP	N 39° 43' 34.36" W 104° 9' 7.55"	11949.0	VNAV	210.0	Fly By	TF
APUUU	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly Over	TF

Climb Gradient:

Table

400.0 Ft/NM up to **5934.0 Ft MSL**

220.0 Ft/NM up to **14000.0 Ft MSL**

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient:

Table:

400.0 Ft/NM up to **5934.0 Ft MSL**
220.0 Ft/NM up to **14000.0 Ft MSL**

Ground Speeds:

Departure: **120.0 Kts** out to **10.0 NM**
Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -43.10 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
  Initial Drift: 0.165 NM
  INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 6046 Ft.

Total Number of DMEs Used: 7

Maximum DME Error: 0.842 NM

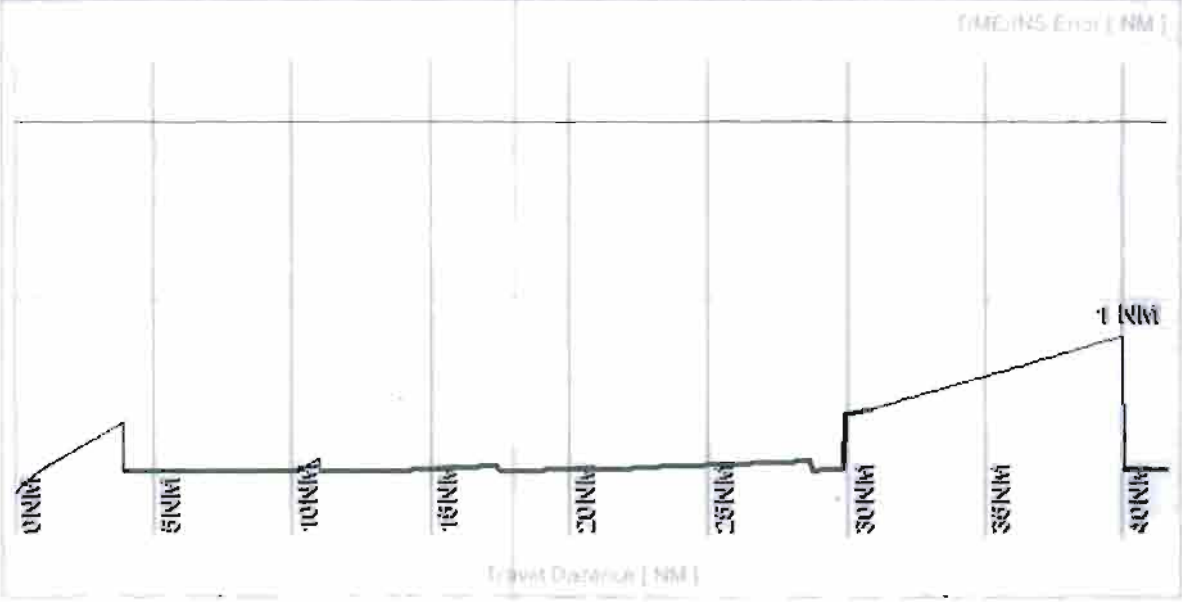
No Critical DMEs were found.

Available DMEs: GLL, DEN, FQF, BJC, DVV, TXC, HGO

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	User	NO	0.842	Enabled	25.1 %	27.9 %
2	BJC	N 39° 54' 46.87" W 105° 8' 20.47" E 11	H	Database	NO	0.956	Enabled	21.6 %	15.4 %
3	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	0.666	Enabled	36.9 %	34.3 %
4	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H + ESV	User	NO	0.842	Enabled	25.5 %	30.8 %
5	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H + ESV	User	NO	0.623	Enabled	17.2 %	17.6 %
6	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H + ESV	User	NO	0.896	Enabled	2.7 %	3.8 %
7	TXC	N 39° 41' 53.94" W 103° 12' 53.78" E 12	L	Database	NO	0.842	Enabled	2.7 %	3.8 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
2.0	GLL	DEN	FQF			
3.4	GLL	DEN	FQF	BJC	DVV	
18.9	GLL	DEN	FQF	BJC	DVV	
31.4	HGO	DEN	FQF	TXC	DVV	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 51' 50.78" W 104° 41' 13.88"	N 39° 55' 40.28" W 104° 41' 0.66"	3.9
	VOR: BJC	Available from N 39° 51' 50.78" W 104° 41' 13.88" to N 39° 55' 40.28" W 104° 41' 0.66"	
	VOR: BVR	Available from N 39° 51' 50.78" W 104° 41' 13.88" to N 39° 55' 40.28" W 104° 41' 0.66"	
	VOR: DEN	Available from N 39° 51' 50.78" W 104° 41' 13.88" to N 39° 55' 40.28" W 104° 41' 0.66"	
	VOR: DVV	Available from N 39° 51' 50.78" W 104° 41' 13.88" to N 39° 55' 40.28" W 104° 41' 0.66"	
	VOR: FQF	Available from N 39° 51' 50.78" W 104° 41' 13.88" to N 39° 55' 40.28" W 104° 41' 0.66"	
	VOR: GLL	Available from N 39° 51' 50.78" W 104° 41' 13.88" to N 39° 55' 40.28" W 104° 41' 0.66"	
2	N 39° 52' 57.57" W 104° 33' 40.33"	N 39° 52' 37.03" W 104° 32' 52.73"	0.7
	VOR: BJC	Available from N 39° 52' 57.57" W 104° 33' 40.33" to N 39° 52' 37.03" W 104° 32' 52.73"	
	VOR: BVR	Available from N 39° 52' 57.57" W 104° 33' 40.33" to N 39° 52' 37.03" W 104° 32' 52.73"	
	VOR: DEN	Available from N 39° 52' 57.57" W 104° 33' 40.33" to N 39° 52' 37.03" W 104° 32' 52.73"	
	VOR: DVV	Available from N 39° 52' 57.57" W 104° 33' 40.33" to N 39° 52' 37.03" W 104° 32' 52.73"	
	VOR: FQF	Available from N 39° 52' 57.57" W 104° 33' 40.33" to N 39° 52' 37.03" W 104° 32' 52.73"	
	VOR: GLL	Available from N 39° 52' 57.57" W 104° 33' 40.33" to N 39° 52' 37.03" W 104° 32' 52.73"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 39° 43' 48.49" W 104° 9' 47.96"	N 39° 40' 0.14" W 103° 59' 2.43"	9.1
	VOR: BVR	Available from N 39° 43' 48.49" W 104° 9' 47.96" to N 39° 40' 0.14" W 103° 59' 2.43"	
	VOR: DEN	Available from N 39° 43' 48.49" W 104° 9' 47.96" to N 39° 40' 0.14" W 103° 59' 2.43"	
	VOR: DVV	Available from N 39° 43' 48.49" W 104° 9' 47.96" to N 39° 40' 0.14" W 103° 59' 2.43"	
	VOR: FQF	Available from N 39° 43' 48.49" W 104° 9' 47.96" to N 39° 40' 0.14" W 103° 59' 2.43"	
	VOR: TXC	Available from N 39° 42' 0.39" W 104° 4' 41.48" to N 39° 40' 0.14" W 103° 59' 2.43"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Used
		ESV: Bearing [True]: 167.0° to 175.0° Bearing [Mag]: 154.0° to 162.0°			Arc Distance: Out to 50.0 NM Altitude: 7000.0 to 23000.0 Ft.		
		ESV: Bearing [True]: 150.0° to 167.0° Bearing [Mag]: 137.0° to 154.0°			Arc Distance: Out to 52.0 NM Altitude: 8000.0 to 23000.0 Ft.		
2	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Used
		ESV: Bearing [True]: 105.0° to 120.0° Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 23000.0 Ft.		
3	AKO	N 40° 9' 19.99" W 103° 10' 46.96" E 13	H	4622.8	114.40	AKO	Not Used
		ESV: Bearing [True]: 155.0° to 230.0° Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 65.0 NM Altitude: 14000.0 to 30000.0 Ft.		
4	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H	2690.0	113.70	HLC	Not Used
		ESV: Bearing [True]: 239.0° to 274.0° Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM Altitude: 14000.0 to 31000.0 Ft.		
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Used
		ESV: Bearing [True]: 40.0° to 70.0° Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM Altitude: 14000.0 to 31000.0 Ft.		
		ESV: Bearing [True]: 338.0° to 358.0° Bearing [Mag]: 326.0° to 346.0°			Arc Distance: Out to 64.0 NM Altitude: 14000.0 to 31000.0 Ft.		

DME/DME (Continued.)

Return To Summary

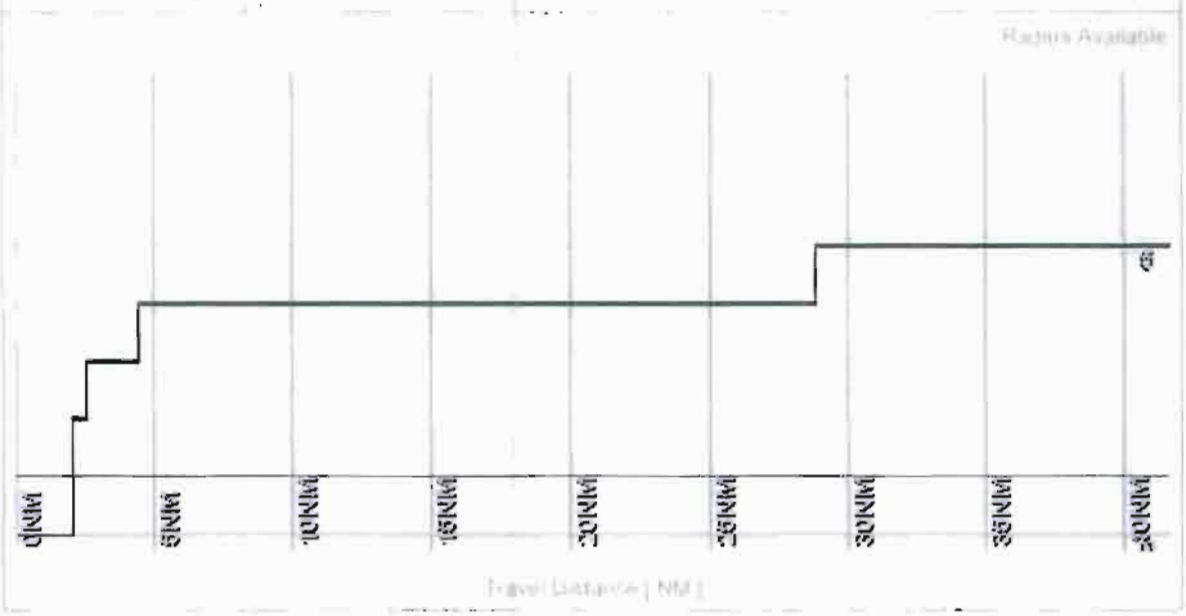
User DMEs (Continued.)

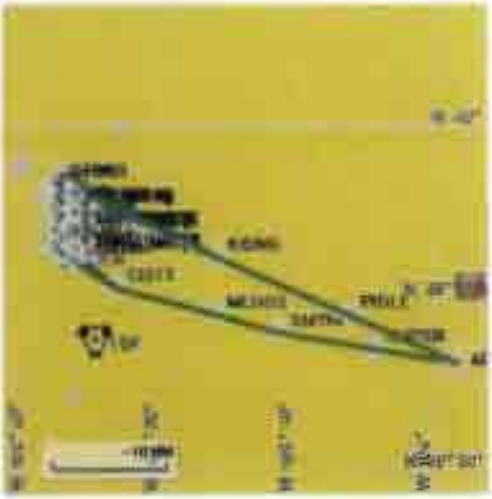
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Not Used
	Restriction:	Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft.		
	ESV:	Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 90.0 NM Altitude: 14000.0 to 31000.0 Ft.		
7	HCT	N 40° 27' 14.62" W 100° 55' 24.86" E 11	H	3010.0	117.70	HCT	Not Used
	ESV:	Bearing [True]: 207.0° to 233.0° Bearing [Mag]: 196.0° to 222.0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft.		
8	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	5440.0	117.90	DEN	Used

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 SID RW35L APUUU 20120813_1528
Procedure Name:	EPKEE1
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/13/2012 3:28:22 PM
Input File:	EPKEE 5.1 RW35L APUUU 20120104-EDITED.txt
Databases:	AVNIS Date: 02/07/2012 Obstacle Date: 08/26/2011 NFD Date: 09/30/2010 DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	
TERPS	

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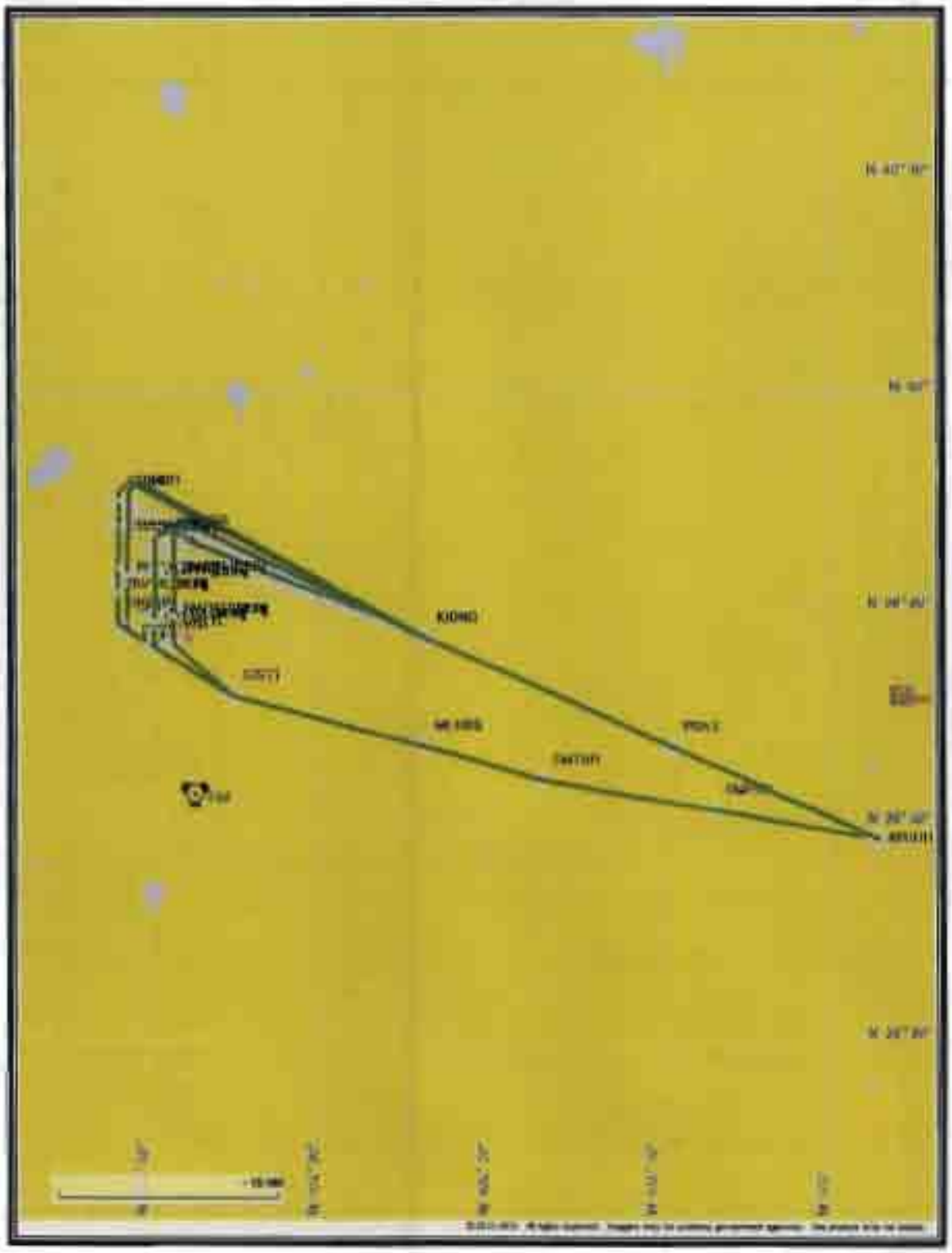

KDENO

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW35L(...	WP	N 39° 49' 41.93" W 104° 39' 37.98"	5430.5	VNAV	0.0	Fly Over	TF
RW17R(...	WP	N 39° 51' 40.48" W 104° 39' 36.56"	5409.4	VNAV	130.0	Fly Over	VA
GH35L	WP	N 39° 52' 47.26" W 104° 39' 35.75"	5934.0	VNAV	145.0	Fly Over	DF
KIDNG	WP	N 39° 48' 37.67" W 104° 23' 39.58"	8935.0	VNAV	180.0	Fly By	TF
PIDLE	WP	N 39° 43' 34.36" W 104° 9' 7.55"	11762.0	VNAV	210.0	Fly By	TF
APUUU	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly Over	TF

Climb Gradient:

Table:

400.0 Ft/NM up to **5934.0 Ft MSL**

230.0 Ft/NM up to **14000.0 Ft MSL**

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient:

Table:
400.0 Ft/NM up to **5934.0 Ft MSL**
230.0 Ft/NM up to **14000.0 Ft MSL**

Ground Speeds:

Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was 1.74 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 6074 Ft.

Total Number of DMEs Used: 7

Maximum DME Error 0.858 NM

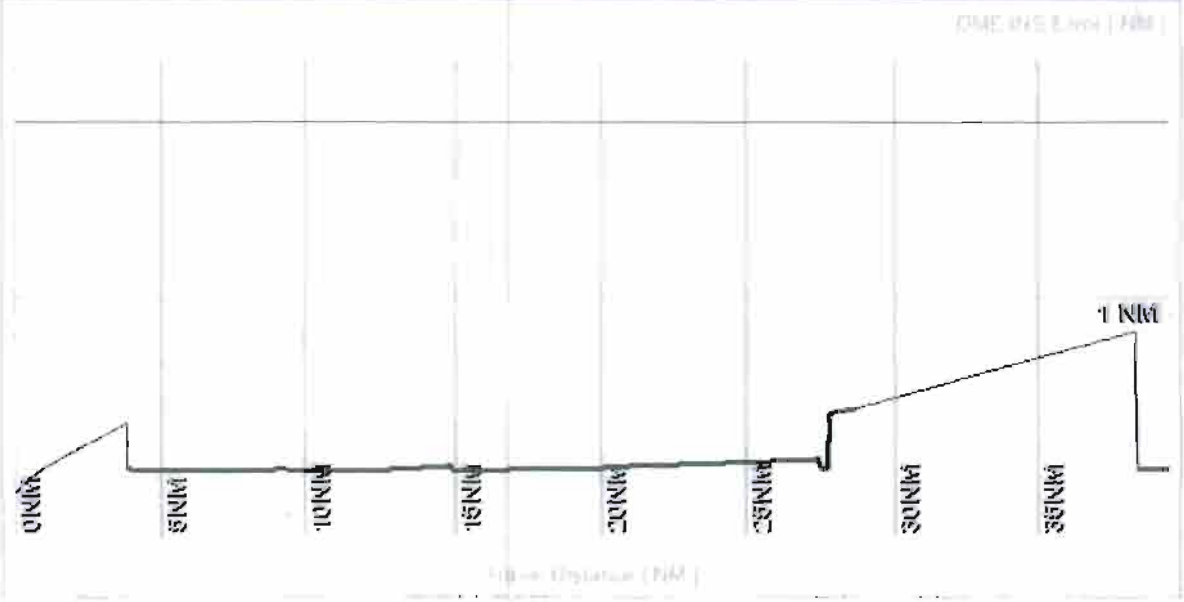
No Critical DMEs were found

Available DMEs: DEN, GLL, FQF, BJC, DVV, TXC, HGO

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BJC	N 39° 54' 46.87" W 105° 8' 20.47" E 11	H	Database	NO	0.858	Enabled	18.9 %	13.6 %
2	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	0.829	Enabled	40.9 %	34.1 %
3	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H + ESV	User	NO	0.637	Enabled	18.8 %	16.5 %
4	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H + ESV	User	NO	0.858	Enabled	26.6 %	32.7 %
5	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	User	NO	0.858	Enabled	23.4 %	28.8 %
6	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H + ESV	User	NO	0.896	Enabled	2.0 %	2.9 %
7	TXC	N 39° 41' 53.94" W 103° 12' 53.78" E 12	L	Database	NO	0.858	Enabled	2.0 %	2.9 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
2.0	DEN	GLL	FQF			
3.3	DEN	GLL	FQF	DVV	BJC	
16.8	DEN	GLL	FQF	DVV	BJC	
29.2	DEN	HGO	FQF	DVV	TXC	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 49' 41.93" W 104° 39' 37.98"	N 39° 53' 27.52" W 104° 39' 19.04"	3.8
	VOR: BJC	Available from N 39° 49' 41.93" W 104° 39' 37.98" to N 39° 53' 27.52" W 104° 39' 19.04"	
	VOR: BVR	Available from N 39° 49' 41.93" W 104° 39' 37.98" to N 39° 53' 27.52" W 104° 39' 19.04"	
	VOR: DEN	Available from N 39° 49' 41.93" W 104° 39' 37.98" to N 39° 53' 27.52" W 104° 39' 19.04"	
	VOR: DVV	Available from N 39° 49' 41.93" W 104° 39' 37.98" to N 39° 53' 27.52" W 104° 39' 19.04"	
	VOR: FQF	Available from N 39° 49' 41.93" W 104° 39' 37.98" to N 39° 53' 27.52" W 104° 39' 19.04"	
	VOR: GLL	Available from N 39° 50' 30.99" W 104° 39' 37.39" to N 39° 53' 27.52" W 104° 39' 19.04"	
2	N 39° 43' 48.54" W 104° 9' 48.06"	N 39° 39' 48.48" W 103° 58' 29.60"	9.6
	VOR: BVR	Available from N 39° 43' 48.54" W 104° 9' 48.06" to N 39° 39' 48.48" W 103° 58' 29.60"	
	VOR: DEN	Available from N 39° 43' 48.54" W 104° 9' 48.06" to N 39° 39' 48.48" W 103° 58' 29.60"	
	VOR: DVV	Available from N 39° 43' 48.54" W 104° 9' 48.06" to N 39° 39' 48.48" W 103° 58' 29.60"	
	VOR: FQF	Available from N 39° 43' 48.54" W 104° 9' 48.06" to N 39° 39' 48.48" W 103° 58' 29.60"	
	VOR: TXC	Available from N 39° 42' 0.42" W 104° 4' 41.59" to N 39° 39' 48.48" W 103° 58' 29.60"	

DME/DME (Continued.)

Return To Summary

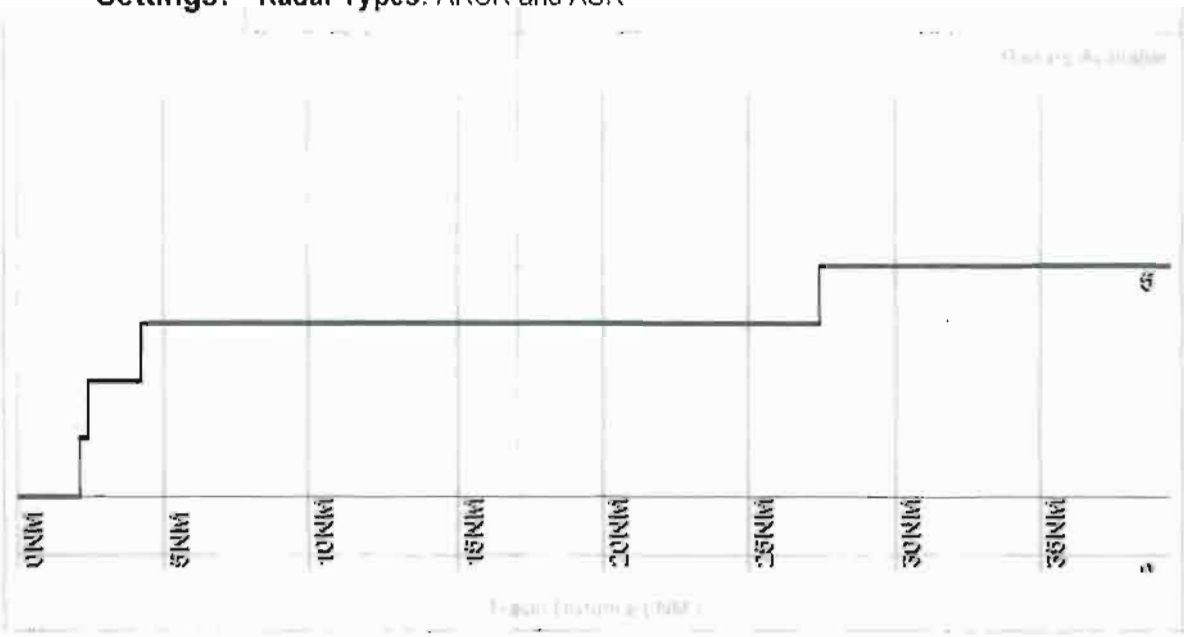
User DMEs

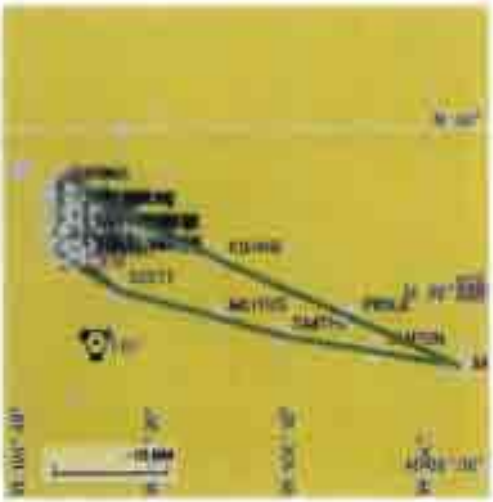
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Used
		ESV: Bearing [True]: 167.0° to 175.0° Bearing [Mag]: 154.0° to 162.0°			Arc Distance: Out to 50.0 NM Altitude: 7000.0 to 23000.0 Ft		
		ESV: Bearing [True]: 160.0° to 167.0° Bearing [Mag]: 137.0° to 154.0°			Arc Distance: Out to 52.0 NM Altitude: 8000.0 to 23000.0 Ft		
2	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Used
		ESV: Bearing [True]: 105.0° to 120.0° Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 23000.0 Ft		?
3	AKO	N 40° 9' 19.99" W 103° 10' 46.96" E 13	H	4622.8	114.40	AKO	Not Used
		ESV: Bearing [True]: 155.0° to 230.0° Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 65.0 NM Altitude: 14000.0 to 30000.0 Ft		
4	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H	2690.0	113.70	HLC	Not Used
		ESV: Bearing [True]: 239.0° to 274.0° Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM Altitude: 14000.0 to 31000.0 Ft		
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Used
		ESV: Bearing [True]: 40.0° to 70.0° Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM Altitude: 14000.0 to 31000.0 Ft		/
		ESV: Bearing [True]: 338.0° to 356.0° Bearing [Mag]: 326.0° to 346.0°			Arc Distance: Out to 64.0 NM Altitude: 14000.0 to 31000.0 Ft		/
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Not Used
		Restriction: Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft		
		ESV: Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 95.0 NM Altitude: 14000.0 to 31000.0 Ft		
7	HCT	N 40° 27' 14.62" W 100° 55' 24.66" E 11	H	3010.0	117.70	HCT	Not Used
		ESV: Bearing [True]: 207.0° to 233.0° Bearing [Mag]: 196.0° to 222.0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft		
8	DEN	N 39° 46' 45.00" W 104° 39' 38.70" E 11	H	5440.0	117.90	DEN	Used

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 SID RW35R APUUU 20120813_1529
Procedure Name:	EPKEE1
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/13/2012 3:29:09 PM
Input File:	EPKEE 5.1 RW35R APUUU 20120104-EDITED.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	
TERPS	

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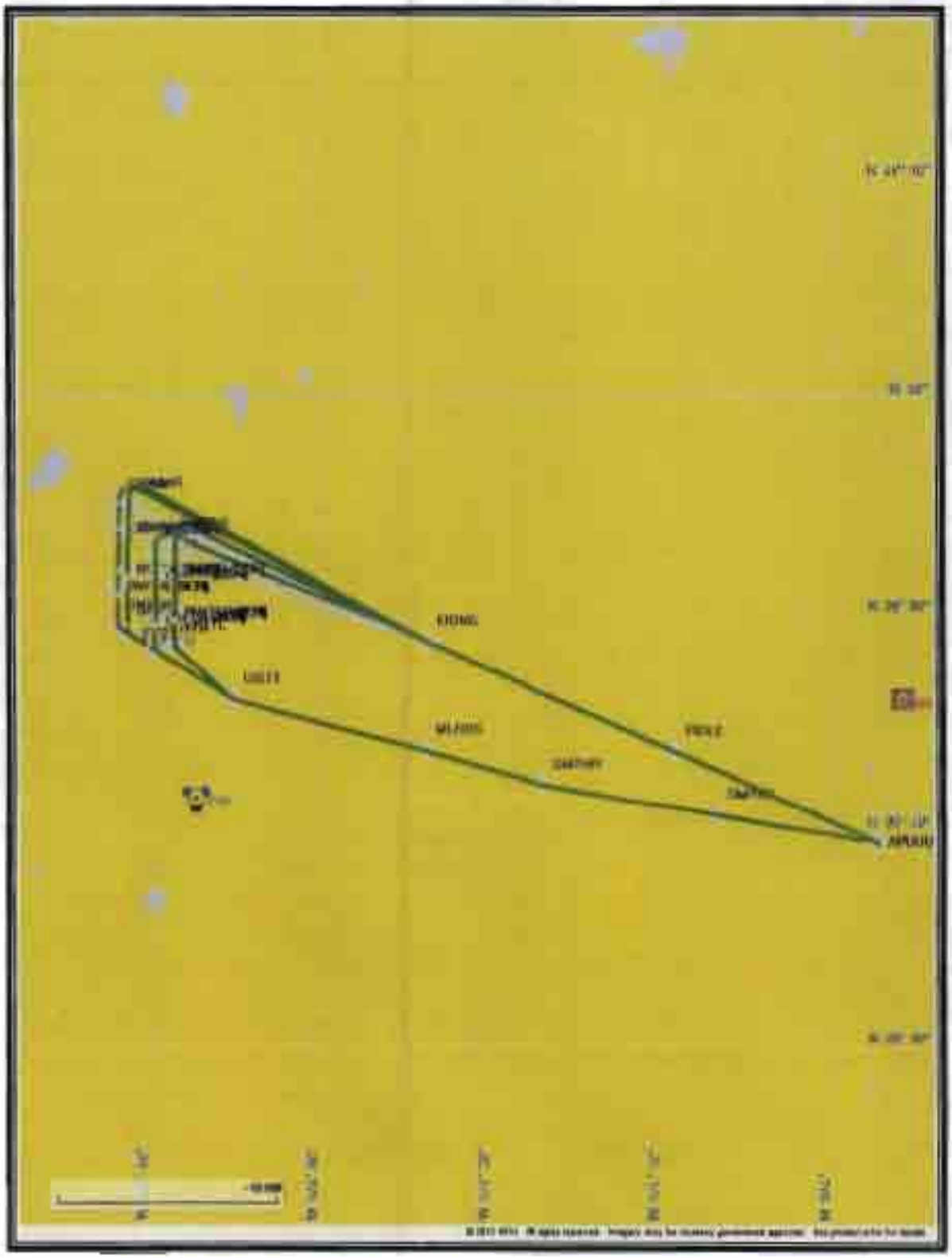

APUUU

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW35R(..	WP	N 39° 49' 55.27" W 104° 38' 30.16"	5366.7	VNAV	0.0	Fly Over	TF
RW17L(...	WP	N 39° 51' 53.83" W 104° 38' 28.70"	5359.8	VNAV	130.0	Fly Over	VA
GH35R	WP	N 39° 53' 6.59" W 104° 38' 27.81"	5934.0	VNAV	145.0	Fly Over	DF
KIDNG	WP	N 39° 48' 37.67" W 104° 23' 39.58"	8839.0	VNAV	180.0	Fly By	TF
PIDLE	WP	N 39° 43' 34.36" W 104° 9' 7.55"	11727.0	VNAV	210.0	Fly By	TF
APUUU	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly Over	TF

Climb Gradient:

Table:

400.0 Ft/NM up to **5934.0 Ft MSL**

235.0 Ft/NM up to **14000.0 Ft MSL**

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient:

Table.
400.0 Ft/NM up to **5934.0 Ft MSL**
235.0 Ft/NM up to **14000.0 Ft MSL**

Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -20.44 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 6090 Ft.

Total Number of DMEs Used: 7

Maximum DME Error: 0.654 NM

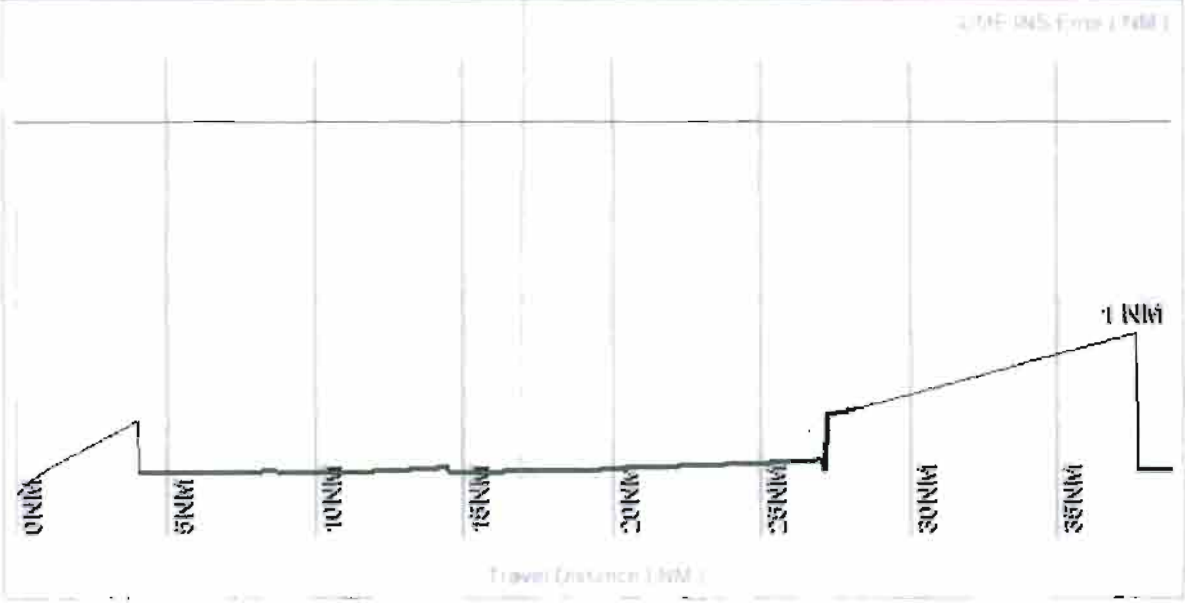
No Critical DMEs were found.

Available DMEs: DEN, FQF, GLL, BJC, DVV, TXC, HGO

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H + ESV	User	NO	0.854	Enabled	26.6 %	32.7 %
2	BJC	N 39° 54' 46.87" W 105° 8' 20.47" E 11	H	Database	NO	0.854	Enabled	16.4 %	11.9 %
3	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	0.678	Enabled	39.7 %	32.9 %
4	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H + ESV	User	NO	0.635	Enabled	20.4 %	17.5 %
5	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	User	NO	0.854	Enabled	23.5 %	29.0 %
6	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H + ESV	User	NO	0.894	Enabled	2.1 %	3.1 %
7	TXC	N 39° 41' 53.94" W 103° 12' 53.78" E 12	L	Database	NO	0.854	Enabled	2.1 %	3.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
2.0	DEN	FQF	GLL			
3.4	DEN	FQF	GLL	BJC	DVV	
16.3	DEN	FQF	GLL	BJC	DVV	
28.7	DEN	FQF	HGO	TXC	DVV	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 49' 55.27" W 104° 38' 30.16"	N 39° 53' 51.25" W 104° 38' 7.40"	4.0
	VOR: BJC	Available from N 39° 49' 55.27" W 104° 38' 30.16" to N 39° 53' 51.25" W 104° 38' 7.40"	
	VOR: BVR	Available from N 39° 49' 55.27" W 104° 38' 30.16" to N 39° 53' 51.25" W 104° 38' 7.40"	
	VOR: DEN	Available from N 39° 49' 55.27" W 104° 38' 30.16" to N 39° 53' 51.25" W 104° 38' 7.40"	
	VOR: DVV	Available from N 39° 49' 55.27" W 104° 38' 30.16" to N 39° 53' 51.25" W 104° 38' 7.40"	
	VOR: FQF	Available from N 39° 49' 55.27" W 104° 38' 30.16" to N 39° 53' 51.25" W 104° 38' 7.40"	
	VOR: GLL	Available from N 39° 50' 24.99" W 104° 38' 29.79" to N 39° 53' 51.25" W 104° 38' 7.40"	
2	N 39° 43' 47.78" W 104° 9' 46.04"	N 39° 39' 51.10" W 103° 58' 36.97"	9.5
	VOR: BVR	Available from N 39° 43' 47.78" W 104° 9' 46.04" to N 39° 39' 51.10" W 103° 58' 36.97"	
	VOR: DEN	Available from N 39° 43' 47.78" W 104° 9' 46.04" to N 39° 39' 51.10" W 103° 58' 36.97"	
	VOR: DVV	Available from N 39° 43' 47.78" W 104° 9' 46.04" to N 39° 39' 51.10" W 103° 58' 36.97"	
	VOR: FQF	Available from N 39° 43' 47.78" W 104° 9' 46.04" to N 39° 39' 51.10" W 103° 58' 36.97"	
	VOR: TXC	Available from N 39° 41' 59.71" W 104° 4' 39.54" to N 39° 39' 51.10" W 103° 58' 36.97"	

DME/DME (Continued.)

Return To Summary

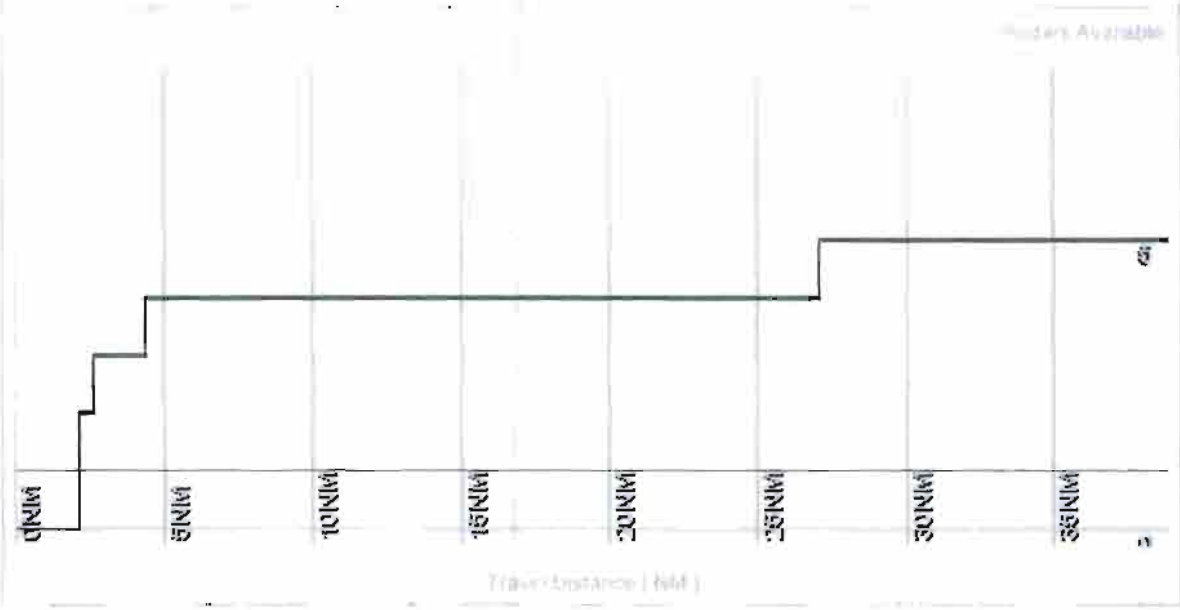
User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Used
		ESV: Bearing [True]: 167.0° to 175.0° Bearing [Mag]: 154.0° to 162.0°			Arc Distance: Out to 50.0 NM Altitude: 7000.0 to 23000.0 Ft.		
		ESV Bearing [True]: 150.0° to 167.0° Bearing [Mag]: 137.0° to 154.0°			Arc Distance: Out to 52.0 NM Altitude: 8000.0 to 23000.0 Ft.		
2	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Used
		ESV: Bearing [True]: 105.0° to 120.0° Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 23000.0 Ft.		
3	AKO	N 40° 9' 19.99" W 103° 10' 46.96" E 13	H	4622.8	114.40	AKO	Not Used
		ESV: Bearing [True]: 155.0° to 230.0° Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 65.0 NM Altitude: 14000.0 to 30000.0 Ft.		
4	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H	2690.0	113.70	HLC	Not Used
		ESV: Bearing [True]: 239.0° to 274.0° Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM Altitude: 14000.0 to 31000.0 Ft.		
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Used
		ESV: Bearing [True]: 40.0° to 70.0° Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM Altitude: 14000.0 to 31000.0 Ft		
		ESV: Bearing [True]: 338.0° to 358.0° Bearing [Mag]: 328.0° to 346.0°			Arc Distance: Out to 64.0 NM Altitude: 14000.0 to 31000.0 Ft		
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Not Used
		Restriction: Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft		
		ESV: Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 90.0 NM Altitude: 14000.0 to 31000.0 Ft		
7	HCT	N 40° 27' 14.62" W 100° 55' 24.86" E 11	H	3010.0	117.70	HCT	Not Used
		ESV: Bearing [True]: 207.0° to 233.0° Bearing [Mag]: 196.0° to 222.0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft.		
8	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	5440.0	117.90	DEN	Used

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	Martha Dunn
Project Name:	KDEN
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/14/2012 8:30:19 AM
Input File:	Grid Area Assessment
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Grid ✔ DME/DME Grid Analysis

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MSL Grid Evaluation
No Coverage
1 Pair Avail.
2 Pairs Avail.
3+ Pairs Avail.
Criticals

DME/DME Grid Analysis

Return To Summary

Coverage Exists

Polygon Grid Definition:

Settings:

1	Lat: N 39° 48' 53.84" Lon: W 104° 0' 56.52"	21	Lat: N 39° 33' 40.94" Lon: W 104° 13' 19.77"
2	Lat: N 39° 52' 43.50" Lon: W 104° 2' 27.74"	22	Lat: N 39° 34' 3.71" Lon: W 104° 13' 43.65"
3	Lat: N 39° 52' 50.36" Lon: W 104° 1' 50.73"	23	Lat: N 39° 34' 28.57" Lon: W 104° 14' 3.76"
4	Lat: N 39° 52' 53.69" Lon: W 104° 1' 12.91"	24	Lat: N 39° 34' 55.13" Lon: W 104° 14' 19.82"
5	Lat. N 39° 52' 53.44" Lon. W 104° 0' 34.85"	25	Lat: N 39° 35' 12.93" Lon: W 104° 14' 27.88"
6	Lat: N 39° 52' 49.62" Lon: W 103° 59' 57.11"	26	Lat: N 39° 36' 23.32" Lon: W 104° 9' 31.02"
7	Lat: N 39° 52' 42.28" Lon: W 103° 59' 20.25"	27	Lat: N 39° 36' 23.32" Lon: W 104° 9' 31.02"
8	Lat: N 39° 52' 31.53" Lon: W 103° 58' 44.84"	28	Lat: N 39° 37' 34.57" Lon: W 104° 9' 53.39"
9	Lat: N 39° 52' 17.53" Lon: W 103° 58' 11.40"	29	Lat: N 39° 38' 47.40" Lon: W 104° 10' 4.37"
10	Lat: N 39° 52' 0.49" Lon: W 103° 57' 40.42"	30	Lat N 39° 40' 0.71" Lon: W 104° 10' 3.79"
11	Lat: N 39° 51' 40.67" Lon: W 103° 57' 12.37"	31	Lat N 39° 41' 13.43" Lon: W 104° 9' 51.66"
12	Lat: N 39° 51' 26.59" Lon: W 103° 56' 56.09"	32	Lat: N 39° 42' 24.46" Lon: W 104° 9' 28.13"
13	Lat: N 39° 45' 10.42" Lon: W 103° 50' 12.61"	33	Lat: N 39° 43' 32.74" Lon: W 104° 8' 53.55"
14	Lat. N 39° 31' 37.76" Lon: W 103° 59' 28.31"	34	Lat: N 39° 44' 37.26" Lon: W 104° 8' 8.44"
15	Lat: N 39° 32' 24.22" Lon: W 104° 10' 0.68"	35	Lat: N 39° 45' 37.04" Lon: W 104° 7' 13.45"
16	Lat: N 39° 32' 28.80" Lon: W 104° 10' 38.10"	36	Lat. N 39° 46' 31.20" Lon: W 104° 6' 9.41"
17	Lat: N 39° 32' 36.87" Lon: W 104° 11' 14.52"	37	Lat: N 39° 47' 18.91" Lon. W 104° 4' 57.26"

DME/DME Grid Analysis (Continued.)

Return To Summary

Coverage Exists

Settings:

Polygon Grid Definition:

18	Lat: N 39° 32' 48.31" Lon: W 104° 11' 49.40"	38	Lat: N 39° 47' 59.47" Lon: W 104° 3' 38.09"
19	Lat: N 39° 33' 2.95" Lon: W 104° 12' 22.22"	39	Lat: N 39° 48' 32.27" Lon: W 104° 2' 13.07"
20	Lat: N 39° 33' 20.59" Lon. W 104° 12' 52.49"	40	Lat: N 39° 48' 53.83" Lon: W 104° 0' 56.52"

Lat Step: 1 NM
Lon Step: 1 NM
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Co-Frequencies: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , and User
DME Include Angles: 30 to 150
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Maximum Possible ESVs Used
Altitude: 14000.0 Ft. MSL
PNA Import from RDVA-Pro: KDEN PNA APUUU EPKEE

DME/DME Grid Analysis (Continued.)

Return To Summary

Maximum Gap: 0.0 NM

Maximum Critical Gap: 0.0 NM

	AGL Altitudes
Min Cell Altitude	8,320.9 Ft.
Max Cell Altitude	9,128.0 Ft.
Mean Cell Altitude	8,770.1 Ft.
Std. Dev. Cell Altitude	184.7 Ft.

Statistics based only on passing cells

Most Used DMEs: TXC (255), SNY (255), GLD (255), FQF (255), CYS (255), BJC (255), GLL (255), DVV (255), AKO (255), and HGO (255).

Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 PNA SID APUUU EPKEE 20120814_0851
Procedure Name:	EPKEE1 PNA
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/14/2012 8:51:04 AM
Input File:	KDEN_PNA_APUUU_EPKEE_CCW.txt
Databases:	AVNIS Date: 02/07/2012 Obstacle Date: 08/26/2011 NFD Date: 09/30/2010 DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	

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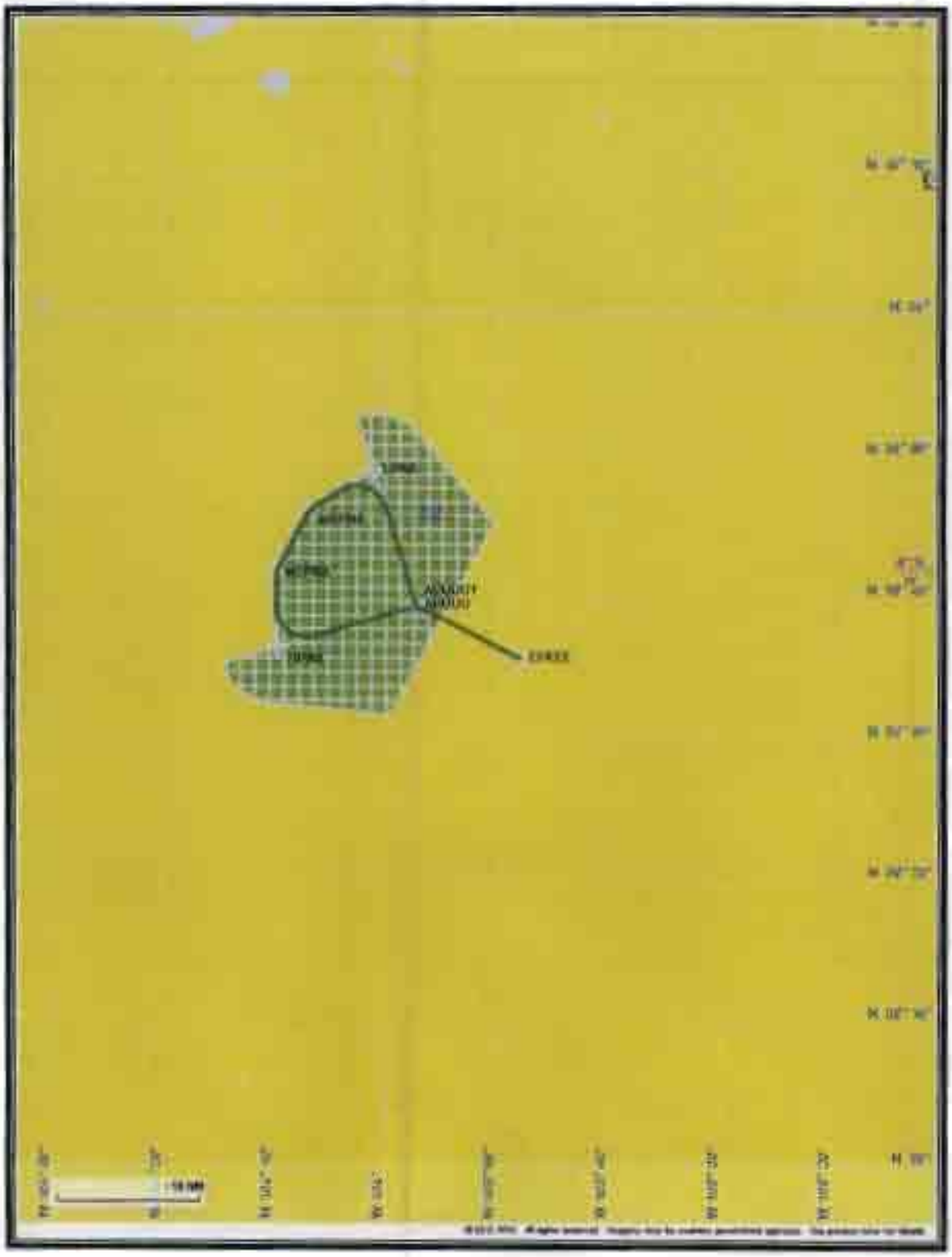

EPKEE
10 NM

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
APUUU	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly Over	TF
LPNA	WP	N 39° 48' 53.76" W 104° 0' 56.83"	14000.0	VNAV	210.0	Fly By	TF
M1PNA	WP	N 39° 46' 8.54" W 104° 6' 38.13"	14000.0	VNAV	210.0	Fly By	TF
M2PNA	WP	N 39° 41' 33.70" W 104° 9' 46.16"	14000.0	VNAV	210.0	Fly By	TF
RPNA	WP	N 39° 36' 23.08" W 104° 9' 30.93"	14000.0	VNAV	210.0	Fly By	TF
APUUU1	WP	N 39° 39' 19.69" W 103° 57' 8.68"	14000.0	VNAV	210.0	Fly By	TF
EPKEE	WP	N 39° 35' 34.21" W 103° 47' 58.30"	14000.0	VNAV	210.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Departure with PNA
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Entire track is fly-able

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
PNA Import from RDVA-Pro: KDEN PNA APUUU EPKEE

Total Number of DMEs Used: 3

Maximum DME Error: 0.934 NM

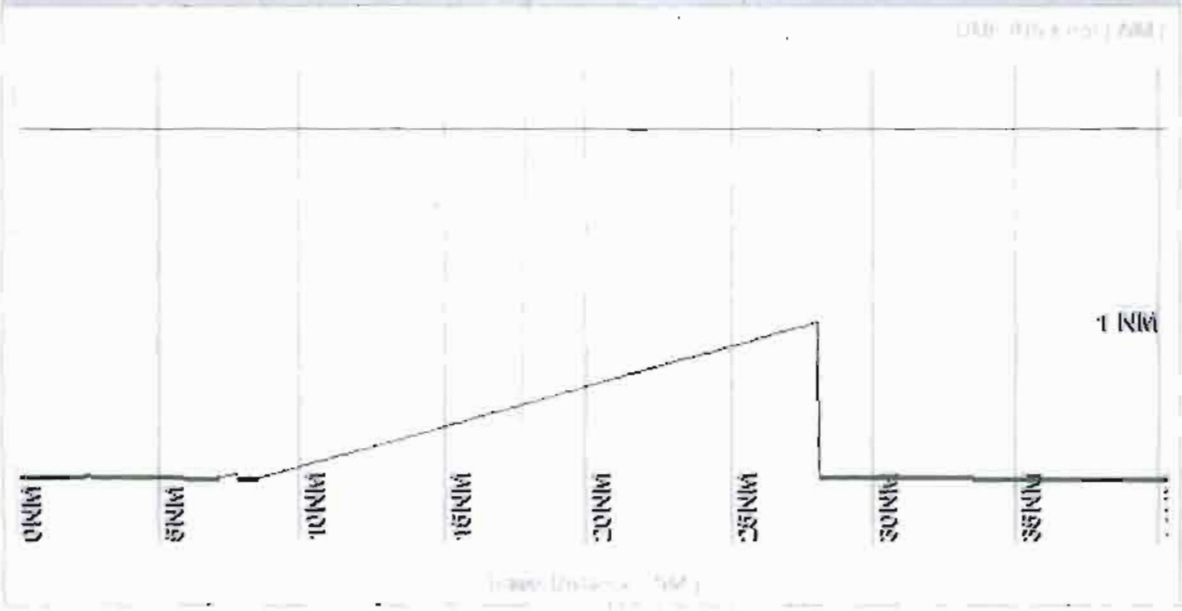
No Critical DMEs were found

Available DMEs: DVV, HGO, DEN, FQF, TXC, AKO

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H + ESV	User	NO	1.691	Enabled	49.8 %	49.7 %
2	TXC	N 39° 41' 53.94" W 103° 12' 53.78" E 12	L	Database	NO	0.934	Enabled	36.7 %	36.6 %
3	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	0.951	Enabled	13.1 %	13.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	HGO	TXC	FQF	DEN	DVV	
7.2	HGO	TXC	FQF	DEN	DVV	
12.8	DVV	DEN	FQF			
17.9	DVV	DEN	FQF			
21.1	DVV	DEN	FQF	HGO	TXC	
31.3	DVV	AKO	FQF	HGO	TXC	DEN

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 46' 13.14" W 103° 59' 52.86"	N 39° 46' 46.51" W 104° 0' 10.21"	0.6

VOR: BVR	Available from N 39° 46' 13.14" W 103° 59' 52.86" to N 39° 46' 46.51" W 104° 0' 10.21"
VOR: DEN	Available from N 39° 46' 13.14" W 103° 59' 52.86" to N 39° 46' 46.51" W 104° 0' 10.21"
VOR: DVV	Available from N 39° 46' 13.14" W 103° 59' 52.86" to N 39° 46' 46.51" W 104° 0' 10.21"
VOR: FQF	Available from N 39° 46' 13.14" W 103° 59' 52.86" to N 39° 46' 46.51" W 104° 0' 10.21"
VOR: TXC	Available from N 39° 46' 13.14" W 103° 59' 52.86" to N 39° 46' 46.51" W 104° 0' 10.21"

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 39° 47' 20.15" W 104° 0' 46.55"	N 39° 38' 4.17" W 104° 2' 25.58"	19.5
	VOR: BVR	Available from N 39° 47' 20.15" W 104° 0' 46.55" to N 39° 38' 4.17" W 104° 2' 25.58"	
	VOR: DEN	Available from N 39° 47' 20.15" W 104° 0' 46.55" to N 39° 38' 4.17" W 104° 2' 25.58"	
	VOR: DVV	Available from N 39° 47' 20.15" W 104° 0' 46.55" to N 39° 38' 4.17" W 104° 2' 25.58"	
	VOR: FQF	Available from N 39° 47' 20.15" W 104° 0' 46.55" to N 39° 38' 4.17" W 104° 2' 25.58"	
	VOR: TXC	Available from N 39° 47' 20.15" W 104° 0' 46.55" to N 39° 38' 4.17" W 104° 2' 25.58"	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Not Used
		FSV: Bearing [True]: 167.0° to 175.0°; Bearing [Mag]: 154.0° to 162.0°			Arc Distance: Out to 50.0 NM; Altitude: 7000.0 to 23000.0 Ft.		
		ESV: Bearing [True]: 150.0° to 167.0°; Bearing [Mag]: 137.0° to 154.0°			Arc Distance: Out to 52.0 NM; Altitude: 8000.0 to 23000.0 Ft.		
2	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Not Used
		ESV: Bearing [True]: 105.0° to 120.0°; Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM; Altitude: 14000.0 to 23000.0 Ft.		
3	AKO	N 40° 9' 19.99" W 103° 10' 46.98" E 13	H	4522.8	114.40	AKO	Not Used
		ESV: Bearing [True]: 155.0° to 230.0°; Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 85.0 NM; Altitude: 14000.0 to 30000.0 Ft.		
4	HLC	N 39° 15' 31.49" W 100° 13' 33.08" E 8	H	2690.0	113.70	HLC	Not Used
		ESV: Bearing [True]: 239.0° to 274.0°; Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM; Altitude: 14000.0 to 31000.0 Ft.		
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Used
		ESV: Bearing [True]: 40.0° to 70.0°; Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM; Altitude: 14000.0 to 31000.0 Ft.		
		ESV: Bearing [True]: 338.0° to 358.0°; Bearing [Mag]: 326.0° to 346.0°			Arc Distance: Out to 64.0 NM; Altitude: 14000.0 to 31000.0 Ft.		

DME/DME (Continued.)

Return To Summary

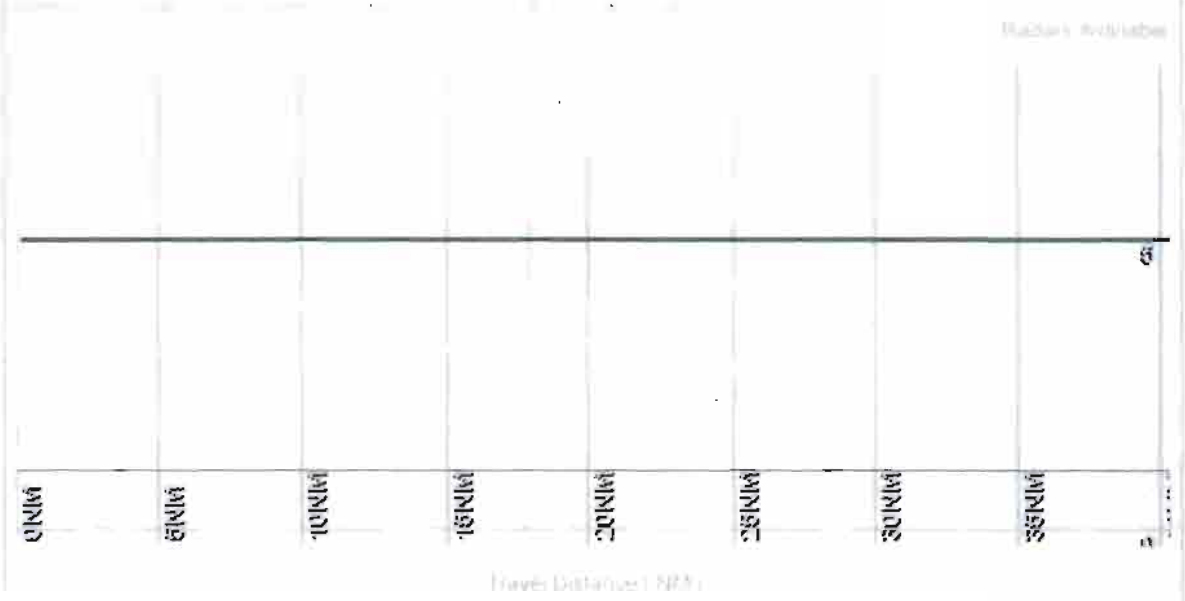
User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Not Used
	Restriction:	Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft.		
	ESV:	Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 90.0 NM Altitude: 14000.0 to 31000.0 Ft.		
7	HCT	N 40° 27' 14.62" W 100° 55' 24 86" E 11	H	3010.0	117.70	HCT	Not Used
	ESV:	Bearing [True]: 207.0° to 233.0° Bearing [Mag]: 196.0° to 222.0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft.		
8	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	5440.0	117.90	DEN	Not Used

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	Martha Dunn
Project Name:	KDEN
Output File:	KDEN EPKEE1 WEEDS GATTR 20120813_1445
Procedure Name:	EPKEE1
Software:	RNAV-Pro™
Version:	2.36v
Date/Time:	8/13/2012 2:45:48 PM
Input File:	EPKEE 5 1 WEEDS GATTR 20120813-EDITED.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔
DME/DME	✔
Radars	✔
Comms	
TERPS	

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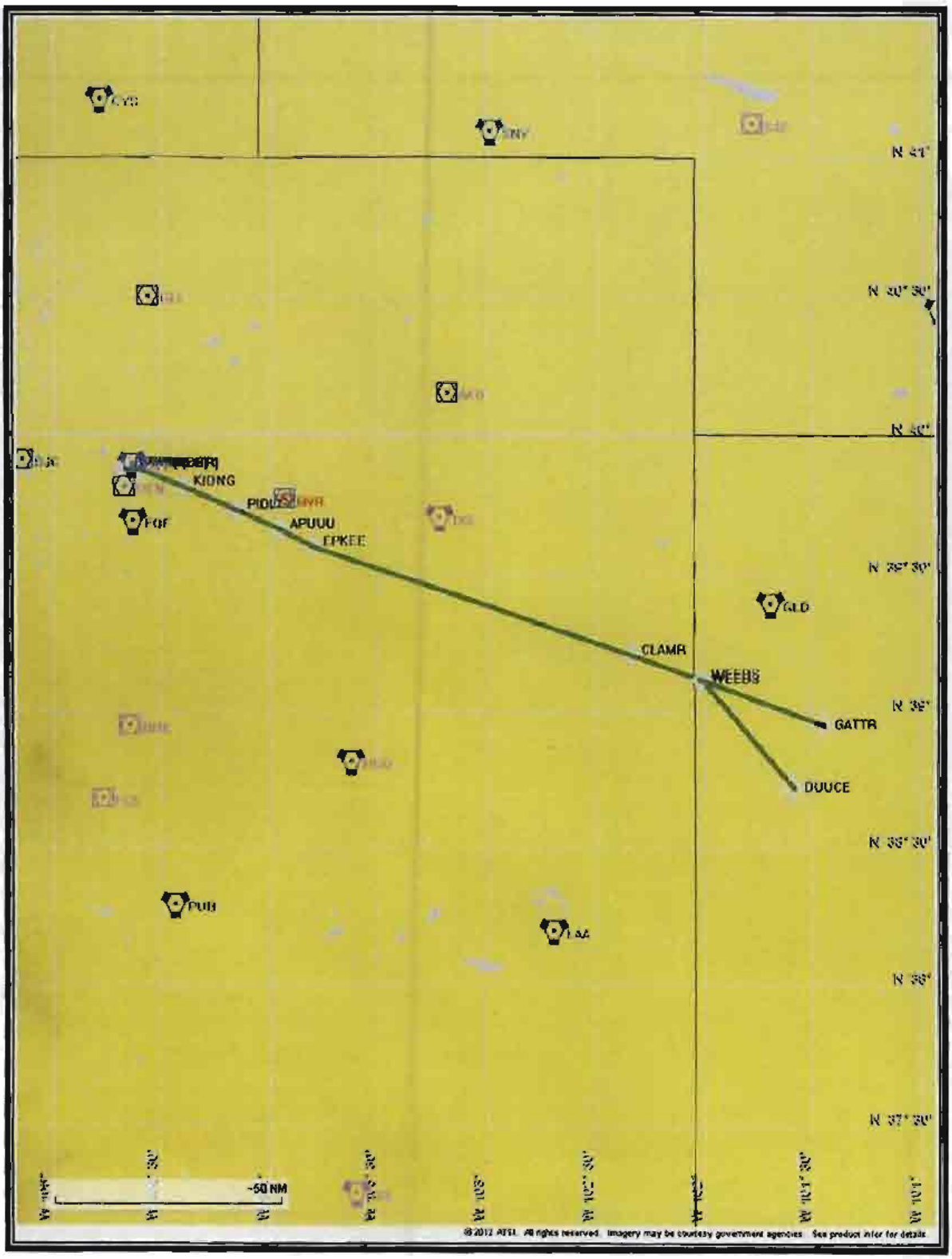
KIDNG
APUUU
EPKEE
CLAMR
WEEDS
GATTR
DUUCE
GLD
PUB
~50 NM
N 41°
N 40° 30'
N 40°
N 39° 30'
N 39°
N 38° 30'
N 38°
N 37° 30'
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
WEEDS	WP	N 39° 6' 43.27" W 102° 0' 46.77"	14000.0	Step	240.0	Fly By	TF
GATTR	WP	N 38° 56' 58.11" W 101° 26' 51.02"	14000.0	VNAV	240.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type:
Selected Airport: KDEN
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Entire track is fly-able

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
  Initial Drift: 0.558 NM
  INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3 0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 4

Maximum DME Error: 0.442 NM

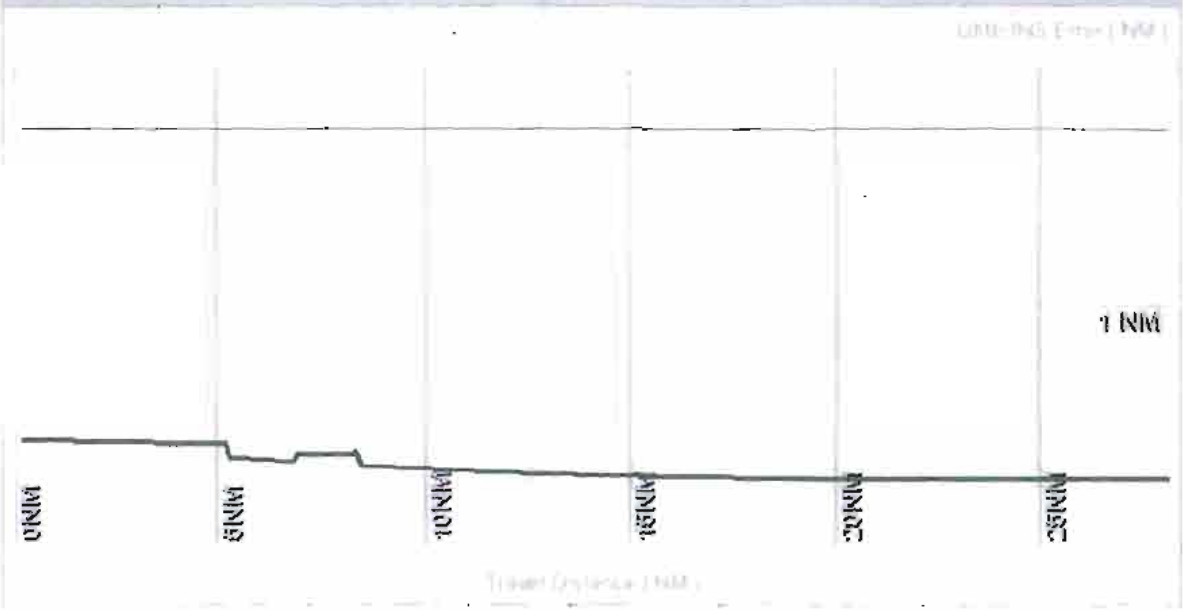
No Critical DMEs were found.

Available DMEs: HLC, HCT, GLD, GCK

Disabled DMEs: BVR

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H + ESV	User	NO	1.046	Enabled	94.6 %	94.5 %
2	HCT	N 40° 27' 14.62" W 100° 55' 24.86" E 11	H + ESV	User	NO	0.461	Enabled	24.1 %	23.9 %
3	GLD	N 39° 23' 16.30" W 101° 41' 32.30" E 12	H	Database	NO	1.066	Enabled	75.9 %	76.1 %
4	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H + ESV	User	NO	0.442	Enabled	5.4 %	5.4 %

Flight Check DME Selection

Distance [NM]	Selected DMEs				Alternate
0.0	HCT	HLC	GLD	GCK	

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Not Used
		ESV: Bearing [True]: 167.0° to 175.0° Bearing [Mag]: 154.0° to 162.0°			Arc Distance: Out to 50.0 NM Altitude: 7000.0 to 23000.0 Ft.		
		ESV: Bearing [True]: 150.0° to 167.0° Bearing [Mag]: 137.0° to 154.0°			Arc Distance: Out to 52.0 NM Altitude: 8000.0 to 23000.0 Ft.		
2	DVV	N 39° 53' 40.90" W 104° 37' 27.60" E 11	H	5270.0	114.70	DVV	Not Used
		ESV: Bearing [True]: 105.0° to 120.0° Bearing [Mag]: 94.0° to 109.0°			Arc Distance: Out to 70.0 NM Altitude: 14000.0 to 23000.0 Ft.		
3	AKO	N 40° 9' 19.99" W 103° 10' 46.96" E 13	H	4622.8	114.40	AKO	Not Used
		ESV: Bearing [True]: 155.0° to 230.0° Bearing [Mag]: 142.0° to 217.0°			Arc Distance: Out to 65.0 NM Altitude: 14000.0 to 30000.0 Ft		
4	HLC	N 39° 15' 31.49" W 100° 13' 33.06" E 8	H	2690.0	113.70	HLC	Used
		ESV: Bearing [True]: 239.0° to 274.0° Bearing [Mag]: 231.0° to 266.0°			Arc Distance: Out to 100.0 NM Altitude: 14000.0 to 31000.0 Ft.		

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
5	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	5233.0	112.10	HGO	Not Used
		ESV: Bearing [True]: 40.0° to 70.0° Bearing [Mag]: 28.0° to 58.0°			Arc Distance: Out to 82.0 NM Altitude: 14000.0 to 31000.0 Ft.		
		ESV: Bearing [True]: 338.0° to 358.0° Bearing [Mag]: 326.0° to 346.0°			Arc Distance: Out to 64.0 NM Altitude: 14000.0 to 31000.0 Ft.		
6	GCK	N 37° 55' 8.59" W 100° 43' 30.23" E 11	H	2876.6	113.30	GCK	Used
		Restriction: Bearing [True]: 326.0° to 346.0° Bearing [Mag]: 315.0° to 335.0°			Distance: Beyond 15.0 NM Altitude: Below 99999.0 Ft.		
		ESV: Bearing [True]: 310.0° to 325.0° Bearing [Mag]: 299.0° to 314.0°			Arc Distance: Out to 90.0 NM Altitude: 14000.0 to 31000.0 Ft.		
7	HCT	N 40° 27' 14.62" W 100° 55' 24.86" E 11	H	3010.0	117.70	HCT	Used
		ESV: Bearing [True]: 207.0° to 233.0° Bearing [Mag]: 196.0° to 222.0°			Arc Distance: Out to 120.0 NM Altitude: 14000.0 to 31000.0 Ft.		
8	DEN	N 39° 48' 45.00" W 104° 39' 38.70" E 11	H	5440.0	117.90	DEN	Not Used

?
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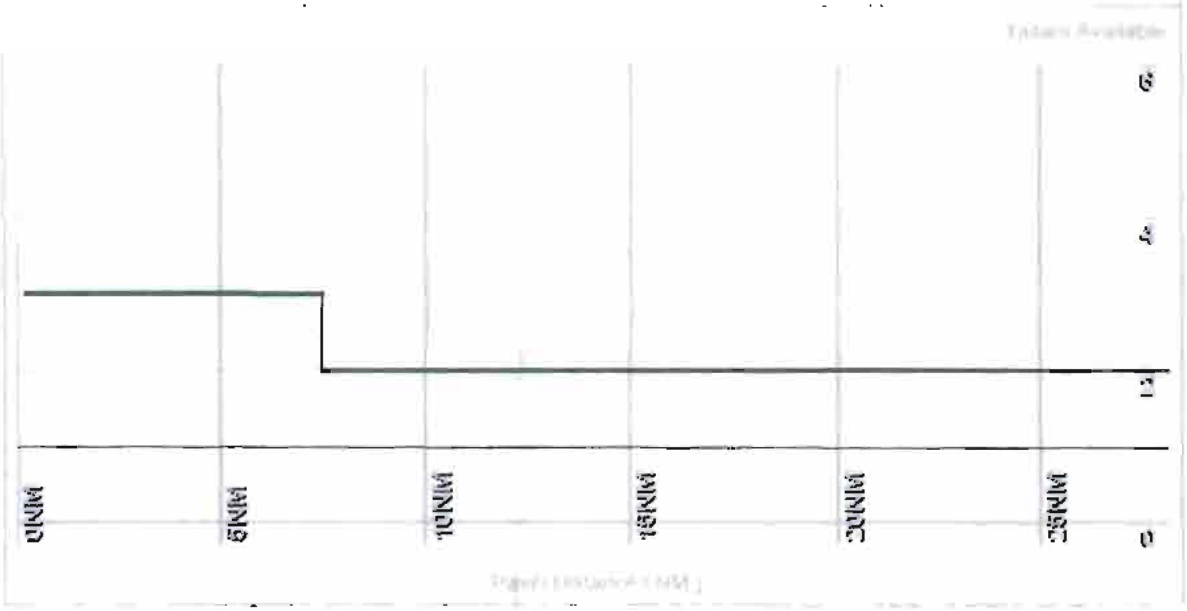
Radar Analysis

Return To Summary

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