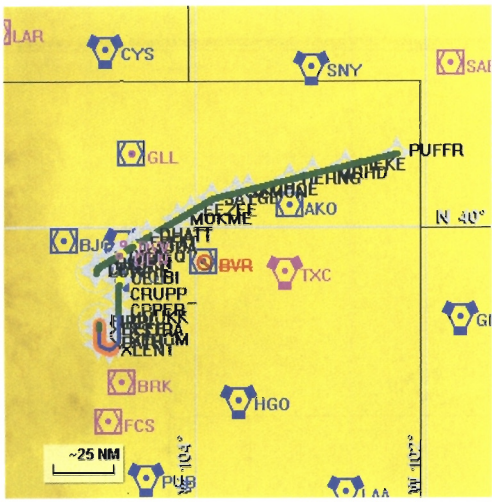

Name:	Martha Dunn
Project Name:	KAPA
Output File:	KAPA PUFFR1 STAR DHATT LOWRE 20120621_1209
Procedure Name:	KAPA PUFFR1
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/21/2012 12:09:32 PM
Input File:	KAPA PUFFR STAR DHATT LOWRE 20120612_1140.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	

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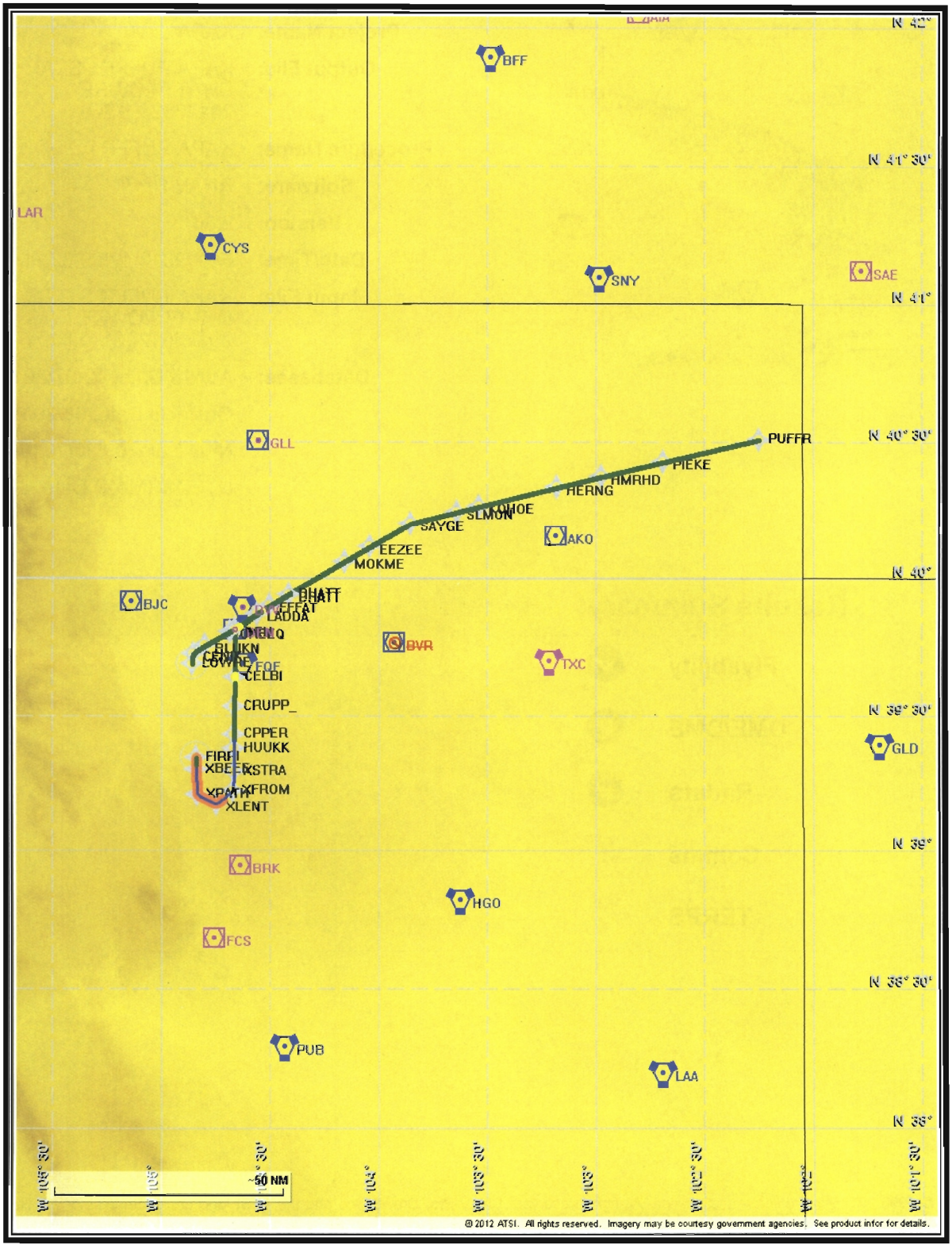
BFF
N 41° 30'
LAR
CYS
SNY
SAE
N 41°
GLL
PUFFR
N 40° 30'
PIEKE
HMRHD
HERNG
SLMON
SAYGE
AKO
EEZEE
MOKME
N 40°
BJC
DHATT
LADDA
BVR
TXC
CELBI
CRUPP_
N 39° 30'
CPPER
HUUKK
XSTRA
XFROM
XLENT
GLD
N 39°
BRK
HGO
FCS
N 38° 30'
PUB
LAA
N 38°
50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
DHATT	WP	N 39° 56' 24.36" W 104° 24' 49.66"	9100.0	Step	180.0	Fly By	TF
FFFAT	WP	N 39° 54' 1.30" W 104° 29' 57.17"	9100.0	Step	180.0	Fly By	TF
LADDA	WP	N 39° 52' 13.52" W 104° 33' 25.23"	9000.0	Step	180.0	Fly By	TF
CREEQ	WP	N 39° 48' 19.40" W 104° 40' 55.85"	9000.0	Step	180.0	Fly By	TF
BLUKN	WP	N 39° 45' 17.34" W 104° 47' 51.13"	9000.0	Step	180.0	Fly By	TF
CENIK	WP	N 39° 43' 31.50" W 104° 51' 15.06"	8500.0	Step	180.0	Fly By	TF
LOWRE	WP	N 39° 41' 19.79" W 104° 51' 22.76"	7800.0	Step	180.0	Fly Over	TF

Flyability	Return To Summary
Settings:	**Flight Type:** Arrival **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: 5

Maximum DME Error: 0.298 NM.

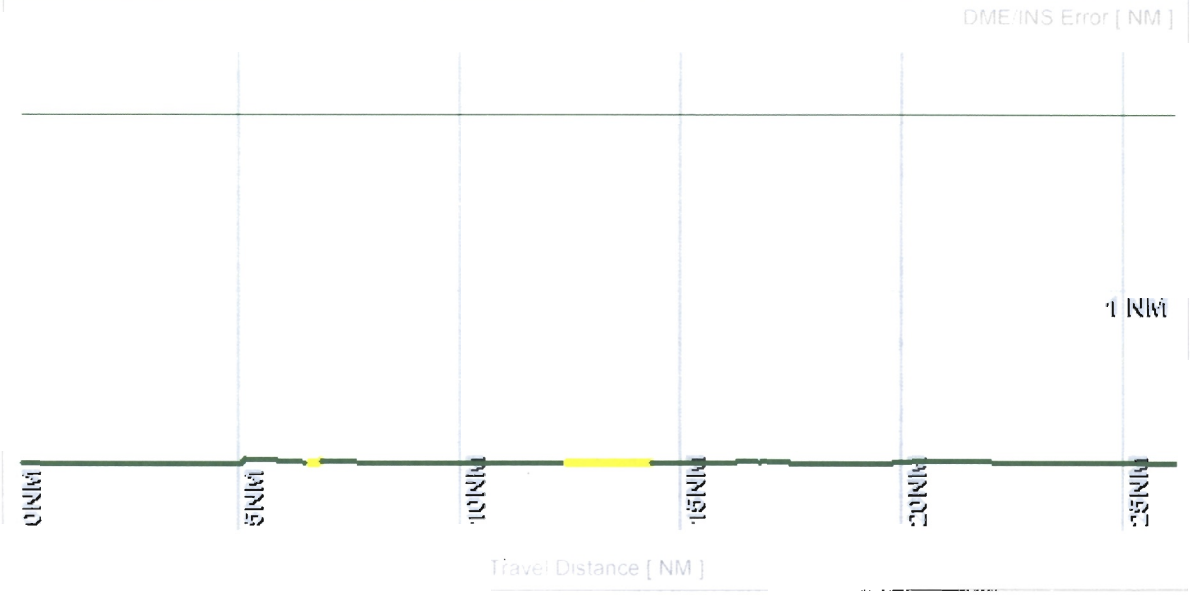
No Critical DMEs were found.

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

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' 40.88" W 104° 37' 27.61" E 8	H	User	NO	0.384	Enabled	65.9 %	65.8 %
2	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H + ESV	User	NO	0.341	Enabled	35.8 %	35.7 %
3	BJC	N 39° 54' 46.87" W 105° 8' 20.47" E 11	H	Database	NO	0.634	Enabled	64.6 %	64.7 %
4	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	0.480	Enabled	32.8 %	32.9 %
5	DEN	N 39° 48' 45.05" W 104° 39' 38.66" E 8	H	User	NO	0.298	Enabled	0.8 %	0.9 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	GLL	DVV	BJC	FQF	DEN	
4.4	GLL	DVV	BJC	FQF	DEN	
7.8	GLL	DVV	BJC	FQF	DEN	
14.6	GLL	DVV	BJC	FQF	DEN	
20.7	DEN	DVV	BJC	FQF		
23.3	DEN	DVV	BJC	FQF		

User DMEs

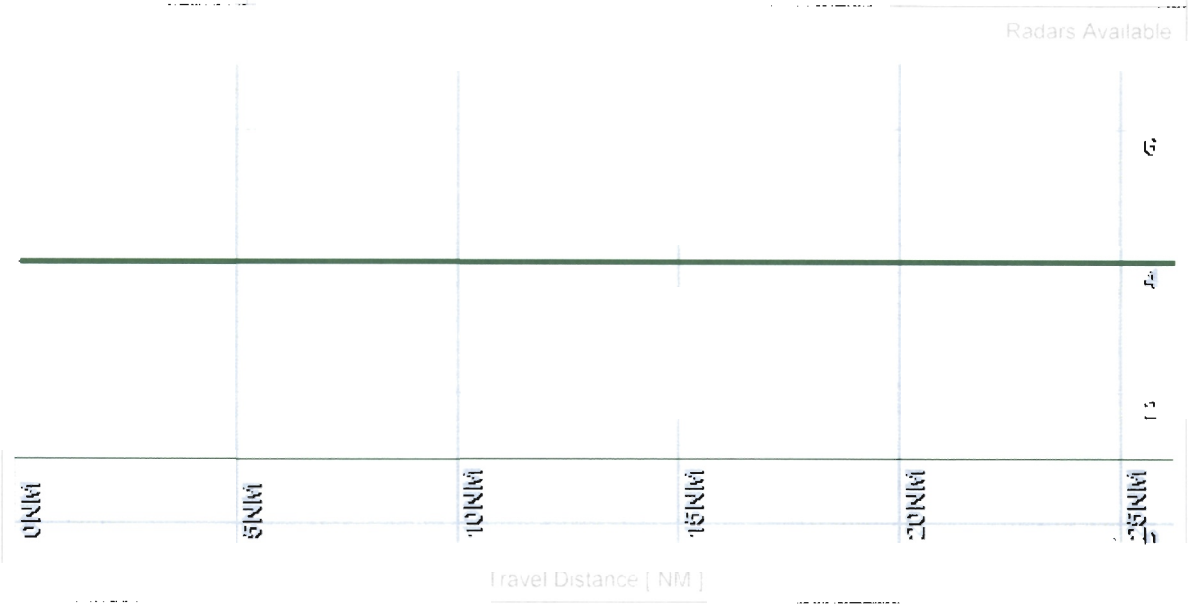
#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	DVV	N 39° 53' 40.88" W 104° 37' 27.61" E 8	H	5278.6	114.70	DVV	Used
2	DEN	N 39° 48' 45.05" W 104° 39' 38.66" E 8	H	5452.1	117.90	DEN	Used
3	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Used

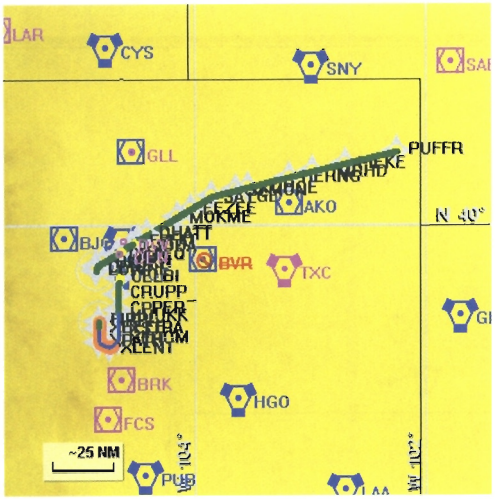
ESV: Bearing [True]: 179.0° to 196.0°
Bearing [Mag]: 166.0° to 183.0°
Arc Distance: Out to 65.0 NM
Altitude: 9000.0 to 20000.0 Ft.

Radar Analysis

Return To Summary

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





Name:	Martha Dunn
Project Name:	KAPA
Output File:	KAPA PUFFR1 STAR PUFFR FIRPI 20120621_1208
Procedure Name:	KAPA PUFFR1
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	6/21/2012 12:08:21 PM
Input File:	KAPA PUFFR STAR PUFFR FIRPI 20120612_1128.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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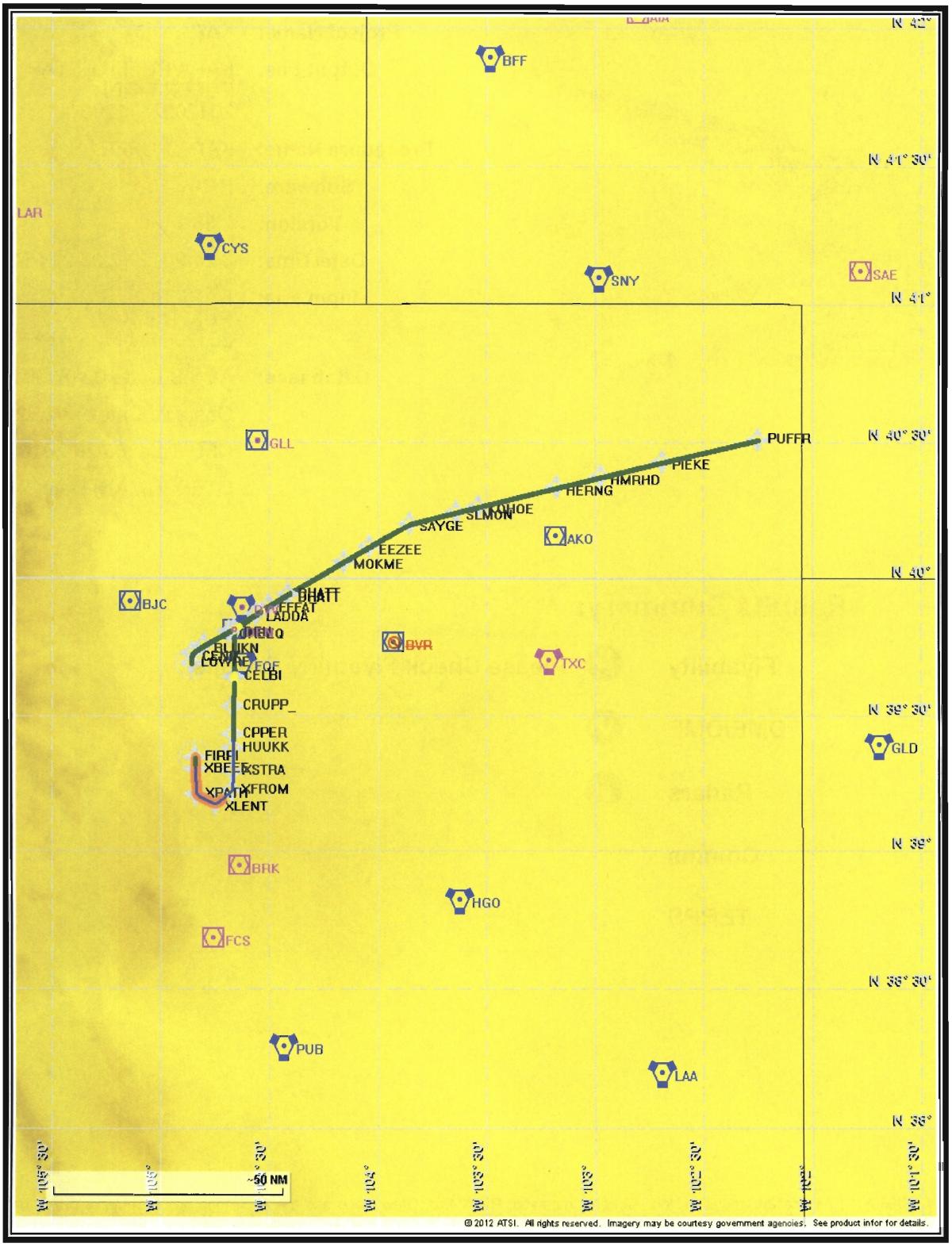
BFF
N 42°
N 41° 30'
LAR
CYS
SNY
SAE
N 41°
GLL
PUFFR
N 40° 30'
PIEKE
HMRHD
HERNG
SLMON
SAYGE
AKO
EEZEE
MOKME
N 40°
BJC
BHATT
LADDA
BVR
TXC
CELBI
CRUPP_
N 39° 30'
CPPER
HUUKK
GLD
FIRPI
XBEEK
XSTRA
XFROM
XLENT
N 39°
BRK
HGO
FCS
N 38° 30'
PUB
LAA
N 38°
50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
PUFFR	WP	N 40° 30' 25.20" W 102° 14' 56.82"	21000.0	Step	240.0	Fly By	TF
PIEKE	WP	N 40° 25' 30.63" W 102° 41' 24.22"	21000.0	Step	240.0	Fly By	TF
HMRHD	WP	N 40° 22' 18.54" W 102° 58' 20.63"	21000.0	Step	240.0	Fly By	TF
HERNG	WP	N 40° 19' 58.35" W 103° 10' 33.15"	21000.0	Step	240.0	Fly By	TF
KOHOE	WP	N 40° 15' 47.07" W 103° 32' 7.29"	21000.0	Step	240.0	Fly By	TF
SLMON	WP	N 40° 14' 32.54" W 103° 38' 26.68"	21000.0	Step	240.0	Fly By	TF
SAYGE	WP	N 40° 12' 2.15" W 103° 51' 4.99"	20000.0	Step	210.0	Fly By	TF
EEZEE	WP	N 40° 6' 52.57" W 104° 2' 15.52"	9100.0	Step	180.0	Fly By	TF
MOKME	WP	N 40° 3' 38.56" W 104° 9' 13.68"	9100.0	Step	180.0	Fly By	TF
DHATT	WP	N 39° 56' 24.36" W 104° 24' 49.66"	9100.0	Step	180.0	Fly By	TF
FFFAT	WP	N 39° 54' 1.30" W 104° 29' 57.17"	9100.0	Step	180.0	Fly By	TF
DEN	WP	N 39° 48' 45.05" W 104° 39' 38.66"	9100.0	Step	180.0	Fly By	TF
CELBI	WP	N 39° 38' 29.55" W 104° 39' 46.04"	9100.0	Step	180.0	Fly By	TF
CRUPP_	WP	N 39° 32' 5.28" W 104° 39' 50.60"	9100.0	Step	180.0	Fly By	TF
CPPER	WP	N 39° 25' 36.59" W 104° 39' 55.22"	9100.0	Step	180.0	Fly By	TF
HUUKK	WP	N 39° 22' 29.63" W 104° 39' 58.81"	9100.0	Step	180.0	Fly By	TF
XSTRA	WP	N 39° 17' 25.82" W 104° 40' 3.21"	9100.0	Step	180.0	Fly By	TF
XFROM	WP	N 39° 13' 19.01" W 104° 40' 6.57"	9100.0	Step	180.0	Fly By	TF

Flight Plan (Continued.)

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
XLENT	WP	N 39° 10' 15.80" W 104° 44' 45.48"	9100.0	Step	180.0	Fly By	TF
XPATH	WP	N 39° 12' 21.19" W 104° 50' 5.46"	9100.0	Step	180.0	Fly By	TF
XBEEE	WP	N 39° 17' 47.21" W 104° 50' 18.72"	9000.0	Step	180.0	Fly By	TF
FIRPI	WP	N 39° 20' 42.01" W 104° 50' 25.60"	9000.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
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

Aircraft ALTITUDE at Fly-By WP EEZEE too high.

Aircraft ALTITUDE at Fly-By WP MOKME too high.

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: 13

Maximum DME Error: 1.470 NM.

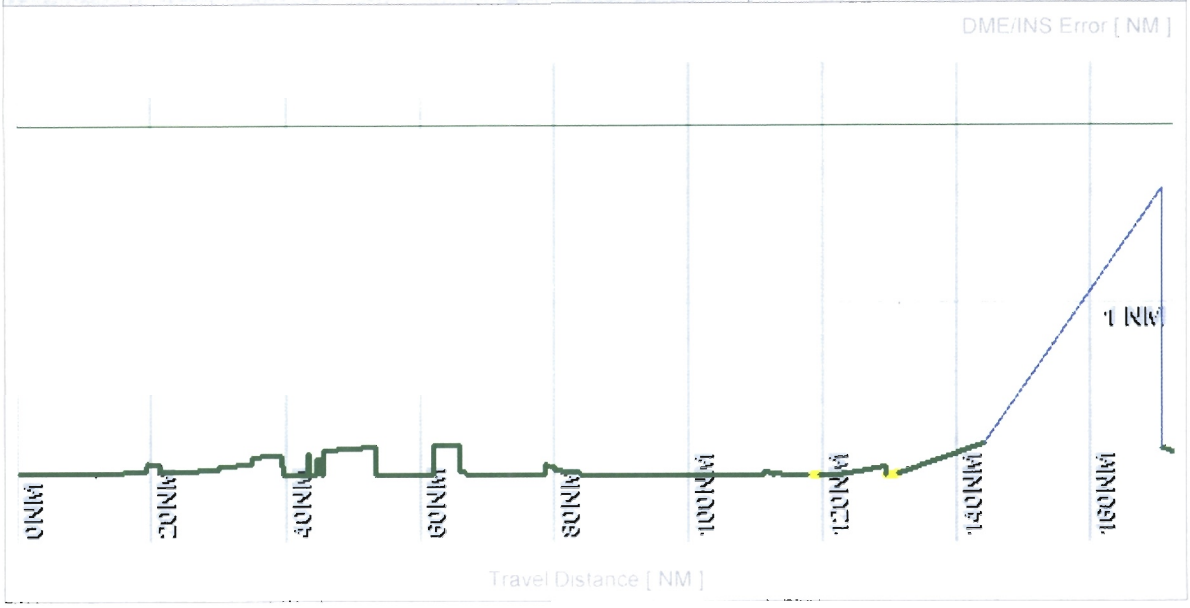
1 Critical DME was found.

Available DMEs: AKO, GLD, HCT, HLC, MCK, SNY, GLL, BFF, DVV, DEN, FQF, CYS, HGO, BJC

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	AKO	N 40° 9' 19.99" W 103° 10' 46.96" E 13	H	Database	NO	1.470	Enabled	17.6 %	20.0 %
2	GLD	N 39° 23' 16.30" W 101° 41' 32.30" E 12	H	Database	NO	1.470	Enabled	14.2 %	16.1 %
3	SNY	N 41° 5' 48.00" W 102° 58' 58.80" E 13	H	Database	NO	1.470	Enabled	18.8 %	21.5 %
4	DEN	N 39° 48' 45.05" W 104° 39' 38.66" E 8	H	User	NO	1.470	Enabled	5.5 %	5.7 %
5	DVV	N 39° 53' 40.88" W 104° 37' 27.61" E 8	H	User	NO	1.470	Enabled	19.7 %	17.7 %
6	HCT	N 40° 27' 14.62" W 100° 55' 24.86" E 11	H	Database	NO	1.470	Enabled	8.7 %	10.0 %
7	MCK	N 40° 12' 13.67" W 100° 35' 39.21" E 8	H	Database	NO	1.470	Enabled	2.5 %	2.9 %
8	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H + ESV	User	NO	1.470	Enabled	30.9 %	31.5 %
9	BFF	N 41° 53' 38.98" W 103° 28' 55.28" E 13	H	Database	NO	1.470	Enabled	4.0 %	4.5 %
10	HGO	N 38° 49' 3.00" W 103° 37' 17.00" E 12	H	Database	NO	1.470	Enabled	1.9 %	2.2 %
11	CYS	N 41° 12' 39.47" W 104° 46' 22.49" E 13	H	Database	NO	1.470	Enabled	0.5 %	0.6 %
12	FQF	N 39° 41' 24.50" W 104° 37' 15.50" E 11	H	Database	NO	1.497	Enabled	18.5 %	16.9 %
13	BJC	N 39° 54' 46.87" W 105° 8' 20.47" E 11	H	Database	YES	**2.274**	Enabled	22.2 %	19.5 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	AKO	GLD	DVV	SNY	DEN	MCK
20.7	AKO	GLD	DVV	SNY	HCT	BFF
34.1	AKO	GLL	MCK	SNY	HCT	GLD
43.7	AKO	GLL	BFF	SNY	HCT	DVV
60.7	AKO	HGO	CYS	SNY	HCT	DVV
65.7	GLL	HGO	CYS	SNY	FQF	DVV
75.0	GLL	DVV	DEN	SNY	FQF	AKO
85.7	GLL	DVV	DEN	FQF		
92.0	GLL	DVV	DEN	FQF	BJC	
106.0	GLL	DVV	DEN	FQF	BJC	

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
110.4	GLL	DVV	DEN	FQF	BJC	
118.9	GLL	DVV	DEN	FQF	BJC	
129.9	GLL	DVV	DEN	FQF	BJC	
136.2	GLL	DVV	DEN	FQF	BJC	
142.7	BJC	DVV	DEN	FQF		
145.9	FQF	DVV	DEN			
150.9	FQF	DVV	DEN			
154.2	FQF	DVV	DEN			
158.6	FQF					
163.1	FQF	DEN	DVV			
169.4	FQF	DEN	DVV	BJC		

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 24' 20.14" W 104° 39' 56.63"	N 39° 18' 49.26" W 104° 50' 21.11"	26.4
	VOR: BJC	Available from N 39° 24' 20.14" W 104° 39' 56.63" to N 39° 18' 49.26" W 104° 50' 21.11"	
	VOR: BRK	Available from N 39° 24' 20.14" W 104° 39' 56.63" to N 39° 18' 49.26" W 104° 50' 21.11"	
	VOR: DEN	Available from N 39° 24' 20.14" W 104° 39' 56.63" to N 39° 18' 49.26" W 104° 50' 21.11"	
	VOR: DVV	Available from N 39° 24' 20.14" W 104° 39' 56.63" to N 39° 18' 49.26" W 104° 50' 21.11"	
	VOR: FQF	Available from N 39° 24' 20.14" W 104° 39' 56.63" to N 39° 18' 49.26" W 104° 50' 21.11"	
	VOR: FCS	Available from N 39° 20' 36.63" W 104° 40' 0.52" to N 39° 18' 49.26" W 104° 50' 21.11"	

DME/DME (Continued.)

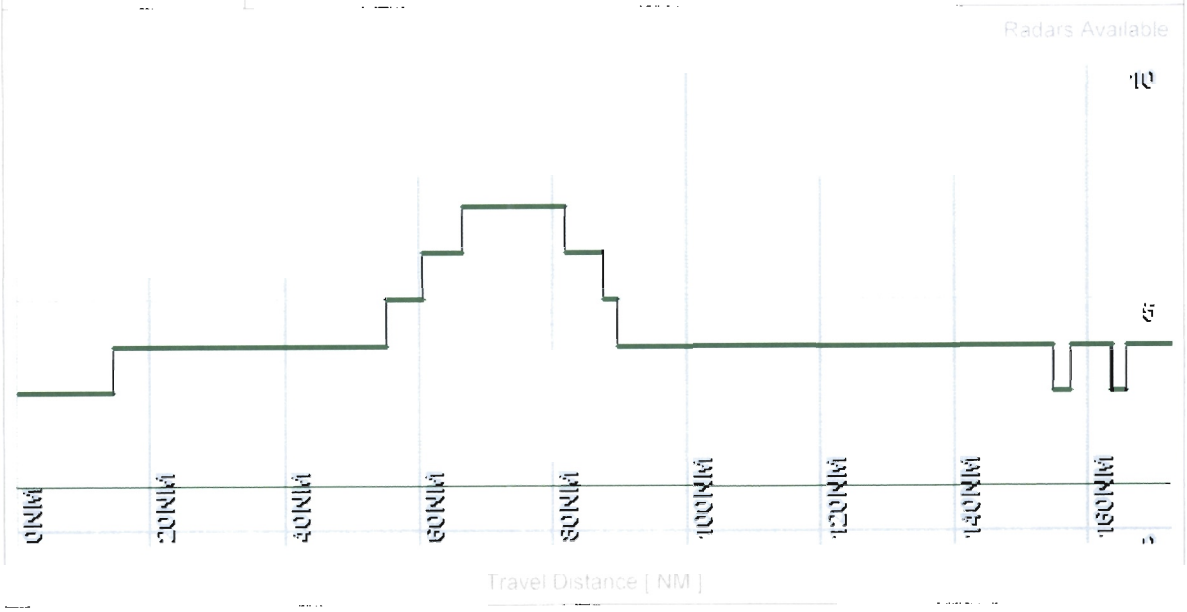
Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	DVV	N 39° 53' 40.88" W 104° 37' 27.61" E 8	H	5278.6	114.70	DVV	Used
2	DEN	N 39° 48' 45.05" W 104° 39' 38.66" E 8	H	5452.1	117.90	DEN	Used
3	GLL	N 40° 30' 13.93" W 104° 33' 10.86" E 13	H	4900.0	114.20	GLL	Used

ESV: Bearing [True]: 179.0° to 196.0°
Bearing [Mag]: 166.0° to 183.0°
Arc Distance: Out to 65.0 NM
Altitude: 9000.0 to 20000.0 Ft.

Radar Analysis

Return To Summary

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