

OBSTRUCTION DATA SHEET

ODS 367
MATHIS FIELD
SAN ANGELO, TEXAS

DIGITIZED FROM

OC 367
SURVEYED DECEMBER 1992
12TH EDITION

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD 29



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OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA No. 405, "Specifications - Airport Obstruction Chart and Related Products".

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS and the OC depict a representation of objects that existed at the time of the OC field survey.

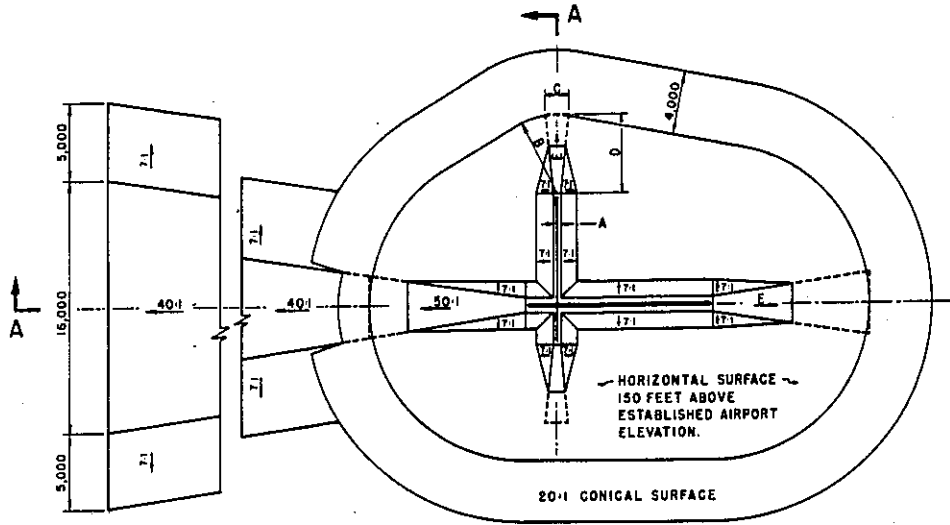
ODS information is arranged as follows:

1. Objects located in an FAR-77 approach or primary and listed with the associated runway (reference runway).
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

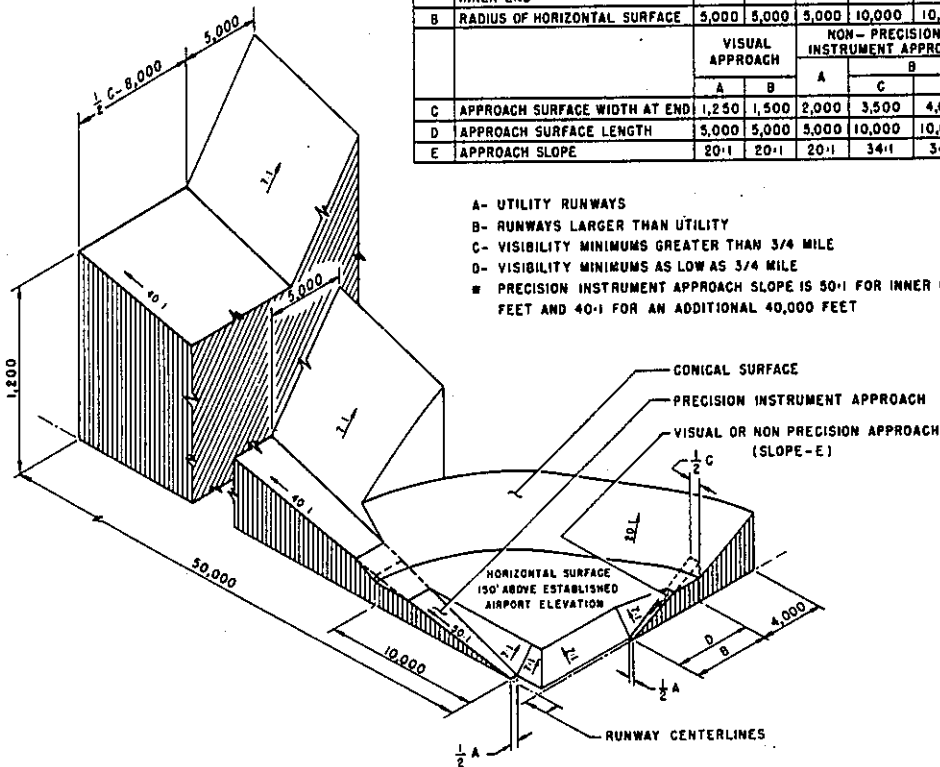
- A(V) Utility runway - visual approach only
- A(NP) ... Utility runway - nonprecision instrument approach
- B(V) Nonutility runway - visual approach only
- C Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
- D Nonutility runway - nonprecision instrument approach with visibility minimums as low as 3/4 mile
- PIR Precision instrument runway
- SUPLC . Supplemental C underlying a B(V)

FAR-77 imaginary surface dimensions are defined on page 2 of this report.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

- A- UTILITY RUNWAYS
- B- RUNWAYS LARGER THAN UTILITY
- C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
- D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
- * PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

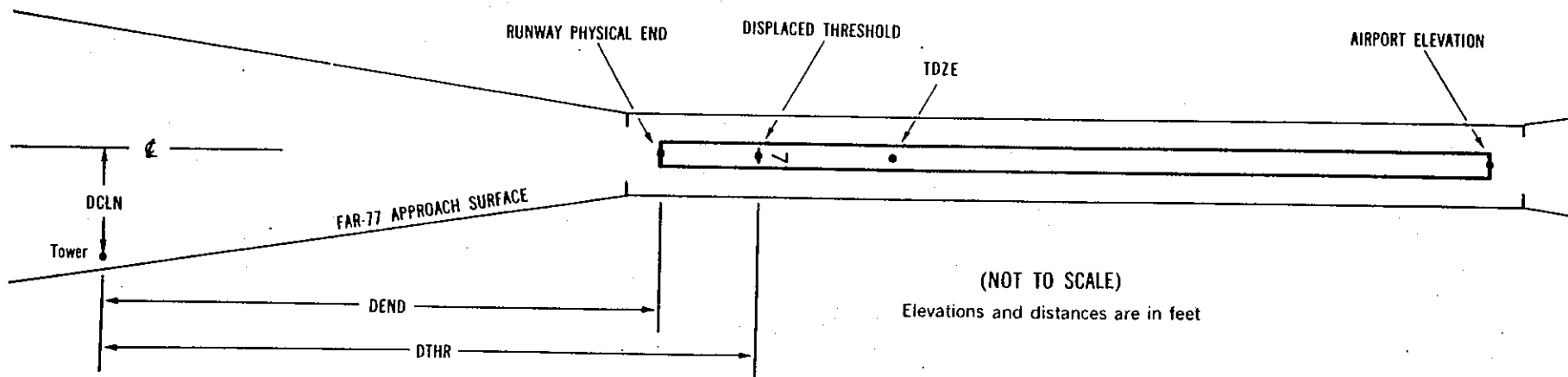
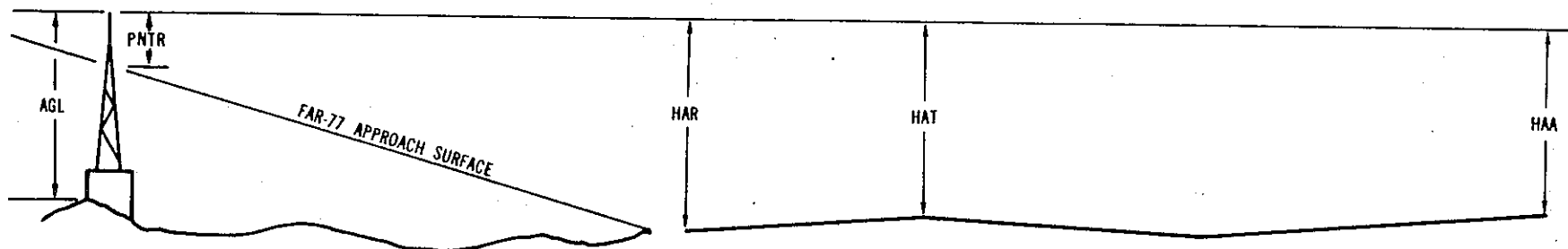
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X ¹	X ²	XXXX/XXXX ³	XXXXXX.XXX ⁴	XXXXXXX.XXX ⁴	XXXXXXX ⁵	XXXX/XXXX ⁶	XXXXXX.XXX ⁷	XXXXXXX.XXX ⁷				
OBJECT	LAT	LONG	A ⁸	ELEV ⁹	AGL ¹⁰	HAR ¹¹	HAT ¹¹	HAA ¹¹	DEND ¹²	DTHR ¹²	DCLN ¹²	PNTR ¹³
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXXX	XXXX
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXXX	XXXX



EXPLANATION OF FOOTNOTES

- 1 Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary areas of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.
- 2 For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed).
- 3 Elevation at approach end of reference runway/touchdown zone elevation
- 4 Latitude and longitude at approach end of reference runway
- 5 Geodetic azimuth of reference runway reckoned from north
- 6 Elevation at reference runway displaced threshold/touchdown zone elevation
- 7 Latitude and longitude at reference runway displaced threshold
- 8 Accuracy codes:
- | | Horizontal (Ft.) | Vertical (Ft.) |
|--|------------------|----------------|
| | 1 = 20 | A = 2 |
| | 2 = 40 | B = 5 |
| | | C = 20 |
- 9 Elevation above mean sea level (MSL) at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.
- 10 Height above ground level (AGL). AGL's are provided only for manmade objects appearing on the OC and equal to or greater than 200 feet AGL. AGL accuracy is 10 feet.
- 11 HAA - Height above airport
 HAR - Height above approach end of reference runway
 HAT - Height above reference runway touchdown zone elevation
- 12 DEND - Distance along reference runway centerline from point nearest to object (perpendicular) to approach end of runway
 DTHR - Distance along reference runway centerline from point nearest to object (perpendicular) to displaced threshold
 DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft
- A negative value for DEND or DTHR indicates that object is in primary on roll-out side of zero distance point.
- 13 PNTR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

OC0367

AIRPORT ELEVATION 1916

3 PIR 1916/1916 312058.901 -1002959.514 430919.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE	312139.62	-1002907.17	1A	1893		-23	-23	-23	-6106		497R	0
FENCE	312137.18	-1002909.82	1A	1898		-18	-18	-18	-5768		497R	3
ROD ON OL AMOM	312103.44	-1002946.66	1A	1948		32	32	32	-1097		499R	34
ROD ON OL TMOM	312103.60	-1002947.30	1A	1930		14	14	14	-1071		448R	16
ROD ON OL GS	312103.42	-1002948.26	1A	1949		33	33	33	-1000		400R	35
FENCE	312053.84	-1002957.10	1A	1920		4	4	4	230		502R	3
ROAD (N)	312056.04	-1003012.06	1A	1930		14	14	14	955		596L	-1
ROAD (N)	312047.23	-1003012.24	1A	1933		17	17	17	1616		2R	-11
POLE	312050.08	-1003017.05	1A	1945		29	29	29	1690		499L	-1
TREE	312043.23	-1003011.63	1A	1954		38	38	38	1874		316R	5
POLE	312030.58	-1003045.75	1A	2008		92	92	92	4829		968L	-1
POLE	312027.59	-1003051.32	1A	2019		103	103	103	5381		1114L	-1
POLE	312007.01	-1003035.71	1A	2026		110	110	110	5971		1296R	-5

21 D 1892/1906 312141.775 -1002912.666 2230944.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GS	312103.42	-1002948.26	1A	1949		57	43	33	-4938		400L	35
ROD ON OL TMOM	312103.60	-1002947.30	1A	1930		38	24	14	-4867		448L	16
ROD ON OL AMOM	312103.44	-1002946.66	1A	1948		56	42	32	-4842		499L	34
FENCE	312137.18	-1002909.82	1A	1898		6	-8	-18	-170		497L	3
FENCE	312139.62	-1002907.17	1A	1893		1	-13	-23	167		497L	0
OL ON LOC	312149.00	-1002904.77	1A	1890		-2	-16	-26	1000		0R	-26
OL ON DME	312151.15	-1002907.25	1A	1902		10	-4	-14	1012		306R	-14
POLE	312155.23	-1002908.33	1A	1905		13	-1	-11	1249		656R	-18
POLE	312147.38	-1002858.56	1A	1904		12	-2	-12	1250		505L	-19

OC0367

AIRPORT ELEVATION 1916

36 SUPLC 1916/1916 312059.627 -1003001.195 71830.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	312046.89	-1002958.52	1A	1945		29	29	29	1247		393R	-1
POLE	312037.70	-1003002.34	1A	1961		45	45	45	2210		184R	-14
POLE	312037.73	-1003005.81	1A	1966		50	50	50	2245		115L	-10

18 SUPLC 1896/ 312207.550 -1002951.043 1871835. 1897/1906 312205.884 -1002951.292

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	312211.16	-1002953.47	1A	1902		6	-4	-14	335	504	255R	2
TREE	312213.39	-1002952.32	1A	1903		7	-3	-13	572	741	185R	-4
ROAD (N)	312213.37	-1002950.07	1A	1903		7	-3	-13	594	764	9L	-5
POLE	312217.37	-1002953.45	1A	1904		8	-2	-12	958	1128	333R	-15
TREE	312219.62	-1002946.76	1A	1911		15	5	-5	1257	1427	213L	-16
ANT	312223.12	-1002945.44	1A	1921		25	15	5	1622	1792	282L	-17

9 AV 1902/1905 312140.441 -1003007.401 972903.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	312141.19	-1003013.44	1A	1915		13	10	-1	529		7L	-3
TREE	312139.63	-1003013.74	1A	1933		31	28	17	534		153R	15
TREE	312140.75	-1003016.54	1A	1924		22	19	8	790		72R	-7
LT POLE	312141.17	-1003021.11	1A	1931		29	26	15	1188		82R	-20

OC0367

AIRPORT ELEVATION 1916

27 AV 1898/1904 312134.765 -1002917.080 2772929.

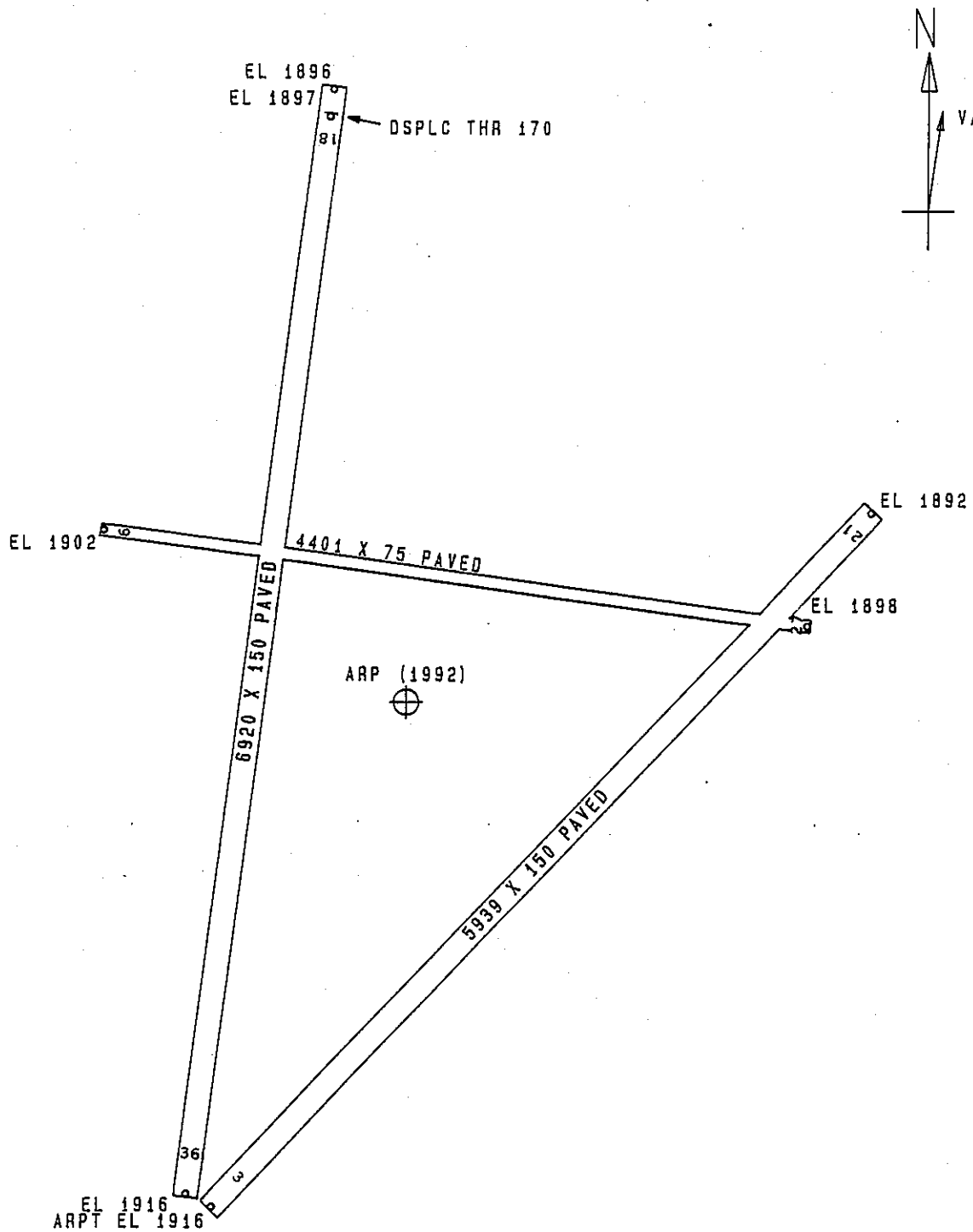
OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE	312133.95	-1002909.84	1A	1903		5	-1	-13	633		OR	-16
TREE	312135.21	-1002908.51	1A	1913		15	9	-3	731		141R	-11

OC0367

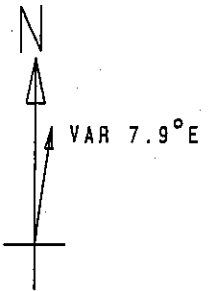
AIRPORT ELEVATION 1916

ARP 312130.053 -1002945.689

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
ANT AND APBN ON ATCT	312127.91	-1003010.47	1A	2004		88	25620	2159
ROD ON OL DOME	312122.45	-1003011.60	1A	1989		73	24313	2374
ANT ON OL RTR	312107.57	-1002935.21	1A	1963		47	15018	2447
TREE	312138.48	-1003013.34	1A	1929		13	28138	2544
OL ON ELEC EQUIP	312155.42	-1002948.25	1A	1905		-11	34709	2573
TREE	312143.39	-1003013.24	1A	1930		14	29132	2743
ANT ON OL TANK	312128.24	-1003019.50	1A	2039		123	25831	2937
LT POLE	312139.33	-1003019.70	1A	1931		15	27944	3094
LT ON HANGAR	312110.36	-1003013.04	1A	1954		38	22205	3096
ROD ON OL TMOM	312059.29	-1002949.83	1A	1930		14	17841	3129
FENCE	312135.73	-1002909.83	1A	1900		-16	7139	3161
HANGAR	312058.58	-1003012.10	1A	1934		18	20751	3919
POLE	312156.89	-1002910.40	1A	1916		0	4032	4088
TREE	312049.42	-1002956.38	1A	1950		34	18449	4209
POLE	312051.67	-1003019.11	1A	1946		30	20852	4841
ROD ON OL ASR	312032.11	-1002931.64	1A	2021		105	16020	5979



EL 1896
 EL 1897
 DSPLC THR 170



EL 1902
 EL 1892
 EL 1898
 ARP (1992)
 6920 X 150 PAVED
 4401 X 75 PAVED
 5939 X 150 PAVED
 EL 1916
 ARPT EL 1916

TOUCHDOWN ZONE RUNWAY ELEVATION	
3	1916
21	1906
36	1916
18	1906
9	1905
27	1904

MATHIS FIELD
 SAN ANGELO, TEXAS
 (NOT TO SCALE)
 (ELEVATIONS AND DISTANCES IN FEET)