

# OBSTRUCTION DATA SHEET

ODS 5152  
HUTCHINSON COUNTY AIRPORT  
BORGER, TEXAS

DIGITIZED FROM

OC 5152  
SURVEYED DECEMBER 1987  
7TH EDITION



PREPARED AND DISTRIBUTED BY  
THE NATIONAL OCEAN SERVICE  
U.S. DEPARTMENT OF COMMERCE  
FOR THE FEDERAL AVIATION ADMINISTRATION

## 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 Nr. 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 OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

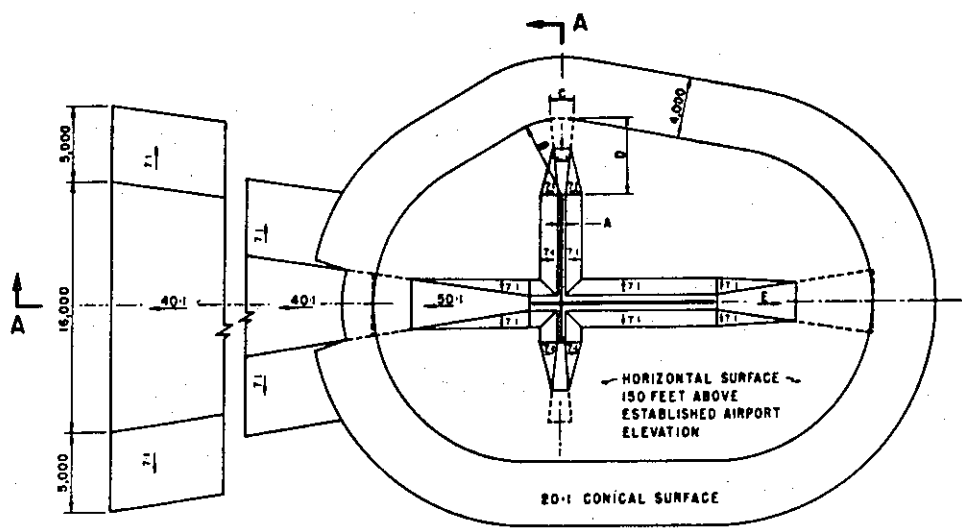
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)
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 (see footnote 2 on page 3):

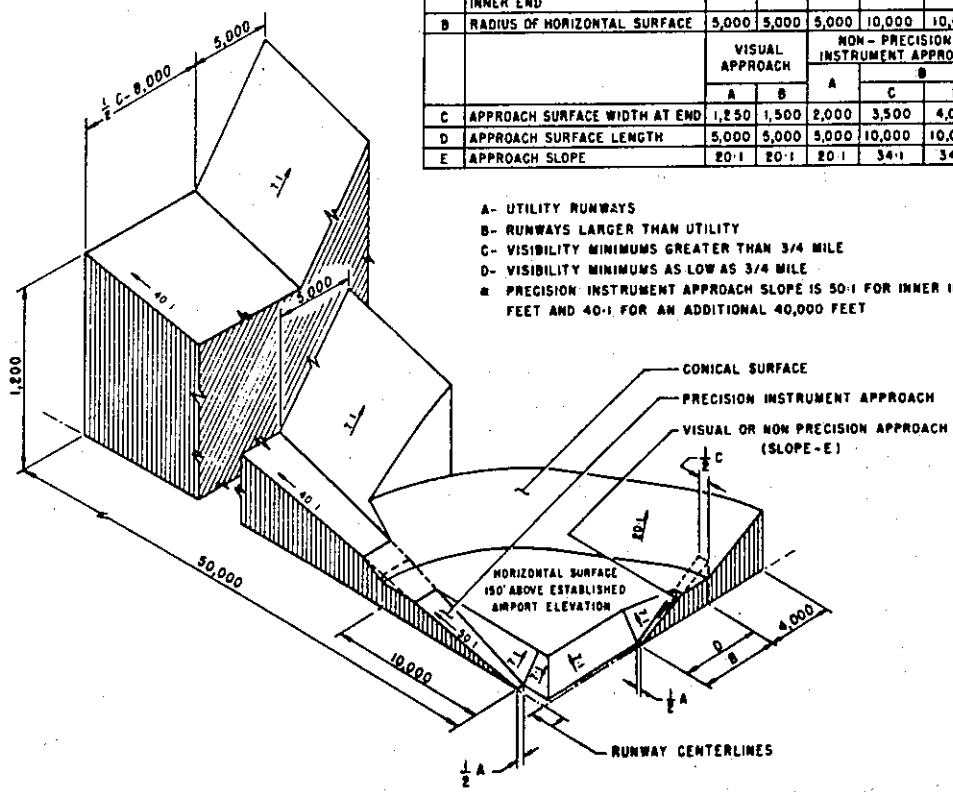
A(V) ..... Utility runway - visual approach only  
 A(NP) ..... Utility runway - nonprecision instrument approach  
 B(V) ..... Nonutility runway - visual approach only  
 C ..... Nonutility runway - nonprecision instrument approach with  
 visibility minimums greater than 3/4 mile  
 D ..... Nonutility 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.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	C	D	
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	C	D	
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	φ



- 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
- E- 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

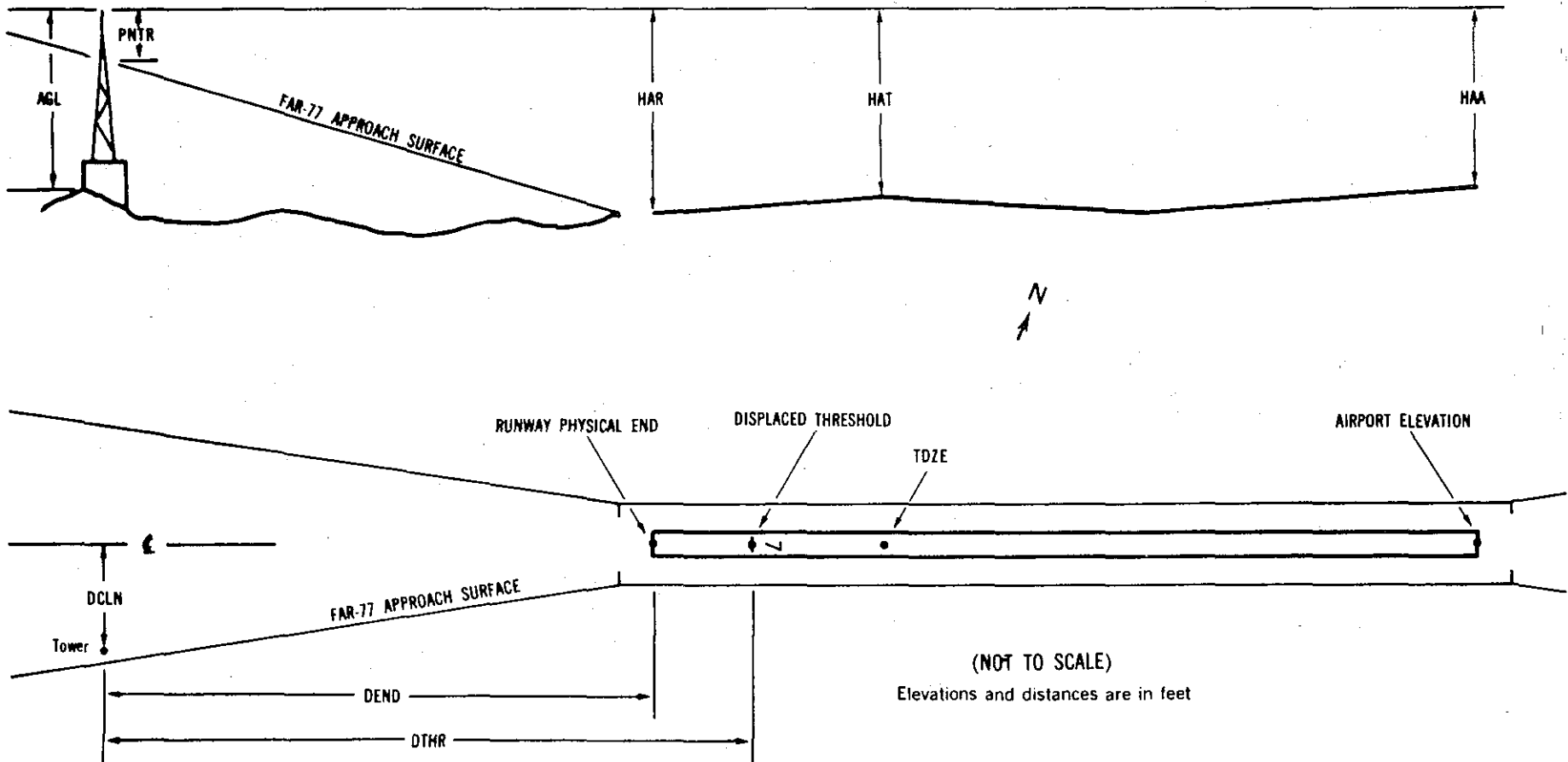
# ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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

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## EXPLANATION OF FOOTNOTES

- <sup>1</sup> 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 area 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.
- <sup>2</sup> For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)
- <sup>3</sup> Reference runway approach physical end elevation/touchdown zone elevation
- <sup>4</sup> Latitude and longitude of reference runway approach physical end
- <sup>5</sup> Reference runway geodetic azimuth reckoned clockwise from south
- <sup>6</sup> Reference runway displaced threshold elevation/touchdown zone elevation
- <sup>7</sup> Latitude and longitude of reference runway displaced threshold
- <sup>8</sup> Accuracy Code:
- | Horizontal | Vertical |
|------------|----------|
| 1 = 20     | A = 2    |
| 2 = 40     | B = 5    |
|            | C = 20   |
- <sup>9</sup> Mean Sea Level (MSL) elevation 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.
- <sup>10</sup> Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is  $\pm 10$  feet.
- <sup>11</sup> HAA - Height above airport  
 HAR - Height above reference runway approach physical end  
 HAT - Height above reference runway touchdown zone elevation
- <sup>12</sup> DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end  
 DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway 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 object is in primary area on roll-out side of zero distance point.
- <sup>13</sup> PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC5152

AIRPORT ELEVATION 3054

3 A(V) 3034/3034 354145.545N 1012352.055W 2195359

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	354145.18	1012354.15	1A	3040		6	6	-14	139		109L	6
ROAD (N)	354138.93	1012358.83	1A	3019		-15	-15	-35	871		0R	-49
POLE	354129.82	1012407.49	1A	3075		41	41	21	2036		43R	-51
POLE	354129.79	1012410.71	1A	3084		50	50	30	2209		158L	-50

21 A(V) 3016/3024 354215.111N 1012321.748W 0395417

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	354145.18	1012354.15	1A	3040		24	16	-14	-4036		109R	6
ROAD (N)	354218.38	1012318.49	1A	2984		-32	-40	-70	426		6R	-43

17 C 2997/3012 354235.893N 1012335.829W 3582304

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	354131.62	1012333.49	1A	3055		58	43	1	-6501		10L	1
BUSH	354155.70	1012331.25	1A	3038		41	26	-16	-4073		263L	17
WINDSOCK POLE	354224.62	1012337.67	1A	3013		16	1	-41	-1136		184R	537
BUSH	354229.35	1012338.13	1A	3008		11	-4	-46	-656		208R	69
FENCE POST	354235.78	1012337.72	1A	2998		1	-14	-56	-7		156R	1
FENCE POST	354237.83	1012337.71	1A	2998		1	-14	-56	200		150R	1
POLE	354240.22	1012338.10	1A	3002		5	-10	-52	443		175R	-2
POLE	354240.35	1012336.03	1A	3001		4	-11	-53	451		4R	-3

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AIRPORT ELEVATION 3054

35 C 3054/3054 354133.625N 1012333.677W 1782306

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE POST	354237.83	1012337.71	1A	2998		-56	-56	-56	-6499		150L	1
FENCE POST	354235.78	1012337.72	1A	2998		-56	-56	-56	-6292		156L	1
BUSH	354229.35	1012338.13	1A	3008		-46	-46	-46	-5643		208L	69
WINDSOCK POLE	354224.62	1012337.67	1A	3013		-41	-41	-41	-5163		184L	537
BUSH	354155.70	1012331.25	1A	3038		-16	-16	-16	-2226		263R	17
GROUND	354131.62	1012333.49	1A	3055		1	1	1	203		10R	1
VENT ON BUILDING	354126.27	1012335.36	1A	3073		19	19	19	739		160L	3
TREE	354125.42	1012337.69	1A	3093		39	39	39	820		354L	21
TREE	354125.25	1012336.78	1A	3090		36	36	36	840		280L	17
TREE	354121.01	1012337.06	1A	3093		39	39	39	1267		315L	8
ANTENNA ON POLE	354119.53	1012333.02	1A	3105		51	51	51	1426		14R	15
TREE	354117.43	1012330.62	1A	3097		43	43	43	1644		206R	1
TREE	354111.49	1012332.31	1A	3114		60	60	60	2240		50R	0
ANTENNA	354106.46	1012331.81	1A	3124		70	70	70	2750		77R	-5
MAST	354017.12	1012316.60	1A	3288		234	234	234	7772		1190R	11

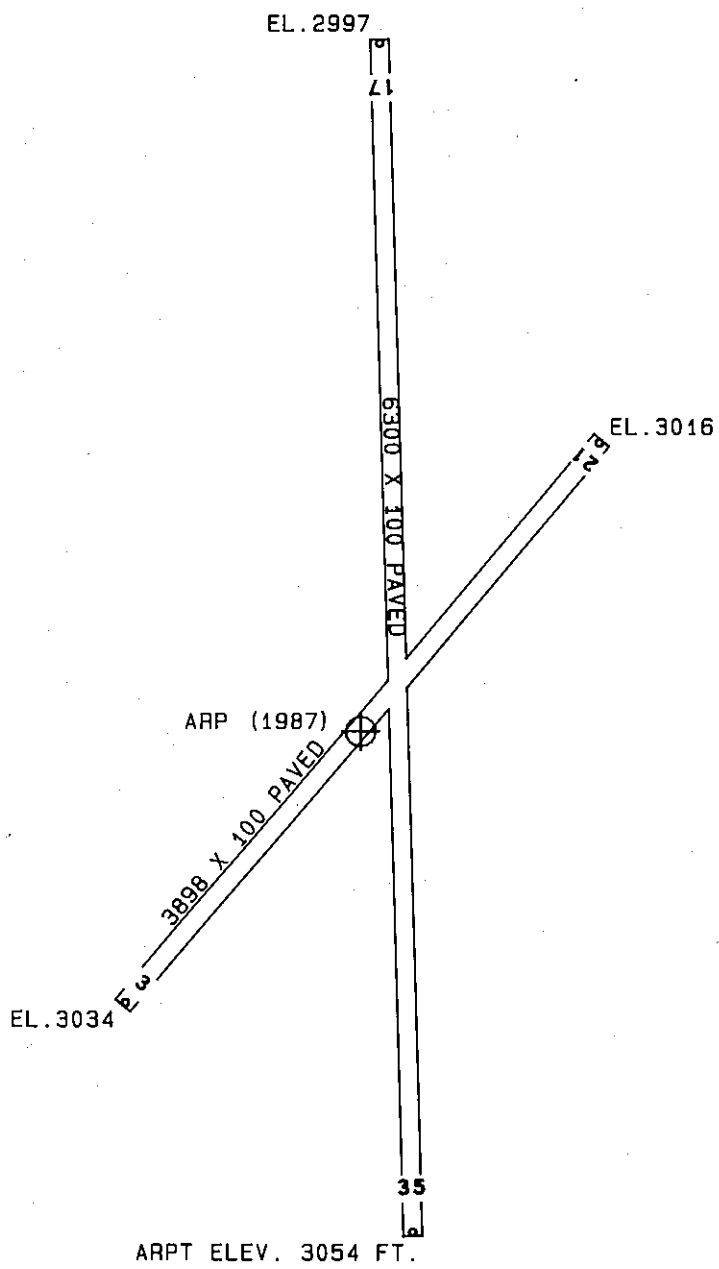
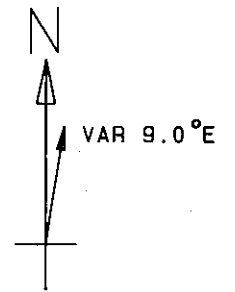
OC5152

AIRPORT ELEVATION 3054

ARP 354159.994N 1012337.001W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
BUSH	354200.01	1012339.70	1A	3021		-33	261 20	223
BUSH	354155.38	1012344.46	1A	3035		-19	223 52	772
GROUND	354150.44	1012330.36	1A	3044		-10	141 28	1110
BUSH	354151.80	1012348.16	1A	3038		-16	219 0	1239
OL WINDSOCK	354146.30	1012339.14	1A	3062		8	178 17	1396
HANGAR	354145.19	1012343.54	1A	3053		-1	190 49	1591
ANTENNA ON BUILDING	354143.41	1012339.68	1A	3079		25	178 31	1691
FENCE	354218.12	1012331.02	1A	3033		-21	6 3	1898
POLE	354145.99	1012355.35	1A	3038		-16	217 55	2073
OL AIRPORT BEACON	354139.17	1012341.67	1A	3109		55	181 22	2141
OL ON HANGAR	354137.74	1012338.80	1A	3084		30	174 47	2256
OIL WELL	354224.88	1012329.80	1A	3038		-16	4 17	2586
BUSH	354230.04	1012331.78	1A	3015		-39	359 4	3068
FENCE	354232.05	1012332.38	1A	3007		-47	357 42	3263
POLE	354126.77	1012338.25	1A	3090		36	172 46	3361
TREE	354117.68	1012326.97	1A	3112		58	160 3	4358
POLE	354246.09	1012259.29	1A	3029		-25	24 42	5604
OL RADIO TOWER	354104.76	1012311.76	2A	3302	234	248	150 33	5960
STANDPIPE	354135.63	1012212.94	1B	3190		136	100 33	7358
STACK	354141.41	1012203.23	1B	3264		210	94 39	7960
OL ON MICROWAVE TOWER	354041.40	1012314.18	1B	3248		194	157 40	8167
OL ON STACK	354156.20	1012155.68	1B	3297	247	243	83 37	8366
OL ON STACK	354147.89	1012156.04	1B	3292	248	238	89 21	8417
OL TANK	354040.38	1012303.16	1B	3251		197	151 52	8521
STACK	354024.82	1012435.35	1B	3253	218	199	197 35	10760
OL ANTENNA	354009.59	1012352.06	1B	3232		178	177 21	11232





TOUCHDOWN ZONE RUNWAY ELEVATION	
3	3034
21	3024
17	3012
35	3054

HUTCHINSON COUNTY AIRPORT  
 BORGER, TEXAS  
 (NOT TO SCALE)