

LETTER OF TRANSMITTAL

Vernon F. Meyer and Assoc., Inc.

5525 Maurice
NO2A 70123

TO: Mr. Arthur Theis
GEC, Inc.
9357 Interline Ave
Baton Rouge, La. 70809

DATE: 10-6-95

PROJECT: L160

WE ARE TRANSMITTING:

THESE ARE TRANSMITTED AS CHECKED:

- ENCLOSED
- UNDER SEPARATE COVER
- BY MESSENGER
- PLANS
- REVISED PLANS
- SHOP DRAWINGS
- LETTERS/SPECIFICATIONS
- SAMPLES

- FOR YOUR USE
- AS REQUESTED
- FOR REVIEW
- FOR APPROVAL
- APPROVED
- APPROVED WITH CORRECTIONS SHOWN
- RETURNED FOR CORRECTION AND RESUBMITTAL

NO. COPIES	DRAWING OR IDENTIFICATION	DESCRIPTION
1	25 Paper Plots	Ligo Project
1		GPS printout
1	3.5 Disk	XYZ file

REMARKS:

Suggest make 1"=200' plans, 1"=100' plans.

VERNON F. MEYER AND ASSOC., INC.

BY: *[Signature]*

DATA BOOKLET

LIGO

GPS CONTROL SURVEY

CALAFORNIA INSTITUTE OF TECHNOLOGY

SURVEY NO. 95-117

PROJECT AREA: LIVINGSTON PARISH



PREPARED BY

VERNON F. MEYER & ASSOC., INC.
SURVEYING, PLANNING, AND
PHOTOGRAMMETRIC MAPPING

5525 MOUNES STREET
NEW ORLEANS, LA
(504) 733-3770

600 CITIES SERVICE HWY
SULPHUR, LA
(318) 625-8353

11/11/95 10:00 AM

LIGO

State plane coordinates (1702) are from a fully constrained least squares adjustment holding to the **NAD83\92** values of NGS stations G 275, AND 3H019. Vertical constraints were the estimated ellipsoid heights of G 275.

EASTING (Feet)	NORTHING (Feet)	ORTHO.HT. (Feet)	STATION
3460989.05172	738320.57379	50.246	LIGO 1 = 1001
3458903.40003	744519.64252	54.927	LIGO 2 = 1002
3457182.57992	750681.37965	58.728	LIGO 3 = 1003
3450520.15899	748702.39005	62.439	LIGO 4 = 1004
3444303.96185	746819.76529	58.672	LIGO 5 = 1005
			G 275 = 1000
			3H019 = 1006
			THOMPSON = 1007

NOTE: It should be emphasised that the network was tied to three High Accuracy Reference stations G 275, 3H019 and THOMPSON. These stations are horizontal order "B" accuracy. Orthometric heights are in NAVD88 vertical datum. These are preliminary elevations of control points. The first order class one survey is in progress.

COORDINATE ADJUSTMENT SUMMARY
 NETWORK = LIGO
 TIME = Wed Oct 4 12:33:59 1995

Datum = NAD-83
 Coordinate System = Geographic
 Zone = Global

Network Adjustment Constraints:
 2 fixed coordinates in y
 2 fixed coordinates in x
 1 fixed coordinates in H

POINT	NAME	OLD COORDS	ADJUST	NEW COORDS	1.00σ
1	1000				
	LAT=	30° 17' 21.248910"	+0.000000"	30° 17' 21.248910"	FIXED
	LON=	90° 24' 06.831500"	+0.000000"	90° 24' 06.831500"	FIXED
	ELL HT=	-25.3530m	+0.0000m	-25.3530m	FIXED
2	1001				
	LAT=	30° 31' 44.311310"	+0.000000"	30° 31' 44.311310"	0.005272m
	LON=	90° 45' 40.107912"	+0.000000"	90° 45' 40.107912"	0.005126m
	ELL HT=	-12.1249m	+0.0000m	-12.1249m	0.009323m
3	1002				
	LAT=	30° 32' 45.771883"	+0.000000"	30° 32' 45.771883"	0.004591m
	LON=	90° 46' 03.604872"	+0.000000"	90° 46' 03.604872"	0.004623m
	ELL HT=	-10.7163m	+0.0000m	-10.7163m	0.006461m
4	1003				
	LAT=	30° 33' 46.843820"	+0.000000"	30° 33' 46.843820"	0.004265m
	LON=	90° 46' 22.939174"	+0.000000"	90° 46' 22.939174"	0.004635m
	ELL HT=	-9.5747m	+0.0000m	-9.5747m	0.006304m
5	1004				
	LAT=	30° 33' 27.572349"	+0.000000"	30° 33' 27.572349"	0.005481m
	LON=	90° 47' 39.248463"	+0.000000"	90° 47' 39.248463"	0.005412m
	ELL HT=	-8.4446m	+0.0000m	-8.4446m	0.009201m
6	1005				
	LAT=	30° 33' 09.222452"	+0.000000"	30° 33' 09.222452"	0.004943m
	LON=	90° 48' 50.441288"	+0.000000"	90° 48' 50.441288"	0.004913m
	ELL HT=	-9.5937m	+0.0000m	-9.5937m	0.006592m
7	1006				
	LAT=	30° 09' 14.968600"	+0.000000"	30° 09' 14.968600"	FIXED
	LON=	90° 48' 38.058600"	+0.000000"	90° 48' 38.058600"	FIXED
	ELL HT=	-18.7185m	+0.0000m	-18.7185m	0.009133m
8	1007				
	LAT=	30° 42' 20.897894"	+0.000000"	30° 42' 20.897894"	0.007170m
	LON=	91° 11' 27.065319"	+0.000000"	91° 11' 27.065319"	0.007616m
	ELL HT=	10.2902m	+0.0000m	10.2902m	0.010726m

ADJUSTMENT STATISTICS SUMMARY
NETWORK = LIGO
TIME = Wed Oct 4 12:33:59 1995

ADJUSTMENT SUMMARY

Network Reference Factor = 1.00
Chi-Square Test ($\alpha = 95\%$) = PASS
Degrees of Freedom = 30.00

GPS OBSERVATIONS

Reference Factor = 1.00
r = 30.00

GPS Solution	1	Reference Factor =	1.00	r =	0.00
GPS Solution	2	Reference Factor =	1.71	r =	2.29
GPS Solution	3	Reference Factor =	1.48	r =	1.25
GPS Solution	4	Reference Factor =	0.95	r =	0.89
GPS Solution	5	Reference Factor =	0.63	r =	2.14
GPS Solution	6	Reference Factor =	0.83	r =	1.24
GPS Solution	7	Reference Factor =	0.53	r =	1.97
GPS Solution	8	Reference Factor =	1.14	r =	2.34
GPS Solution	9	Reference Factor =	1.08	r =	1.86
GPS Solution	10	Reference Factor =	1.53	r =	1.71
GPS Solution	11	Reference Factor =	1.07	r =	1.51
GPS Solution	12	Reference Factor =	0.66	r =	1.95
GPS Solution	13	Reference Factor =	1.10	r =	2.43
GPS Solution	14	Reference Factor =	0.54	r =	1.78
GPS Solution	15	Reference Factor =	0.77	r =	1.72
GPS Solution	16	Reference Factor =	0.66	r =	1.67
GPS Solution	17	Reference Factor =	0.31	r =	1.59
GPS Solution	18	Reference Factor =	0.63	r =	1.67

WEIGHTING STRATEGIES:

GPS OBSERVATIONS:

Scalar Weighting Strategy:

User-Defined Scalar Set Applied Globally = 5.90

No summation weighting strategy was used

Station Error Strategy:

H.I. error = 0.0007

Tribrach error = 0.0005

SUMMARY OF COVARIANCES
 NETWORK = LIGO
 TIME = Wed Oct 4 12:34:08 1995

Definition of precision $(E \times S)^2 = C^2 + P^2$:

Horizontal:

Precision (P) expressed as: ratio

Propagated linear error (E): U.S.

(standard error of adjusted horizontal distance)

Scalar (S) on propagated linear error: 1.0000

Constant error term (C): 0.0000

3-Dimensional:

Precision (P) expressed as: ratio

Propagated linear error (E): U.S.

(standard error of adjusted slope distance)

Scalar (S) on propagated linear error: 1.0000

Constant error term (C): 0.0000

Using ellipsoid height errors

FROM/ TO	AZIMUTH/ DELTA H	1.00σ 1.00σ	DISTANCE/ DELTA h	1.00σ 1.00σ	HOR PREC/ 3-D PREC
1000	307°41'05"	0.03"	43565.058m	0.0048m	1: 9056372
1001	+13.2281m	0.0093m	***-	***-	1: 9056372
1000	309°06'14"	0.02"	45228.050m	0.0043m	1:10598853
1002	+14.6367m	0.0065m	***-	***-	1:10598853
1000	310°29'55"	0.02"	46824.300m	0.0042m	1:11142462
1003	+15.7783m	0.0063m	***-	***-	1:11142462
1000	308°23'19"	0.03"	48023.837m	0.0050m	1: 9593129
1004	+16.9084m	0.0092m	***-	***-	1: 9593129
1000	306°30'17"	0.02"	49192.467m	0.0045m	1:10907693
1005	+15.7593m	0.0066m	***-	***-	1:10907693
1000	***-	***-	***-	***-	***-
1006	+6.6345m	0.0091m	***-	***-	***-
1000	301°34'18"	0.02"	88708.936m	0.0068m	1:13041598
1007	+35.6432m	0.0107m	***-	***-	1:13041598
1001	341°41'27"	0.30"	1993.615m	0.0030m	1: 673694
1002	+1.4085m	0.0074m	***-	***-	1: 673694
1001	343°10'12"	0.18"	3942.293m	0.0040m	1: 991944
1003	+2.5501m	0.0089m	***-	***-	1: 991944
1001	315°02'49"	0.16"	4494.054m	0.0030m	1: 1485400
1004	+3.6803m	0.0082m	***-	***-	1: 1485400
1001	297°16'48"	0.11"	5707.586m	0.0027m	1: 2110894
1005	+2.5311m	0.0073m	***-	***-	1: 2110894
1001	186°32'17"	0.02"	41822.546m	0.0054m	1: 7814618
1006	-6.5936m	0.0121m	***-	***-	1: 7814618
1001	295°33'15"	0.03"	45628.062m	0.0053m	1: 8596446
1007	+22.4150m	0.0130m	***-	***-	1: 8596446
1002	344°40'45"	0.24"	1950.021m	0.0030m	1: 658274
1003	+1.1416m	0.0057m	***-	***-	1: 658274

1002	296°47'58"	0.22"	2855.691m	0.0026m	1: 1081832
1004	+2.2718m	0.0072m	-**-	-**-	1: 1081832
1002	279°14'11"	0.10"	4504.935m	0.0017m	1: 2617591
1005	+1.1226m	0.0044m	-**-	-**-	1: 2617591
1002	185°26'05"	0.02"	43639.657m	0.0047m	1: 9375223
1006	-8.0022m	0.0101m	-**-	-**-	1: 9375223
1002	293°41'25"	0.02"	44269.942m	0.0046m	1: 9608981
1007	+21.0065m	0.0112m	-**-	-**-	1: 9608981
1003	253°44'13"	0.39"	2118.459m	0.0035m	1: 612261
1004	+1.1302m	0.0087m	-**-	-**-	1: 612261
1003	253°35'21"	0.16"	4098.188m	0.0025m	1: 1664688
1005	-0.0190m	0.0060m	-**-	-**-	1: 1664688
1003	184°33'40"	0.02"	45468.374m	0.0043m	1:10541983
1006	-9.1438m	0.0093m	-**-	-**-	1:10541983
1003	291°40'17"	0.02"	43069.119m	0.0042m	1:10209035
1007	+19.8649m	0.0101m	-**-	-**-	1:10209035
1004	253°25'13"	0.30"	1979.743m	0.0028m	1: 709812
1005	-1.1492m	0.0072m	-**-	-**-	1: 709812
1004	182°00'54"	0.02"	44759.069m	0.0055m	1: 8122034
1006	-10.2739m	0.0120m	-**-	-**-	1: 8122034
1004	293°27'45"	0.03"	41418.744m	0.0051m	1: 8155905
1007	+18.7347m	0.0130m	-**-	-**-	1: 8155905
1005	179°34'12"	0.02"	44167.660m	0.0049m	1: 8946674
1006	-9.1248m	0.0102m	-**-	-**-	1: 8946674
1005	295°16'51"	0.03"	39923.435m	0.0046m	1: 8734456
1007	+19.8839m	0.0113m	-**-	-**-	1: 8734456
1006	329°14'35"	0.02"	71236.179m	0.0066m	1:10834508
1007	+29.0087m	0.0092m	-**-	-**-	1:10834508

OPERATOR Chris A

DATE 10/2/95

RECEIVER TYPE & SN # 4000SST

ANTENNA TYPE & SN # _____

TRIBRACH TYPE & SN # _____

WEATHER INFO. _____

STA. NAME 34019

LOCATION _____

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # 1006

JULIAN DAY 275

SESSION # 1

SCHEDULED START TIME UTC 13:30

LOCAL TIME 7:00

SCHEDULED STOP TIME UTC 14:30

LOCAL TIME 7:50

ANTENNA HGT: 1.632 (M)

COMMENTS / REMARKS

" " 1.632 (M)

" " 1.632 (M)

" " _____ (FT)

" " _____ MEAN

SLOPE VERTICAL _____

STA. NAME LIGO-2

LOCATION _____

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # 1002

JULIAN DAY 275

SESSION # 2

SCHEDULED START TIME UTC 16:00

LOCAL TIME 11:00

SCHEDULED STOP TIME UTC 17:00

LOCAL TIME 12:00

ANTENNA HGT: 1.648 (M)

COMMENTS / REMARKS

" " 1.648 (M)

" " 1.648 (M)

" " _____ (FT)

" " _____ MEAN

SLOPE VERTICAL _____

OPERATOR Class A

DATE 10/2/95

RECEIVER TYPE & SN # _____

ANTENNA TYPE & SN # _____

TRIBRACH TYPE & SN # _____

WEATHER INFO. _____

STA. NAME LIGO-2

LOCATION _____

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # 1002

JULIAN DAY 275

SESSION # 3

SCHEDULED START TIME UTC 18:30

LOCAL TIME 1:30

SCHEDULED STOP TIME UTC 19:30

LOCAL TIME 2:30

ANTENNA HGT: 1.764 (M)

COMMENTS / REMARKS

" " 1.764 (M)

" " 1.764 (M)

" " _____ (FT)

" " _____ MEAN

SLOPE VERTICAL _____

STA. NAME _____

LOCATION _____

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # _____

JULIAN DAY _____

SESSION # _____

SCHEDULED START TIME UTC _____

LOCAL TIME _____

SCHEDULED STOP TIME UTC _____

LOCAL TIME _____

ANTENNA HGT: _____ (M)

COMMENTS / REMARKS

" " _____ (M)

" " _____ (M)

" " _____ (FT)

" " _____ MEAN

SLOPE VERTICAL _____

VERNON F. MEYER & ASSOC., INC.
GPS OBSERVATION FORM

OPERATOR Stuart

DATE 10-2-95

RECEIVER TYPE & SN # 4000SSI 4305

ANTENNA TYPE & SN # Compact II / 12 w/ Benth ¹⁰⁰¹⁹

TRIBRACH TYPE & SN # Sokkia #427771

WEATHER INFO. Cloudy

STA. NAME Ligo-3

LOCATION Livingston

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # 1003

JULIAN DAY 275

SESSION # 1

SCHEDULED START TIME UTC 13:30

LOCAL TIME 8:30

SCHEDULED STOP TIME UTC 14:30

LOCAL TIME 9:30

ANTENNA HGT: 1.622 (M)

COMMENTS / REMARKS

" " 1.624 (M)

" " 1.622 (M)

" " 5.322 (FT)

" " 1.623 MEAN

SLOPE VERTICAL _____

STA. NAME Ligo-3

LOCATION Livingston

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # 1003

JULIAN DAY 275

SESSION # 2

SCHEDULED START TIME UTC 16:00

LOCAL TIME 11:00

SCHEDULED STOP TIME UTC 17:00

LOCAL TIME 12:00

ANTENNA HGT: 1.578 (M)

COMMENTS / REMARKS

" " 1.580 (M)

" " 1.580 (M)

" " 5.161 (FT)

" " 1.579 MEAN

SLOPE VERTICAL _____

VERNON F. MEYER & ASSOC., INC.
GPS OBSERVATION FORM

OPERATOR Stuart

DATE 10-2-95

RECEIVER TYPE & SN # 400055E 4305

ANTENNA TYPE & SN # Comport 4/2 w/beam *10019

TRIBRACH TYPE & SN # Sokkia *427771

WEATHER INFO. Cloudy

STA. NAME Ligo-1

LOCATION Livingston

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # 1001

JULIAN DAY 225

SESSION # 3

SCHEDULED START TIME UTC 18:30

LOCAL TIME 18:30

SCHEDULED STOP TIME UTC 19:30

LOCAL TIME 14:30

ANTENNA HGT: 1.638 (M)

COMMENTS / REMARKS

" " 1.638 (M)

" " 1.638 (M)

" " 5.357 (FT)

" " 1.638 MEAN

SLOPE VERTICAL _____

STA. NAME _____

LOCATION _____

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # _____

JULIAN DAY _____

SESSION # _____

SCHEDULED START TIME UTC _____

LOCAL TIME _____

SCHEDULED STOP TIME UTC _____

LOCAL TIME _____

ANTENNA HGT: _____ (M)

COMMENTS / REMARKS

" " _____ (M)

" " _____ (M)

" " _____ (FT)

" " _____ MEAN

SLOPE VERTICAL _____

VERNON F. MEYER & ASSOC., INC.
GPS OBSERVATION FORM
LIGO

OPERATOR Wade D.

DATE Oct. 2 1995

RECEIVER TYPE & SN # 4000 SSI

ANTENNA TYPE & SN # 010011

TRIBRACH TYPE & SN # _____

WEATHER INFO. Clouds

STA. NAME G 275

LOCATION Manchac, La

REF. LAT 30-17-21.84

REF LONG 090-24-05.28

REF ELLIP HT. _____

STATION # 1000

JULIAN DAY 275

SESSION # 1

SCHEDULED START TIME UTC 13:30

LOCAL TIME 8:30

SCHEDULED STOP TIME UTC 14:30

LOCAL TIME 9:30

ANTENNA HGT: 1.184 (M)

COMMENTS / REMARKS

" " 1.184 (M)

close to I-55 overpass

" " 1.184 (M)

1000-275-1

" " _____ (FT)

" " 1.184 MEAN

SLOPE VERTICAL _____

STA. NAME G 275

LOCATION Manchac, La

REF. LAT 30-17-21.84

REF LONG 090-24-05.28

REF ELLIP HT. _____

STATION # 1000

JULIAN DAY 275

SESSION # 2

SCHEDULED START TIME UTC 16:00

LOCAL TIME 11:00

SCHEDULED STOP TIME UTC 17:00

LOCAL TIME 12:00

ANTENNA HGT: 1.191 (M)

COMMENTS / REMARKS

" " 1.191 (M)

1000-275-2

" " 1.191 (M)

" " _____ (FT)

" " 1.191 MEAN

SLOPE VERTICAL _____

VERNON F. MEYER & ASSOC., INC.
GPS OBSERVATION FORM

OPERATOR Wade

DATE 9/2/95

RECEIVER TYPE & SN # 4000 SSF

ANTENNA TYPE & SN # 010011

TRIBRACH TYPE & SN # _____

WEATHER INFO. _____

STA. NAME Ligo 4

LOCATION Livingston

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # 1004

JULIAN DAY 275

SESSION # 3

SCHEDULED START TIME UTC 18:17

LOCAL TIME 1:30

SCHEDULED STOP TIME UTC 19:30

LOCAL TIME 2:30

ANTENNA HGT: 1.732 (M)

COMMENTS / REMARKS

" " 1.732 (M)

" " 1.734 (M)

" " _____ (FT)

" " 1.733 MEAN

SLOPE VERTICAL _____

STA. NAME _____

LOCATION _____

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # _____

JULIAN DAY _____

SESSION # _____

SCHEDULED START TIME UTC _____

LOCAL TIME _____

SCHEDULED STOP TIME UTC _____

LOCAL TIME _____

ANTENNA HGT: _____ (M)

COMMENTS / REMARKS

" " _____ (M)

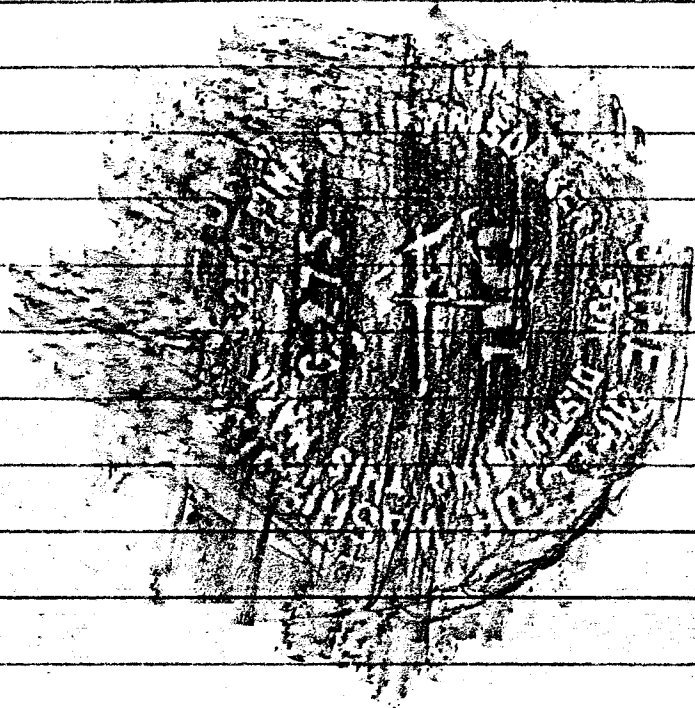
" " _____ (M)

" " _____ (FT)

" " _____ MEAN

SLOPE VERTICAL _____

6275
1969



1007

VERNON F. MEYER & ASSOC., INC.
GPS OBSERVATION FORM

OPERATOR Comeaux

DATE 10-2-95

RECEIVER TYPE & SN # 4000 SSE

ANTENNA TYPE & SN # 010015

TRIBRACH TYPE & SN # Sokkia

WEATHER INFO. Cloudy, Foggy

STA. NAME Thompson

LOCATION _____

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # 1007

JULIAN DAY 275

SESSION # 1

SCHEDULED START TIME UTC 13:30

LOCAL TIME 8:30

SCHEDULED STOP TIME UTC 14:30

LOCAL TIME 14:30

ANTENNA HGT: 1.662 (M)

COMMENTS / REMARKS

" " 1.662 (M)

" " 1.663 (M)

" " 5.448 (FT)

" " 1.6623 MEAN

SLOPE VERTICAL _____

STA. NAME Lign 5

LOCATION _____

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # 1005

JULIAN DAY 275

SESSION # 2

SCHEDULED START TIME UTC 18:10

LOCAL TIME 11:10

SCHEDULED STOP TIME UTC 17:00

LOCAL TIME 12:00

ANTENNA HGT: 1.753 (M)

COMMENTS / REMARKS

" " 1.752 (M)

" " 1.754 (M)

" " 5.813 (FT)

" " 1.753 MEAN

SLOPE VERTICAL _____

OPERATOR Cameron

DATE 10-2-95

RECEIVER TYPE & SN # Trimble 55F

ANTENNA TYPE & SN # Trimble 5120

TRIBRACH TYPE & SN # Sokkia

WEATHER INFO. Cloudy 015210

STA. NAME Ligo 5

LOCATION _____

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # 10ms

JULIAN DAY 275

SESSION # 3

SCHEDULED START TIME UTC 18:30

LOCAL TIME 1:30

SCHEDULED STOP TIME UTC 19:30

LOCAL TIME 2:30

ANTENNA HGT: 1.774 (M)

COMMENTS / REMARKS

" " 1.774 (M)

" " 1.772 (M)

" " _____ (FT)

" " 1.773 MEAN

SLOPE VERTICAL _____

STA. NAME _____

LOCATION _____

REF. LAT _____

REF LONG _____

REF ELLIP HT. _____

STATION # _____

JULIAN DAY _____

SESSION # _____

SCHEDULED START TIME UTC _____

LOCAL TIME _____

SCHEDULED STOP TIME UTC _____

LOCAL TIME _____

ANTENNA HGT: _____ (M)

COMMENTS / REMARKS

" " _____ (M)

" " _____ (M)

" " _____ (FT)

" " _____ MEAN

SLOPE VERTICAL _____

1 National Geodetic Survey, Retrieval Date = MARCH 28, 1994

BJ1527 *****

BJ1527 DESIGNATION - G 275
BJ1527 PID - BJ1527
BJ1527 STATE/COUNTY- LA/TANGIPAHOA
BJ1527 USGS QUAD - MANCHAC
BJ1527
BJ1527 HORZ DATUM - NAD 83 (1992)
BJ1527 VERT DATUM - NAVD 88
BJ1527

BJ1527 POSITION - 30 17 21.24891(N) 090 24 06.83150(W) ADJUSTED
BJ1527 92 minus 83 -00.01633 +00.00321 ADJUSTED
BJ1527 83 minus 27 - +00.70663 +00.30563 NADCON

BJ1527 HEIGHT - 1.680 (meters) 5.51 (feet) ADJUST
BJ1527 88 minus 29 - -0.034 ADJUSTED

BJ1527 *****

BJ1527 LAPLACE CORR- 0.63 DEFLEC93
BJ1527 GEOID HEIGHT- -27.03 GEOID93

BJ1527 ELLIP HEIGHT- -25.003
BJ1527 X - -38664.196
BJ1527 Y - -5511997.825

BJ1527 Z - 3198088.089
BJ1527 MODELED GRAV- 979,338.9 NAVD88

BJ1527
BJ1527 HORZ ORDER - B
BJ1527 VERT ORDER - FIRST CLASS 1

BJ1527 ELLP ORDER - FOURTH CLASS 1
BJ1527

BJ1527 The horizontal coordinates were established by GPS observations
BJ1527 and adjusted by the National Geodetic Survey in September 1992.
BJ1527

BJ1527 The orthometric height was determined by differential leveling
BJ1527 and adjusted by the National Geodetic Survey in February 1994.
BJ1527

BJ1527 The Laplace correction was computed from DEFLEC93 derived deflections.
BJ1527

BJ1527 The geoid height was determined by GEOID93.
BJ1527

BJ1527 The ellipsoidal height was determined by GPS observations
BJ1527 and reference to NAD83.

BJ1527
BJ1527 The X, Y, and Z were computed from the position and the ellipsoidal ht.
BJ1527

BJ1527 The modeled gravity was interpolated from observed gravity values.
BJ1527

BJ1527
BJ1527 North East Scale Converg.

BJ1527 SPC LA S - 198,691.538 1,089,602.497 0.99993836 +0 27 56.6 MT
BJ1527 UTM 15 - 3,353,694.579 749,893.494 1.00037047 +1 18 39.9 MT

BJ1527
BJ1527 STATION MARK IS A BENCH MARK DISK
BJ1527 WITH SETTING: SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE

BJ1527 THE MARK IS STAMPED: G 275 1969
BJ1527 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

BJ1527 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
BJ1527 SATELLITE: SATELLITE OBSERVATIONS - June 18, 1992

BJ1527
BJ1527 HISTORY - Year Condition Recov. By

BJ1527 HISTORY - 1969 STATION MONUMENTED COAST AND GEODETIC SURVEY
BJ1527 HISTORY - 1978 GOOD US ARMY CORPS OF ENGINEERS

BJ1527 HISTORY - 1986 GOOD NATIONAL GEODETIC SURVEY
BJ1527 HISTORY - 1991 GOOD LA TRANSP AND DEV

BJ1527 HISTORY - 1992 GOOD NATIONAL GEODETIC SURVEY
BJ1527

BJ1527
BJ1527 STATION DESCRIPTION

BJ1527 DESCRIBED BY US ARMY CORPS OF ENGINEERS 1978

BJ1527' TEXT WAS SUPERSEDED BY LATER RECOVERY.

BJ1527

BJ1527 STATION RECOVERY (1986)

BJ1527

BJ1527' RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1986

BJ1527' TEXT WAS SUPERSEDED BY LATER RECOVERY.

BJ1527

BJ1527 STATION RECOVERY (1991)

BJ1527

BJ1527' RECOVERY NOTE BY LA TRANSP AND DEV 1991

BJ1527' TEXT WAS SUPERSEDED BY LATER RECOVERY.

BJ1527

BJ1527 STATION RECOVERY (1992)

BJ1527

BJ1527' RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992

BJ1527' 16.9 KM (10.50 MI) SOUTHERLY ALONG THE ILLINOIS CENTRAL RAILROAD FROM

BJ1527' THE JUNCTION OF STATE HIGHWAY 22 IN PONCHATOULA, IN TOP OF AND 0.7 M

BJ1527' (2.3 FT) WEST OF THE EAST END OF THE NORTH CONCRETE ABUTMENT OF A

BJ1527' HIGHWAY BRIDGE SPANNING PASS MANCHAC, 92.0 M (301.8 FT) SOUTHWEST OF

BJ1527' THE NEAR RAIL, 6.0 M (19.7 FT) NORTHEAST OF THE CENTER OF THE

BJ1527' HIGHWAY, 1.6 M (5.2 FT) EAST-SOUTHEAST OF A WITNESS POST, AND 0.3 M

BJ1527' (1.0 FT) BELOW THE LEVEL OF THE HIGHWAY.

1 National Geodetic Survey, Retrieval Date = MARCH 28, 1994

BJ4462 *****

BJ4462 DESIGNATION - 3H019
BJ4462 PID - BJ4462
BJ4462 STATE/COUNTY- LA/ASCENSION
BJ4462 USGS QUAD - SORRENTO

BJ4462 HORZ DATUM - NAD 83 (1992)
BJ4462 VERT DATUM - NAVD 88

BJ4462 POSITION - 30 09 14.96860(N) 090 48 38.05860(W) ADJUSTED
BJ4462 92 minus 83 -00.01560 -00.00328 ADJUSTED
BJ4462 83 minus 27 - +00.71467 +00.34140 ADJUSTED

BJ4462 HEIGHT - 8.4 (meters) 28. (feet) GPS OBS
BJ4462 88 minus 29 - +0.0 VERTCON

BJ4462 *****

BJ4462 LAPLACE CORR- 0.85 DEFLEC93
BJ4462 GEOID HEIGHT- -27.05 GEOID93
BJ4462 ELLIP HEIGHT- -18.484
BJ4462 X - -78085.069
BJ4462 Y - -5519123.915
BJ4462 Z - 3185152.433

BJ4462 HORZ ORDER - B
BJ4462 ELLP ORDER - FOURTH CLASS 1

BJ4462 The horizontal coordinates were established by GPS observations
BJ4462 and adjusted by the National Geodetic Survey in September 1992.

BJ4462 The orthometric height was determined by GPS observations.

BJ4462 The Laplace correction was computed from DEFLEC93 derived deflections.

BJ4462 The geoid height was determined by GEOID93.

BJ4462 The ellipsoidal height was determined by GPS observations
BJ4462 and reference to NAD83.

BJ4462 The X, Y, and Z were computed from the position and the ellipsoidal ht.

	North	East	Scale	Converg.	
BJ4462; SPC LA S	- 183,469.016	1,050,357.437	0.99992931	+0 15 41.0	MT
BJ4462; UTM 15	- 3,337,891.923	710,863.749	1.00014859	+1 06 00.8	MT

	Primary Azimuth Mark	Grid Az
BJ4462; SPC LA S	- 3H018 LADH 1979	283 21 08.6
BJ4462; UTM 15	- 3H018 LADH 1979	282 30 48.8

Pid	Reference Object	Distance	Geod. AZ
BJ4462			dddmmss.s
BJ4462	BJ4461 LAVERT 1973 RM 3	APPROX. 1.6 KM	0985746.8
BJ4462	BJ4463 3H018 LADH 1979	APPROX. 1.4 KM	2833649.6

BJ4462 STATION MARK IS A SURVEY DISK
BJ4462 WITH SETTING: SET IN TOP OF CONCRETE MONUMENT (ROUND)
BJ4462 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
BJ4462 STABILITY: SURFACE MOTION
BJ4462 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
BJ4462 SATELLITE: SATELLITE OBSERVATIONS - March 26, 1992

BJ4462 HISTORY - Year Condition Recov. By
BJ4462 HISTORY - 1978 STATION MONUMENTED LA TRANSP AND DEV
BJ4462 HISTORY - 1991 GOOD LA TRANSP AND DEV
BJ4462

BJ4462

STATION DESCRIPTION

BJ4462

BJ4462 DESCRIBED BY LA TRANSP AND DEV 1978 (TLH)

BJ4462 THE STATION IS LOCATED IN THE SOUTHWEST 1/4 OF SECTION 21, T 10 S,

BJ4462 R 4 E, ON PROPERTY OWNED BY THE LOUISIANA DEPARTMENT OF HIGHWAYS.

BJ4462

BJ4462 TO REACH THE STATION FROM THE INTERSECTION OF U.S. 61 AND

BJ4462 INTERSTATE 10 DRIVE WEST ALONG INTERSTATE 10 FOR 0.4 MILES TO

BJ4462 STATION ON THE LEFT IN MEDIAN.

BJ4462

BJ4462 THE STATION MARKS ARE STANDARD LOUISIANA DEPARTMENT OF HIGHWAYS

BJ4462 AND U.S. COAST AND GEODETIC SURVEY DISKS STAMPED 3H019 1978. THE

BJ4462 SURFACE DISK IS SET IN TOP OF A 12-INCH ROUND CONCRETE MONUMENT

BJ4462 THAT IS FLUSH WITH THE GROUND SURFACE. THE STATION IS 138 FEET

BJ4462 SOUTHWEST OF WEST RAIL OF RAILROAD, 69.50 FEET SOUTH SOUTHWEST OF

BJ4462 MIDDLE PILING OF WEST BOUND LANE, 22.50 FEET NORTH NORTHWEST OF

BJ4462 CENTER LINE OF EAST BOUND LANE OF INTERSTATE 10, 3 FEET NORTH

BJ4462 OF NORTHWEST CORNER OF ABUTMENT OF A BRIDGE ON THE EAST BOUND

BJ4462 LANE OF INTERSTATE 10, 2 FEET EAST METAL WITNESS POST AND SIGN.

BJ4462 THE SUB-SURFACE DISK IS SET IN TOP OF AN IRREGULAR MASS OF

BJ4462 CONCRETE ABOUT 36 INCHES BELOW THE GROUND SURFACE.

BJ4462

BJ4462

STATION RECOVERY (1991)

BJ4462

BJ4462 RECOVERY NOTE BY LA TRANSP AND DEV 1991

BJ4462 THE STATION IS LOCATED 19.0 MI (30.6 KM) NORTHWEST OF LAPLACE, 8.0 MI

BJ4462 (12.9 KM) EAST-NORTHEAST OF DONALDSONVILLE AND 2.5 MI (4.0 KM)

BJ4462 SOUTHEAST OF SORRENTO, IN THE SOUTHWEST QUARTER OF SECTION 21, T 10 S,

BJ4462 R 4 E. OWNERSHIP--LOUISIANA DEPARTMENT OF TRANSPORTATION AND

BJ4462 DEVELOPMENT.

BJ4462 TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 61 AND

BJ4462 INTERSTATE HIGHWAY 10, JUST SOUTH OF SORRENTO, GO WEST FOR 0.4 MI

BJ4462 (0.6 KM) ON INTERSTATE 10 TO THE STATION ON THE LEFT, SET IN THE

BJ4462 MEDIAN OF THE INTERSTATE NEAR THE NORTHWEST CORNER OF THE EAST BOUND

BJ4462 BRIDGE, JUST NORTH OF A RAILROAD OVERPASS.

BJ4462 THE STATION IS 54.0 FT (16.5 M) SOUTH-SOUTHWEST FROM A CONCRETE PILING

BJ4462 UNDER THE WEST BOUND LANE BRIDGE, 22.5 FT (6.9 M) NORTH FROM THE

BJ4462 CENTER OF THE EAST BOUND LANES, 3.0 FT (0.9 M) NORTH FROM THE

BJ4462 NORTHWEST CORNER OF THE EAST BOUND BRIDGE ABUTMENT, 4.5 FT (1.4 M)

BJ4462 EAST-NORTHEAST FROM A FIBERGLASS WITNESS POST, 2.0 FT (0.6 M) EAST

BJ4462 FROM A METAL WITNESS POST WITH A SIGN ATTACHED, FLUSH WITH THE GROUND

BJ4462 AND ABOUT 1.0 FT (0.3 M) BELOW THE LEVEL OF THE HIGHWAY.

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1      National Geodetic Survey,  Retrieval Date = MARCH 28, 1994
BJ4803 *****
BJ4803 DESIGNATION - THOMPSON
BJ4803 PID - BJ4803
BJ4803 STATE/COUNTY- LA/EAST BATON ROUGE
BJ4803 USGS QUAD - ZACHARY
BJ4803
BJ4803 HORZ DATUM - NAD 83 (1992)
BJ4803 VERT DATUM - NAVD 88
BJ4803
BJ4803 POSITION - 30 42 20.90103(N) 091 11 27.06614(W) ADJUSTED
BJ4803 92 minus 83 -00.01834 +00.00337 ADJUSTED
BJ4803 83 minus 27 - +00.66430 +00.38929 NADCON
BJ4803
BJ4803 HEIGHT - 38.0 (meters) 125. (feet) GPS OBS
BJ4803 88 minus 29 - +0.0 VERTCON
BJ4803 *****
BJ4803 LAPLACE CORR- -0.24 DEFLEC93
BJ4803 GEOID HEIGHT- -27.59 GEOID93
BJ4803 ELLIP HEIGHT- 10.676
BJ4803 X - -114071.047
BJ4803 Y - -5487541.695
BJ4803 Z - 3237898.247
BJ4803
BJ4803 HORZ ORDER - B
BJ4803 ELLP ORDER - FOURTH CLASS 2
BJ4803
BJ4803 The horizontal coordinates were established by GPS observations
BJ4803 and adjusted by the National Geodetic Survey in September 1992.
BJ4803
BJ4803 The orthometric height was determined by GPS observations.
BJ4803
BJ4803 The Laplace correction was computed from DEFLEC93 derived deflections.
BJ4803
BJ4803 The geoid height was determined by GEOID93.
BJ4803
BJ4803 The ellipsoidal height was determined by GPS observations
BJ4803 and reference to NAD83.
BJ4803
BJ4803 The X, Y, and Z were computed from the position and the ellipsoidal ht.
BJ4803
BJ4803; North East Scale Converg.
BJ4803; SPC LA S - 244,515.573 1,013,649.212 1.00000124 +0 04 16.5 MT
BJ4803; UTM 15 - 3,398,395.591 673,254.090 0.99997030 +0 55 26.5 MT
BJ4803
BJ4803; Primary Azimuth Mark Grid Az
BJ4803; SPC LA S - THOMPSON AZ MK 031 02
BJ4803; UTM 15 - THOMPSON AZ MK 030 11
BJ4803
BJ4803 -----
BJ4803 Pid Reference Object Distance Geod. AZ
BJ4803 dddmmss.s
BJ4803 THOMPSON RM 4 26.262 METERS 01851
BJ4803 BJ5284 THOMPSON AZ MK 351.586 METERS 03106
BJ4803 BJ4806 ZACHARY GSU MICROWAVE APPROX. 9.0 KM 2150935.2
BJ4803 THOMPSON RM 1 38.679 METERS 24805
BJ4803 BJ4843 ST FRANCISVILLE ZELLERBACH TK APPROX.12.3 KM 2720857.2
BJ4803 BJ4867 STARHILL ATT MICROWAVE APPROX.15.7 KM 2932549.0
BJ4803 THOMPSON RM 3 31.544 METERS 29517
BJ4803 BJ4837 ST FRANCISVILLE TRAN GAS CO MW APPROX. 8.5 KM 3000321.7
BJ4803 THOMPSON RM 5 32.728 METERS 30842
BJ4803 THOMPSON RM 2 39.276 METERS 35924
BJ4803 -----
BJ4803
BJ4803 STATION MARK IS A TRIANGULATION STATION DISK
BJ4803 WITH SETTING: SET IN TOP OF CONCRETE MONUMENT (ROUND)
BJ4803 THE MARK IS STAMPED: THOMPSON 1966

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BJ4803 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
BJ4803+STABILITY: SURFACE MOTION
BJ4803 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
BJ4803+SATELLITE: SATELLITE OBSERVATIONS - February 28, 1992

BJ4803	HISTORY	- Year Condition	Recov. By
BJ4803	HISTORY	- 1966 STATION MONUMENTED	COAST AND GEODETIC SURVEY
BJ4803	HISTORY	- 1967 GOOD	COAST AND GEODETIC SURVEY
BJ4803	HISTORY	- 1970 GOOD	NATIONAL GEODETIC SURVEY
BJ4803	HISTORY	- 1985 GOOD	LA TRANSP AND DEV
BJ4803	HISTORY	- 1987 GOOD	NATIONAL GEODETIC SURVEY
BJ4803	HISTORY	- 1988 GOOD	LA TRANSP AND DEV
BJ4803	HISTORY	- 1991 GOOD	LA TRANSP AND DEV

BJ4803
BJ4803 STATION DESCRIPTION
BJ4803

BJ4803 DESCRIBED BY COAST AND GEODETIC SURVEY 1966 (EGC)
BJ4803 STATION IS LOCATED ABOUT 3 MILES WEST-SOUTHWEST OF THE TOWN OF
BJ4803 SLAUGHTER, 4-1/2 MILES NORTHWEST OF THE TOWN OF ZACHARY, 0.1 MILE
BJ4803 SOUTH OF THE EAST BATON ROUGE-FELICIANA COUNTY LINE AND ON LAND
BJ4803 WHICH IS OWNED AND OCCUPIED BY A MR. F.M. THOMPSON. STATION MARK IS
BJ4803 55 FEET SOUTHEAST OF THE CENTER OF A GRAVELED ROAD, 46.4 FEET SOUTH
BJ4803 OF THE CENTER POST OF A DOUBLE METAL GATE, 27.8 FEET SOUTHWEST OF
BJ4803 A FENCELINE, 22.2 FEET SOUTHEAST OF A FENCELINE WHICH
BJ4803 PARALLELS THE GRAVELED ROAD, 21.3 FEET EAST OF AN 8-INCH GATE
BJ4803 POST AND 14.9 FEET NORTHEAST OF A FENCELINE.

BJ4803 ALL MARKS ARE STANDARD DISKS, SET IN THE TOP OF ROUND CONCRETE
BJ4803 MONUMENTS.

BJ4803 STATION MARK DISK IS STAMPED THOMPSON 1966 AND THE MARK PROJECTS
BJ4803 ABOUT 2 INCHES.

BJ4803 REFERENCE MARK NUMBER 1 DISK IS STAMPED THOMPSON NO 1 1966 AND THE
BJ4803 MARK PROJECTS ABOUT 2 INCHES. MARK IS 19 FEET NORTHEAST OF THE
BJ4803 CENTER OF A LANE ROAD WHICH LEADS NORTHWEST FROM THE GRAVELED ROAD,
BJ4803 18-1/2 FEET NORTHWEST OF THE CENTER OF THE GRAVELED ROAD AND 1.2
BJ4803 FEET SOUTHEAST OF A FENCELINE.

BJ4803 REFERENCE MARK NUMBER 2 DISK IS STAMPED THOMPSON NO 2 1966 AND THE
BJ4803 MARK PROJECTS ABOUT 1 INCH. MARK IS 83.3 FEET NORTH OF THE CENTER
BJ4803 POST TO THE DOUBLE METAL GATE, 19-1/2 FEET NORTHWEST OF THE CENTER
BJ4803 OF THE GRAVELED ROAD, 2.5 FEET WEST OF A 20-INCH OAK TREE, 1.6 FEET
BJ4803 SOUTHEAST OF A FENCELINE AND ABOUT 2 FEET HIGHER ELEVATION THAN
BJ4803 THE GRAVELED ROAD.

BJ4803 AZIMUTH MARK DISK IS STAMPED THOMPSON 1966 AND THE MARK PROJECTS
BJ4803 ABOUT 1 INCH. MARK IS 49-1/2 FEET SOUTHEAST OF THE CENTER OF THE
BJ4803 GRAVELED ROAD, 25.5 FEET EAST-SOUTHEAST OF THE SOUTHWEST ONE OF TWO
BJ4803 GATE POSTS, 17.5 FEET WEST-SOUTHWEST OF THE SOUTHWEST CORNER OF A
BJ4803 WOOD FRAME HOUSE, 2.2 FEET SOUTHEAST OF A METAL WITNESS POST
BJ4803 AND 1 FOOT NORTHEAST OF A FENCELINE.

BJ4803 STATION IS REACHED FROM THE POST OFFICE WHICH IS ABOUT 400 FEET WEST
BJ4803 OF THE RAILROAD DEPOT IN THE TOWN OF SLAUGHTER. GO WESTERLY ON
BJ4803 STATE HIGHWAY 412 FOR 1.65 MILES TO A GRAVELED SIDE ROAD LEFT (THIS
BJ4803 POINT IS ABOUT 100 FEET EAST OF A RAILROAD TRACK). TURN LEFT AND
BJ4803 FOLLOW THE GRAVELED ROAD FOR 0.1 MILE. TURN LEFT AND GO
BJ4803 SOUTHWESTERLY ON A GRAVELED ROAD FOR 1.45 MILES TO A HOUSE AND
BJ4803 THE AZIMUTH MARK ON THE LEFT. CONTINUE STRAIGHT AHEAD ON THE
BJ4803 GRAVELED ROAD FOR 0.2 MILE TO THE STATION ON THE LEFT, AS
BJ4803 DESCRIBED ABOVE.

BJ4803 HEIGHT OF LIGHT ABOVE STATION MARK 38 METERS.

BJ4803
BJ4803 STATION RECOVERY (1967)
BJ4803

BJ4803

BJ4803 RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1967 (AKH)
BJ4803 THE STATION WAS VISITED 3-31-67 AND THE STATION AND AZIMUTH MARK WERE
BJ4803 FOUND IN GOOD CONDITION. RM NO. 1 AND RM NO. 2 WERE LYING ON TOP OF
BJ4803 GROUND. THEY WERE REPLACED IN GROUND AND USED AS RM NO. 3 AND RM
BJ4803 NO. 4. (MARKS WERE UPROOTED BY PERMISSION.) A NEW DESCRIPTION
BJ4803 FOLLOWS--

BJ4803

BJ4803 THE STATION IS LOCATED 3 MILES WSW OF SLAUGHTER, 4.5 MILES NW OF
BJ4803 ZACHARY AND 1 MILE S OF THE EAST BATON ROUGE-EAST FELICIANA COUNTY
BJ4803 LINE, ON LAND OWNED BY MR. F.M. THOMPSON. THE STATION MARK IS IN A
BJ4803 CATTLE LANE AND 61 FT. SE OF THE CENTERLINE OF ROAD, 46 FT. S OF
BJ4803 THE CENTER POST OF A DOUBLE GATE, 27 FT. SW OF A FENCE LINE, 21 FT.
BJ4803 SE OF FENCE LINE WHICH PARALLELS THE GRAVELED ROAD, 15 FT. NE OF A
BJ4803 FENCE LINE, 21 FT. E OF A 10-INCH GATE POST, 141 FT. N OF A POWER
BJ4803 POLE IN FENCE LINE. IT IS A STANDARD TRIANGULATION STATION DISK
BJ4803 STAMPED THOMPSON 1966.

BJ4803

BJ4803 REFERENCE MARK NO. 3 IS 103.46 FT. WNW OF STATION, 40 FT. NW OF THE
BJ4803 CENTERLINE OF ROAD, 5 FT. SW OF SOUTHWEST END OF METAL GATE, 1 FOOT
BJ4803 SE OF FENCE LINE, 91 FT. NE OF FENCE CORNER, 1 FOOT SW OF METAL
BJ4803 WITNESS POST. IT IS A STANDARD REFERENCE MARK DISK STAMPED
BJ4803 THOMPSON 1966 NO. 3 1967, PROJECTS 6 INCHES.

BJ4803

BJ4803 REFERENCE MARK NO. 4 IS 86.32 FT. NE OF STATION, 40 FT. SE OF THE
BJ4803 CENTERLINE OF ROAD, 26 FT. NE OF EAST GATE POST, 1 FOOT NW OF FENCE
BJ4803 LINE, 1 FOOT SW OF A METAL WITNESS POST. IT IS A STANDARD DISK
BJ4803 STAMPED THOMPSON 1966 NO. 4 1967, PROJECTS 2 INCHES.

BJ4803

BJ4803 THE AZIMUTH MARK IS 0.2 MILE NE OF THE STATION, 50 FT. SE OF THE
BJ4803 CENTERLINE OF A DIRT ROAD, 26 FT. SE OF THE SOUTHWEST ONE OF TWO
BJ4803 TALL GATE POSTS. 1 FOOT NE OF A FENCE LINE, 18 FT. WNW OF THE
BJ4803 NORTHWEST CORNER OF A TENANT HOUSE, 1 FOOT SE OF A METAL WITNESS
BJ4803 POST. IT IS A STANDARD DISK STAMPED THOMPSON 1966, PROJECTS ABOUT 2
BJ4803 INCHES.

BJ4803

BJ4803 TO REACH THE STATION FROM THE POST OFFICE IN SLAUGHTER, GO WEST ON
BJ4803 STATE HIGHWAY 412 FOR 1.65 MILES TO A GRAVELED ROAD LEFT, JUST
BJ4803 BEFORE CROSSING RAILROAD TRACKS, TURN LEFT AND GO 0.1 MILE TURN LEFT
BJ4803 AND GO 1.45 MILES TO AZIMUTH MARK ON THE LEFT CONTINUE FOR 0.2 MILE
BJ4803 TO STATION ON THE LEFT IN CATTLE LANE.

BJ4803

BJ4803 HEIGHT OF LIGHT ABOVE STATION MARK 1 METER.

BJ4803

BJ4803 AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--3 MILES WSW OF
BJ4803 SLAUGHTER.

BJ4803

BJ4803

BJ4803

BJ4803

STATION RECOVERY (1970)

BJ4803

BJ4803 RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970 (WWS)
BJ4803 THE STATION MARK AND THE AZIMUTH MARK WERE RECOVERED AND FOUND IN
BJ4803 GOOD CONDITION. REFERENCE MARK 1 AND 2 HAS BEEN DESTROYED.
BJ4803 REFERENCE MARKS 3 AND 4 WERE ESTABLISHED BY THE MARK MAINTENANCE
BJ4803 IN 1967. THE DIRECTION AND DISTANCE TO THE AZIMUTH MARK AND
BJ4803 REFERENCE MARK 3 AND 4 CHECKED THE 1966 AND 1967 DATA ADEQUATELY.

BJ4803

BJ4803 THE STATION IS LOCATED ABOUT 4.0 MILES NORTHWEST OF ZACHARY, 2.5
BJ4803 MILES WEST-SOUTHWEST OF SLAUGHTER, 1.5 MILES NORTHEAST OF PLAINS AND
BJ4803 ON LAND OWNED BY MR. F.M. THOMPSON, ROUTE 1, BOX 252, ZACHARY,
BJ4803 LOUISIANA 70791, TELEPHONE NUMBER 654-2152.

BJ4803

BJ4803 TO REACH THE STATION FROM THE POST OFFICE IN SLAUGHTER, GO WEST ON
BJ4803 STATE HIGHWAY 412 FOR 1.65 MILES TO A GRAVELED SIDE ROAD, JUST
BJ4803 BEFORE REACHING A RAILROAD CROSSING. TURN LEFT AND GO SOUTH AND
BJ4803 SOUTHWEST ON A GRAVELED ROAD FOR 0.1 MILE TO A GRAVELED T-ROAD.
BJ4803 TURN LEFT AND GO SOUTHWEST ON THE GRAVELED ROAD FOR 1.45 MILES TO

BJ4803 THE AZIMUTH MARK ON THE LEFT, CONTINUE SOUTHERLY ON THE GRAVELED
BJ4803 ROAD FOR 0.1 MILE TO A PAVED ROAD, CONTINUE SOUTHERLY ON THE PAVED
BJ4803 ROAD FOR 0.1 MILE TO THE STATION ON THE LEFT.
BJ4803
BJ4803 THE STATION MARK IS A STANDARD DISK, STAMPED THOMPSON 1966, SET IN
BJ4803 THE TOP OF A 12-INCH CYLINDRICAL CONCRETE MONUMENT THAT IS 1 INCH
BJ4803 BELOW THE GROUND SURFACE. IT IS 61 FEET SOUTHEAST OF THE CENTER
BJ4803 OF THE PAVED ROAD, 39 FEET SOUTH OF THE CENTER OF A METAL GATE
BJ4803 AND 28 FEET SOUTHWEST OF A FENCE.
BJ4803
BJ4803 REFERENCE MARK 3 IS A STANDARD DISK, STAMPED THOMPSON NO 3 1966 1967,
BJ4803 SET IN THE TOP OF A 12-INCH CYLINDRICAL CONCRETE MONUMENT THAT
BJ4803 PROJECTS 7 INCHES ABOVE THE GROUND SURFACE. IT IS 43 FEET
BJ4803 WEST-NORTHWEST OF THE CENTER OF THE PAVED ROAD, 6 FEET
BJ4803 EAST-SOUTHEAST OF A FENCE AND 1 FOOT SOUTH OF A METAL WITNESS POST.
BJ4803
BJ4803 REFERENCE MARK 4 IS A STANDARD DISK, STAMPED THOMPSON NO 4 1966 1967,
BJ4803 SET IN THE TOP OF A 12-INCH CYLINDRICAL CONCRETE MONUMENT THAT IS
BJ4803 FLUSH WITH THE GROUND SURFACE. IT IS 40 FEET SOUTHEAST OF THE
BJ4803 PAVED ROAD, 1 FOOT NORTHWEST OF A FENCE AND 1 FOOT SOUTHWEST OF A
BJ4803 METAL WITNESS POST.
BJ4803
BJ4803 AZIMUTH MARK IS A STANDARD DISK, STAMPED THOMPSON 1966, SET IN THE
BJ4803 TOP OF A 12-INCH CYLINDRICAL CONCRETE MONUMENT THAT PROJECTS 1 INCH
BJ4803 ABOVE THE GROUND SURFACE. IT IS 51 FEET SOUTHEAST OF THE CENTER OF
BJ4803 THE GRAVELED ROAD 17 FEET WEST-SOUTHWEST OF THE SOUTHWEST CORNER
BJ4803 OF A FRAME HOUSE AND 0.8 FEET SOUTHWEST OF A METAL WITNESS POST.
BJ4803
BJ4803 HEIGHT OF LIGHT ABOVE STATION MARK 38.7 METERS.
BJ4803
BJ4803 AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--2.5 MILES
BJ4803 WEST-SOUTHWEST OF SLAUGHTER.
BJ4803
BJ4803

STATION RECOVERY (1985)

BJ4803 RECOVERY NOTE BY LA TRANSP AND DEV 1985 (TLH)
BJ4803 THE SURFACE STATION MARK, REFERENCE MARK 4 AND THE AZIMUTH MARK WERE
BJ4803 RECOVERED AND FOUND IN GOOD CONDITION. REFERENCE MARK 3 WAS FOUND
BJ4803 DESTROYED. THE DISTANCE AND DIRECTION TO REFERENCE MARK 4 MISSED THE
BJ4803 PREVIOUS PUBLISHED DATA. REFERENCE MARK 5 WAS ESTABLISHED THIS DATE.
BJ4803 THE FOLLOWING IS A COMPLETE NEW DESCRIPTION.
BJ4803
BJ4803 THE STATION IS LOCATED ABOUT 4.8 KM (3 MILES) WEST-SOUTHWEST OF
BJ4803 SLAUGHTER, 7.2 KM (4.5 MI) NORTHWEST OF ZACHARY, AND 0.16 KM (0.1
BJ4803 MILE) SOUTH OF THE PARISH LINE. PROPERTY OWNERSHIP--MR. F. M.
BJ4803 THOMPSON.
BJ4803
BJ4803 TO REACH THE STATION FROM THE POST OFFICE IN THE TOWN OF SLAUGHTER,
BJ4803 DRIVE WESTERLY ON STATE HIGHWAY 412 FOR 2.6 KM (1.65 MI) TO A
BJ4803 GRAVELED SIDE ROAD LEFT, THENCE LEFT AND FOLLOW THE GRAVELED ROAD FOR
BJ4803 0.2 KM (0.1 MI), THENCE LEFT AND GO SOUTHWESTERLY ON A GRAVELED ROAD
BJ4803 FOR 2.3 KM (1.45 MI) TO A HOUSE AND THE AZIMUTH MARK ON THE LEFT.
BJ4803 CONTINUE STRAIGHT AHEAD ON THE GRAVELED ROAD FOR 0.3 KM (0.2 MI) TO
BJ4803 THE STATION ON THE LEFT.
BJ4803
BJ4803 THE STATION IS A STANDARD US COAST AND GEODETIC SURVEY (NOW NOS) DISK
BJ4803 STAMPED---THOMPSON 1966---SET INTO THE TOP OF A ROUND CONCRETE
BJ4803 MONUMENT 30 CM (12 INCHES) IN DIAMETER FLUSH WITH THE GROUND LOCATED
BJ4803 27.8 METERS (91.5 FEET) ENE FROM A POWER POLE, 18.6 METERS (61 FEET)
BJ4803 WNW FROM THE CENTER OF A PAVED ROAD, 6.4 METERS (21 FEET) WNW FROM A
BJ4803 METAL WITNESS POST, AND 6.2 METERS (20.5 FEET) WNW FROM A NET WIRE
BJ4803 FENCE.
BJ4803
BJ4803 THE UNDERGROUND MARK IS A STANDARD US COAST AND GEODETIC SURVEY (NOW
BJ4803 NOS) DISK STAMPED---THOMPSON 1966---SET INTO AN IRREGULAR MASS OF
BJ4803 CONCRETE 0.9 METER (3 FEET) BELOW THE SURFACE.

BJ4803
BJ4803 REFERENCE MARK NO. 4 IS A STANDARD US COAST AND GEODETIC SURVEY (NOW
BJ4803 NOS) DISK STAMPED---THOMPSON 1966 NO 4 1967---SET INTO THE TOP OF A
BJ4803 ROUND CONCRETE MONUMENT 30 CM (12 INCHES) IN DIAMETER FLUSH WITH THE
BJ4803 GROUND LOCATED 22.9 METERS (75 FEET) NNE FROM A POWER POLE, 11.9
BJ4803 METERS (39 FEET) NW FROM THE CENTER OF A PAVED ROAD, 1.5 METERS (5
BJ4803 FEET) W FROM A NET WIRE FENCE, AND 1.5 METERS (5 FEET) SW FROM A
BJ4803 METAL WITNESS POST.

BJ4803
BJ4803 REFERENCE MARK NO. 5 IS A STANDARD US COAST AND GEODETIC SURVEY (NOW
BJ4803 NOS) DISK STAMPED---THOMPSON 1966 NO 5 1985---SET INTO THE TOP OF A
BJ4803 ROUND CONCRETE MONUMENT 30 CM (12 INCHES) IN DIAMETER LOCATED 14.6
BJ4803 METERS (48 FEET) W FROM THE CENTER OF A PAVED ROAD, 0.61 METER (2
BJ4803 FEET) E FROM A NET WIRE FENCE, AND 0.6 METER (2 FEET) SE FROM A METAL
BJ4803 WITNESS POST.

BJ4803
BJ4803 AZIMUTH MARK IS A STANDARD US COAST AND GEODETIC SURVEY (NOW NOS)
BJ4803 DISK STAMPED---THOMPSON 1966---SET INTO THE TOP OF A ROUND CONCRETE
BJ4803 MONUMENT 30 CM (12 INCHES) IN DIAMETER PROJECTING 2.5 CM (1 INCH)
BJ4803 ABOVE THE GROUND LOCATED 15.09 METERS (49.5 FEET) SE FROM THE CENTER
BJ4803 OF THE GRAVELED ROAD, 5.33 METERS (17.5 FEET) WSW FROM THE SOUTHWEST
BJ4803 CORNER OF A WOOD FRAME HOUSE, AND NE FROM A ME.

BJ4803
BJ4803 TO REACH THE AZIMUTH MARK FROM THE STATION, DRIVE NORTH ON GRAVELED
BJ4803 ROAD FOR 0.3 KM (0.2 MI) TO THE AZIMUTH MARK ON THE RIGHT.

BJ4803
BJ4803
BJ4803 STATION RECOVERY (1987)

BJ4803
BJ4803 RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1987 (EDW)
BJ4803 THE DESIGNATED MARK WAS RECOVERED WITH CHANGES NOTED BELOW--
BJ4803 THE STATION MARK WAS RECOVERED IN GOOD CONDITION AND USED FOR GPS
BJ4803 OBSERVATIONS.

BJ4803
BJ4803 THE STATION IS LOCATED ABOUT 7.2 KM (4.5 MI)
BJ4803 NORTHWEST OF ZACHARY, 4.8 KM (3 MI) WEST-SOUTHWEST OF SLAUGHTER AND
BJ4803 0.16 KM (0.1 MI) SOUTH OF THE PARISH LINE.
BJ4803 OWNERSHIP--MRS. BERTHA K. THOMPSON. TELEPHONE 504-654-2152.

BJ4803
BJ4803 TO REACH THE STATION FROM THE POST OFFICE IN THE TOWN OF SLAUGHTER
BJ4803 GO WESTERLY ON STATE HIGHWAY 412 FOR 2.6 KM (1.65 MI) TO A GRAVELED
BJ4803 SIDE ROAD LEFT. TURN LEFT AND FOLLOW THE GRAVELED ROAD FOR 0.2 KM
BJ4803 (0.1 MI), THEN LEFT AND GO SOUTHWESTERLY ON A GRAVELED ROAD FOR 2.3
BJ4803 KM (1.45 MI) TO A HOUSE AND THE AZIMUTH MARK ON THE LEFT. CONTINUE
BJ4803 STRAIGHT AHEAD ON THE GRAVELED ROAD FOR 0.3 KM (0.2 MI) TO THE
BJ4803 STATION ON THE LEFT.

BJ4803
BJ4803 THE STATION IS A STANDARD CGS DISK
BJ4803 STAMPED---THOMPSON 1966---,
BJ4803 SET INTO THE TOP OF A ROUND CONCRETE MONUMENT
BJ4803 30 CM IN DIAMETER FLUSH WITH GROUND. LOCATED
BJ4803 27.9 METERS (91.5 FT) EAST-NORTHEAST FROM A POWER POLE,
BJ4803 18.6 METERS (61 FT) WEST-NORTHWEST FROM THE CENTER OF A PAVED ROAD,
BJ4803 6.4 METERS (21 FT) WEST-NORTHWEST FROM A METAL WITNESS POST AND
BJ4803 6.3 METERS (20.5 FT) WEST-NORTHWEST FROM A NET WIRE FENCE.
BJ4803 THE UNDERGROUND MARK IS A STANDARD CGS DISK
BJ4803 STAMPED---THOMPSON 1966---,
BJ4803 SET INTO AN IRREGULAR MASS OF CONCRETE 0.9 METER BELOW THE SURFACE.

BJ4803
BJ4803 DESCRIBED BY R.A. BRANCH. TYPED BY WJR.

BJ4803
BJ4803
BJ4803 STATION RECOVERY (1988)

BJ4803
BJ4803 RECOVERY NOTE BY LA TRANSP AND DEV 1988
BJ4803 TEXT WAS SUPERSEDED BY LATER RECOVERY.
BJ4803

BJ4803

STATION RECOVERY (1991)

BJ4803

RECOVERY NOTE BY LA TRANSP AND DEV 1991

THE STATION IS LOCATED ABOUT 11.0 MI (17.7 KM) SOUTHEAST OF JACKSON,

2.5 MI (4.0 KM) WEST-SOUTHWEST OF SLAUGHTER AND 2.5 MI (4.0 KM)

NORTH-NORTHWEST OF ZACHARY. OWNERSHIP--MRS. F. M. THOMPSON.

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 64 AND 964 ON

THE WEST EDGE OF ZACHARY, GO NORTH FOR 2.85 MI (4.59 KM) ON HIGHWAY

964 TO THE JUNCTION OF BRAIN ROAD ON THE RIGHT AND THE PLAINS

SUPERMARKET ON THE LEFT, TURN RIGHT AND GO EAST FOR 1.4 MI (2.3 KM)

ON BRAIN ROAD TO THE STATION ON THE RIGHT.

THE STATION IS 91.5 FT (27.9 M) EAST-NORTHEAST FROM A POWER POLE, 61.0

FT (18.6 M) EAST-SOUTHEAST FROM THE CENTER OF THE PAVED ROAD, 22.0 FT

(6.7 M) EAST-SOUTHEAST FROM A METAL WITNESS POST WITH SIGN ATTACHED,

22.0 FT (6.7 M) EAST-SOUTHEAST FROM A FIBER GLASS WITNESS POST, 21.0

FT (6.4 M) EAST-SOUTHEAST FROM A NET WIRE FENCE, FLUSH WITH THE

GROUND SURFACE AND ABOUT 3.0 FT (0.9 M) ABOVE THE LEVEL OF THE ROAD.