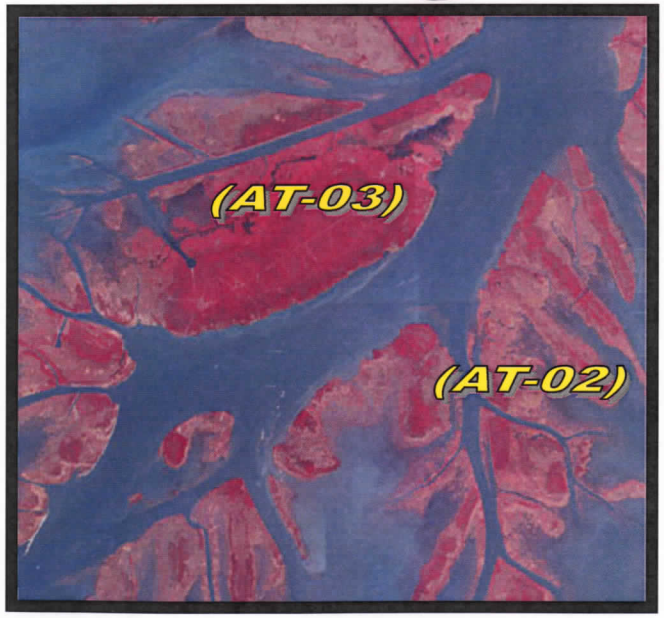
STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

Topographic and Bathymetric Survey
Atchafalaya Sediment Delivery (AT-02)
Big Island Mining (AT-03)

May 2008



Morris P. Hebert, Inc.
client focused solutions

STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

TOPOGRAPHIC AND BATHYMETRIC SURVEY
ATCHAFALAYA SEDIMENT DELIVERY (AT-02)
BIG ISLAND MINING (AT-03)
ST. MARY PARISH, LOUISIANA

FINAL REPORT

May 30, 2008

DNR Contract No. 2503-08-25

PREPARED BY:

Aric Gisclair
Project Manager

Morris P. Hebert, Inc.
client focused solutions

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Morris P. Hebert, Inc.
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FINAL REPORT
TOPOGRAPHIC AND BATHYMETRIC SURVEY
ATCHAFALAYA SEDIMENT DELIVERY (AT-02)
BIG ISLAND MINING (AT-03)
ST. MARY PARISH, LOUISIANA

May 30, 2008

1.0 SCOPE OF WORK

1.1 General

Morris P. Hebert Inc. (MPH) conducted the topographic and bathymetric survey for the Atchafalaya Sediment Delivery (AT-02) and Big Island Mining (AT-03) projects as per the February 2004 Contractors Guide to Minimum Standards as required by Louisiana Department of Natural Resources / Coastal Restoration Division (LDNR/CRD). MPH furnished the necessary equipment, software, supplies, labor and transportation, including fuel needed to complete the work as outlined in the LDNR/CRD Scope of Services.

The field survey work commenced on February 18, 2008 and was completed on May 02, 2008. The office work began in advance of the fieldwork. The final report was submitted on May 30, 2008.

1.2 Horizontal and Vertical Control

Morris P. Hebert Inc. performed a GPS survey utilizing RTK OTF methods. The GPS Total Station survey equipment included the use of a Trimble SCS881 Dual Frequency receiver as a rover and a Trimble Geodetic Model 2 Dual frequency receiver as a base. The Trimble Geodetic Model 2 base station occupied LDNR Louisiana Coastal Zone (LCZ) benchmark monuments "AT02-SM-01" and "AT03-SM01" and rover units were used to collect horizontal and vertical data along the transects. For quality control, the GPS Base Receiver was set up on an existing project control point with established position and elevation and the Rover Receiver was used to check another project control point of known position and elevation. The GPS equipment and control points checked out if the checked position of the control point was within an acceptable tolerance of the known position. Survey data was downloaded and processed utilizing Microsoft Active Sync and Trimble Geomatics Office. The complete RTK Total Station survey method yields accuracies of 1 cm horizontal and 2 cm vertical. Monuments "AT02-SM-01" and "AT03-SM-01", which were used for control, are referenced to the

Lambert Conformal Conic Projection, Louisiana State Plane Coordinate System South Zone, the North American Datum of 1983 (NAD83) and the North American Vertical Datum of 1988 (NAVD88). These monuments were also used to set tide gauges adjacent to the project site.

1.3 RTK Topographic Survey

MPH developed a topographic and bathymetric survey plan based on as-built drawings of the channel baseline (1998) provided by LDNR/CRD. The as-built drawings (1998) were geo-rectified and forty (40) cross sectional transects were established using AutoCAD 2008. The northing and easting coordinates for the survey data are based on the Louisiana Coordinate System (South Zone) NAD83. The elevations are based on the NAVD88 datum.

1.4 Survey Transects

MPH performed the topographic survey of the dredged canals and the various dredge disposal areas that were constructed in 1998. Topographic points were collected along 40 cross sectional transects that traverse the following disposal areas:

AT-02
Natal Channel disposal area #1
Natal Channel disposal area #4
Castille Pass disposal area

AT-03
Disposal area #1
Disposal area #5

All topographic points were collected along the transects at a minimum of 50-ft intervals and at any significant changes in grade using Real Time Kinematic (RTK) GPS survey methods.

1.5 Bathymetric Survey

MPH performed a bathymetric survey along the sub-aqueous portion of the project area. Bathymetric points were collected along the centerline of the channels and along the transects perpendicular to the centerline at 500-ft intervals. Transects were run along each channel from shoreline to shoreline. The bathymetric survey points were collected utilizing Trimble DGPS and Odom EchoTrac Echo sounder in conjunction with the Coastal Oceanographics Hypack Max v6.2 software. A sampling rate of 5 Hz (5 points/second) was used during data collection. The tide corrections were determined using the tide gauges set adjacent to the project area.

MPH performed a bathymetric survey as described above for the following channels:

AT-03-Channel A
Bathymetric points were collected commencing at the intersection of Channel A and the Atchafalaya River and continued Southwesterly every 500 ft until the end of Channel A had been reached utilizing the geo-rectified as-built drawing files to locate and reestablish the survey transects.

AT-03-Channels B and D
Bathymetric points were collected commencing at each of the intersections of Channels B and D and the Atchafalaya River and continued Northwesterly every 500 ft until the end of Channels B and D had been reached utilizing geo-rectified as-built drawings to locate and reestablish the survey transects.

AT-03-Channel C
Bathymetric points were collected commencing at the intersection of Channel C and the Atchafalaya River and continued Southwesterly every 500 ft until the end of Channel C had been reached utilizing geo-rectified as-built drawings to locate and reestablish the survey transects.

AT-03-Channel E
Bathymetric points were collected commencing at the intersection of Channel E and the Atchafalaya River and continued Southeasterly every 500 ft until the end of Channel E had been reached utilizing geo-rectified as-built drawings to locate and reestablish the survey transects.

AT-03-Channel F
Bathymetric points were collected commencing at the intersection of Channel F and the Atchafalaya River and continued Northwesterly every 500 ft until the end of Channel F had been reached utilizing geo-rectified as-built drawings to locate and reestablish the survey transects.

AT-02-Natal Channel
Bathymetric points were collected commencing at the intersection of Natal Channel and East Pass and continued Southeasterly every 500 ft until the end of Natal Channel had been reached utilizing the geo-rectified as-built drawing files to locate and reestablish the survey transects.

AT-02-Castille Pass Channel

Bathymetric points were collected commencing at the intersection of Castille Pass and East Pass and continued Southeasterly every 500 ft until the end of Castille Pass had been reached utilizing the geo-rectified as-built drawing files to locate and reestablish the survey transects.

1.6 Chronological Summary of Work

Project #	Group	Date	Project #	Group	Date
AT-03	CHANNEL A	2/23/2008	AT-03	CHANNEL A	3/27/2008
AT-03	DISPOSAL AREA #1	2/23/2008	AT-03	DISPOSAL AREA #5	3/27/2008
AT-03	CHANNEL A	2/25/2008	AT-03	DISPOSAL AREA #5	3/28/2008
AT-03	DISPOSAL AREA #1	2/25/2008	AT-03	CHANNEL A	4/1/2008
AT-03	CHANNEL D	2/26/2008	AT-03	DISPOSAL AREA #5	4/1/2008
AT-03	CHANNEL B	2/27/2008	AT-03	DISPOSAL AREA #5	4/2/2008
AT-03	CHANNEL B	2/28/2008	AT-02	DISPOSAL AREA #1	4/8/2008
AT-03	CHANNEL B	2/29/2008	AT-03	CHANNEL A	4/9/2008
AT-03	CHANNEL E	2/29/2008	AT-03	CHANNEL B	4/9/2008
AT-03	CHANNEL F	2/29/2008	AT-03	CHANNEL A	4/10/2008
AT-03	CHANNEL C	3/5/2008	AT-03	CHANNEL D	4/10/2008
AT-02	NATAL CHANNEL	3/6/2008	AT-03	DISPOSAL AREA #1	4/10/2008
AT-02	NATAL CHANNEL	3/10/2008	AT-02	CASTILLE PASS DISPOSAL AREA	4/11/2008
AT-02	NATAL CHANNEL	3/11/2008	AT-03	CHANNEL A	4/11/2008
AT-02	DISPOSAL AREA #4	3/15/2008	AT-03	CHANNEL B	4/11/2008
AT-02	DISPOSAL AREA #4	3/17/2008	AT-03	DISPOSAL AREA #1	4/11/2008
AT-02	DISPOSAL AREA #1	3/20/2008	AT-03	CHANNEL A	4/14/2008
AT-02	DISPOSAL AREA #4	3/20/2008	AT-03	CHANNEL D	4/14/2008
AT-02	NATAL CHANNEL	3/20/2008	AT-03	CHANNEL E	4/14/2008
AT-02	DISPOSAL AREA #1	3/21/2008	AT-03	DISPOSAL AREA #1	4/14/2008
AT-03	DISPOSAL AREA #5	3/24/2008	AT-03	DISPOSAL AREA #5	4/14/2008
AT-03	CHANNEL A	3/25/2008	AT-02	CASTILLE PASS DISPOSAL AREA	4/16/2008
AT-03	CHANNEL B	3/25/2008	AT-02	NATAL CHANNEL	4/16/2008
AT-03	CHANNEL C	3/26/2008	AT-03	CHANNEL A	4/16/2008
AT-03	CHANNEL D	3/26/2008	AT-03	DISPOSAL AREA #1	4/16/2008
AT-03	CHANNEL E	3/26/2008	AT-02	NATAL CHANNEL	4/17/2008
AT-03	CHANNEL F	3/26/2008	AT-02	CASTILLE PASS DISPOSAL AREA	4/21/2008
AT-03	DISPOSAL AREA #1	3/26/2008	AT-03	CHANNEL A	5/2/2008
AT-03	DISPOSAL AREA #5	3/26/2008	AT-03	CHANNEL B	5/2/2008
AT-02	CASTILLE PASS CHANNEL	3/27/2008	AT-03	CHANNEL F	5/2/2008
AT-02	NATAL CHANNEL	3/27/2008			

2.0 DELIVERABLES

As requested in the LADNR/CRD Scope of Services the following deliverables are being submitted:

2.1 A report describing the survey methodology employed in the field.

2.2 Four sets of 11" x 17" size plan view drawings showing an overlay of the Lambert Conformal Conic Projection Louisiana State Plane Coordinate System South Zone NAD 83 and drawings showing all survey control points utilized in the survey. Four sets of 11" x 17" size plan and profile drawings, depicting the results of the topographic and bathymetric surveys.

2.3 Four digital copies of drawing files on separate CD disks in AutoCAD (*.dwg) format.

2.4 Four copies to the XYZ survey data on separate CD disks in coma-delimited ASCII format. MPH provided the maximum amount of survey data requested by LDNR that the equipment used would allow. MPH also included additional survey data relevant to the scope of work that was not requested by LDNR. The data is referenced to the Louisiana Coordinate System (South Zone) and North American Datum of 1983 (NAD 83) in U.S. Survey Feet. Elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88) in feet.

2.5 Four printed copies of the survey data.

2.6 Four printed copies of the field notebook records.

3.0 CERTIFICATION

I hereby certify that the report, data and drawings referenced herein were prepared from a field survey conducted on the ground by me or under my direct supervision and control and that the report, data and drawings accurately depict the result of said survey.

Morris P. Hebert, Inc.
283 Corporate Drive
Houma, LA 70360

STATE OF LOUISIANA
GERARD M. LEGENDRE
License No. 4966
PROFESSIONAL
LAND SURVEYOR

Gerard M. Legendre, P.L.S.
Louisiana Registration Number 4966

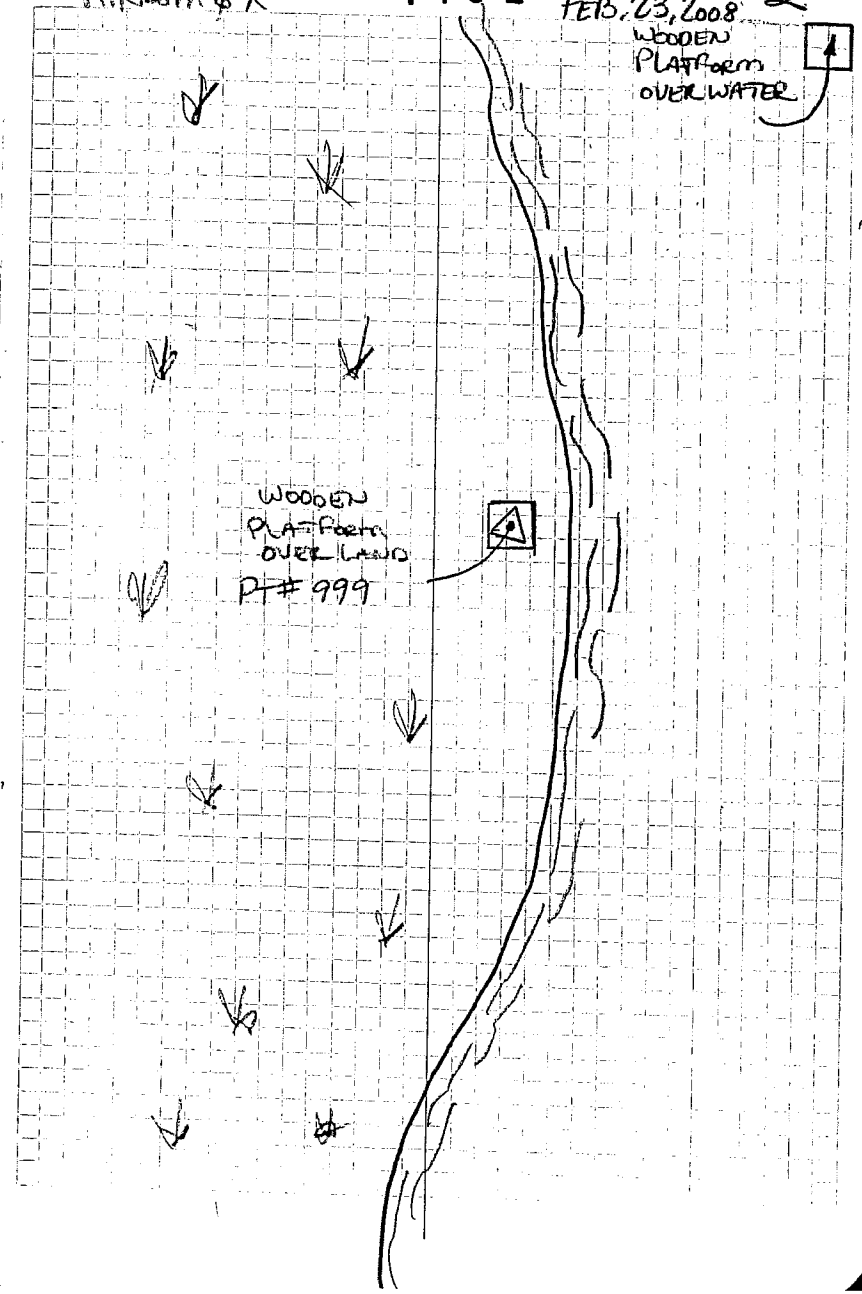
JOB NUMBER DNR ATCHAFALAYA
9714

POINT #	REMARKS
999	lead NAIL IN CENTER of WOODEN PLATFORM N 350353.89 Lost Week E 3295006.86 ELEV. 18.89 (GEOID99 = 17.189)
	CALIBRATED off of AT03-SM-01
1000	N 353352.33 E 3289814.23 ELEV. 3.23 → (GEOID99 = 1.527)
	AT02-SM-01
1001	N 340941.78 E 3297793.92 ELEV. 2.82

C. MASON T. III
R. KRAHN & T

1132

Sunny/warm
FEB. 23, 2008
2



JOB NUMBER
9714 DNR ATCHAFALAYA

C. MASON
R. KROHN

1132

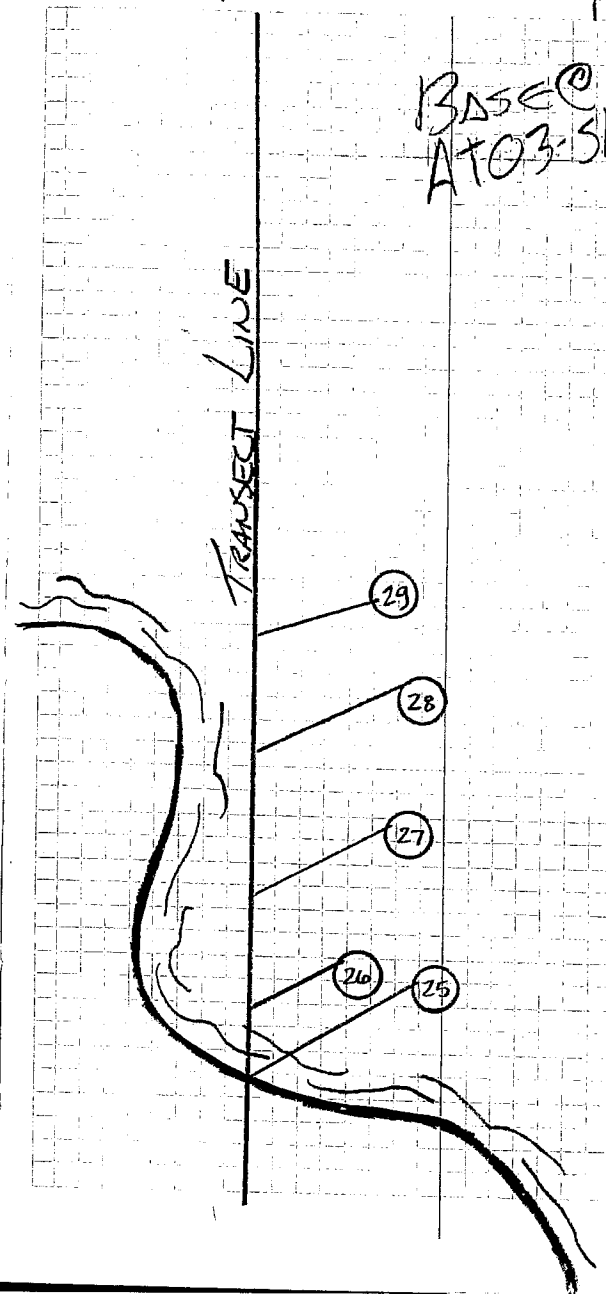
SUNNY/WARM
FEB. 23, 2008

3

TRANSECT LINE
762 - 771

PART #	REMARKS
2025	WATERS EDGE
2026	NATURAL BOTTOM
2027	" "
2028	" "
2029	NATURAL BOTTOM

BASE @
AT03-SM-01



JOB NUMBER
9714 DNRS ATCHAFALAYA

TRANSECT LINE Point #	Remarks
2000	NATURAL GROUND
2001	WATERS EDGE
2002	NATURAL BOTTOM
2003	" "
2004	" "
2005	" "
2006	" "
2007	NATURAL BOTTOM

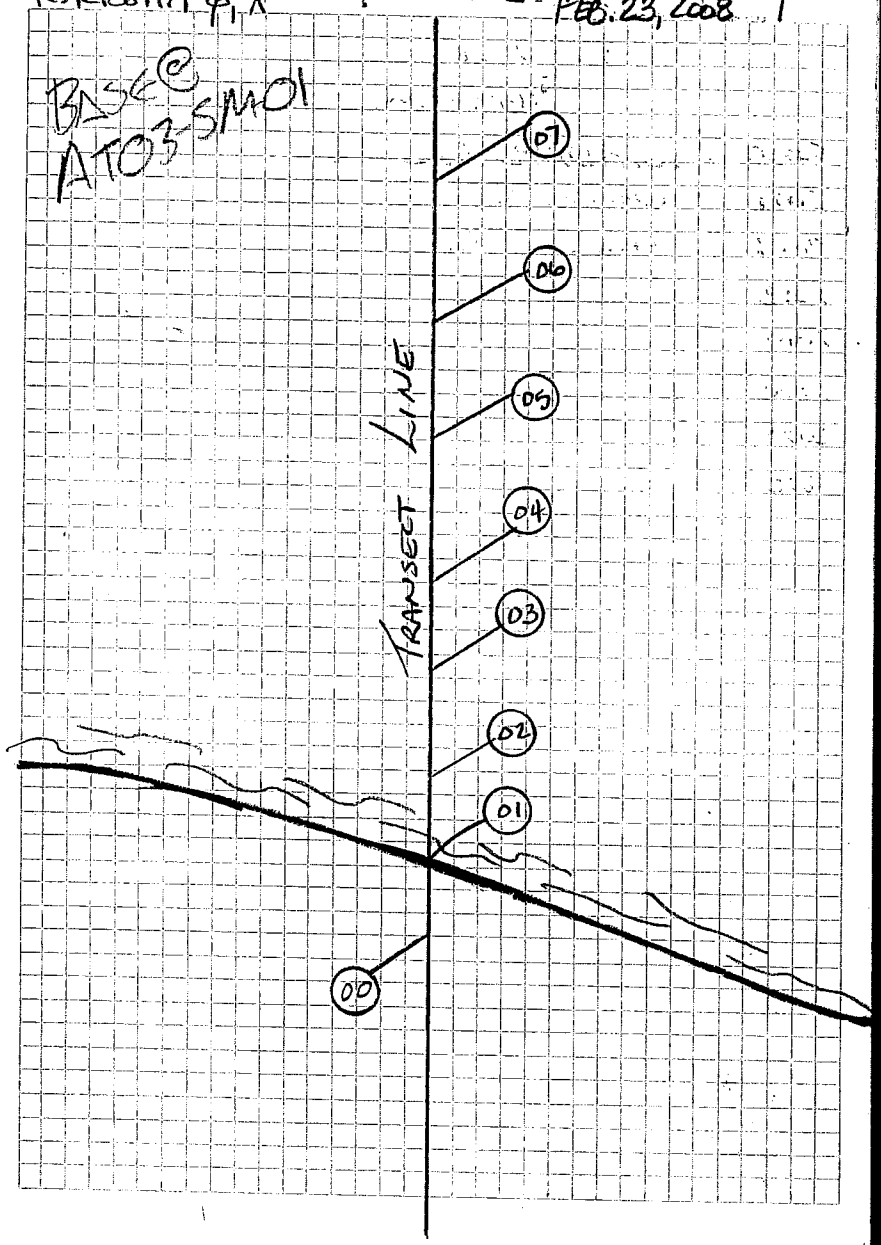
C. MASON T, [illegible]
R. KROHN [illegible] T

11132

Sunny/warm
FEB. 23, 2008

4

BASE @ AT03 SM01



JOB NUMBER 9714 DNR ATCHAFALAYA

TRANSECT LINE

765 - 889

POINT #	REMARKS
2016	NATURAL GROUND
2017	WATERS EDGE
2018	NATURAL BOTTOM
2019	" "
2020	" "
2021	" "
2022	" "
2023	" "
2024	NATURAL BOTTOM

C MASON

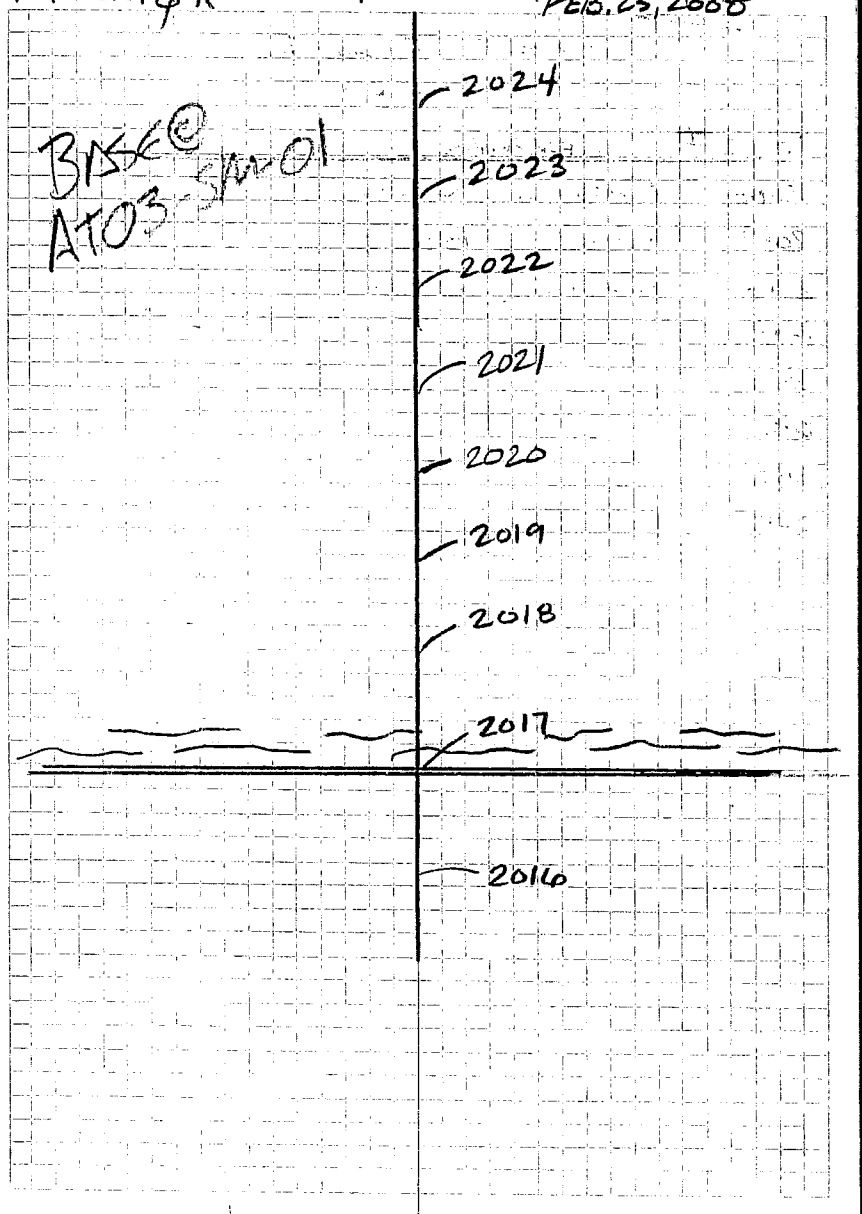
R. KROHN

11-13 2

Sunny/Warm

FEB. 23, 2008

5



JOB NUMBER
9714 DNR ATCHAFALAYA

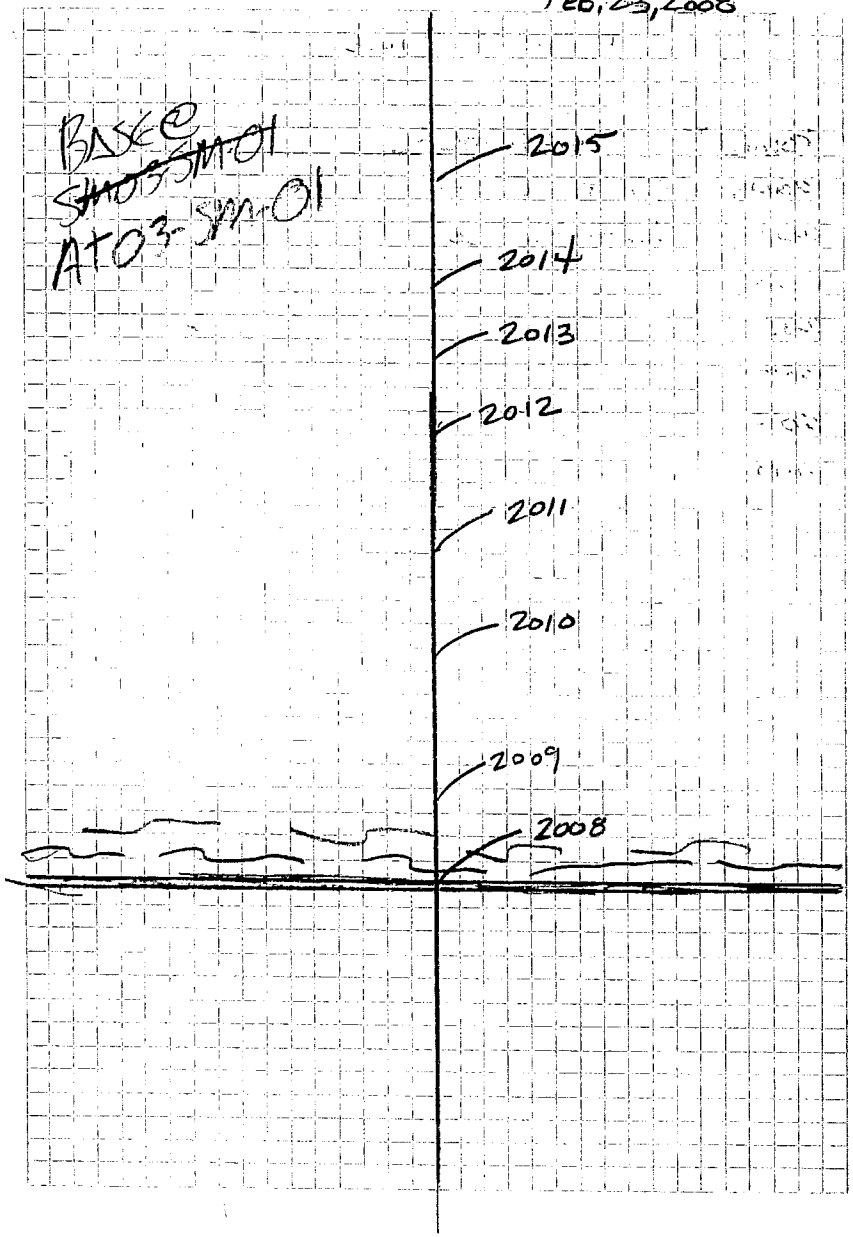
TRANSECT LINE

POINT #	REMARKS
2008	NATURAL GROUND
2009	WATERS EDGE
2010	NATURAL BOTTOM
2011	" "
2012	" "
2013	" "
2014	" "
2015	NATURAL BOTTOM

C. MASON TID
R. KROHN TID

1132

SUNNY/WARM
FEB. 23, 2008



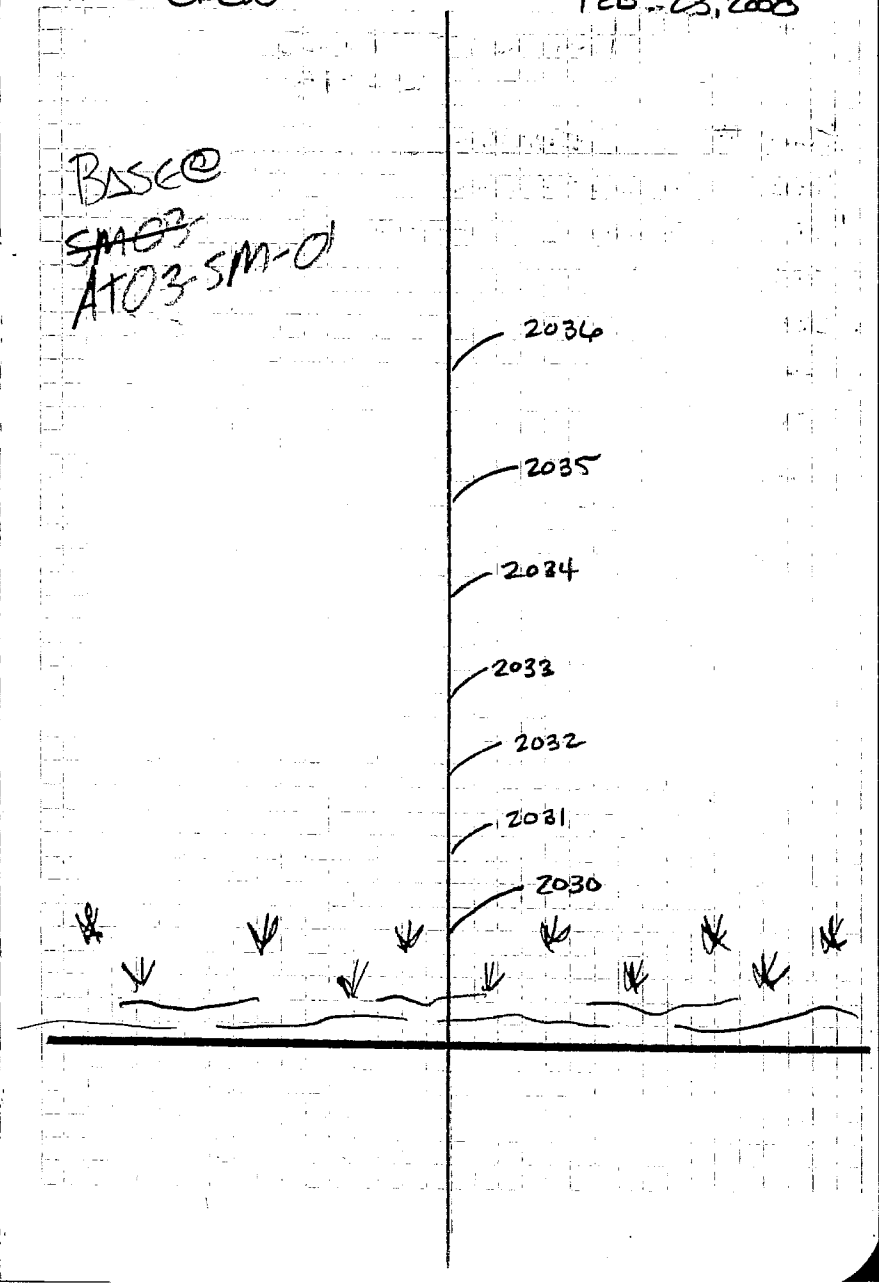
JOB NUMBER
9714 DNR ATCHAFALAYA
TRANSECT LINES
754 - 749

Point #	Remarks
2030	EDGE GRASS
2031	NATURAL BOTTOM
2032	" "
2033	" "
2034	" "
2035	" "
2036	NATURAL BOTTOM

SAME CREW

1132 Sunny/warm
FEB. 23, 2008

BASE @
~~SMO3~~
AT03-SM-01



JOB NUMBER 9714 DNR ATCHAFALAYA

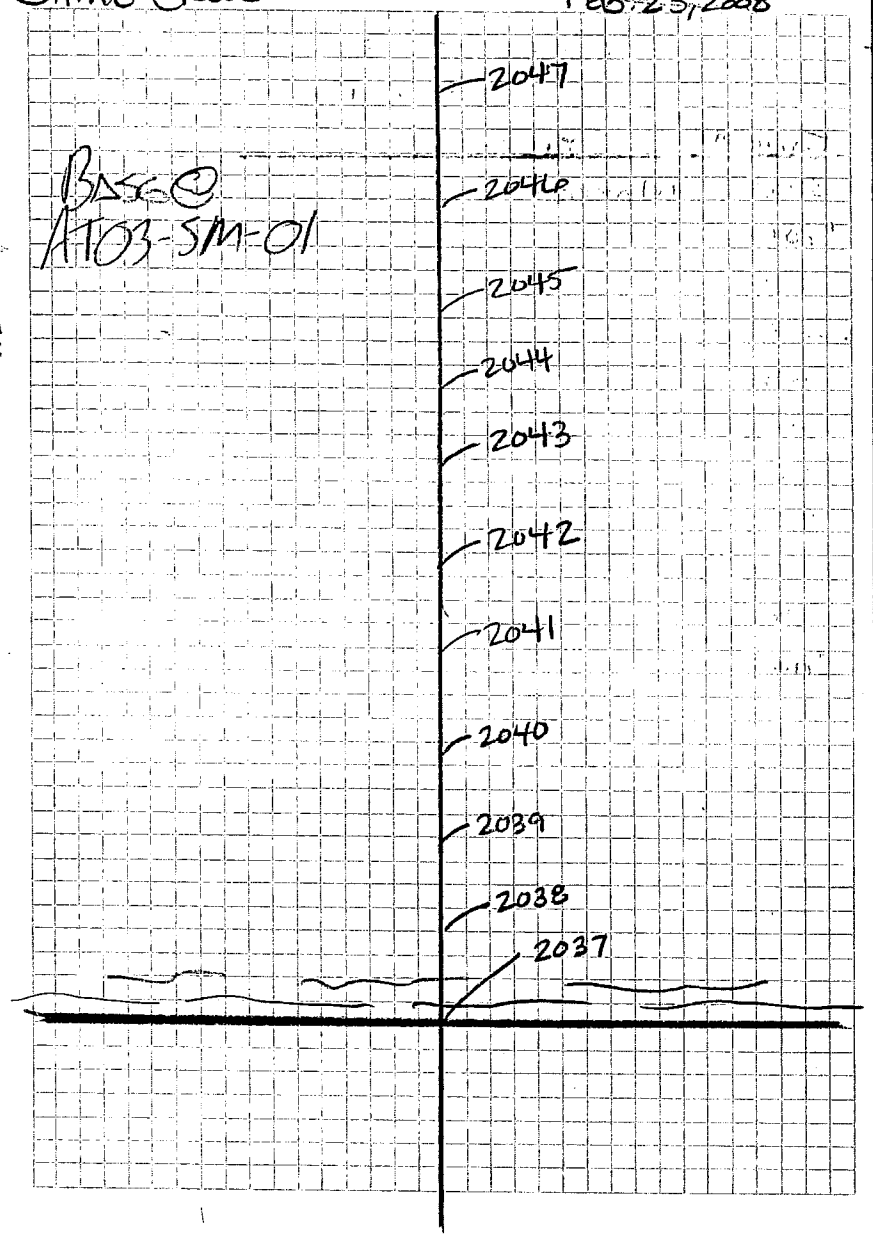
TRANSECT LINES 750 - 745

Point #	Remarks
2037	WATERS EDGE
2038	NATURAL BOTTOM
2039	" "
2040	" "
2041	" "
2042	" "
2043	" "
2044	" "
2045	" "
2046	" "
2047	NATURAL BOTTOM

SAME CREW

1132 Sunny 60 FEB 23, 2008

BASE @ AT03-SM-01



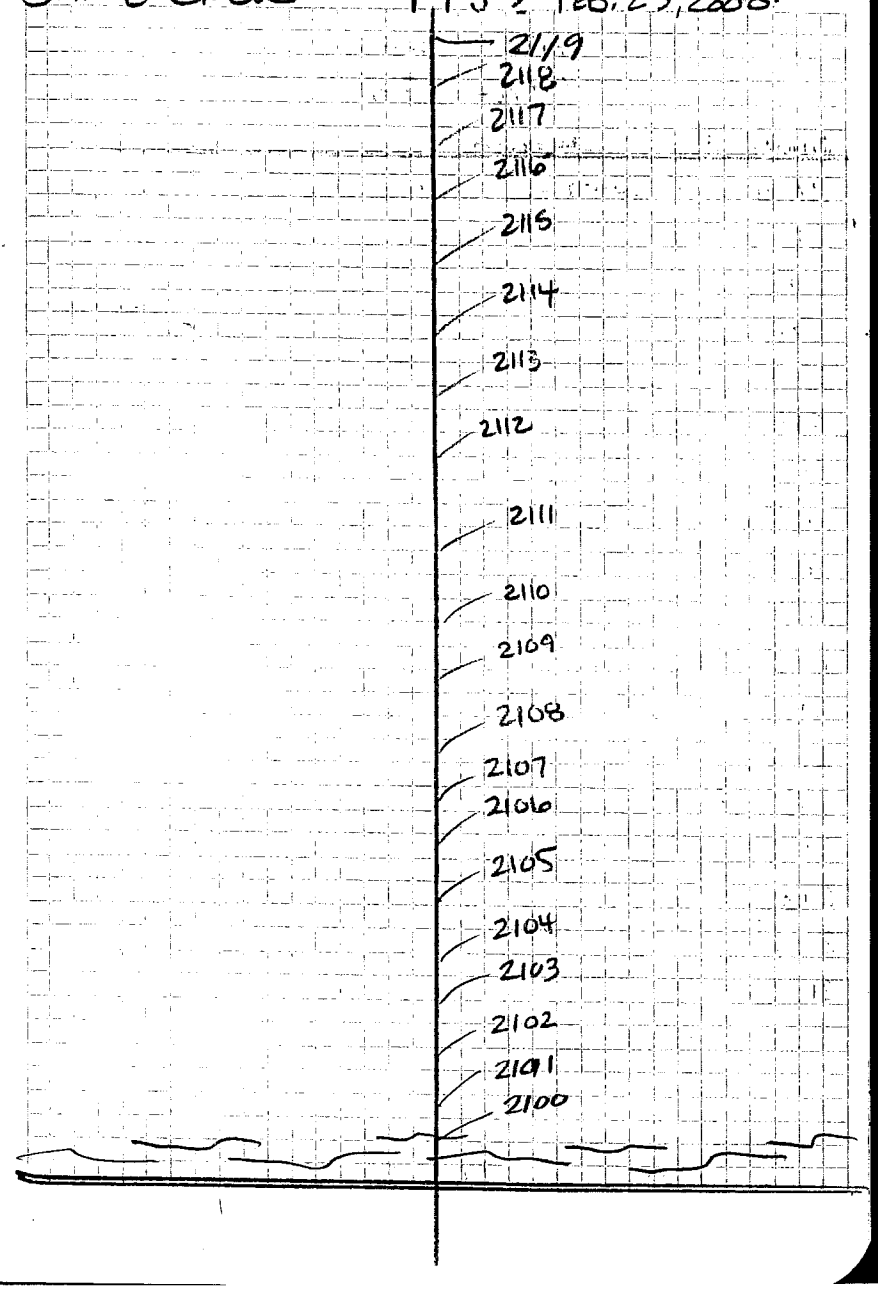
9914 DNR ATCHAFALAYA

TRANSECT LINE
746-741

POINT #	REMARKS
2100	NATURAL BOTTOM
2101	" "
2102	" "
2103	" "
2104	" "
2105	" "
2106	" "
2107	" "
2108	" "
2109	" "
2110	" "
2111	" "
2112	" "
2113	" "
2114	" "
2115	" "
2116	" "
2117	" "
2118	" "
2119	NATURAL BOTTOM

BASE @ AT03-SM01

SAME CREW 1132 FEB. 25, 2008 Sunny/warm



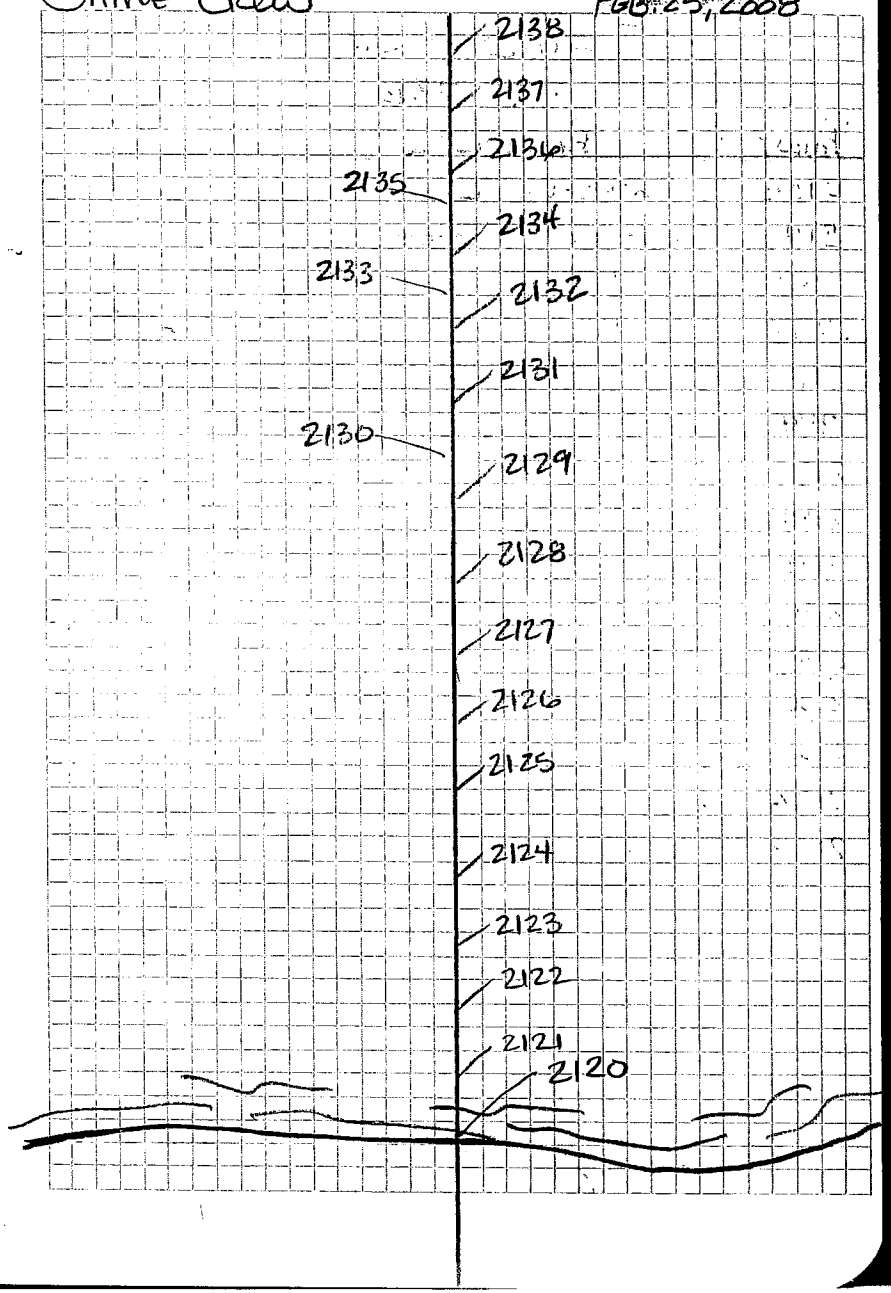
JOB NUMBER
9714 DNR ATCHAFALAYA

TRANSECT LINE
742- 738

POINT #	REMARKS
2120	WATERS EDGE
2121	NATURAL BOTTOM
2122	" "
2123	" "
2124	" "
2125	" "
2126	" "
2127	" "
2128	" "
2129	" "
2130	" "
2131	" "
2132	" "
2133	" "
2134	" "
2135	" "
2136	" "
2137	" "
2138	NATURAL BOTTOM

BASE @ AT03-SM-01

SAME CREW 1132 Sunny/warm 10 FEB 25, 2008



JOB NUMBER
97114 DNR ATCHAFALAYA

TRANSECT LINE
737 - 736

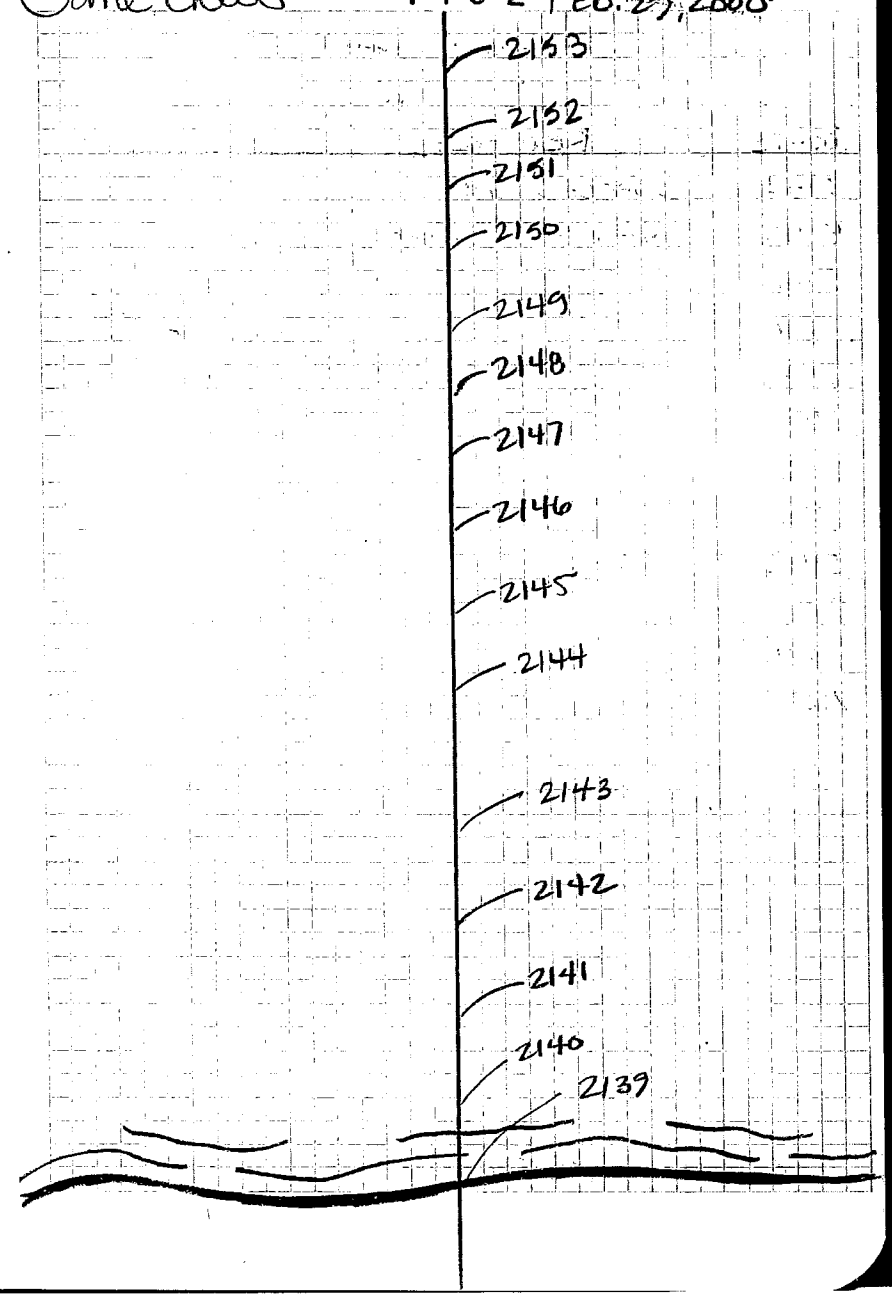
Points	Remarks
2139	WATER EDGE
2140	NATURAL BOTTOM
2141	" "
2142	" "
2143	" "
2144	" "
2145	" "
2146	" "
2147	" "
2148	" "
2149	" "
2150	" "
2151	" "
2152	" "
2153	NATURAL BOTTOM

BASE @ AT03-SM-01

Same Crew

Sunrise/warm

1132 FEB. 25, 2008



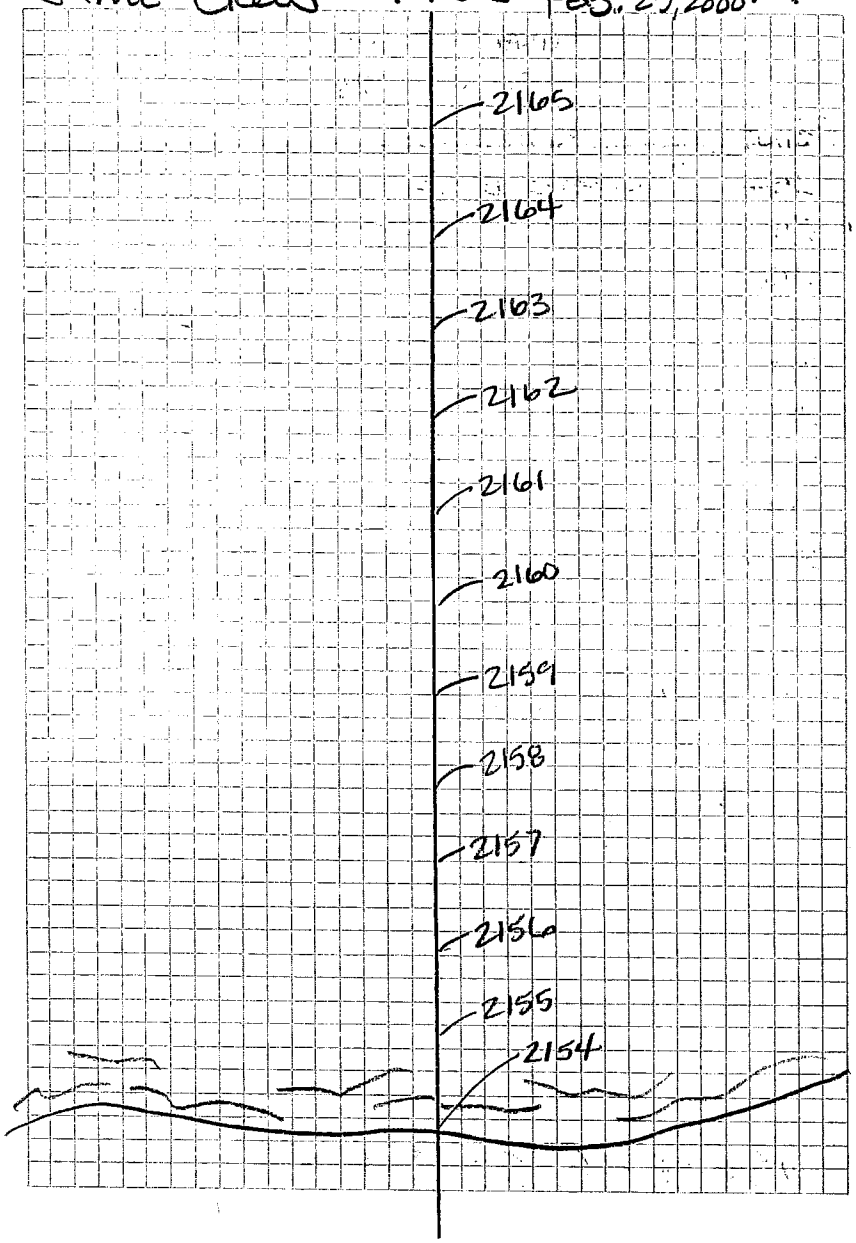
JOB NUMBER
9714 DNR ATCHAFALAYA
TRANSIT LINE
735 - 734

POINTS	REMARKS
2154	WATERS EDGE
2155	NATURAL BOTTOM
2156	" "
2157	" "
2158	" "
2159	" "
2160	" "
2161	" "
2162	" "
2163	" "
2164	" "
2165	NATURAL BOTTOM

BASE @ AT03-SM-01

Sunny/warm

SAME CREW 1132 FEB. 25, 2008 2



JOB NUMBER
9714 DNR ATCHAFALAYA

TRANSECT LINE
733 – 732

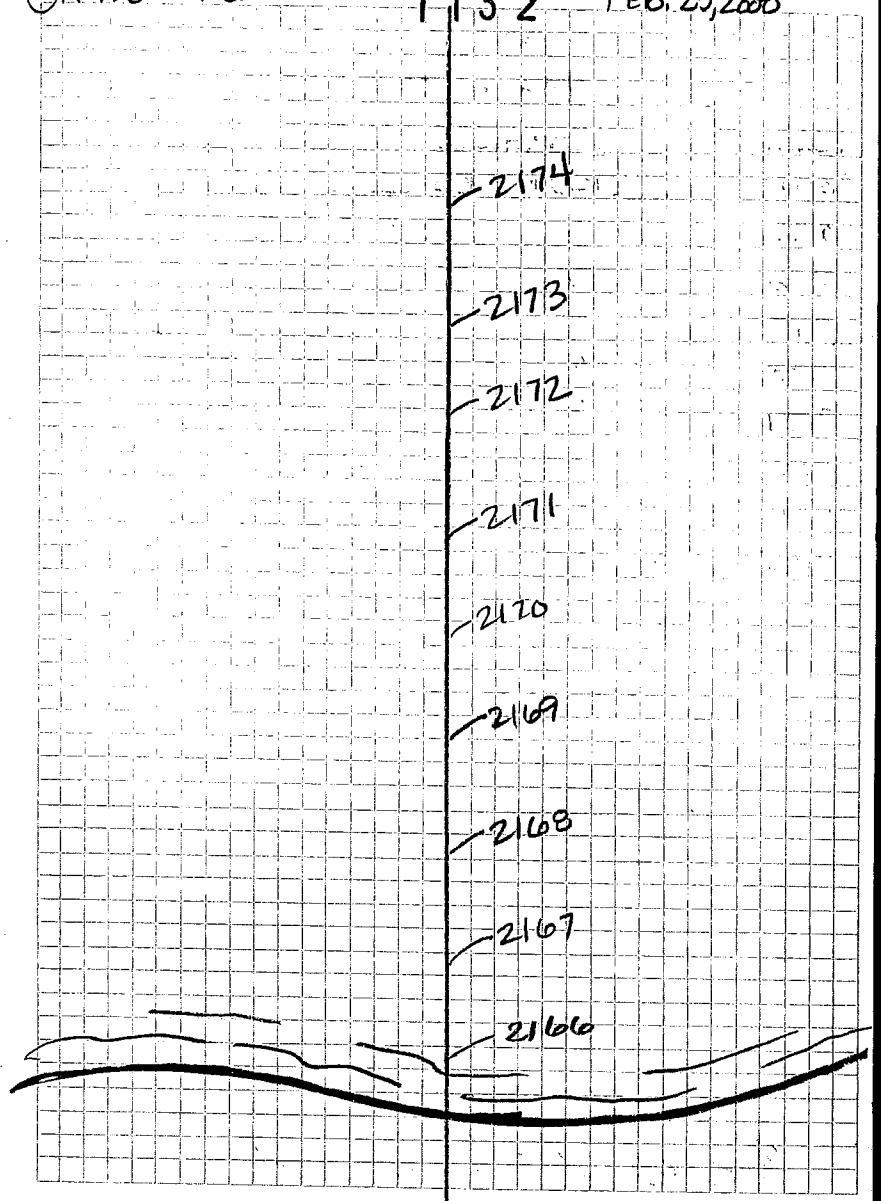
POINT #	REMARKS
2166	NATURAL BOTTOM
2167	" "
2168	" "
2169	" "
2170	" "
2171	" "
2172	" "
2173	" "
2174	NATURAL BOTTOM

BASE @ AT03-SM-01

SAME CREW

Sunny/warm

1132 FEB. 25, 2008 3



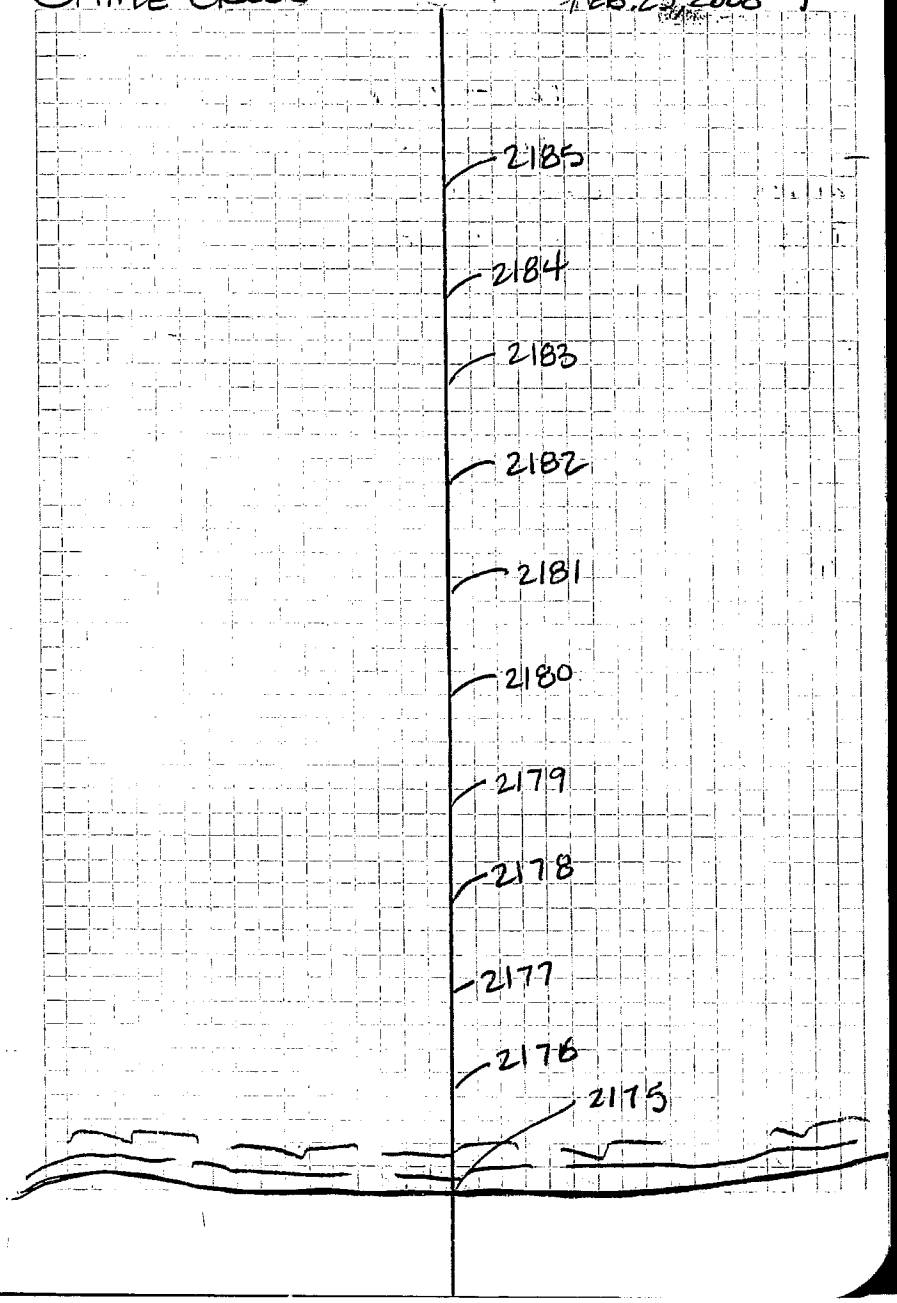
JOB NUMBER 9714 DNR - ATCHAFALAYA

TRANSECT LINE
729 - 728

POINT #	REMARKS
2175	WATERS EDGE
2176	NATURAL BOTTOM
2177	" "
2178	" "
2179	" "
2180	" "
2181	" "
2182	" "
2183	" "
2184	" "
2185	NATURAL BOTTOM

BASCO AT03-SM-01

SAME CREW 1132 SUNNY/WARM FEB. 25, 2008 14



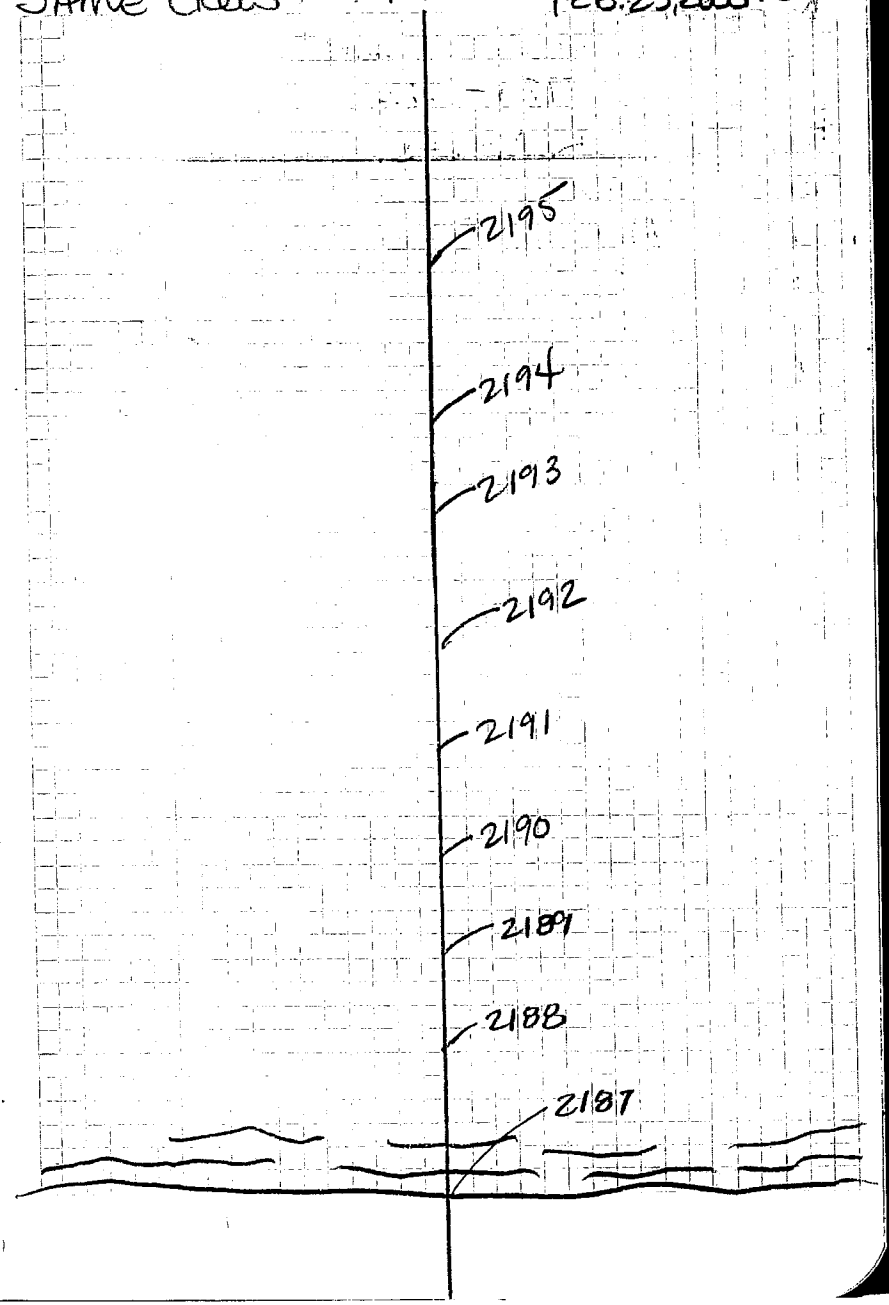
JOB NUMBER 97114 DNR ATCHAFALAYA

TRANSECT LINE 725 - 724

POINT #	REMARKS
2187	WATERS EDGE
2188	NATURAL BOTTOM
2189	" "
2190	" "
2191	" "
2192	" "
2193	" "
2194	" "
2195	NATURAL BOTTOM

KASE @ AT03 - SM-01

SAME CREW 1132 SUNNY/WARM FEB. 23, 2008 15



JOB NUMBER
9714 DNR ATCHAFALAYA

TRANSECT LINE
721 – 720

Point #	Remarks
2196	WATERS EDGE
2197	NATURAL BOTTOM
2198	" "
2199	" "
2200	" "
2201	" "
2202	NATURAL BOTTOM

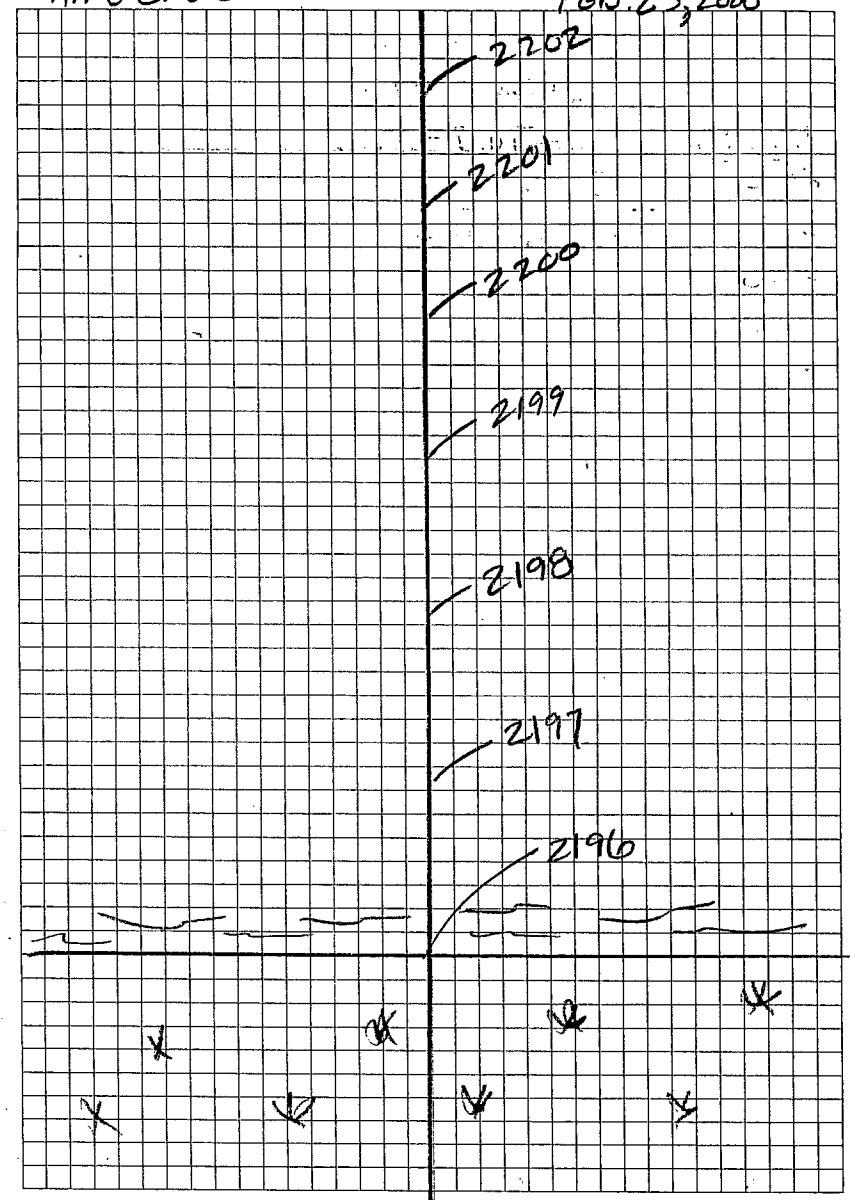
BASE @ AT03-SM-01

SAME CREW

1132

Sunny

FEB 25, 2008



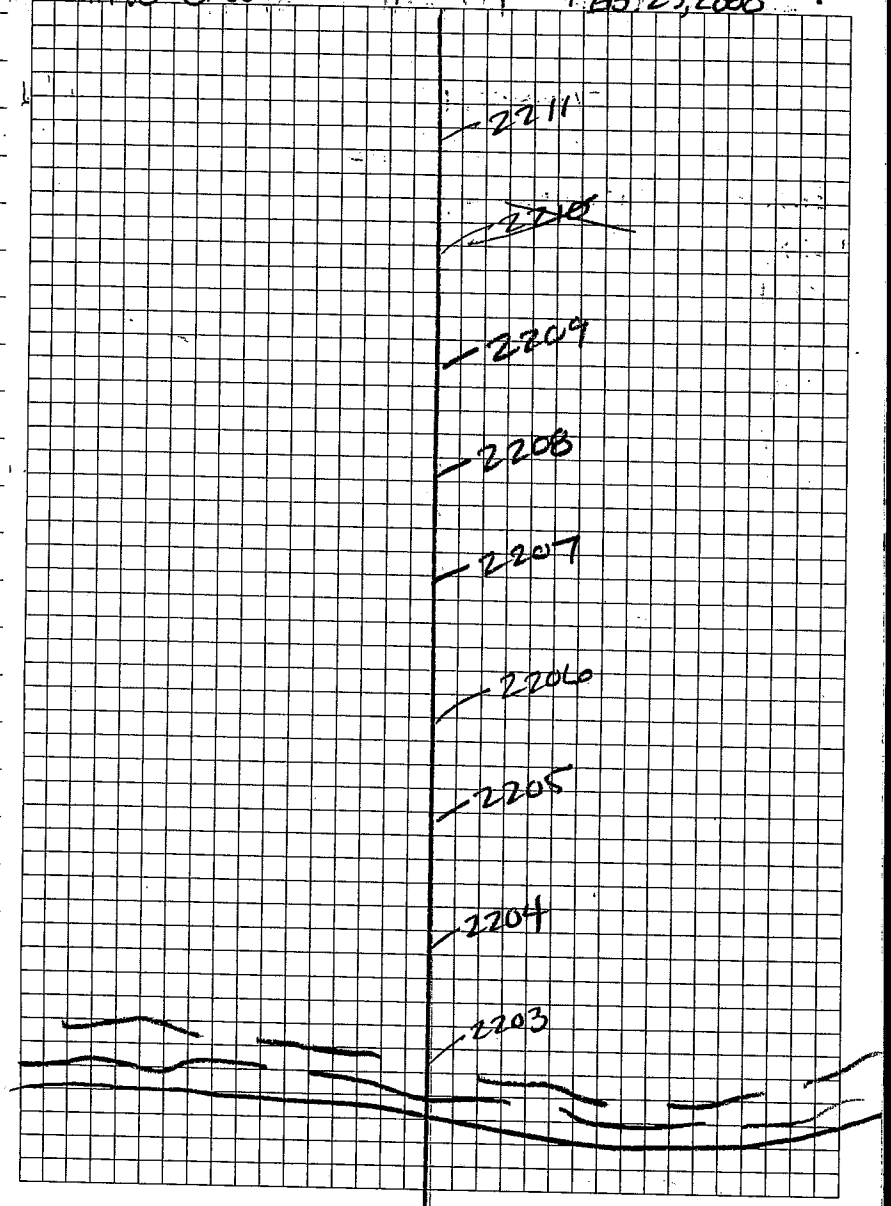
JOB NUMBER
97114 DAIR ATCHAFALAYA

SAME CREW 1132 Sunny/WARM FEB 25, 2008 1

TRANSECT LINE
717-716

POINT #	REMARKS
2203	NATURAL BOTTOM
2204	" "
2205	" "
2206	" "
2207	" "
2208	" "
2209	" "
2210	~~NATURAL BOTTOM~~ OMIT POINT
2211	NATURAL BOTTOM

BASE @ AT03-SM31



JOB NUMBER
9714 DNR ATCHAFALAYA

TRANSECT LINE
713-712

POINT #	REMARKS
2212	NATURAL BOTTOM
2213	" "
2214	" "
2215	" "
2216	" "
2217	" "
2218	" "
2219	" "
2220	" "
2221	" "
2222	" "
2223	NATURAL BOTTOM

BASE @ AT03-SM-01

SAME CREW 1132 Sunny/Warm 18
FEB 25, 2008

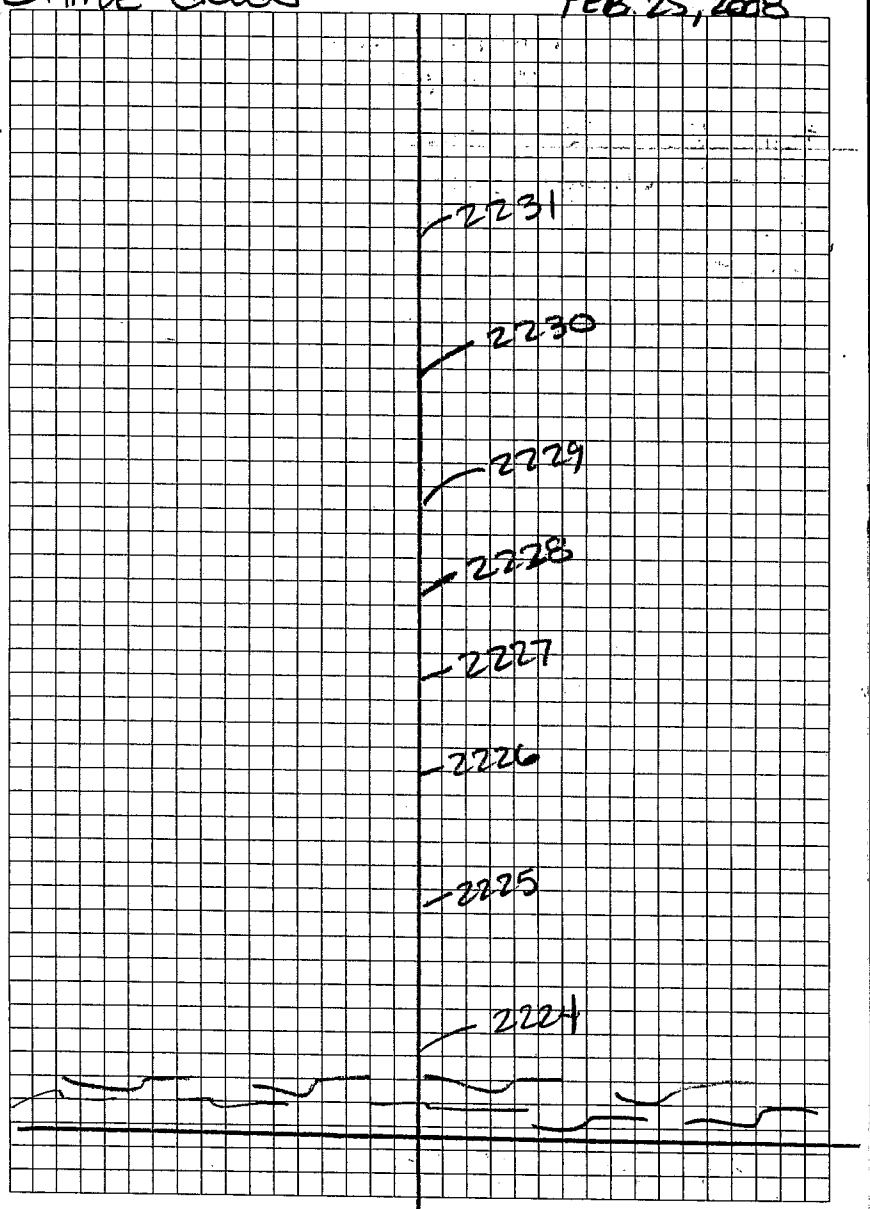
2223
2222
2221
2220
2219
2218
2217
2216
2215
2214
2213
2212

JOB NUMBER 9714 DNR ATCHAFALAYA
TRANSECT LINE
709 – 706

SAME CREW 1132 Sunny/warm 19
FEB. 25, 2008

POINT #	REMARKS
2224	NATURAL BOTTOM
2225	" "
2226	" "
2227	" "
2228	" "
2229	" "
2230	" "
2231	NATURAL BOTTOM

BASE @ AT03-SM-01

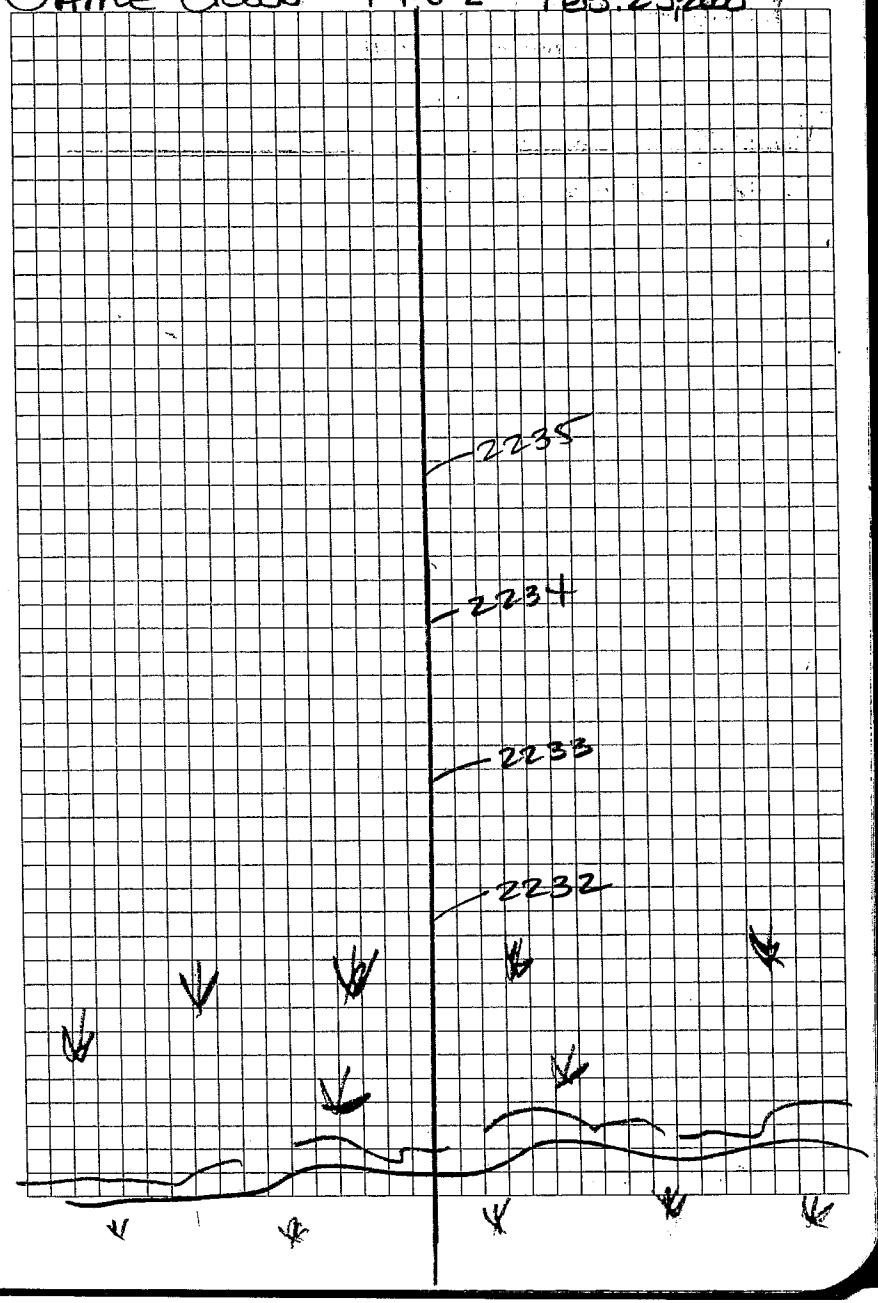


JOB NUMBER
9714 DNR ATCHAFALAYA
TRANSECT LINE
704-700

POINT #	REMARKS
2232	NATURAL BOTTOM
2233	" "
2234	" "
2235	NATURAL BOTTOM

BASE @ AT03-SM01

SAME CREW 1132 Sunny/WARM 90 FEB. 25, 2008

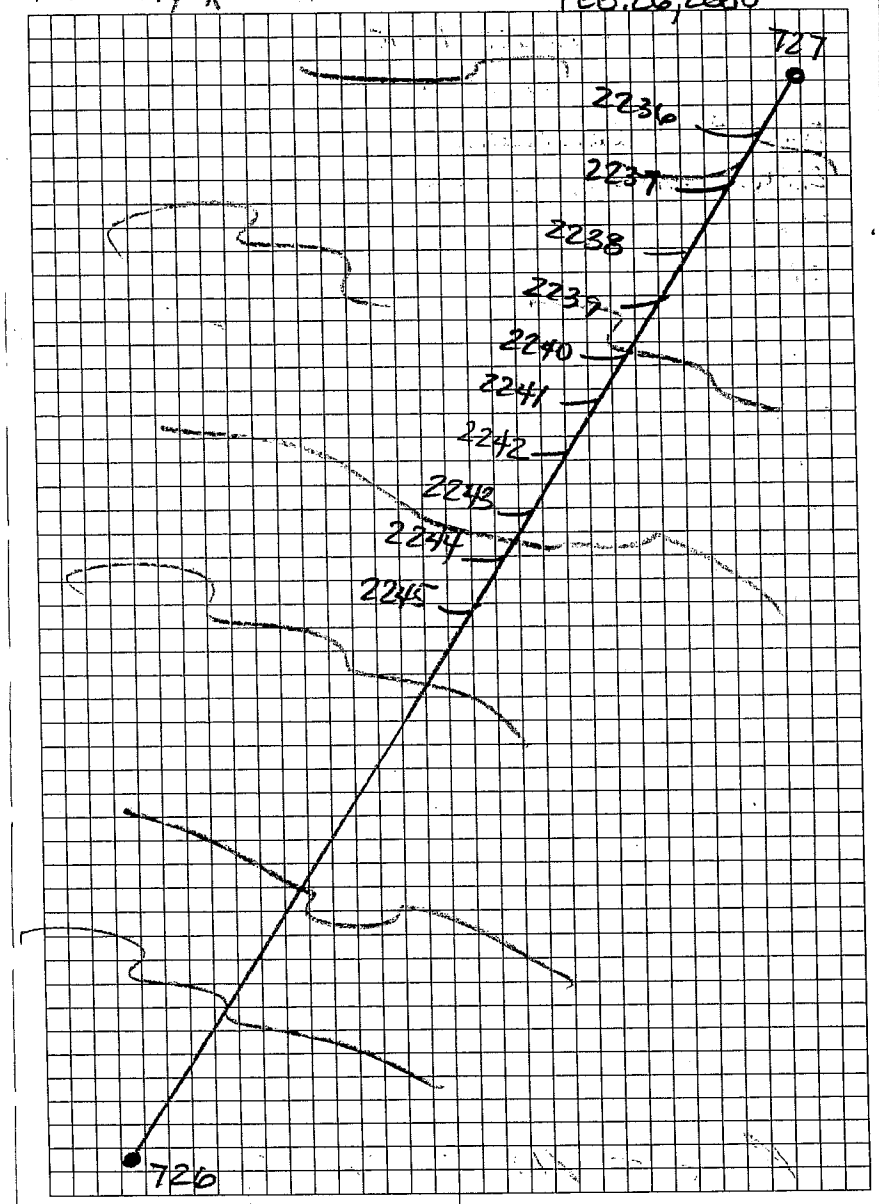


JOB NUMBER
9274 DNR ATCHAFALAYA
TRANSECT LINE
727 - 726

POINT #	REMARKS
2236	NATURAL BOTTOM
2237	" "
2238	" "
2239	" "
2240	" "
2241	" "
2242	" "
2243	" "
2244	" "
2245	NATURAL BOTTOM

BASE @ AT03-SM01

C. MASON TM
R. KROHN & TM
Sunny/warm
1132 FEB. 26, 2008
21



JOB NUMBER
9714 DNR ATCHAFALAYA

TRANSECT LINE
723 - 722

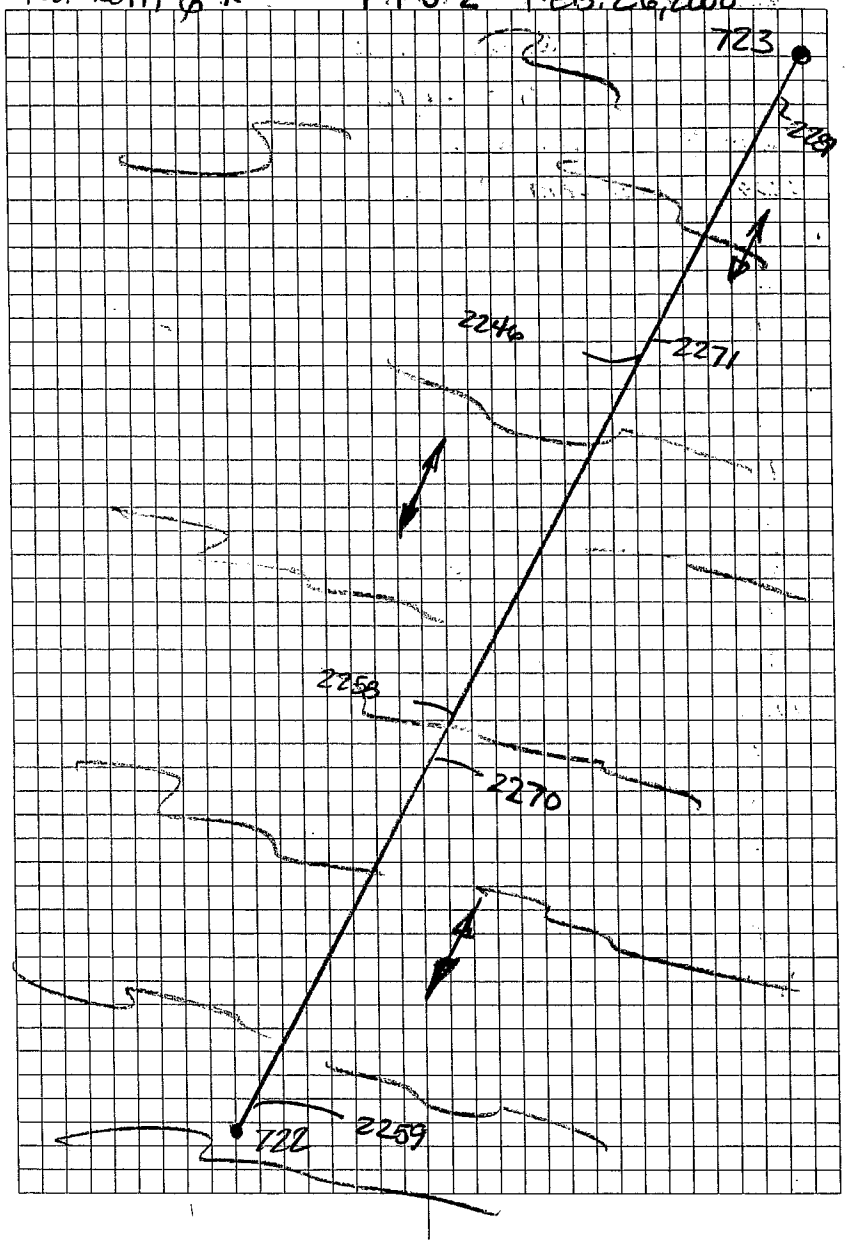
POINT #	REMARKS
2246	NATURAL BOTTOM
2247	" "
2248	" "
2249	" "
2250	" "
2251	" "
2252	" "
2253	" "
2254	" "
2255	" "
2256	" "
2257	" "
2258	NATURAL BOTTOM
↓	
2281	NATURAL BOTTOM

BASE @ AT03-SM1-01

C. MASON T III
R. KROHN & T

1132

Cod/WINAY
FEB. 26, 2008



JOB NUMBER 9714 DNR ATCHAFALAYA

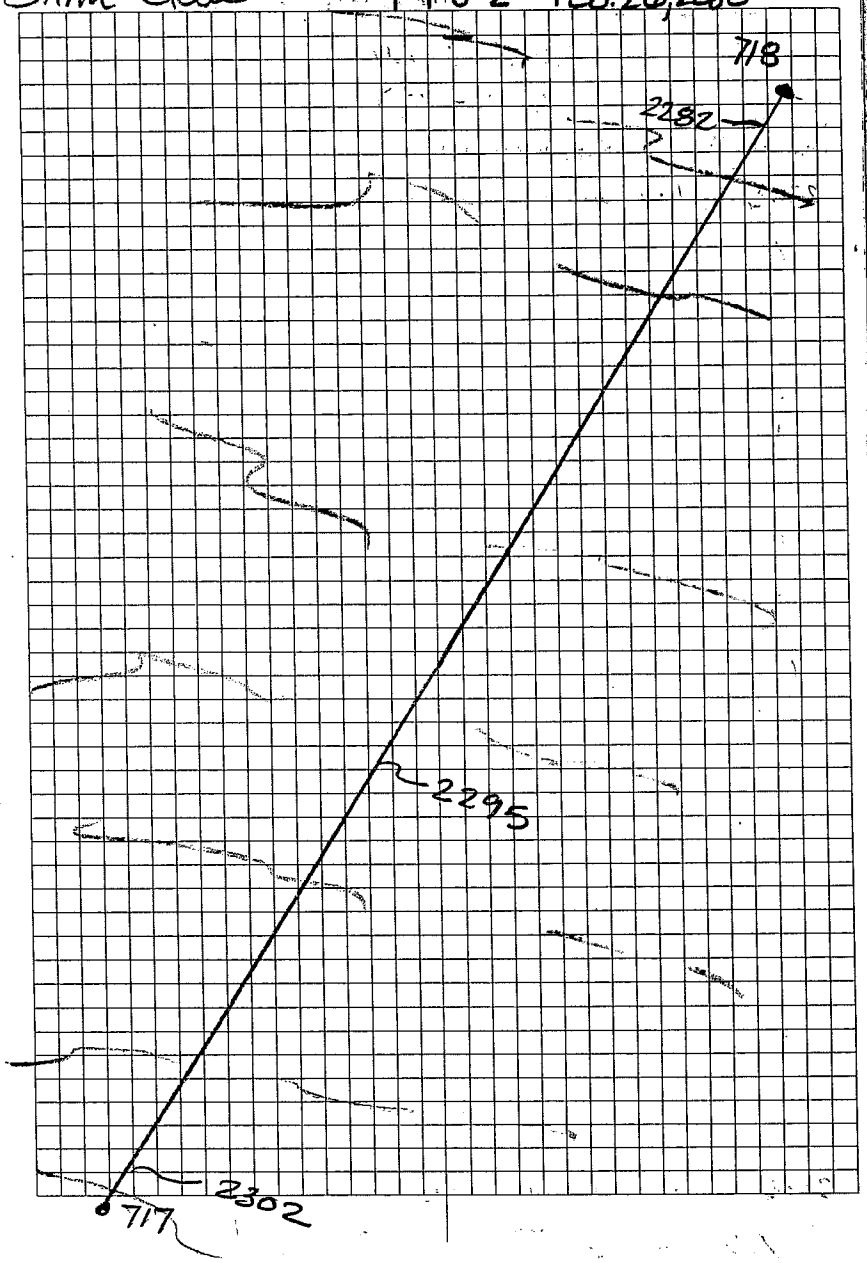
TRANSECT LINE

717 - 718

POINT #	REMARKS
2282	NATURAL BOTTOM
2295	NATURAL BOTTOM
2302	NATURAL BOTTOM

BASE @ ATOB-SM-01

SAME CREW 1132 SUNNY/COOL/WINDY FEB. 26, 2008 23



JOB NUMBER

9714 DNR ATCHAFALAYA

TRASELT LINE

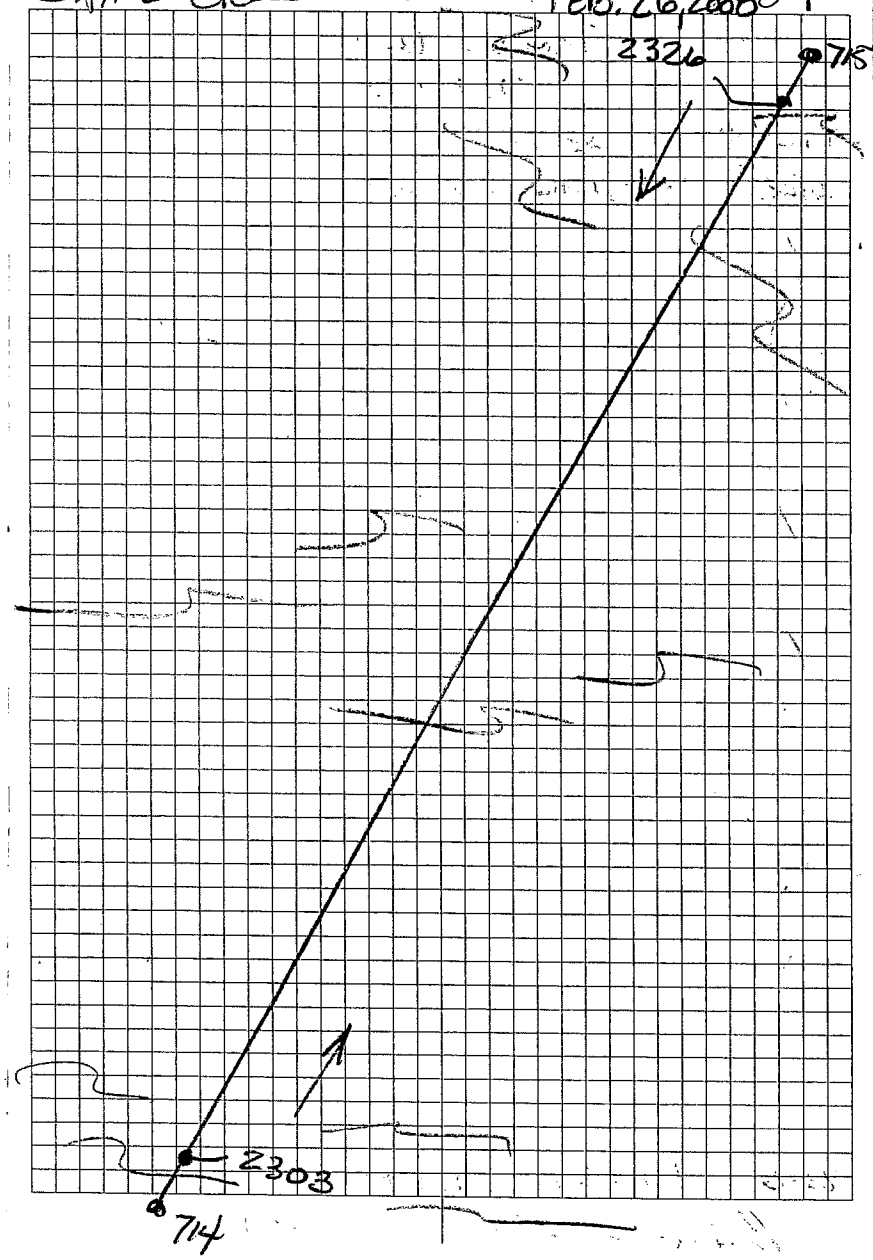
714 – 715

POINT #	REMARKS
2303	NATURAL BOTTOM
2326	NATURAL BOTTOM

BASE @ AT03-SM-01

SAME CREW 1132 FEB. 26, 2008 24

Sunny Windy



JOB NUMBER 9744 DNR ATCHAFALAYA

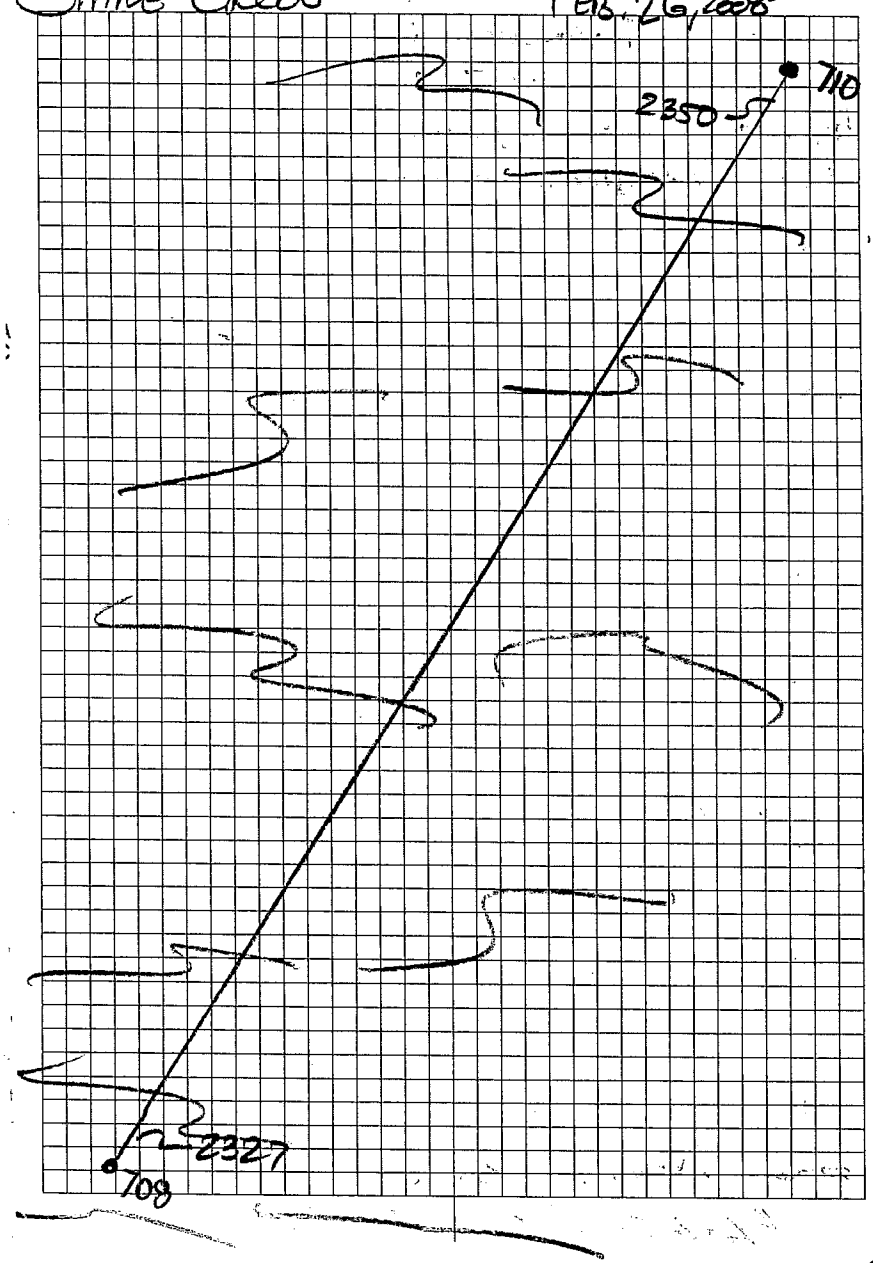
TRANSECT LINE
710 – 708

POINT #	REMARKS
2327	NATURAL BOTTOM
2350	NATURAL BOTTOM

BASE @ AT03-SM01

SAME CREW

1132 SUNNY / WINDY 25
FEB. 26, 2008



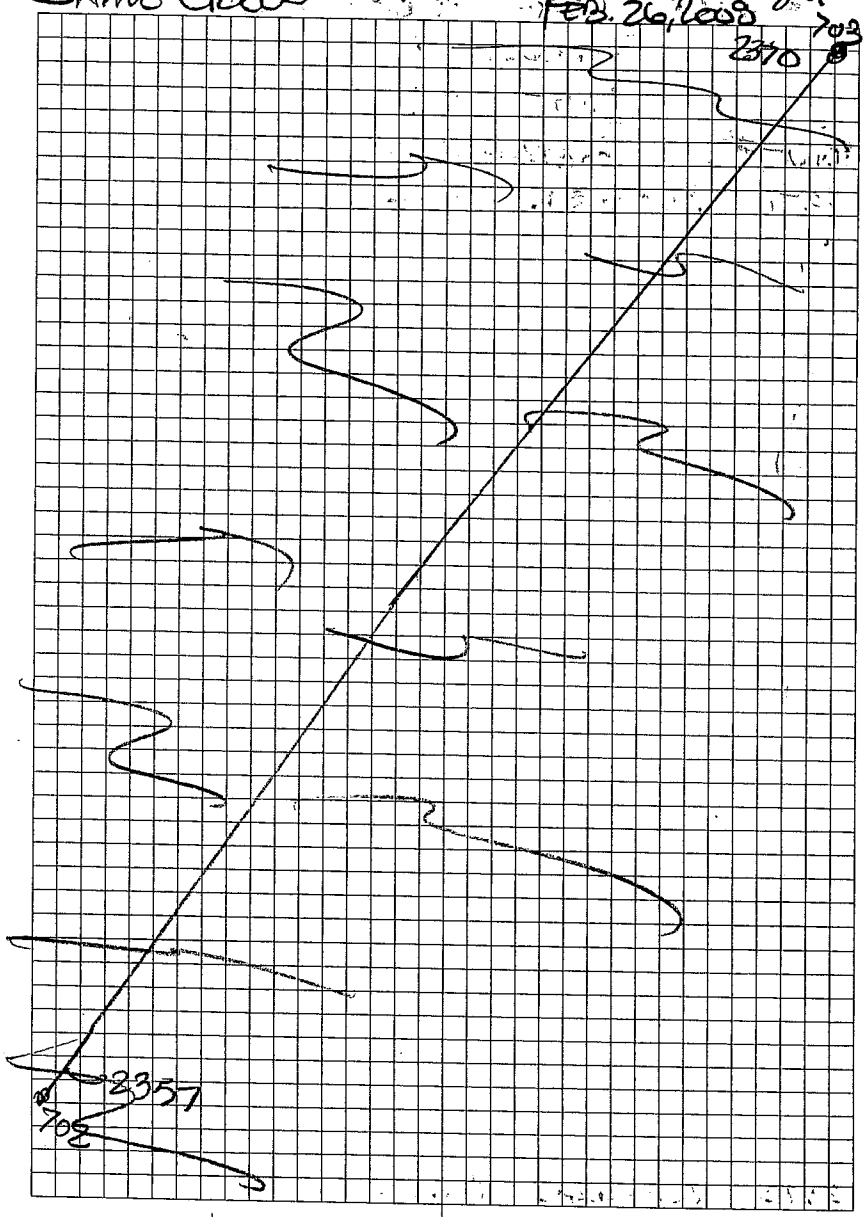
JOB NUMBER 9714 DUR ATCHAFALAYA

TRANSECT # 703 – 702

POINT #	REMARKS
2351	NATURAL BOTTOM
2370	NATURAL BOTTOM

MASE @ AT03-SM-01

SAME CREW 1132 Sunny/Windy 2ll FEB. 26, 2008

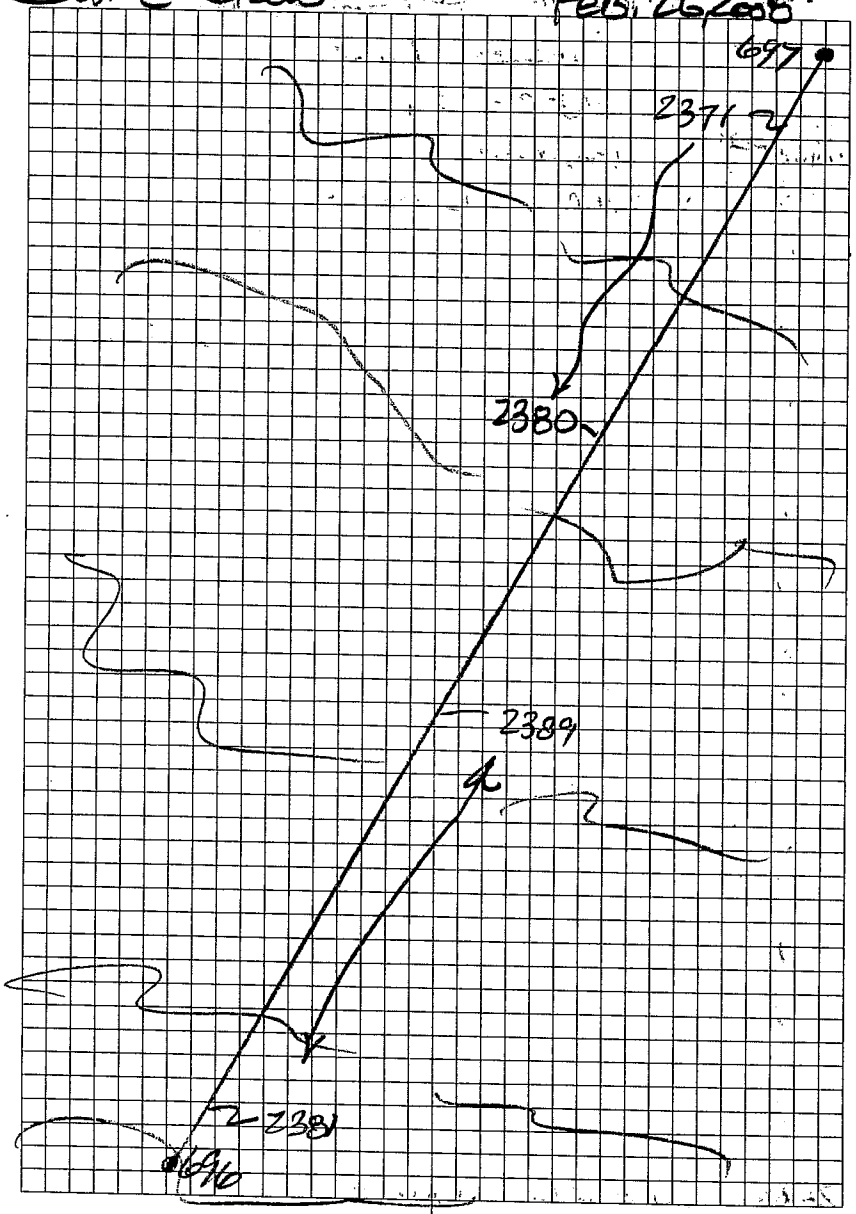


JOB NUMBER
9714 DNR ATCHAFALAYA
TRASECT LINE
697-696

POINT #	REMARKS
2371	NATURAL BOTTOM
2389	NATURAL BOTTOM

BASE @ AT03-SM-01

Same Crew 1132 Sunny/Windy 31
FEB. 26, 2008



JOB NUMBER 9714 DNR ATCHAFALAYA

TRANSECT LINE

690 - 691

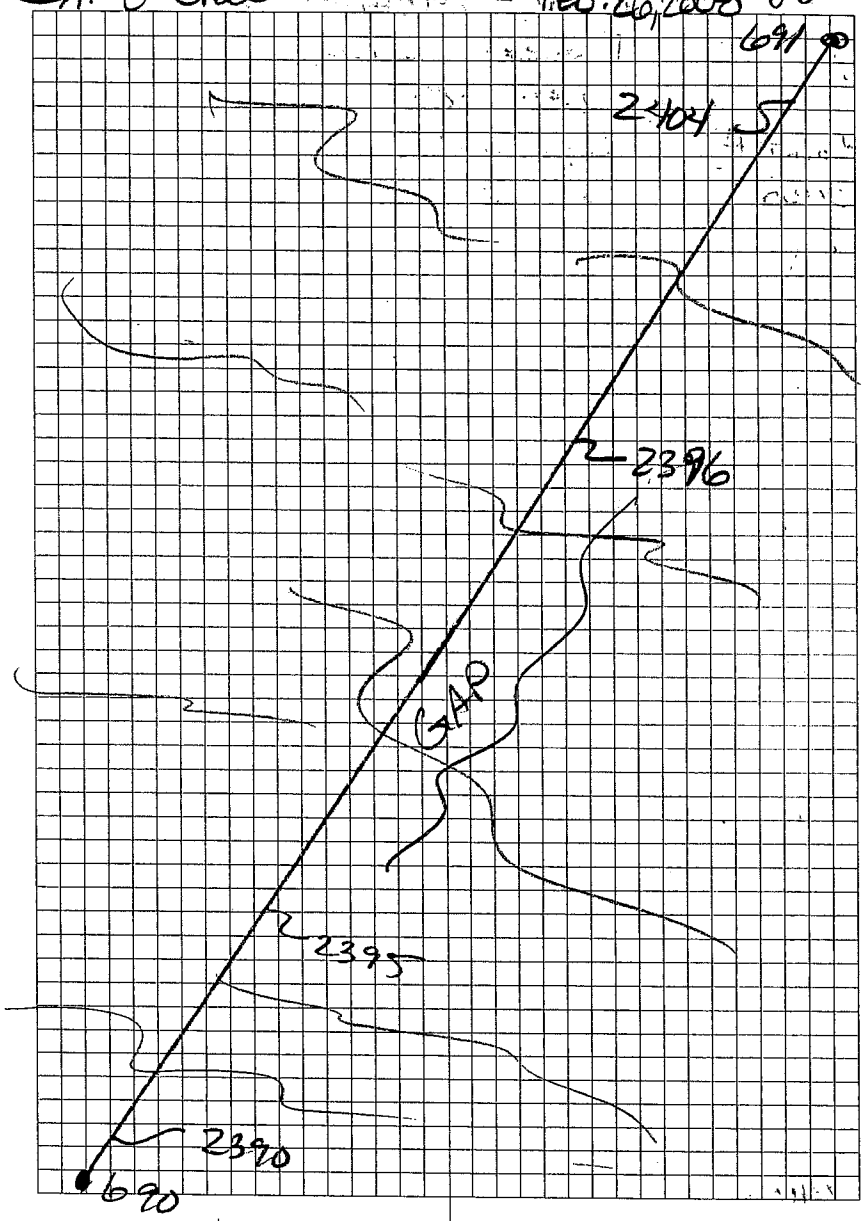
POINT # REMARKS

2390 NATURAL BOTTOM

2404 NATURAL BOTTOM

BASE @ AT03-SM01

SAME CREW 1132 SUNNY/WINDY FEB. 26, 2008 28



JOB NUMBER
9724 DPR ATCHAFALAYA
TRANSECT LINE
684 – 685

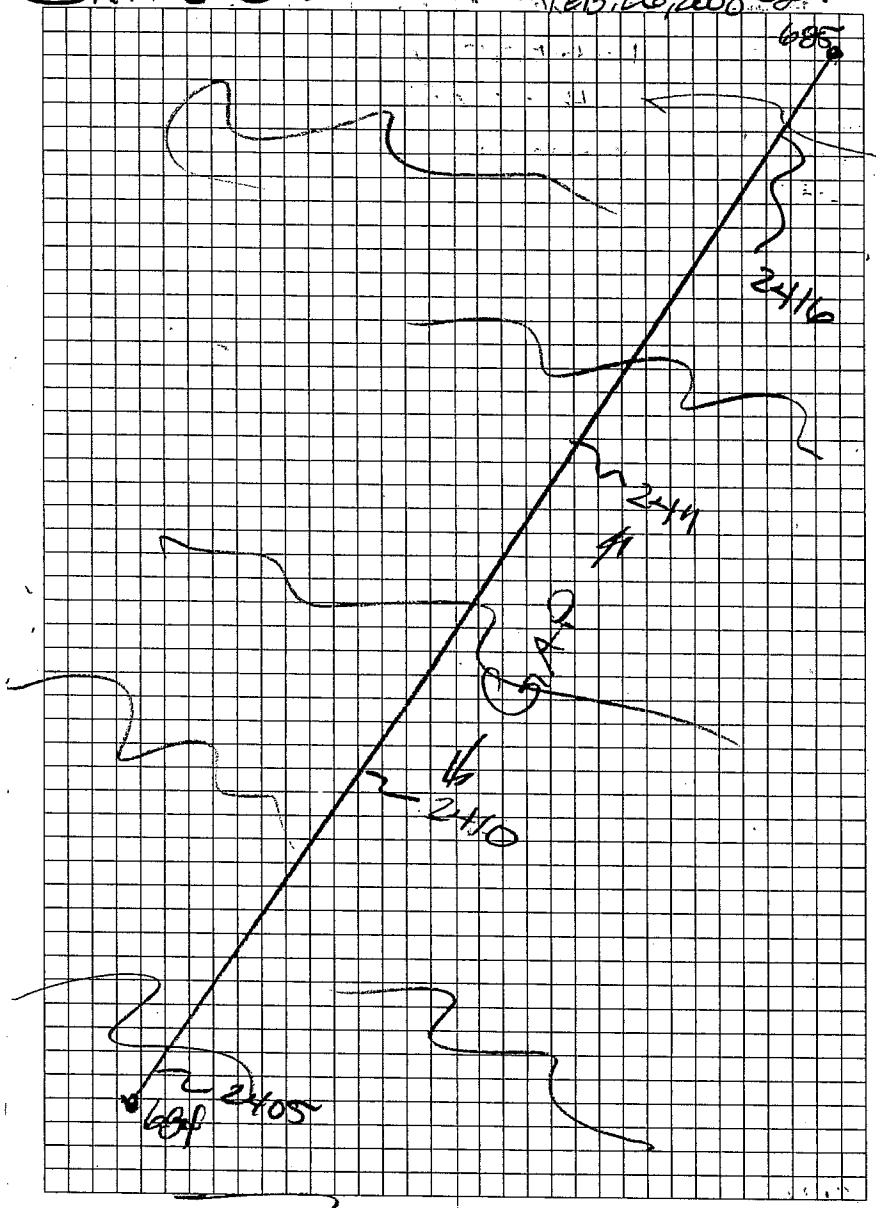
Point #
Remarks

2405

2416

BASE @ AT03-SM-01

SAME CREW 1132 Sunny/Windy 29
FEB. 26, 2008



JOB NUMBER 9714 NOAA ATCHAFALAYA

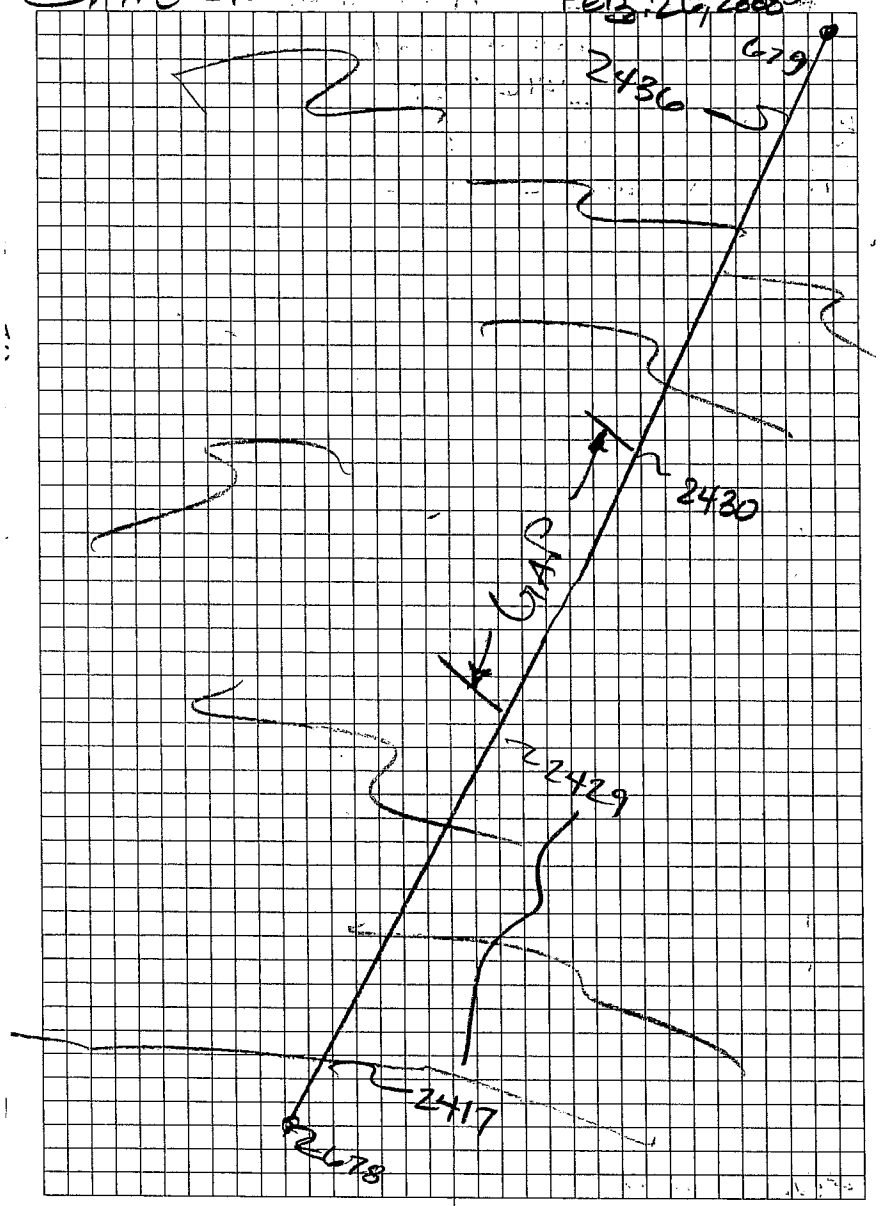
TRANSECT LINE
679–678

Point #	Remarks
2417	Natural Bottom

2430 Natural Bottom

MASE @ AT03-SM01

SAME CREW 1132 Sunny/WINDY 1130 FEB. 26, 2008



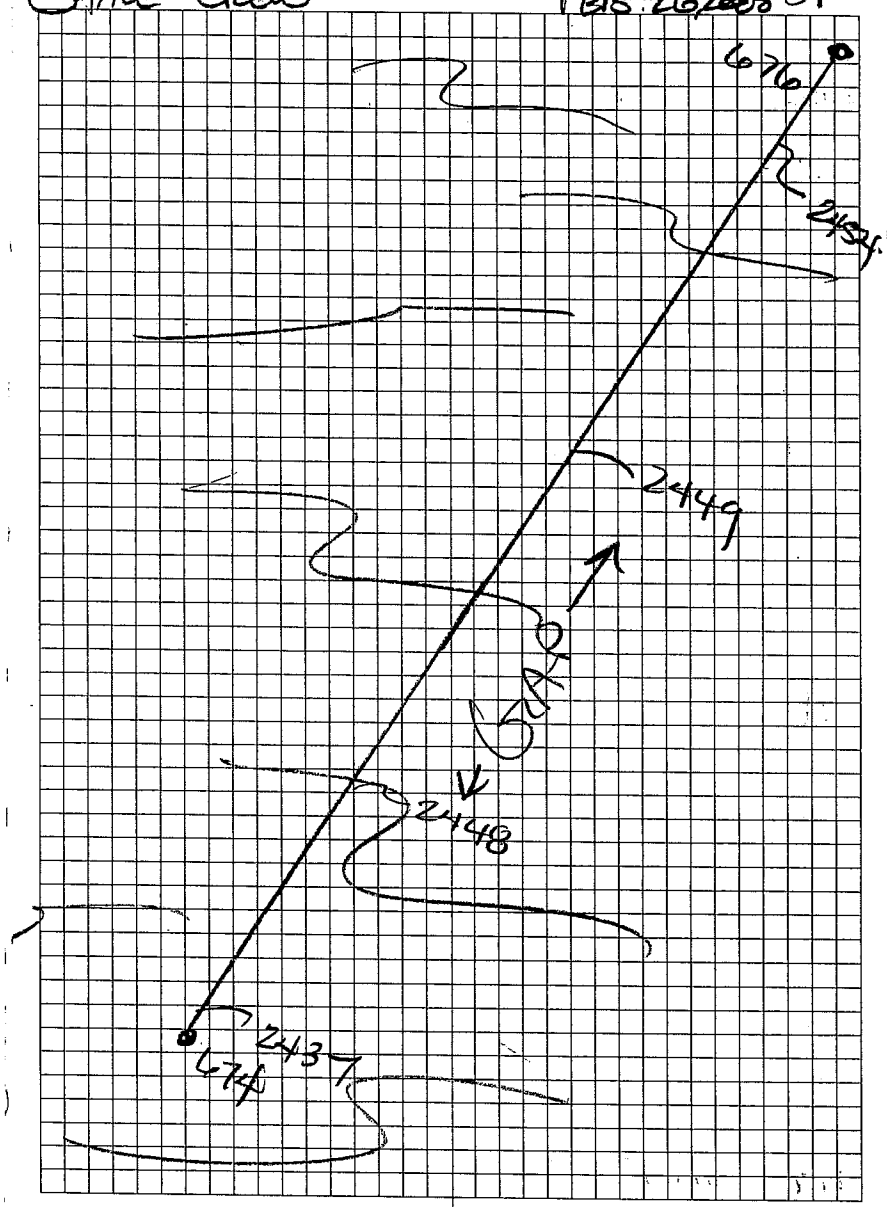
JOB NUMBER
97[illegible]

DNR ATCHAFALAYA
TRANSECT LINE
676-674

POINT #	REMARKS
2437	NATURAL BOTTOM
2454	NATURAL BOTTOM

BASE @ AT03-SM01

SAME CREW 1132 Sunny/W/NW 331 FEB 26 2008



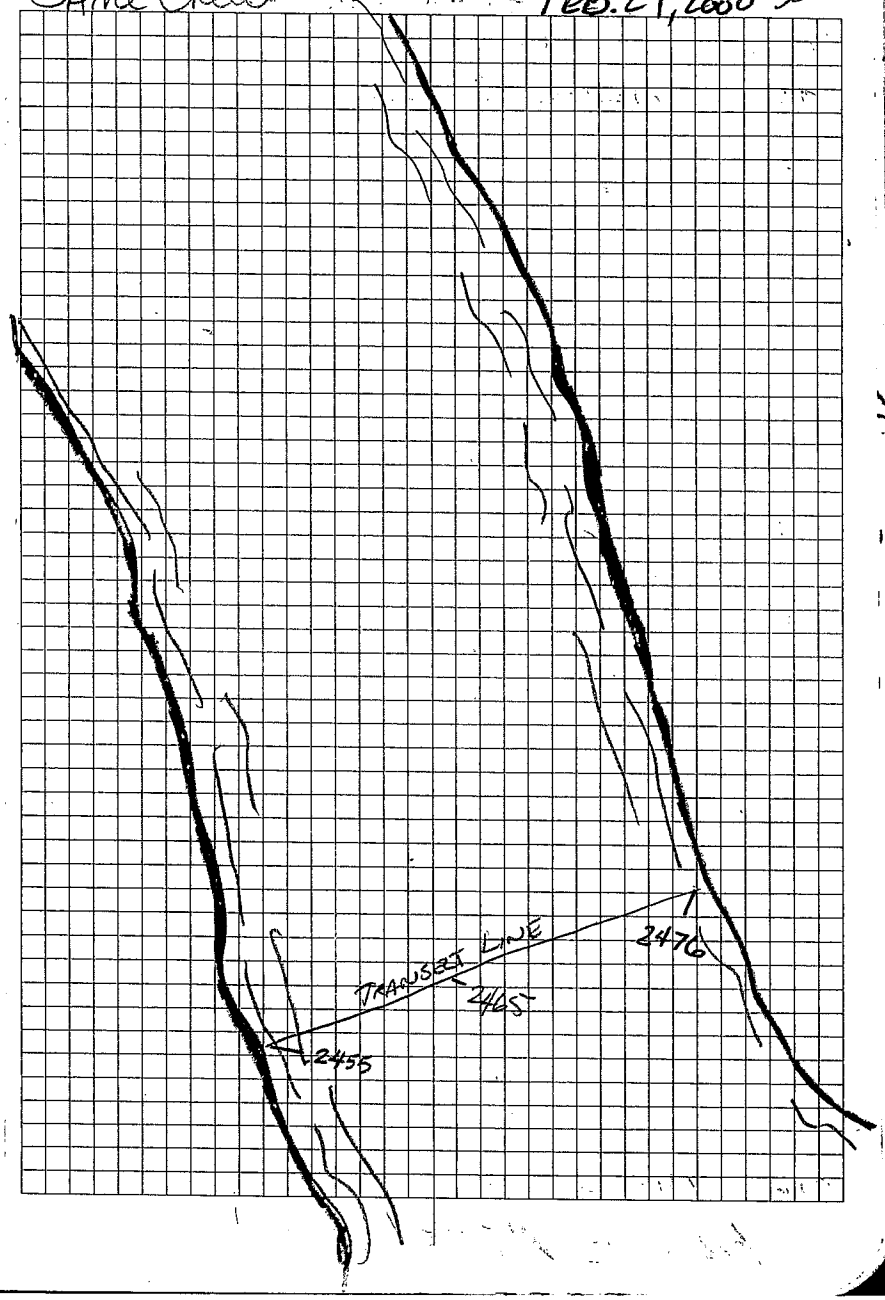
JOB NUMBER

CR 9714 DNR ATCHAFALAYA EAST PASS

Same Crew 1.1.3.2 FEB. 27, 2008 32

Point #	Remarks
2455	Natural Bottom
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2476	Natural Bottom

BASE @ ATOB-SM01

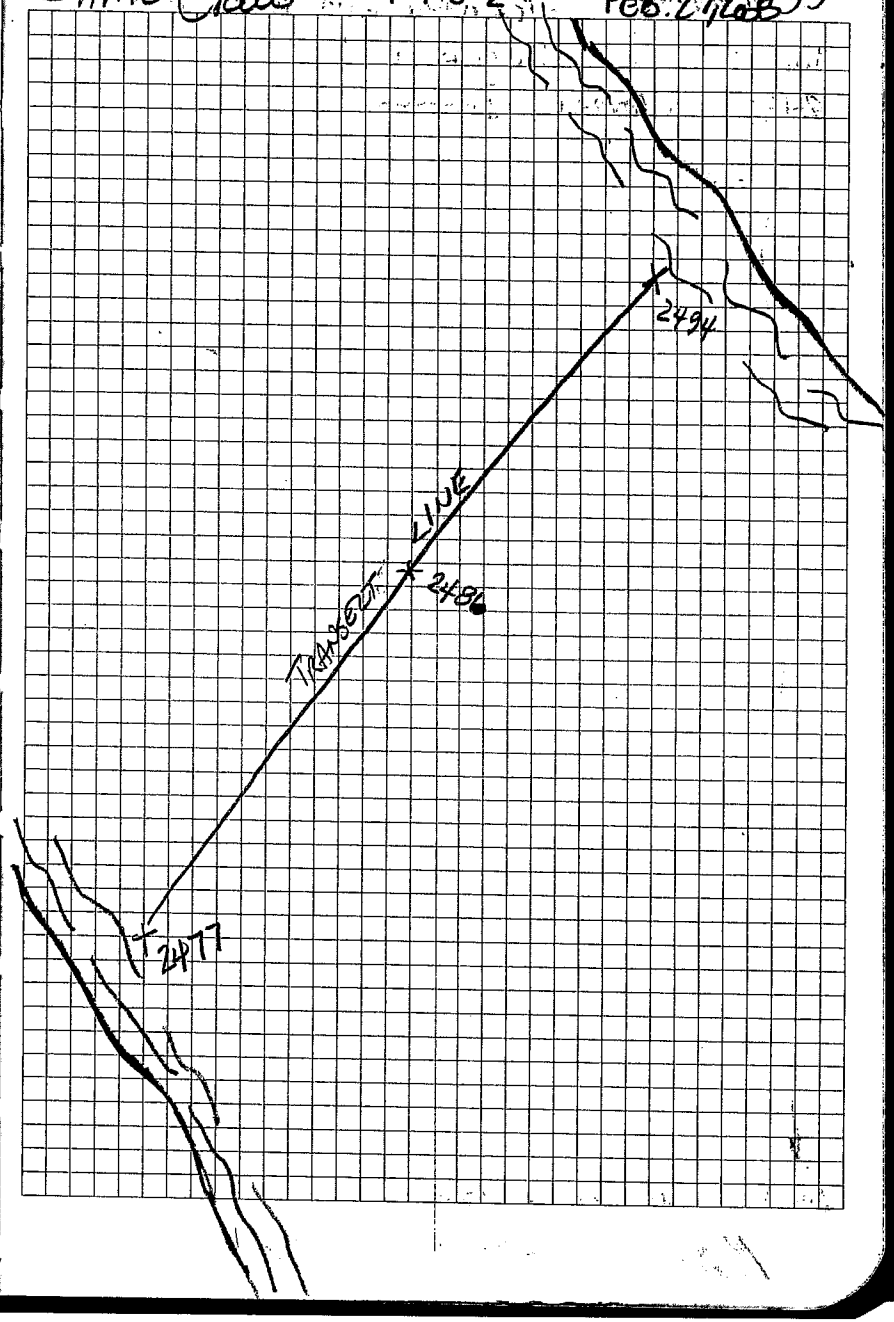


JOB NUMBER
9714 DNR ATCHAFALAYA EAST PASS

Point #	Remarks
2477	Natural Bottom
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2494	Natural Bottom

BASE @ ATOS-SM01

SAME CREW 1132 FEB. 27, 2003

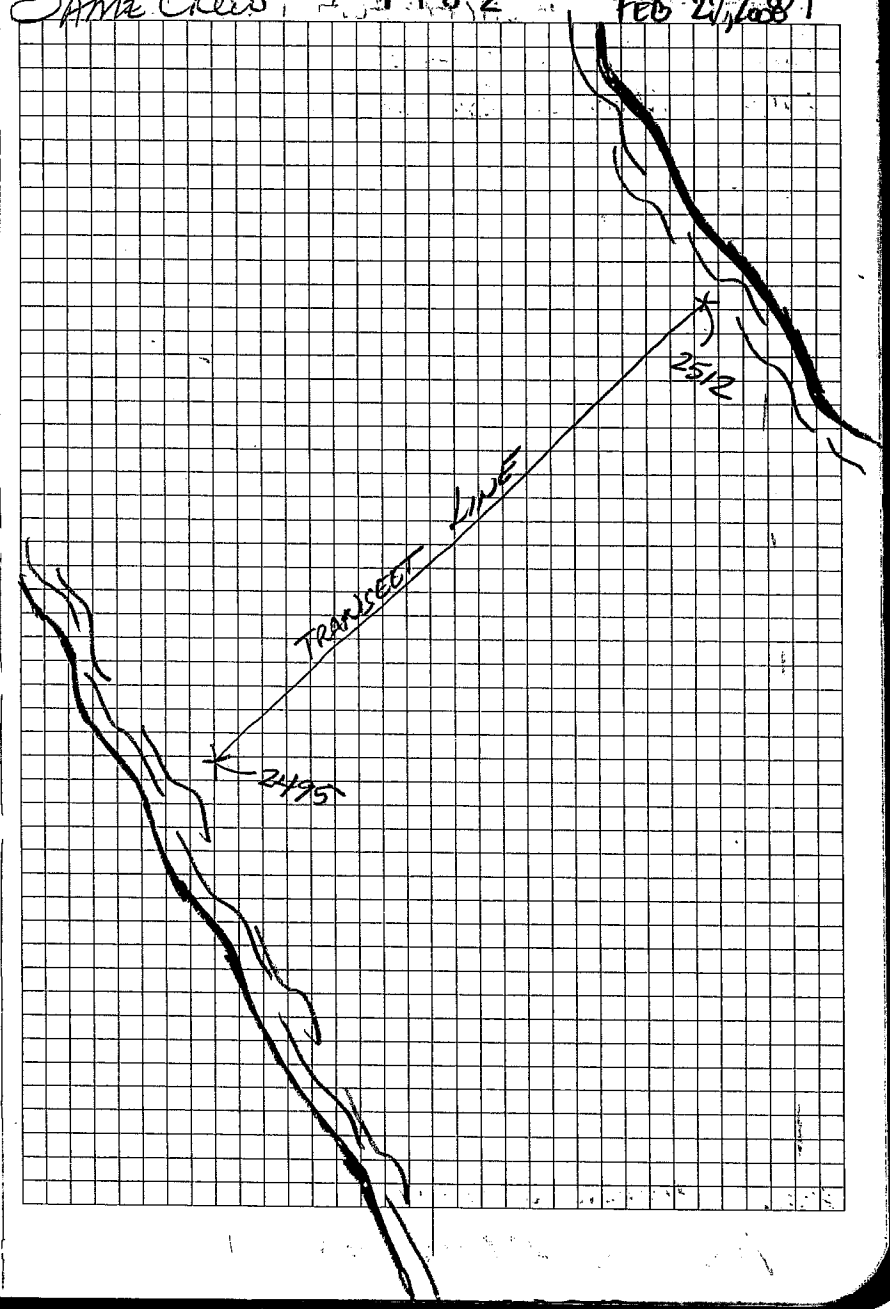


JOB NUMBER
K 994 DNR ATCHAFALAYA EAST PASS

POINT #	REMARKS
2495	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2512	NATURAL BOTTOM

BASE @ AT03-SM01

SAME CREW 1132 FEB 27, 2008 34



JOB NUMBER
9714 DNR ATLHAPALAYA EAST PASS

Point #	Remarks. LINE 75-76
2513	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
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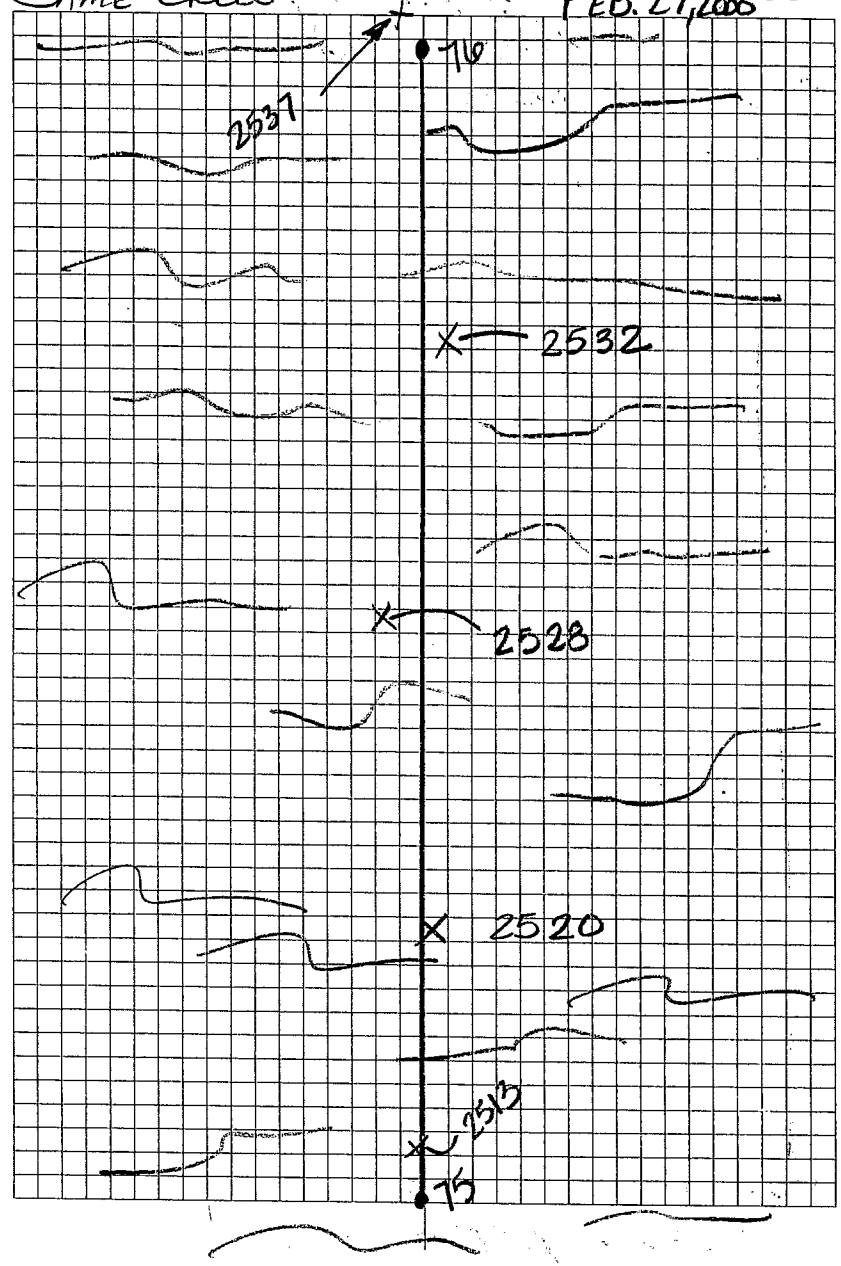
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2537	NATURAL BOTTOM

BASG @ AT03-SM01

SAME CREW 1132 FEB. 27, 2008 35



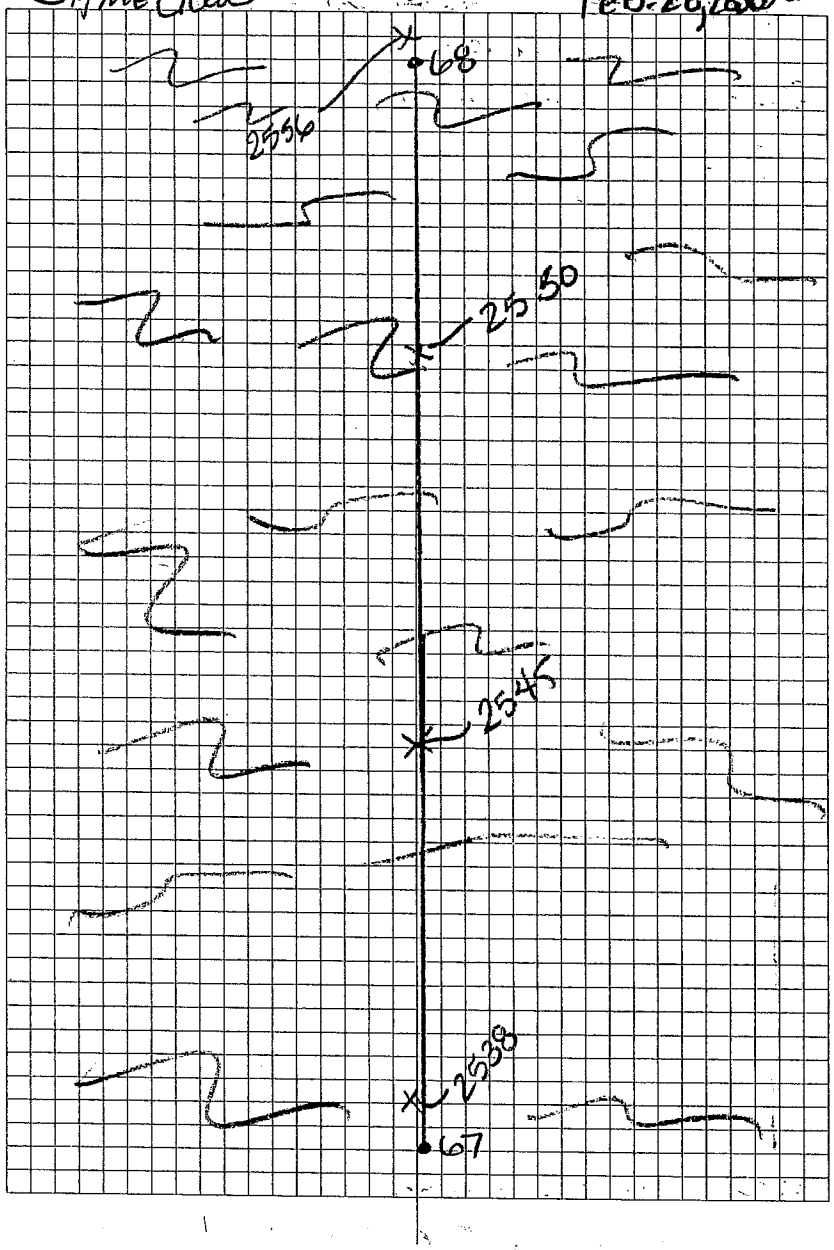
JOB NUMBER 97KYONR ATCHAFALAYA EAST PASS

LINE 68 - 68

POINT #	REMARKS
2538	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2556	NATURAL BOTTOM

BASE @ AT07-SM01

SAME CREW 1132 FEB 28, 2006



JOB NUMBER 9714 DNR

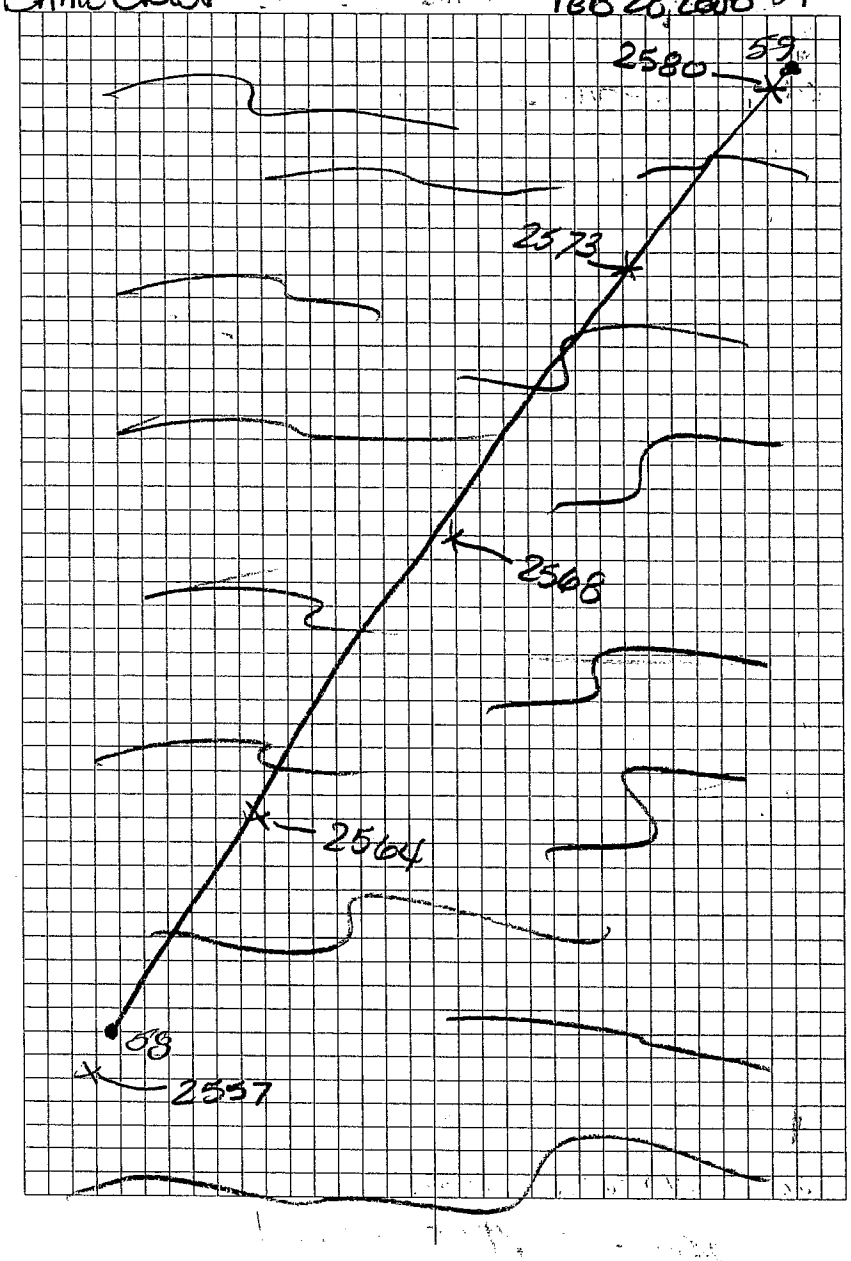
ATCHAFALAYA EAST PASS

LINE 58-59

SAME CREW 1132 FEB 28, 2008 31

POINT #	REMARKS
2557	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2580	NATURAL BOTTOM

BASE @ ATON-SM01

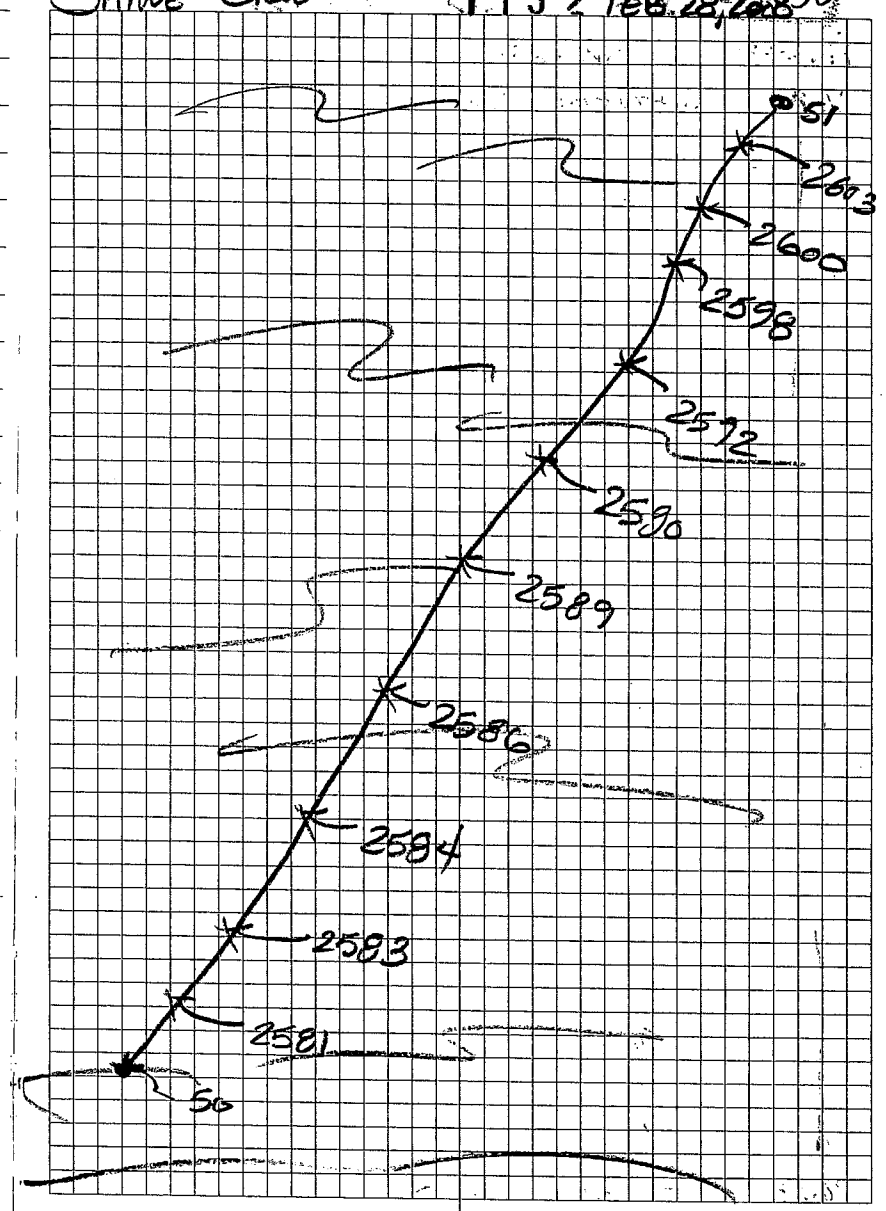


JOB NUMBER 9THDWR ATCHAFALAYA EAST PASS LINE 50-51

SAME CREW 1132 FEB 28, 2008 38

POINT #	Remarks
2581	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2603	NATURAL BOTTOM

BASED AT03-SM01



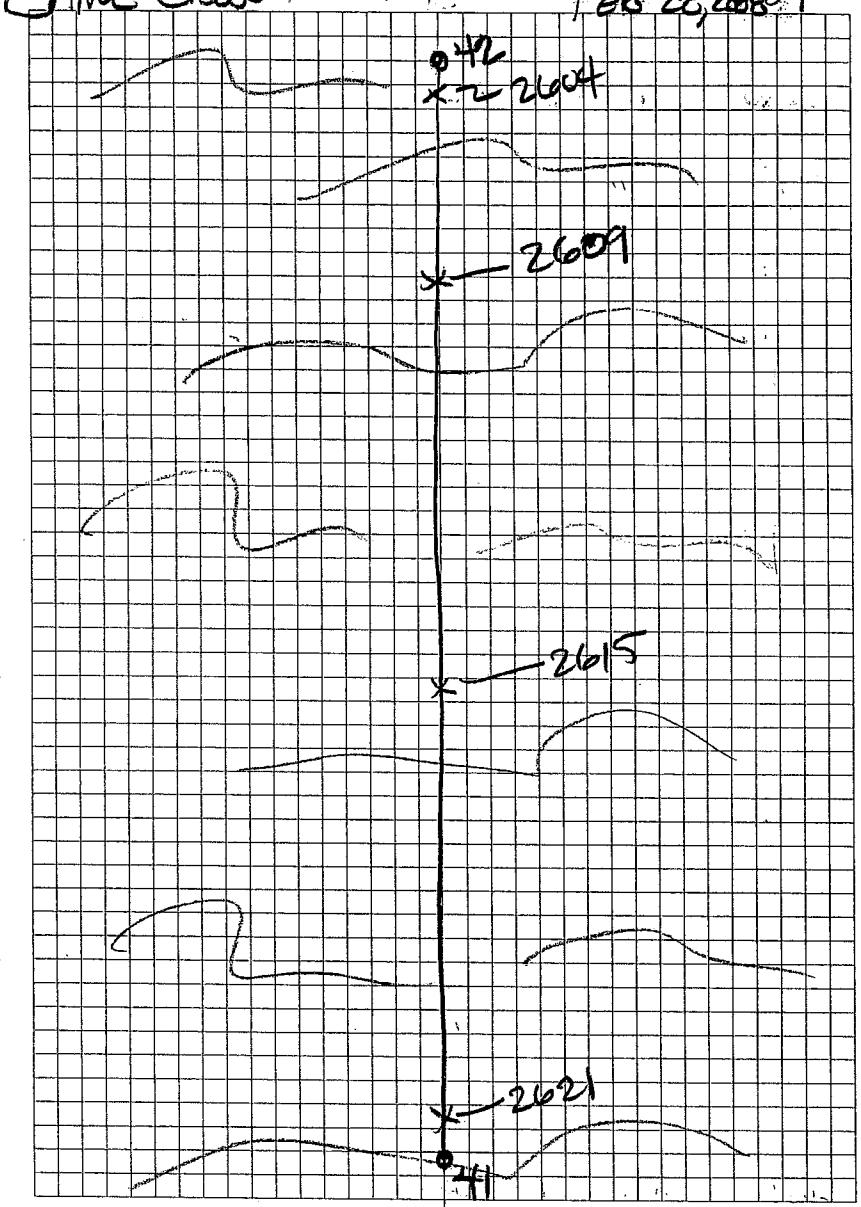
JOB NUMBER 9714 DNR

ATCHAFALAYA EAST PASS LINE 41-42

SAME CREW 1132 FEB 28, 2008

POINT #	REMARKS
2604	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2621	NATURAL BOTTOM

MAGEATOR - SM01



JOB NUMBER 9714 ATCHAFALAYA EAST PASS DNR LINE 35-37

POINT #	REMARKS
2622	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
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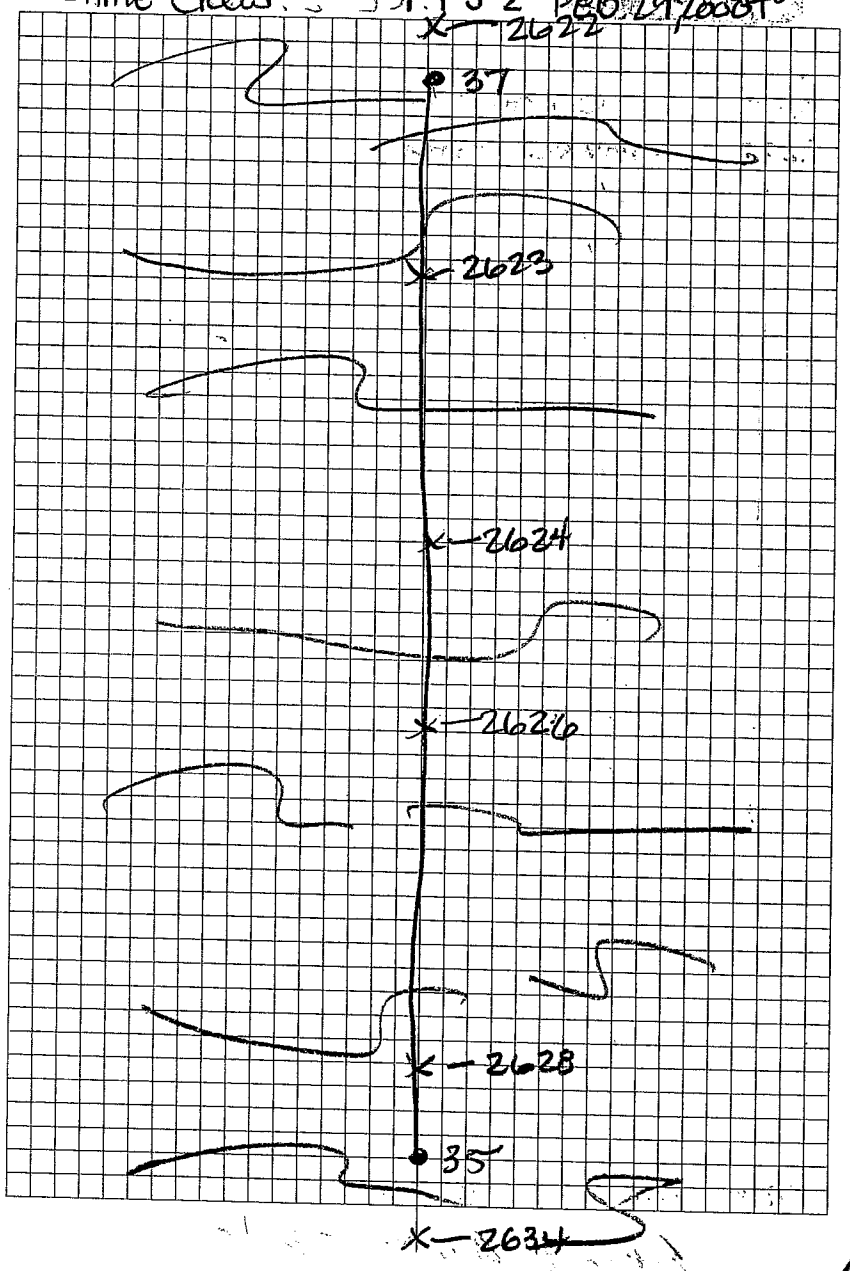
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2634	NATURAL BOTTOM

BASCO ATO3-SM-01

SAME CREW 1132 FEB 29 2008 10



JOB NUMBER 9714 DNR

ATCHAFALAYA EAST PASS
LINE 29-31

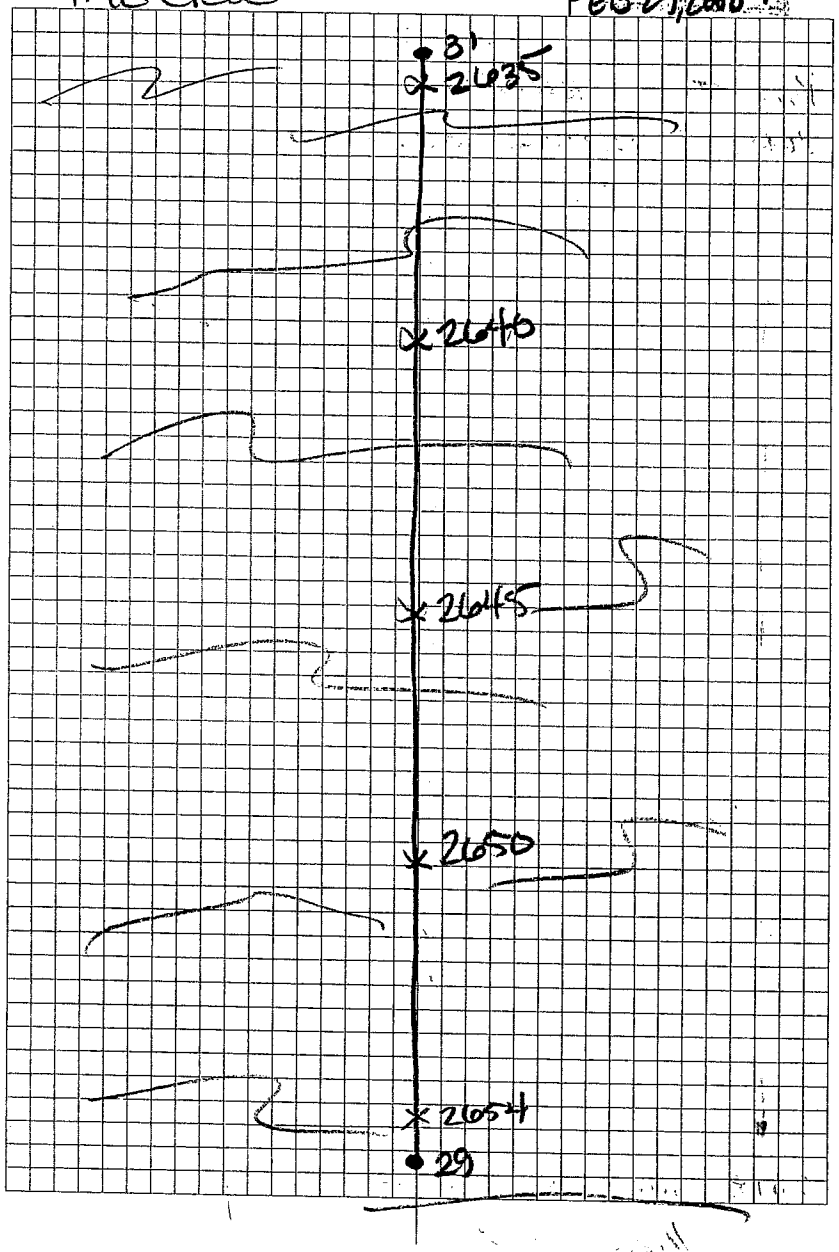
SAME CREW

1132

FEB 29, 2008

POINT #	REMARKS
2635	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2654	NATURAL BOTTOM

BASE @ ATON SM-d



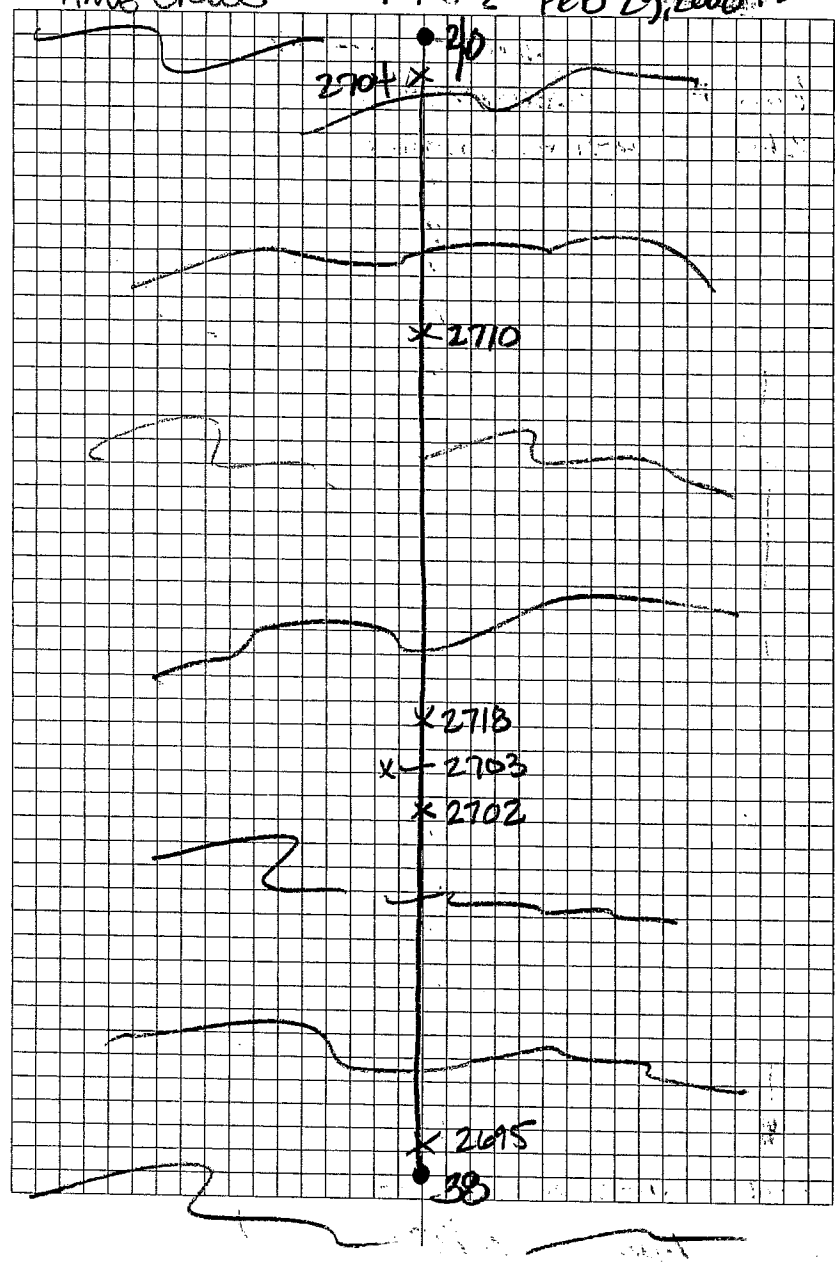
JOB NUMBER 9N4DNR ATCHAFALAYA EAST PASS

LINE 38 - 40

POINT #	REMARKS
2695	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2718	NATURAL BOTTOM

BASE @ AT03-SM-01

SAME CREW 1132 FEB 29, 2008 42



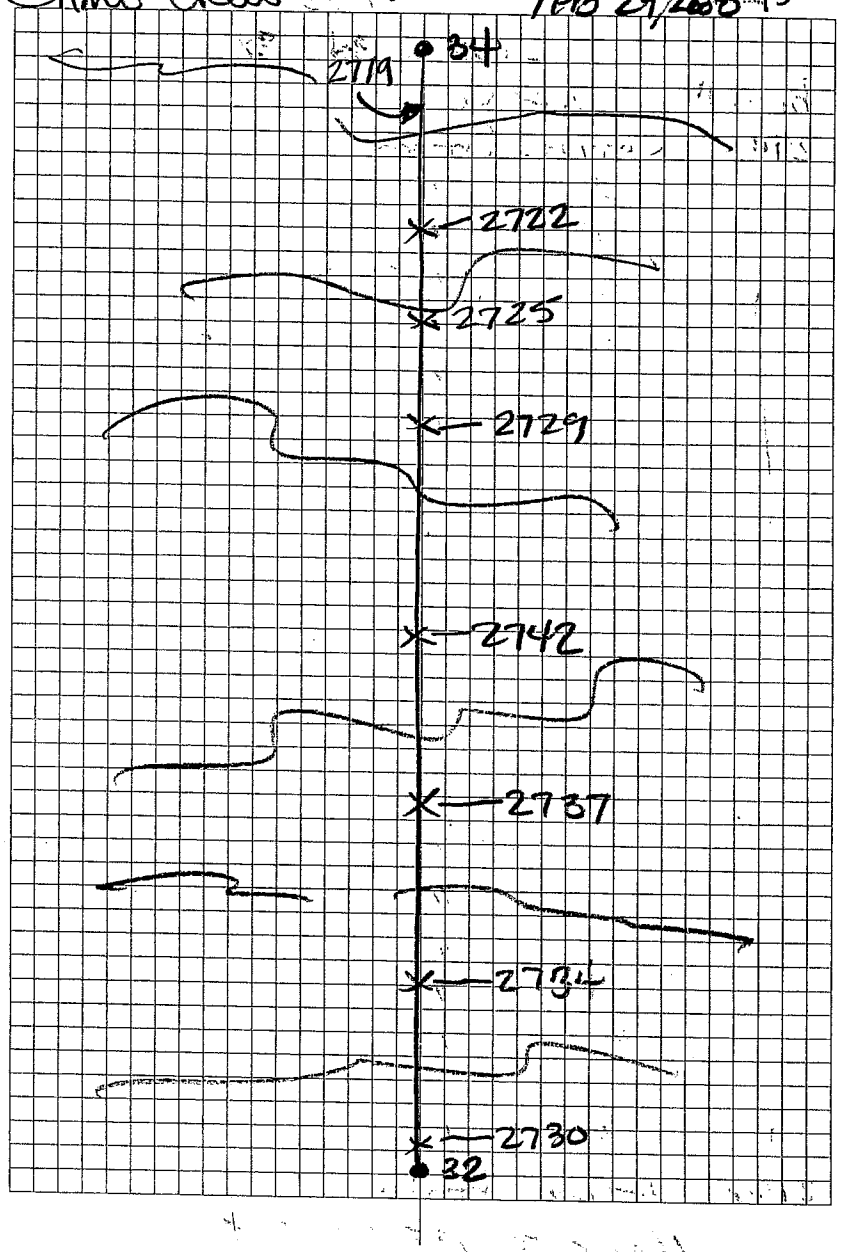
JOB NUMBER 9714.ONR ATCHAFALAYA EAST PASS

LINE 34 - 32

POINT #	REMARKS
2719	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2742	NATURAL BOTTOM

BASE @ AT03-SM01

SAME CREW 1132 Sunny/warm FEB 29, 2008 43



JOB NUMBER 9714 DNR

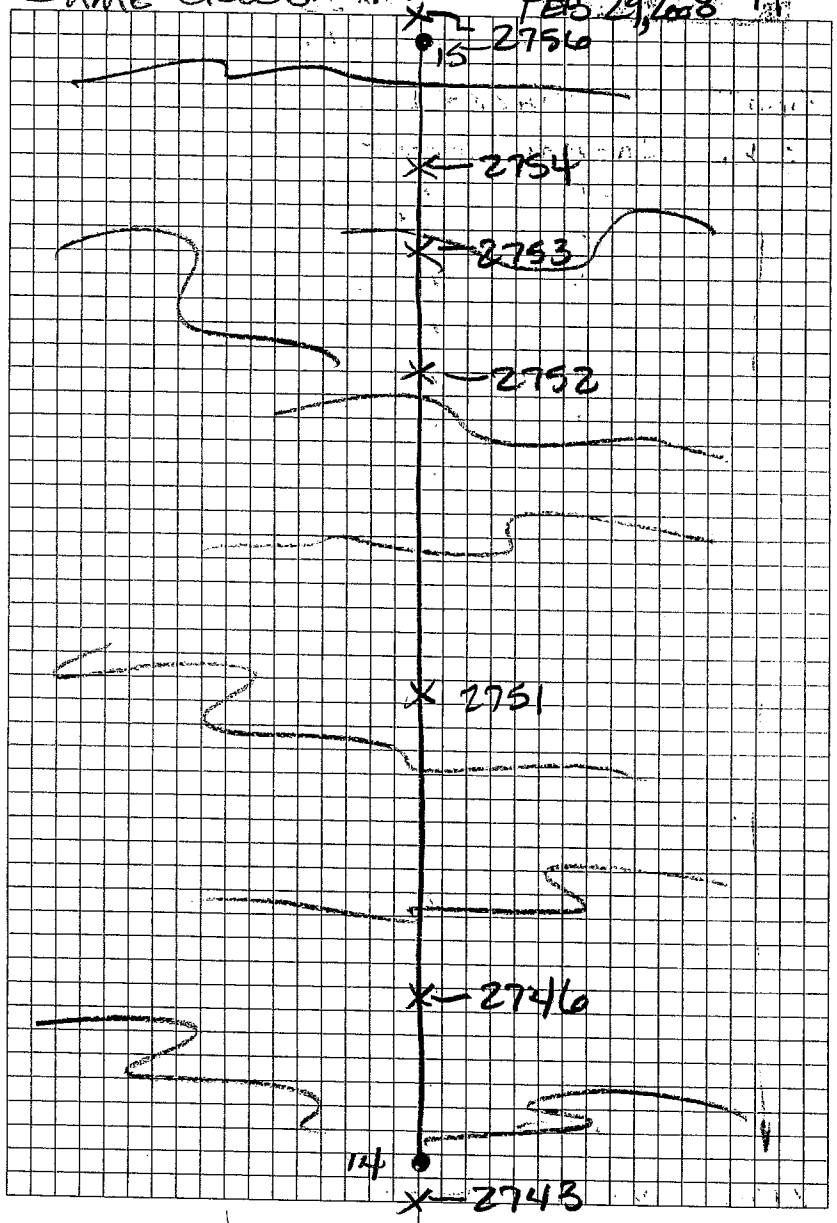
ATCHAFALAYA EAST PASS

LINE 14-15

SAME CREW 1132 FEB 29, 2008 44

POINT #	REMARKS
2743	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2756	NATURAL BOTTOM

BASE ATO3-SM-01



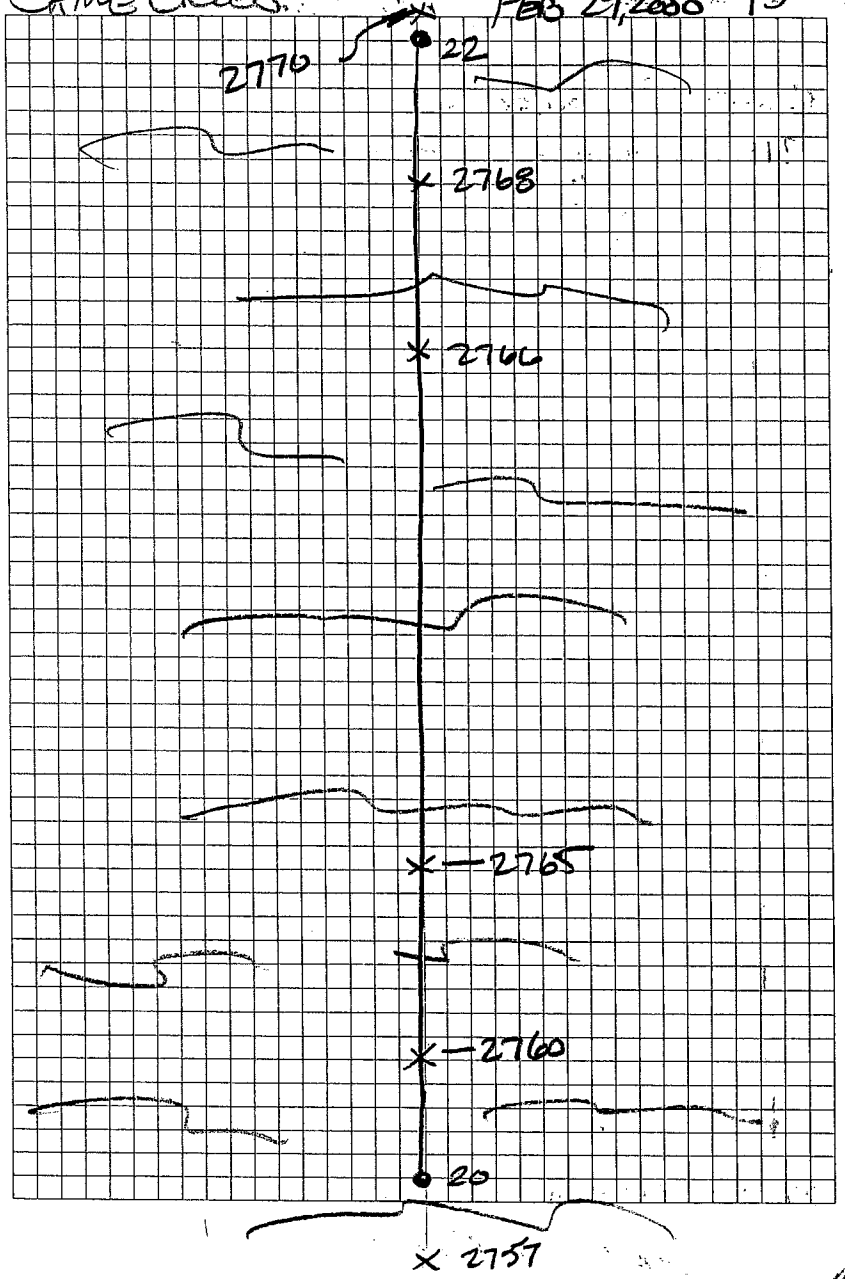
JOB NUMBER 9714 ONR

ATCHAFALAYA EAST PASS
LINE 20-22

SAME CREW 1132 FEB 29, 2008 45

POINT #	REMARKS
2757	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2770	NATURAL BOTTOM

BASE @ AT03-SM-01



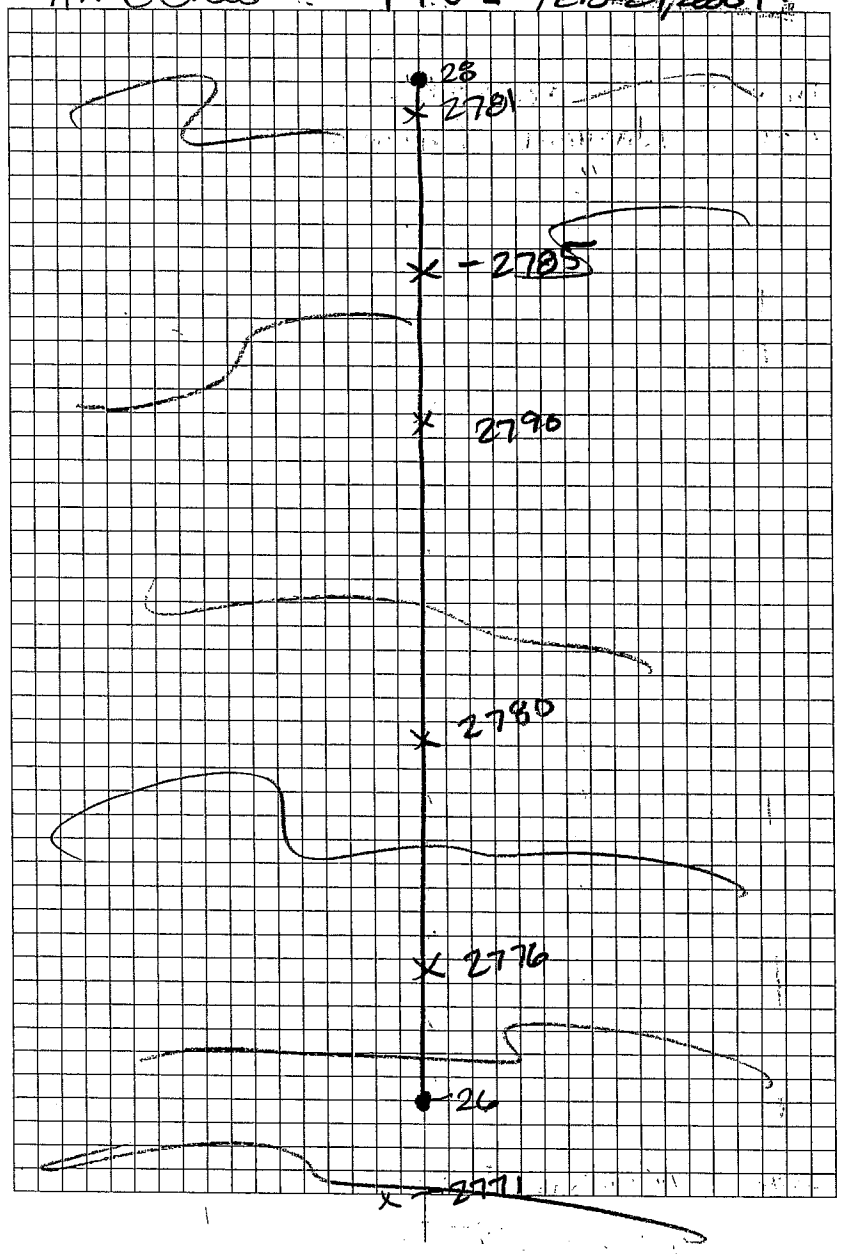
JOB NUMBER 19714 DNR

ATCHAFALAYA EAST PASS
LINE 26 - 28

SAME CREW 1132 FEB 29, 2008 40

POINT #	REMARKS
2771	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2790	NATURAL BOTTOM

BASE @ AT03-SM-01



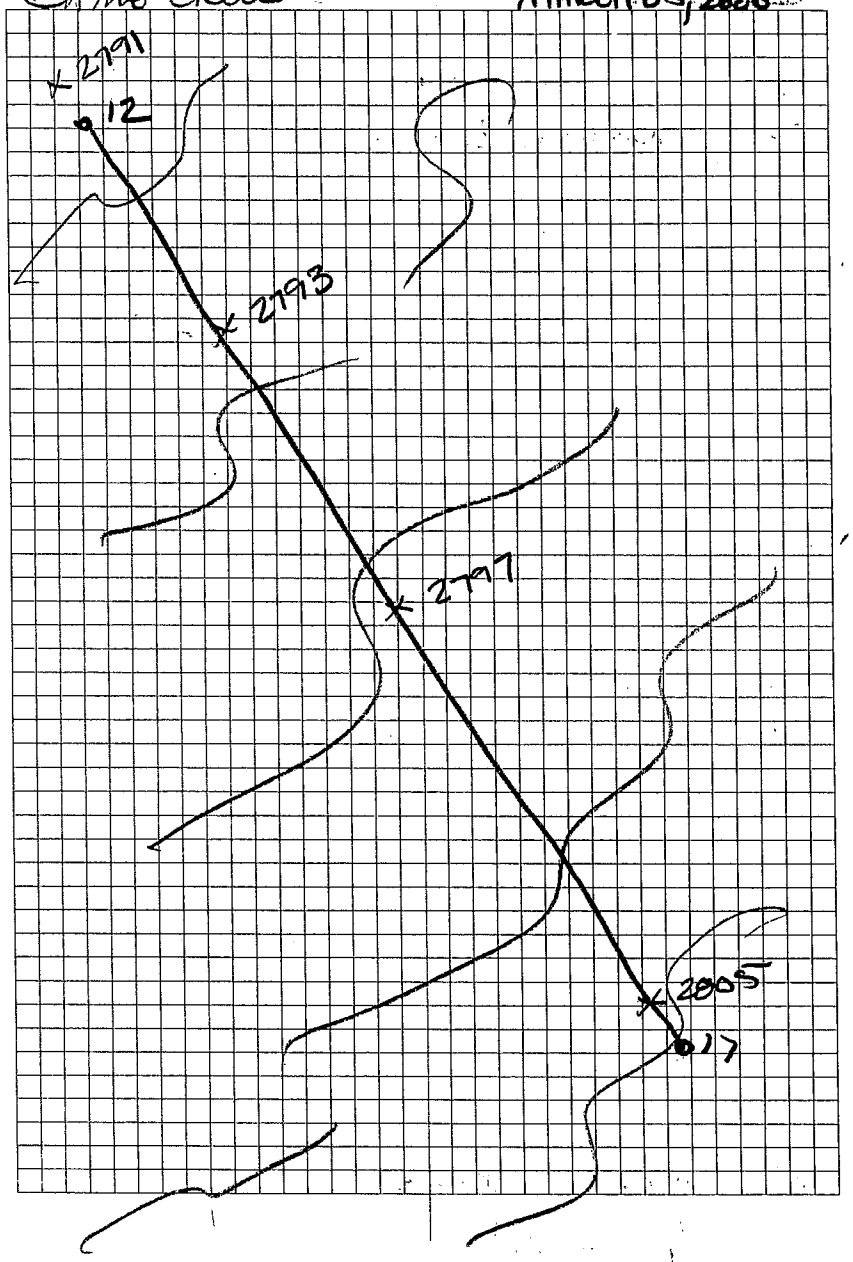
JOB NUMBER 9714DNR ATCHAFALAYA EAST PASS

LINE 12-17

POINT #	REMARKS
2791	NATURAL BOTTOM
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
	" "
2805	NATURAL BOTTOM

BASE @ AT03-SM-01

SAME CREW 1132 MARCH 05, 2008



JOB NUMBER 97140NR

ATCHAFALAYA EAST PASS

LINE 7-13

POINT #	REMARKS
2806	NATURAL BOTTOM
	"
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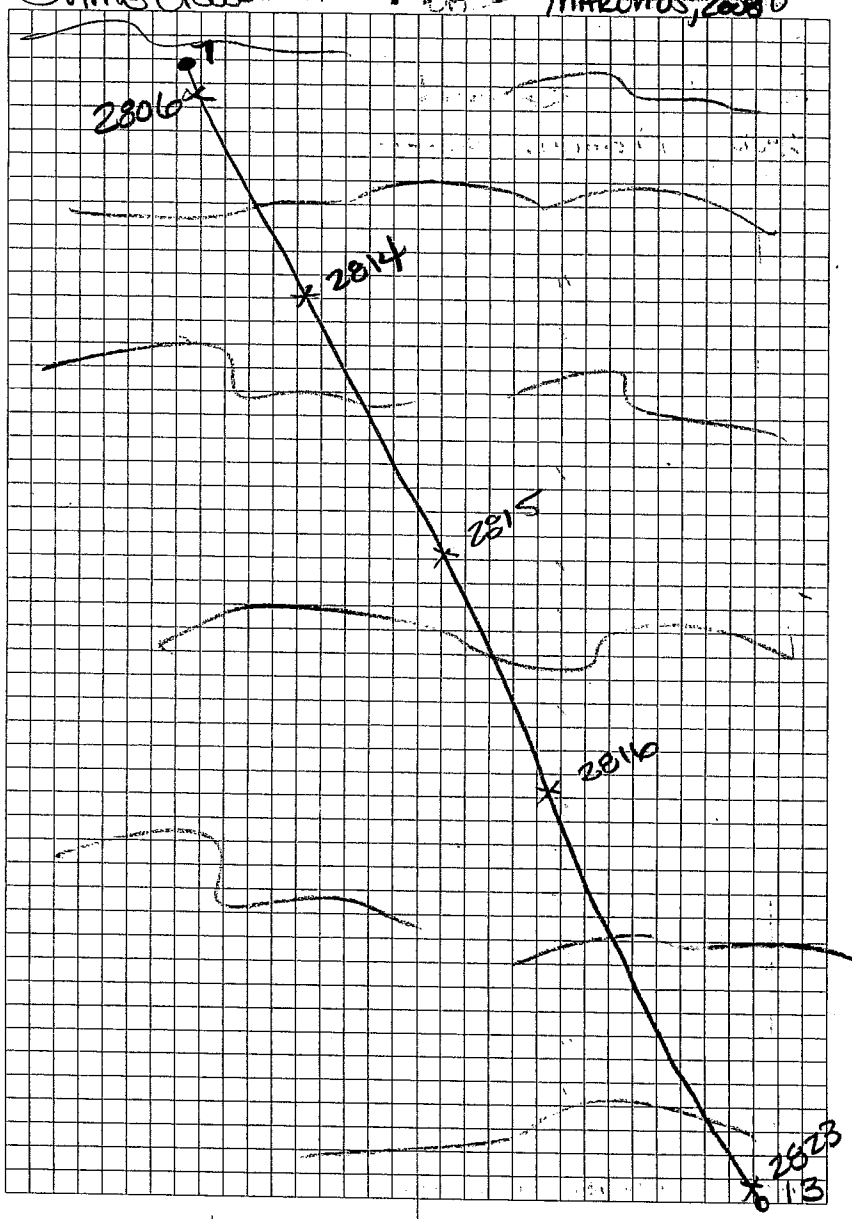
	"
	"
	"
2823	NATURAL BOTTOM

BASE @ AT03-SM01

SAME CREW 1132 MARCH 05, 2008



JOB NUMBER 97140NR ATCHAFALAYA EAST PASS
LINE 4 - 8

SAME CREW 1132 MARCH 05, 2008 49

POINT #	REMARKS
2824	NATURAL BOTTOM
	//
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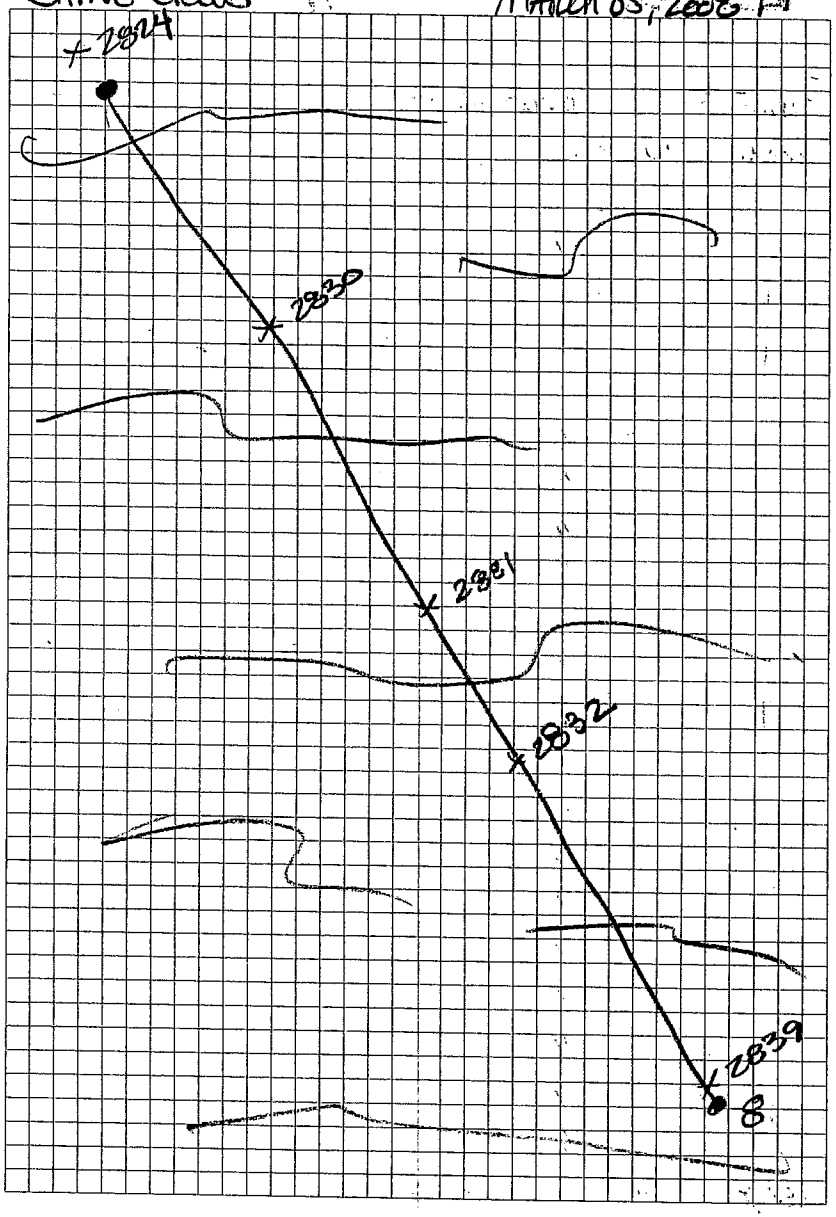
	//
2839	NATURAL BOTTOM

BASED AT 03-SM-01



JOB NUMBER 9714 DNR ATCHAFALAYA EAST PASS

LINE 2-5

POINT #	REMARKS
2840	N. B.
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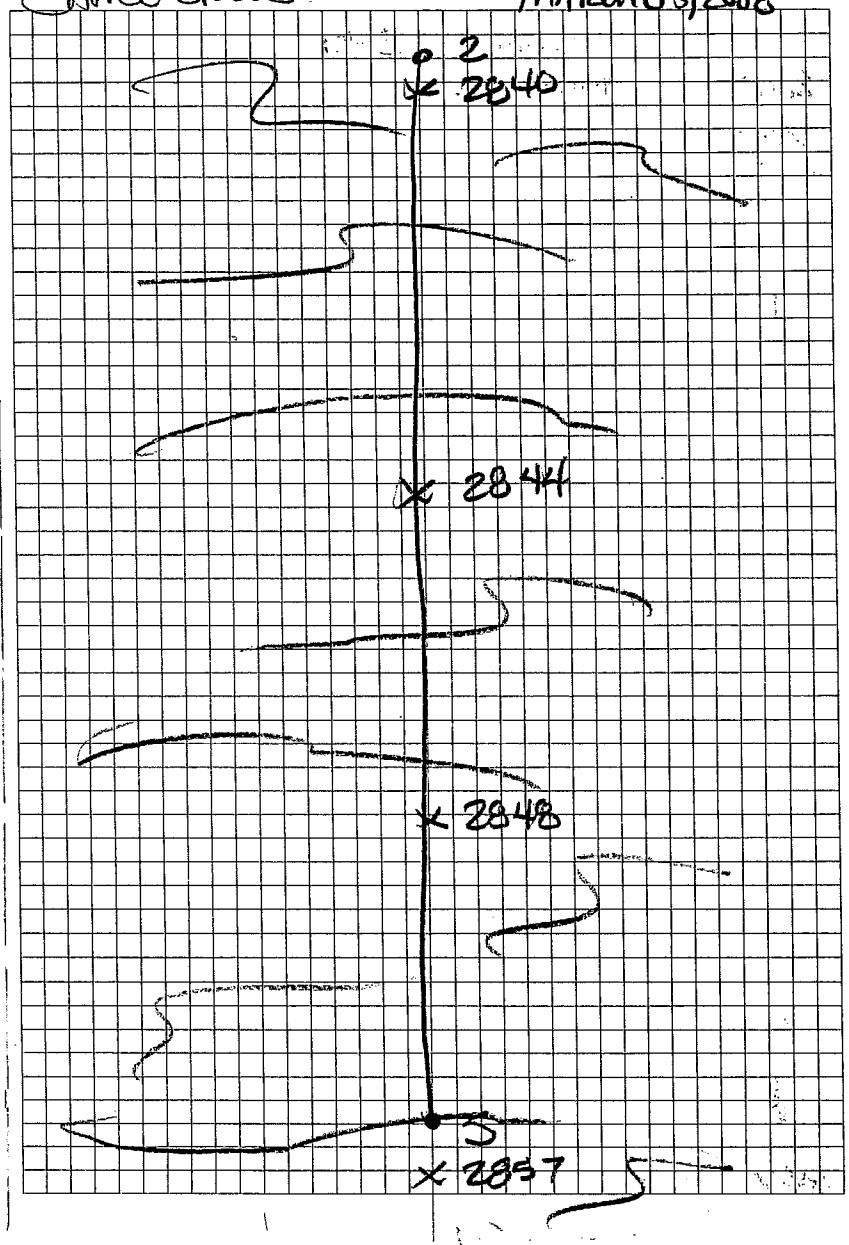
	"
	"
2857	N. B.
	BASE @ ATC4-SM01

Same Crew 1132 March 05, 2008



JOB NUMBER
9714 OUR ATCHAFALAYA EAST PASS

Point #	Remarks
2858	NATURAL BOTTOM
	"
	"
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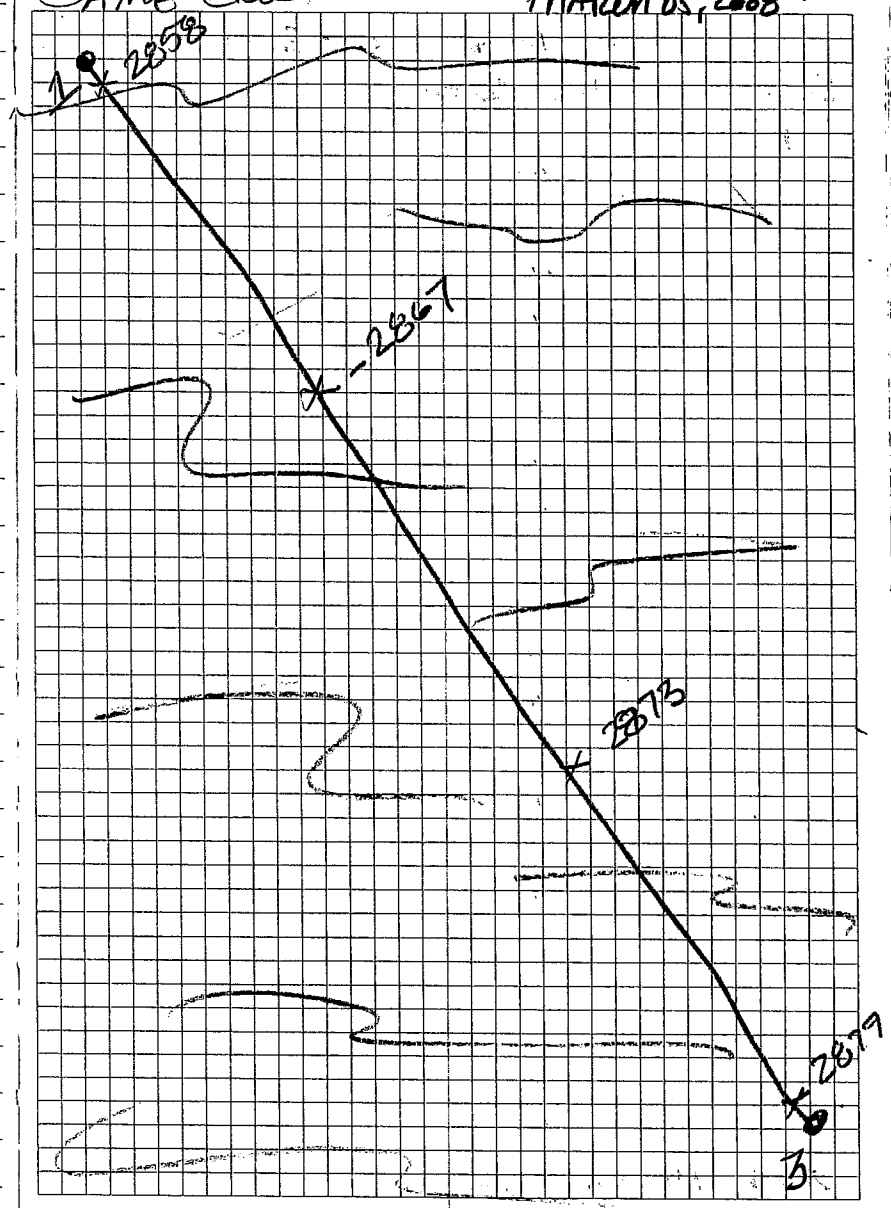
	"
	"
	"
	"
2879	NATURAL BOTTOM

BASED AT03-SM-01

LINE 1-3

SAME CREW 1132 MARCH 05, 2008 51



JOB NUMBER C9714 DNR

ATCHAFALAYA EAST PASS PLUMB ISLAND

LINE 321 – 315

POINT #	REMARKS
2880	NATURAL BOTTOM
	"
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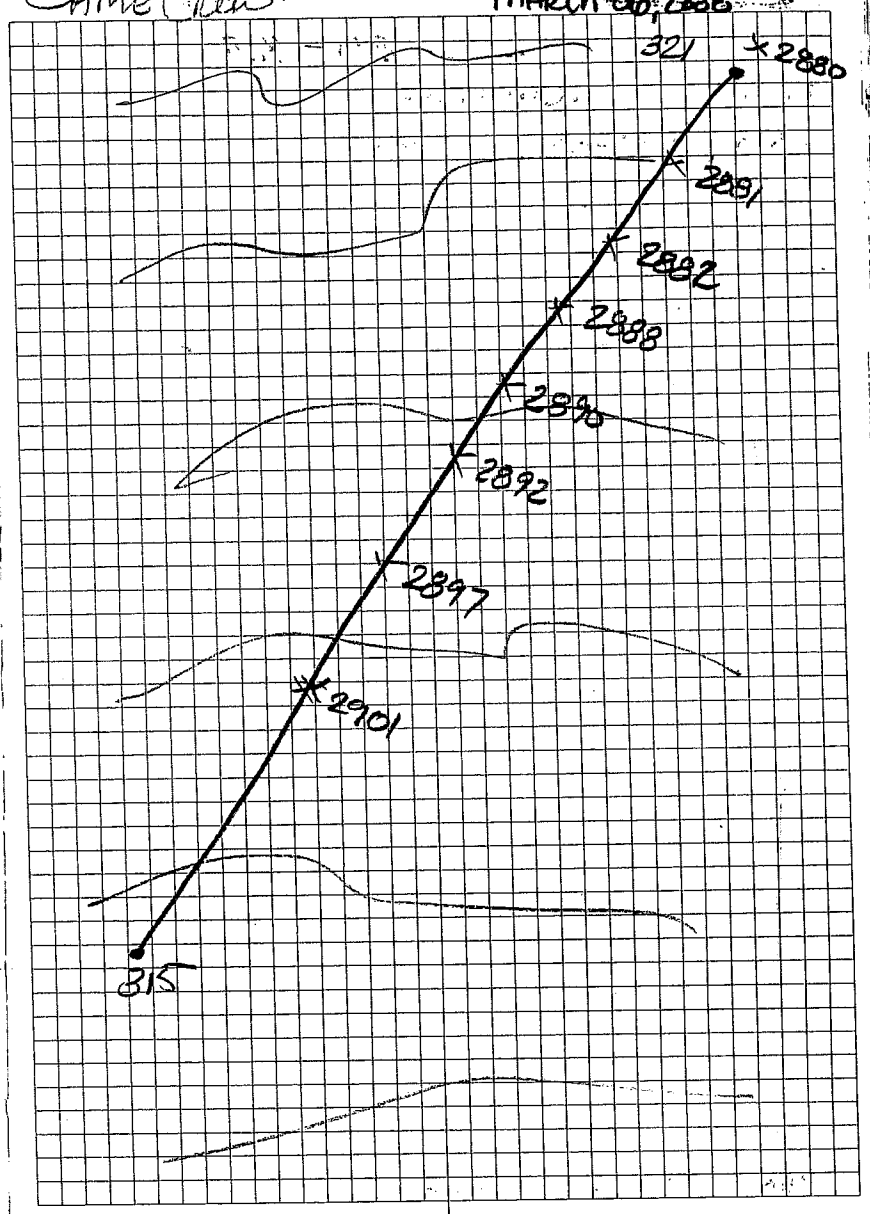
	"
	"
2901	NATURAL BOTTOM

BASE @ AT02-SM-01

SAME CREW 1132 MARCH 06, 2008 52



JOB NUMBER 9714 DNR ATCHAFALAYA EAST PASS

PLUMB ISLAND

LINE 323-327

POINT #	REMARKS
2902	NATURAL BOTTOM
	"
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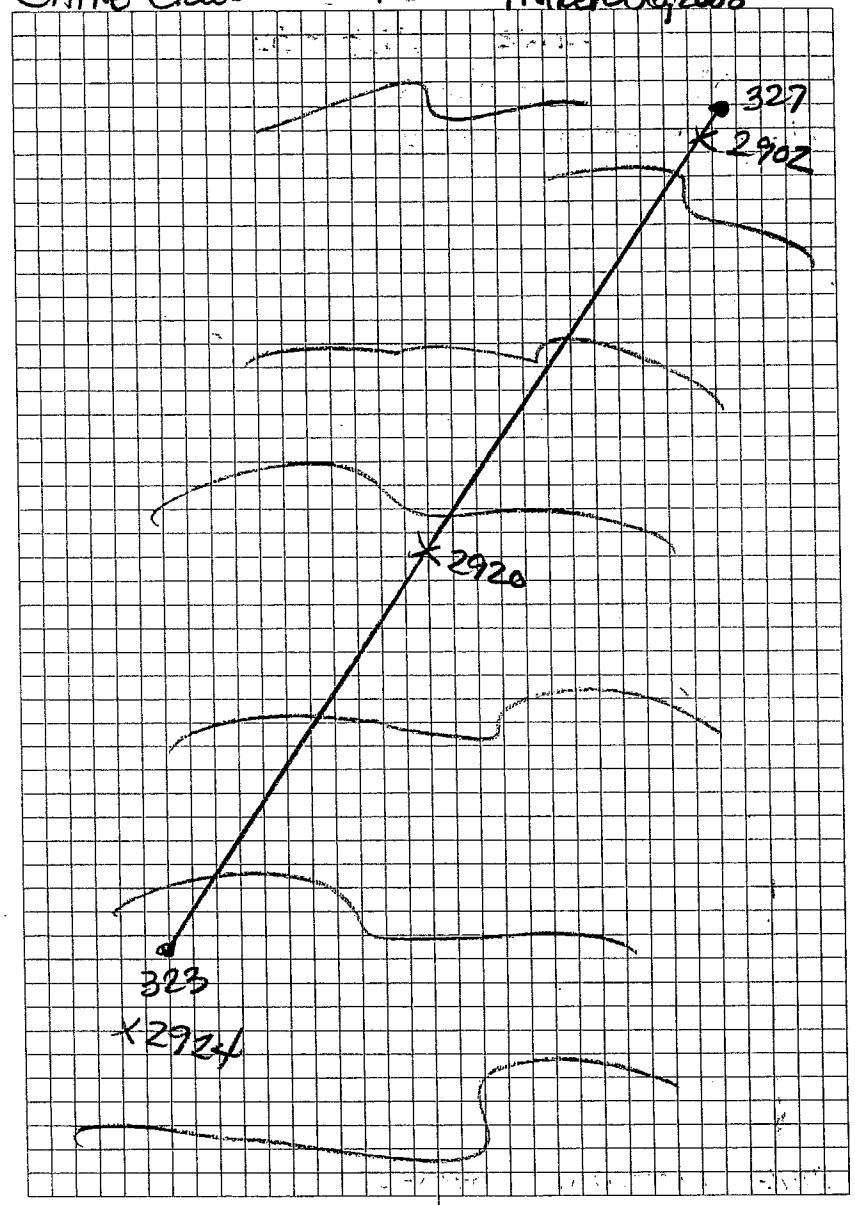
	"
2924	NATURAL BOTTOM

BASE @ AT02-Sh-d

SAME CREW 1132 MARCH 06, 2008



JOB NUMBER ATCHAFALAYA EAST PASS
9724 DNR PLUMB ISLAND
LINE: 329 – 330

POINT #	REMARKS
2925	NATURAL BOTTOM
	"
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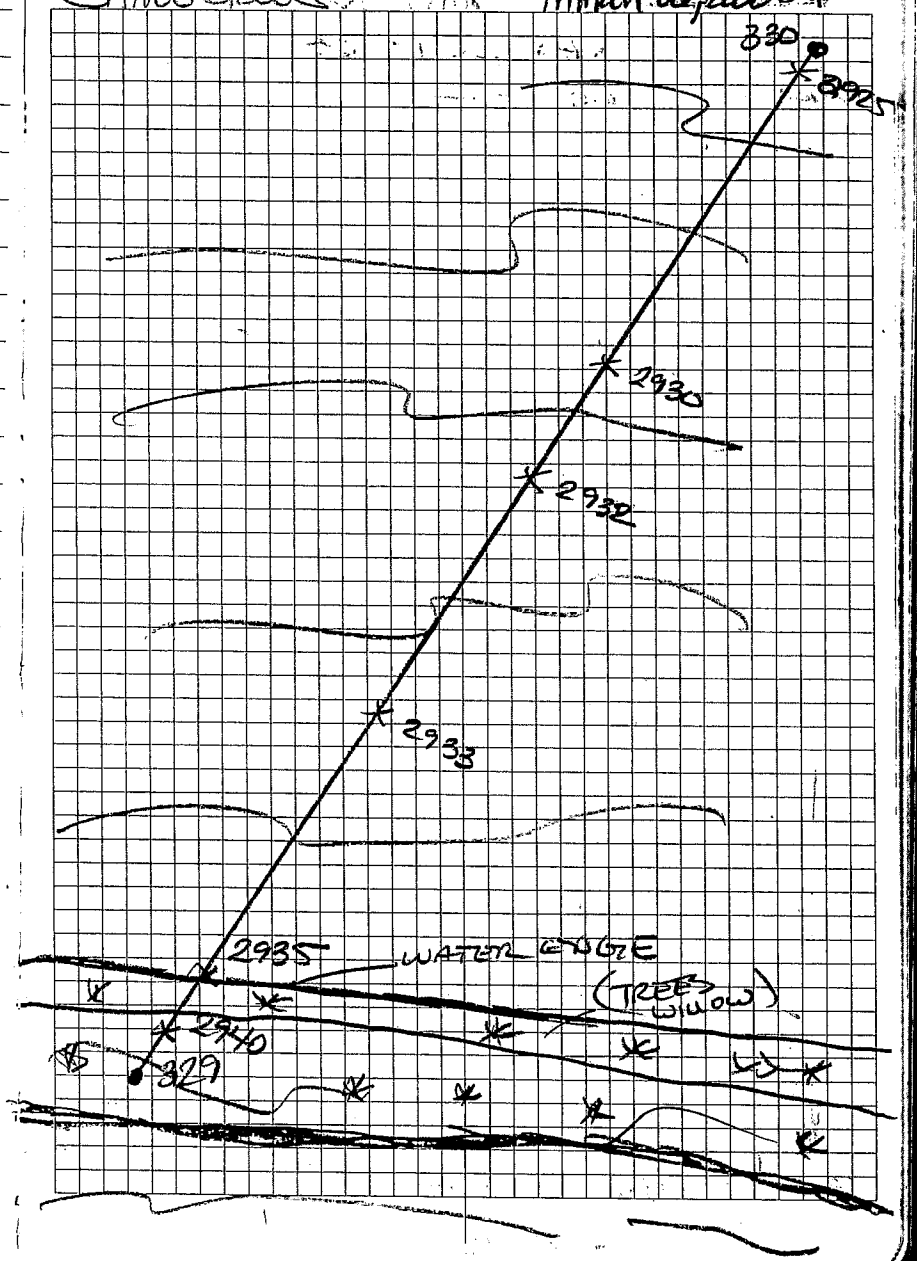
	"
	NATURAL BOTTOM
2935	WATERS EDGE
2936	NATURAL GROUND
2937	" "
2938	" "
2939	" "
2940	NATURAL GROUND

BASE@ATO2-SM01

SAMBRUNO 1132 MARCH 02, 2008 54



JOB NUMBER 9714 DNR

ATCHAFALAYA EAST PASS

PLUMB ISLAND

POINT #	REMARKS
2941	NATURAL BOTTOM
	"
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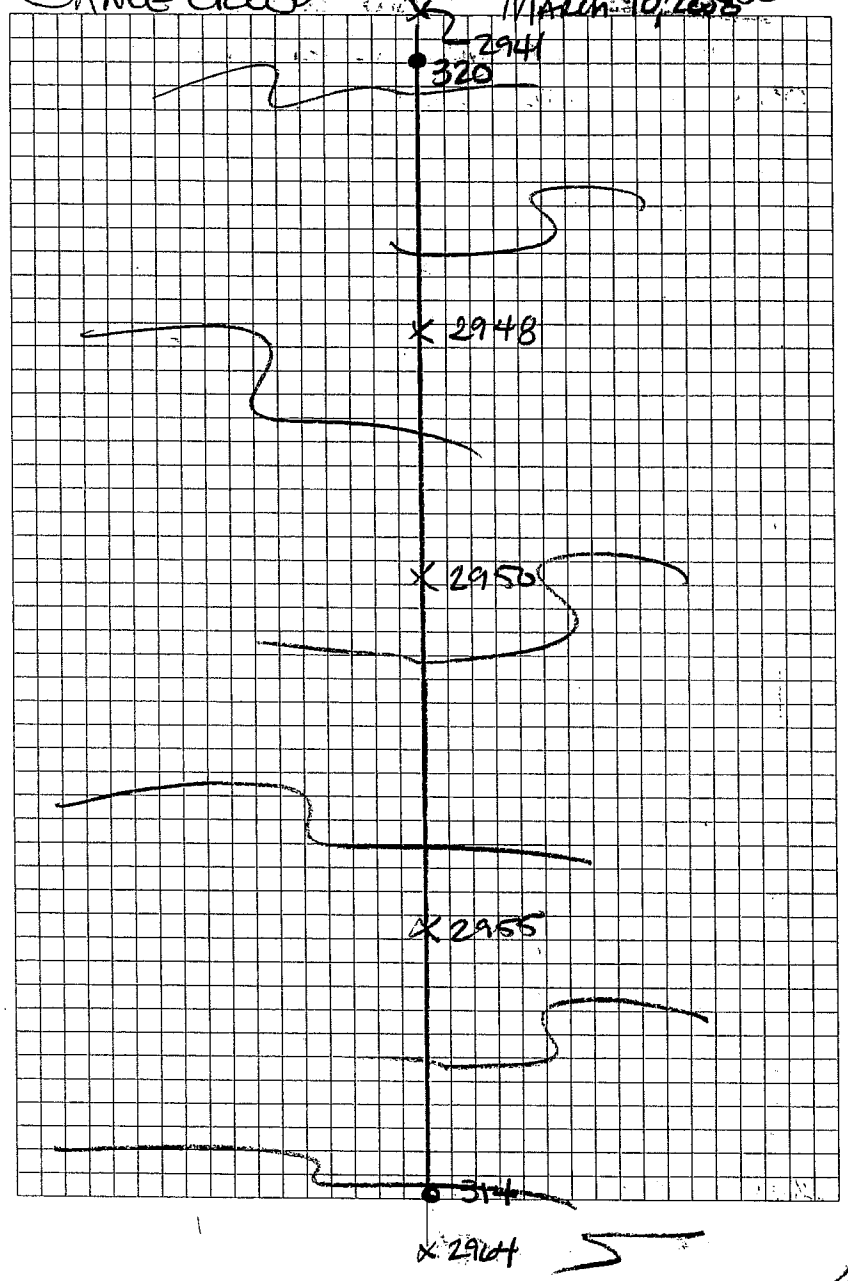
	"
2964	NATURAL BOTTOM

BASE @ ATOZ-SM-01

LINE 314-320

SAME CREW 1132 MARCH 10, 2008



JOB NUMBER 9714 ONR

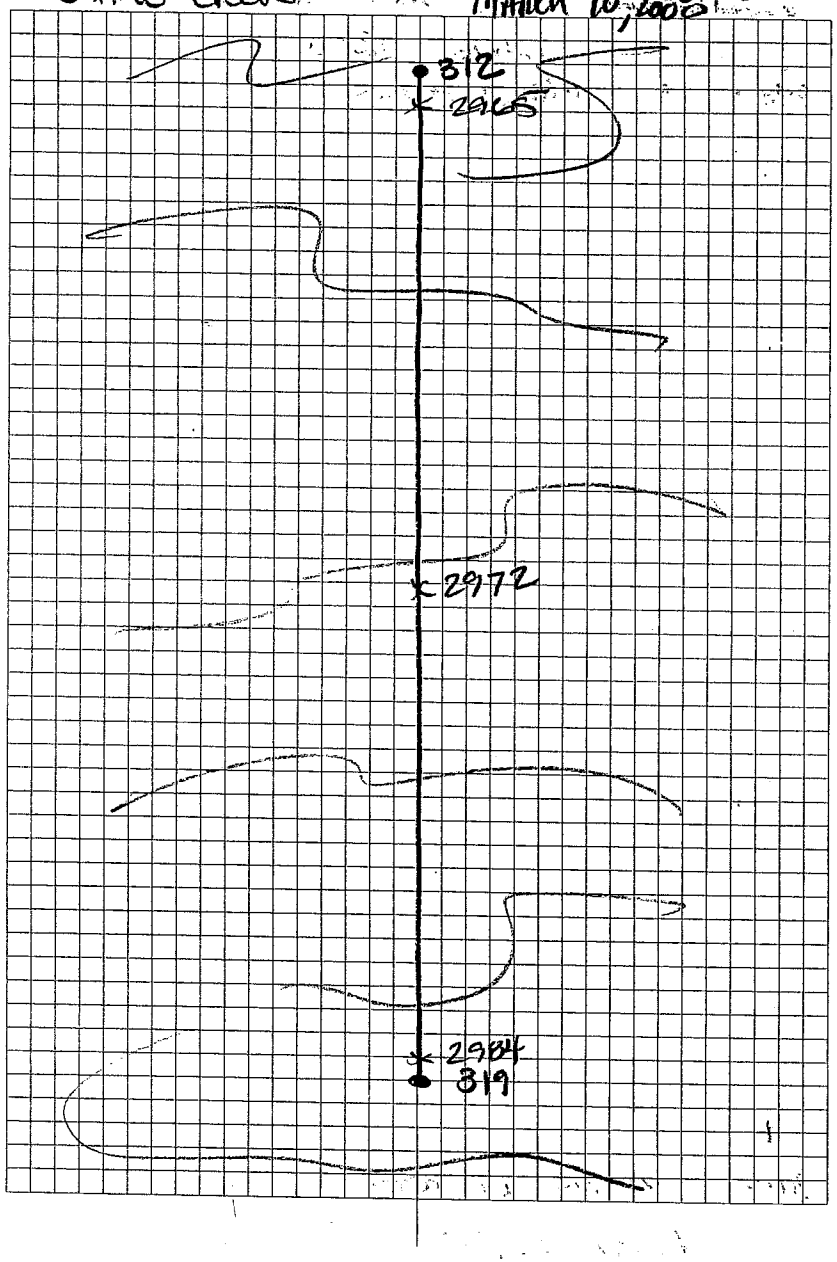
ATCHAFALAYA EAST PASS
PLUMB ISLAND

LINE 312-319

POINT #	REMARKS
2965	NATURAL BOTTOM
2984	NATURAL BOTTOM

BASE @ AT02-SM-01

SAME CREW 1132 March 10, 2001 5ft



JOB NUMBER ATCHAFALAYA EAST PASS
9714 DNR PLUMB ISLAND
LINE 307-317

2985 NATURAL BOTTOM
"
"
"

JOB NUMBER 9704 DNR

ATCHAFALAYA EAST PASS

PLUMB ISLAND

SAME CREW 1132 MARCH 10, 2008

58

POINT #	REMARKS	LINE 303 - 315
3008	NATURAL BOTTOM	
	"	
	"	
	"

JOB NUMBER 97.14 DNR

ATCHAFALAYA EAST PASS

PLUMB ISLAND

SAME CREW 1132 MARCH 10, 2008

59

POINT #	REMARKS	LINE 302 - 313
3030	NATURAL BOTTOM	
	"	
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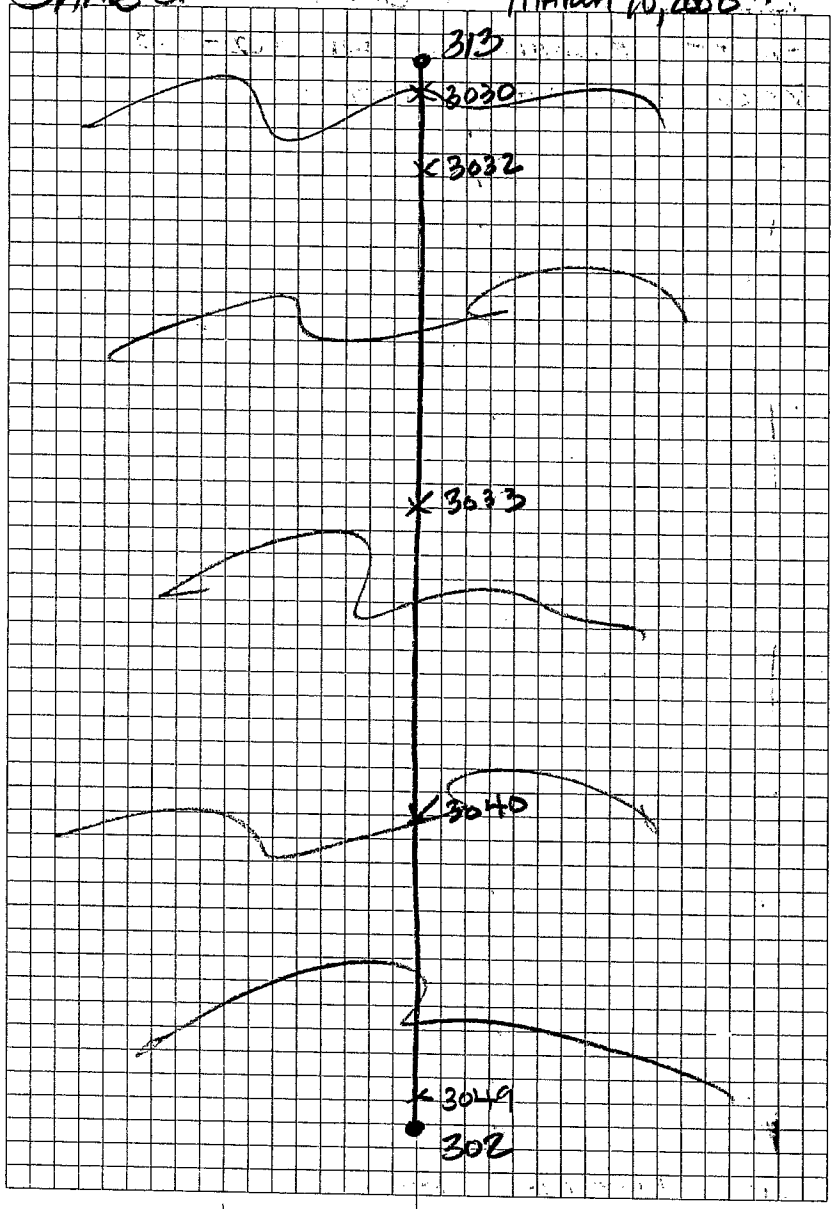
3049	NATURAL BOTTOM	

BASE CATOL-SM01



JOB NUMBER 9714 ATCHAFALAYA EAST PASS
PLUMB ISLAND

Point #	Remarks	Line 300-310
3050	NATURAL BOTTOM	
	"	
	"	
	"

JOB NUMBER 9714DNR

ATCHAFALAYA EAST PASS

PLUMB ISLAND

PT # Remks LINE 297-306

1132

SAME CREW

MARCH 11, 2008

307	NATURAL BOTTOM	
	"	
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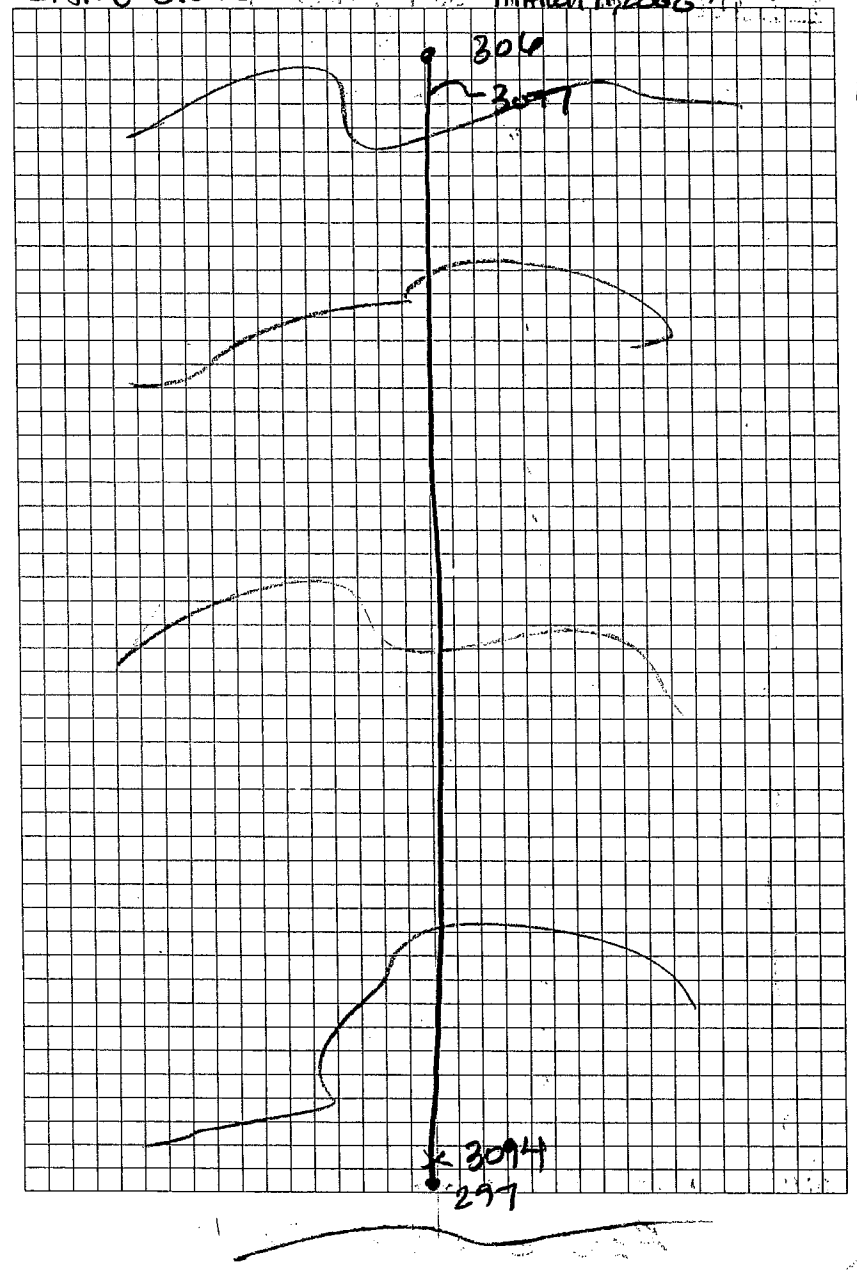
	"	
3094	NATURAL BOTTOM	

BASE @ ATC2-5M01



9714DNR ATCHAFALAYA EAST PASS

PLUMB ISLAND LINE 295-299

3095 NATURAL BOTTOM

"

"

"

JOB NUMBER 97140NR

ATCHAFALAYA EAST PASS

PLUMB ISLAND

POINT #	REMKS. LINE
3116	NATURAL BOTTOM
	"
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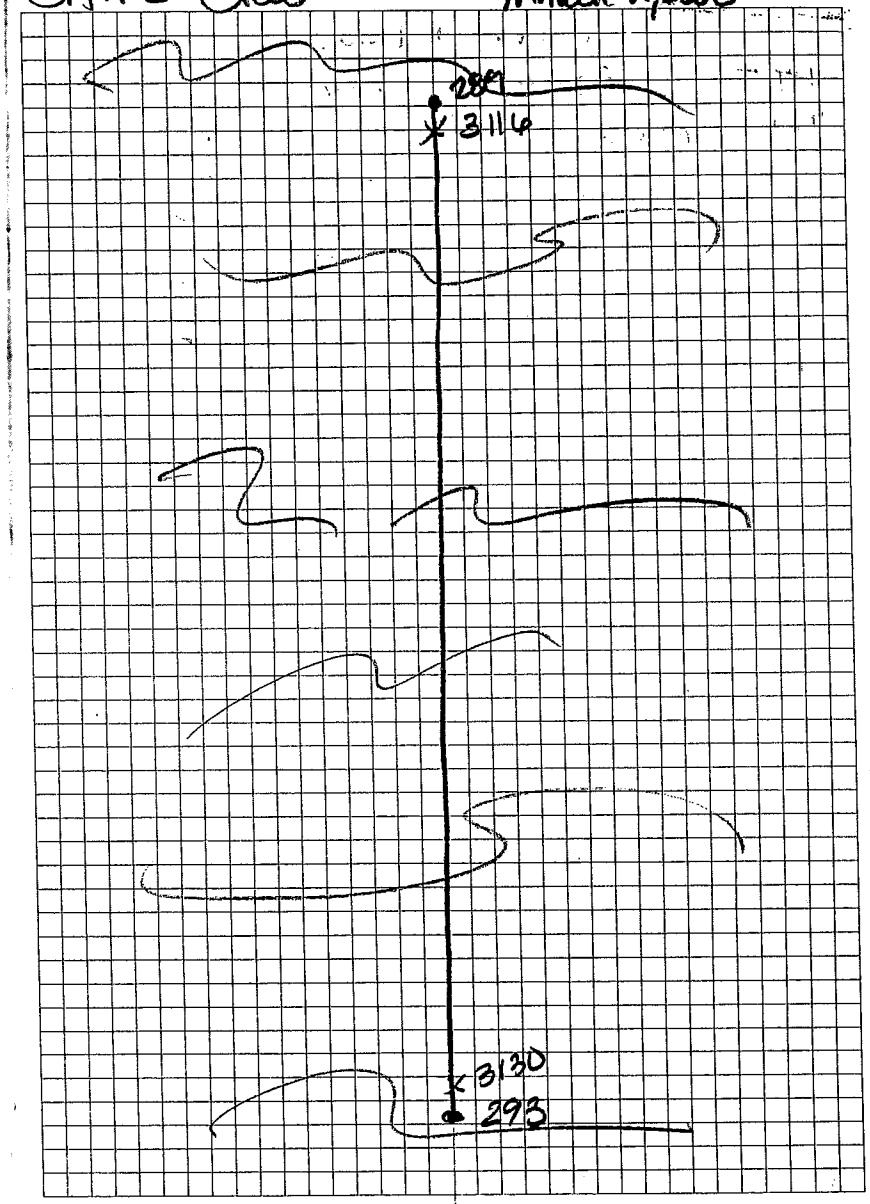
	"
3130	NATURAL BOTTOM

BASE @ ATO2 - SM01

SAME CREW 1132 MARCH 11, 2008 U3



JOB NUMBER 97140NR ATCHAFALAYA EAST PASS

Plumb ISLAND

PT# Reinks Line 283-287

3131 NATURAL BOTTOM

"

"

"

JOB NUMBER ATCH. EAST PACKS
97140NR Plumb Island Cons.

POINT #	REMARKS LINE 277 – 308
3147	NATURAL BOTTOM
	"
	"
	"

JOB NUMBER 9114

ATLHAF EAST PASS

Plumb ISLAND

PT #	Remks	Line 284-322
3264	NATURAL BOTTOM	
	"	
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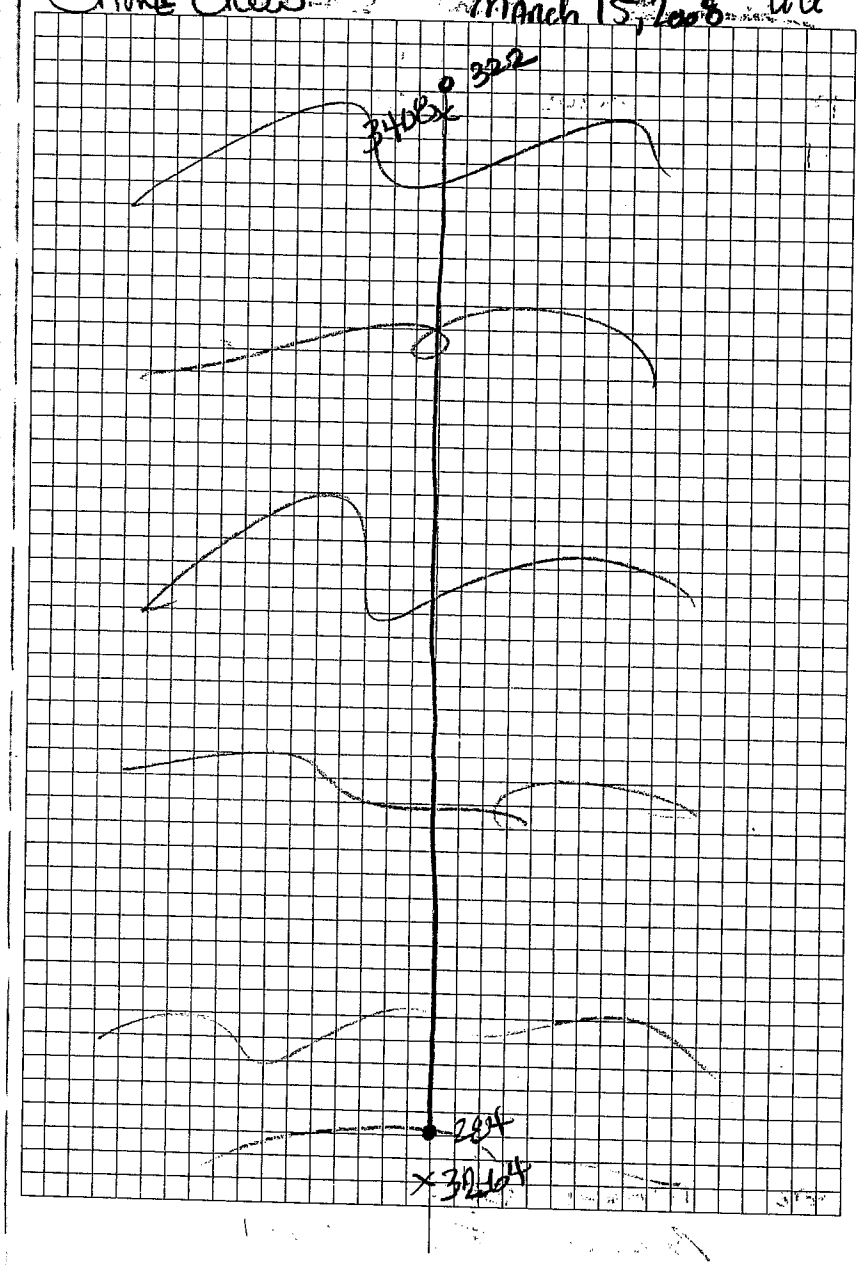
	"	
3408	NATURAL BOTTOM	
	BASE @ AT02 - SM01	

Stone Crew 1132 March 15, 2008 WL



JOB NUMBER 9114

ATCH. EAST PASS
PLUMB ISLAND

Pt #	Remarks	Line 291-325
3409	NATURAL BOTTOM	
	"	
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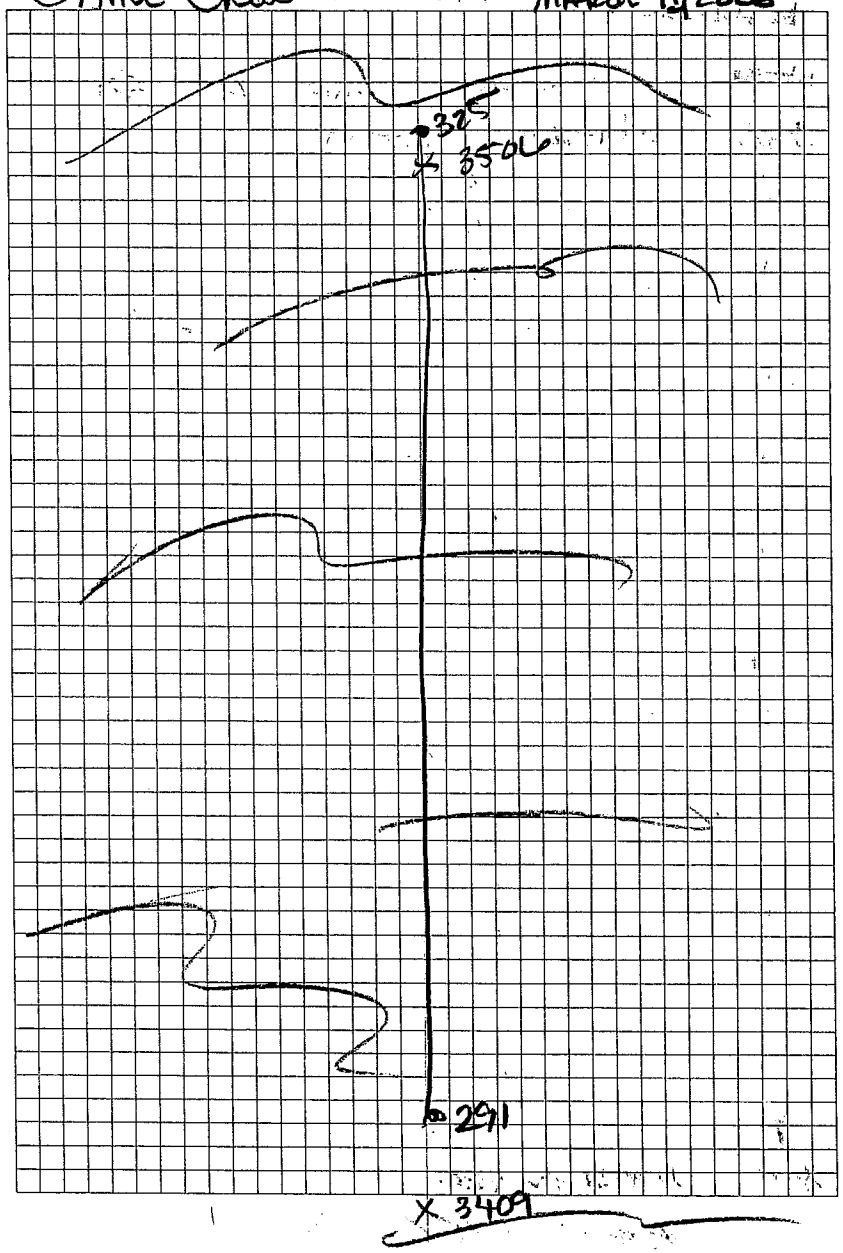
	"	
3506	NATURAL BOTTOM	

BASE @ AT02-SM01

SAME CREW 1132 MARCH 15 2008



JOB NUMBER 9714

ATLH. EAST PASS
PLUMB ISLAND

PT #	Remarks
	LINE 298 – 326
3507	NATURAL BOTTOM
	"
	"
	"

JOB NUMBER 9714 ATCH. EAST PASS
PLUMB ISLAND
LINE: 311 - 324

PT #	Remarks
3586	NATURAL BOTTOM
	"
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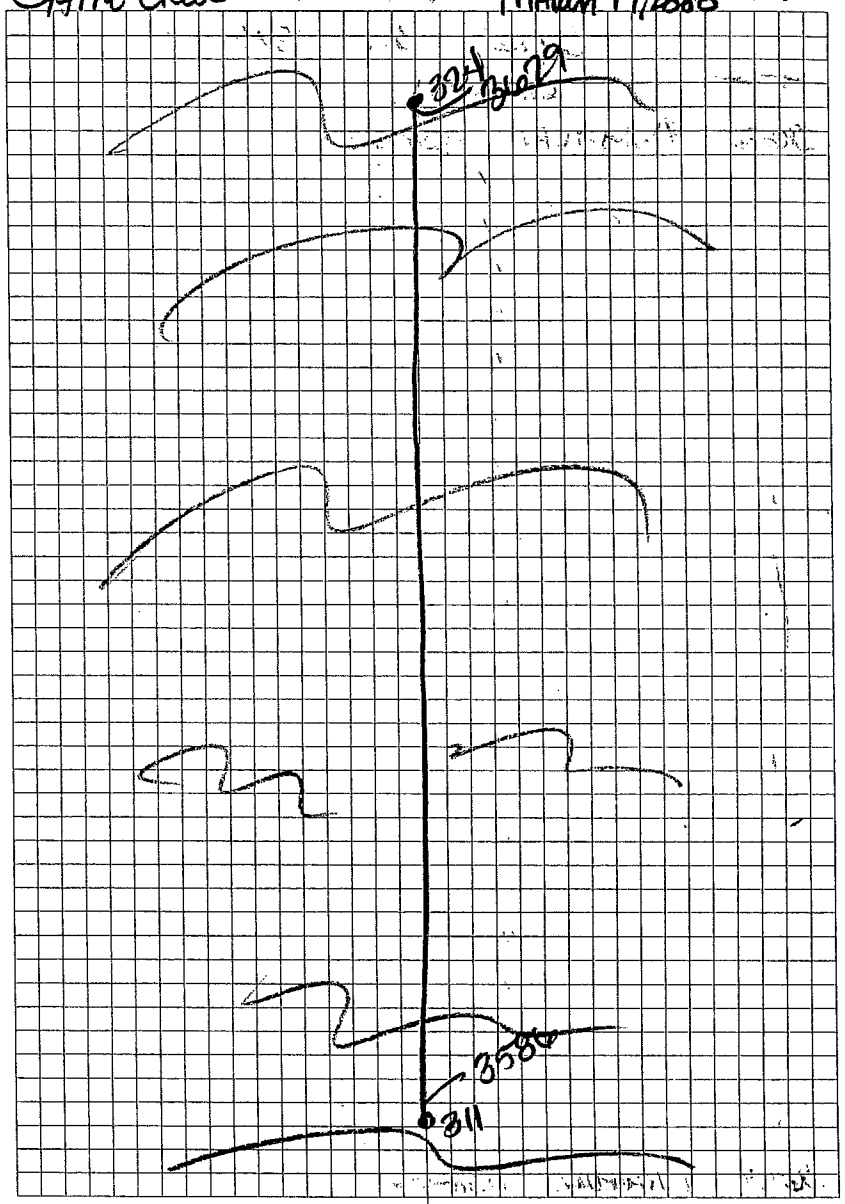
	"
	"
3629	NATURAL BOTTOM

BAKER ATOR-SM61

SAME CREW 1132 MARCH 17/2008 69



JOB NUMBER 9714

ATCH EAST PASS
PLUMB ISLAND

LINE 316 – 328

PT #	Remarks
3630	NATURAL BOTTOM
	"
	"
	"

JOB NUMBER 9714

ATCH. EAST PASS
PLUMB ISLAND
LINE 316 - 305

PT #	RMKS
36660	NATURAL BOTTOM
	"
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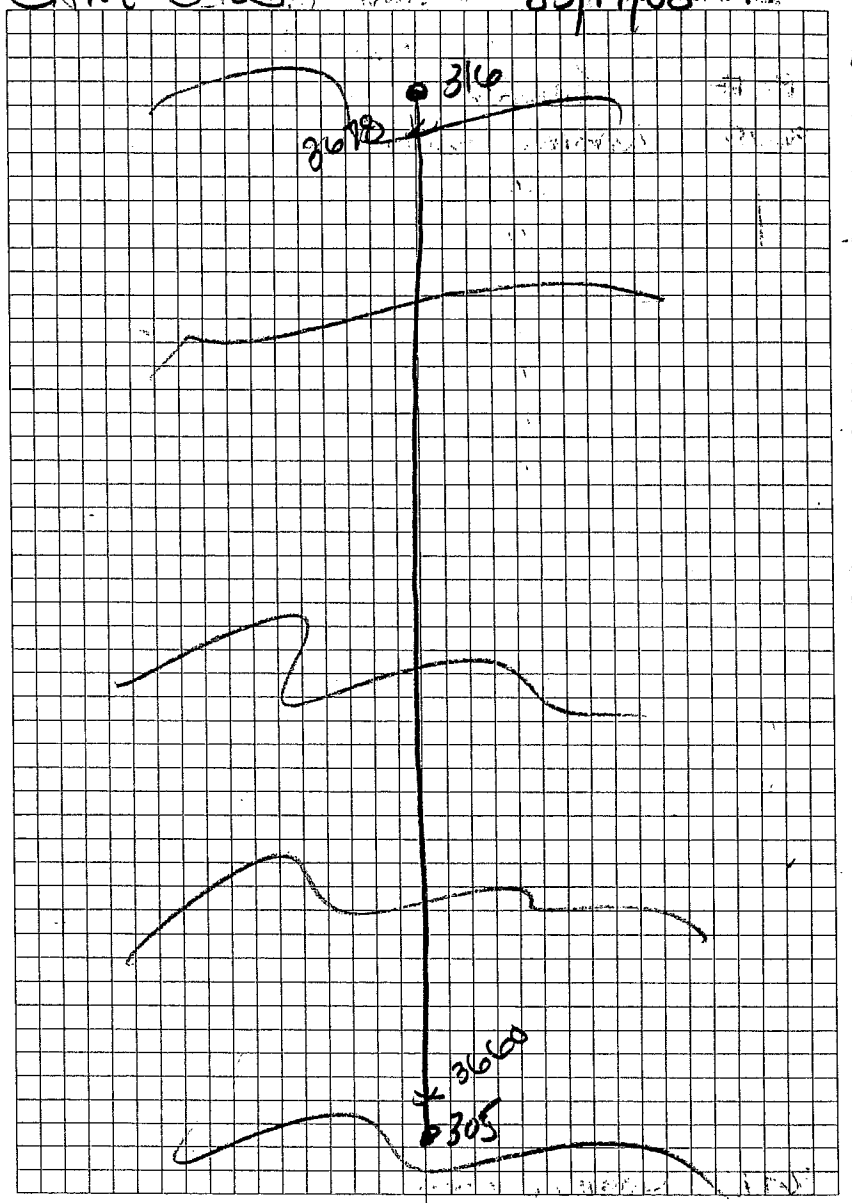
	"
36678	NATURAL BOTTOM

BASE @ ATOR-SMOA

SAME CREW 1132 03/17/08 71



JOB NUMBER 9714 ATCH. EAST RACKS

PLUMB ISLAND

Line

PT #	REMARKS 301 -311
3679	NATURAL BOTTOM
	"
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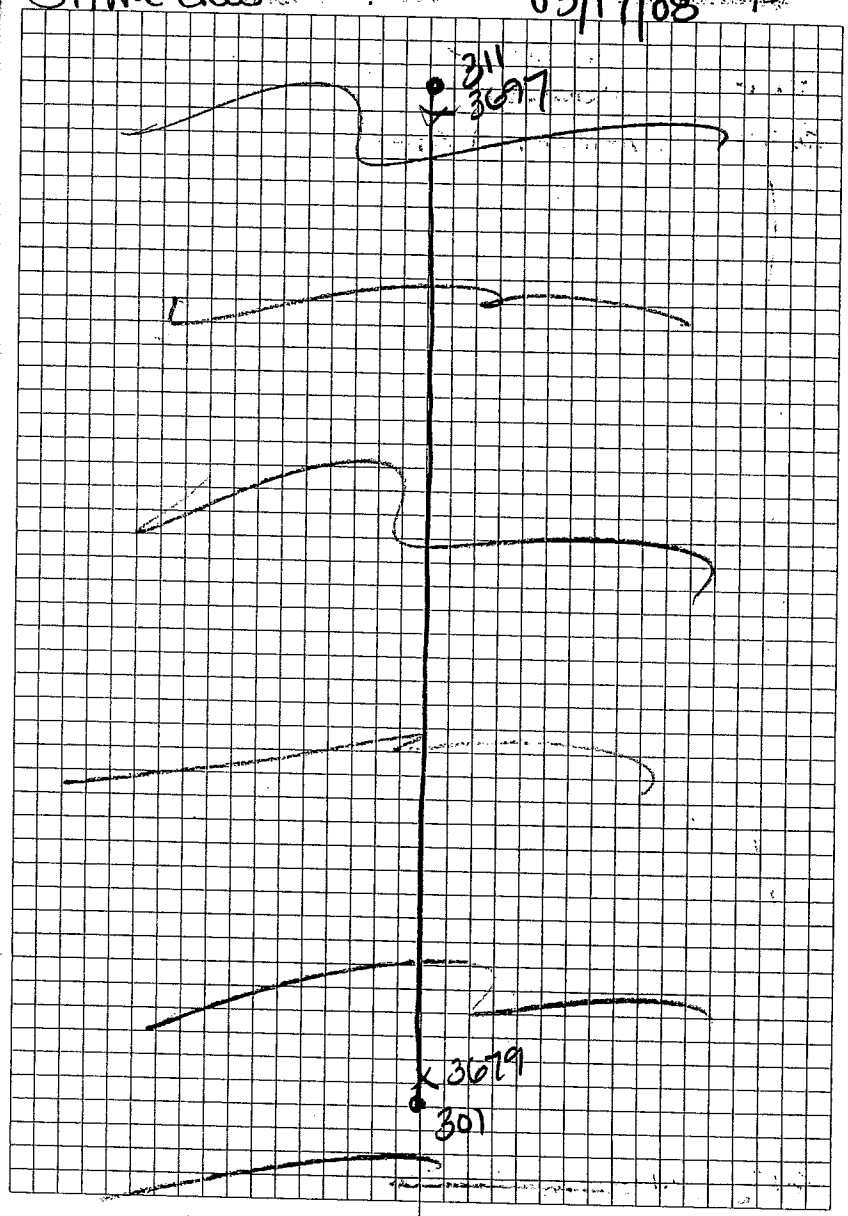
	"
3697	NATURAL BOTTOM

BAKE @ AT02-SM01

SAME CREW 1132 03/17/08 72



JOB NUMBER ATCH. EAST PASS
9714 Plomb Island

LINE 292 - 298

PT #	Rules
3698	NATURAL BOTTOM
	"
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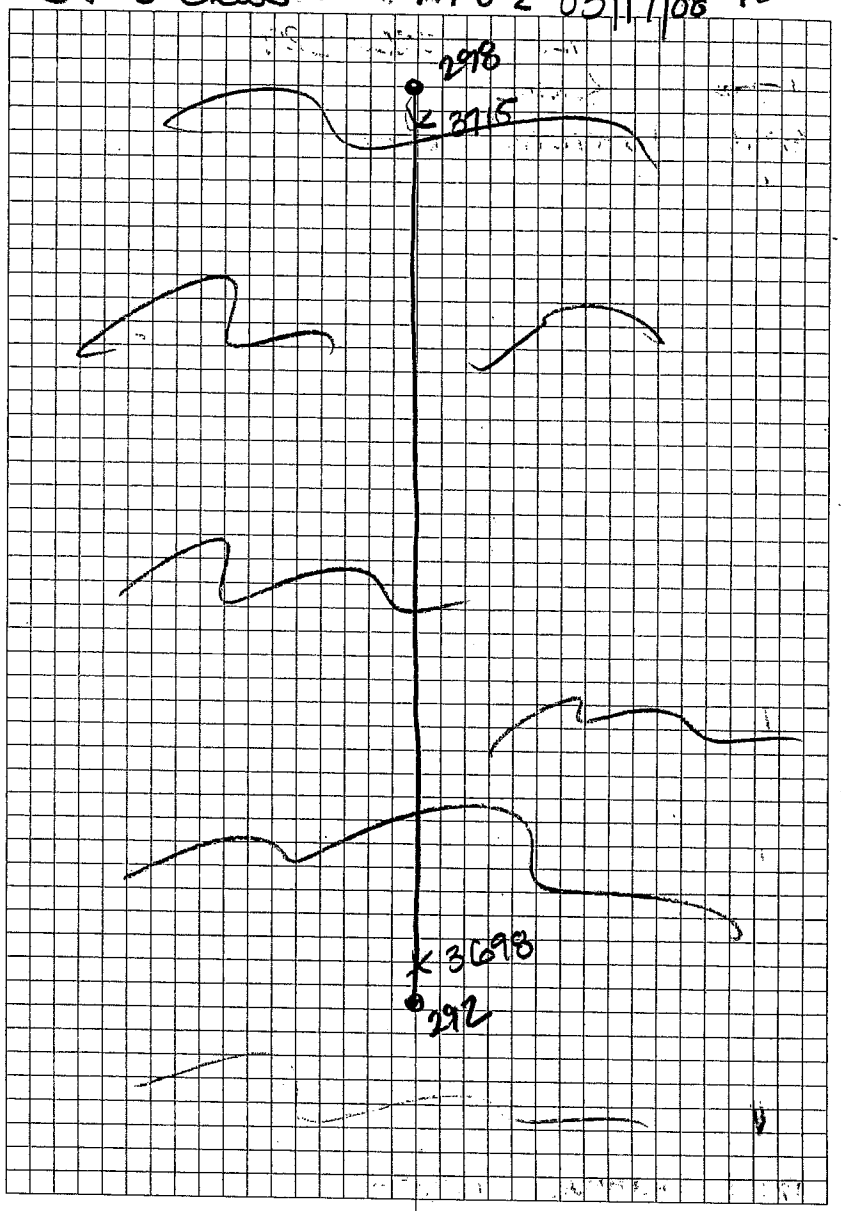
	"
3715	NATURAL BOTTOM

BASE @ AT02 - SHAGI

Same Cards 1132 03/17/08 73



JOB NUMBER 9714 ATCH. EAST PASS
PLUMB ISLAND
LINE: 286 - 291

PT#	Rmks
3716	NATURAL BOTTOM
	"
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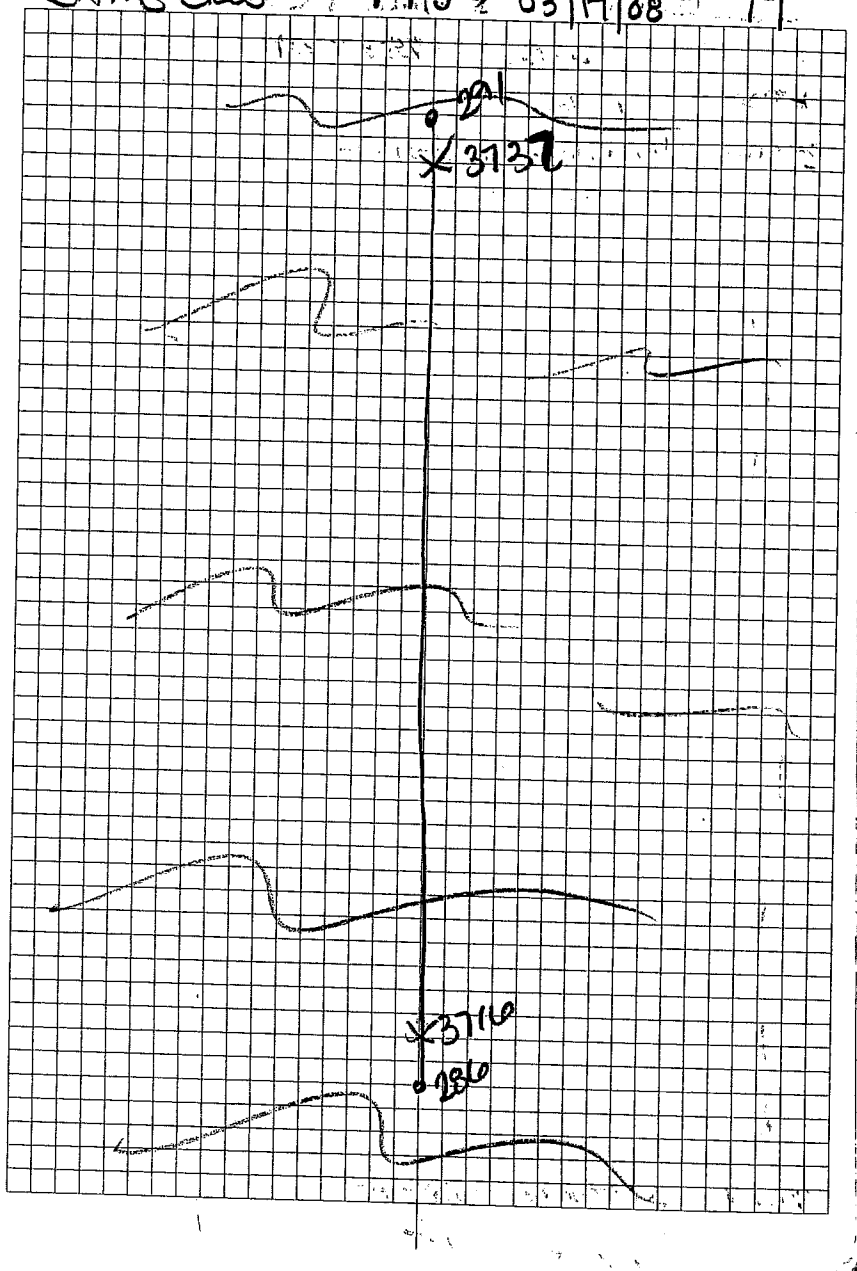
	"
3737	NATURAL BOTTOM

BASE ATC2 - SM01

SAME CREW 1132 03/17/08 74



JOB NUMBER 9714

ATCH. EAST PASS

PLUMB ISLAND

LINE: 275-284

PT #	Remarks
3738	NATURAL BOTTOM
	"
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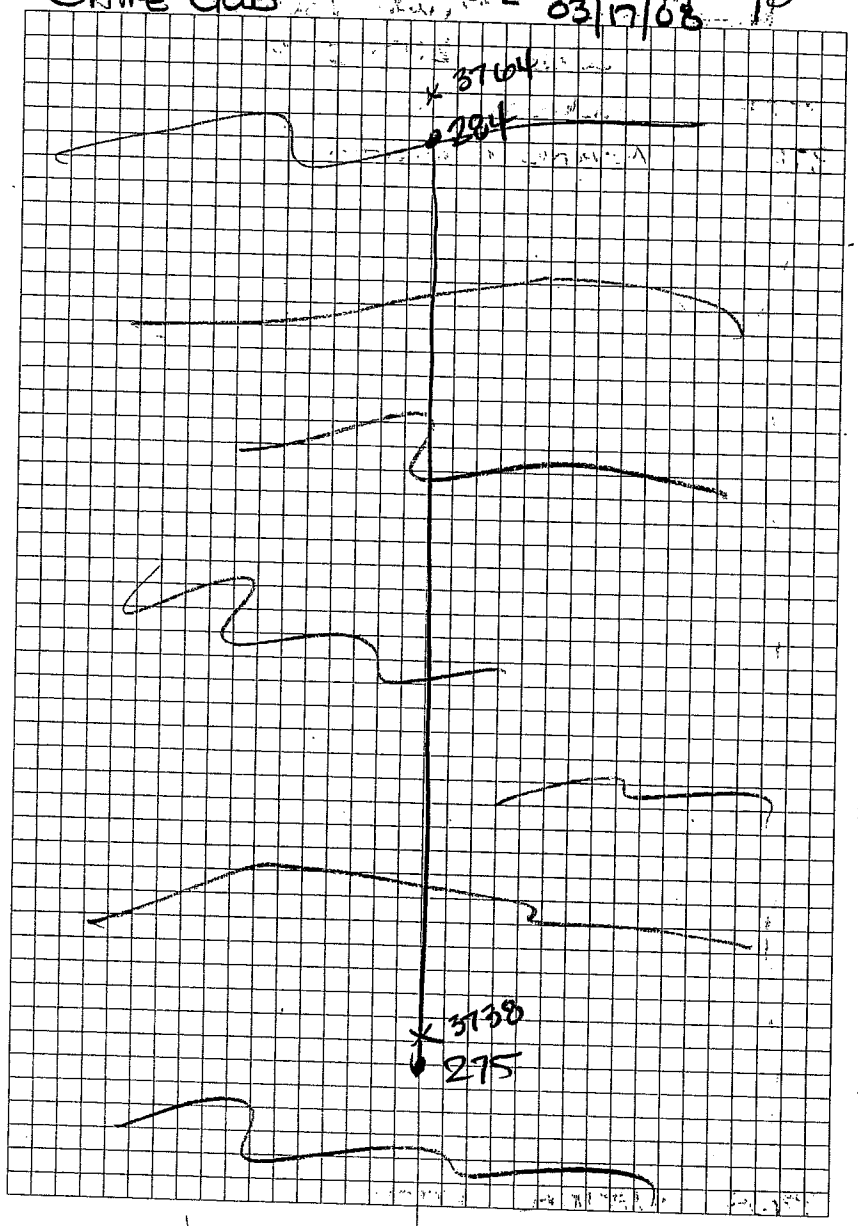
	"
3764	NATURAL BOTTOM

BASE @ ATOZ-SW01

SAME CREW 1132 03/17/08 95



JOB NUMBER 97714

ATCH. EAST PASS
Plum Island

LINE 263 - 277

PT#	
	Reinked
3765	NATURAL BOTTOM
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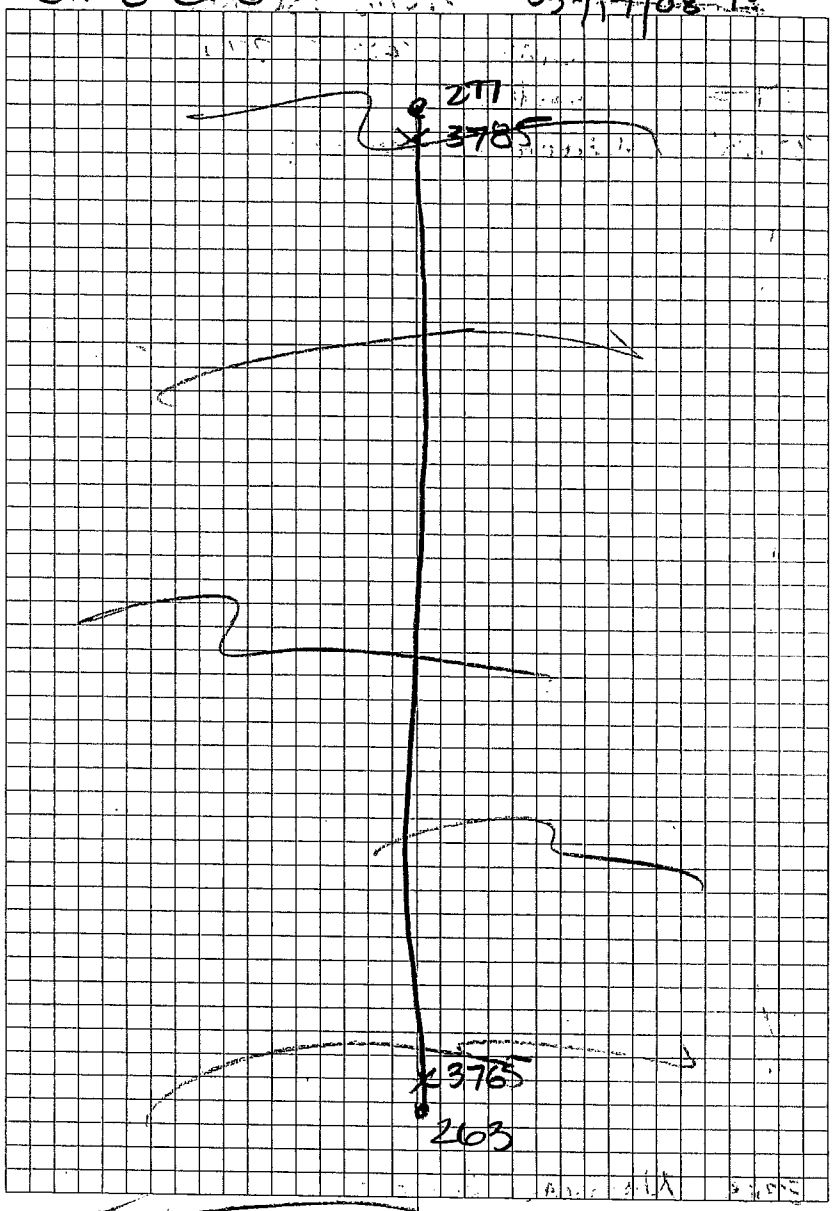
	"
3785	NATURAL BOTTOM

BASED ATOZ-SM01

Same Crew 1132 03/17/08



JOB NUMBER 9714 ATCH. EAST PASS

Plumb ISLAND

Line 282 - 270

PT#	Remarks
3786	NATURAL BOTTOM
	"
	"
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	"
	"
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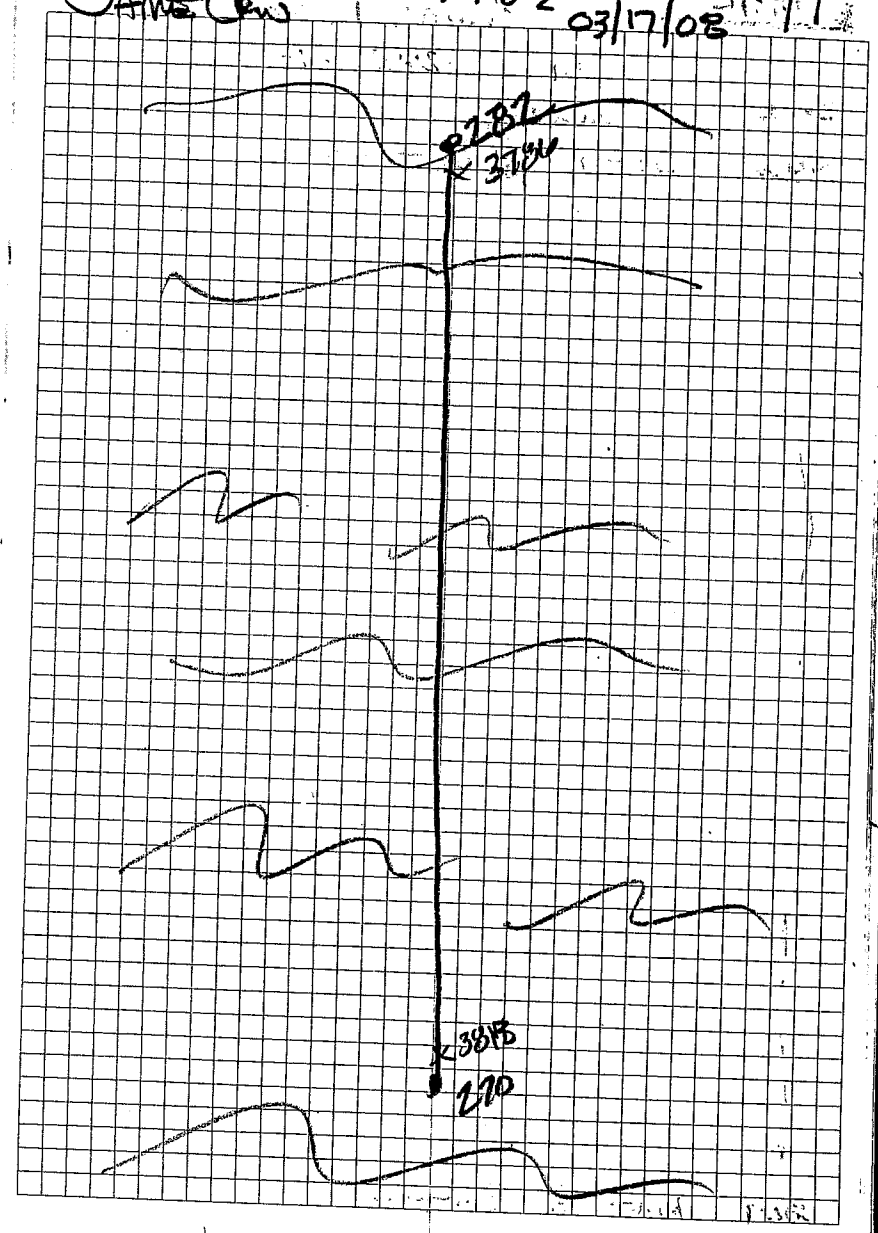
	"
3818	NATURAL BOTTOM

BASE @ ATOL-SM01

SAME CREW 9132 03/17/08 M



JOB NUMBER 97114 ATCH. EAST PASS

Plumb ISLAND

LINE: 265 - 278

PT #	Remarks
3814	NATURAL BOTTOM
	"
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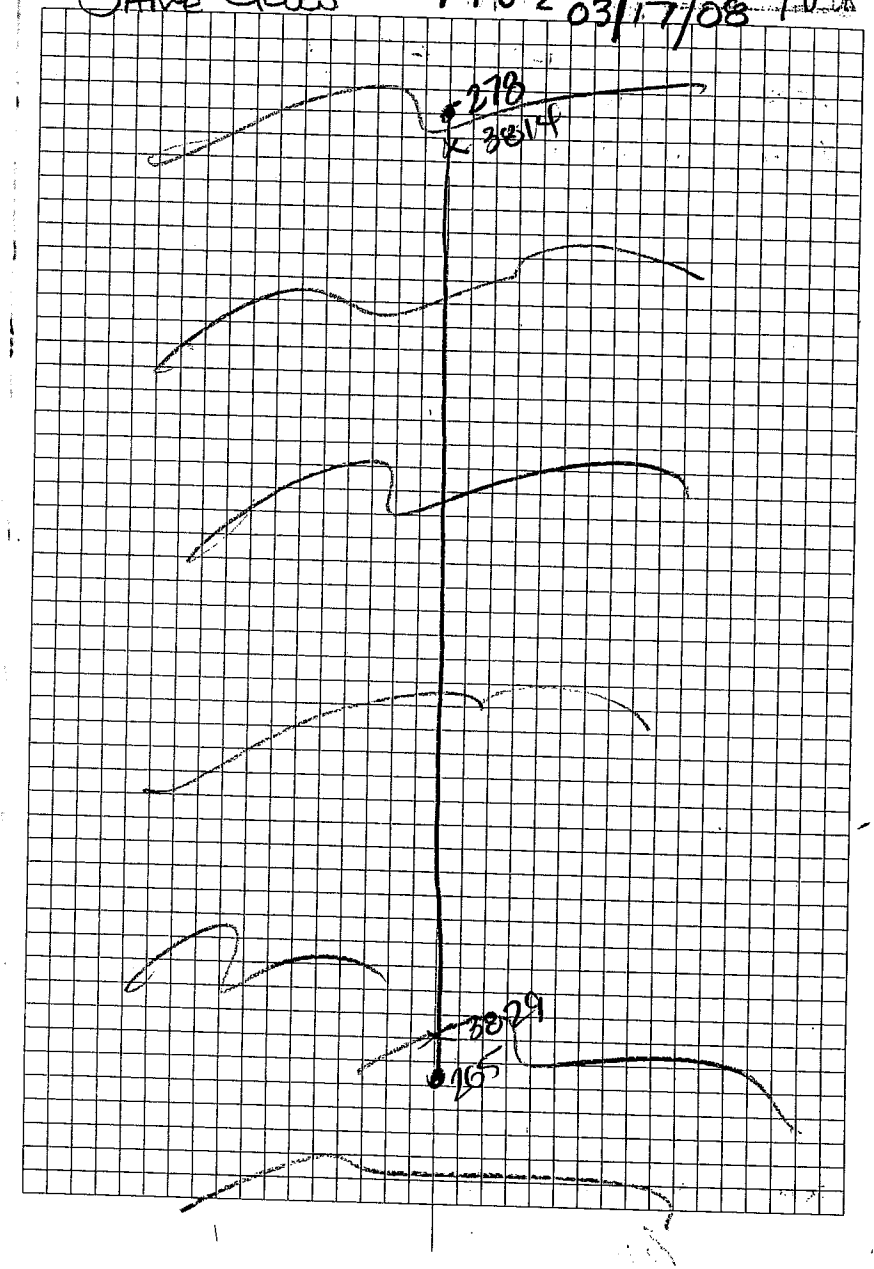
	"
3829	NATURAL BOTTOM

BASE @ AT02-SM01

SAME CREW 1132 03/17/08 78



JOB NUMBER 9714

ATCH, EAST PASS
PLUMB ISLAND
Line 278 - 290

PT#	Remarks
3830	NATURAL BOTTOM
	"
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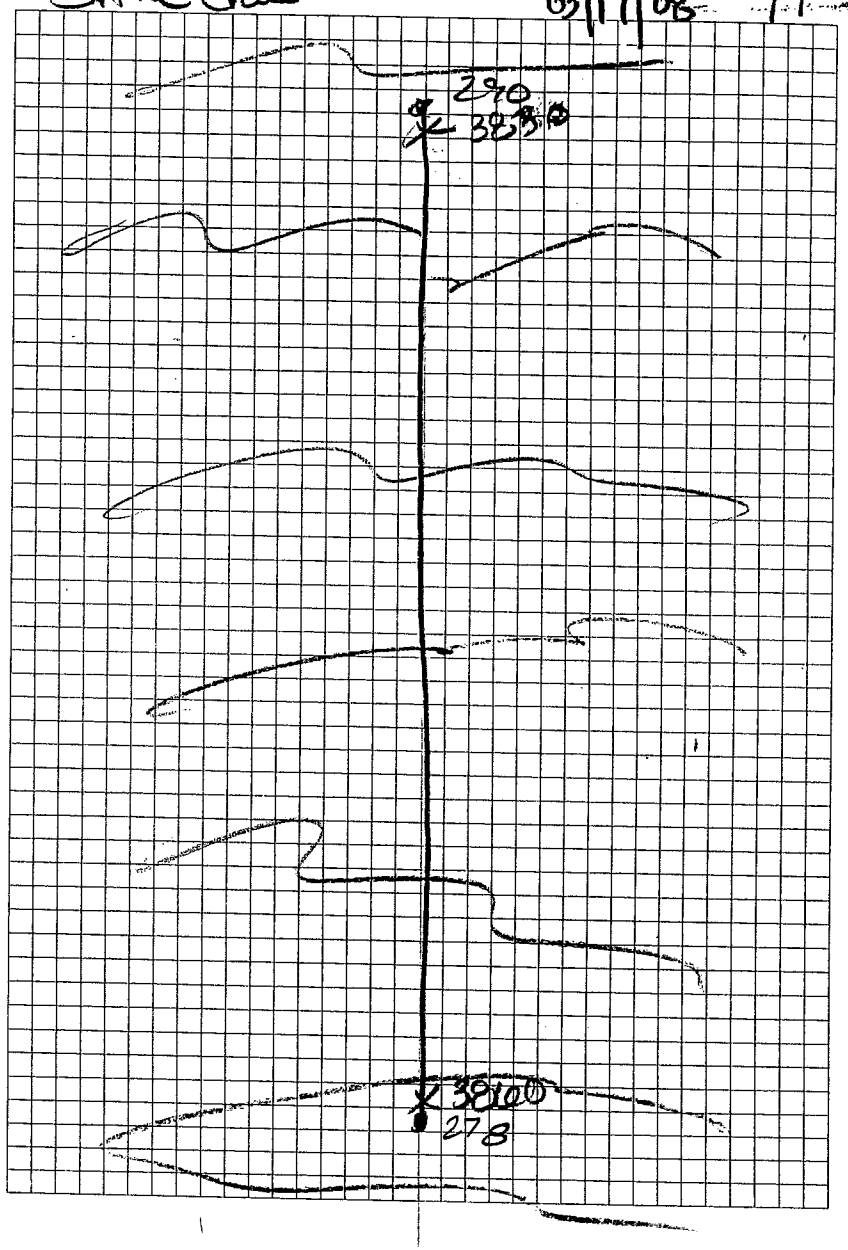
3860	NATURAL BOTTOM

BASE @ AT02-5M01

Same Crew 9132 03/17/08 79



ATCHAFALAYA EAST PASS

JOB NUMBER 9714 PLUMB ISLAND

LINE: 282 - 296

PT #	Remks
3861	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
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	"
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	"
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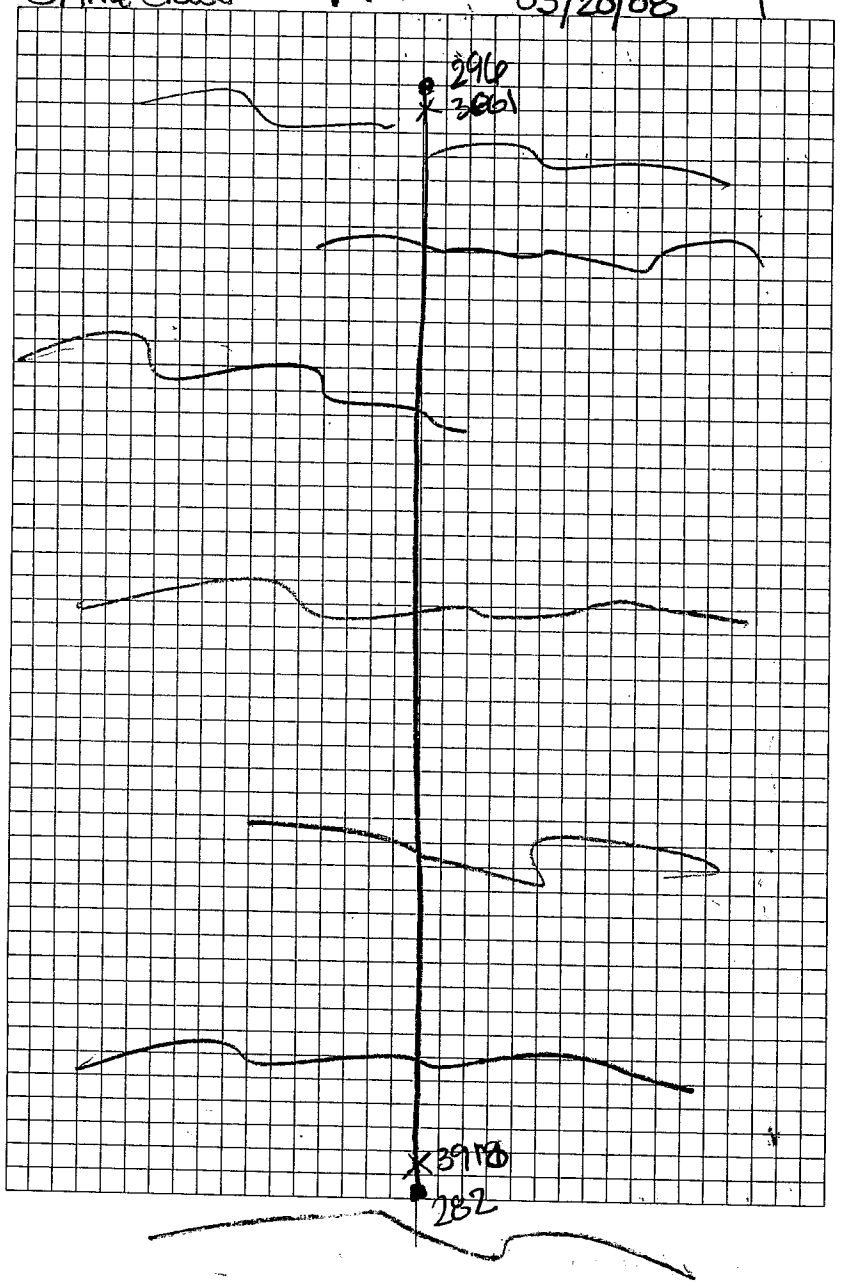
	"
	"
	"
	"
	"
	"
	"
	"
3918	NATURAL BOTTOM
	BASE @ AT 02-SM01

SAME CREW 1148 03/20/08



ATCH: EAST PASS JOB NUMBER 9714 Plumb ISLAND

LINE 243 - 254

P7 ~~#~~ Rmks

3919 NATURAL BOTTOM

"

"

"

JOB NUMBER
9714

ATCH. EAST PASS PLUM ISLAND
LINE 233 – 250

PT #	RMKS
3946	NATURAL BOTTOM
3947	" "
3948	" "
	"
	"

ATCH. EAST PASS

JOB NUMBER 8

Plumb ISLAND

LINE 238-223

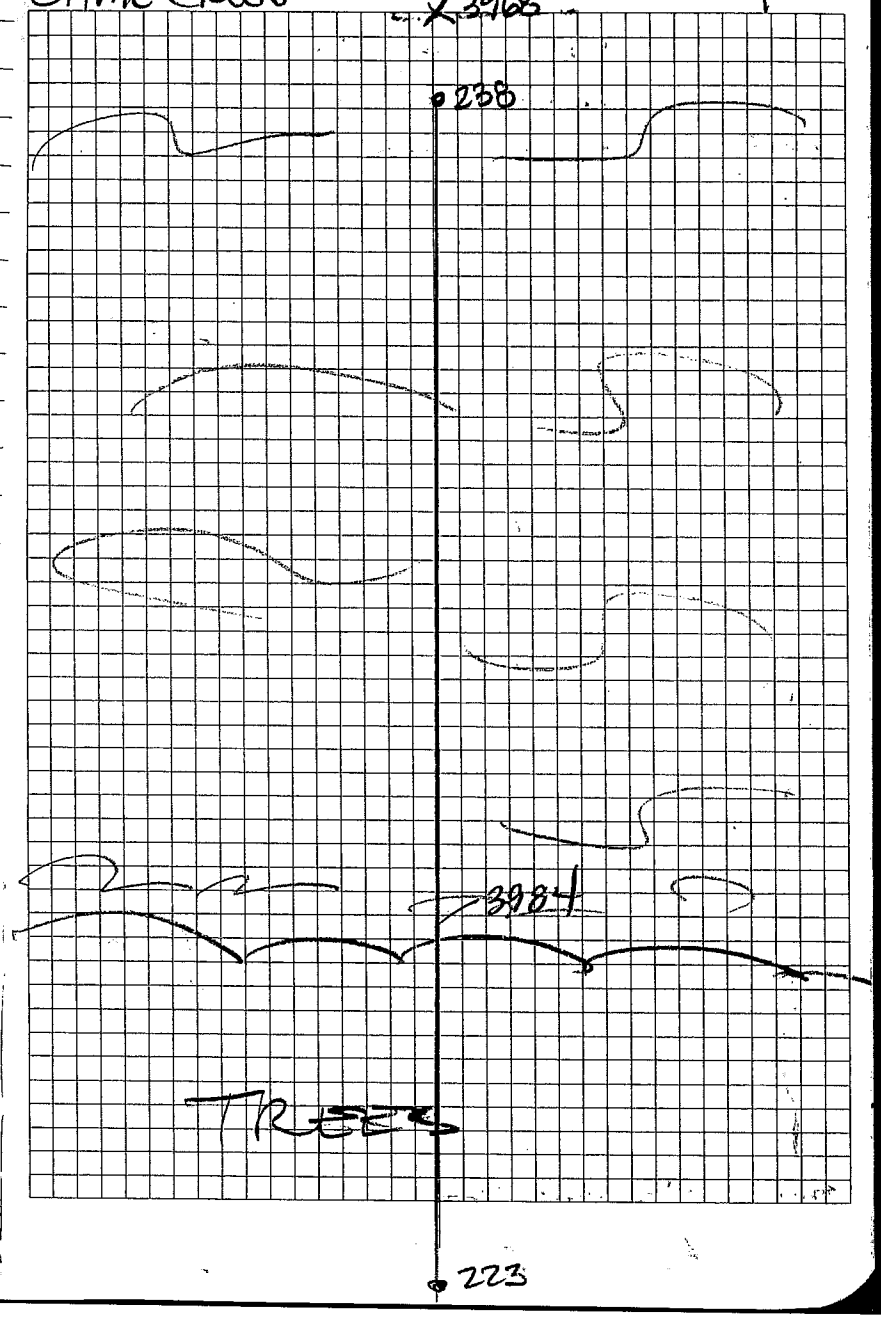
PT#	Rmks
3968	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
3984	NATURAL BOTTOM

BASE @ ATOL - SM01

SAME CREW

1148 03/20/08

4



JOB NUMBER
9714

ATCH. EAST PASS. PLUMBO ISLAND
LINE 217 -247

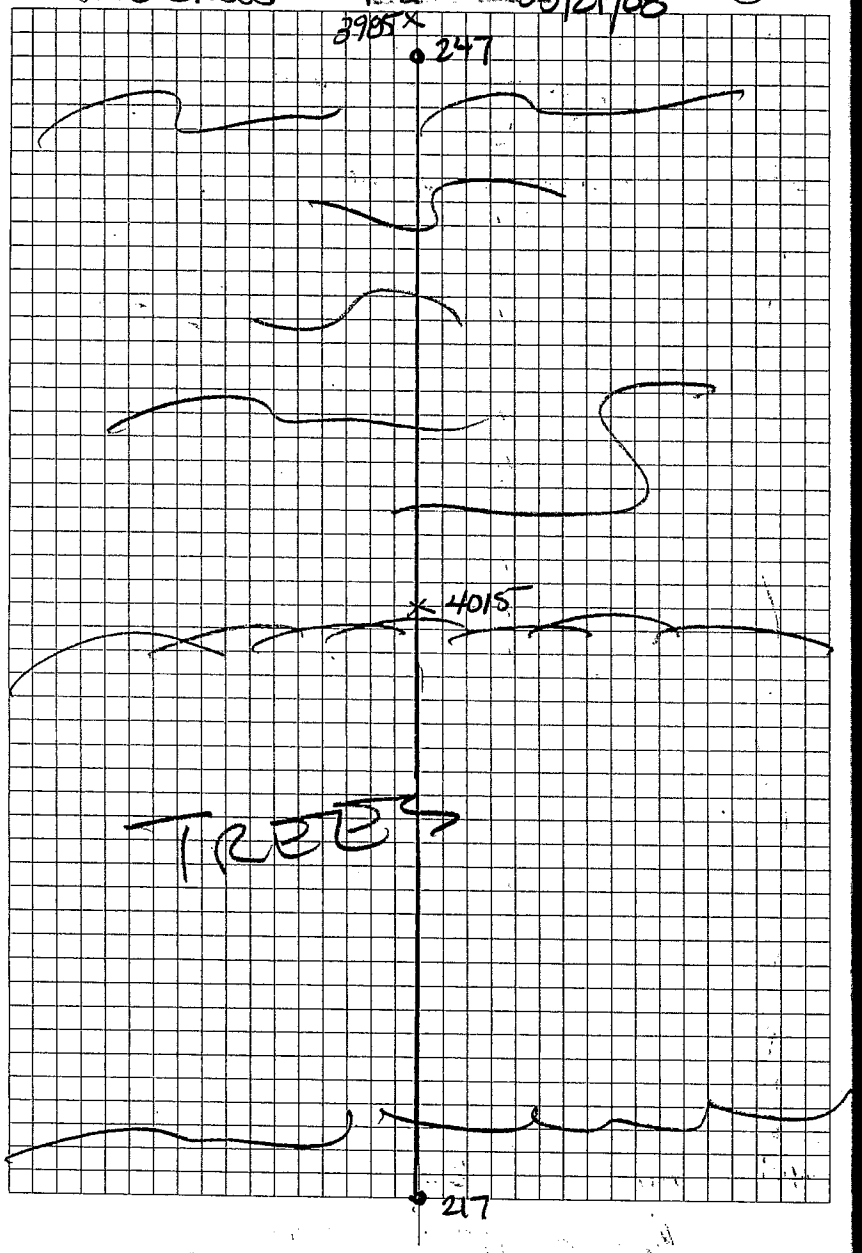
PT#	Rmks
3985	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
4015	NATURAL BOTTOM

BASE @ ATOZ - SM01

SAME CREW

JOB NUMBER
1148 03/21/08

5



JOB NUMBER
9714

ACTH. EAST PASS PLUM ISLAND
LINE
PT # RMKS 215-234
4016 NATURAL BOTTOM
"
"
"

JOB NUMBER 8
9714

ATCH. EAST PASS Plumb Island

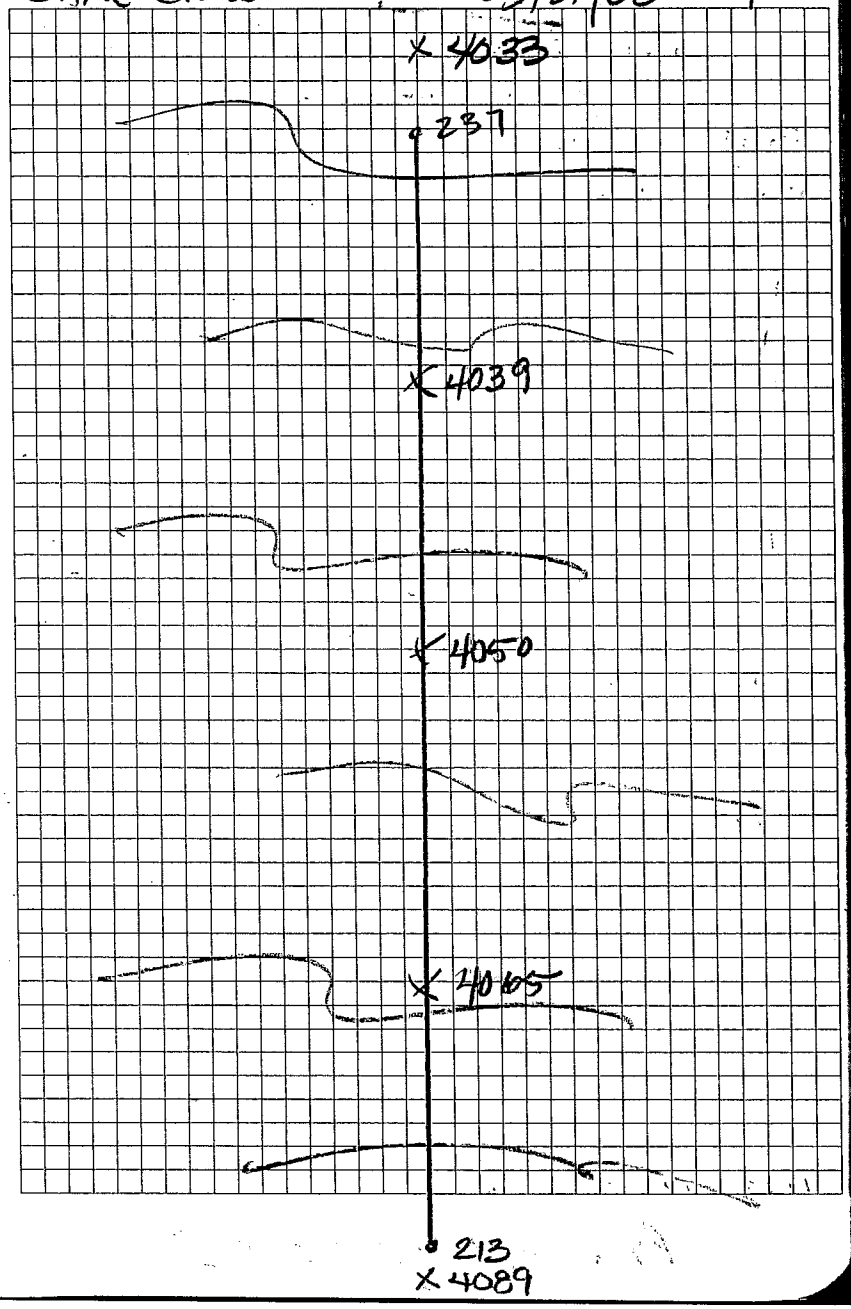
LINE 213 - 237

DT#	Rmks
4033	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
4089	NATURAL BOTTOM

BASE @ AT02-SM01

SAME CREW 1148 BERMUDA 03/21/08

7



JOB NUMBER: 97/4

ATCH. EAST PASS Plumb ISLAND

LINE 209 - 241

Pt #	Remarks
4090	Natural Bottom
	"
	"
	"

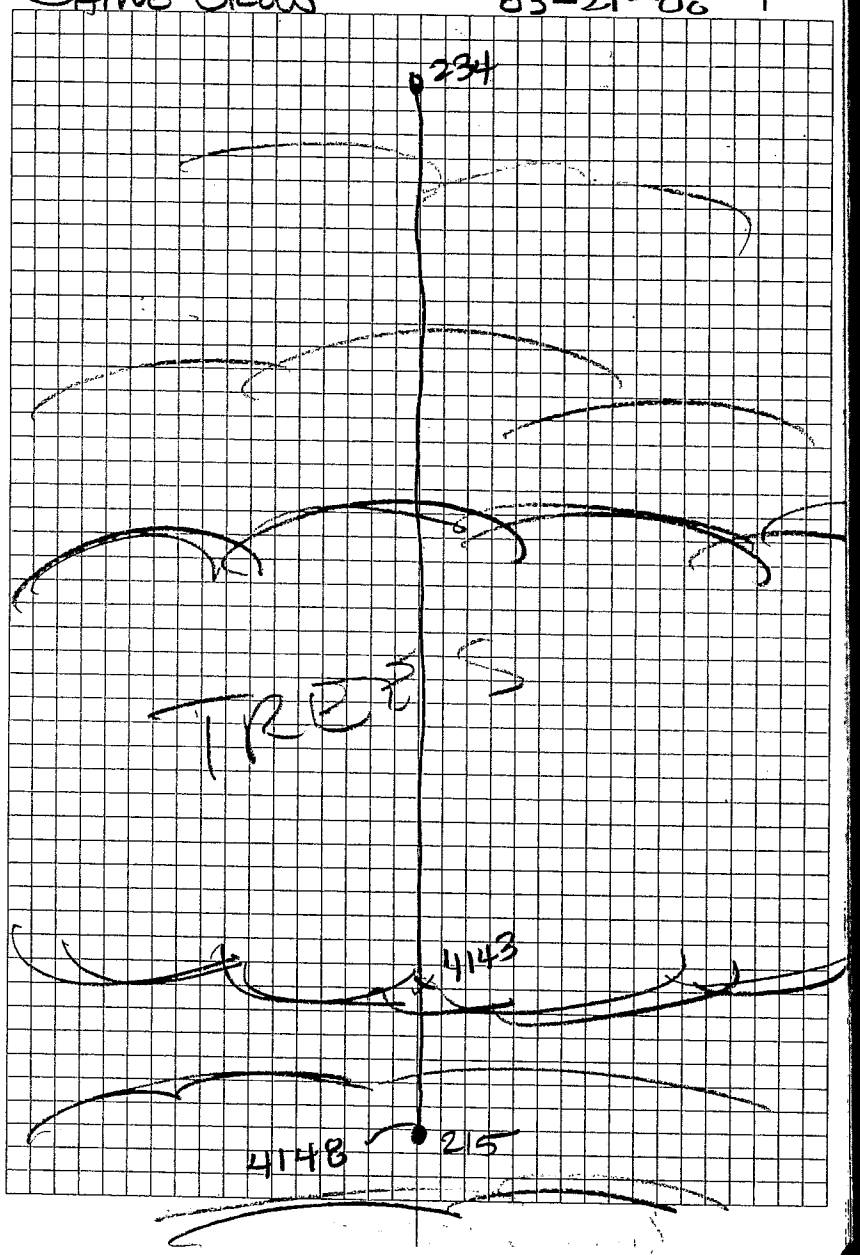
JOB NUMBER
9714

Plumb Island
Line 215-234

PT #	Rmks
4143	Natural Bottom
44	"
45	"
46	"
47	"
48	"

Base @ ATOZ-Sh01

Same Crew 1148 03-21-08 9



JOB NUMBER
9714

Plumb Island

PT #	Remarks
4149	NATURAL BOTTOM
50	
51	
52	
53	
54	
4155	NATURAL BOTTOM

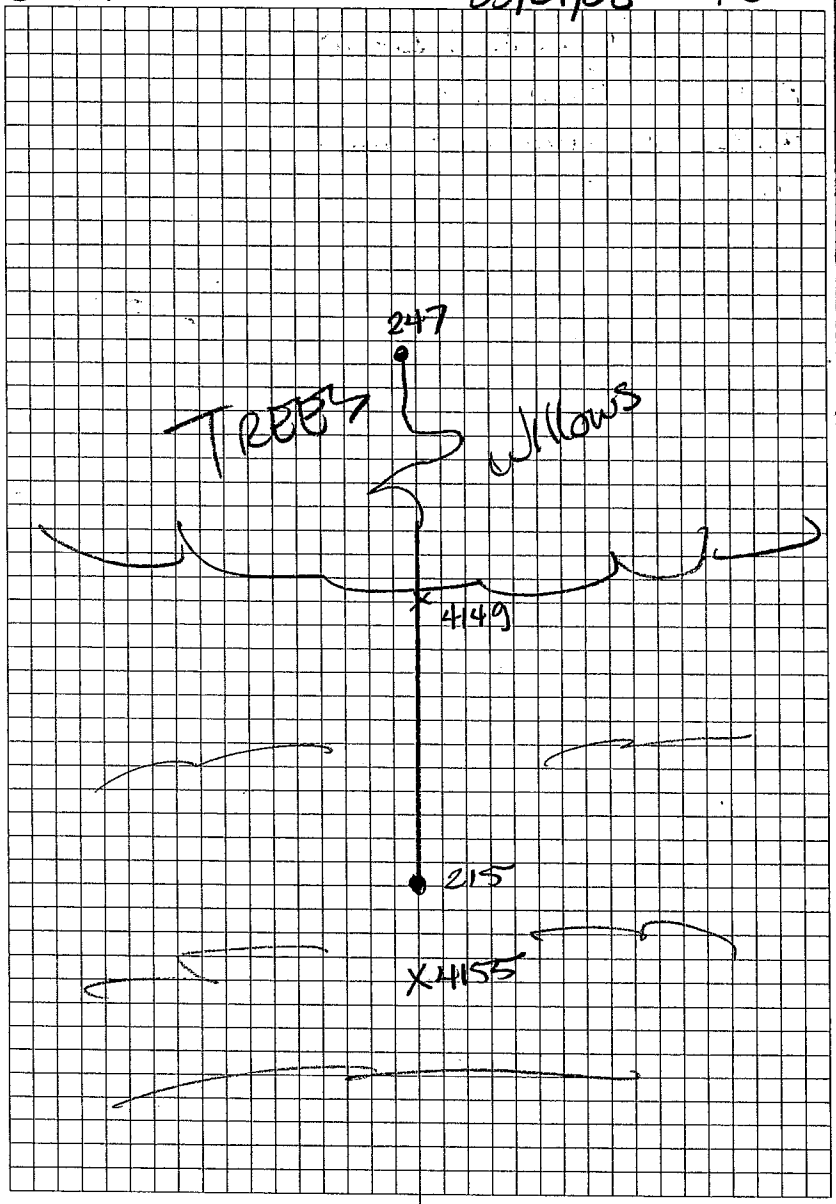
BASE @ ATOZ SM 01

S.C.

1148

03/21/08

10



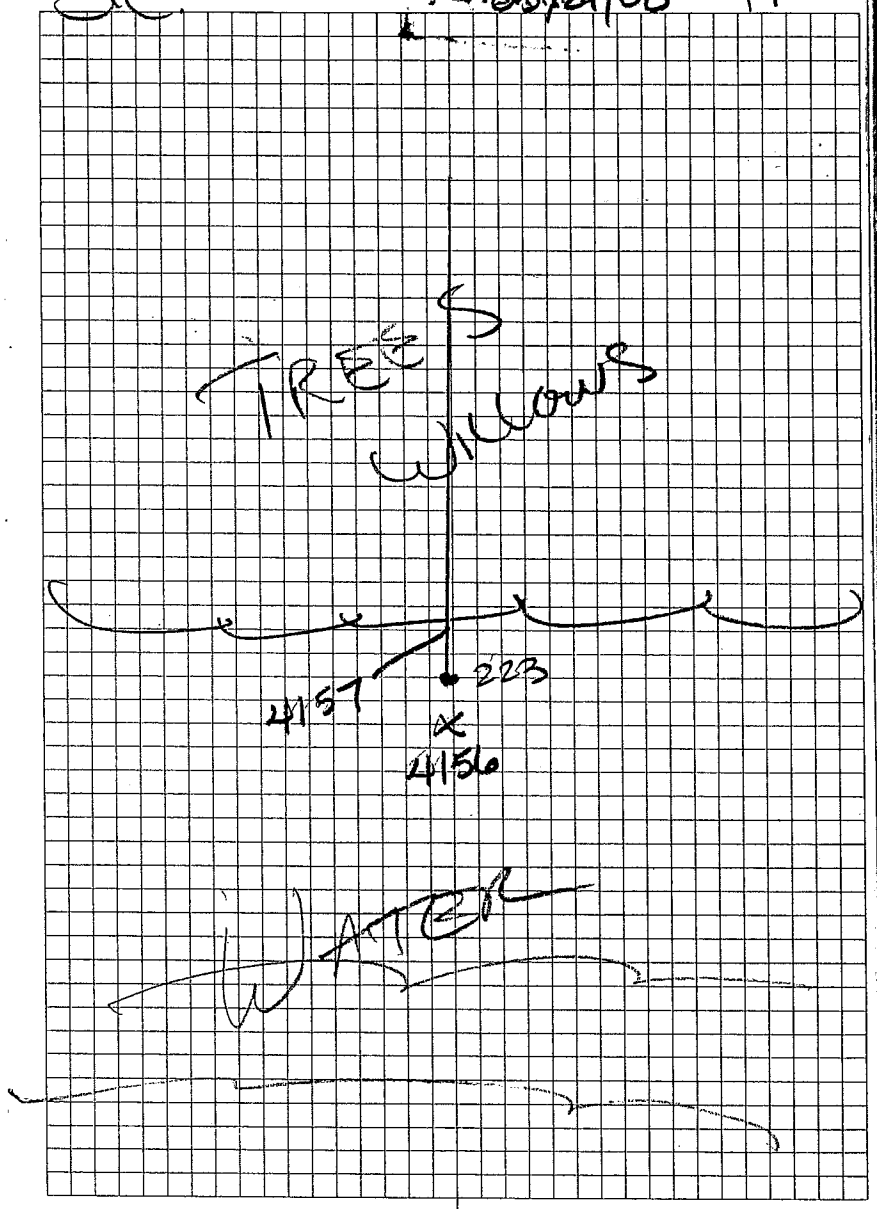
JOB NUMBER
9714

Plumb ISLAND LINE 223 -
Ranks

PT #
4156 NATURAL BOTTOM
4157 N. BOTTOM

BASE & ATOR - SHOT

SC 1148 RESEMBLE 3/21/08 11



JOB NUMBER
9714

Big MAIN ISLAND
LINE 71-63

~~PT #~~	Rocks
4158	NATURAL BOTTOM
	"
	"
	"

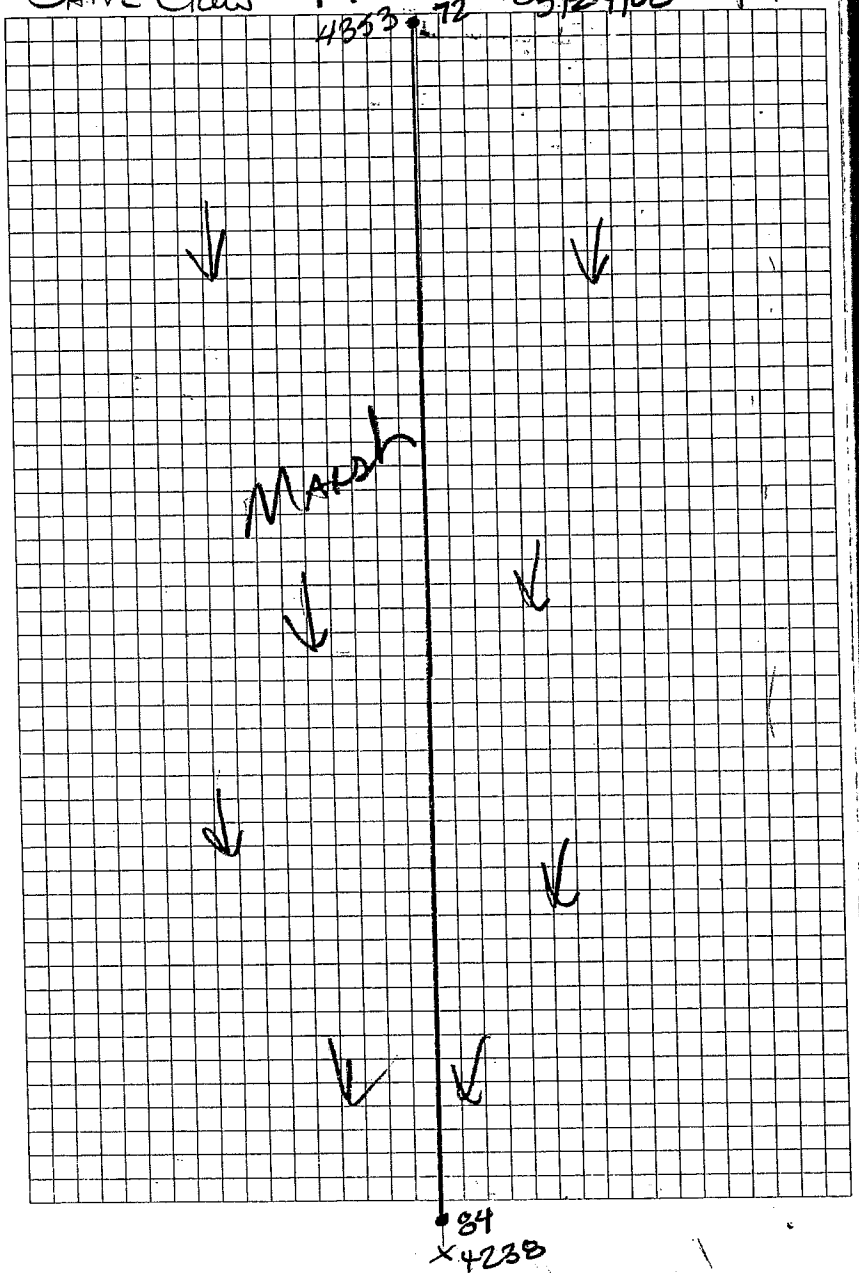
JOB NUMBER
9714

Big Island
Line 84-72

PT#	Rmks
4238	Natural Bottom
4353	Natural Bottom

Base Gator-SM01

Same Crew 1148 03/24/08 14



JOB NUMBER
9714

Big Island
LINE 95 – 80

Pt #	Rmks
4354	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
	"
	"
	"
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	"
	"
	"
	"
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	"
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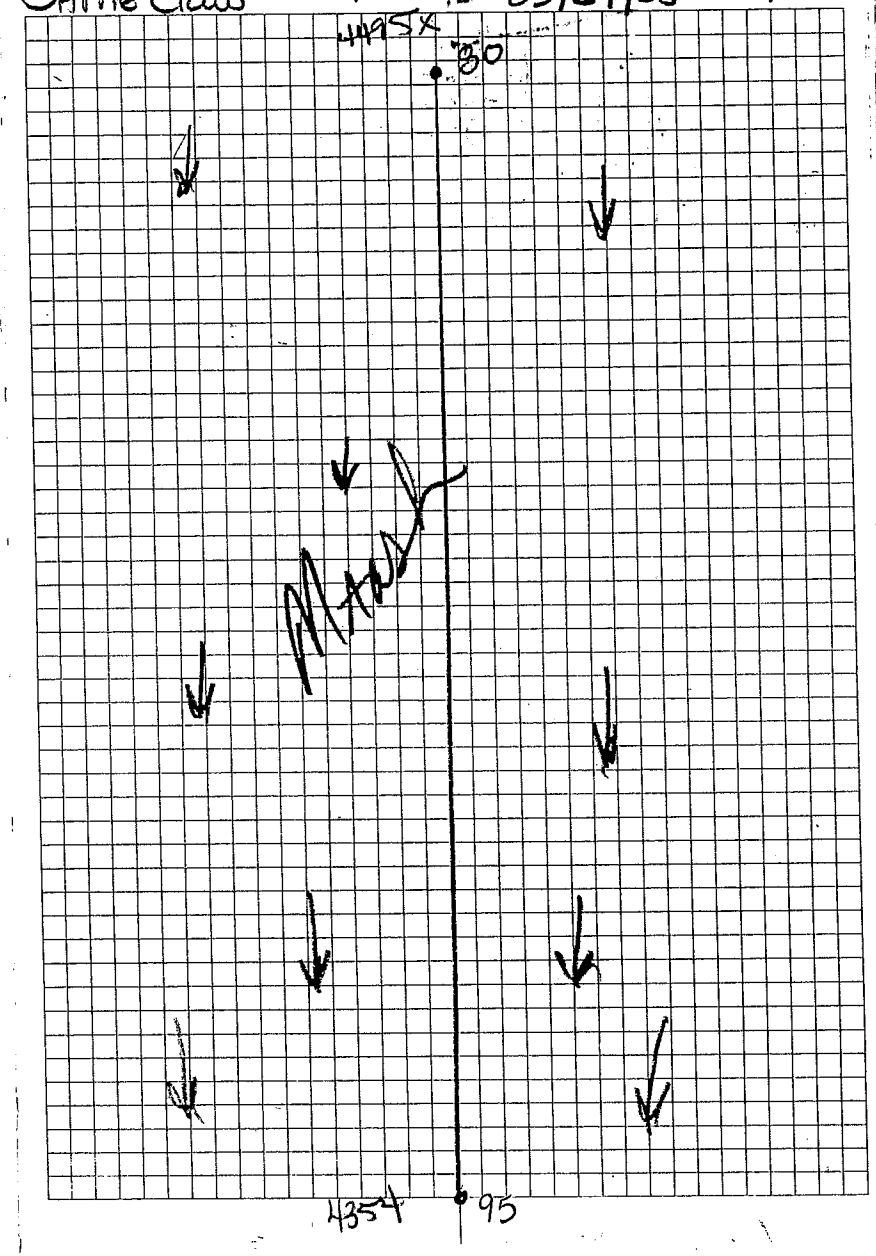
	"
	"
	"
	"
	"
4495	NATURAL BOTTOM

BASE @ ATOF SMOI

SAME CREW 1148 03/24/08 15



JOB NUMBER 9714

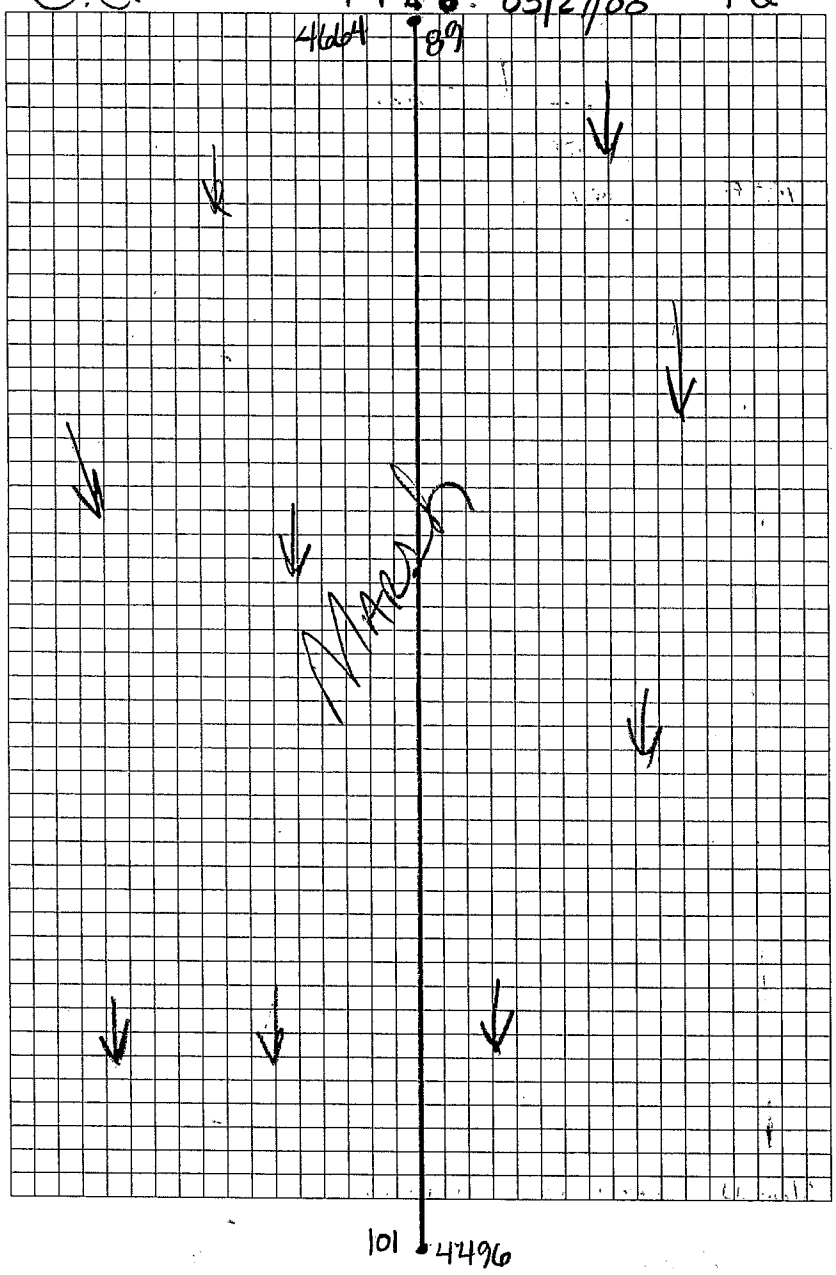
Big Island

Line 101 - 89

PT #	Rmks
4496	Natural Bottom
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
46164	Natural Bottom

Base @ A103 - SMd

S.C. 1148 03/27/08 16



JOB NO.
9714

Big Island
LINE 112-96

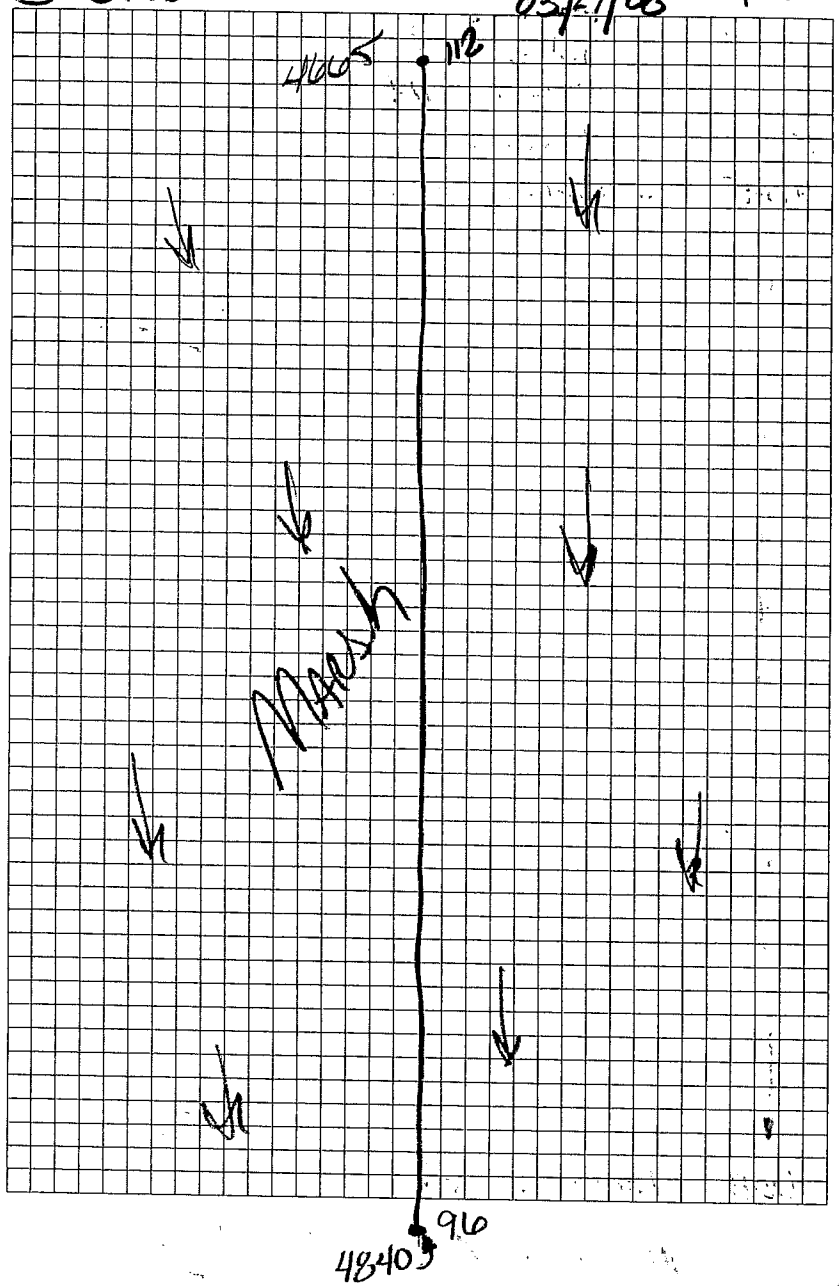
PT#	Rmks
4665	NATURAL BOTTOM
4840	NATURAL BOTTOM

PAGE 6 OF 50

S. CREW

JOB NO.
03/27/08

17



JOB NUMBER
9714

Big Island
LINE 111 – 104

Point #	Remarks
4841	Natural Bottom
	"
	"
	"
	"
	"
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	"
	"
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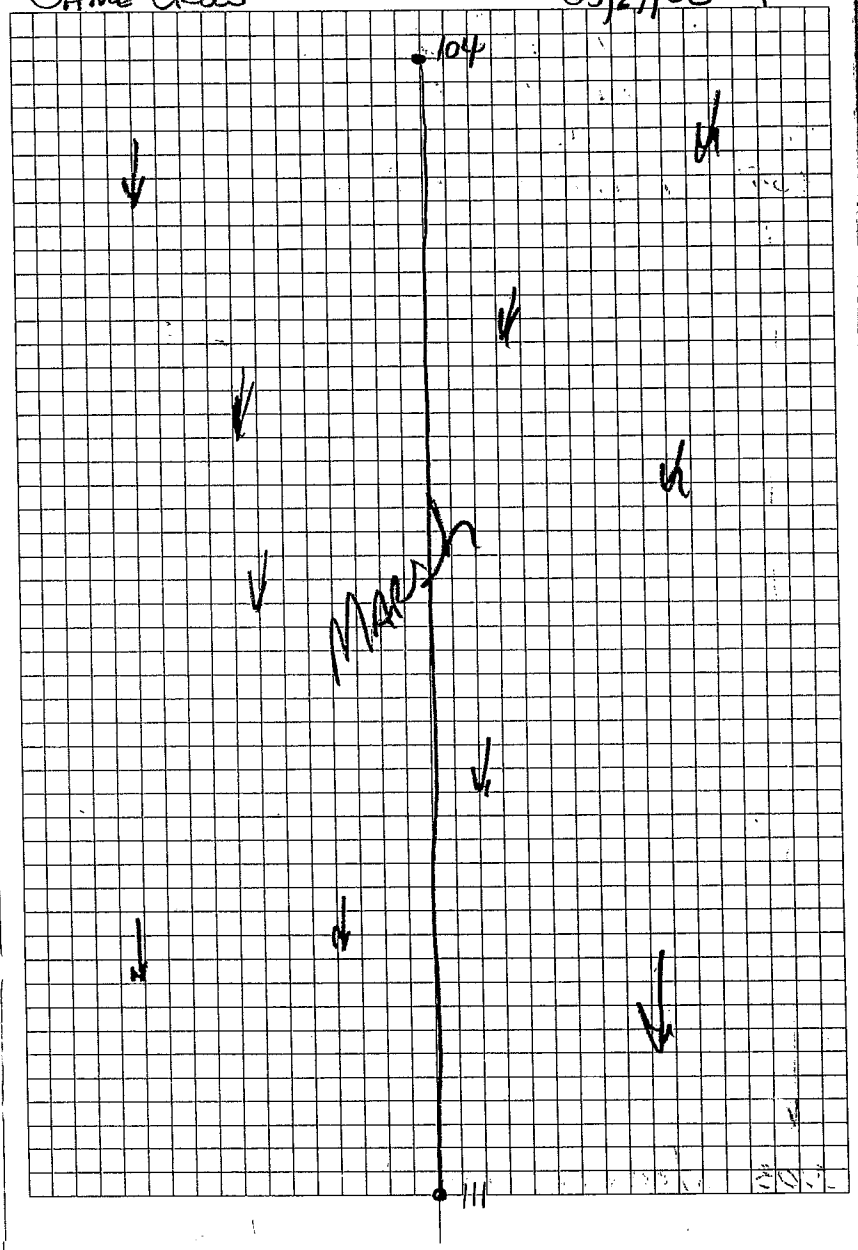
	"
	"
	"
	"
	"
	"
	"
	"
5008	Natural Bottom

MASE @ AE03-SM01

1148

Same Crew 03/27/08 18



JOB NUMBER
9714

Big Island
LINE 115 - 109

Pt #	Rmks
5009	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
	"
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	"
	"
	"
	"
	"
	"
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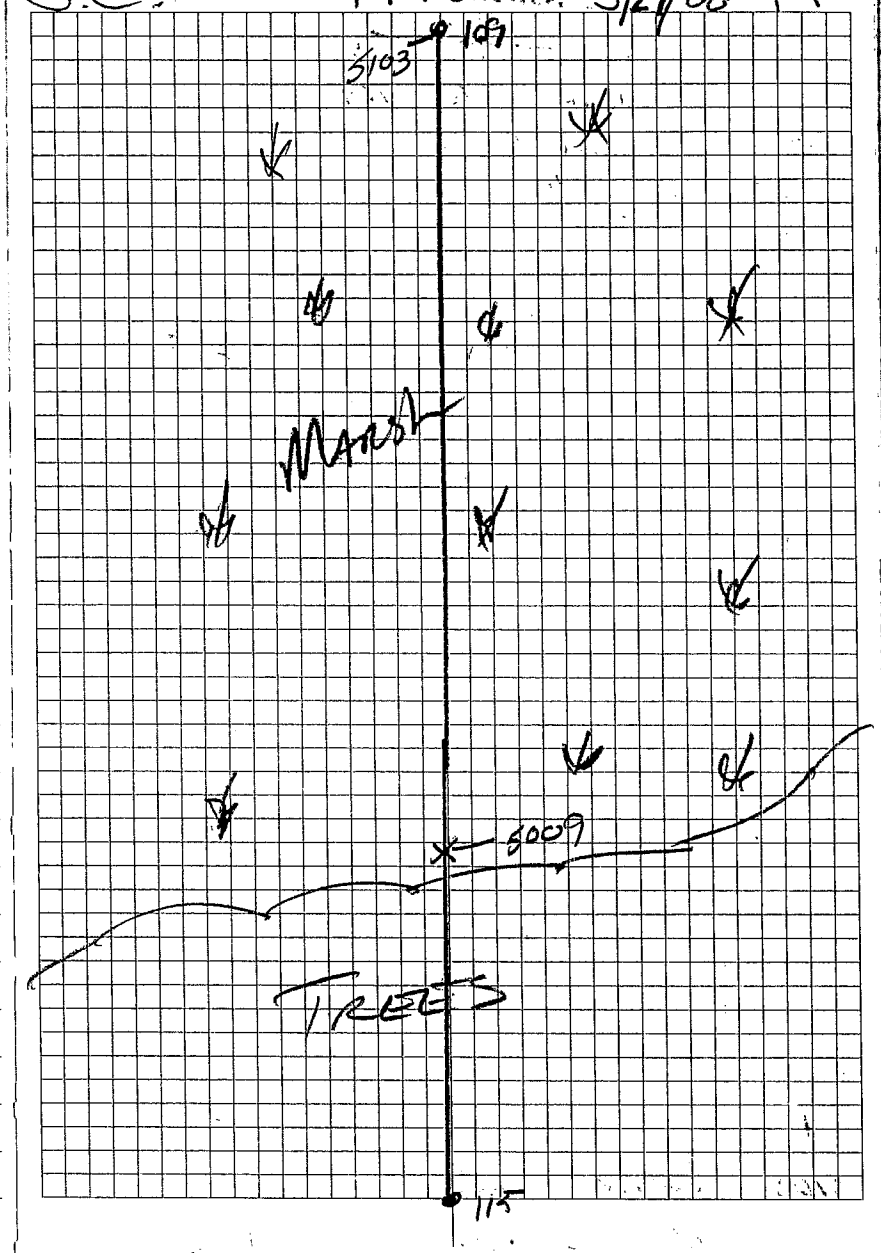
	"
	"
	"
	"
	"
5103	NATURAL BOTTOM

BASE @ AT03-SM01

S.C. 3/27/08 19



ATCHAFALAYA EAST PASS
JOB NUMBER
9714
BIG ISLAND — TOPO SURVEY
LINE 109-115

5009 NATURAL BOTTOM
"
"
"

ATCH EAST PASS

JOB NUMBER 9714

BIG ISLAND

LINE 113 — 119

POINT #	REMARKS
5104	NATURAL GROUND
	"
	"
	"
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	"
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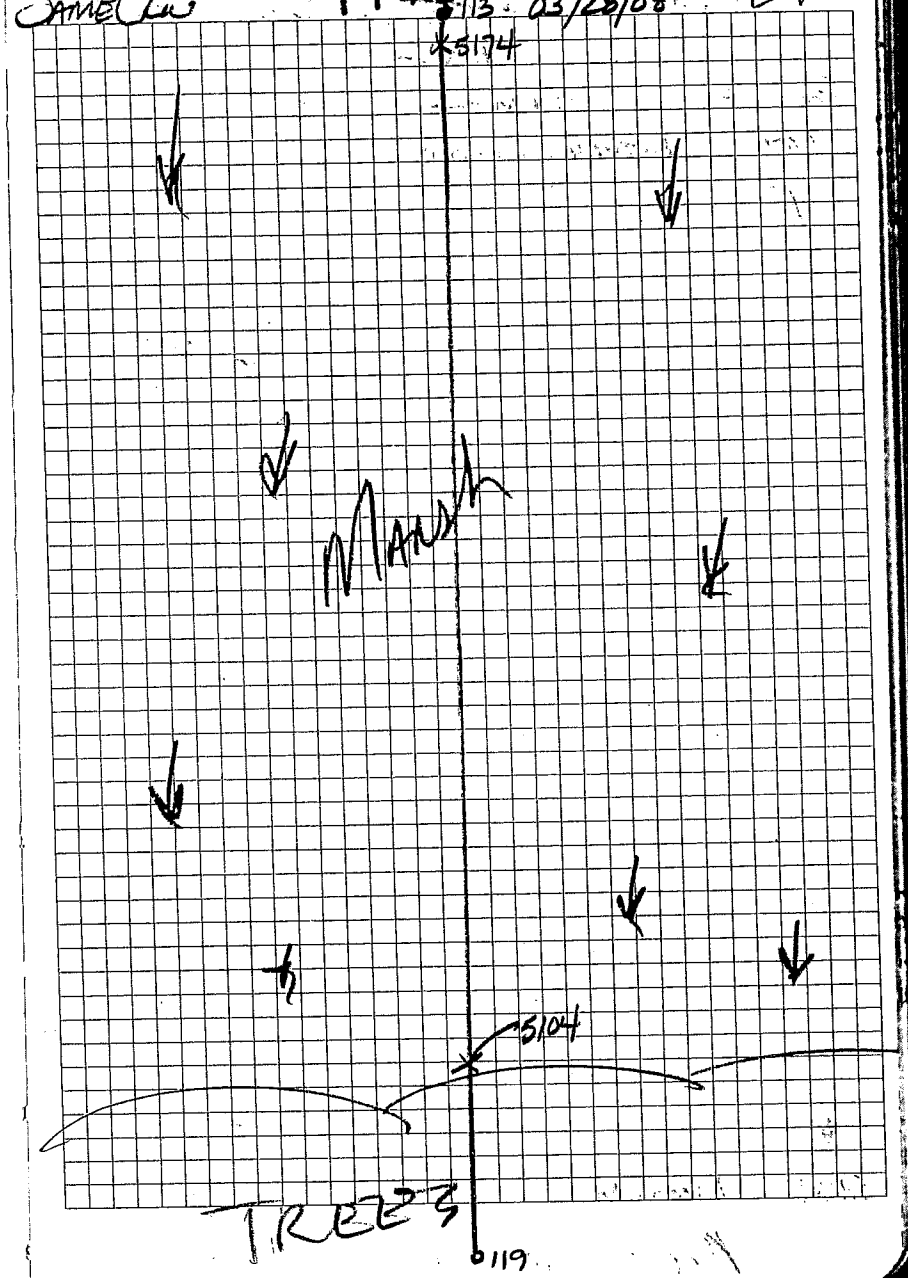
	"
	"
	"
5174	NATURAL GROUND

PAGE ATO2-SM-01

SAME LINE

14-48 113 03/28/08

21



JOB NUMBER

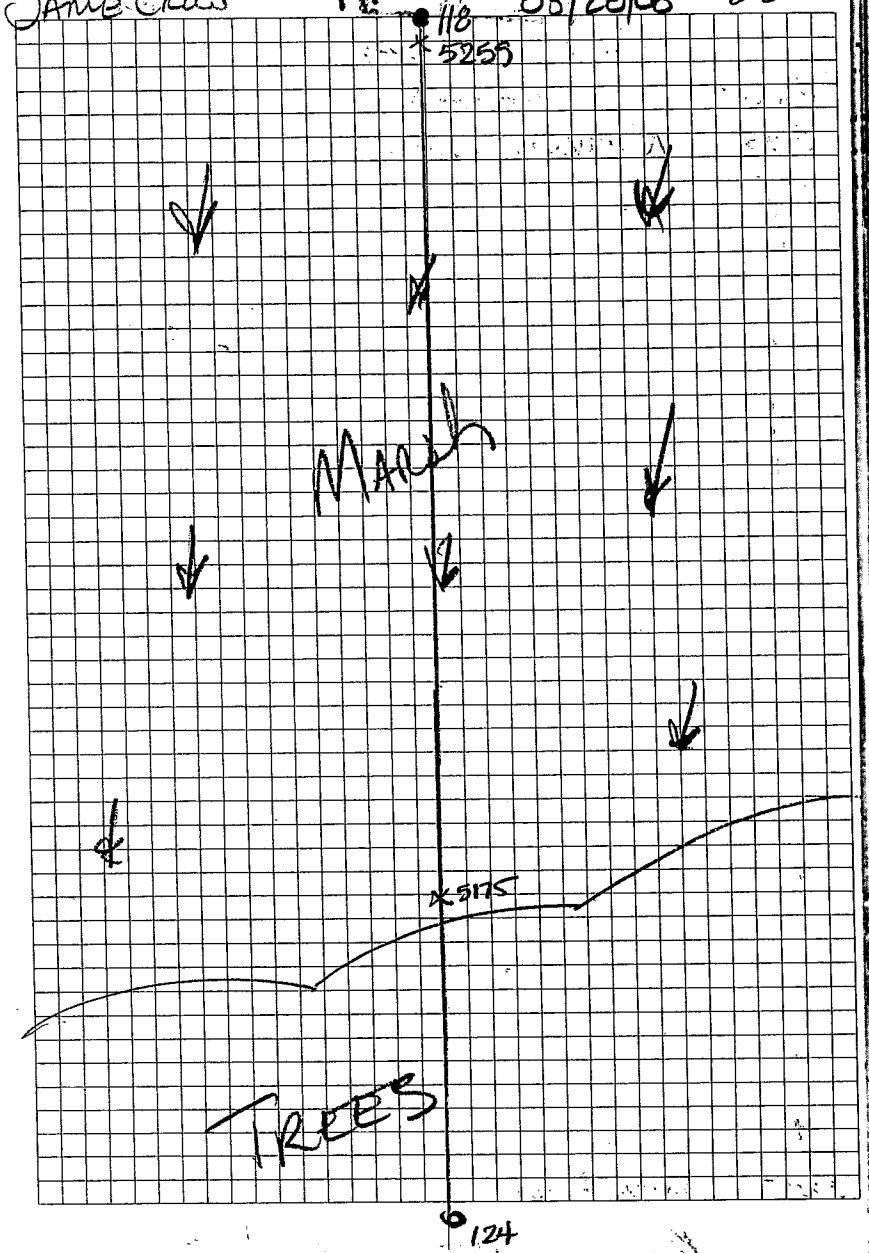
ATCH. EAST PASS 9714 Big ISLAND

LINE 118-124

POINT #	REMARKS
5175	NATURAL BOTTOM
5259	NATURAL BOTTOM

BASE @ AT03-SM01

SAME CREW 1148 03/28/08 22



ATCH EAST
Pass

JOB NUMBER
97144

Pelig Island

LINE 122-131

Point #	Remarks
5260	NATURAL BOTTOM
	"
	"
	"
	"
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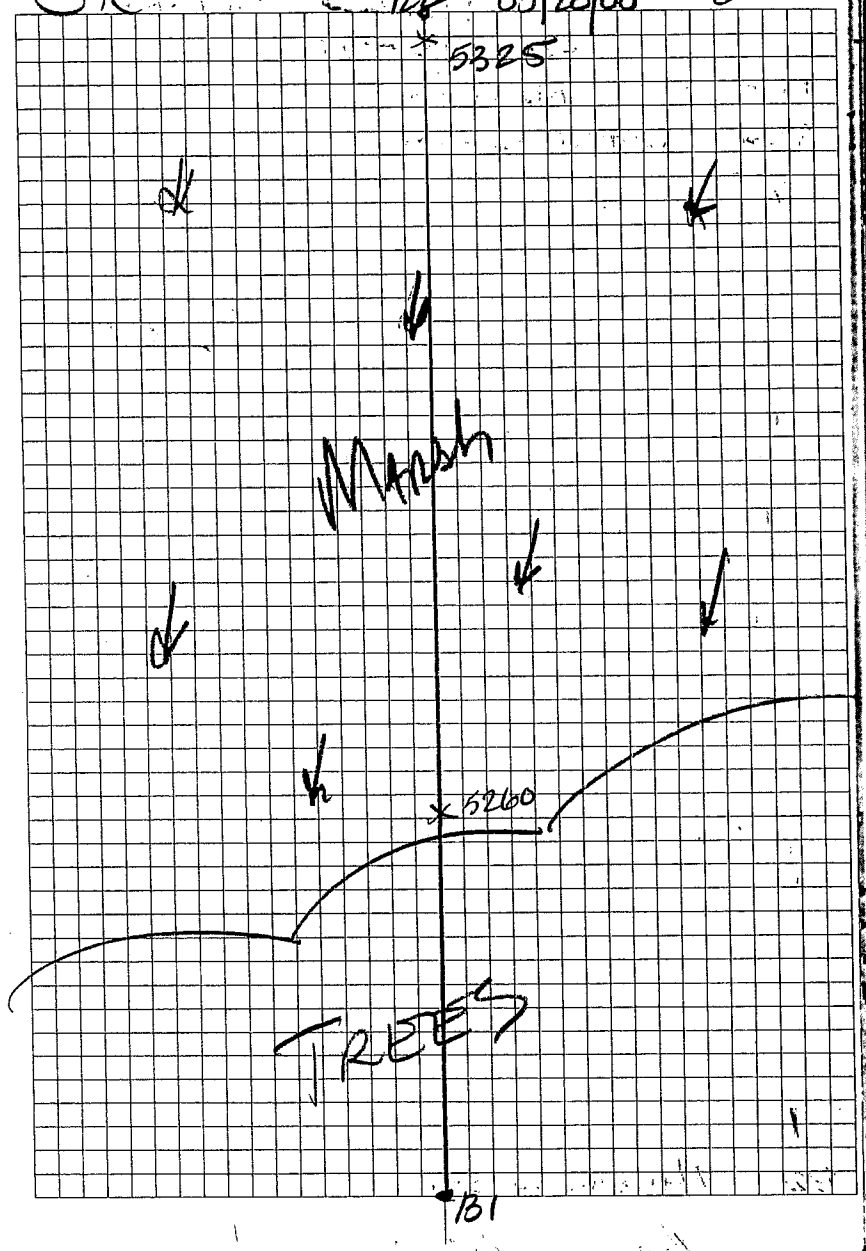
	"
	"
	"
	"
	"
	"
	"
5325	NATURAL BOTTOM

BASE @ AT03-SM01

S.C.

122 03/28/08

23



ATLH EAST PASS

JOB NUMBER 9714 Big Island

LINE 137-130

Pt #	Remarks
5326	Natural Bottom
	"
	"
	"
	"
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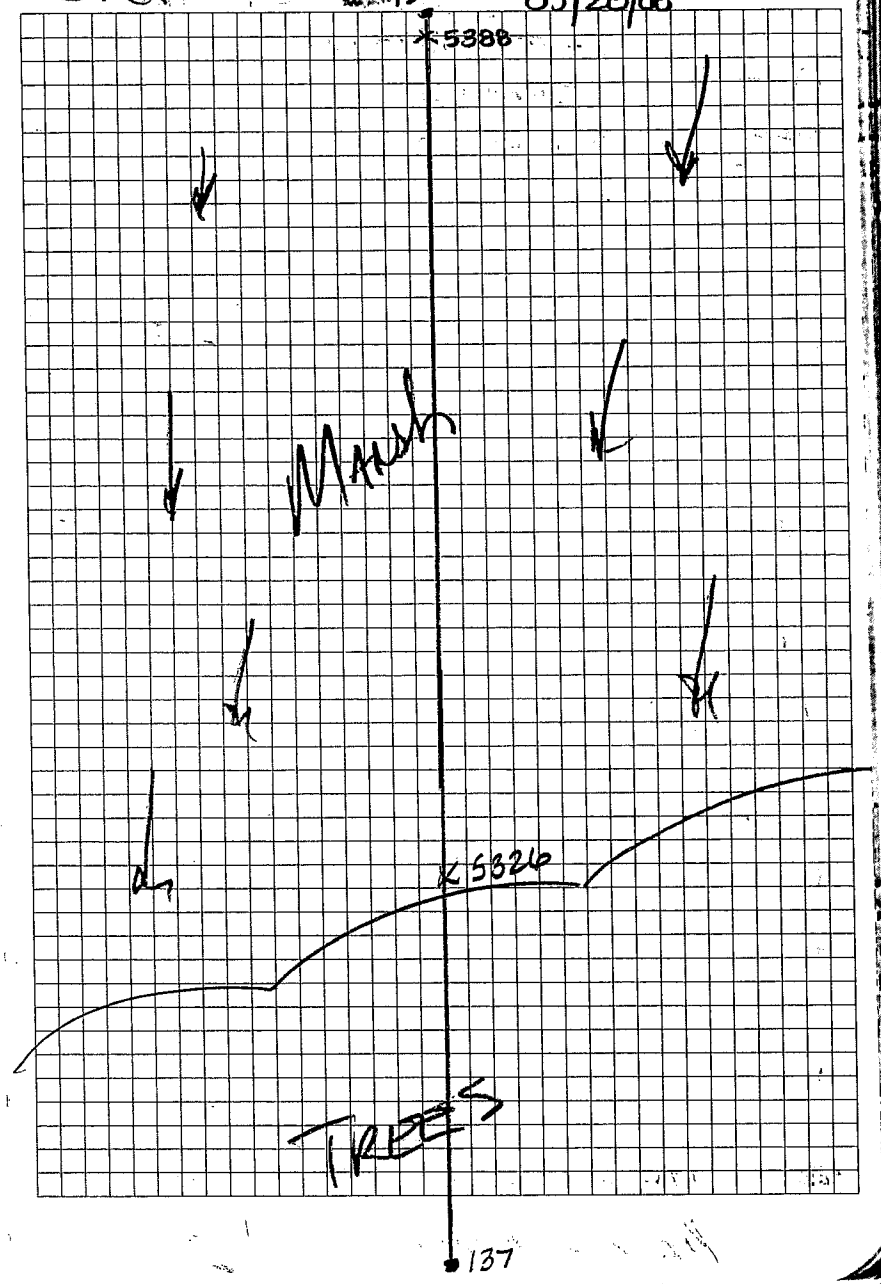
	"
	"
	"
	"
	"
	"
5388	Natural Bottom

BASE @ AT03-SM01

S.C. 1 1 1 130 03/28/08 24



ATCH. EAST PASS

JOB NUMBER 9714

BIG ISLAND

S. CREW

TIME 14:12:8

03/28/08

25

LINE 136 –

P#	REMARKS
5389	NATURAL BOTTOM
	"
	"
	"

ATCH EAST PASS

JOB NUMBER 9714

Big Island

S.C.

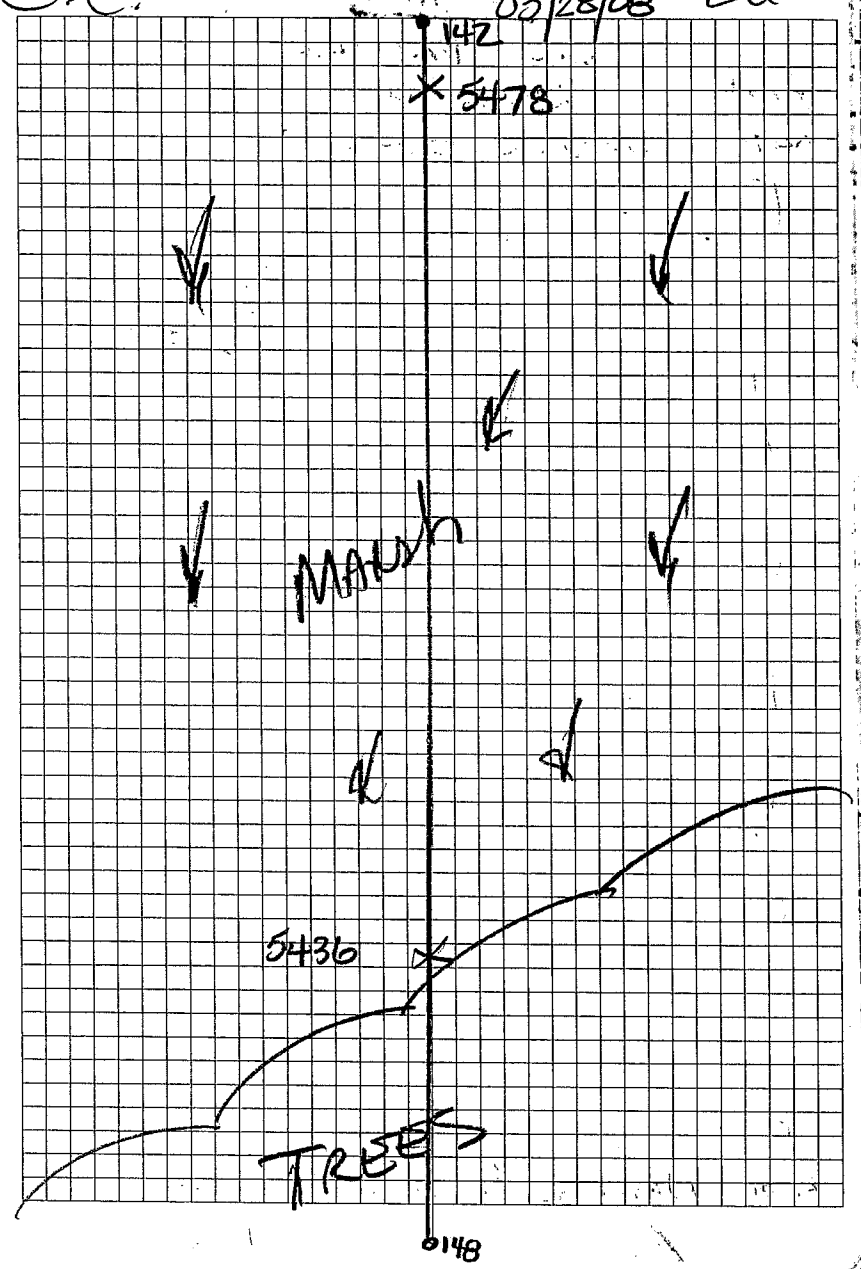
03/28/08

26

LINE 142–148

Pt #	Remarks
5436	Natural Bottom
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
5478	Natural Bottom

BASE @ AT03-SM d



ATCH. EAST JOB NUMBER
PASS 9714 Big Island
LINE 150 - 154

PT#	Remarks
5479	NATURAL BOTTOM
	"
	"
	"

ATCH. EAST JOB NUMBER 9744 Big Island

LINE 157-160

PT#	REMARKS
5529	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
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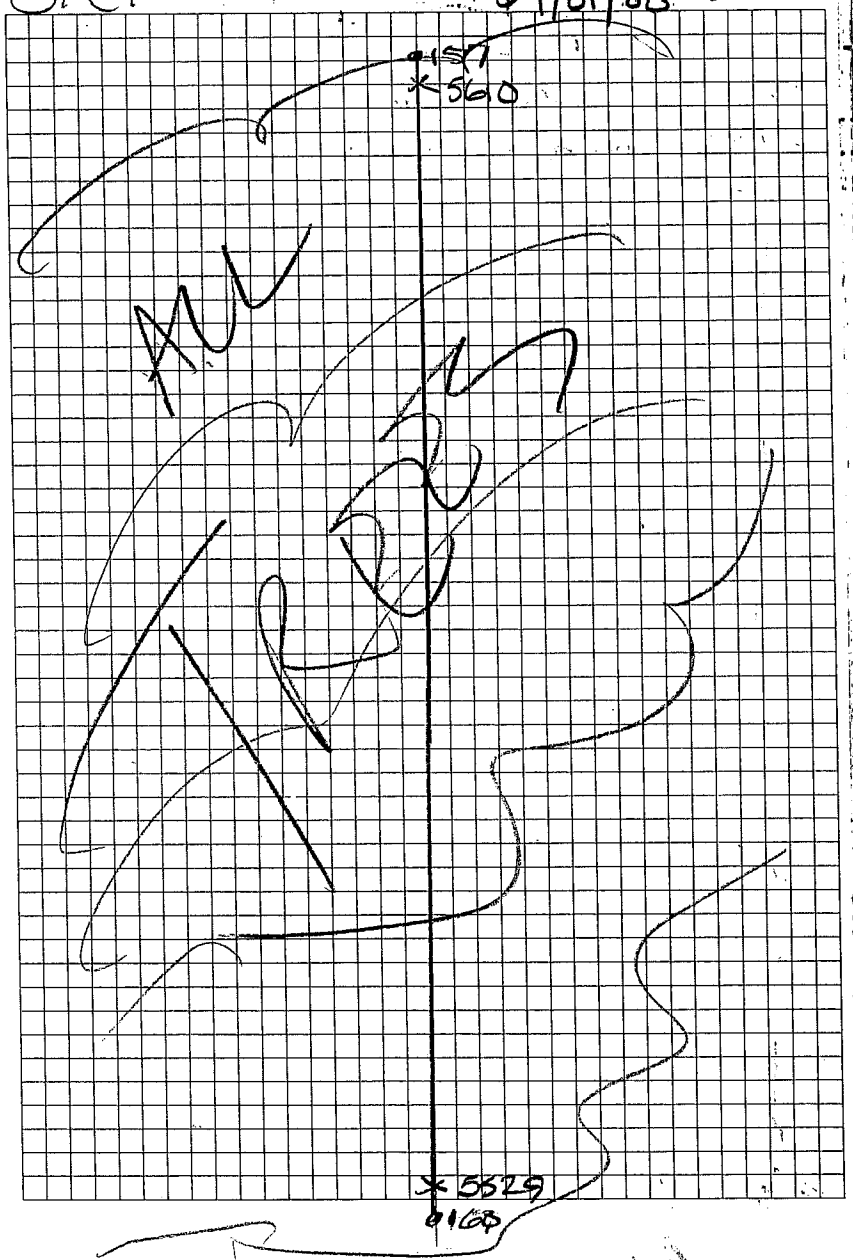
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
5613	NATURAL BOTTOM

PAGE @ A03-SM-01

S.C. MAINMUNA 1148 04/01/08 28



ATLH. EAST PASS

JOB NUMBER

BIG ISLAND

S.C.

1148

04/02/08

29

Point #	Line Remarks
5614	Natural Ground
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
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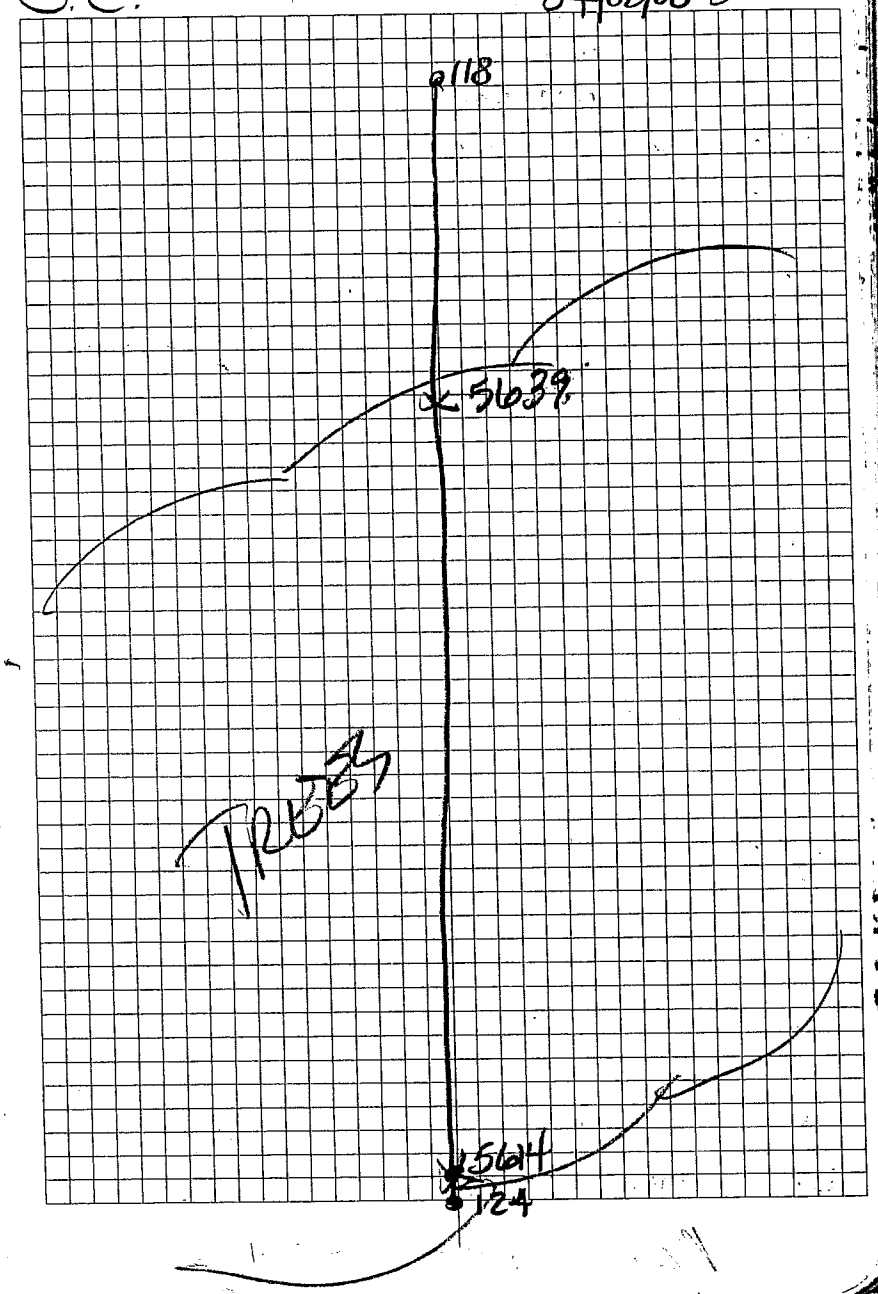
	"
	"
	"
	"
5639	Natural Ground

BASE @ AT03-SM01



ATCH. EAST PASS

JOB NUMBER

Big ISLAND

LINE 119-113

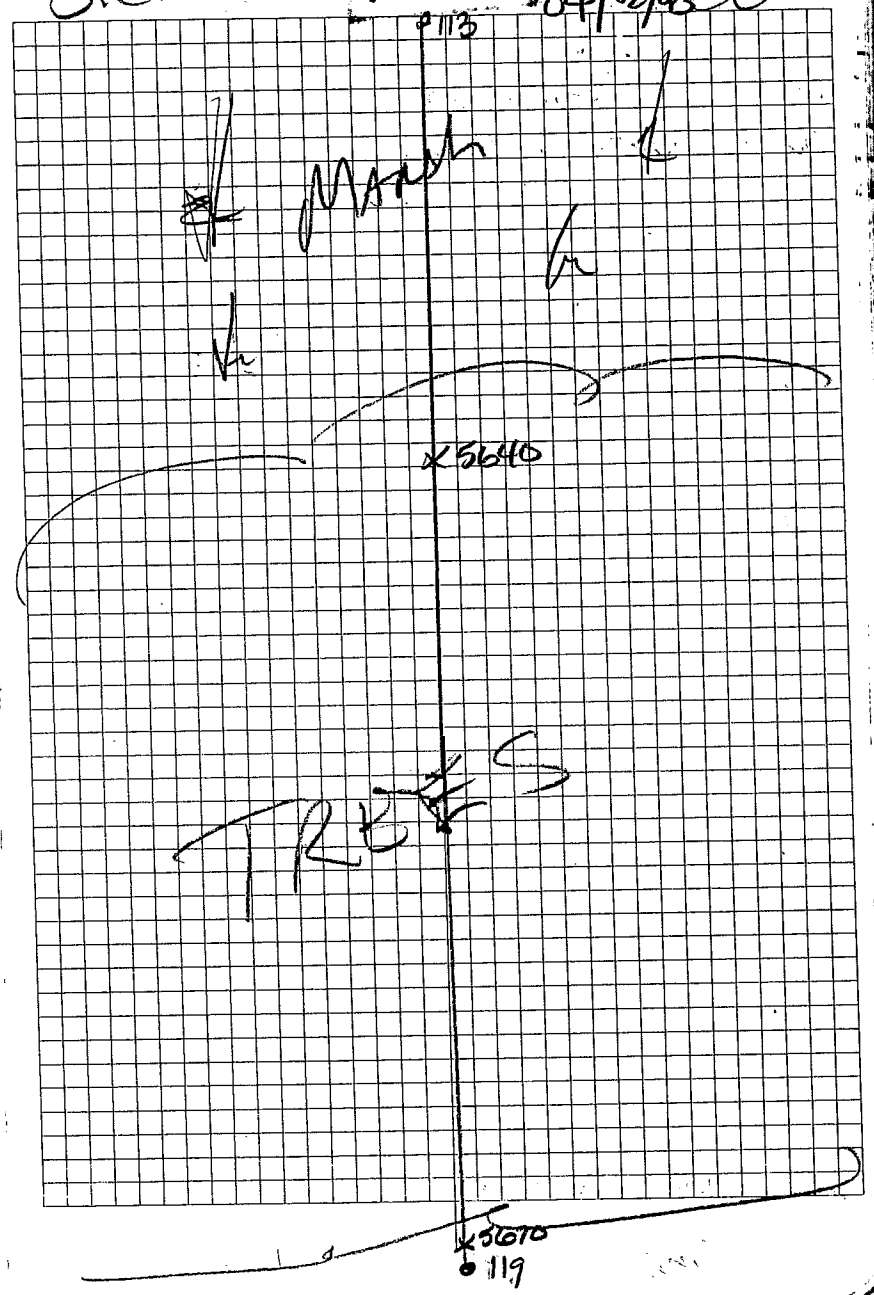
PT#	REMARKS
5640	NATURAL GROUND
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
5670	NATURAL GROUND

RAGE @ ATOP SMGI

S.C.

1948

04/02/08 30



ATCH EAST PASS

JOB NUMBER 9914

Big ISLAND

S.C. 1148 04/02/08 31

PT#	LINE REMARKS
5673	NATURAL GROUND
	"
	"
	"

ATLH. EAST PASS

BIG ISLAND

S.C.

1148 04/02/08

32

Pt #	LINE Remarks
5693	NATURAL GROUND
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
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	"
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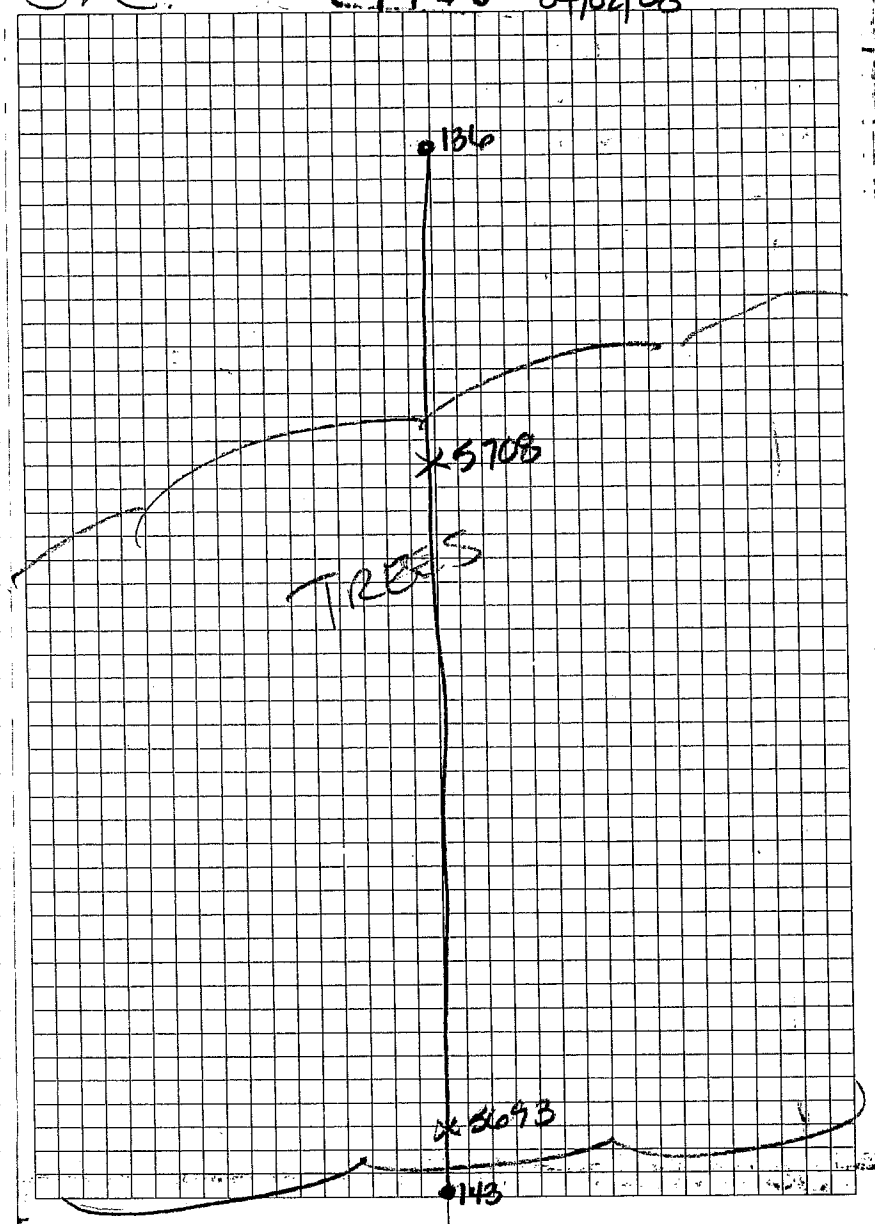
	"
	"
	"
	"
	"
	"
5708	NATURAL GROUND

BASE @ AT03-SM01



ATCH EAST PASS

JOB NUMBER 9-7-14

BIG ISLAND

LINE 154

PT #	REMARKS
5709	NATURAL GROUND
	"
	"
	"

ATCH. EAST PASS

JOB NUMBER 9714

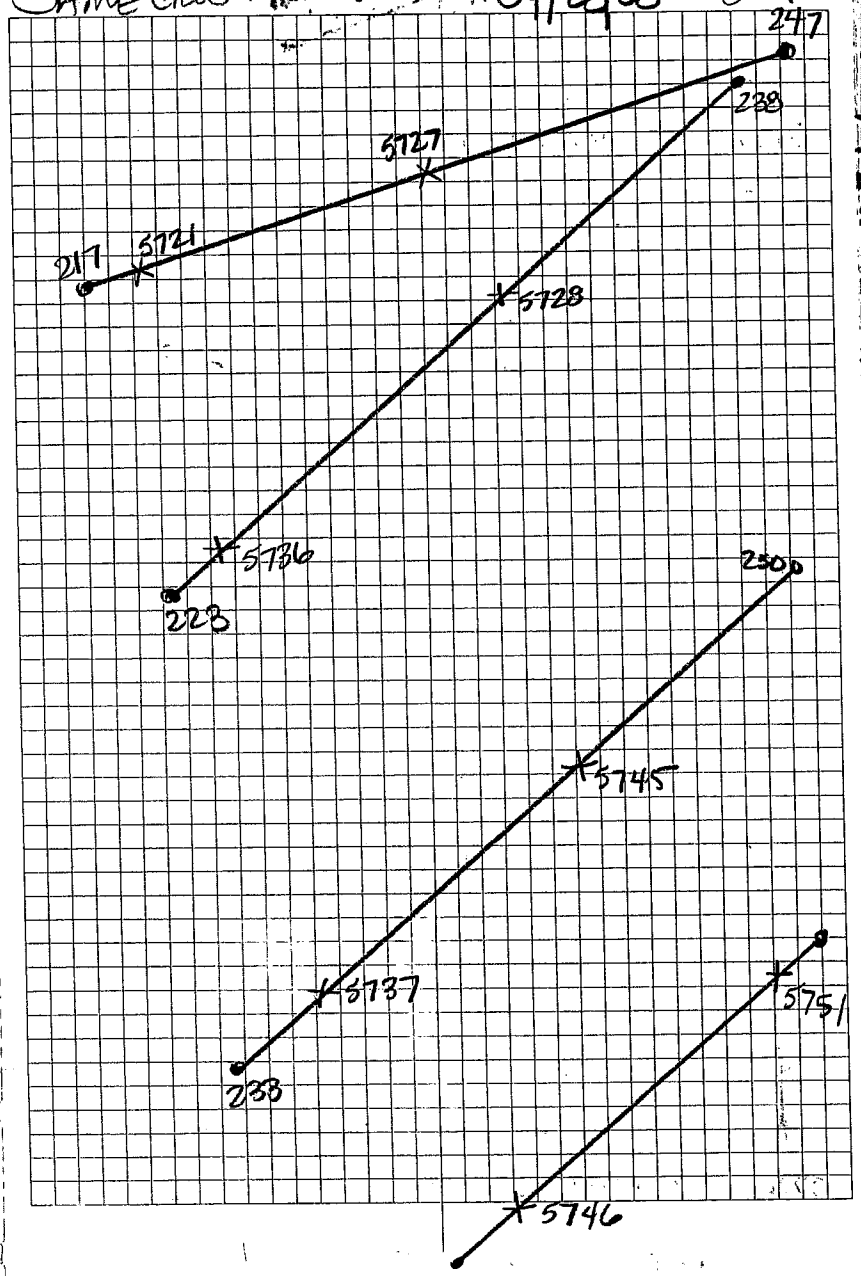
Plumb Island

Pt #	Line Remarks
5721	Natural Bottom
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
5751	Natural Bottom

BASE @ ATO2 - ASMO1

Same Crew T148 04/09/08

34

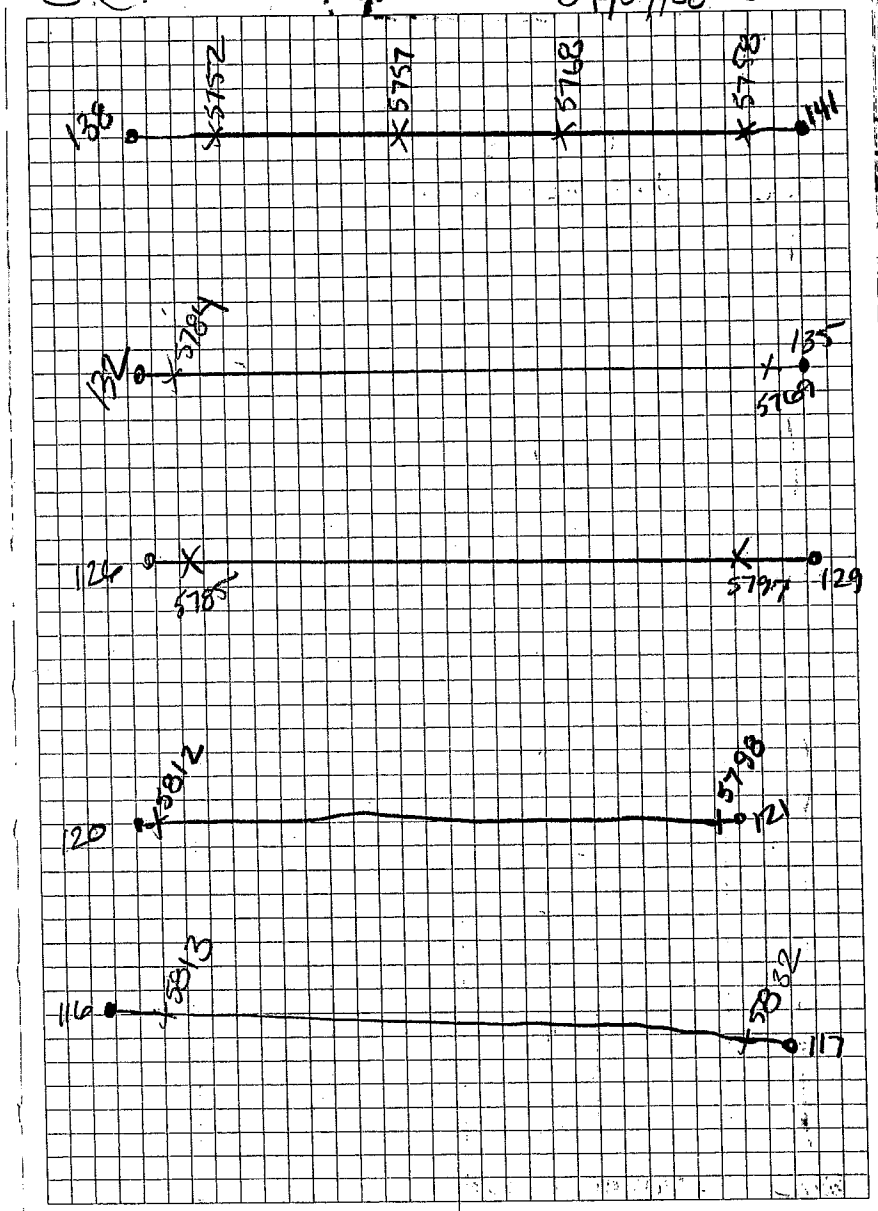


ATTH. EAST PASS JOB NUMBER 9714 Big ISLAND

Point #	Remarks
5752	Natural Bottom
5832	Natural Bottom

BASE @ AT03-SM01

SC 1148 04/09/08 35

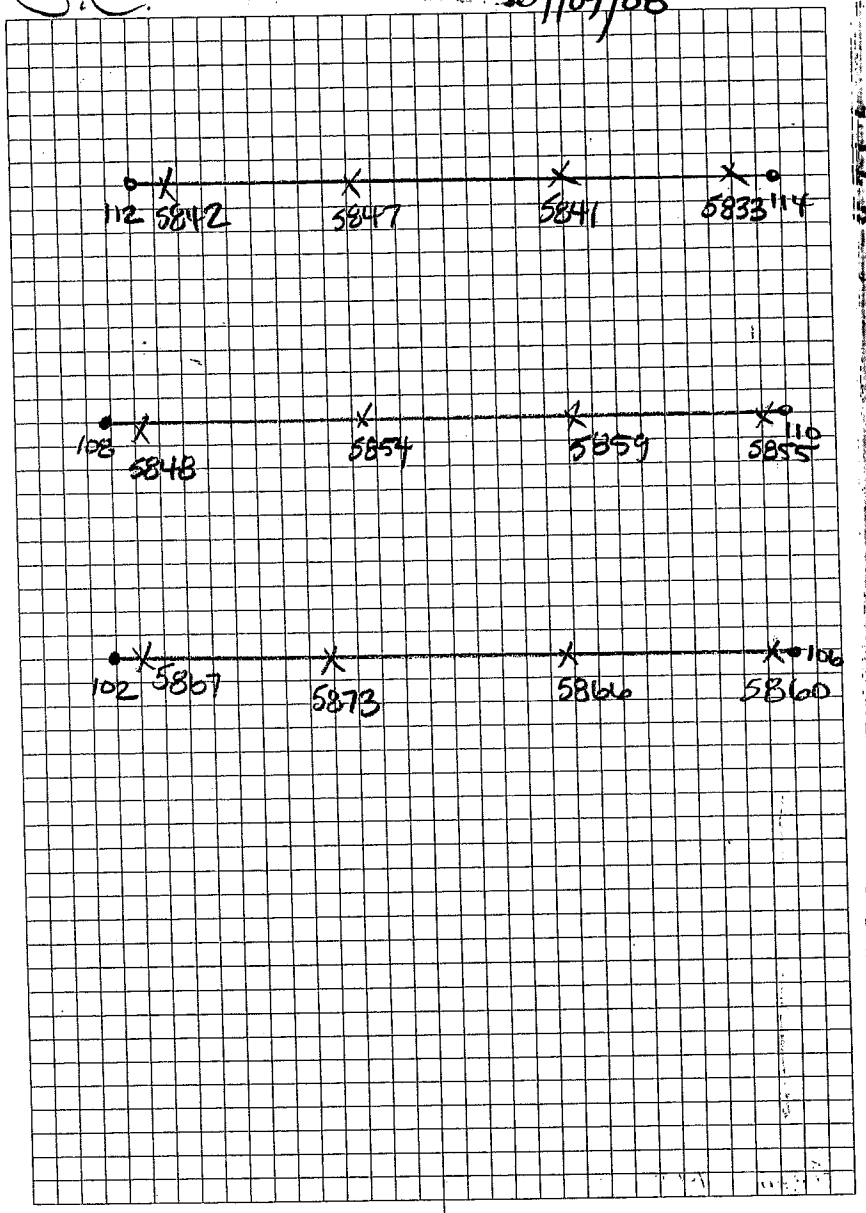


East Pass | JOB NUMBER 9714 | Big Island

S.C. | 04/09/08 | 36

PT#	Rmks
5833	Natural Bottom
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
5873	Natural Bottom

BASE @ AT03-SM01

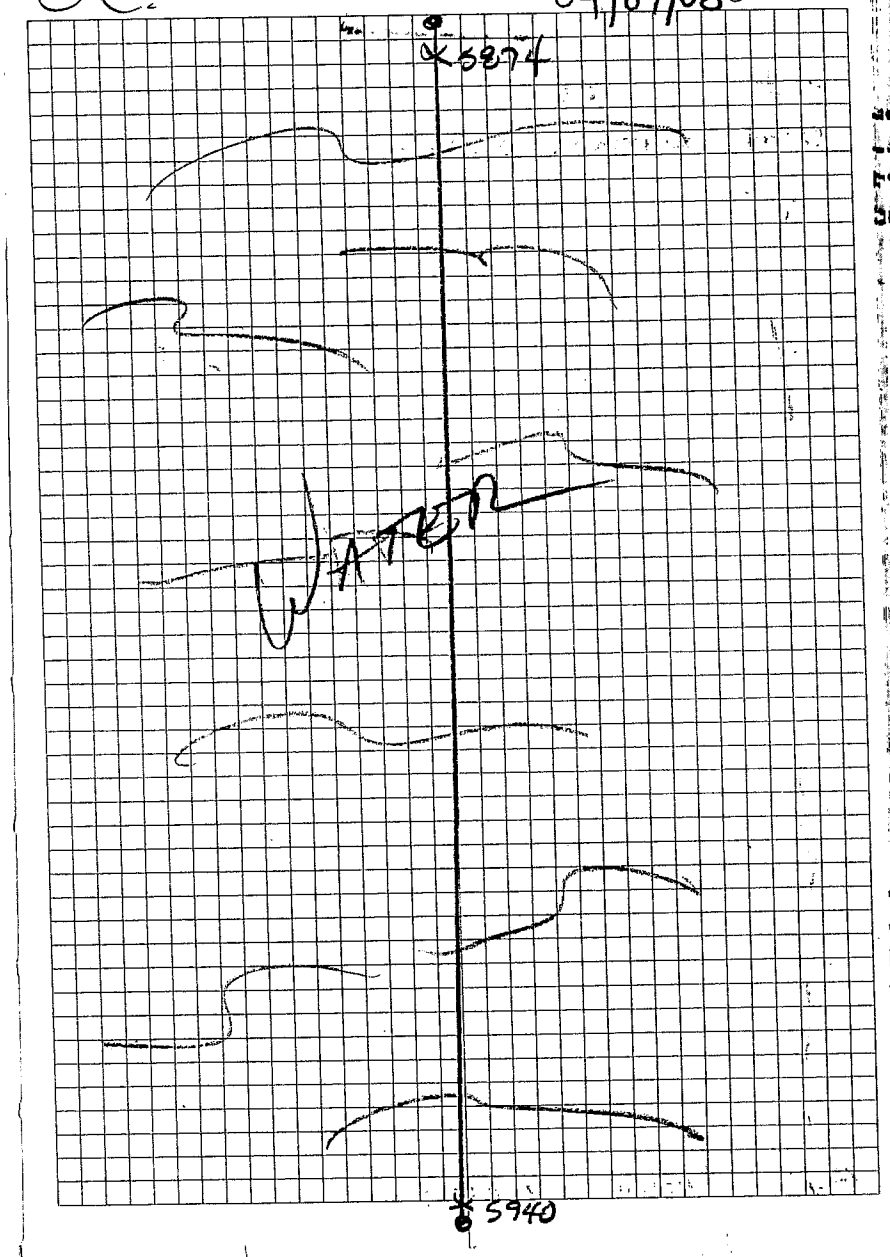


EAST PASS JOB NUMBER 9714 BIG ISLAND

SC. 04/09/08 37

Pt #	Rmks
5874	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
5940	NATURAL BOTTOM

BASE @ ATOR-SM01



East Pass | JOB NUMBER 9714 | Big Island

Pt #

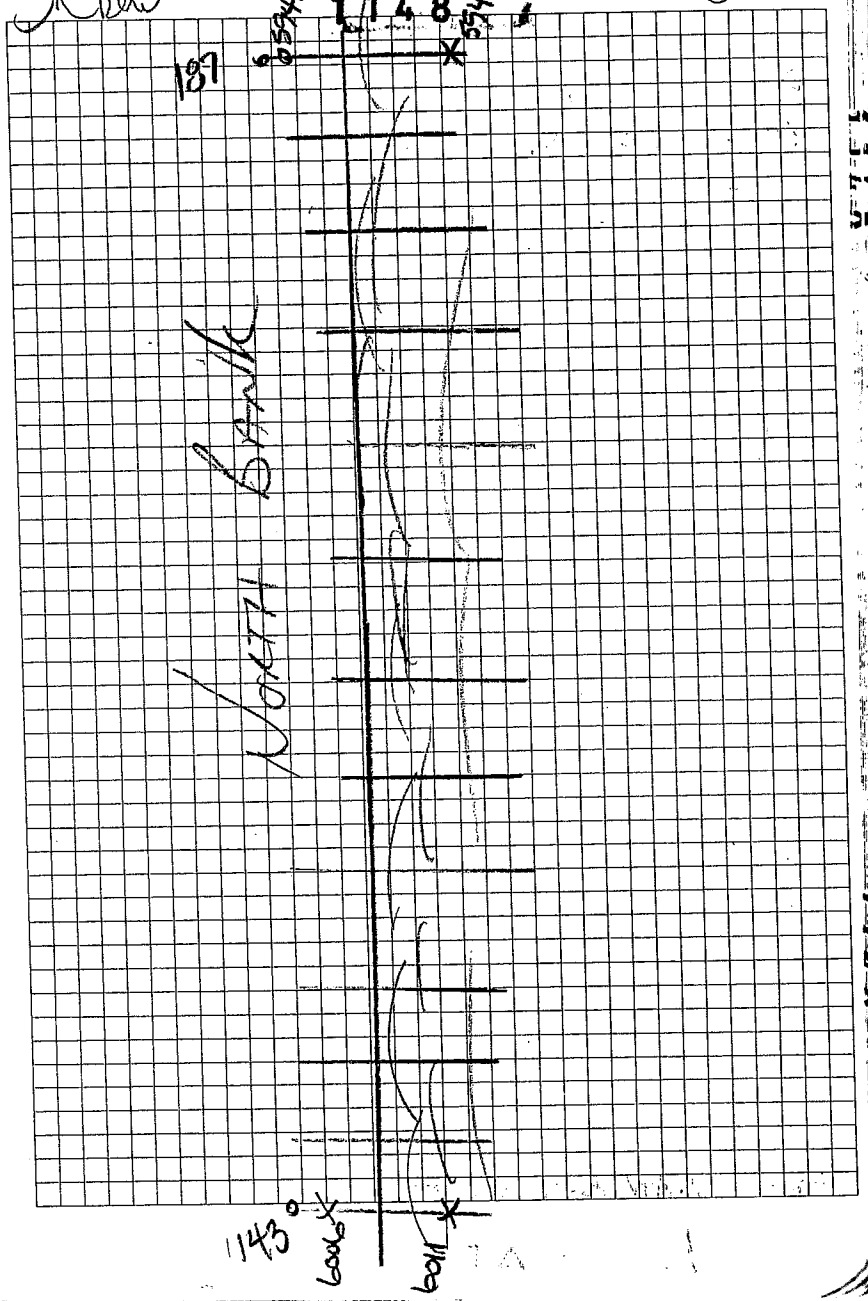
Remarks

5941 Natural Bottom

6011 Natural Bottom

BASC @ AT03-SM01

SCrew



ATCH EAST PASS

JOB NUMBER 9714

BIG ISLAND

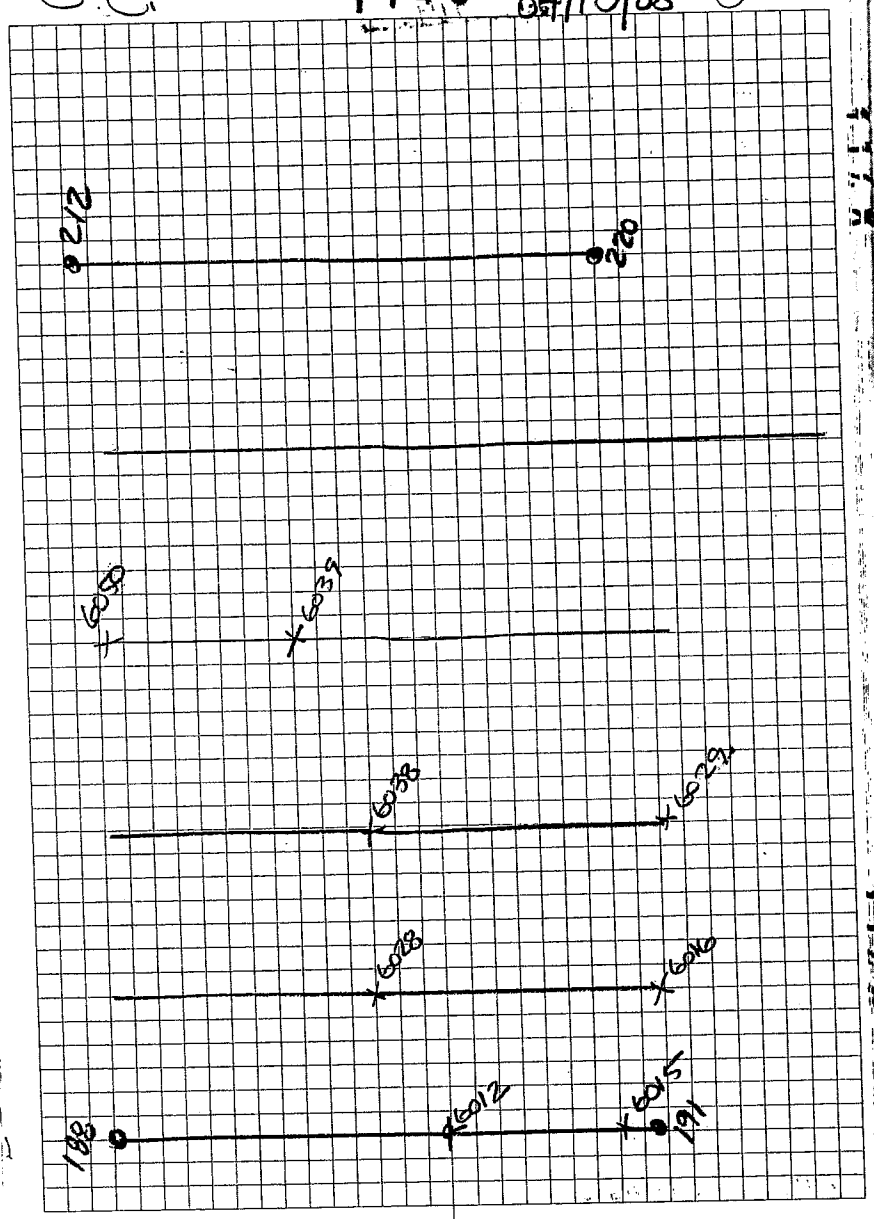
PT#	Remarks
6012	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
6050	NATURAL BOTTOM

BASE @ AT03 - SM 01

S.C.

1148 04/10/08

39



East Pass JOB NUMBER 9714 Big Island

PH Rinks

6051 Natural Bottom

"
"
"

JOB NUMBER
9714

S.C. 04/10/08 41

PT#	Rmks
6117	NATURAL BOTTOM
	"
	"
	"

JOB NUMBER
9714

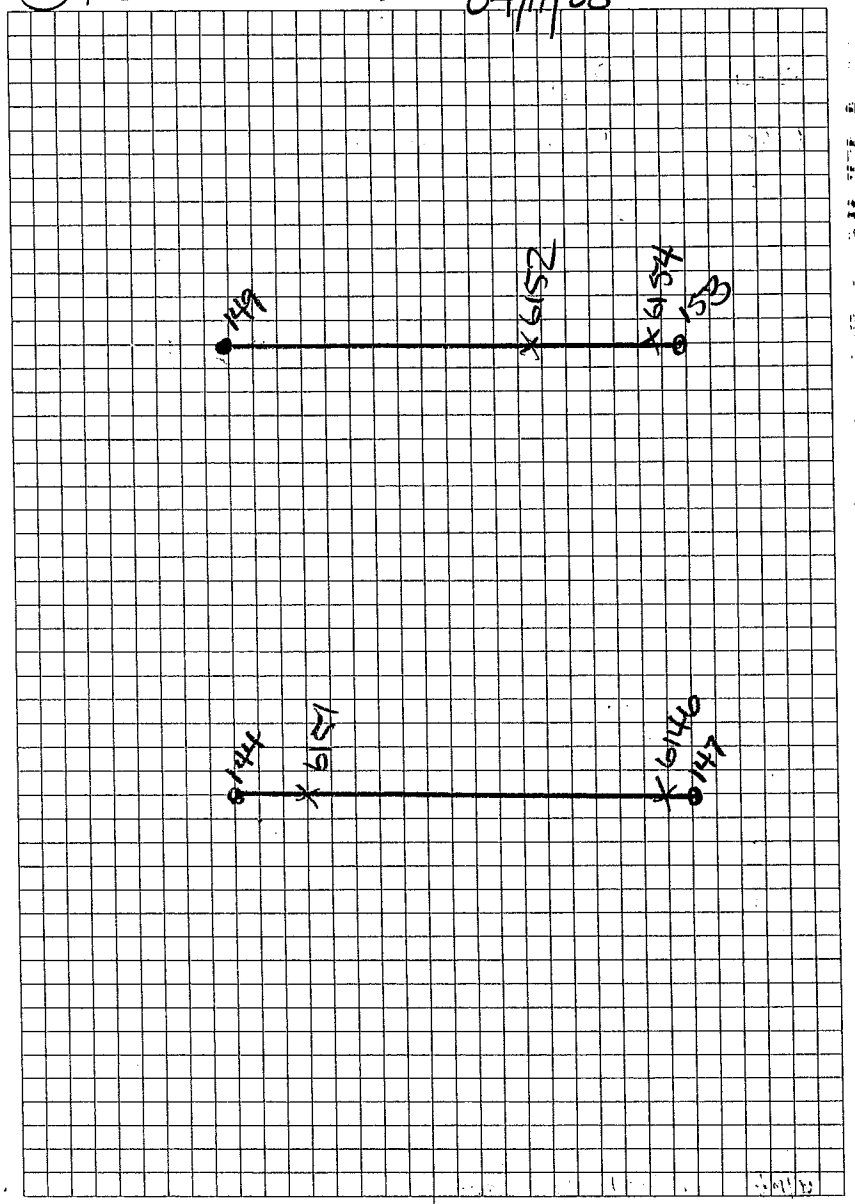
Pt#	Remks
6146	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
6154	NATURAL BOTTOM

BASE @ ATOR - SM01

S.C.

04/14/08

42



JOB NUMBER
9714

PT#	RMKS
6155	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
6166	NATURAL BOTTOM

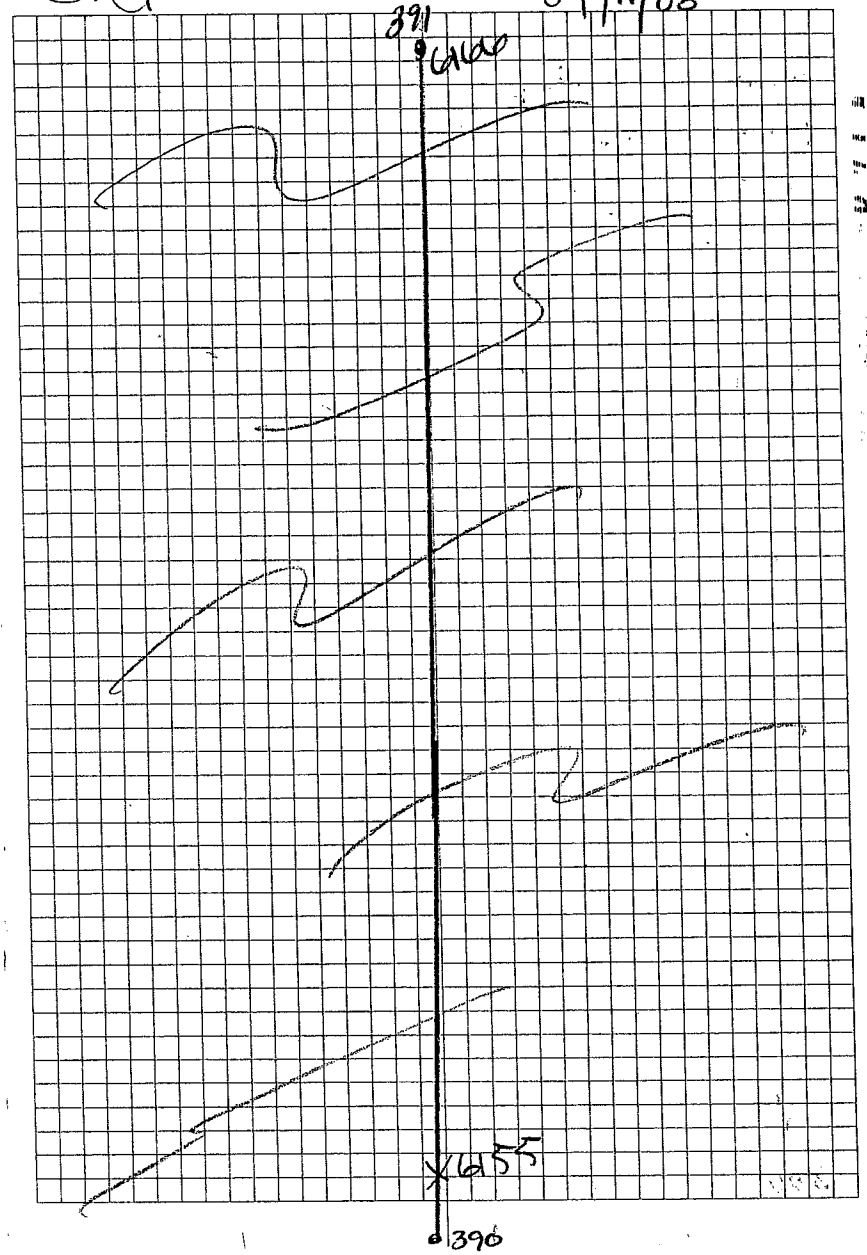
BASCO ATOR-SM01

S.C.

9714 8

04/11/08

43



JOB NUMBER 9714

East Pass

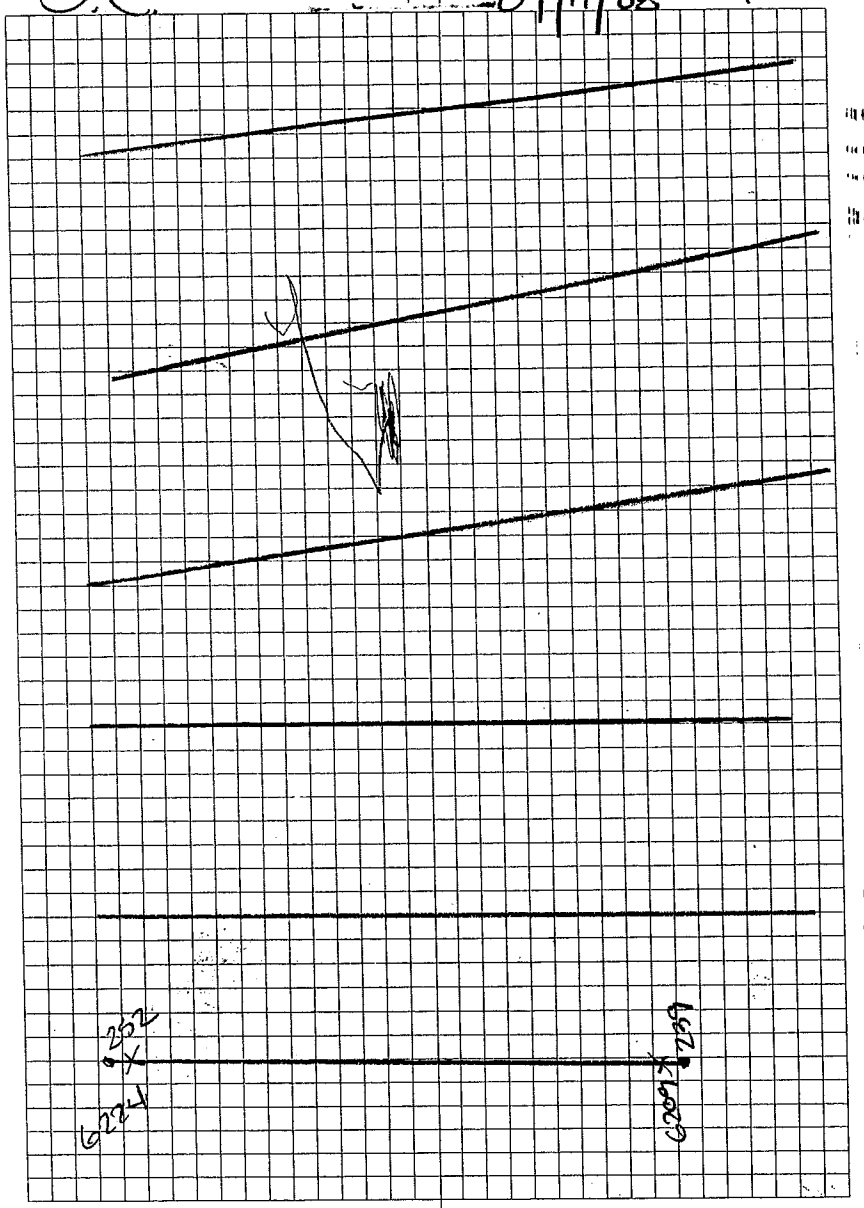
PT#	Rmks
6167	Natural Bottom
	"
	"
	"

JOB NUMBER 9714

PT #	Rmks
6209	NATURAL BOTTOM
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
6224	NATURAL BOTTOM

BASE @ AT02-SM01

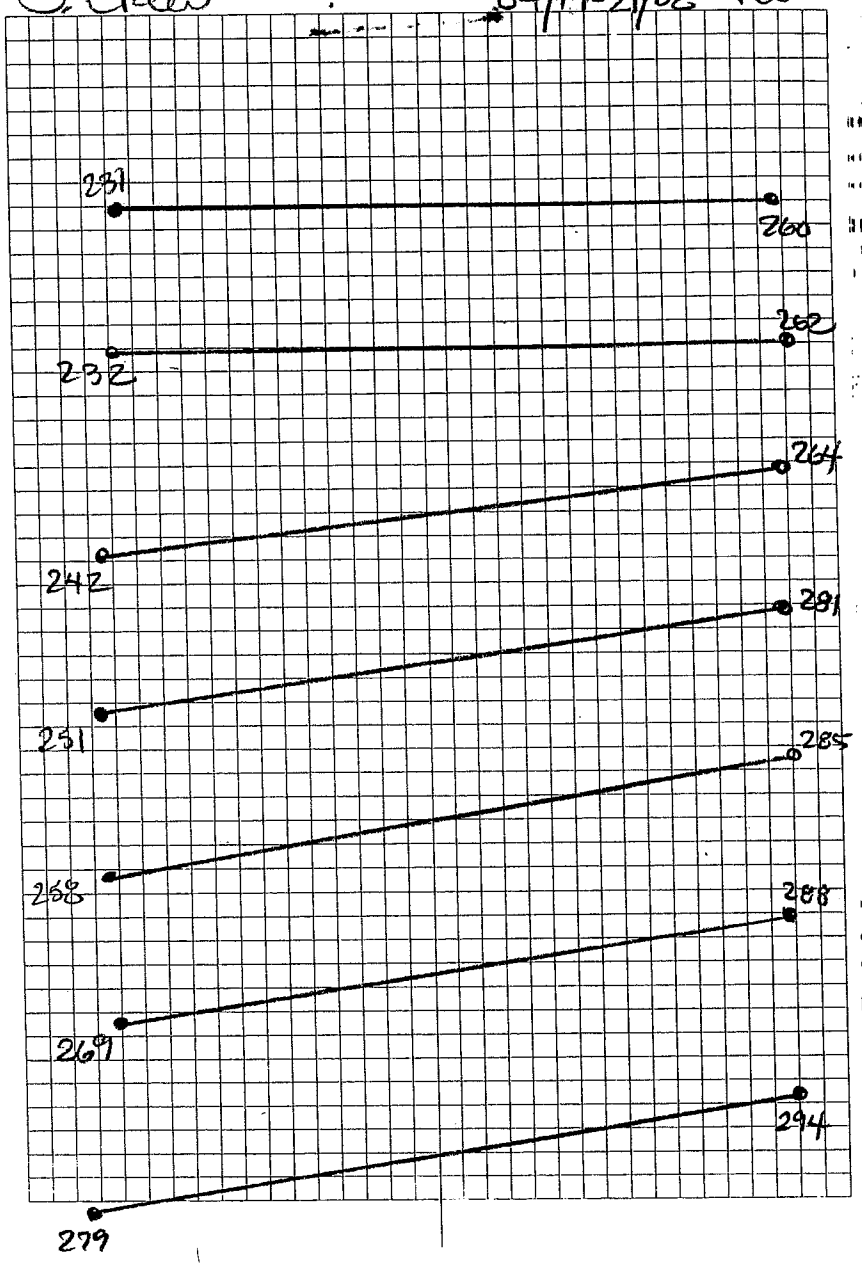
S.C. 04/11/08 45



ATCHAFALAYA EAST PASS JOB NUMBER 9714 Plumb Island

Point #	Remarks
	BASE @ Pt 999
6225	Natural Bottom
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
	"
6931	Natural Bottom

S. Green 04/14-21/08 46



JOB NUMBER 9714

DNR ATCHAFALAYA SEDIMENT AT-02
BIG ISLAND MINING
TIDE GAUGE AT 9:30 AM +2.6'

DIST	DEPTH		
0+00	11.0	-8.4'	7000
0+25 ~~0+20~~	11.0	-8.4'	7001
0+50 ~~0+40~~	10.8	-8.2'	7002
0+75 ~~0+60~~	10.7	-8.1'	7003
1+00 ~~0+80~~	11.0	-8.4'	7004
1+25 ~~1+00~~	10.8	-8.2'	7005
1+50 ~~1+20~~	10.5	-7.9'	7006
1+75 ~~1+40~~	9.8	-7.2'	7007
2+00 ~~1+60~~	9.6	-7.0'	7008
2+25 ~~1+80~~	9.5	-6.9'	7009
2+50 ~~2+00~~	9.5	-6.9'	7010

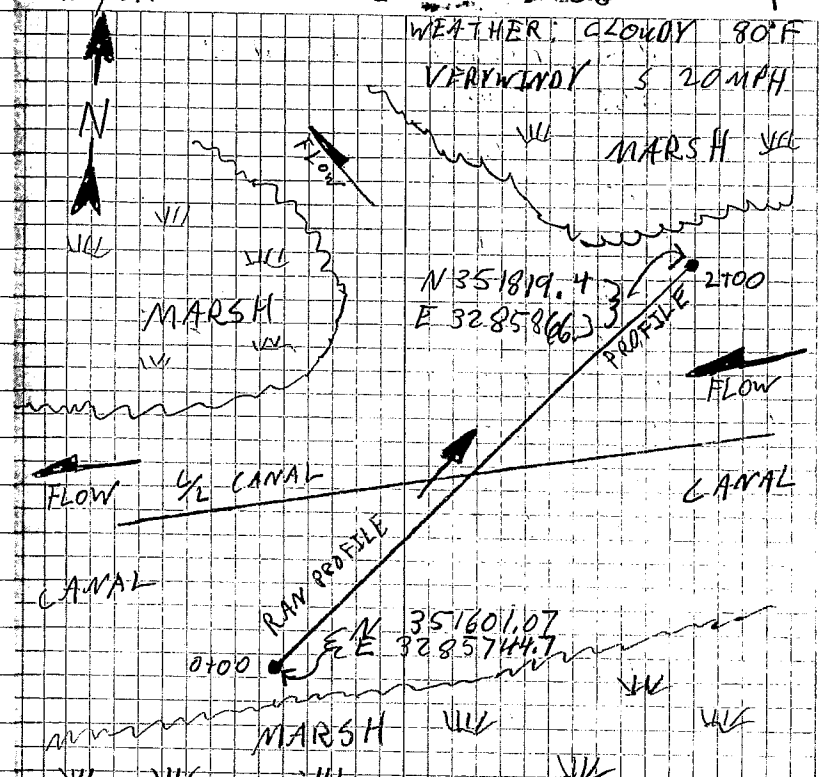
RAN PROFILE FROM SW TO NE

Patrick Mokhtarnejad
Tommy A.

1140 [illegible]
5-2-08

4

WEATHER: CLOUDY 80°F
VERY WINDY S 20 MPH



RAN PROFILE NORTH EASTERLY

JOB NUMBER
9714

P. MOKHTARNEJAD
T. AUTHEMENT

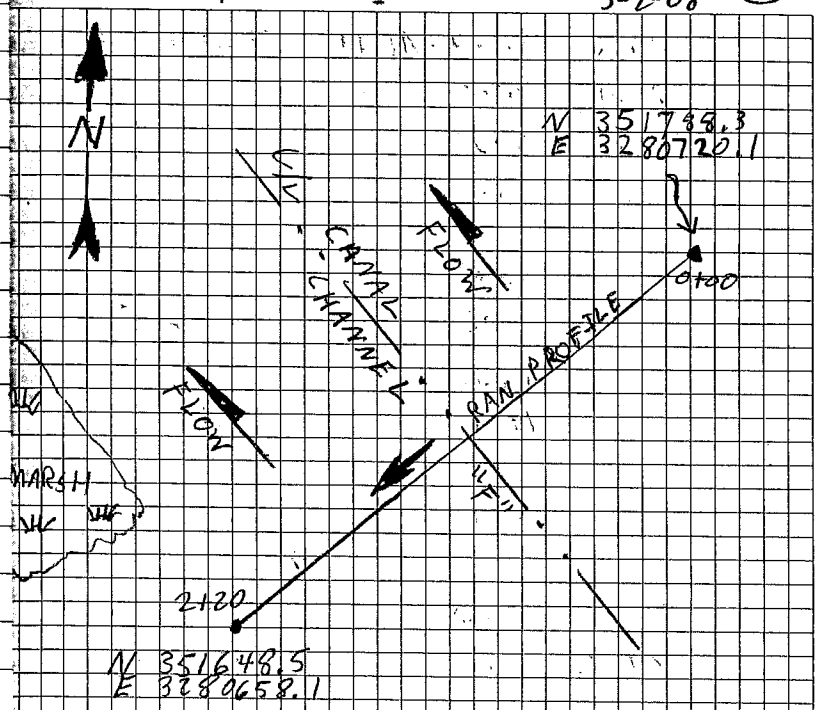
JOB NUMBER
1140

5-2-08

5

	DNR DIST.	ATCHAFALAYA DEPTH		SEDIMENT
	0+00	3.0	-0.4'	
[illegible]	0+20	3.0	-0.4'	7011
[illegible]	0+40	3.1	-0.5'	7012
[illegible]	0+60	4.0	-1.4'	7013
[illegible]	0+80	4.5	-1.9'	7014
[illegible]	1+00	6.0	-3.4'	7015
[illegible]	1+20	6.4	-3.8'	7016
[illegible]	1+40	7.0	-4.4'	7017
A96	1+60	6.9	-4.3'	7018
1+08	1+80	6.5	-3.9'	7019
~~H20~~	~~2+00~~	5.5	-2.9'	7020
H30	~~2+20~~	~~3.8~~	~~1.2'~~	7021

RAN PROFILE FROM NE TO SW
TIDE GAUGE AT SOUTH END
OF CHANNEL "E" AT 10:00 AM
AT +2.6'.



RAN PROFILE SOUTH WESTERLY

JOB NUMBER
9714.0

DNR ATCHAFALAYA SEDIMENT

DEPTH	DIST		
4.6	0+00	-1.8'	
3.8	0+20	-1.0'	7022
3.5	0+40	-0.7'	7023
4.5	0+60	-1.7'	7024
5.5	0+80	-0.7'	7025
6.0	1+00	-3.2'	7026
5.5	1+20	-2.7'	7027
4.0	1+40	-1.2'	7028
3.5	1+60	-0.7	

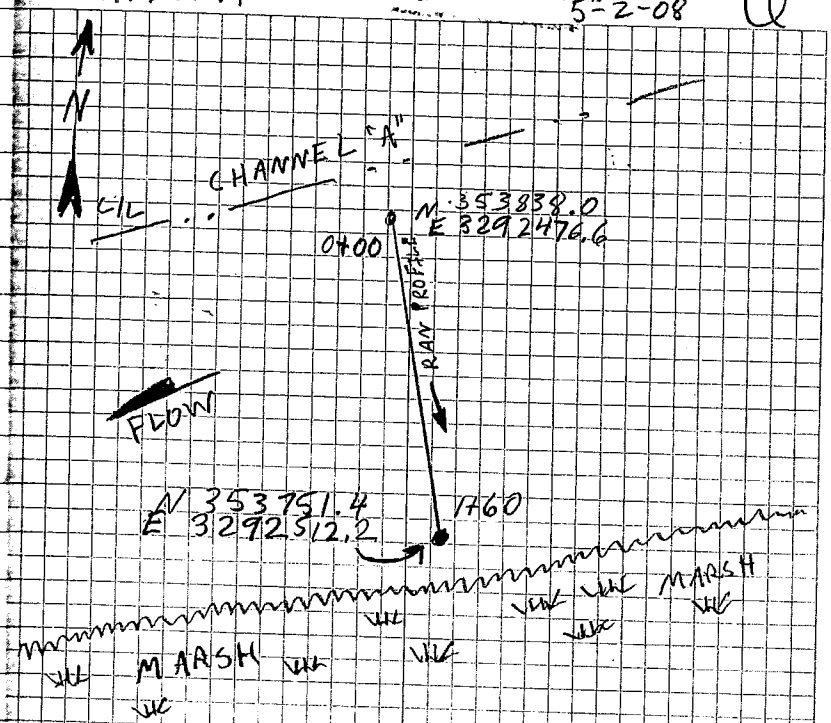
TIDE GAUGE AT INTERSECTION OF CHANNEL "D" AND CHANNEL "A" AT 10:30 AM AT +2.8'.
RAN PROFILE FROM NORTH TO SOUTH

USED TRUCK #72 WITH 47,383 MILES ENDED WITH 47,460 MILES
USED SCULLY

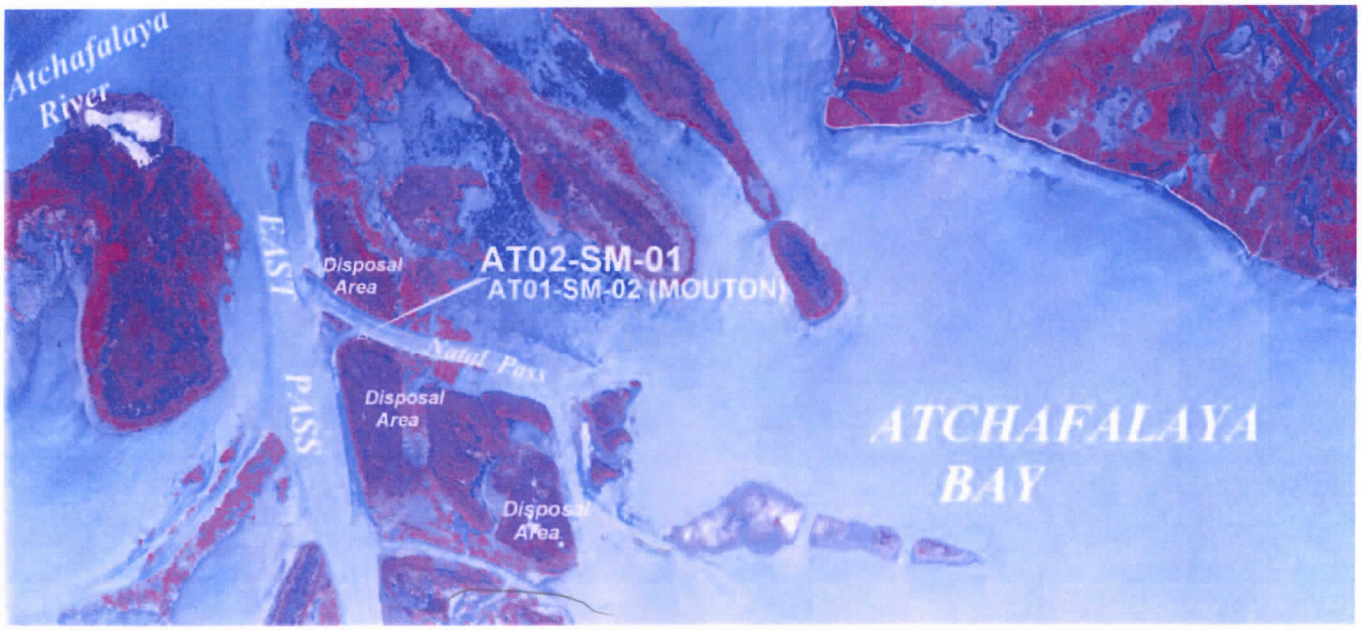
P. MOKHTARNEJAD
T. AUTHEMENT

5-2-08

6



TIDE GAUGE READING AT 10:30 AM +2.8'
RAN PROFILE SOUTHERLY



VICINITY MAP Reproduced from U.S. Geological Survey, NWRC Aerial dated March 2001

Station Name: AT02-SM-01

Monument Location: This station is located in the Atchafalaya Delta Wildlife Management Area in Atchafalaya Bay, Louisiana, on the south side of Natal Pass southeast of Atchafalaya River Outlet.

Monument Description: NGS Style Floating Sleeve Monument: Stainless steel sectional rods driven 60 feet to refusal within a greased sleeve and sand filled 6" PVC pipe with protective cover and is set flush with the ground.

Monument Established By: John Chance Land Surveys, Inc.

For: LA Department of Natural Resources, CRD

Stamping: "AT02-SM-01"

Date: December 2003

Adjusted NAD 83 Geodetic Position
Lat. 29° 26' 14.995420"N
Long. 91° 16' 48.184588"W

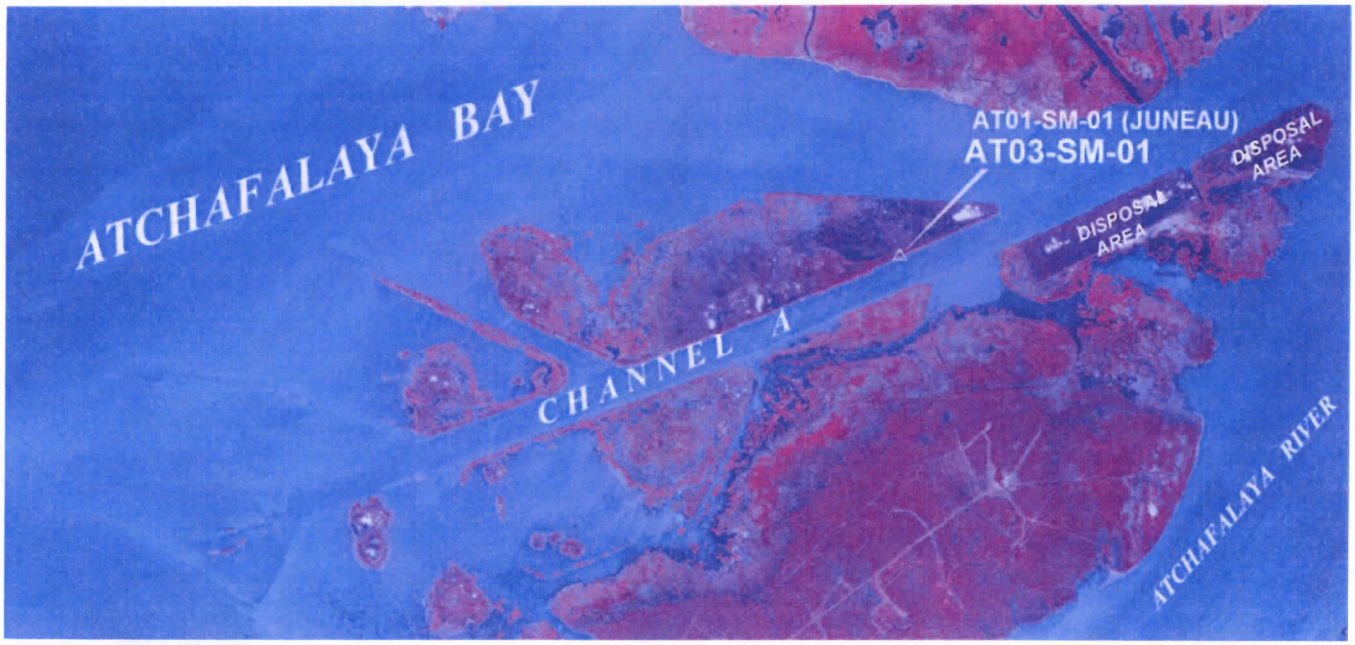
Adjusted NAD 83 Datum LSZ (1702) Ft
N= 340,941.78
E= 3,297,793.92

Adjusted NAVD88 Height
Elevation = 2.82 feet (0.860 mtrs)

Delta Hgt. Difference from Mon. "AT02-SM-01"
-1.105 feet (-0.337 mtrs)

Geoid99 Height = -25.141 mtrs.
Ellipsoid Height = -24.281 mtrs.

Adjusted CORS Height = 2.73 feet (0.831 mtrs)
Avg. of OPUS Solutions = 2.73 feet (0.831 mtrs)



VICINITY MAP Reproduced from U.S. Geological Survey, NWRC Aerial dated March 2001

Station Name: AT03-SM-01

Monument Location: This station is located in the Atchafalaya Delta Wildlife Management Area in Atchafalaya Bay, Louisiana, on the north-descending bank of the Big Island Channel and is west of the Atchafalaya River Outlet.

Monument Description: NGS Style Floating Sleeve Monument: Stainless steel sectional rods driven 64 feet to refusal within a greased sleeve and sand filled 6" PVC pipe with protective cover and is set flush with the ground.

Monument Established By: John Chance Land Surveys, Inc.

For: LA Department of Natural Resources, CRD

Stamping: "AT03-SM-01"

Date: December 2003

Adjusted NAD 83 Geodetic Position
Lat. 29° 28' 17.884127"N
Long. 91° 18' 18.396182"W

Adjusted NAD 83 Datum LSZ (1702) Ft
N= 353,352.33
E= 3,289,814.23

Adjusted NAVD88 Height
Elevation = 3.23 feet (0.983 mtrs)

Delta Hgt. Difference from Mon. "AT01-SM-01"
-2.17 feet (-0.661 mtrs)

Geoid99 Height = -25.210 mtrs.
Ellipsoid Height = -24.227 mtrs.

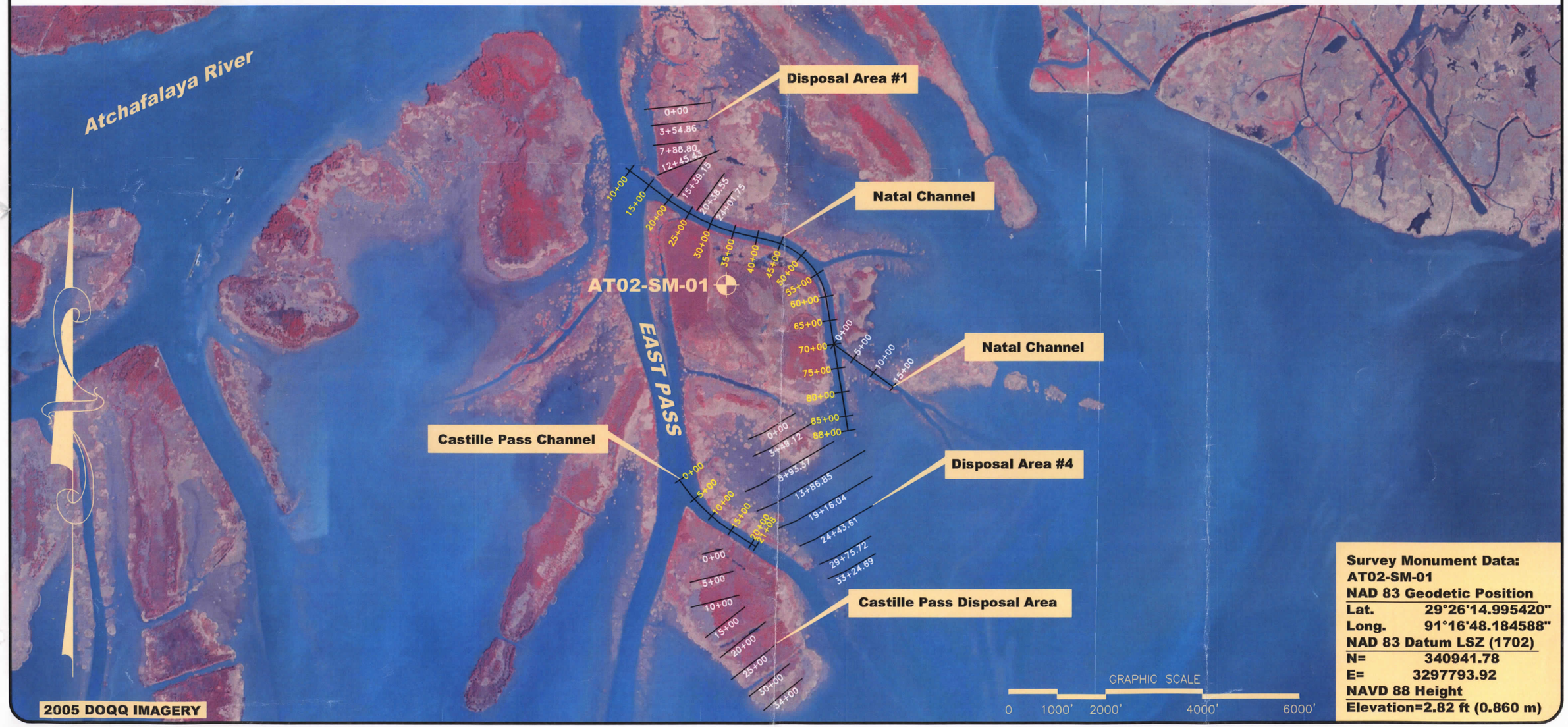
Adjusted CORS Height = 3.12 feet (0.950 mtrs)
Avg. of OPUS Solutions = 3.12 feet (0.950 mtrs)

STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

mph_logo_tag.jpg

TOPOGRAPHIC AND BATHYMETRIC SURVEY
ATCHAFALAYA SEDIMENT DELIVERY (AT-02)

05/15/08



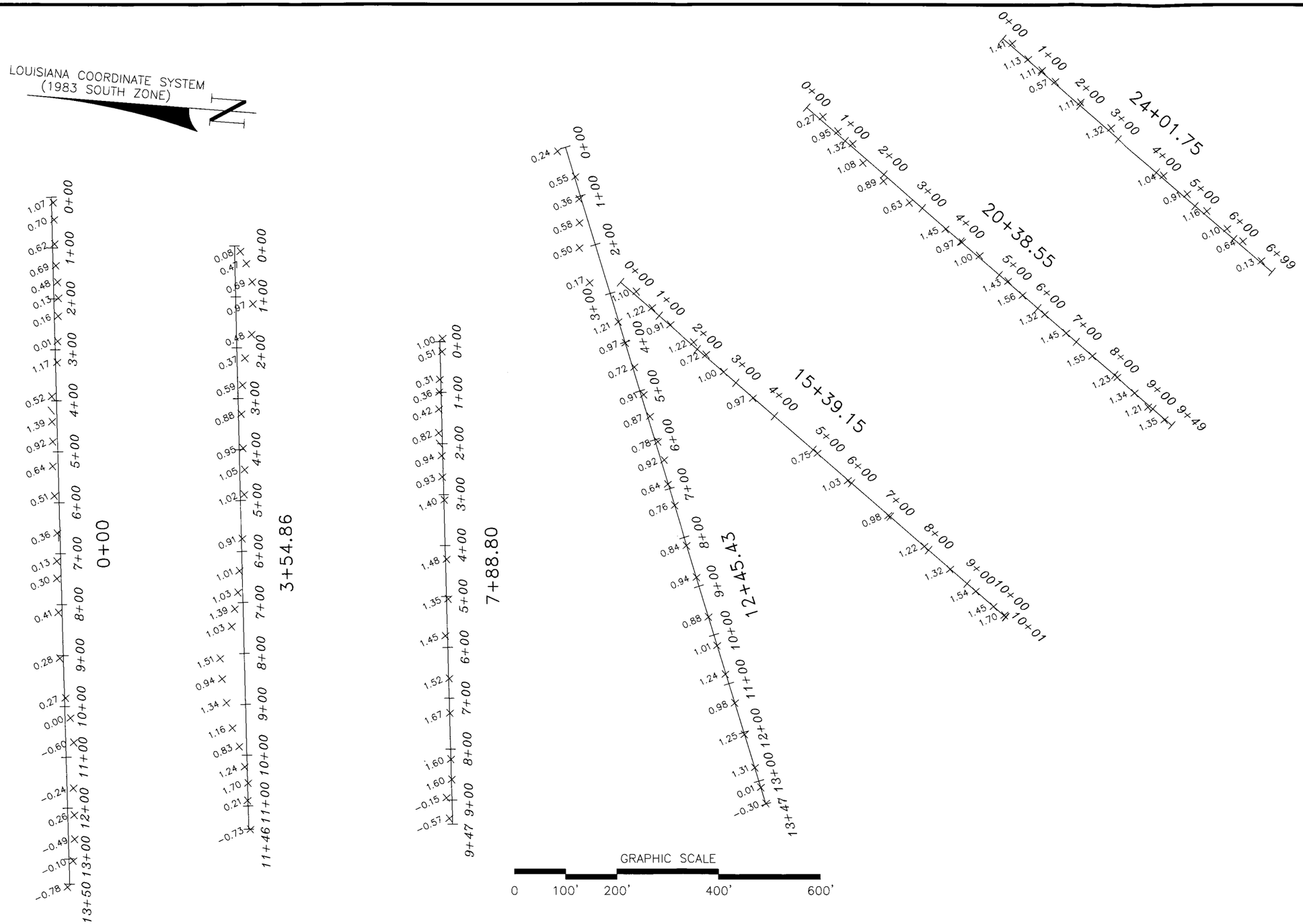
Survey Monument Data:
AT02-SM-01
NAD 83 Geodetic Position

Lat.	29°26'14.995420"
Long.	91°16'48.184588"

NAD 83 Datum LSZ (1702)

N=	340941.78
E=	3297793.92

NAVD 88 Height
Elevation=2.82 ft (0.860 m)



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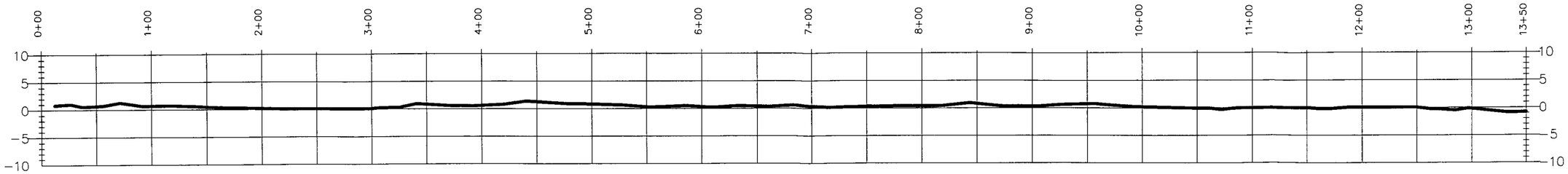
10101 SOUTHWEST FREEWAY • SUITE 400 • HOUSTON, TEXAS 77074 • (713) 219-1470

LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

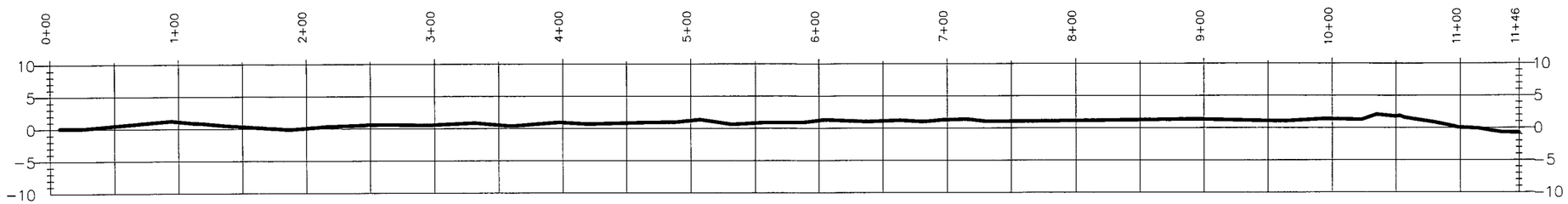
AT-02
PLAN VIEW
FOR
DISPOSAL AREA #1

DRAWN BY:	CJG	SHEET:	1
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 DISPOSAL AREA #1_PLAN 1.DWG			

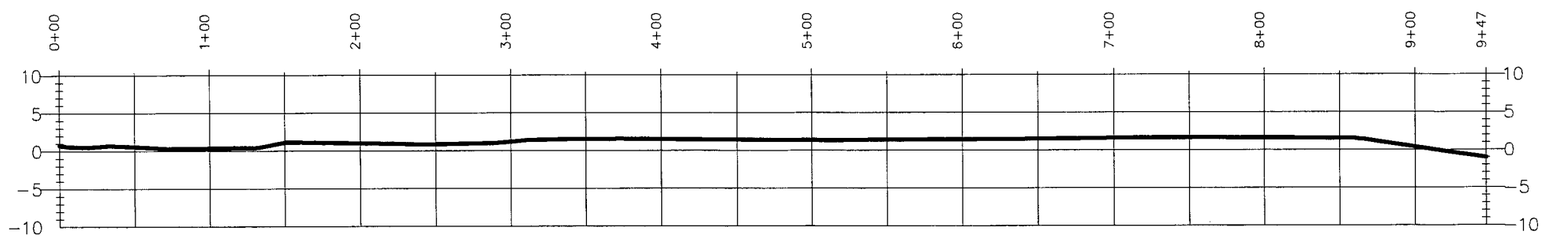
W:\dwg\9714 drawings\AT-02 DISPOSAL AREA #1_PLAN 1.dwg PLOT DATE: 6/5/08 7:39:42am



TRANSECT 0+00 (LOOKING SOUTHEASTERLY)



TRANSECT 3+54.85 (LOOKING SOUTHEASTERLY)



TRANSECT 7+68.80 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE
0 50' 100' 200' 300'
0 10' 20' 40' 60'
VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
DISPOSAL AREA #1

DRAWN BY:	CJG	SHEET:	1
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5/21/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 DISPOSAL AREA #1_PROFILE.DWG			

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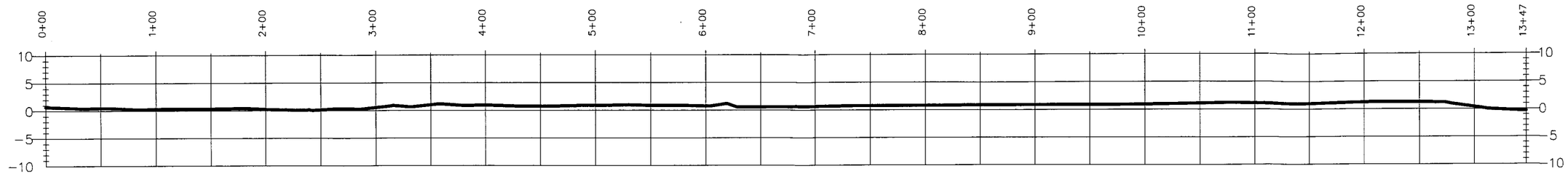
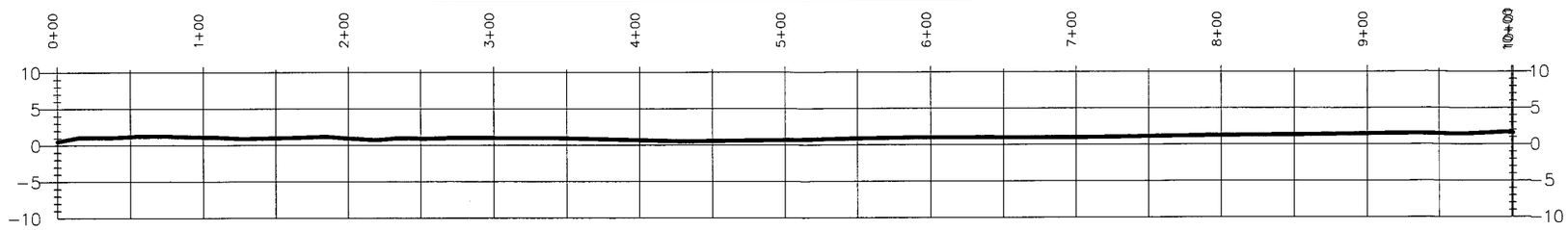
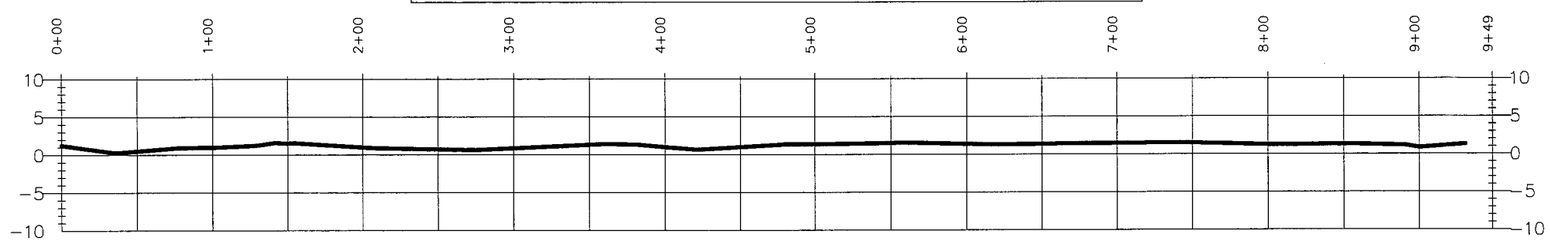


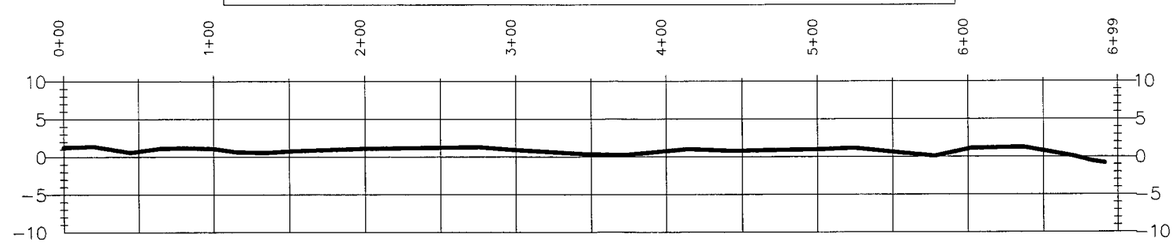
TRANSECT 12+45.43 (LOOKING SOUTHEASTERLY)



TRANSECT 15+39.15 (LOOKING SOUTHEASTERLY)



TRANSECT 20+38.55 (LOOKING SOUTHEASTERLY)



TRANSECT 24+01.75 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE

0 50' 100' 200' 300'

0 10' 20' 40' 60'

VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
DISPOSAL AREA #1

DRAWN BY:	CJG	SHEET:	2
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5/21/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 DISPOSAL AREA #1_PROFILE.DWG			

W:\dwg\9714\dwgs\AT-02 DISPOSAL AREA #1_PROFILE.dwg PLOT DATE: 5/4/08 9:10:41am

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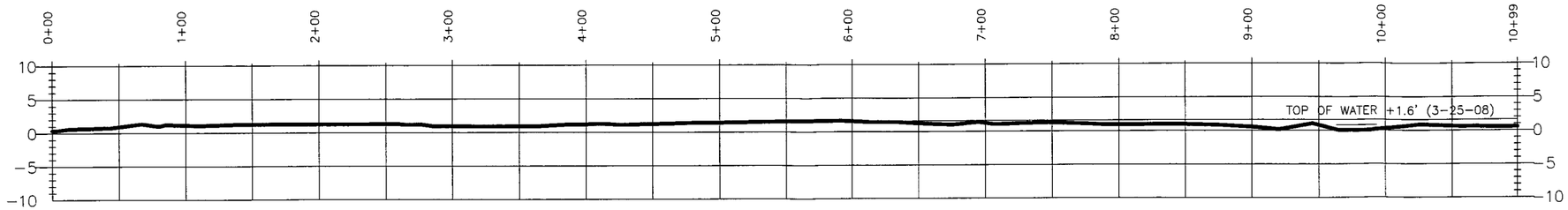
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

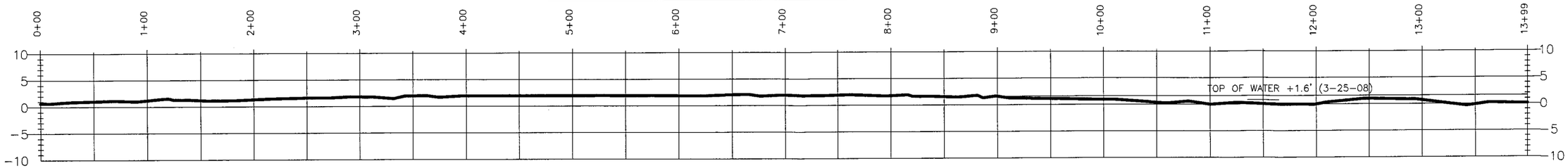
AT-02
PLAN VIEW
FOR
DISPOSAL AREA #4

DRAWN BY:	CJG	SHEET:	1
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 DISPOSAL AREA #4_PLAN.DWG			

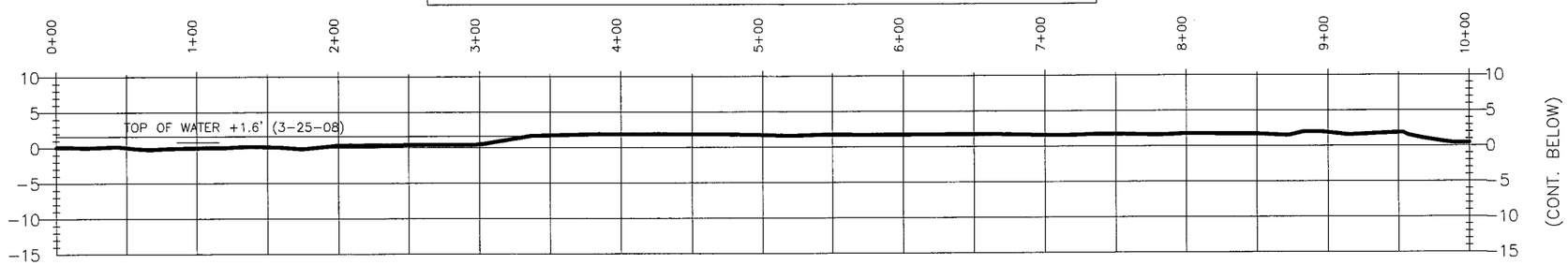
w:\dwg\9714\ a drawings\AT-02 DISPOSAL AREA #4_PLAN.dwg PLOT DATE: 6/3/08 7:41:59am



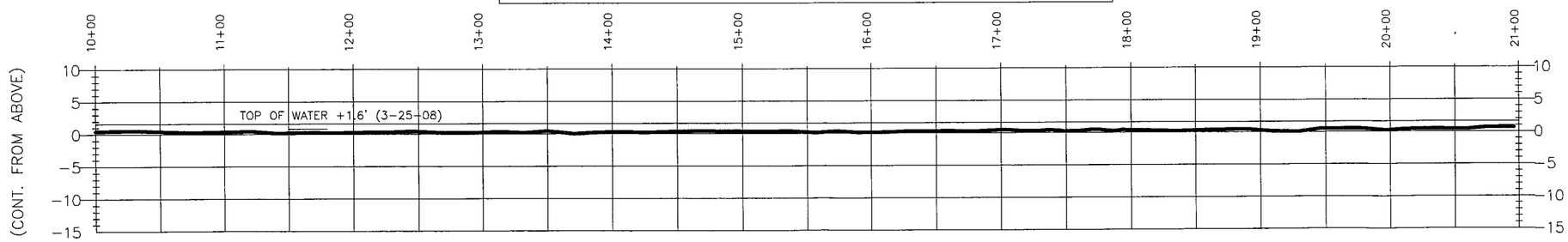
TRANSECT 0+00 (LOOKING SOUTHEASTERLY)



TRANSECT 3+49.12 (LOOKING SOUTHEASTERLY)



TRANSECT 8+96.37 (LOOKING SOUTHEASTERLY)



TRANSECT 8+96.37 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE

0 50' 100' 200' 300'

0 10' 20' 40' 60'

VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
DISPOSAL AREA #4

DRAWN BY:	AJG	SHEET:	1
CHKD./APPD. BY:	DAB/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 DISPOSAL AREA #4_PROFILE.DWG			

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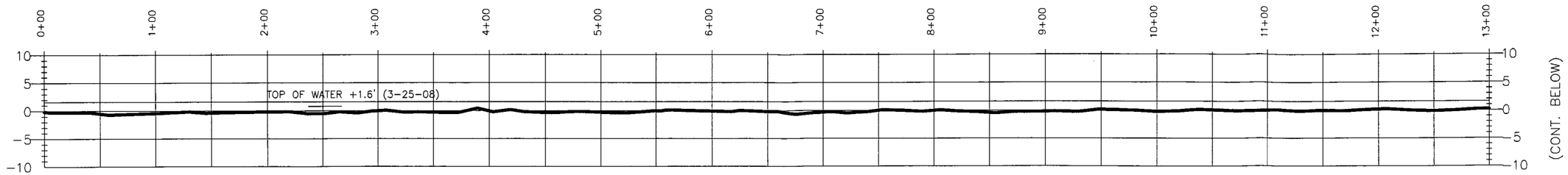
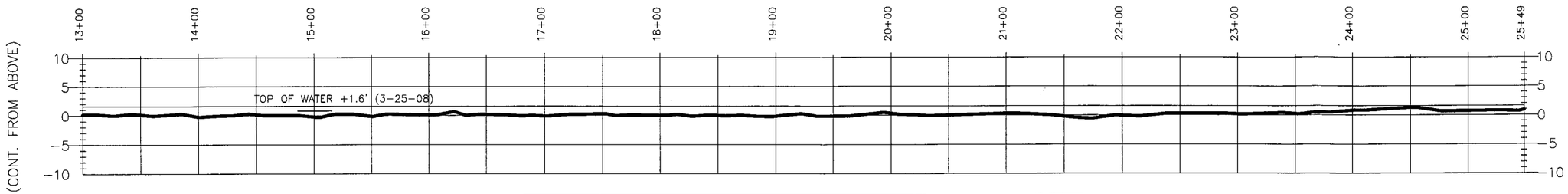
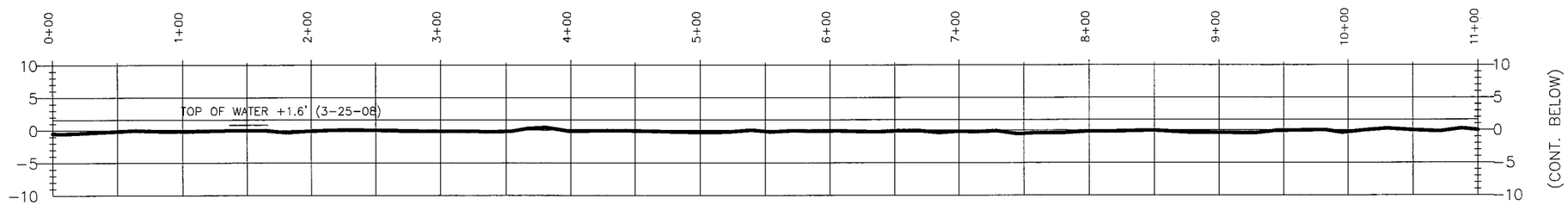


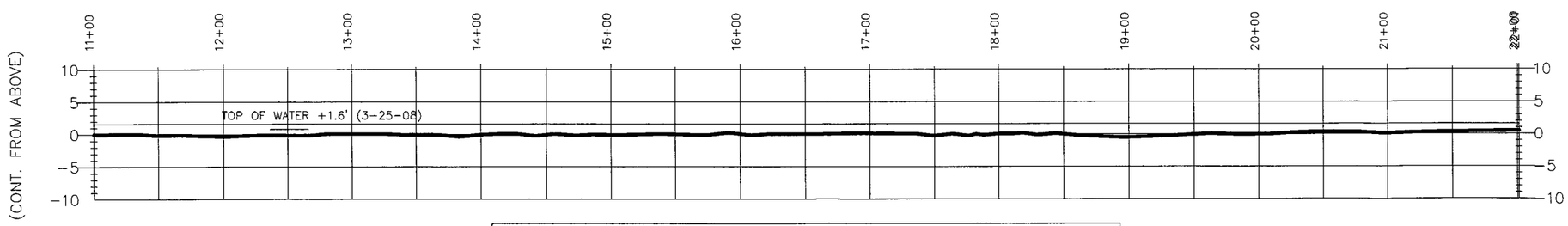
TRANSECT 13+86.85 (LOOKING SOUTHEASTERLY)



TRANSECT 13+86.85 (LOOKING SOUTHEASTERLY)



TRANSECT 19+16.04 (LOOKING SOUTHEASTERLY)



TRANSECT 19+16.04 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE
0 50' 100' 200' 300'
0 10' 20' 40' 60'
VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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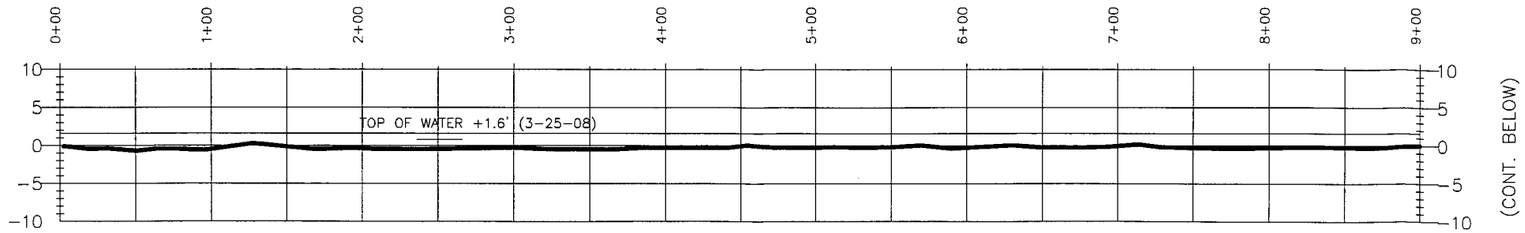
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

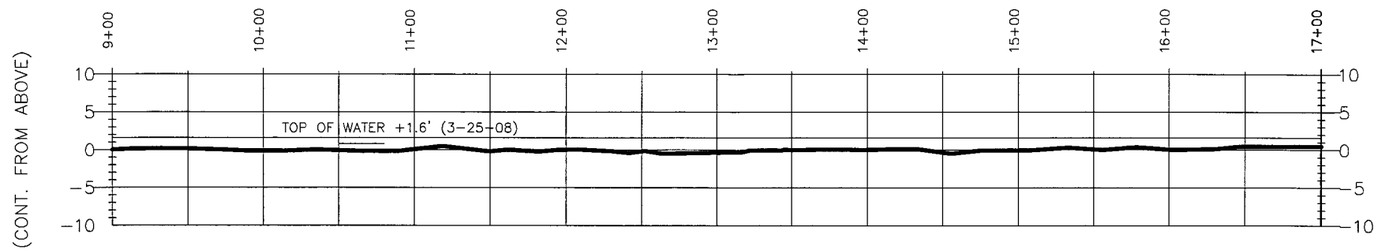
AT-02
TRANSECTS
FOR
DISPOSAL AREA #4

DRAWN BY:	CJG	SHEET:	2
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 DISPOSAL AREA #4_PROFILE.DWG			

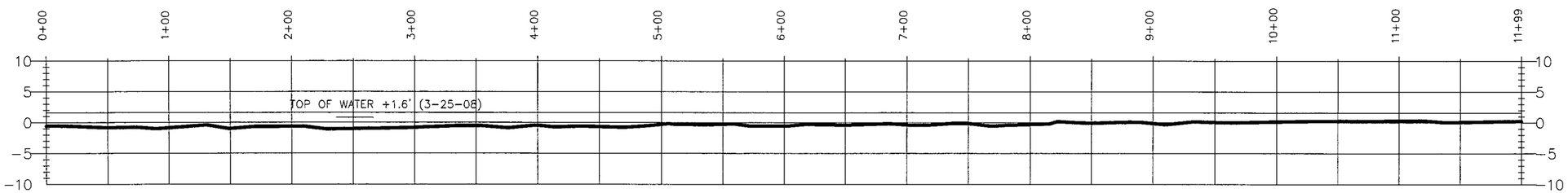
W:\DWG\9714\CD\drawings\AT-02 DISPOSAL AREA #4_PROFILE.dwg PLOT DATE: 6/4/08 9:17:40am



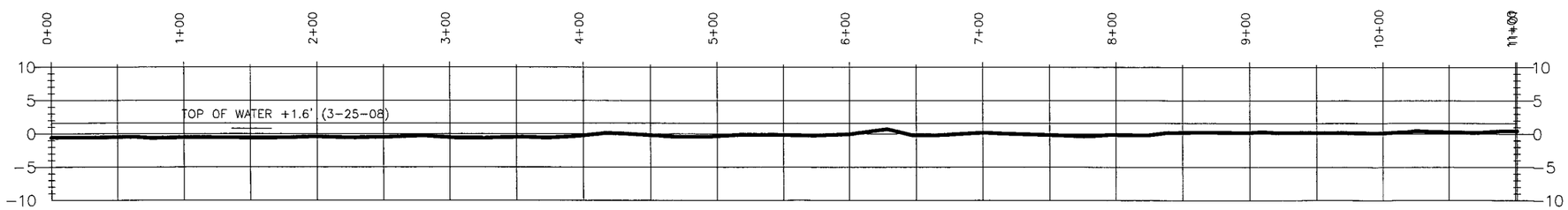
TRANSECT 24+43.61 (LOOKING SOUTHEASTERLY)



TRANSECT 24+43.61 (LOOKING SOUTHEASTERLY)



TRANSECT 29+75.72 (LOOKING SOUTHEASTERLY)



TRANSECT 33+24.69 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE
0 50' 100' 200' 300'
0 10' 20' 40' 60'
VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
DISPOSAL AREA #4

DRAWN BY:	CJG	SHEET:	3
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 DISPOSAL AREA #4_PROFILE.DWG			

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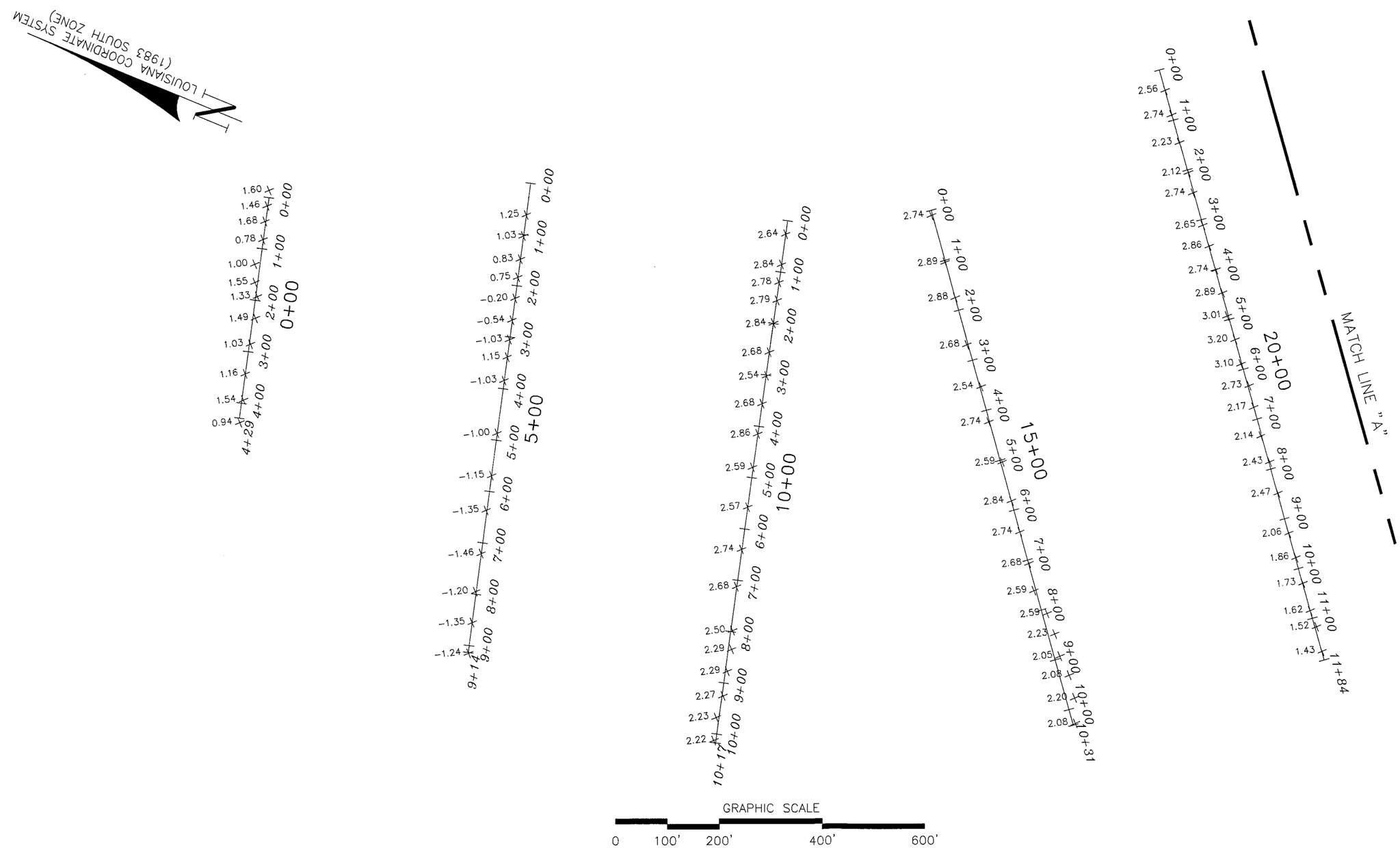
drawings\AT-02 DISPOSAL AREA #4_PROFILE.dwg PLOT DATE: 5/4/08 9:17:23am



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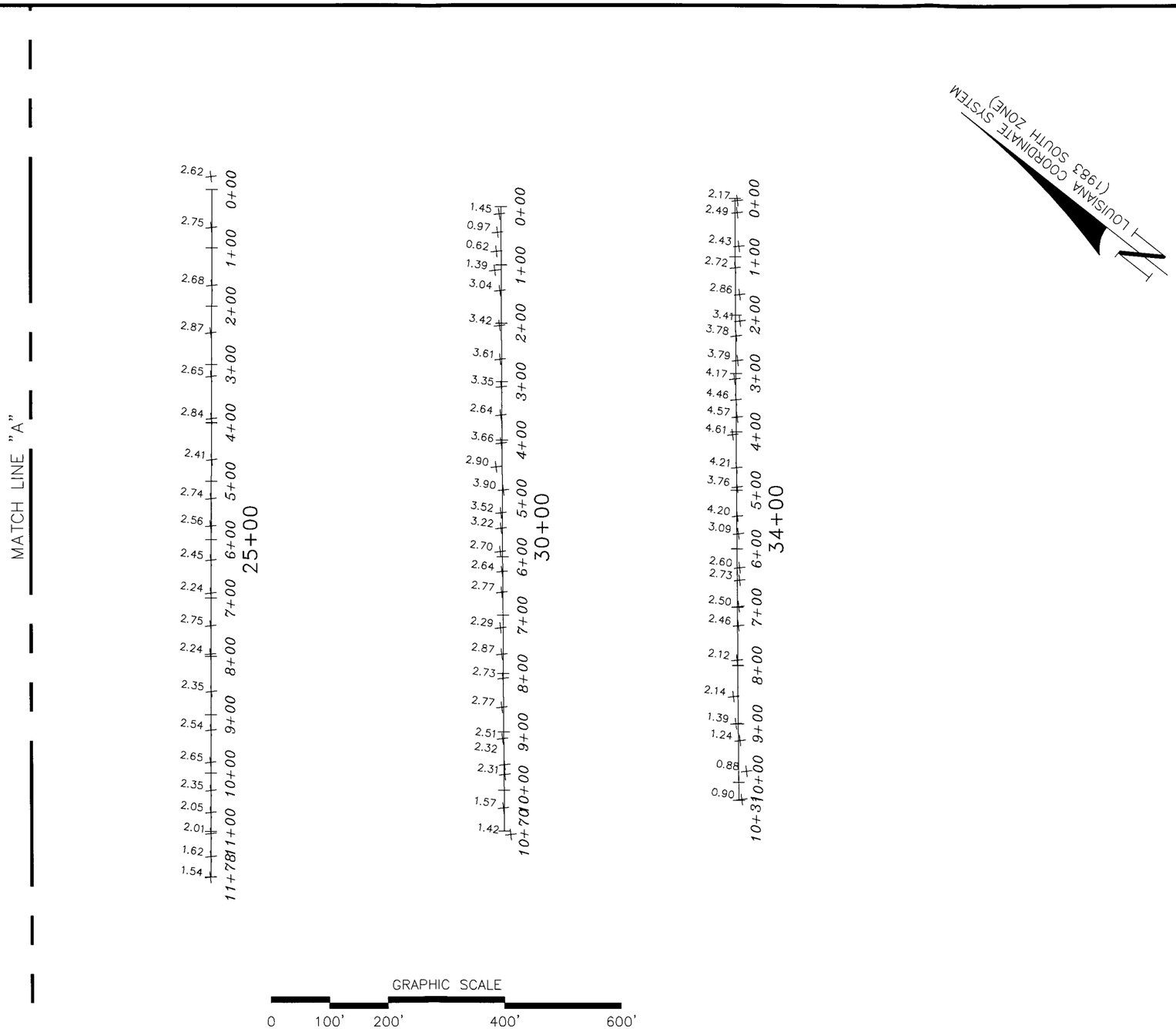
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

AT-02
PLAN VIEW 1
FOR
CASTILLE PASS DISPOSAL AREA

DRAWN BY:	CJG	SHEET:	1
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714

MPH CAD FILE: AT-02 CASTILLE PASS DISPOSAL AREA_PLAN 1.DWG

W:\DWG\9714\DIV Drawings\AT-02 CASTILLE PASS DISPOSAL AREA_PLAN 1.dwg PLOT DATE: 5/29/08 8:



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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

AT-02
PLAN VIEW 2
FOR
CASTILLE PASS DISPOSAL AREA

DRAWN BY:	CJG	SHEET:	2
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 CASTILLE PASS DISPOSAL AREA_PLAN 2.DWG			

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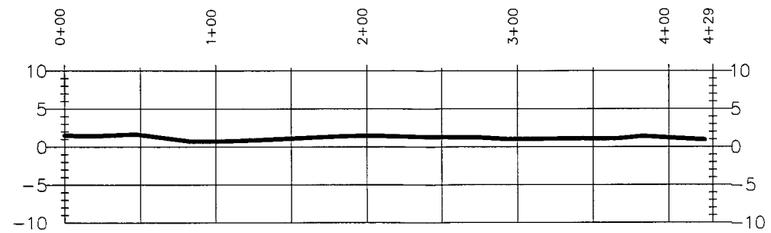
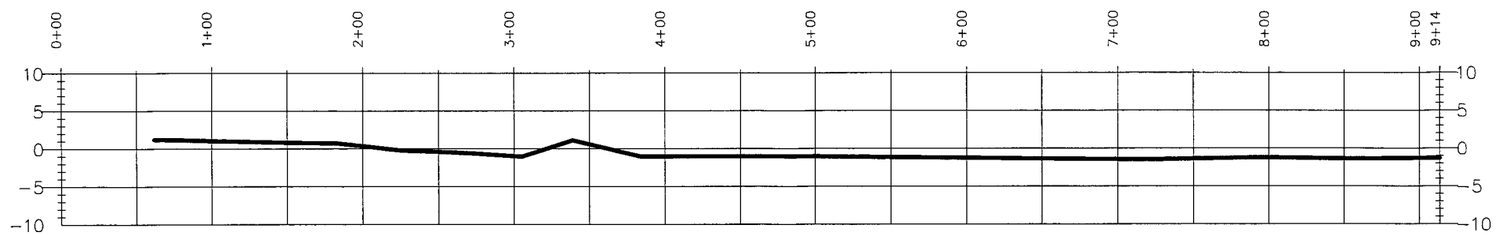
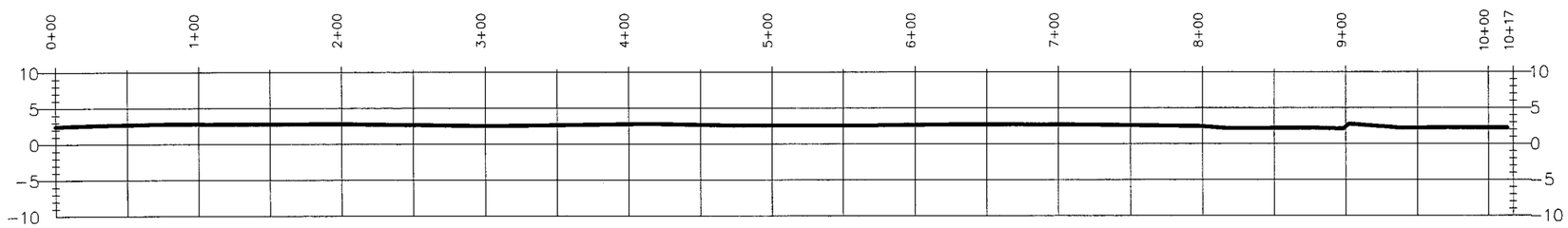


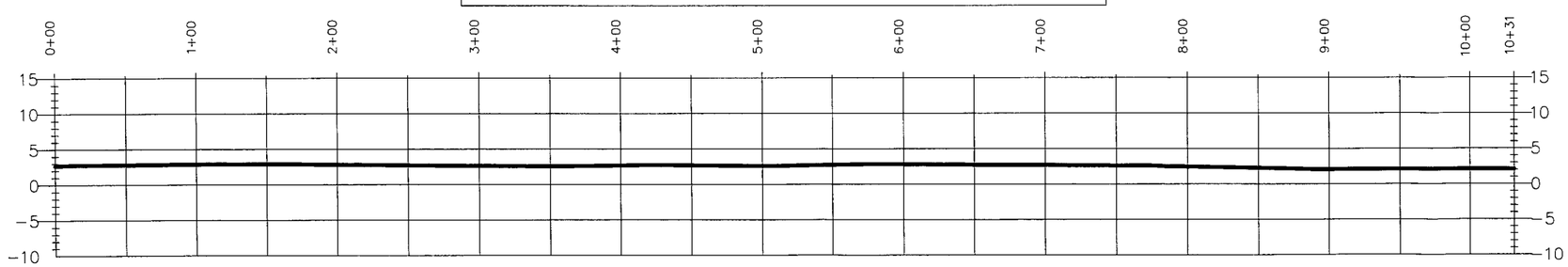
TRANSECT 0+00 (LOOKING SOUTHEASTERLY)



TRANSECT 5+00 (LOOKING SOUTHEASTERLY)



TRANSECT 10+00 (LOOKING SOUTHEASTERLY)



TRANSECT 15+00 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE
0 50' 100' 200' 300'
0 10' 20' 40' 60'
VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
CASTILLE PASS DISPOSAL AREA

DRAWN BY:	CJG	SHEET:	1
CHKD./APPD. BY:	DAB/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 CASTILLE PASS DISPOSAL AREA_PROFILE.DWG			

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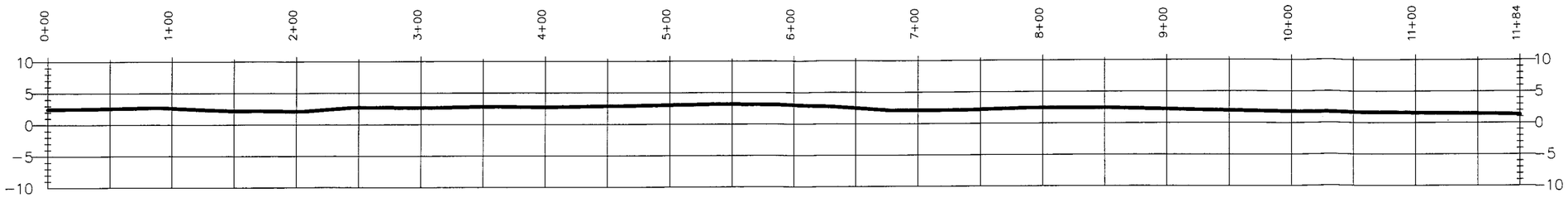

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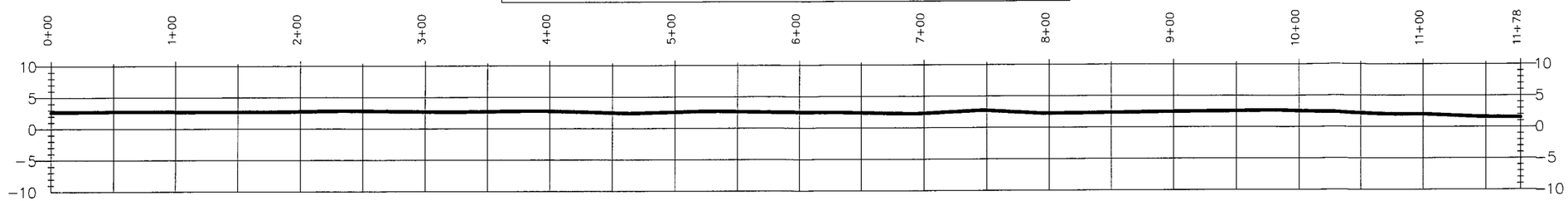

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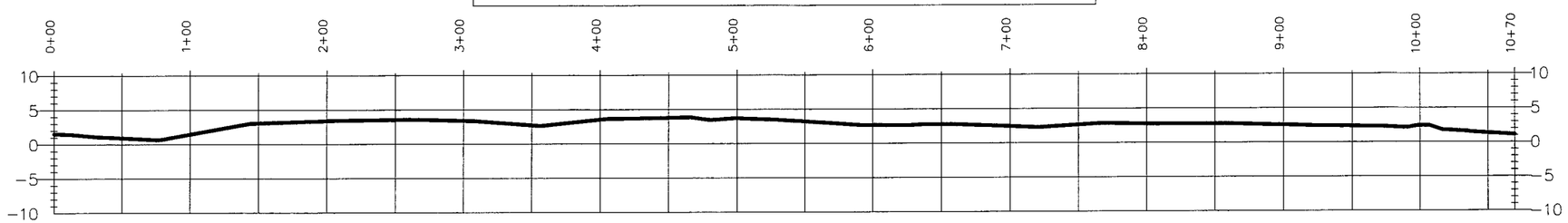
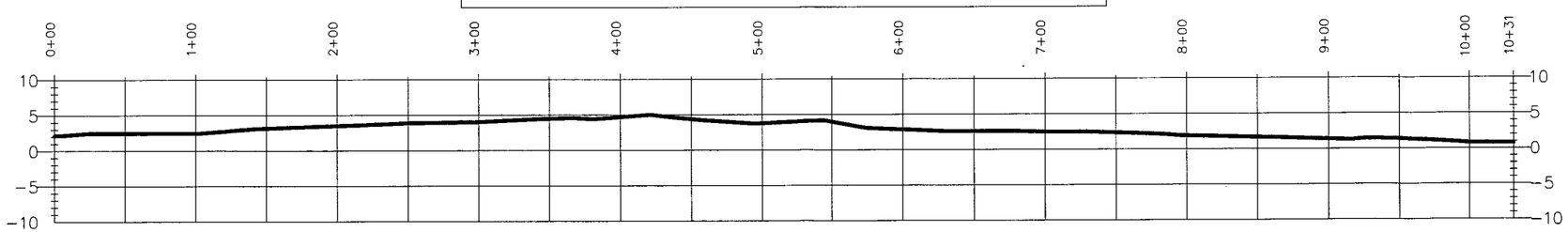


TRANSECT 30+00 (LOOKING SOUTHEASTERLY)



TRANSECT 34+00 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE

0 50' 100' 200' 300'

0 10' 20' 40' 60'

VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
CASTILLE PASS DISPOSAL AREA

DRAWN BY:	CJG	SHEET:	2
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 CASTILLE PASS DISPOSAL AREA_PROFILE.DWG			

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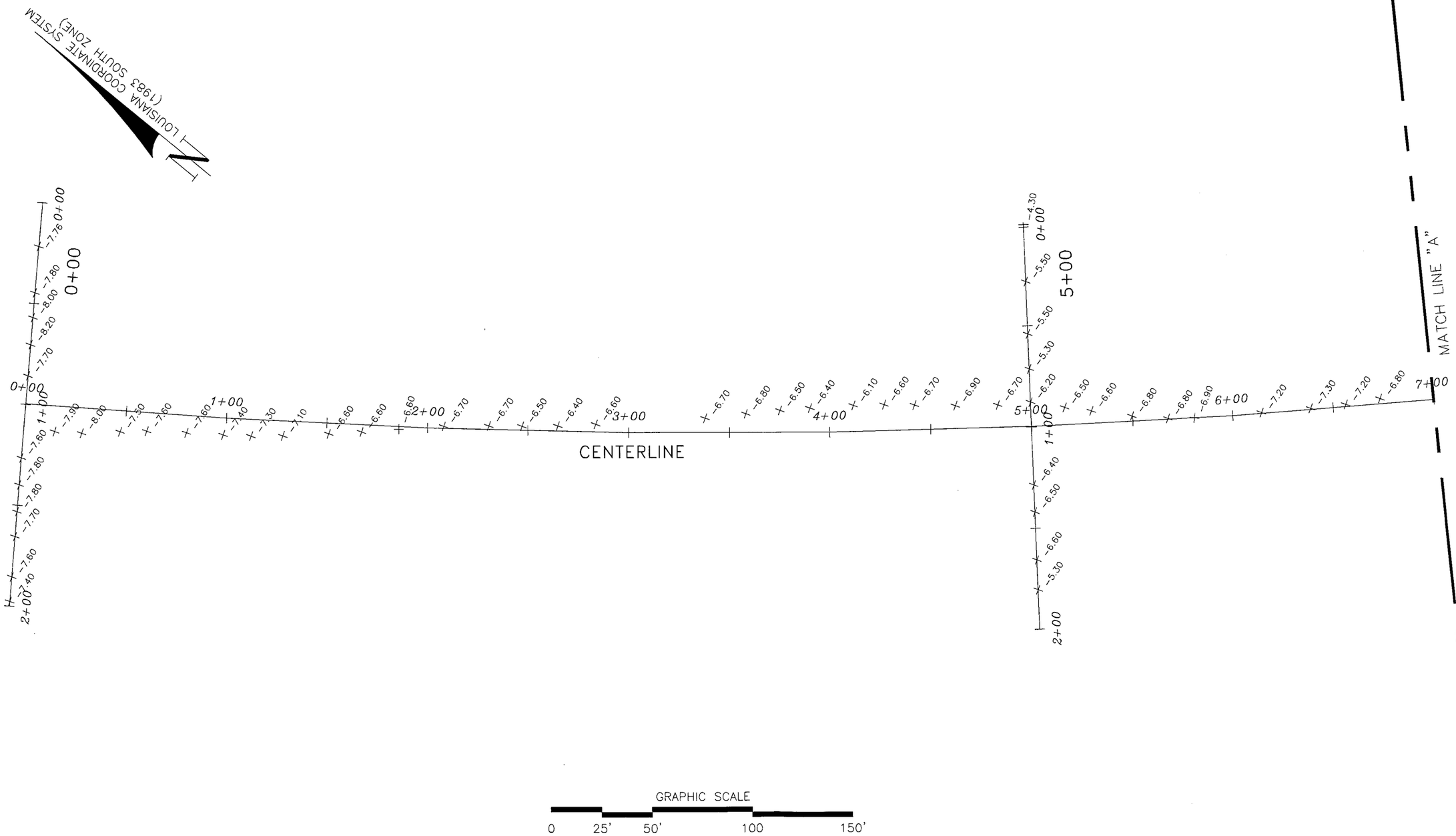

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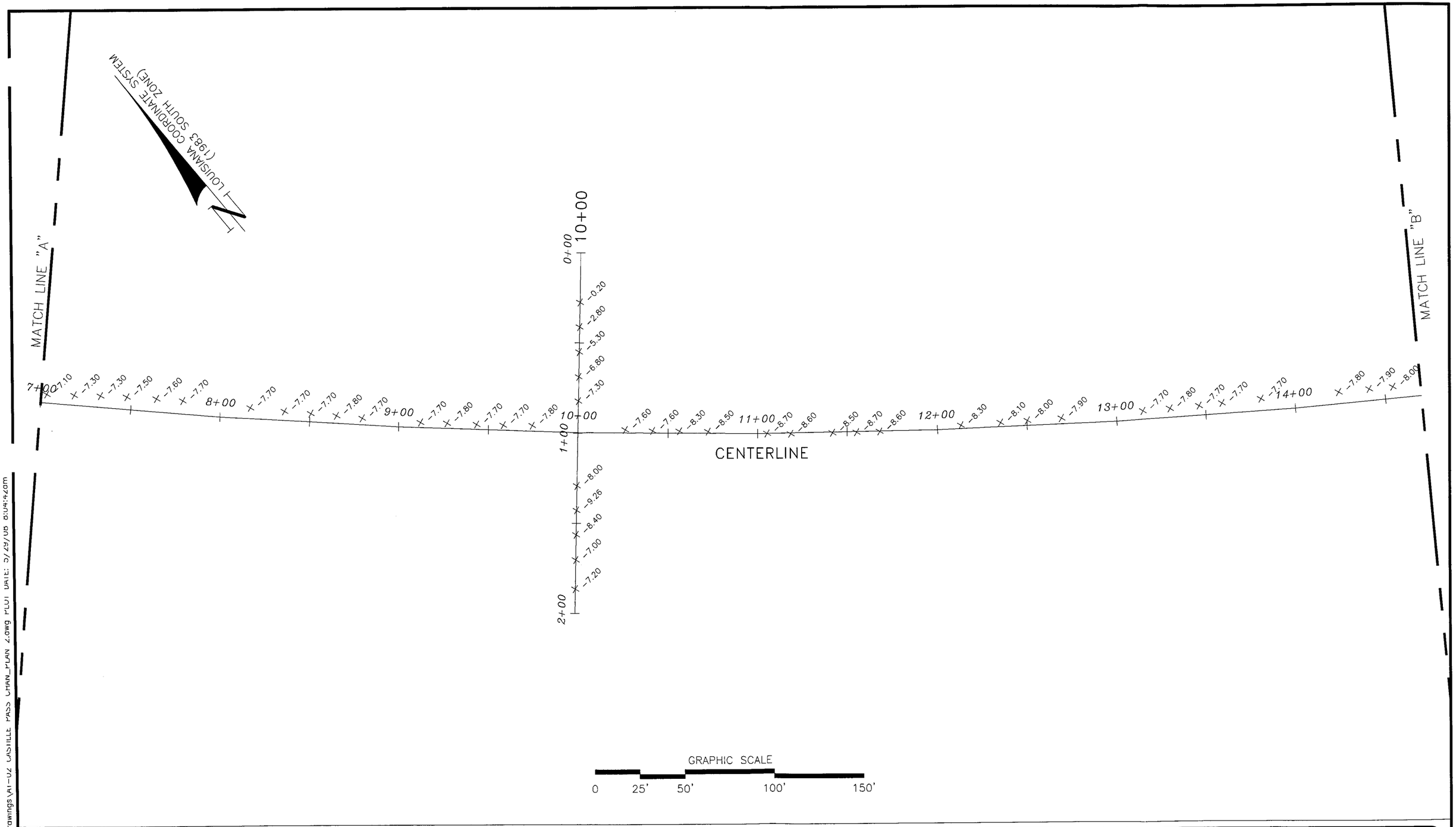
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

AT-02
PLAN VIEW 1
FOR
CASTILLE PASS CHANNEL

DRAWN BY:	CJG	SHEET:	1
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 CASTILLE PASS CHAN_PLAN 1.DWG			

W:\dwg\9714\cw drawings\AT-02 CASTILLE PASS CHAN_PLAN 1.dwg PLOT DATE: 5/29/08 8:03:04am



rawings\AT-02 CASTILLE PASS CHAN_PLAN 2.dwg PLOT DATE: 5/29/08 8:04:42am

w:\dwg\9714\civ

mph
Morris P. Hebert, Inc.
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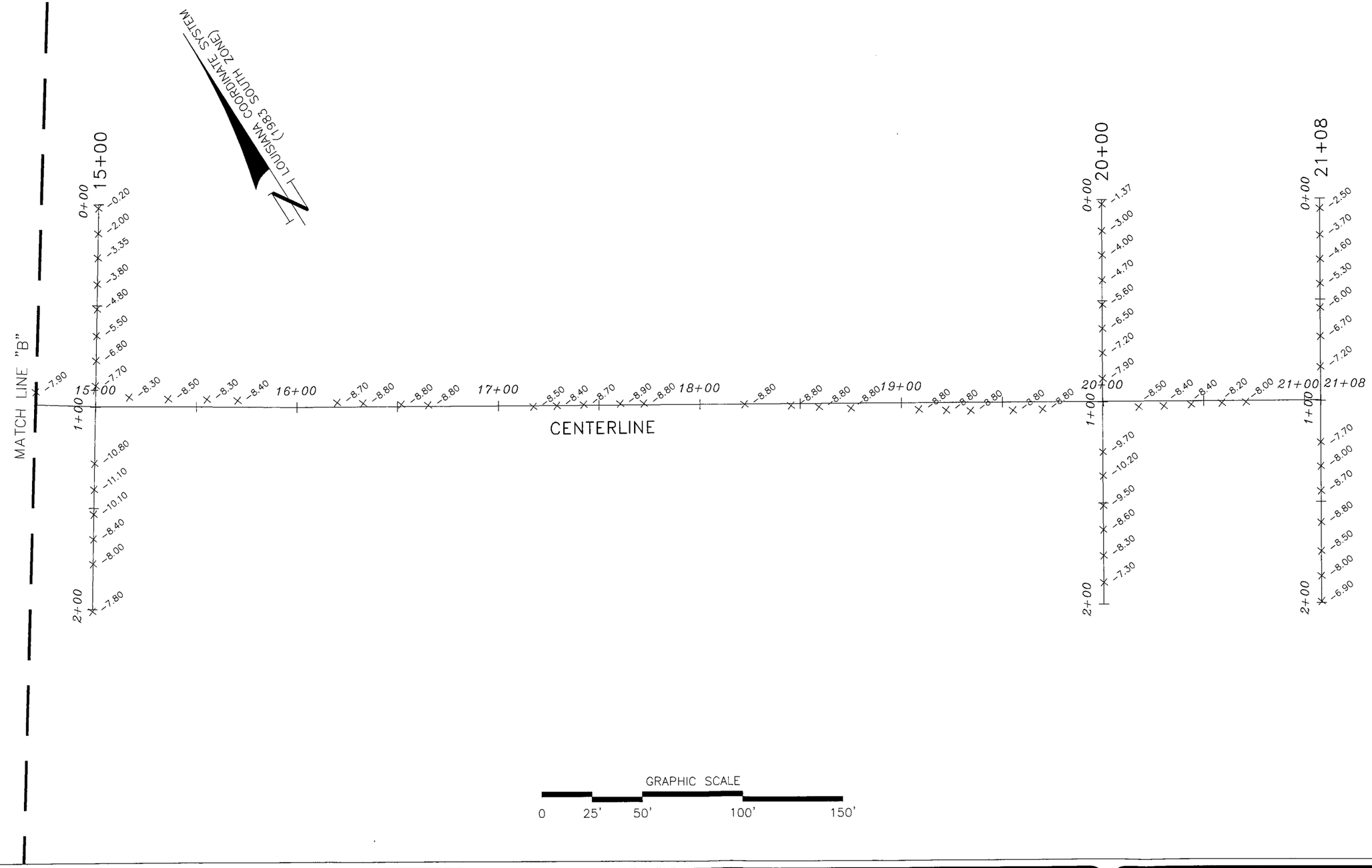
10101 SOUTHWEST FREEWAY • SUITE 400 • HOUSTON, TEXAS 77074 • (713) 219-1470

LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

AT-02
PLAN VIEW 2
FOR
CASTILLE PASS CHANNEL

DRAWN BY:	CJG	SHEET:	2
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 CASTILLE PASS CHAN_PLAN 2.DWG			



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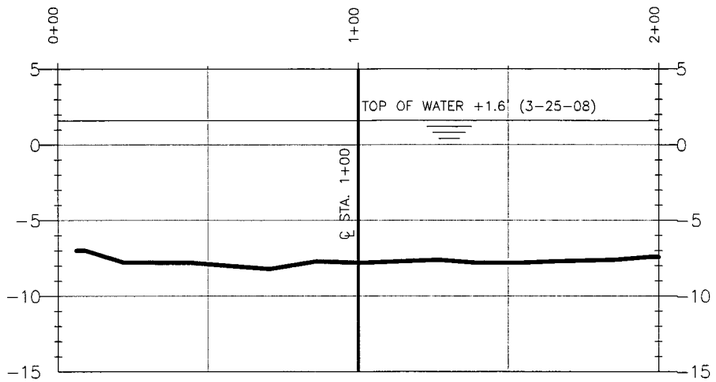
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

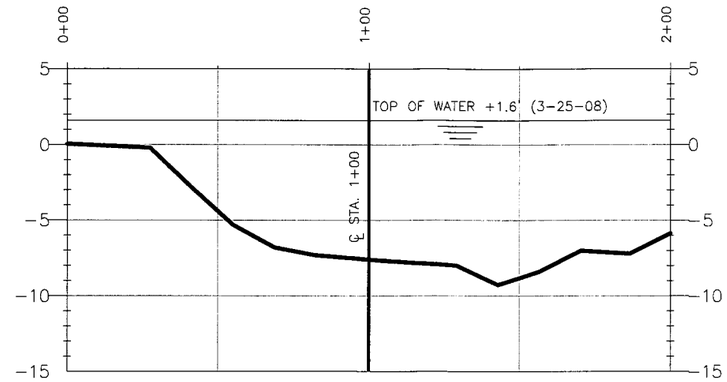
AT-02
PLAN VIEW 3
FOR
CASTILLE PASS CHANNEL

DRAWN BY:	CJG	SHEET:	3
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 CASTILLE PASS CHAN_PLAN 3.DWG			

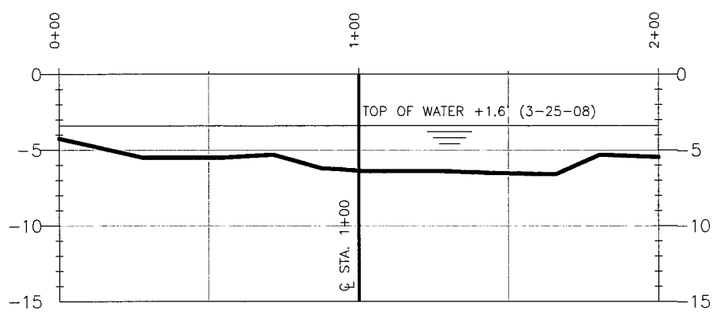
W:\dwg\9/14\CIV
Drawings\AT-02 CASTILLE PASS CHAN_PLAN 3.dwg PLOT DATE: 5/29/08 8:05:47am



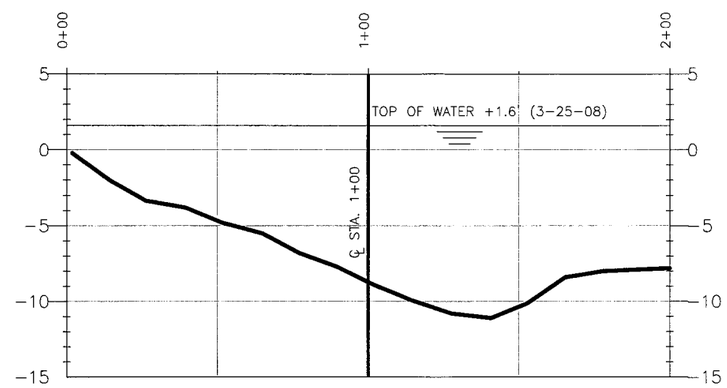
TRANSECT 0+00 (LOOKING SOUTHEASTERLY)



TRANSECT 10+00 (LOOKING SOUTHEASTERLY)



TRANSECT 5+00 (LOOKING SOUTHEASTERLY)



TRANSECT 15+00 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE
0 25' 50' 100' 150'
0 5' 10' 20' 30'
VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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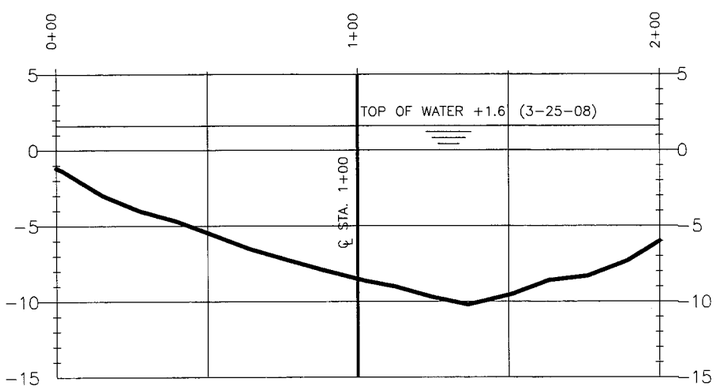
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

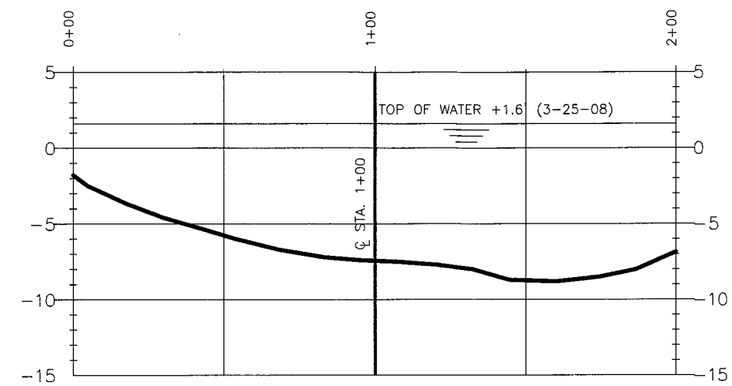
AT-02
TRANSECTS
FOR
CASTILLE PASS CHANNEL

DRAWN BY:	CJG	SHEET:	1
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 CASTILLE PASS CHAN_PROFILE.DWG			

W:\DWG\9714 drawings\AT-02 CASTILLE PASS CHAN_PROFILE.dwg PLOT DATE: 6/4/08 11:21:31



TRANSECT 20+00 (LOOKING SOUTHEASTERLY)



TRANSECT 21+08 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE
0 25' 50' 100' 150'
0 5' 10' 20' 30'
VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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10101 SOUTHWEST FREEWAY • SUITE 400 • HOUSTON, TEXAS 77074 • (713) 219-1470

LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
CASTILLE PASS CHANNEL

DRAWN BY:	CJG	SHEET:	2
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 CASTILLE PASS CHAN_PROFILE.DWG			

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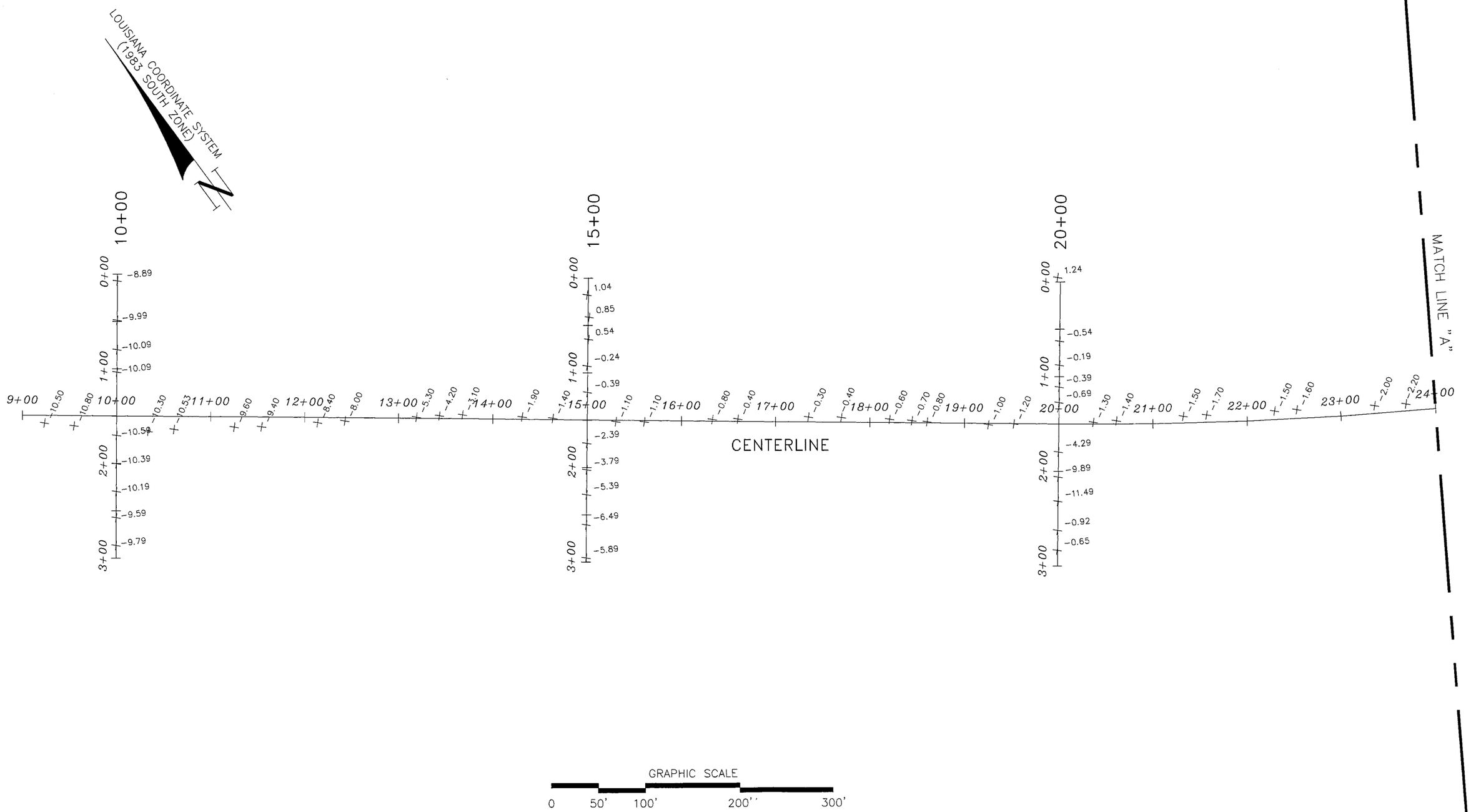

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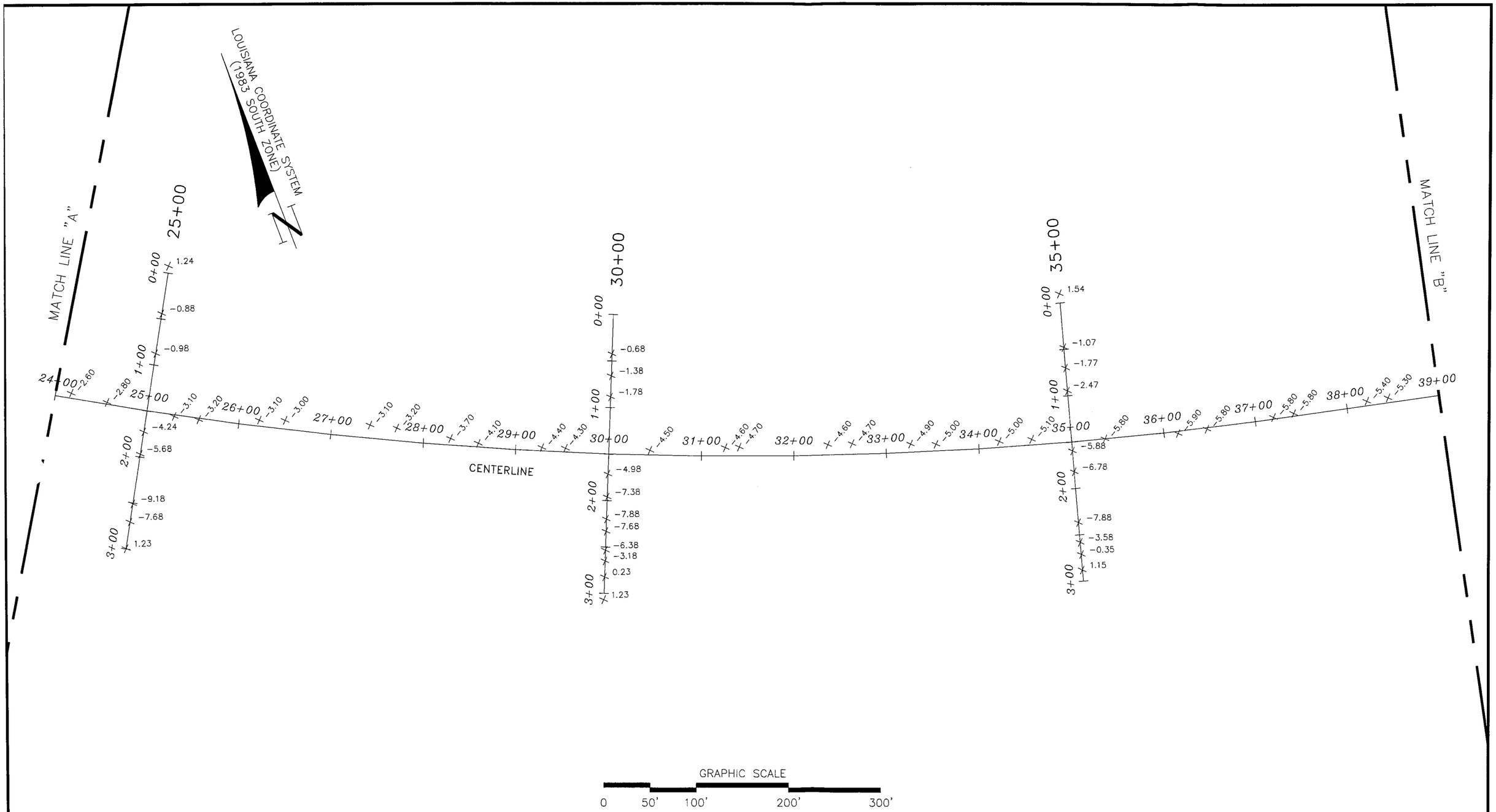
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

AT-02
PLAN VIEW 1
FOR
NATAL CHANNEL

DRAWN BY:	CJG	SHEET:	1
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 NATAL CHAN #1_PLAN 1.DWG			



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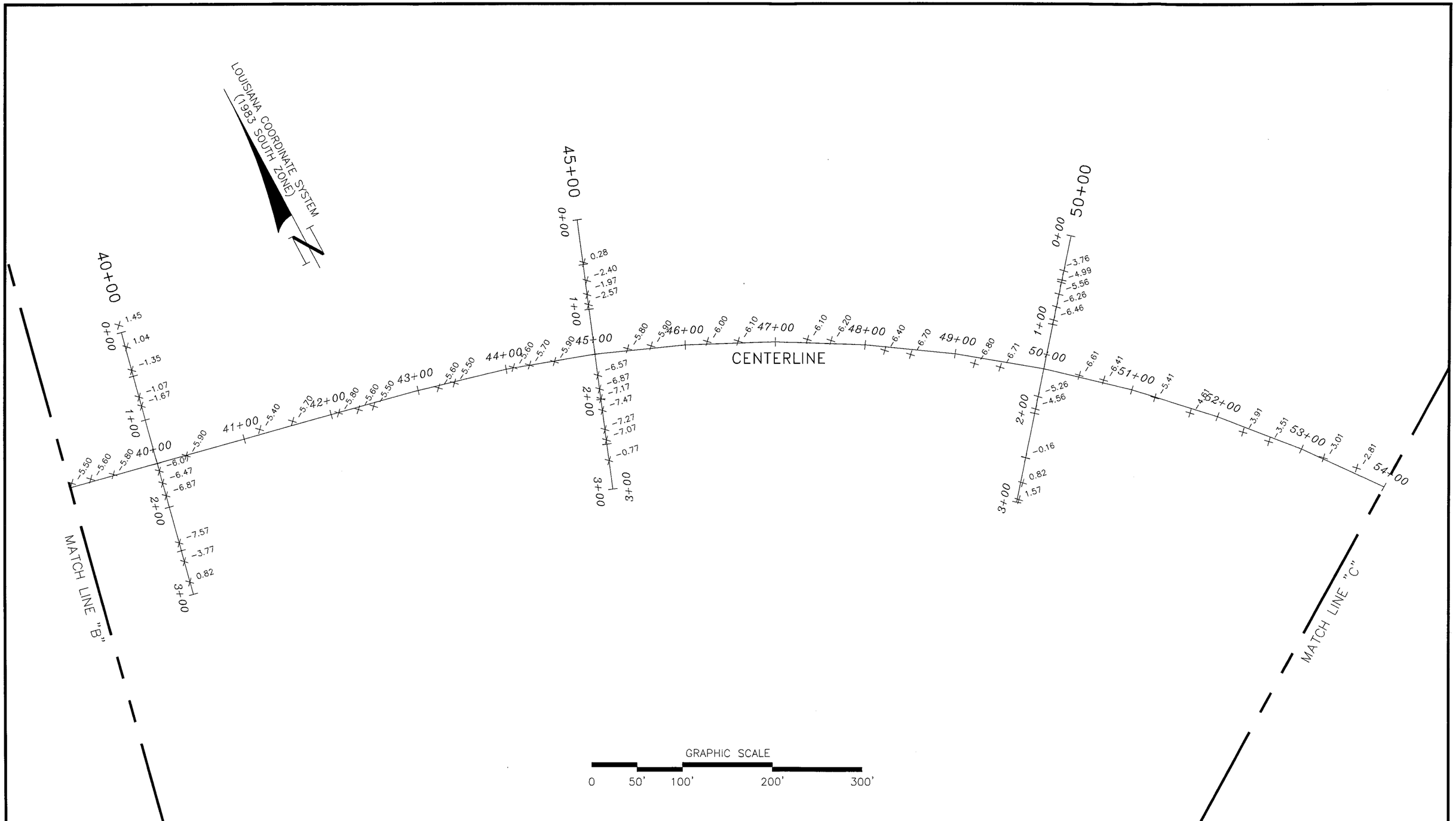
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

AT-02
PLAN VIEW 2
FOR
NATAL CHANNEL

DRAWN BY:	CJG	SHEET:	2
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE:	AT-02 NATAL CHAN #1_PLAN 2.DWG		



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10101 SOUTHWEST FREEWAY * SUITE 400 * HOUSTON, TEXAS 77074 * (713) 219-1470

LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

AT-02
PLAN VIEW 3
FOR
NATAL CHANNEL

DRAWN BY:	CJG	SHEET:	3
CHKD./APPD. BY:	DAB/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 NATAL CHAN #1_PLAN 3.DWG			

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

AT-02
PLAN VIEW 4
FOR
NATAL CHANNEL

DRAWN BY:	CJG	SHEET:	4
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 NATAL CHAN #1_PLAN 4.DWG			

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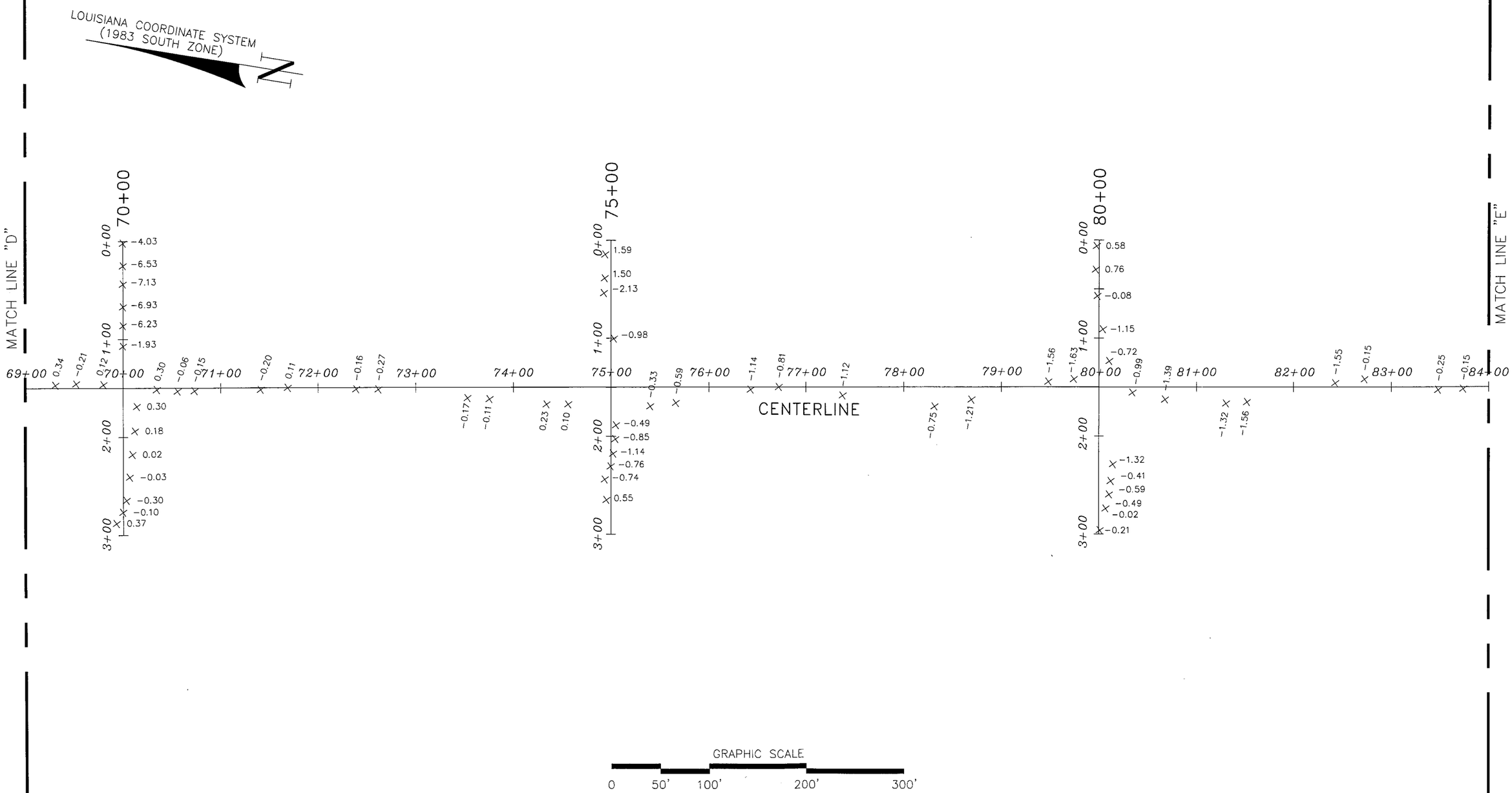

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

AT-02
PLAN VIEW 5
FOR
NATAL CHANNEL

DRAWN BY:	CJG	SHEET:	5
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 NATAL CHAN #1_PLAN 5.DWG			

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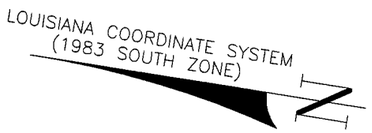

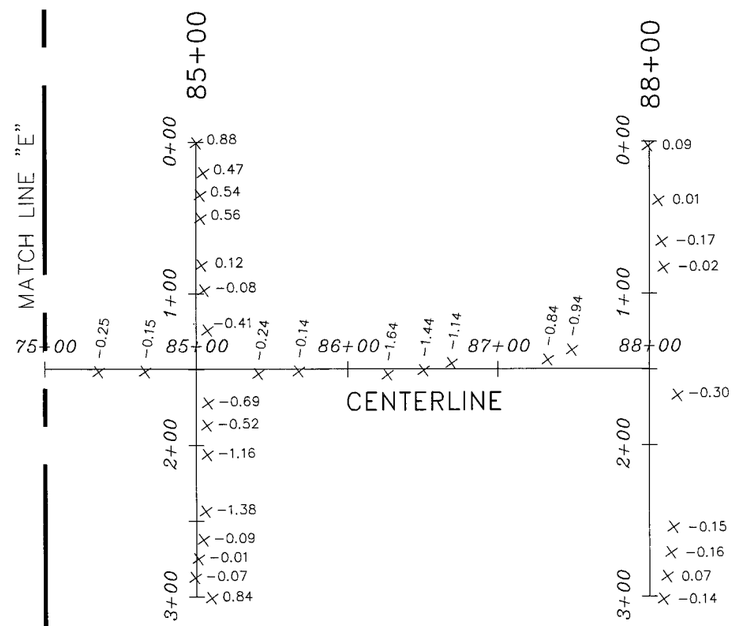

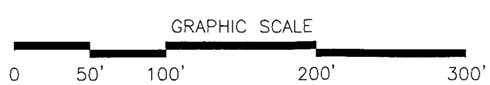

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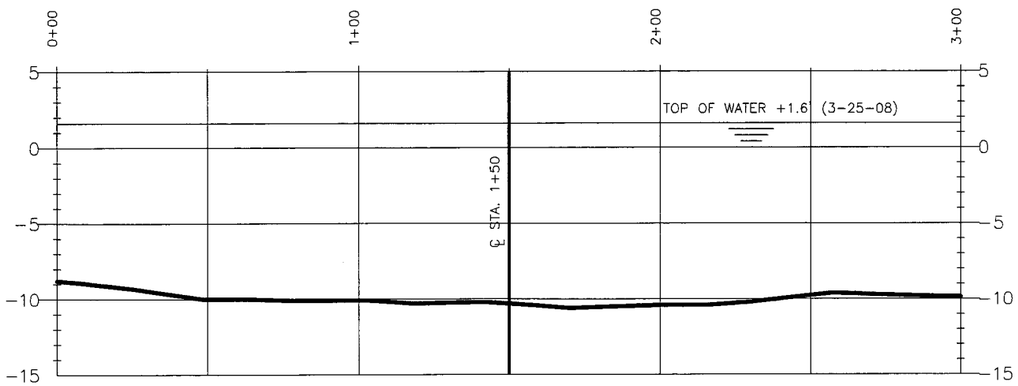
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

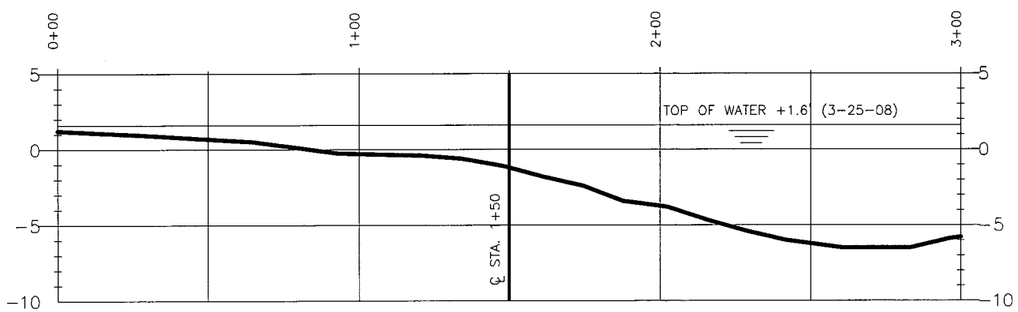
AT-02
PLAN VIEW 6
FOR
NATAL CHANNEL

DRAWN BY:	CJG	SHEET:	6
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 NATAL CHAN #1_PLAN 6.DWG			

W:\dwg\14\D14\drawings\AT-02 NATAL CHAN #1_PLAN 6.dwg PLOT DATE: 5/27/08 8:10:41am



TRANSECT 10+00 (LOOKING SOUTHEASTERLY)



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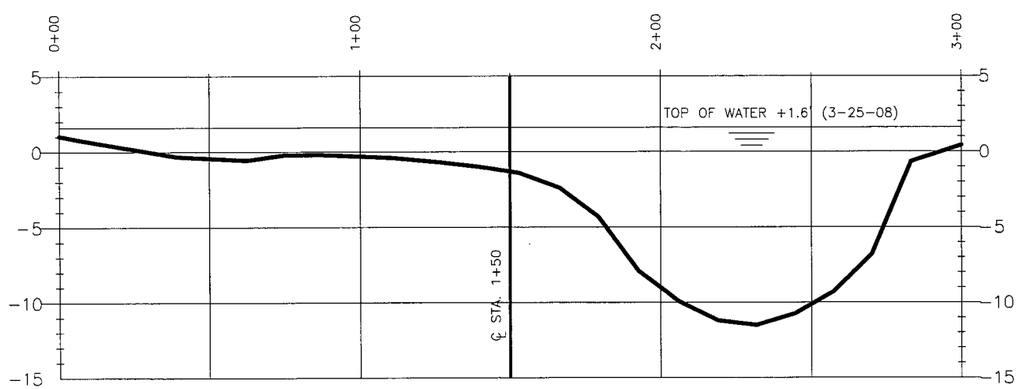

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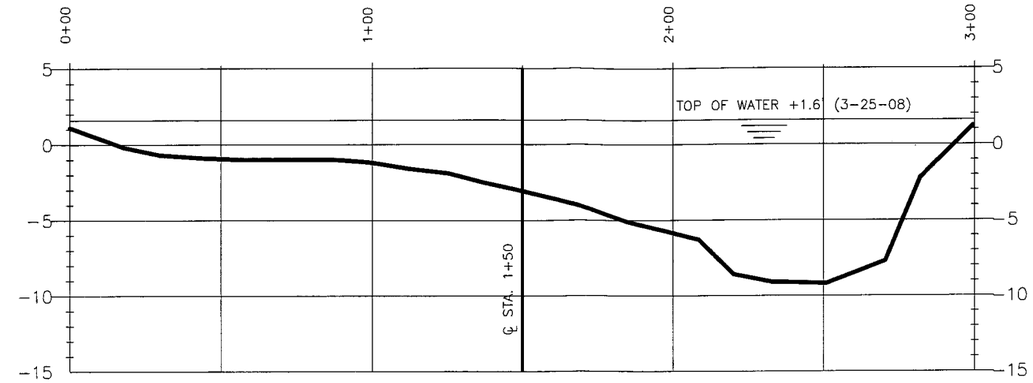

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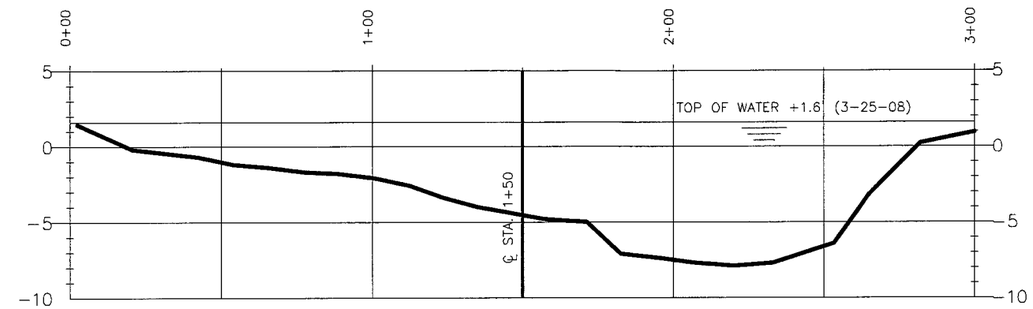

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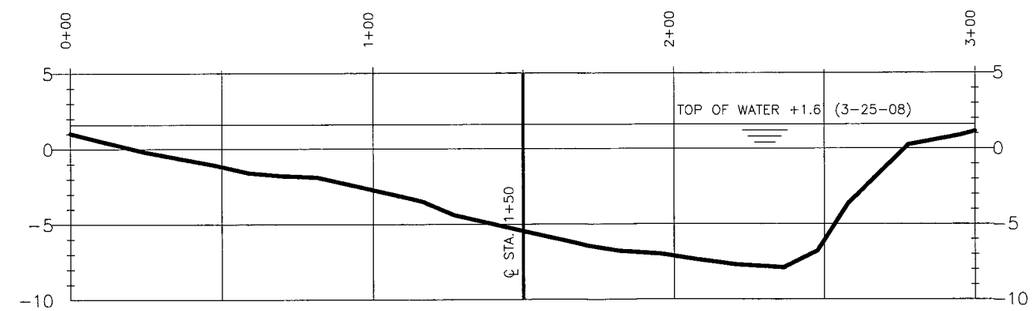

TRANSECT 35+00 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE

0 25' 50' 100' 150'

0 5' 10' 20' 30'

VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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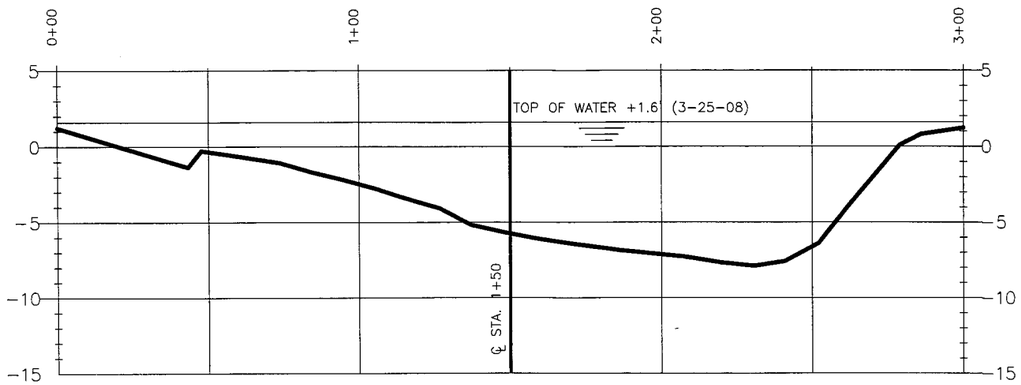
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
NATAL CHANNEL No. 1

DRAWN BY:	CJG	SHEET:	1
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 NATAL CHAN #1_PROFILE.DWG			

W:\DWG\97\14\DRAWINGS\AT-02 NATAL CHAN #1_PROFILE.DWG PLOT DATE: 6/4/08 10:24:32am



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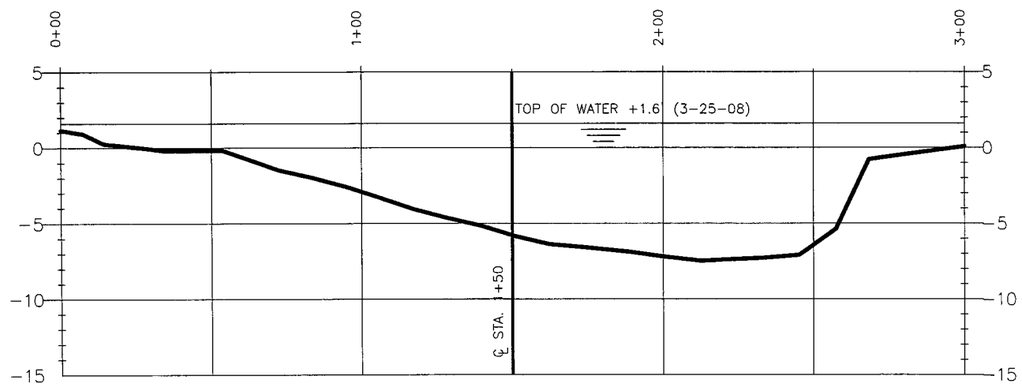

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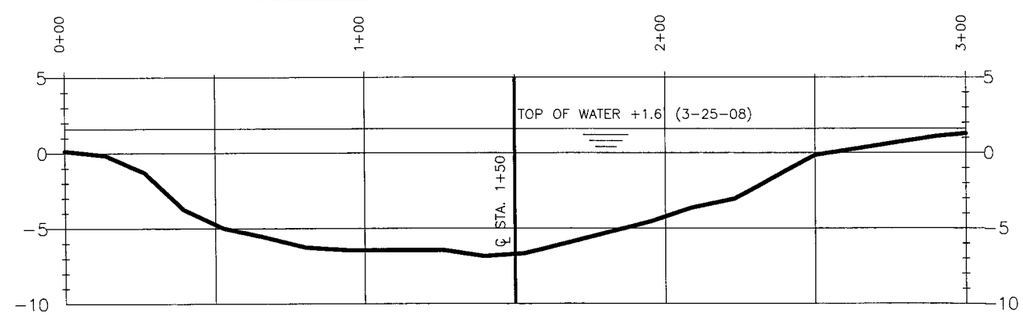

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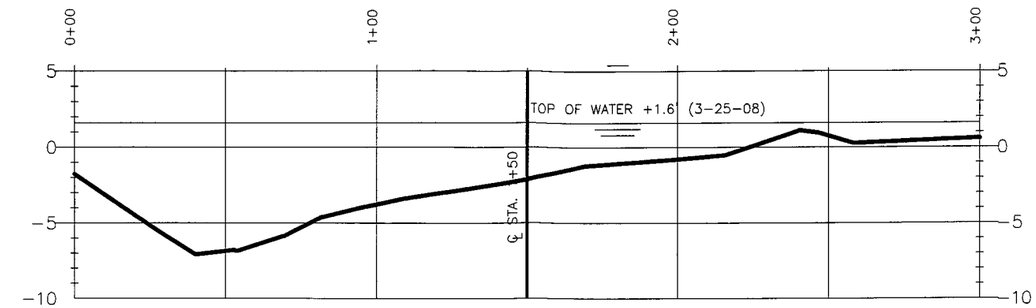

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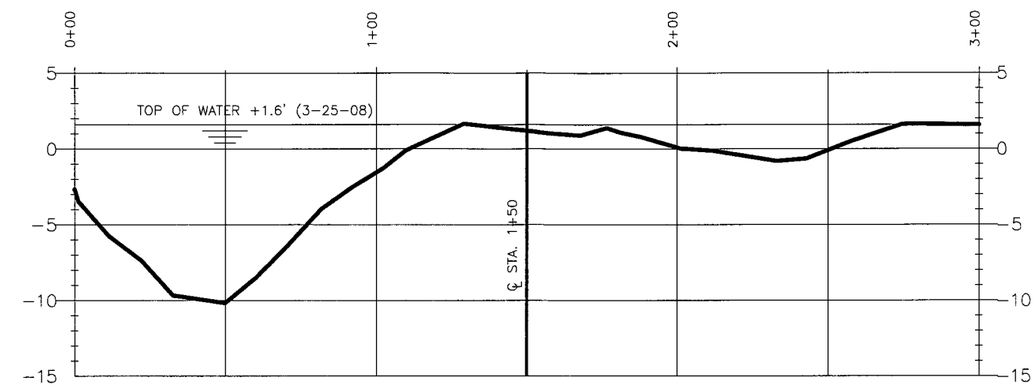

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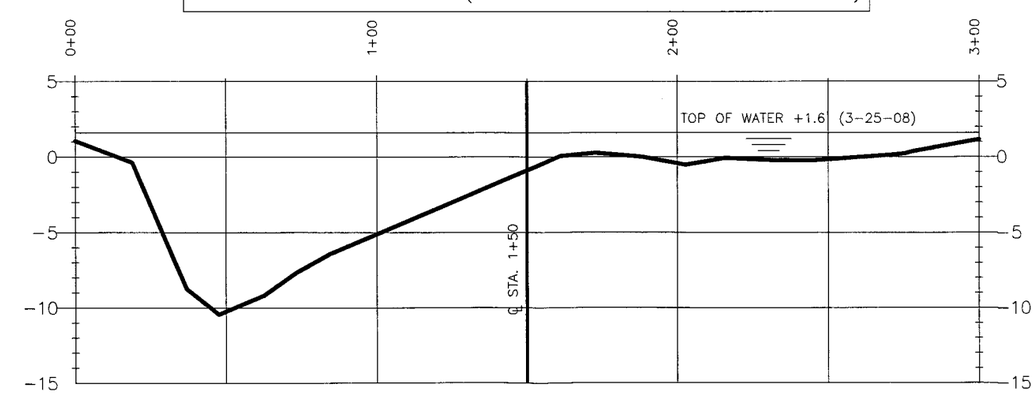

TRANSECT 65+00 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE

0 25' 50' 100' 150'

0 5' 10' 20' 30'

VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
NATAL CHANNEL No. 1

DRAWN BY:	CJG	SHEET:	2
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 NATAL CHAN #1_PROFILE.DWG			

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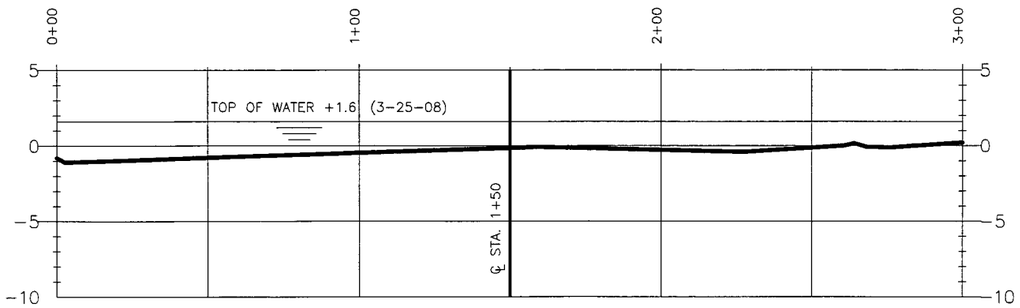

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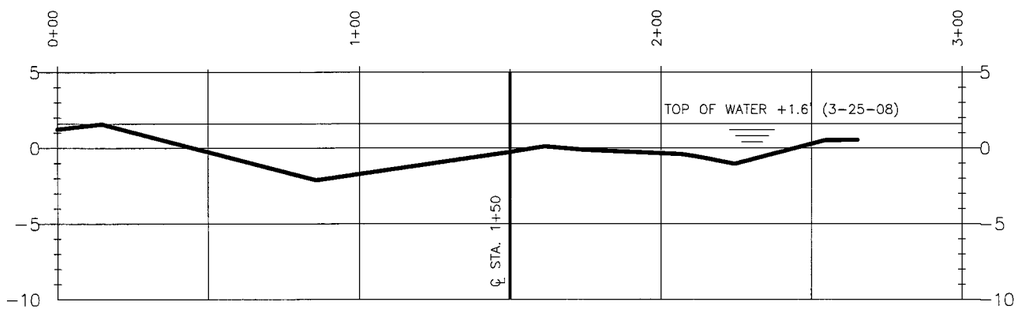

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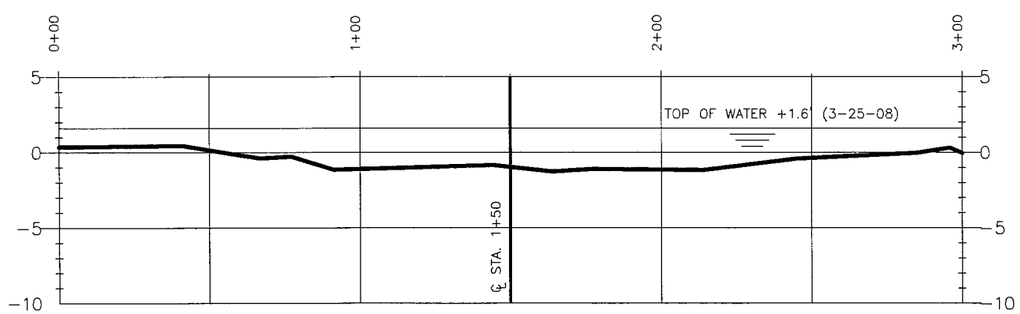

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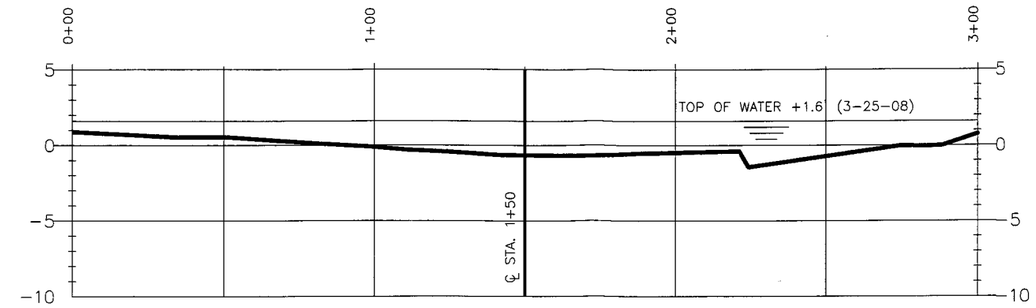

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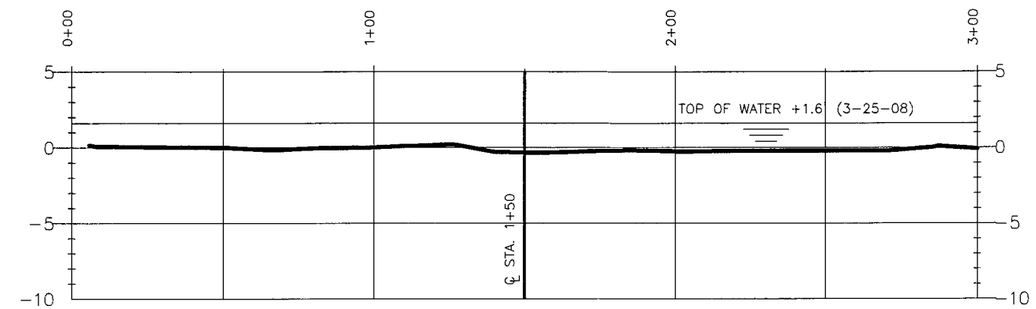

TRANSECT 88+00 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE

0 25' 50' 100' 150'

0 5' 10' 20' 30'

VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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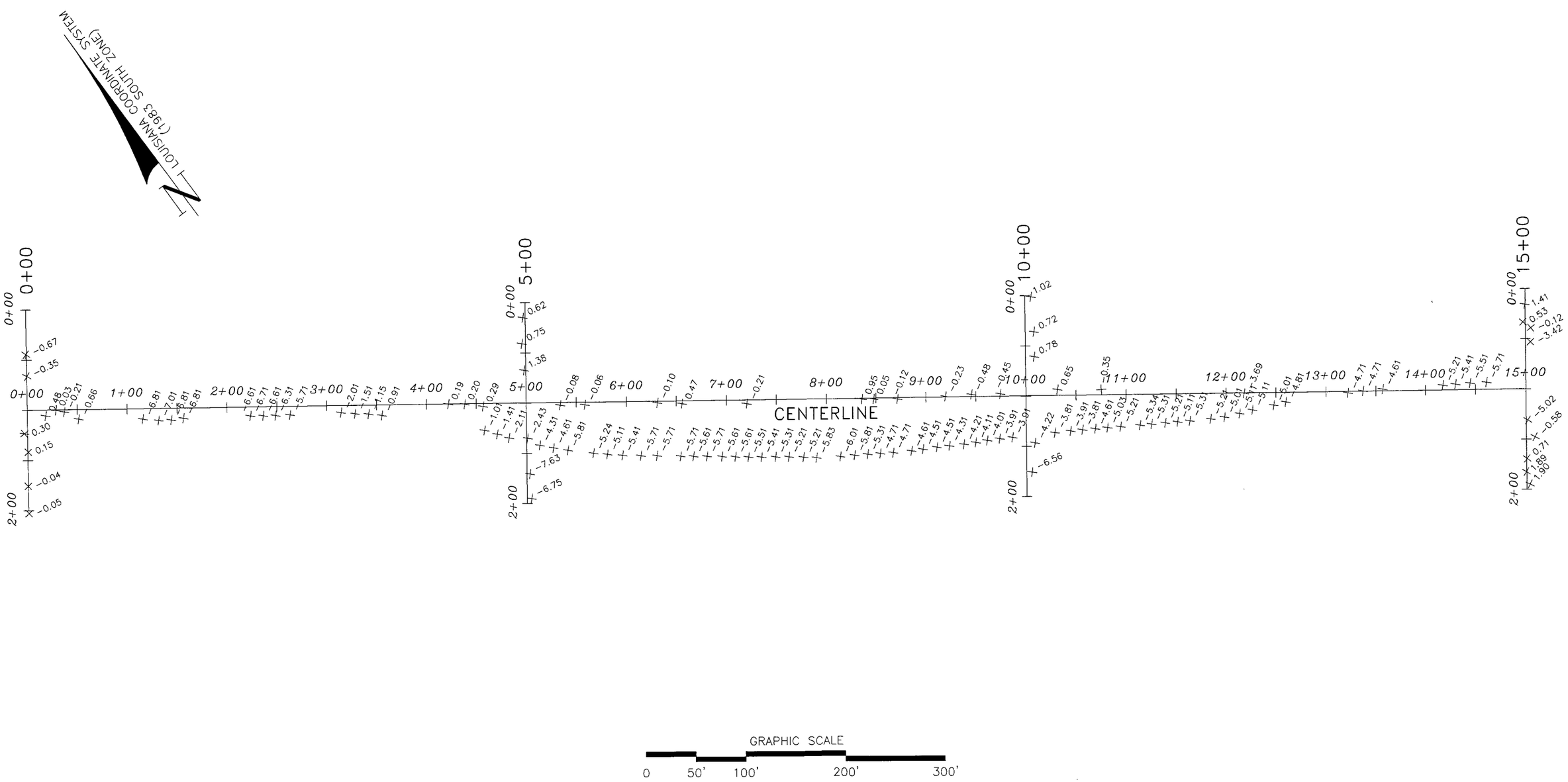
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
NATAL CHANNEL No. 1

DRAWN BY:	CJG	SHEET:	3
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 NATAL CHAN #1_PROFILE.DWG			

W:\dwg\9714\Cn drawings\AT-02 NATAL CHAN #1_PROFILE.dwg PLOT DATE: 6/4/08 10:24:41am



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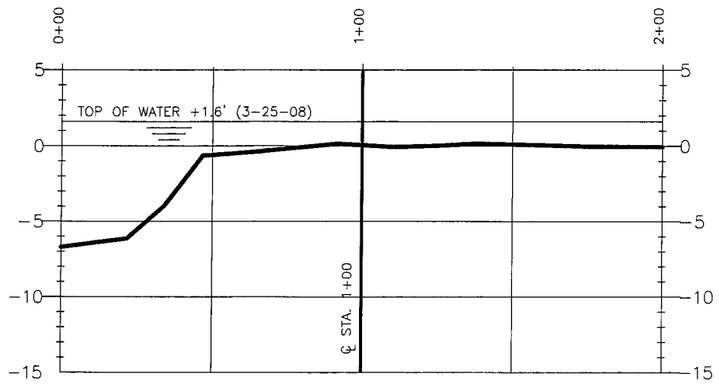
LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

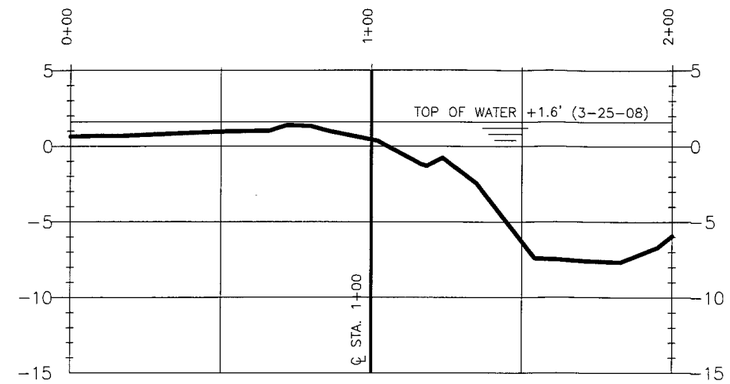
AT-02
PLAN VIEW 7
FOR
NATAL CHANNEL

DRAWN BY:	CJG	SHEET:	7
CHKD./APPD. BY:	DAB/JBN	SCALE:	AS SHOWN
UPDATED BY:		DATE:	5/26/08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 NATAL CHAN #2_PLAN 1.DWG			

W:\dwg\AT14\Drawings\AT-02 NATAL CHAN #2_PLAN 1.dwg PLOT DATE: 5/29/08 8:18:24am



TRANSECT 0+00 (LOOKING SOUTHEASTERLY)



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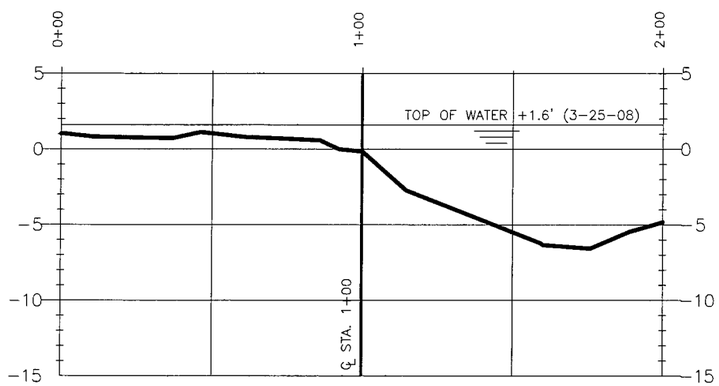

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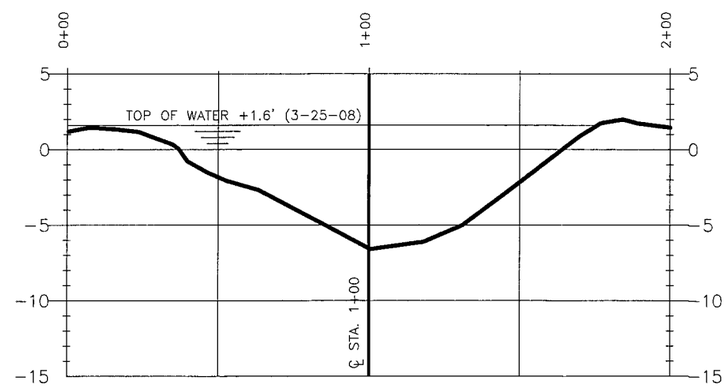

TRANSECT 15+00 (LOOKING SOUTHEASTERLY)

HORIZONTAL GRAPHIC SCALE
0 25' 50' 100' 150'
0 5' 10' 20' 30'
VERTICAL GRAPHIC SCALE

NOTE: VERTICAL DATUM IN NAVD 88

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES/ COASTAL RESTORATION DIVISION

AT-02
TRANSECTS
FOR
NATAL CHANNEL No. 2

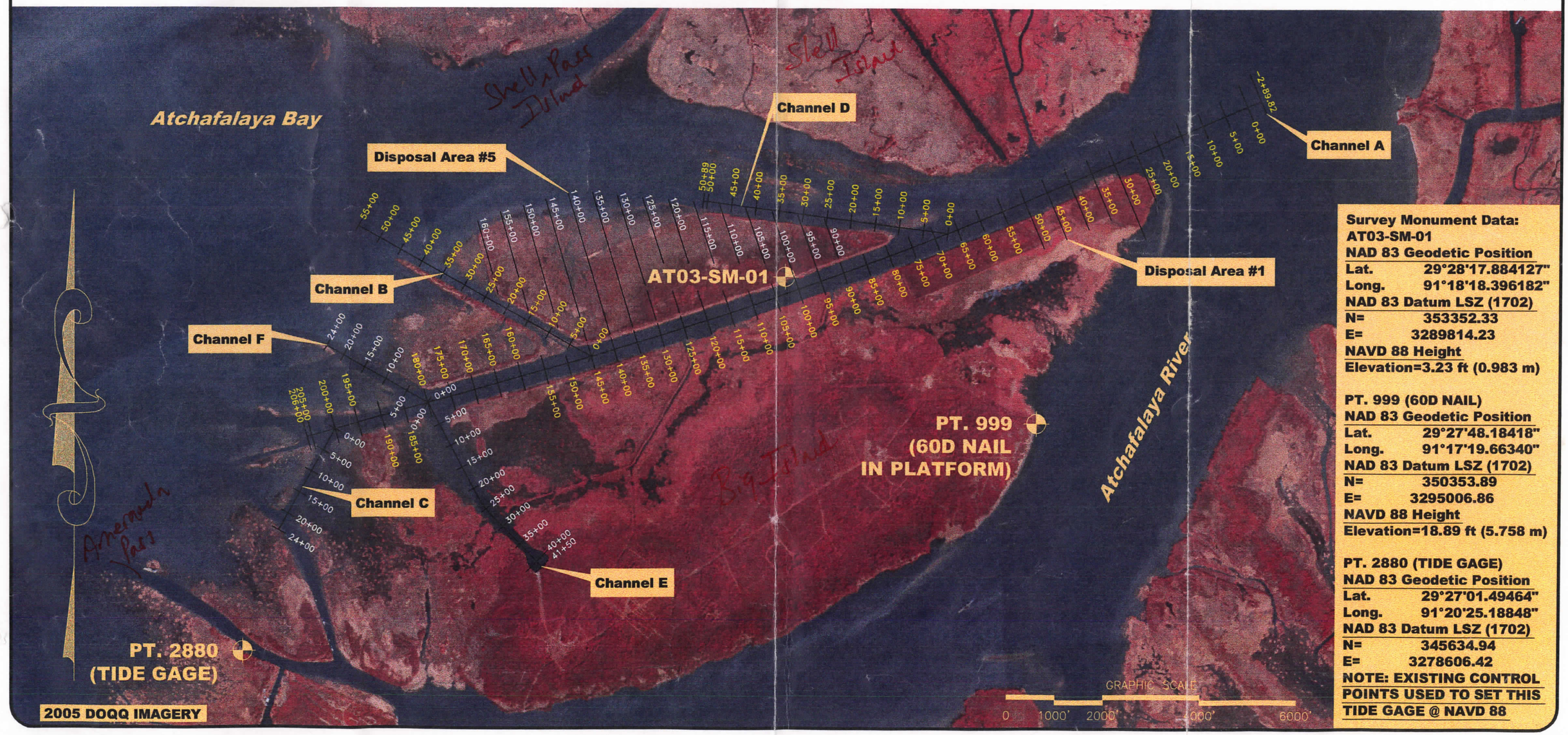
DRAWN BY:	CJG	SHEET:	1
CHKD./APPD. BY:	AJG/JBN	SCALE:	SHOWN
UPDATED BY:		DATE:	5-19-08
DATA BASE:	9714	JOB NO.	9714
MPH CAD FILE: AT-02 NATAL CHAN #2_PROFILE.DWG			

W:\dwg\9714\drawings\AT-02 NATAL CHAN #2_PROFILE.dwg PLOT DATE: 6/4/08 10:26:09am

STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

TOPOGRAPHIC AND BATHYMETRIC SURVEY
BIG ISLAND MINING (AT-03)

05/15/08



Survey Monument Data:
AT03-SM-01
NAD 83 Geodetic Position

Lat.	29°28'17.884127"
Long.	91°18'18.396182"

NAD 83 Datum LSZ (1702)

N=	353352.33
E=	3289814.23

NAVD 88 Height
Elevation=3.23 ft (0.983 m)

PT. 999 (60D NAIL)
NAD 83 Geodetic Position

Lat.	29°27'48.18418"
Long.	91°17'19.66340"

NAD 83 Datum LSZ (1702)

N=	350353.89
E=	3295006.86

NAVD 88 Height
Elevation=18.89 ft (5.758 m)

PT. 2880 (TIDE GAGE)
NAD 83 Geodetic Position

Lat.	29°27'01.49464"
Long.	91°20'25.18848"

NAD 83 Datum LSZ (1702)

N=	345634.94
E=	3278606.42

NOTE: EXISTING CONTROL POINTS USED TO SET THIS TIDE GAGE @ NAVD 88