

**Is the “Jug Wreck” the Ivanhoe?**

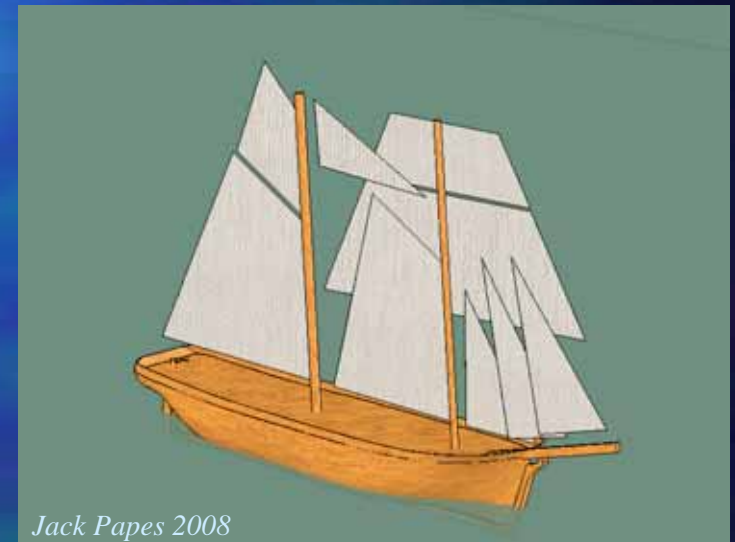
**PowerPoint presentation by  
Jack Papes**

**April 14, 2008 for MAST**

# SURVEY OF THE IVANHOE?

	Jug Wreck	Ivanhoe
Length	109 ft	110 ft
Width	25 ft	25'-9"
Depth	?	9'-3-1/4"
Steering	Tiller/Centerboard	?
Mast	?	2
Head	?	Scroll
Rig	?	"Schooner" (Brigantine?)
Cargo	Coal, Jug -- Lyons Pottery Co. NY (1825-1902)	Coal, Barrels
Location	2 miles west of Avon Point, 3.4 miles North of Shore	Last seen "five miles above (west) of Avon Point, 3 miles from shore"
Water Depth	55 ft	60 ft

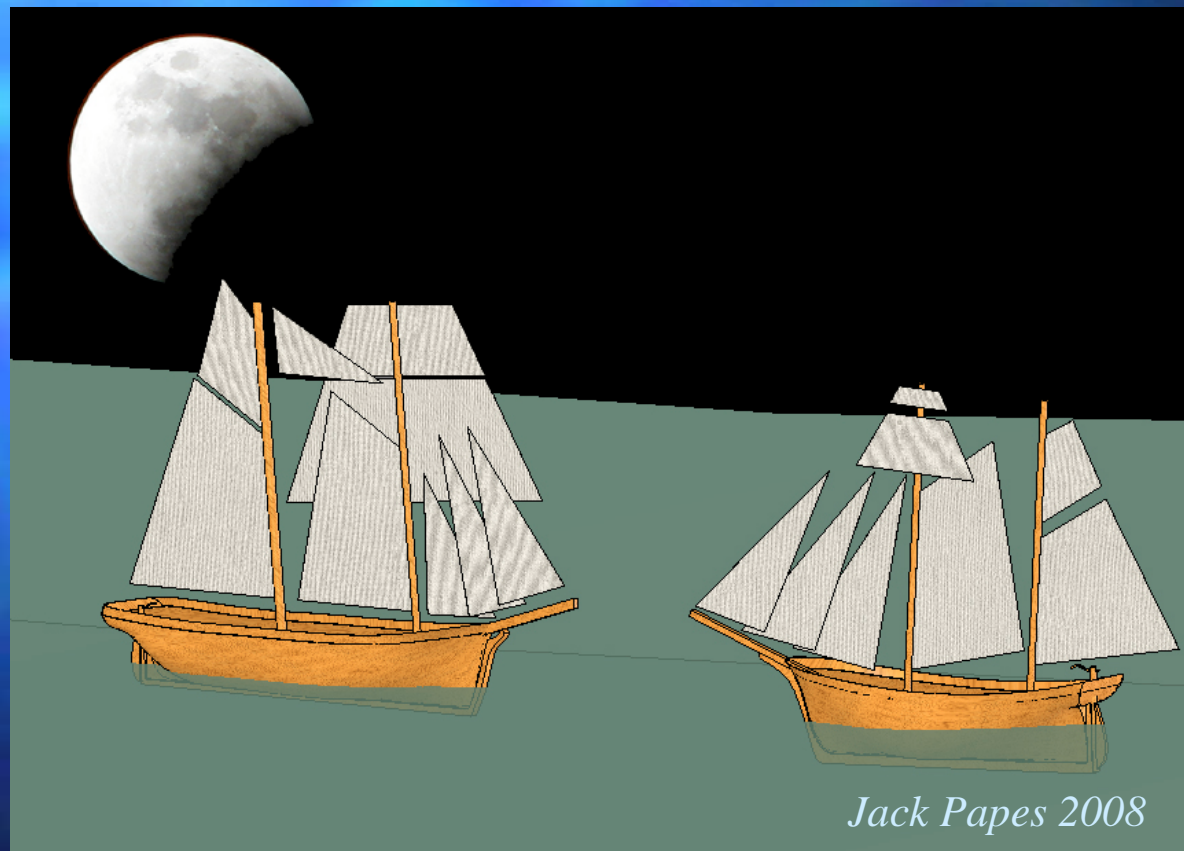
(Port of Buffalo: Enrollment, 28, 30 April 1855)  
 (Buffalo Morning Express, 8 October 1855)



*Jack Papes 2008*

Sail plan based upon period schooners described in Merchant Sailing Vessels 1850-1875, MacGregor, David R.

# Collision between the IVANHOE and the ARAB



*Jack Papes 2008*

# IVANHOE

**BUILT:** 1848 IRVING, NY

**OWNER** (at loss):

M. Galligan of Buffalo, NY

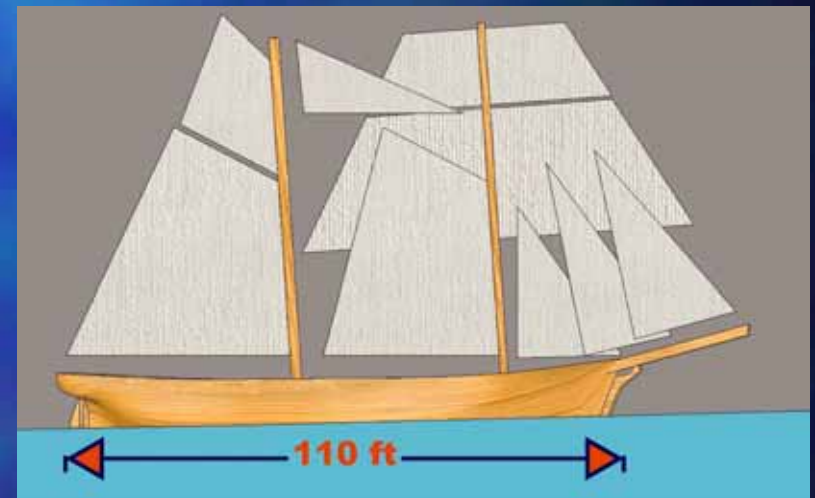
**Dims:** 110' x 25'-9" x 9'-3"

**Tonnage:** 237

**Loss:** Collided with the schooner Arab October 4, 1855

(Port of Buffalo: Enrollment, 30.1, 26 April 1848)

(Port of Buffalo: Enrollment, 28, 30 April 1855)



Hull rendering based upon the Harvest Queen built at New York 1860

(Merchant Sailing Vessels 1850-1875, MacGregor, David R. p88)

# Arab

**BUILT:** 1854 Buffalo, NY

**OWNER:** Parker, Scoville, & Brown  
of Buffalo. Stevens of Milan, OH

**Dims:** 101' x 23'-6 x 9'-6"

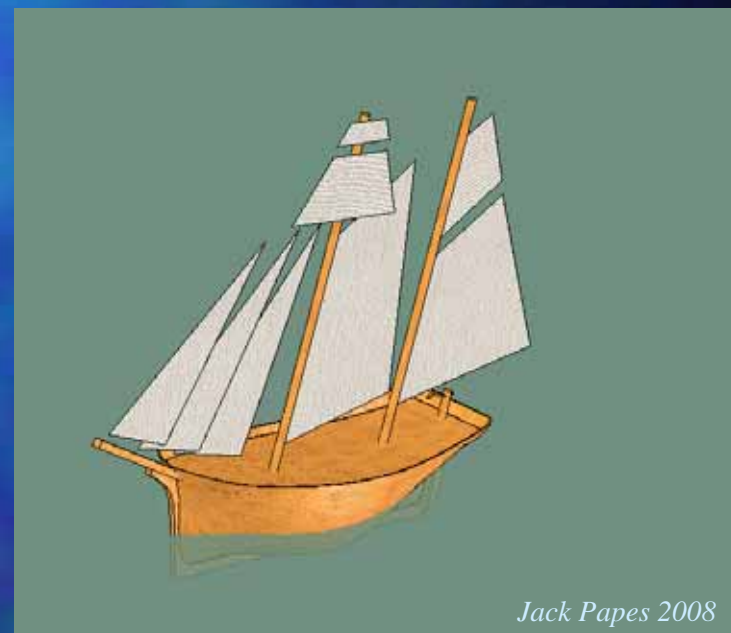
**Tonnage:** 204

**Loss:** Floundered in Storm on Lake  
Michigan near Grand Haven, MI  
November 13, 1883

(Buffalo Daily Republic, 19 April 1854)

(BGSU , Historical Collections of the Great Lakes)

(Daily British Whig, Kingston, 14 Nov 1883 p3)



Rendering based upon period schooners described  
in *Merchant Sailing Vessels 1850-1875*,  
MacGregor, David R.

# Great Lakes

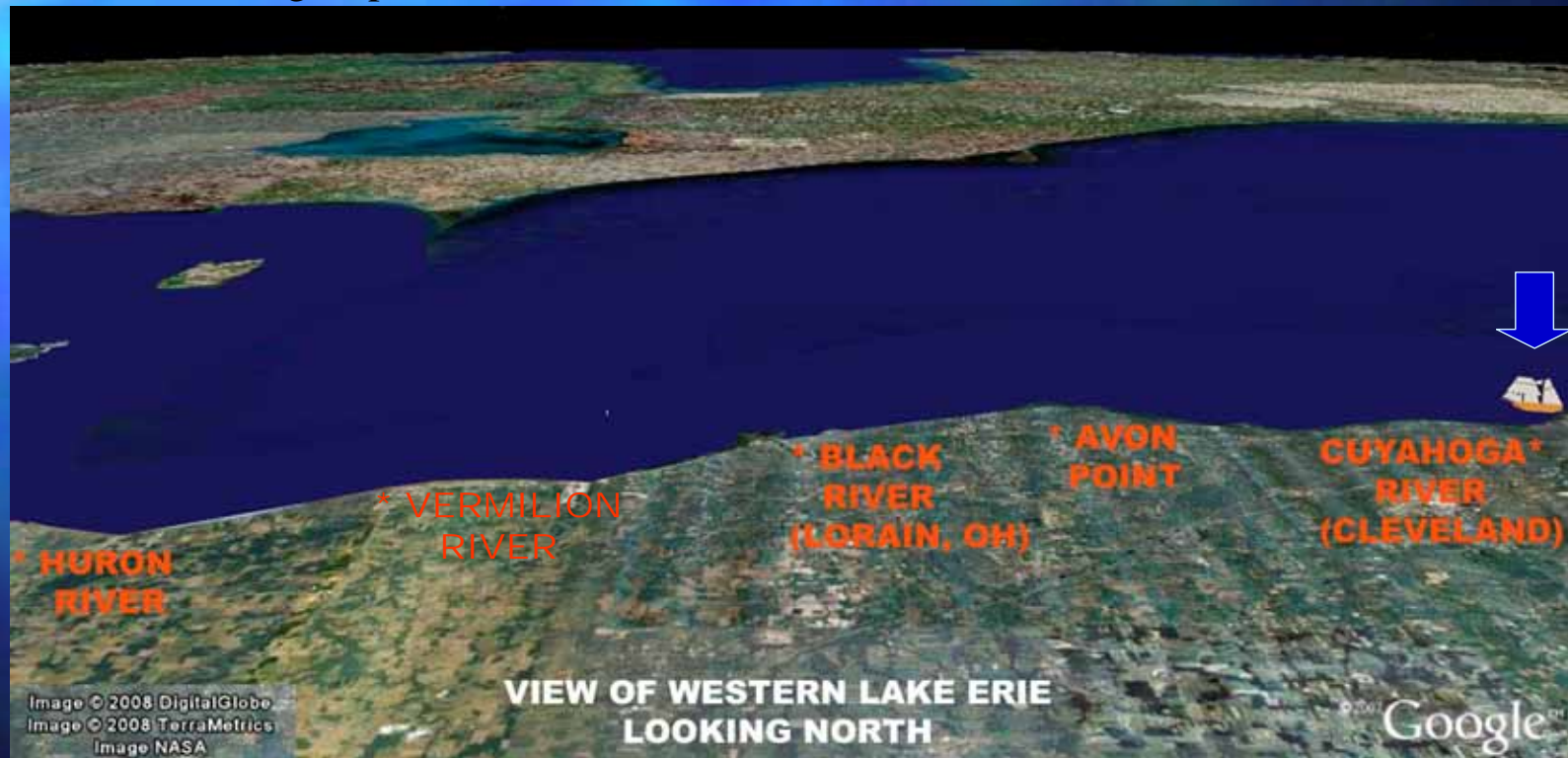


# Great Lakes



# October 5, 1855: Schooner Ivanhoe departs Cleveland 6:30 PM.

Buffalo Morning Express, 8 October 1855





# October 5, 1855: Schooner Ivanhoe departs Cleveland 6:30 PM.

Buffalo Morning Express, 8 October 1855

## CARGO:

275 Tons of Coal

100 Barrels of Salt

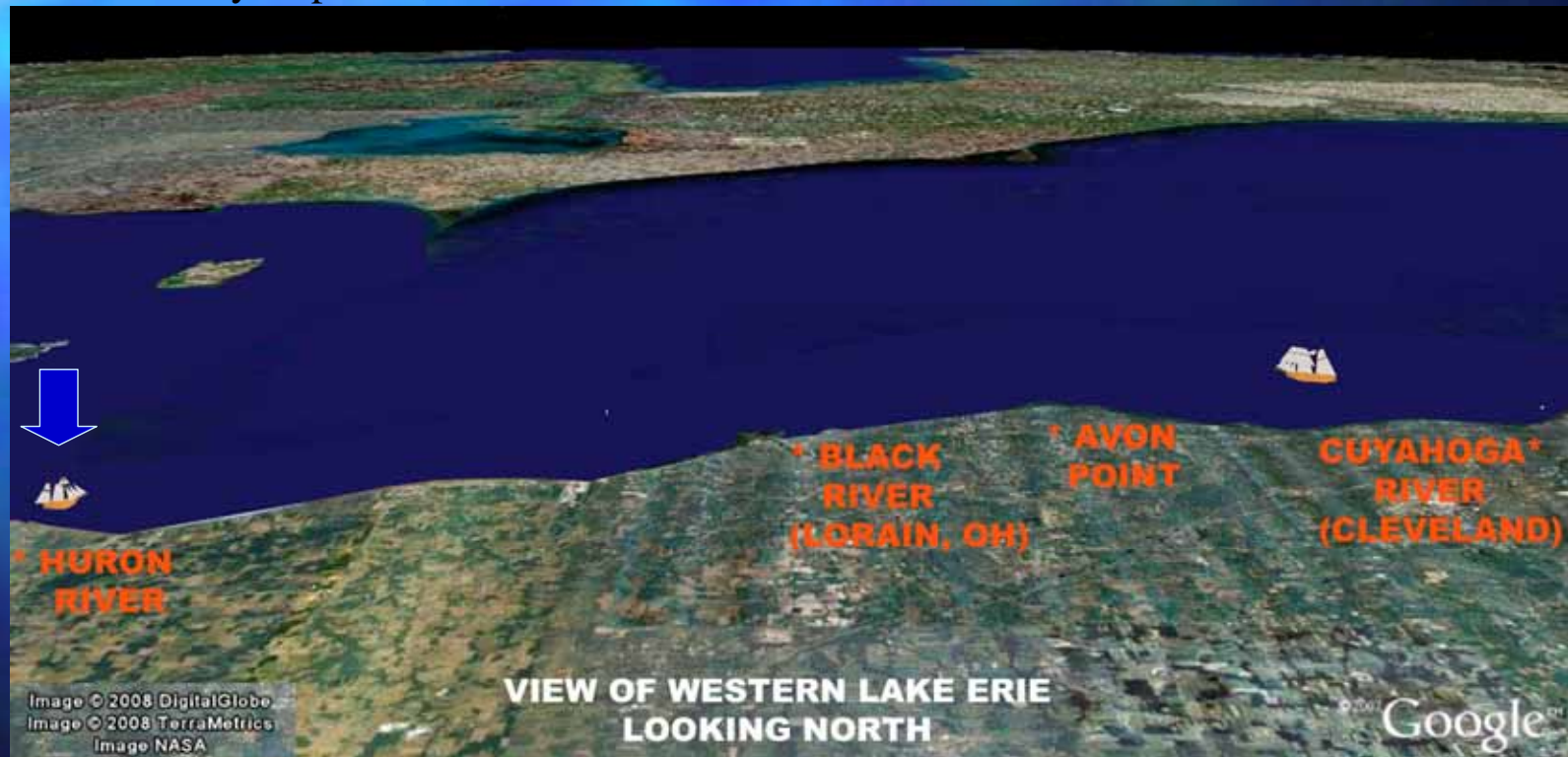
76 Barrels of Apples

(Buffalo Morning Express, 8 October 1855)



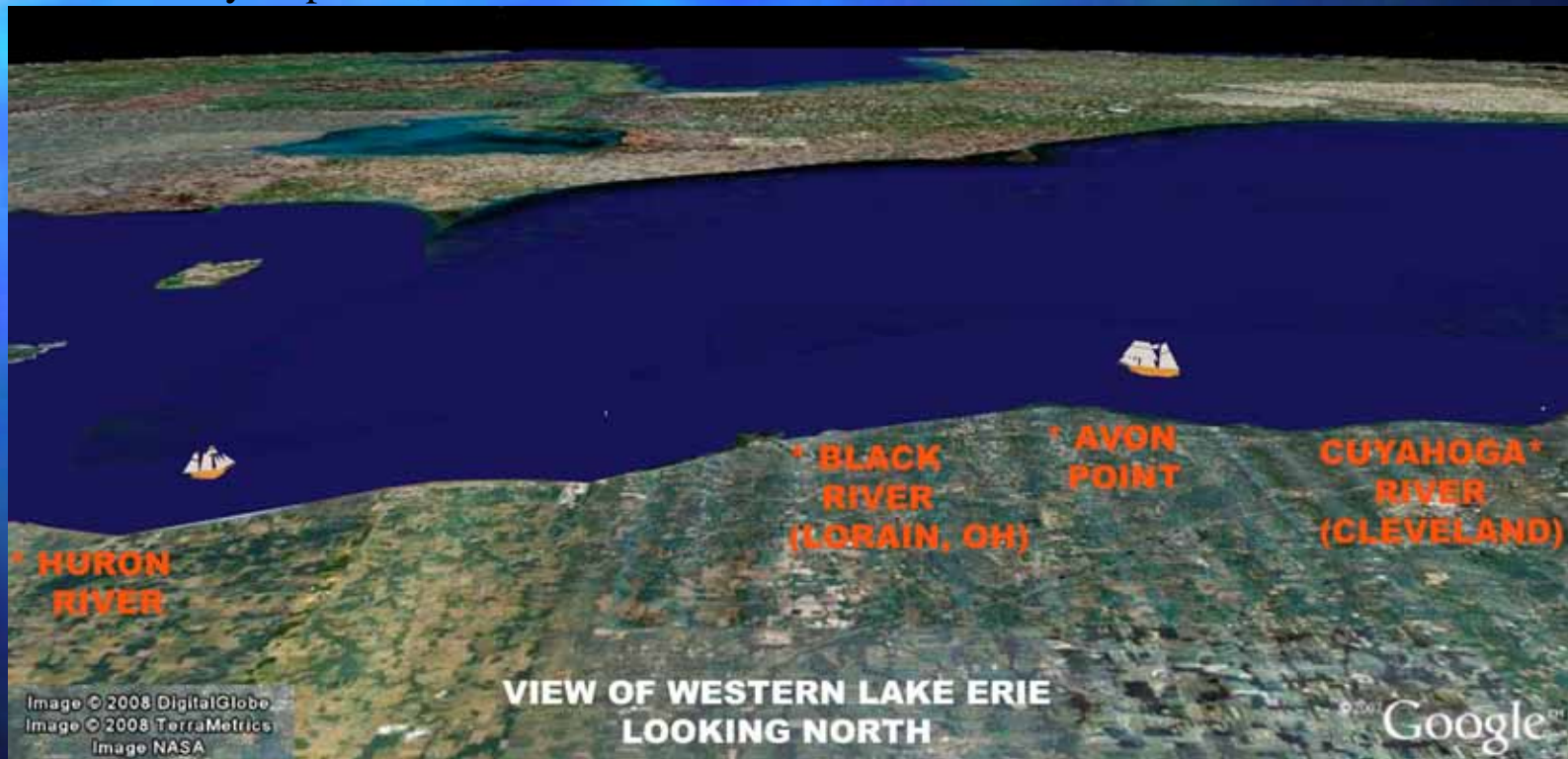
# that same evening Schooner Arab departs Huron...

Buffalo Daily Republic, 6 October 1855



...bound down with an 8 knot breeze.

Buffalo Daily Republic, 6 October 1855



# Ivanhoe above the Black River on a N.W. heading.

Buffalo Morning Express, 8 October 1855



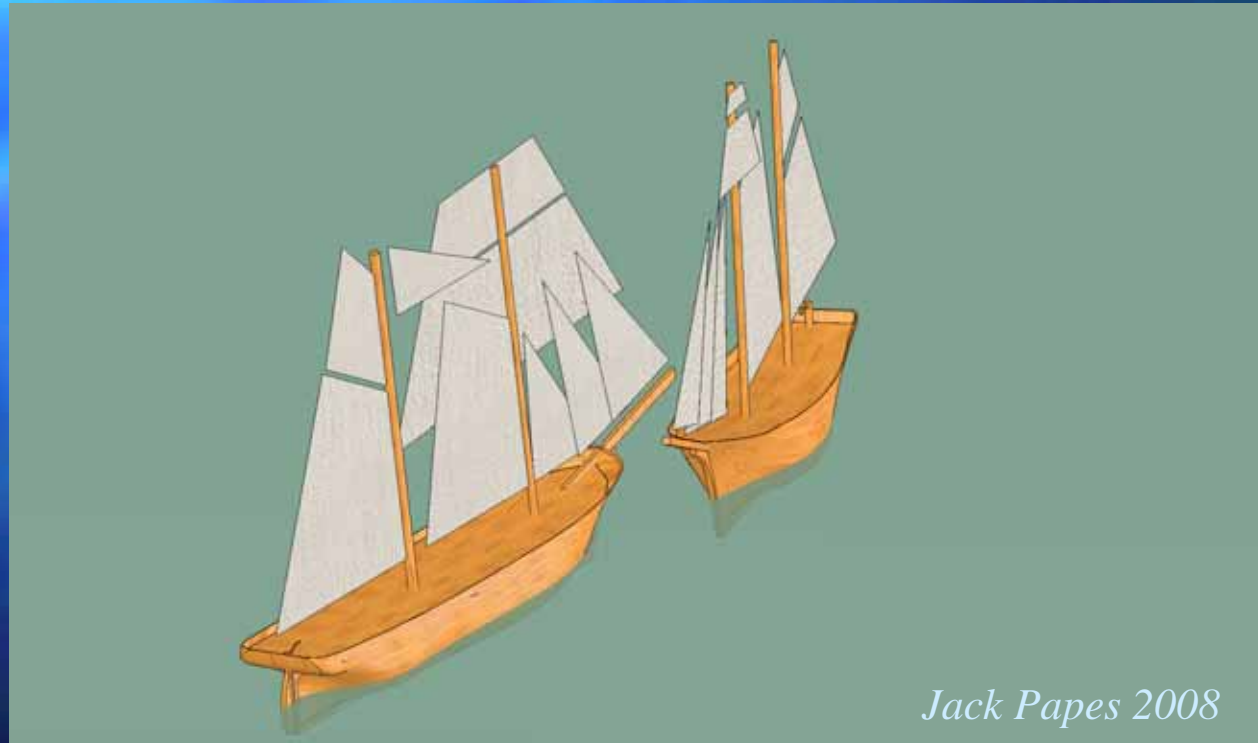
# Around 10:30 PM: Collision occurs in the vicinity of the Black River.

Buffalo Morning Express, 8 October 1855



Captain Grover of the Arab claims he saw a schooner 3 points off his starboard bow, instead of holding her course, kept away and struck him near the foremast on the starboard side...

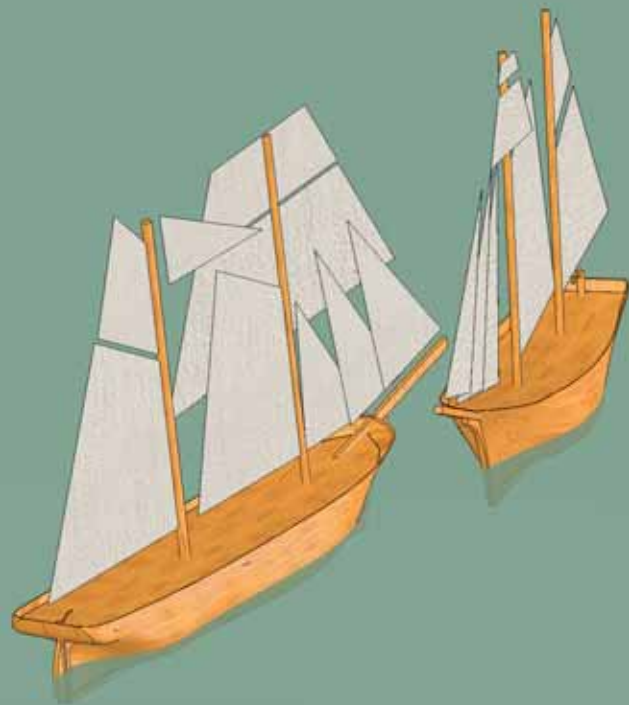
Buffalo Daily Republic, 6 October 1885



Captain Galligan of the Ivanhoe claims that he was struck by a schooner, just abaft her fore rigging....

Buffalo Morning Express, 8 October 1855

~~the foremast on the steamer~~



*Jack Papes 2008*

Wind blowing, unable to turn to render assistance, Arab proceeds.

Buffalo Daily Republic, 6 October 1855





# Ivanhoe comes about (with the Westerly wind), makes for shore.

Buffalo Morning Express, 8 October 1855



# Ivanhoe crew struggles at the pumps -- a loosing battle.

Buffalo Morning Express, 8 October 1855



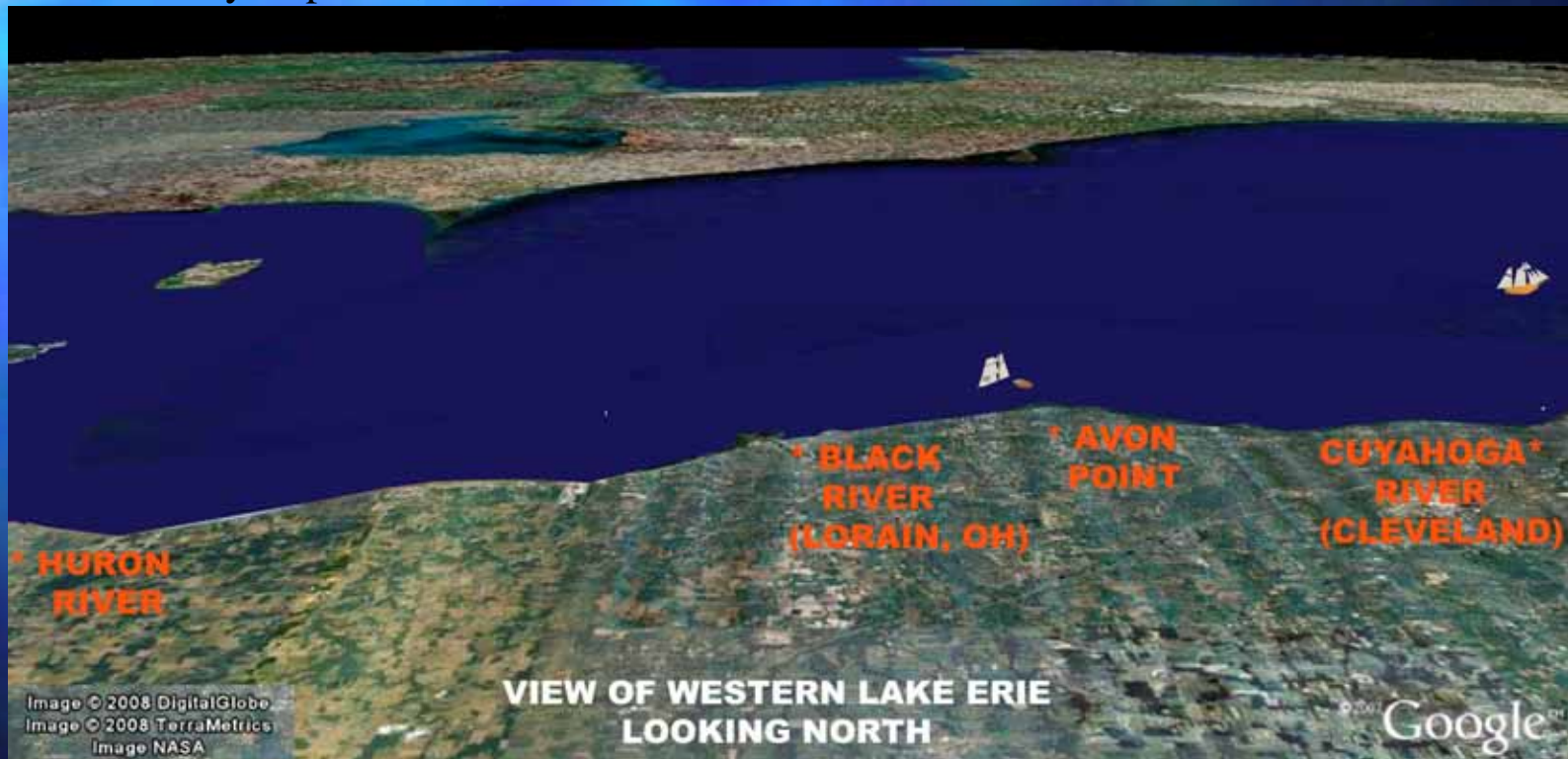
# About Midnight, above Avon Point, crew takes to yawl...

Buffalo Daily Republic, 5 October 1855



# Arab Continues on to Buffalo, pulling in Friday morning, Oct. 6th..

Buffalo Daily Republic, 6 October 1855



# Crew picked up by the Steamer Ohio off of Avon Point. Delivered to Cleveland.

Buffalo Morning Express, 8 October 1855

Great Lakes Historical Society



# Crew picked up by the Steamer Ohio off of Avon Point. Delivered to Cleveland.

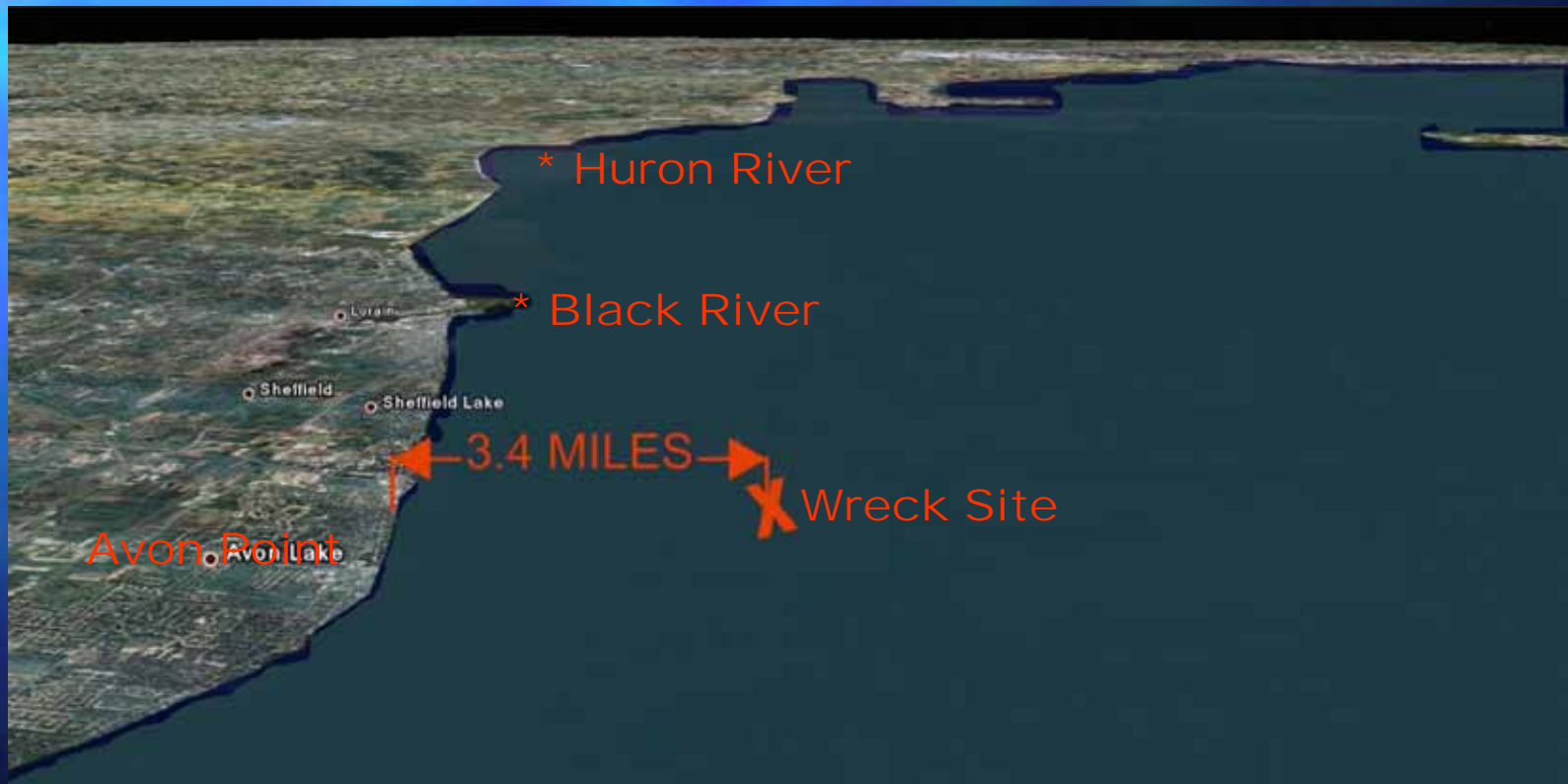
Buffalo Morning Express, 8 October 1855

Great Lakes Historical Society



Early Steam Propeller Built: 1848 at Black River, Ohio  
Dims: 159'4" x 25'-9" x 11'5"  
Operated between Buffalo/Green Bay, Milwaukee, Chicago.  
Lost: 30 Miles West of Long Point. Nov. 6, 1859 due to explosion. (Early American Steamers, Vol II, Heyl, Eric 1956)

# Mast Survey of the Ivanhoe

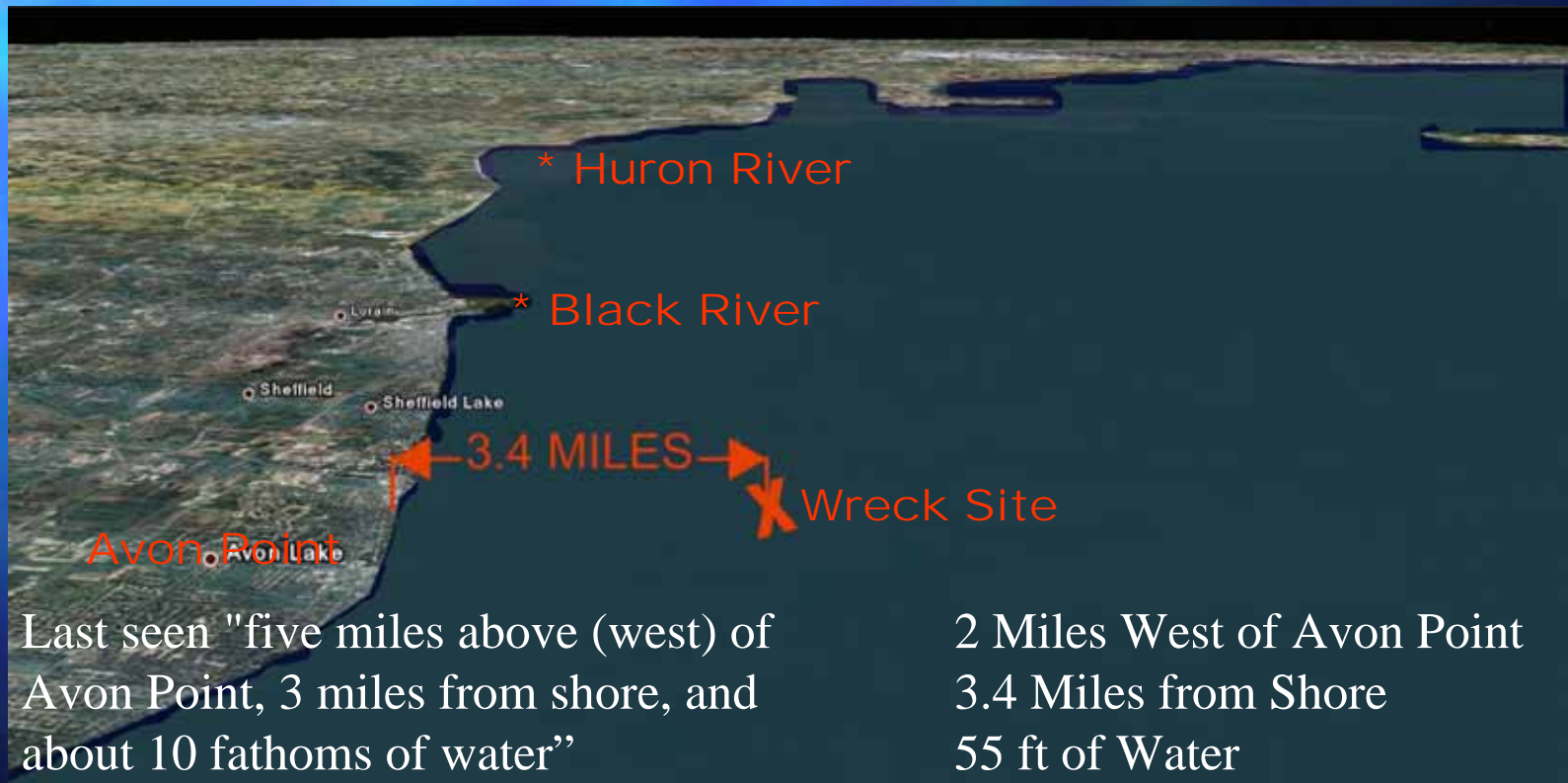


# Mast Survey of the Ivanhoe





# Mast Survey of the Ivanhoe



Last seen "five miles above (west) of Avon Point, 3 miles from shore, and about 10 fathoms of water"

(Buffalo Morning Express, 8 October 1855)

2 Miles West of Avon Point  
3.4 Miles from Shore  
55 ft of Water

# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



# Ivanhoe Survey 2007

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# Ivanhoe Survey 2007

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# Ivanhoe Survey 2007



Ed Naga aboard Uncle Buddha. Avon Point, OH. 04/20/07. Jack L...

# Ivanhoe Survey 2007



# Ivanhoe Survey 2007





# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



Mike C. aboard Uncle Buddha. 5/11/07. ©Jack Papes

# Ivanhoe Survey 2007



Mike C. Surfaces from the Jug Wreck, 5/11/07. ©Jack Papes



Ed Noga. Surfaces from the Jug Wreck, 5/11/07. ©Jack Papes

# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



Pawl bit, "Jug Wreck", Lake Erie, 5/11/07. ©Jack Papes

TOP OF PAWL  
BIT



*Jack Papes 2008*

# Ivanhoe Survey 2007



BASE OF PAWL  
BIT

# Ivanhoe Survey 2007



Ivanhoe. Lake Erie, Avon Lake, OH. 6/15/07. ©Jack Papes

CENTER BOARD



*Jack Papes 2008*



# Ivanhoe Survey 2007



*Jack Papes 2008*

# Ivanhoe Survey 2007

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Avon Lake Power Plant Viewed From the Site of the Jug Wreck. 5/11/07. ©Jack Papes

# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



# Ivanhoe Survey 2007





# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



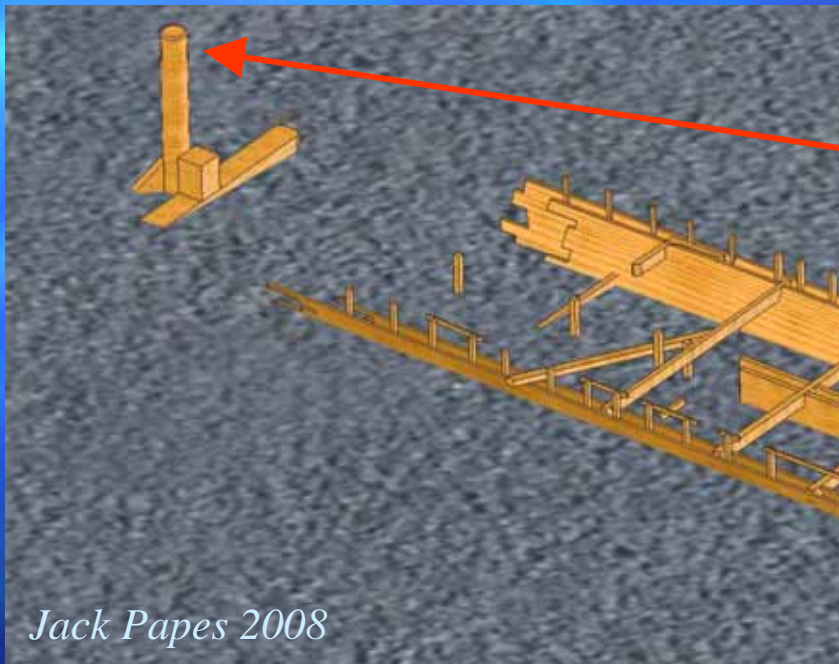
Jug Wreck (Ivanhoe), Lake Erie, 5-11-07, ©Jack Papes

PORT RAIL

*Jack Papes 2008*



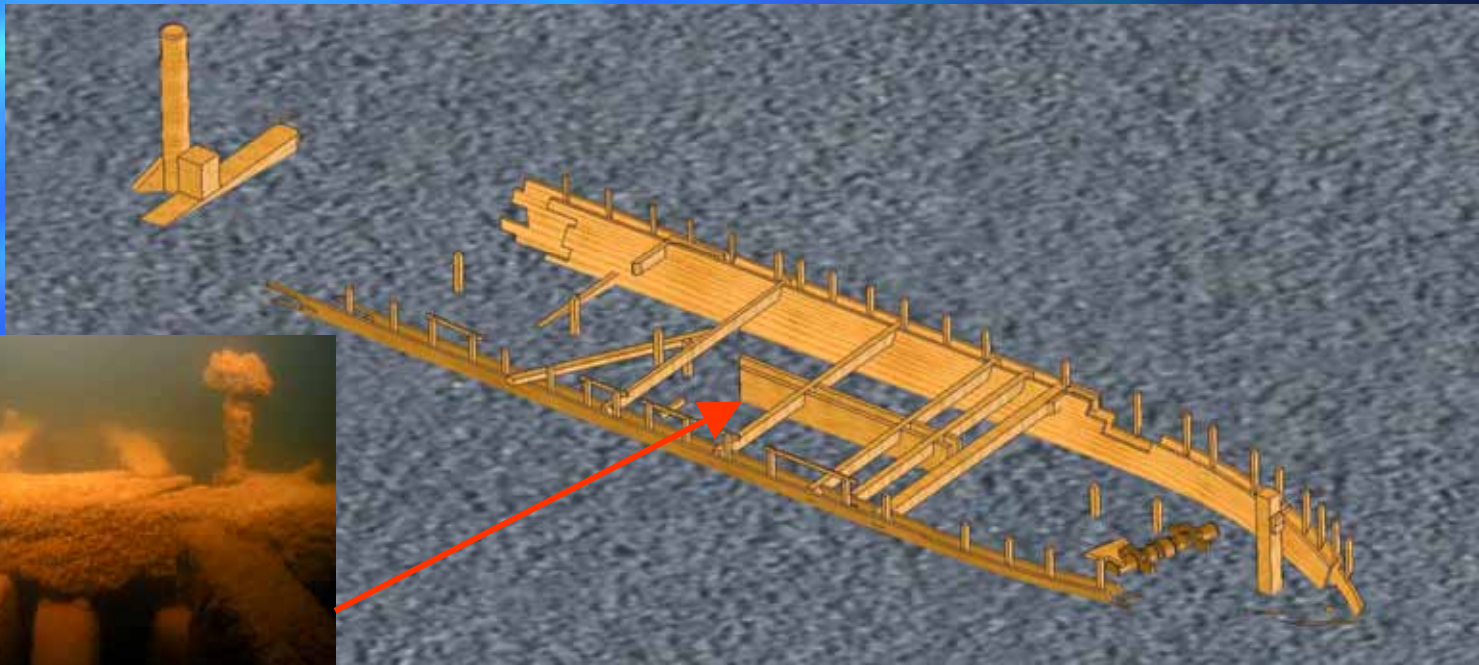
# Ivanhoe Survey 2007



Rudder Post, Ivanhoe, Lake Erie, Avon Lake, Ohio. ©15/07. ©Jack Papes

TOP OF  
RUDDER POST

# Ivanhoe Survey 2007



CENTER BOARD

# Ivanhoe Survey 2007



KNEE

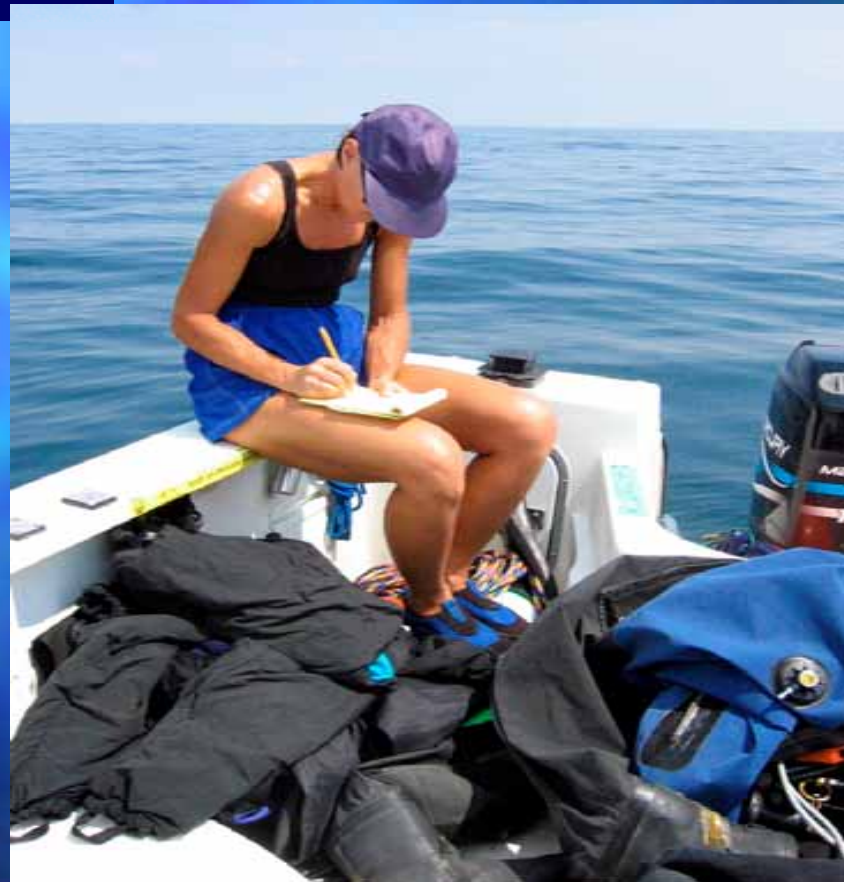
*Jack Papes 2008*



# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



# Ivanhoe Survey 2007





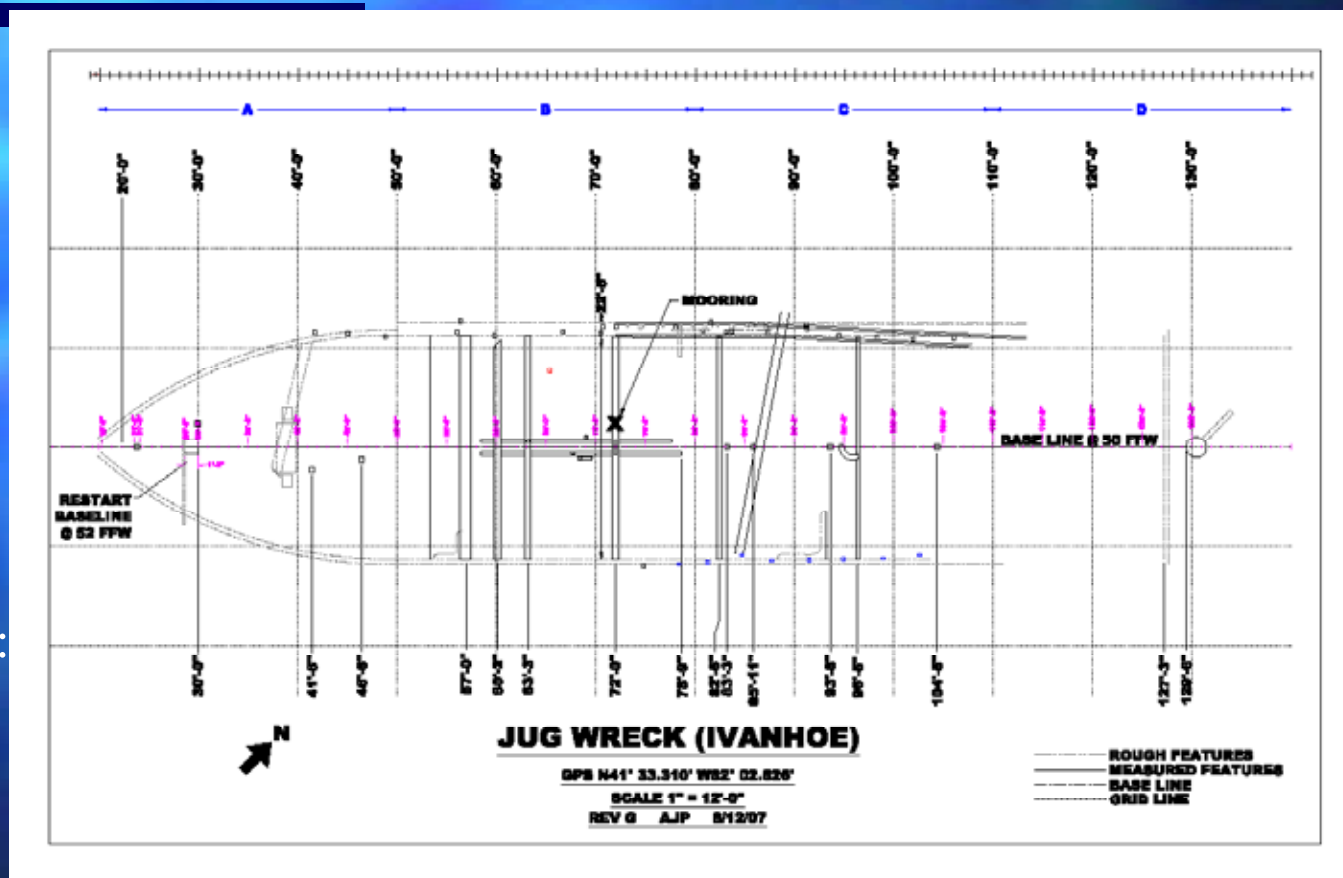
# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



# Ivanhoe Survey 2007



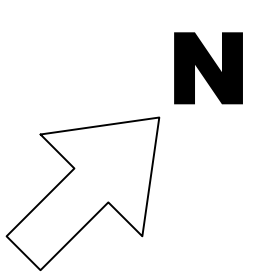
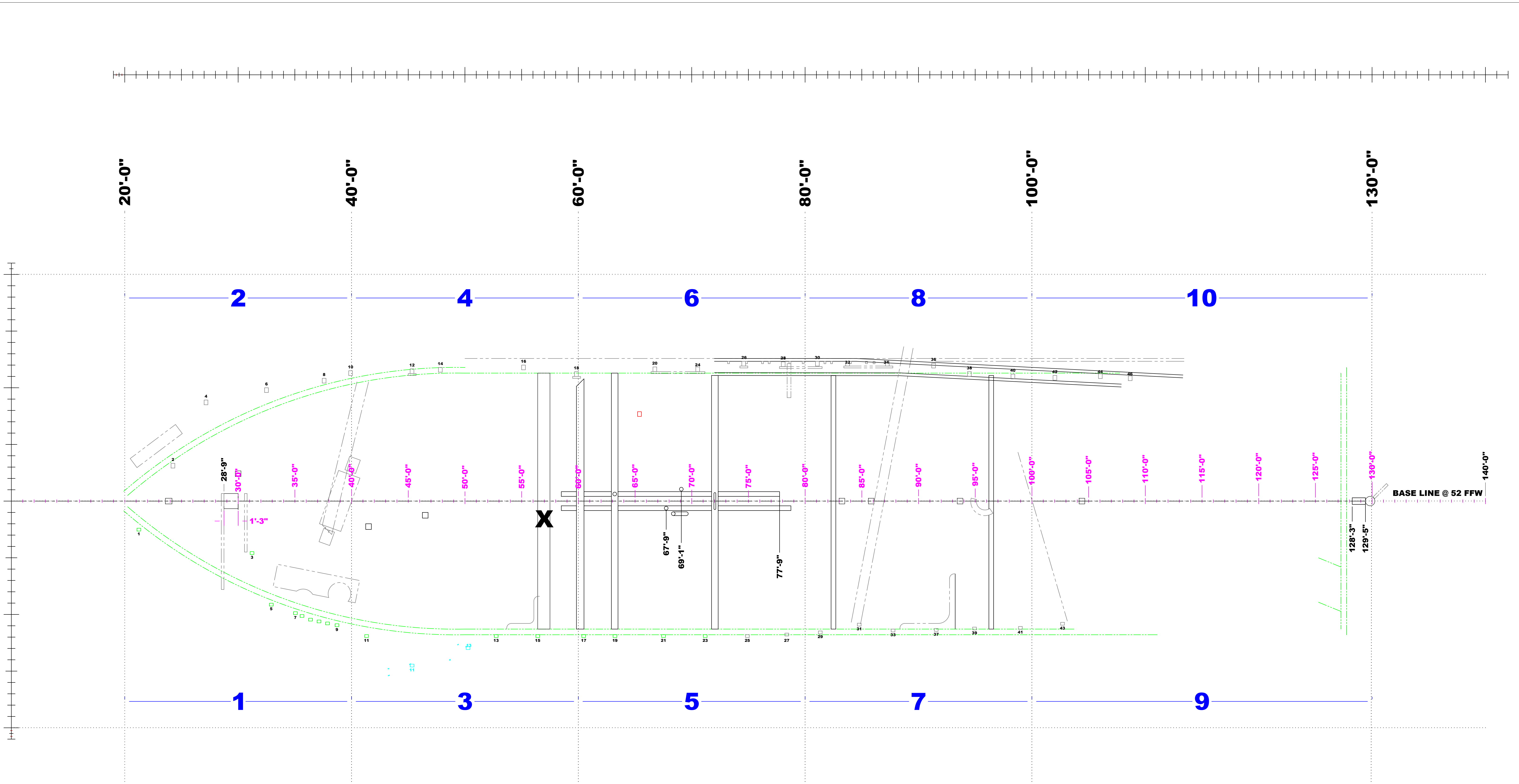
2007 U/W Totals:

Dives: 57

U/W Hrs: 42

Field Hrs: 286

Ohio Archaeological Site# 33LN270



# JUG WRECK (IVANHOE)

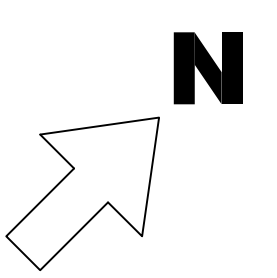
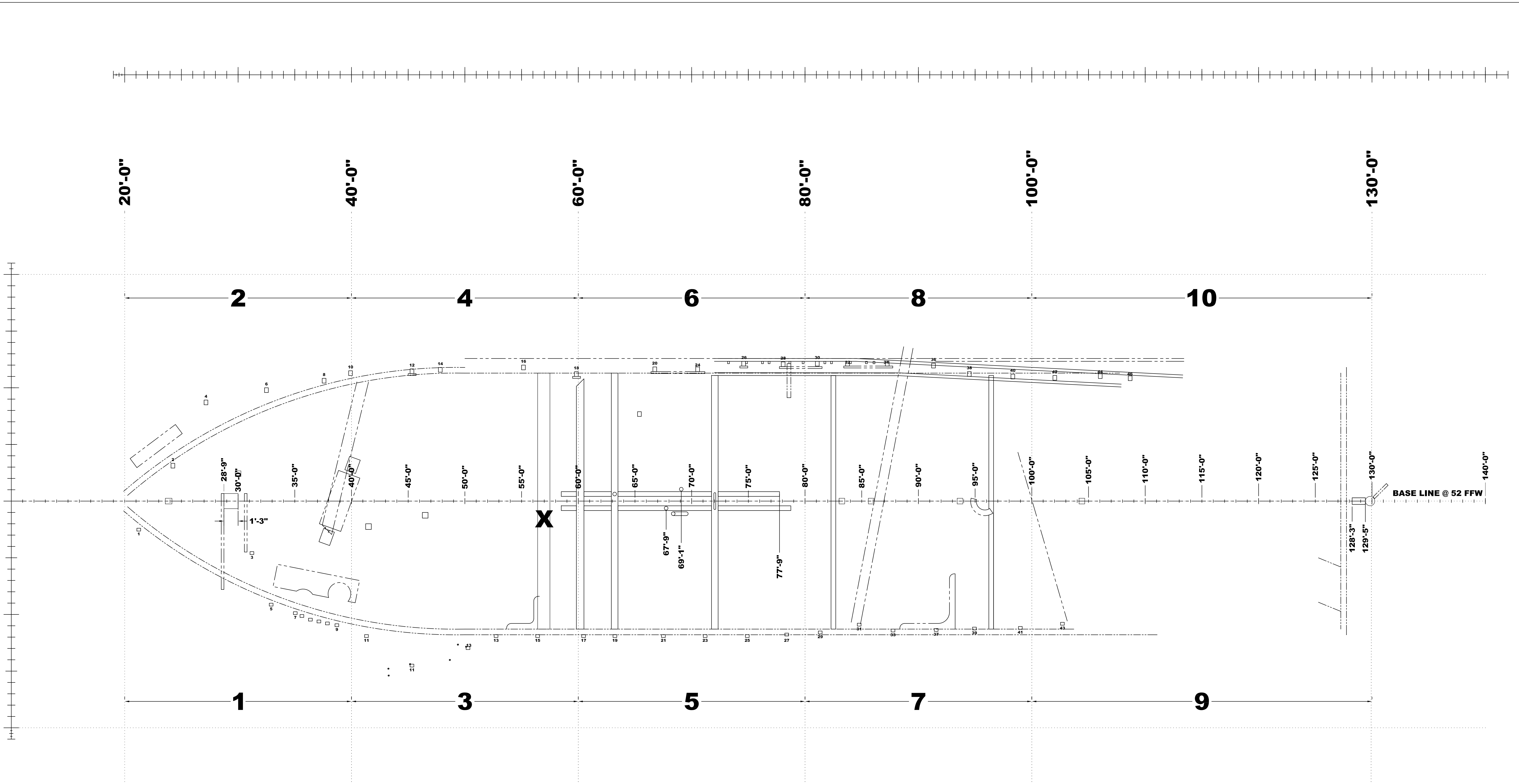
OHIO ARCHAEOLOGICAL SITE# 33LN270

GPS N41° 33.310' W82° 02.826'

SCALE 1/4" = 1'-0"

REV J AJP 6/27/08

- REFERENCE ONLY
- - - ROUGH FEATURES
- MEASURED FEATURES
- - - BASE LINE
- ..... GRID LINE



# JUG WRECK (IVANHOE)

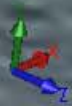
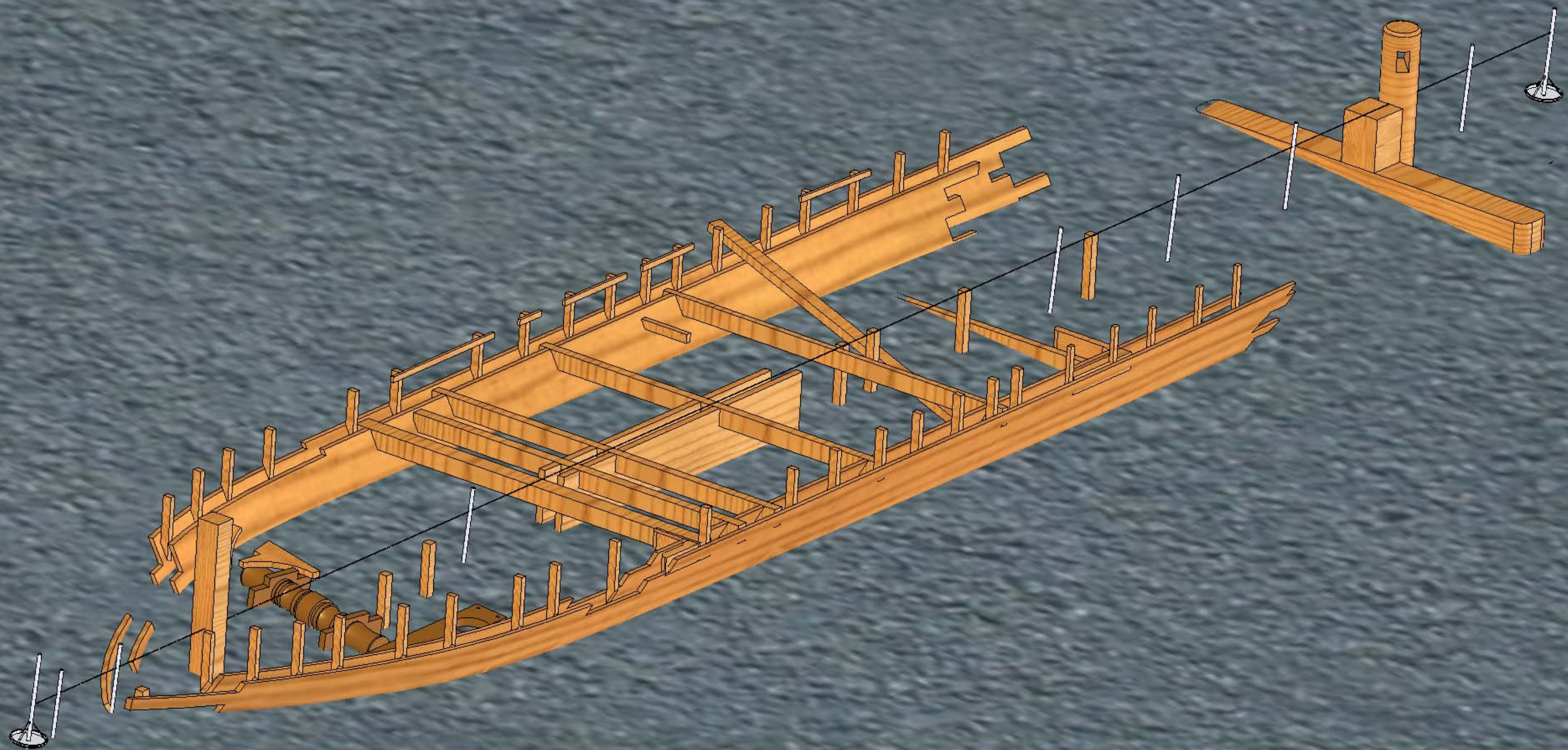
OHIO ARCHAEOLOGICAL SITE# 33LN270

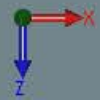
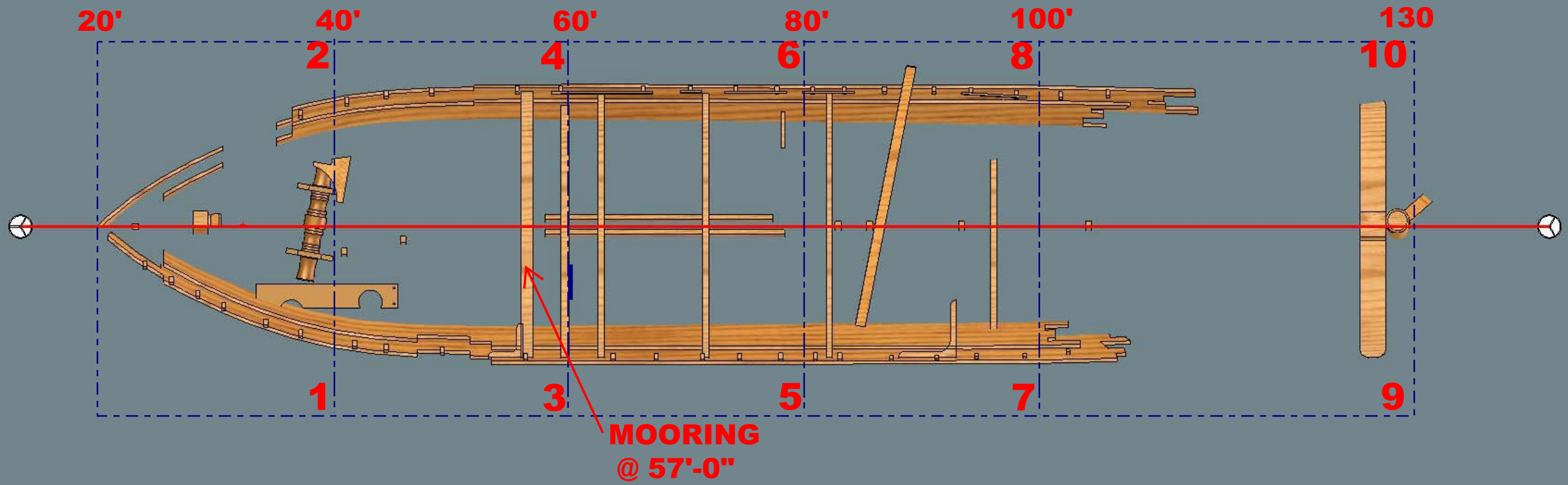
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- REFERENCE ONLY
- ROUGH FEATURES
- MEASURED FEATURES
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- GRID LINE





## IVANHOE SURVEY LOG

Project Dive #	Date/Names	Dive # this date	IN Air	Time	OUT Air	Time	U/W (Mins)	Depth ft	Temp F	Vis ft	Field Hours	Tasks
<b>4/29/2007</b>												
1	Jack Papes	1	2600	11:17	1933	12:02	45	54	44	3	10	Tie-in marker line & Site Reconnaissance Aft.
2	Mike Chrisopulos	1	3200	12:40	1000	12:40	29	55	46		10	Site Reconnaissance Fwd.
3	Ed Noga	1	3000	12:40	900	13:17	37	55	40		10	"
4	Jack Papes	2	1900	13:41	1356	14:17	36	55	44	3		Site Reconnaissance Aft.
5	Ed Noga	2	3000	14:40	1000	14:40	35	55	40			Site Reconnaissance Fwd.
<b>5/11/2007</b>												
6	Jack Papes	1	2800	16:10	2266	17:14	64	54	47	6-8	6	Still Photos / Site Reconnaissance.
7	Mike Chrisopulos	1	3100	17:34	900	17:34	41	55	48		6	Site Reconnaissance.
8	Ed Noga	1	3000	17:34	600	17:34	41	55	40		6	"
<b>5/18/2007</b>												
9	Jack Papes	1	1000	15:21	400	15:52	31	54	54	6	6	Baseline.
10	Ed Noga	1	3000	16:15	600	16:15	45	55	45		6	"
<b>5/19/2007</b>												
	Gary Hummel	-	-	-	-	-	-	-	-	-	6	Captain
	Linda Zander	-	-	-	-	-	-	-	-	-	6	First Mate
11	Jack Papes	1	2800	15:04	2500	15:24	20	53	55	2	6	Install Mooring.
12	Greg Ondus	1	3000	15:04	2700	15:24	20				6	"
<b>6/1/2007</b>												
13	Jack Papes	1	2900	16:01	900	17:30	89	54	51	8	6	Finish Baseline.
14	Ed Noga	1	3100	17:50	600	17:50	42	54	52		6	Finish Baseline.
<b>6/15/2007</b>												
15	Jack Papes	1	2800	16:00	1400	17:05	65	53	54	7	6	Locate Beams on baseline.
16	Ed Noga	1	3000	17:25	600	17:25	42	55	53		6	Sketch Fwd.
<b>6/30/2007</b>												
17	Jack Papes	1	2800	11:50	1900	12:33	34	54	56	5-8	10	Check Baseline. Measure 80'-110' Starboard
18	Doug Mowery	1	3000	11:50	600	12:30	31	54	56		10	"
19	Ed Noga	1	3000	12:46	500	13:35	49	55	56		10	Measure 50'-80' Port
20	Carrie Sowden	1	3200	12:46	1000	13:35	49	54	56		10	"
21	Jack Papes	2	1900	13:54	1000	13:54	52	53	56			Measure 80'-110' Starboard
22	Doug Mowery	2	3000	13:59	600	14:41	37	56	56			"
23	Gary Hummel	1	3000	13:59	700	14:39	40	54	56		10	Site Reconnaissance
24	Ed Noga	2	3000	15:07	500	15:07	37	54	56			Measure 50'-80' Port
25	Carrie Sowden	2	2100	15:07	700	15:07	37	56	56			"
<b>7/7/2007</b>												
26	Jack Papes	1	3000	11:10	1900	12:05	51	53	58	8	10	Check/ Repair Baseline. Sketch railing 80'-110'
27	Ed Noga	1	3500	11:45	600	12:45	60	54	60		10	Measure 50'-80' Starboard
28	Bob Mazur	1	3100	11:45	1750	12:45	60	54	60		10	"
29	Mike Chrisopulos	1	2600	12:40	500	13:18	32	56	59		10	Measure 80'-110' Port
30	Doug Dobransky	1	3500	12:40	2400	13:18	38	56	59		10	"
31	Jack Papes	2	1900	13:54	1000	14:44	48	54	58			Sketch Railing 80'-110' Starboard



## IVANHOE SURVEY LOG

Project Dive #	Date/Names	Dive # this date	IN Air	Time	OUT Air	Time	U/W (Mins)	Depth ft	Temp F	Vis ft	Field Hours	Tasks
32	Ed Noga	2	2500	14:15	500	15:11	56	54	60			Measure 50'-80' Starboard
33	Bob Mazur	2	1750	14:15	1000	15:11	56	54	60			"
34	Mike Chrisopulos	2	2500	15:10	600	15:45	35	56	59			Measure 80'-110' Port
35	Doug Dobransky	2	2400	15:10	1500	15:45	35	56	59			"
<b>7/8/2007</b>												
	Jack Papes	0	-	-	-	-	-	-	-		10	Aborted: Dive boat found to be sinking once at mooring. Bail for your life.
	Chris Herbruck	0	-	-	-	-	-	-	-		6	"
	Mike Chrisopulos	0	-	-	-	-	-	-	-		6	"
	Doug Dobransky	0	-	-	-	-	-	-	-		6	"
36	Ed Noga	1	3500	14:05	1000	14:54	49	53	59	8	7	Measure 50'-80' Starboard
37	Jim Clark	1	3400	14:05	1150	14:33	28	54	58		7	"
<b>7/22/2007</b>												
38	Jack Papes	1	2800	13:55	1800		54	54	59	8	6	Check Baseline. Locate Ribs 80'-110' Starboard. Add Tags.
39	Mike Chrisopulos	1	3500	15:23	1100	16:09	46	54	59		6	Measure 50'-80' Starboard
40	Ed Noga	1	3300	15:23	600	16:09	45	54	60		6	"
<b>8/5/2007</b>												
41	Jack Papes	1	2900	9:46	1400	10:52	66	54	61	5	10	Check Baseline. Measure 80'-130' Starboard
42	Glenn Fisher	1	3200	9:46	500	10:52	65	54	61		10	"
43	Mike Chrisopulos	1	3500	11:24	800	12:15	53	56	62		10	Measure 80'-110' Port
44	Doug Dobransky	1	3300	11:24	2200	12:15	51	54	61		10	"
45	Jack Papes	2	1300	12:40	500	13:23	42	54	61			Check Baseline. Measure 80'-130' Starboard
46	Glenn Fisher	2	3000	12:40	1400	13:23	42	54	61			"
	Mike Chrisopulos	-	-	-	-	-	-	-	-			Dives canceled due to building seas.
	Doug Dobransky	-	-	-	-	-	-	-	-			"
<b>8/12/2007</b>												
47	Jack Papes	1	2800	10:28	1700	11:19	50	53	65	5	10	Check Baseline. Measure 80'-130' Starboard & Port
48	Leslie Taborac	1	2800	10:28	500	11:19	50	53	65		10	"
	Mike Chrisopulos	0	-	-	-	-	-	-	-		10	Boat watcher
49	Doug Dobransky	1	3000	10:53	1900	11:37	44	54	65		10	Sketch Railing 18"-50' Port
50	Jack Papes	2	1700	13:03	700	13:54	51	54	65			Measure 80'-130' Starboard & Port
51	Leslie Taborac	2	1700	13:03	700	13:54	51	54	65			"
52	Doug Dobransky	2	1900	13:15	800	14:03	48	54	65			Sketch Railing 18"-50' Port. Add Tags.
<b>8/25/2007</b>												
	Ed Noga	0	-	-	-	-	-	-	-		-	Canceled due to weather 8/24
	Tyrone Cooper	0	-	-	-	-	-	-	-		-	"
	Jack Papes	0	-	-	-	-	-	-	-		-	"

## IVANHOE SURVEY LOG

Project Dive #	Date/Names	Dive # this date	IN Air	Time	OUT Air	Time	U/W (Mins)	Depth ft	Temp F	Vis ft	Field Hours	Tasks	
<b>9/30/2007</b>													
	Doug Dobransky	0	-	-	-	-	-	-	-	-	-	Canceled by Captain 9/28	
	Jack Papes	0	-	-	-	-	-	-	-	-	-	"	
	Dave Haas	0	-	-	-	-	-	-	-	-	-	"	
	Tony Thomas	0	-	-	-	-	-	-	-	-	-	"	
<b>10/6/2007</b>													
53	Jack Papes	1	2800	10:07	1600	11:10	56	53	60	5	10	Check Baseline. Measure outline 18"-50'	
54	Ed Noga	1	3000	10:12	500	11:10	51	5	61		10	Port	
55	Glenn Fisher	1	3500	11:40	2000	12:14	34	53	60		10	Pull Mooring	
56	Ed Noga	2	3000	11:52	1750	12:13	21	54	61			"	
57	Glenn Fisher	1	3500	13:00	2000	13:00	11	55	60			Pull Stuck Anchor	
<b>Totals</b>							<b>42.12</b>	<b>Hrs</b>				<b>286.00</b>	<b>Hrs</b>

## IVANHOE SURVEY LOG 2008

Project Dive #	Date/Names	Dive # this date	IN Air	Time	OUT Air	Time	U/W (Mins)	Depth ft	Temp F	Vis ft	Field Hours	Tasks
<b>5/2/2008</b>												
1	Jack Papes	1	2700	16:30	1700	17:10	40	55	38	8	6	Install Mooring.
2	Mike Chrisopulos	1	3400	16:50	2800	17:00	10	55	38		6	"
3	Glenn Fisher	1	3000	16:50	1100	17:10	20	55	38		6	"
	Chris Herbruck	0	-	-	-	-		-	-		6	Captain
<b>5/10/2008</b>												
4	Jack Papes	1	2600	10:10	1300	11:15	65	55	50	10	10	Extend Baseline Aft 20 ft
5	Ed Noga	1	3000	10:10	500	10:10	60	55	50		10	Remove Old Tape
6	Mike Chrisopulos	1	3000	11:35	1800	12:11	36	55	50		10	Extend Baseline Fwd 20 ft
7	Doug Dobransky	1	3000	11:35	2000	12:05	30	57	50		10	Extend Baseline Fwd 20 ft
8	Jack Papes	2	1300	12:20	400	13:00	40	55	50			Extend Baseline Aft 20 ft
9	Ed Noga	2	3000	12:20	600	13:00	40	55	40			Run New Tape Aft
10	Mike Chrisopulos	2	3000	13:45	1000	14:07	22	56	50			Extend Baseline Fwd 20 ft
11	Doug Dobransky	2	2000	13:45	1200	14:15	30	56	50			Extend Baseline Fwd 20 ft
<b>5/16/2008</b>												
12	Jack Papes	1	2900	15:15	750	16:30	1:15	54	51	10	6	Tension Baseline Fwd, Mid, Aft
13	Ed Noga	1	3100	16:40	400	17:22	42	56			6	Tie Wrap Baseline, Mid
14	Mike Chrisopulos	1	2000	16:40	500	17:20	38	56			6	"
<b>6/8/2008</b>												
15	Jack Papes	1	3200	10:00	1200	10:57	0:57	55	54	10	8	Check Baseline, Run Tape Aft 20'
16	Sue Filaowsky	1	2640	10:00	882	10:57	0:57	53	52		8	Check Baseline, Run Tape Aft 20'
	Doug Dobransky										8	Dives Canceled due to weather
	Glenn Fisher										8	Dives Canceled due to weather
<b>6/14/2008</b>												
17	Jack Papes	1	3200	9:56	600	10:02	1:04	55	54	15	11	Run Tape Fwd 20'
18	Glenn Fisher	1	3400	10:02	600	11:06	1:04	55	54		11	Tag Starboard Post
19	Chris Herbruck	1	3200	11:24	1500	12:02	0:38	55	54		10	Tag Port Rail Post
20	Woody (Keith) Woodrich	1	2730	11:24	1300	12:02	0:38	55	53		12	Tag Port Rail Post
21	Jack Papes	2	2600	13:31	400	14:39	0:57	55	54			Add Tie Wraps Fwd 20', Measure outline Port Side Bow - 57'
22	Glenn Fisher	2	3400	13:35	800	14:40	1:05	56	54			Tag Port Post #1 & #3, Measure outline Port Side Bow - 57'
23	Chris Herbruck	2	3300	15:13	1400	15:50	0:37	56	54			Measure outline port side 57' -
24	Woody (Keith) Woodrich	2	2730	15:13	1300	15:50	0:37	56	53			Measure outline port side 57' -
<b>6/22/2008</b>												
25	Jack Papes	1	2600	12:30	1100	13:46	1:16	55	58	10	6	Rough Locate Bottom Objects on BL. Photos.
26	Ed Noga	1	3000	13:55	1500	2:31	36	57	58		6	Check Tags
27	Mike Chrisopulos	1	3000	14:16	500	15:53	57	55	59		6	Check Tags
<b>6/28/2008</b>												
	Jack Papes	0									15	Survey
	Will Moser	0									10	Surface Support
	Carl Norris	0									10	Surface Support
	Carrie Sowden	0									10	Surface Support
28	Niki Fortlage	1	2250	11:52	1375	12:14	17	54	51		10	Section 6

## IVANHOE SURVEY LOG 2008

Project Dive #	Date/Names	Dive # this date	IN Air	Time	OUT Air	Time	U/W (Mins)	Depth ft	Temp F	Vis ft	Field Hours	Tasks
29	Gary Hummel	1	3000	11:54	1800	12:16	18	54	51		10	Section 6
30	Chris Herbruck	1	3200	11:50	1400	12:30	36	57	51		10	Section 10
31	Mike Chrisopulos	1	3700	11:51	1500	12:30	34	57	51		10	Section 10
32	Dana Forman	1	3000	12:00	500	12:30	27	55	51		10	Section 3
33	Rick Moore	1	3100	12:01	1000	12:42	27	55	51		10	Section 3
34	Kirk Olmstead	1	3000	12:03	700	12:43	31	55	51		10	Section 7
35	Judd Clover	1	2300	12:05	750	12:44	31	55	51		10	Section 7
36	Glen Fisher	1	3700	12:41	1200	13:26	44	54	51		10	Section 4
37	Greg Ondus	1	3200	12:42	2100	13:26	42	55	51		10	Section 4
38	Leslie Taborac	1	2900	12:37	1000	13:10	28	52	51		10	Section 5
39	Chris Kraska	1	3216	12:39	675	13:10	28	52	51		10	Section 5
40	Rich Silbiger	1	3500	12:40	2150	13:23	38	57	51		10	Section 1
41	Bob Mazur	1	2850	12:41	1800	13:23	38	55	51		10	Section 1
42	Ed Noga	1	3200	12:45	1750	13:20	31	53	51		10	Section 9
43	Brad Kruger	1	2900	12:46	1000	13:20	31	54	51		10	Section 9
44	Chris Herbruck	2	3000	13:35	1200	14:14	37	57	51			Section 10
45	Mike Chrisopulos	2	3470	13:34	1500	14:14	37	57	51			Section 10
46	Dana Forman	2	3000	13:58	400	14:33	34	55	51			Section 3
47	Rick Moore	2	3000	13:56	300	14:34	34	54	51			Section 3
48	Judd Clover	2	2400	14:23	300	15:11	38	55	51			Section 7
49	Garry Hummel	2	3000	14:22	1000	15:11	39	54	51			Section 7
50	Brad Kruger	2	2900	14:26	500	15:14	42	54	51			Section 9
51	Ed Noga	2	3200	14:26	1700	15:14	42	55	51			Section 9
52	Leslie Taborac	2	3000	14:25	1200	15:06	24	54	51			Section 5
53	Chris Kraska	2	1800	14:31	850	15:19	42	55	51			Section 5
54	Bob Mazur	2	2150	14:32	850	15:19	45	58	51			Section 1
55	Rich Silbiger	2	3319	14:34	902	15:09	31	52	51			Section 1
56	Greg Ondus	2	2100	14:36	1100	15:32	49	58	51			Section 4
57	Glen Fisher	2	3400	14:37	1200	15:32	51	56	51			Section 4
<b>8/29/2008</b>												
	Linda Chrisopulos										10	Surface Support
	Brad Kruger										10	Surface Support
58	Jack Papes	1	2600	10:39	1800	11:04	22	54	51	10	10	Check/Repair Baseline
59	Carrie Sowden	1	3200	10:34	2000	11:04	21	54	51		10	Check/Repair Baseline
60	Chris Herbruck	1	3000	10:55	1300	11:36	31	57	51		10	Section 2
61	Mike Chrisopulos	1	3200	10:56	1500	11:36	32	57	51		10	Section 2
62	Rick Moore	1	3000	11:17	700	11:54	29	52	51		10	Section 3
63	Dana Forman	1	2900	11:16	600	11:53	34	55	51		10	Section 3
64	Judd Clover	1	2700	10:15	500	11:45	31	56	51		10	Section 7
65	Kirk Olmstead	1	3000	11:11	490	11:46	30	55	51		10	Section 7
66	Don Andree	1	3045	11:20	1345	11:57	32	54	51		10	Section 6
67	Nick Poole	1	2990	11:12	765	11:57	30	55	51		10	Section 6
68	Rich Silbiger	1	3200	11:48	1550	12:32	39	57	51		10	Section 1
69	Bob Mazur	1	3000	11:48	2000	12:31	39	55	51		10	Section 1
70	Glen Fisher	1	3100	11:38	1100	12:27	45	56	51		10	Section 4
71	Greg Ondus	1	2800	11:40	1800	12:26	34	54	51		10	Section 4
72	Ed Noga	1	3100	11:50	1400	12:38	39	55	51		10	Section 5
73	Leslie Taborac	1	3000	11:50	1200	12:37	36	52	51		10	Section 5
74	Carrie Sowden	2	2000	12:03	500	12:40	31	57	51		10	Section 8

### IVANHOE SURVEY LOG 2008

Project Dive #	Date/Names	Dive # this date	IN Air	Time	OUT Air	Time	U/W (Mins)	Depth ft	Temp F	Vis ft	Field Hours	Tasks
75	Jim Clark	1	3000	12:05	2000	12:40	31	58	51		10	Section 8
76	Chris Herbruck	2	3000	12:51	1500	13:27	34	58	51			Section 2
77	Mike Chrisopulos	2	2800	12:52	1200	13:30	34	57	51			Section 2
78	Rick Moore	2	2000	13:24	900	13:53	28	55	51			Section 1
79	Dana Forman	2	3000	13:25	800	13:53	25	56	51			Section 1
80	Glen Fisher	2	2900	13:30	1350	14:25	41	56	51			Section 3
81	Greg Ondus	2	3100	13:35	1000	14:25	40	56	51			Section 3
82	Judd Clover	2	1800	13:17	800	13:47	29	56	51			Section 7
83	Kirk Olmstead	2	2750	13:14	500	13:47	29	58	51			Section 7
84	Don Andree	2	3176	13:11	820	13:46	28	55	51			Section 6
85	Nick Poole	2	2991	13:12	890	13:46	29	55	51			Section 6
	Ed Noga		3000									Dive Canceled due to weather
	Leslie Taborac		3200									Dive Canceled due to weather
	Carrie Sowden											Dives Canceled due to weather
	Jim Clark											Dives Canceled due to weather
86	Bob Mazur	2	3000	14:51	1500	15:05	7	53	51			Retrieve Mooring
87	Ed Noga	2	3000	14:52	2600	15:05	7	2	51			Retrieve Mooring
88	Glen Fisher	3	1350	15:30	600	15:40	10	55	51			Retrieve Anchor
<b>Totals</b>							42.32	<b>Hrs</b>			575.00	<b>Hrs</b>

# Ivanhoe Survey 2007

