

TP - 00523

TP - 00523

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
<i>Map No.</i> TP-00523	<i>Edition No.</i> 1
<i>Job No.</i> CM-7414	
<i>Map Classification</i> FINAL	
<i>Type of Survey</i> SHORELINE	
LOCALITY	
<i>State</i> ALASKA	
<i>General Locality</i> YAKUTAT BAY	
<i>Locality</i> YAKUTAT	
<div style="border: 1px solid black; padding: 5px; display: inline-block;">1975 TO 1977</div>	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00523</u> MAP EDITION NO. (1) MAP CLASS Final JOB <u>RH-CM-7414</u>
DESCRIPTIVE REPORT - DATA RECORD			

PHOTOGRAMMETRIC OFFICE Rockville, Maryland OFFICER-IN-CHARGE J. Collins, CDR, NOAA	LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__
---	---

I. INSTRUCTIONS DATED			
	1. OFFICE		2. FIELD
Aerotriangulation	Nov. 19, 1975	Horizontal Control	May 23, 1974
Compilation	Nov. 3, 1976	Premarking Supplement I	April 29, 1975
		Premarking Supplement II	May 10, 1976

II. DATUMS	
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH-AMERICAN	OTHER (Specify)
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL	OTHER (Specify)
3. MAP PROJECTION Oblique Mercator	4. GRID(S) STATE Alaska ZONE 1
5. SCALE 1:10,000	STATE ZONE

III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY D. Norman METHOD: Analytic LANDMARKS AND AIDS BY Oct. 1976.		
2. CONTROL AND BRIDGE POINTS PLOTTED BY S. Solbeck METHOD: Coradomat CHECKED BY Oct 1976		
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY J. Schad COMPILATION CHECKED BY J. Battley, Jr. INSTRUMENT: Wild B-8 Stereoplotter CONTOURS BY N.A. SCALE: 1:10,000 CHECKED BY N.A.		Nov 1976 Nov 1976
4. MANUSCRIPT DELINEATION PLANIMETRY BY R. Rich CHECKED BY J. Battley, Jr. METHOD: B-8 Worksheets CONTOURS BY N.A. CHECKED BY N.A. HYDRO SUPPORT DATA BY R. Rich SCALE: 1:10,000 CHECKED BY J. Battley, Jr.		Dec 1976 Dec 1976 Dec 1976 Jan 1977
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY P. Dempsey Feb 1977		
6. APPLICATION OF FIELD EDIT DATA BY J. Minton CHECKED BY J. Massey May 1978		
7. COMPILATION SECTION REVIEW BY J. Massey Jun 1978		
8. FINAL REVIEW BY L. O. Neterer, Jr. Sept 1986		
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY L. O. Neterer, Jr. Sept. 1986		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY P. Dempsey NOV. 1986		
11. MAP REGISTERED - COASTAL SURVEY SECTION BY E. L. DAUGHERTY DEC '86		

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00523
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-10C (88.47mm) RC-8E (152.71mm) RC-10Z (153.14mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Yukon	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 135°W	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75Z(C) 7100, 7101	Jul. 10, 1975	13:16	1:30,000	7.7 ft. above MLLW	
75Z(C) 7111 thru 7113	Jul. 10, 1975	13:28	1:30,000	8.0 ft. above MLLW	
75E(I) 1049, 1050	Jul. 10, 1975	13:29	1:30,000	8.0 ft. above MLLW	
75C(C) 7616	Aug. 30, 1975	13:18	1:60,000	1.0 ft. above MLLW	

REMARKS Photographs 75Z(C) 7111 thru 7113 and 75E(I) 1049, 1050 were flown in tandem at high water. Only 75Z(C) 7100 and 7101, 75Z(C) 7111 thru 7113 were prepared for hydro support.

2. SOURCE OF MEAN HIGH-WATER LINE:

The MHWL was compiled with a Wild B-8 Stereoplottter using the above listed high water photography.

3. SOURCE OF MEAN LOW-WATER LINE:

No MLLW was compiled.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST

REMARKS

TP-00523 (1:10,000) is an inset of TP-00619 (1:20,000).

TP-00523

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION (Premarking) FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	Jun 1975
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby	Jun 1975
	ESTABLISHED BY R. Melby	Jun 1975
	PRE-MARKED OR IDENTIFIED BY R. Melby	Jun 1975
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE	
	<input type="checkbox"/> SPECIFIC NAMES ONLY	
	<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
Paneled		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
75C(C)7616	Center Radio Tower, 1941		

3. PHOTO NUMBERS (Clarification of details)
None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
1 form 152 CSI Card

TP-00523

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C. Andreasen, CDR, NOAA	Jun 1977
2. HORIZONTAL CONTROL	RECOVERED BY G. Wheaton, LTJG, NOAA	Jun 1977
	ESTABLISHED BY G. Wheaton, LTJG, NOAA	Jun 1977
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY G. Wheaton, LTJG, NOAA	Jun 1977
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY G. Wheaton, LTJG, NOAA	Jun 1977
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	BY
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY G. Wheaton, LTJG, NOAA	Jun 1977
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)
75Z(C) 7100 and xerox copy of one unidentified photograph.

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
75Z(P) 7100	Radio Beacon		

5. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
ARCO Terminal, Yakutat, Alaska

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
One Field Edit Report, one Field Edit Ozalid, one Sounding Volume for TP-00523.

TP-00523
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and alongshore detail for hydro support	Dec 1976	Class III Manuscript	Mar 1977	Mar 1977
Field Edit applied at PMC. Compilation complete	May 1978	Class I Manuscript	June 1979	
Final Review	Sept 1986	Final Map	Nov. 1986	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER (pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2		Nov. 1976 Jun 27, 1979	Appropriate forms 76-40 are attached with this Descriptive Report.

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

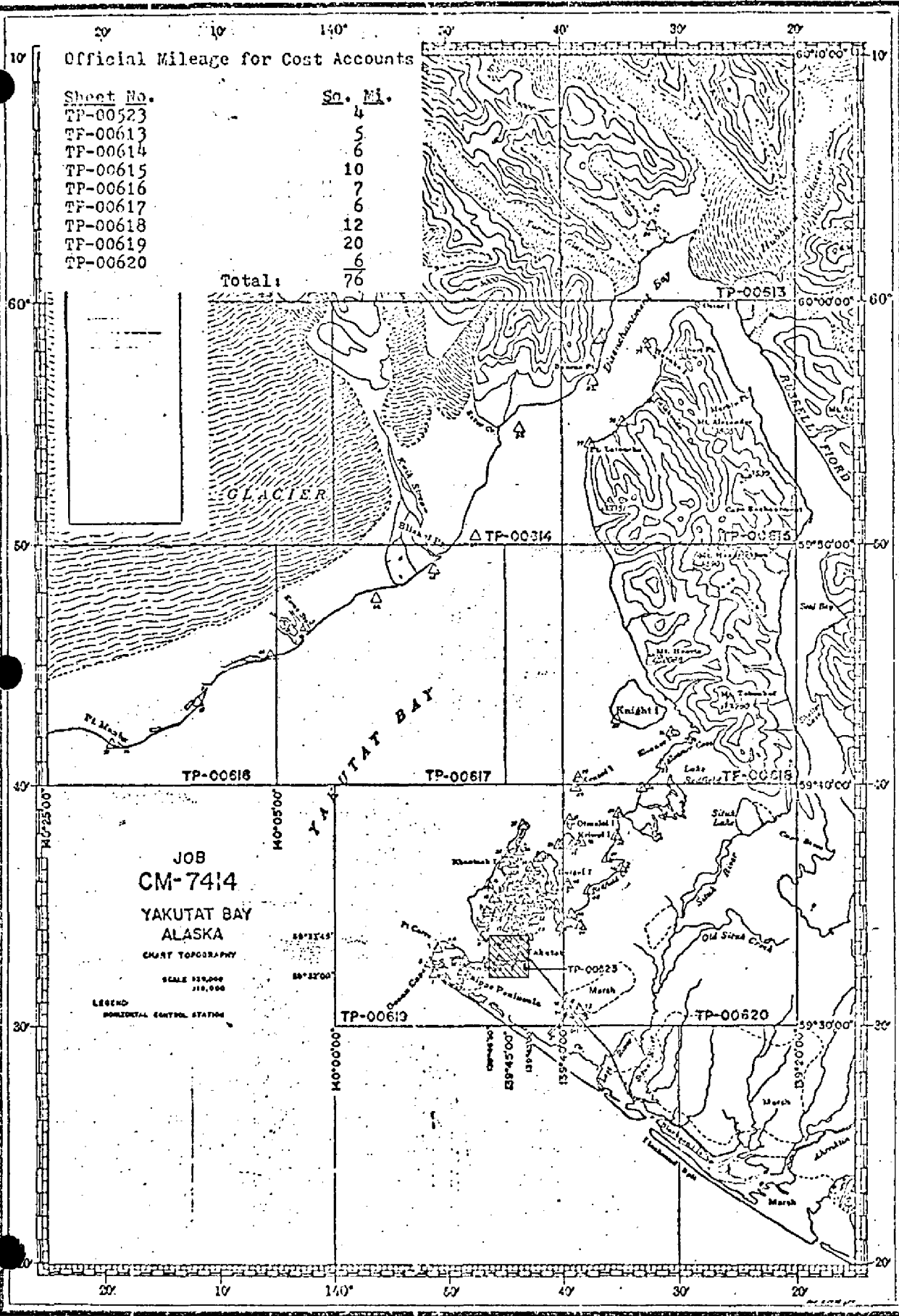
1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
 2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
 4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL

Official Mileage for Cost Accounts

Sheet No.	Sq. Mi.
TP-00523	4
TP-00613	5
TP-00614	6
TP-00615	10
TP-00616	7
TP-00617	6
TP-00618	12
TP-00619	20
TP-00620	6
Total:	76



JOB
CM-7414
YAKUTAT BAY
ALASKA

CHART TOPOGRAPHY
 SCALE 1:120,000
 1:120,000

LEGEND
 HORIZONTAL CONTROL STATION

SCALE 1:120,000

Rev. 1-17-75

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00523

This 1:10,000 scale shoreline maps is one of nine maps that comprise project CM-7414, Yakutat Bay, Alaska. This project encompasses Yakutat Bay to Disenchantment Bay, latitude 59° 30' 00" north to latitude 60° 10' 00".

Field work prior to compilation, consisting of the identification of horizontal control by premarking methods to meet aerotriangulation requirements, was accomplished in June 1975.

Photographic coverage was provided in July and August 1975 using color film with the "C" camera (focal length = 88.47 millimeters) at 1:60,000 scale and the "Z" camera (focal length = 153.14 millimeters). The "E" camera (focal length 152.71 millimeters) was used with infrared film at 1:30,000 scale.

Analytic aerotriangulation was performed at the Washington Science Center in October 1976.

Compilation was performed at the Rockville, Maryland office in February 1977.

Field edit was accomplished during June and July 1977.

Application of Field Edit was completed in June 1978 at the Pacific Marine Center.

Final Review was performed at the Atlantic Marine Center in September 1986.

This Descriptive Report contains all pertinent information used to compile this final map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

CM-7414
TP-00523

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

Photogrammetric Plot Report
Yakutat Bay, Alaska
CM-7414

October 21, 1976

21. Area Covered

This report pertains to nine sheets in Yakutat Bay, Alaska. The sheets are TP-00613 thru TP-00620 of 1:20,000 scale and TP-00523 of 1:10,000 scale.

22. Method

Three strips were bridged by analytic aerotriangulation methods. The strips were adjusted to ground in the Alaska Zone, State Plane Coordinate System. Points were established for determining ratios of 1:60,000 scale offshore photography. Points were also established for setting models of 1:30,000 scale photography on sheet TP-00619. Ratios of 1:30,000 scale infrared, MHW photography were also determined for coverage of sheet TP-00619. Ratios have been ordered. All sheets were plotted on the Coradomat.

23. Adequacy of Control

A discrepancy exists between two horizontal control stations: CENTER RADIO TOWER, 1941 and YAKAIR, 1974. CENTER RADIO TOWER is a terminal station for strip 3 and YAKAIR is a terminal station for strip 2. In the vicinity of these stations the two strips overlap. Tie points indicate a difference of approximately 12 feet in X and 6 feet in Y.

YAKAIR is located at the Yakutat Airport. Three other points at the airport, with known positions were also measured. These points agree with CENTER RADIO TOWER, but not with Yakair. Stations at the airport were tied to datum in 1967 by triangulation and traverse from station CAVE, 1941. The azimuth station was BOLD, 1941 with CENTER RADIO TOWER used as a check. The check was 0.9 seconds.

The Geodesy Division checked the 1974 field data but could find nothing wrong. It was suggested that earthquake movement could be responsible for the discrepancy.

It was decided to complete the project even though the discrepancy has not been resolved. Strip 2 was adjusted on tie points from strip 3. YAKAIR was not used.

24. Supplemental Data

No supplemental data was used.

25. Photography

The photography was adequate.

Submitted by:

Don O. Norman

Don O. Norman

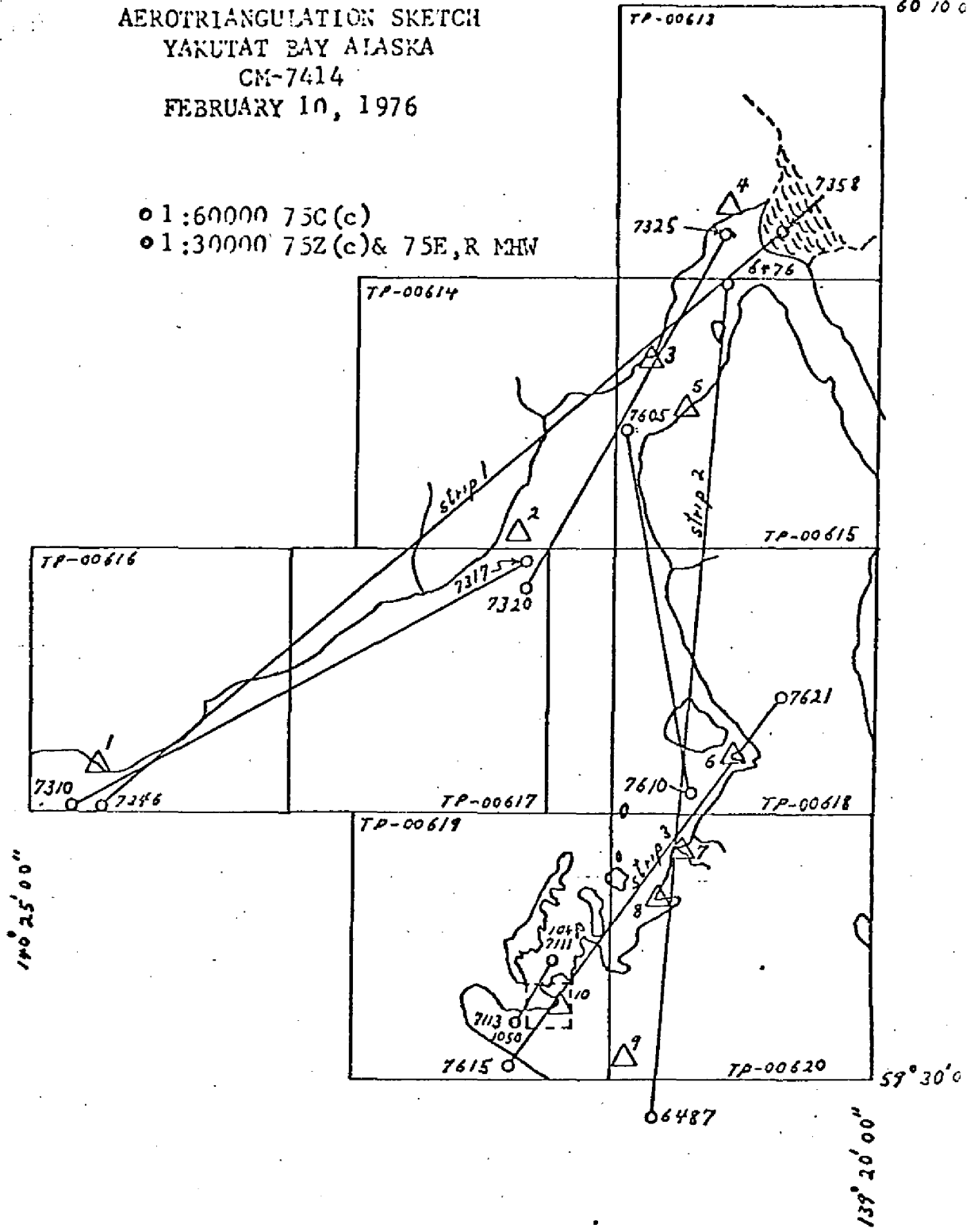
Approved by:

John D. Perrow Jr.

John D. Perrow, Jr.
Chief, Aerotriangulation Section

AEROTRIANGULATION SKETCH
 YAKUTAT BAY ALASKA
 CM-7414
 FEBRUARY 10, 1976

- 1:60000 75C(c)
- 1:30000 75Z(c) & 75E, R MHW



fit to control
(feet)

strip 1

1 BEACH 7ET (USGS), 1959	(0.3, 0.1)
2 BLIZ, 1974	(1.5, 1.3)
3 BANCAS, 1974	(5.3, 3.8)
5 DOLCE, 1974	(1.1, 2.3)
4 HUB, 1974	(0.2, 1.1)

strip 2

357801	(0.7, 5.6)
357802	(2.8, 7.6)
5 DOLCE, 1974	(2.1, 4.6)
6 LEAN, 1974	(4.5, 2.1)
7 KRUTOI, 1941	(2.5, 2.9)
8 GRASS, 1941	(2.1, 0.6)
486801	(1.5, 1.8)

strip 3

10 CENTER RADIO TOWER, 1941	(0.0, 0.0)
8 GRASS, 1941	(0.0, 0.0)
7 KRUTOI, 1941	(1.5, 1.0)
6 LEAN, 1974	(0.0, 0.0)

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS
		STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 1	
TP-00523	CM-7414				N. A. 1927	Coastal Mapping
Blood, 1941 ✓	59139 ✓					φ 59°32'41.507" ✓ λ 139°45'36.789" ✓
Bold, 1941 ✓	59139 ✓					φ 59°32'40.486" ✓ λ 139°44'31.565" ✓
Center Radio Tower, 1941 ✓	59139 ✓	616100 ✓				φ 59°32'38.125" ✓ λ 139°43'35.291" ✓
Yakutat N.W. 1 of 5 Radio Towers, 1974	Unadjusted Field G.P. ✓	000008 ✓				φ 59°32'39.088" ✓ λ 139°43'40.808" ✓
Yakutat Water Tank, 1974 ✓	Unadjusted Field G.P. ✓	000100 ✓				φ 59°33'06.782" ✓ λ 139°44'14.063" ✓
						φ λ
						φ λ
						φ λ
						φ λ
						φ λ
						φ λ
						φ λ
COMPUTED BY					COMPUTATION CHECKED BY	DATE
LISTED BY	J. Schad				LISTING CHECKED BY	DATE
HAND PLOTTING BY					HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT
CM-7414
TP-00523
December 1976

TP-00523 is a 1:10,000 scale manuscript that falls within the borders of 1:20,000 scale TP-00619. It affords more definitive hydrography of the harbor area for the town of Yakutat.

Compilation of TP-00523 was accomplished by a combination of methods and is discussed in item 31 below.

31. Delineation

The MHW line, foreshore features, and planimetry were compiled, for the most part, from 1:30,000 scale color photography taken in July 1975. This compilation was done on the B-8 stereoplotter, with constant reference to black-and-white infrared photography that was taken in tandem with the above mentioned color photography. All B-8 instrument interpretation was compared with the infrared ratio prints for agreement on the MHWL and foreshore features. This photography was flown when the stage of tide was 1.25 feet below MHW. As the area has a mean range of 7.8 feet, some photointerpretation was necessary in areas of gradual sloping shoreline.

In the area of the town of Yakutat, 1:60,000 scale color photography, taken at nearly half tide indicates a shallow area surrounding the large pier at the sound end of Monti Bay. This photography was taken 51 days after the 1:30,000 scale photographs. Stereoscopic examination and comparison of all the photography available in the area resulted in the decision to compile questionable areas from the 1:60,000 scale photos with a shallow or shoal symbol and refer to the field editor.

Photo-hydro support photographs (1:30,000 scale color ratioed to 1:10,000) were prepared in the usual manner. Good resection of photograph centers were obtained, shoreline points and other control points all held well, affording good coverage for positioning hydrographic signals.

As the sheet limits for this 1:10,000 scale manuscript were limited to 3°30' by 1°45', only two of the five photographs prepared for hydro support fall within the neatline limits. Care should be taken not to trim the cronaflex copies as sent to the field, in order to preserve the photograph centers and photogrammetric pass points.

32. Horizontal Control

(See Photogrammetric Plot Report.)

33. Supplemental Data

None.

CM-7414
TP-00523

34. Contours and Drainage

Contours and drainage are not applicable.

35. Shoreline and Alongshore Detail

(See Item 31 - Delineation).

The 1:60,000 scale color bridging photographs taken at approximately half tide were used to compile shallow and shoal areas bordering the MHWL. This was compiled at 1:20,000 scale and enlarged for the area of TP-00523. Details compiled on TP-00523 (1:10,000 scale) were not repeated on TP-00619 (1:20,000).

36. Offshore Details

The small island (59°33'30", 139°46'00") shown on the inset of chart 16761 and on hydro survey HS-6717 does not appear on the infrared photography taken at minus 1.25 ft. of MHW. It appears as a shoal area and should be investigated carefully during field edit and hydrographic survey HS-6717 also shows numerous rocks awash surrounding the island. These rocks awash do not appear on the infrared photography and are not clearly definable on the 1:60,000 color taken at half tide.

37. Landmarks and Aids to Navigation

There is one tank charted on existing charts 16761, 16016, 16760. There is a group of five radio towers that may be of possible landmark value in the town of Yakutat. There is one area R BN charted on existing charts 16761, 16016.

38. Control for Future Surveys

None.

39. Junctions

Refer to the Compilation Sources Form, NOAA Form 76-36B, item 5.

40. Horizontal and Vertical Accuracy

41 through 45. Inapplicable.

46. Comparison with Existing Maps

Comparison was made with USGS quadrangle:

Yakutat, Alaska, dated 1959; 1:63,360 scale.

47. Comparison with Nautical Charts

Comparison was made with the following nautical chart:

16761 (8455) - 11th Edition, August 28, 1976; 1:80,000 scale
(1:10,000 scale - Inset)

There is a large difference in horizontal position of the MHWL and shoreline features between the 1:10,000 scale inset on chart 16761 and this well controlled manuscript. The published shoreline was compiled apparently without proper control.

items to be Applied to Nautical Charts Immediately: Entire shoreline compilation.

Items to be Carried Forward - None

Submitted by:

R. Rich
R. Rich
Cartographer

Approved and Forwarded:

Jeter P. Battley Jr
J. P. Battley, Jr.
Chief, Coastal Mapping Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7414 (Yakutat Bay, Alaska)

TP-00523

Monti Bay

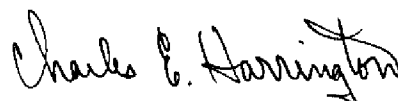
Puget Cove

Tzuse Shoal

Yakutat

Yakutat Roads

Approved:



Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services

FIELD EDIT REPORT

TP-00523

Monti Bay, Yakutat, Alaska

OPR-525-DA-77

NOAA Ship DAVIDSON

1977

51 METHODS

Field edit on manuscript TP-00523 was accomplished in accordance with project instructions OPR-525-DA-77, Yakutat Bay, Alaska, dated 23 February 1977. PMC OORDER procedures for field edit with hydroplot support in conjunction with hydrography were used. Items noted on the discrepancy print were transferred to the field print, which was used in the field along with the field photograph (matte ratio photograph 75Z7100) for feature identification.

Part of the field investigation was performed on 26 June 1977 (JD 177) and 14 July 1977 (JD 195) using a small skiff. Detached positions were obtained visually by three-point sextant fixes near times of low tide. Check angles were observed. Original data was recorded on the field print or in a sounding volume at the time of the investigation. All times are referenced to Greenwich Mean Time.

The remainder of the field investigation took place in conjunction with the hydrography of the area on 21 July 1977 (JD 202). Detached positions obtained at this time have been recorded and processed with the hydrographic records for H-9686 (DA-10-1-77) and are indexed on the MYLAR field edit sheet.

The closest tide gage installed during OPR-525-DA-77, located in Johnstone Passage, may provide some useful tides control. It is suggested, however, that the standard gage installed by the Pacific Tide Party on the cannery pier in Yakutat will provide more accurate control data for the working area.

Standard ink colors as per PMC OORDER were used to process the field edit data.

FIELD PHOTOGRAPHS & FIELD EDIT SHEET:	Violet - Verifications Red - Additions Green - Deletions
FINAL FIELD SHEET:	Black - Manuscript, no change Red - Additions

52 ADEQUACY AND COMPILATION

The map compilation is adequate and complete for charting with this field edit applied.

53 MAP ACCURACY

The high water line as depicted on the map is accurate.

54 RECOMMENDATIONS

This manuscript should be considered complete with corrections compiled from the field edit.

56 MISCELLANEOUS

The following questionable items from the discrepancy print have been disproved and deleted from the MYLAR field sheet.

<u>ITEM</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
Submerged stakes	59°32.6'N	139°46.0'W
" "	59°32.7'N	139°45.0'W
" "	59°32.7'N	139°44.6'W
Wreck	59°33.6'N	139°44.9'W
"	59°33.6'N	139°44.7'W
Pilings and/or Dolphins	59°32.8'N	139°44.2'W
Pier ruins	59°32.8'N	139°43.9'W
Dolphin	59°33.0'N	139°44.3'W

The questionable wreck at 59°33.6'N and 139°44.5'W was confirmed. The shoal at 59°33.5'N and 139°46.0'W was confirmed as a shoal, rather than a bare island as charted, and limits were delineated. No light was found on the pier located at 139°45.4'W and 59°32.7'N. The center radio tower of the group of five shown is not an aero beacon as charted; it is a non-directional radio beacon with a non-rotating red aircraft warning light on top. The other four towers of the group also have the red warning light, making identification of the center tower extremely difficult, though not impossible, from seaward. The water tower (charted "tank") at 59°32'45"N and 139°43'39"W is no longer considered to be of landmark value due to the growth of trees around it. *INCORRECT (See Chart and 76-41)*

NOAA forms 76-40 ("Non-floating Aids of Landmarks for Charts") have been completed and are appended to this manuscript. Also appended is a scaled diagram of the new Atlantic-Richfield Company pier in Monti Bay and a

copy of an aerial photograph of the facility indicating its position in the bay.

Submitted by,

See *G. E. Wheaton*
Gerald E. Wheaton
LTJG, NOAA

Approved and Forwarded by,

for *C. William Hoyle*
Christian Andreasen
CDR, NOAA
Commanding Officer

REVIEW REPORT
SHORELINE

TP-00523

61 - GENERAL STATEMENT

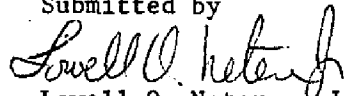
See Summary included with this report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

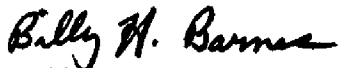
Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIESA comparison was made with U.S.G.S. quadrangle:
Yakutat (C-5), Alaska, scale 1:63,360, and dated 1959.64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYSA comparison was made with:
Advance Copy H-9686, 1:10,000 scale approved date August 27, 1980;65 - COMPARISON WITH NAUTICAL CHARTSA comparison was made with N.O.S. Charts:
Chart 16760, 7th edition, 1:300,000 scale, dated March 16, 1985
Chart 16761, 13th edition, 1:80,000 scale, dated August 18, 1984.66 - ADEQUACY OF RESULTS AND FUTURE SURVEYSThis map complies with Project Instructions and meets the
requirements for National Standards of Map Accuracy.

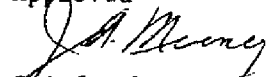
Submitted by


Lowell O. Neterer, Jr.
Final Reviewer
September 19, 1986

Approved for forwarding


Billy H. Barnes
Chief, Photogrammetric Section

Approved


Chief, Photogrammetric Section
Rockville
Chief, Photogrammetry Branch
Rockville

RESPONSIBLE PERSONNEL		ORIGINATOR
TYPE OF ACTION	NAME	<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
OBJECTS INSPECTED FROM SEAWARD	G. E. Wheaton, LTJG, NOAA	FIELD ACTIVITY REPRESENTATIVE
POSITIONS DETERMINED AND/OR VERIFIED	C. Andreasen, CDR, NOAA	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	J. Minton	<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)		
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) 8. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	
FIELD 1. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	11. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	111. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.		

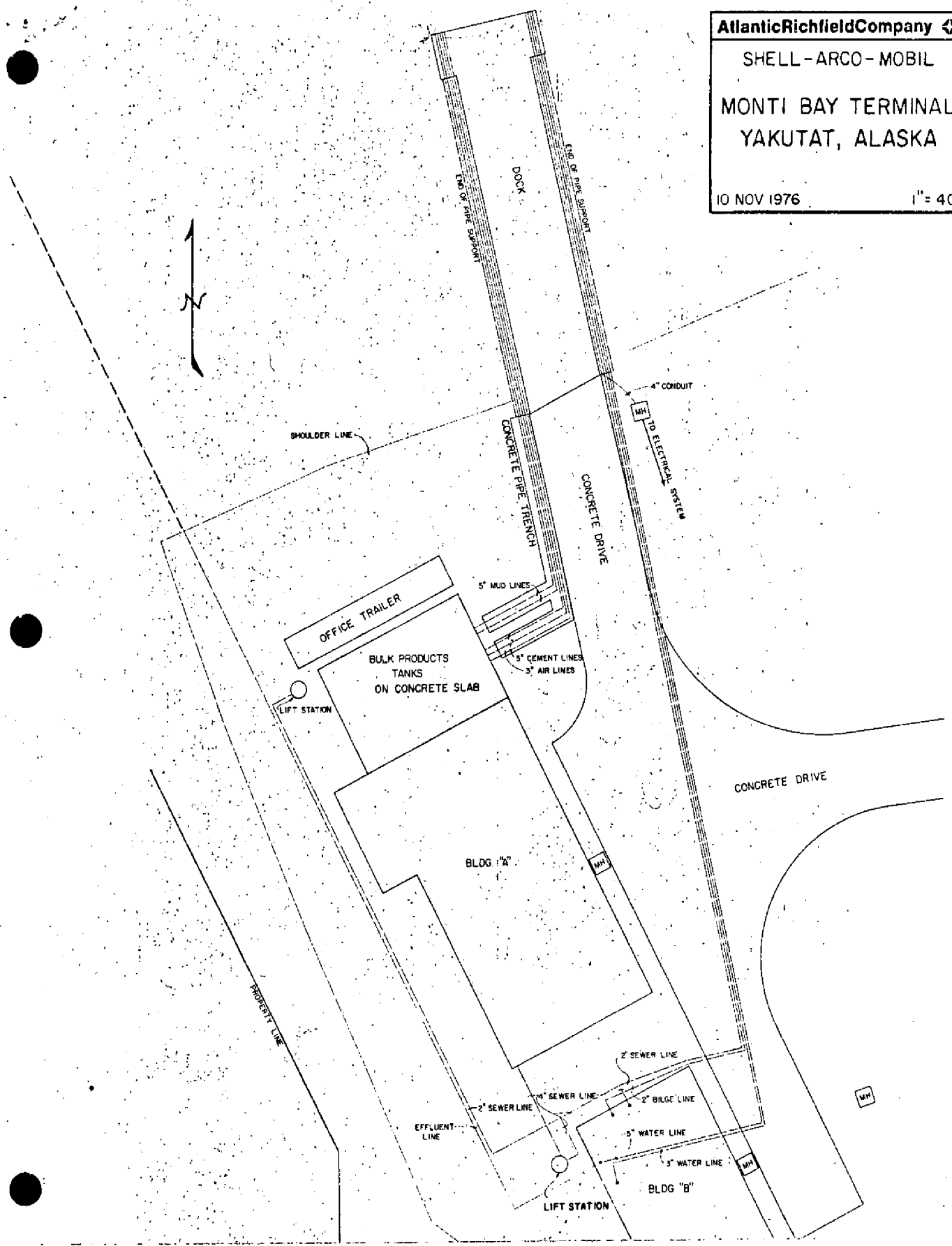
TYPE OF ACTION	RESPONSIBLE PERSONNEL		ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	G. E. Wheaton, LTJG, NOAA		<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	C. Andreasen, CDR, NOAA		FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	J. Minton		<input type="checkbox"/> OFFICE ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' <i>(Consult Photogrammetric Instructions No. 64.)</i>			
<p>OFFICE</p> <p>1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75</p> <p>FIELD</p> <p>I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection</p> <p>A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p>	<p>FIELD (Cont'd)</p> <p>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982</p> <p>II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75</p> <p>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75</p> <p>**PHOTOGAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</p>		

AtlanticRichfieldCompany

SHELL-ARCO-MOBIL
MONTI BAY TERMINAL
YAKUTAT, ALASKA

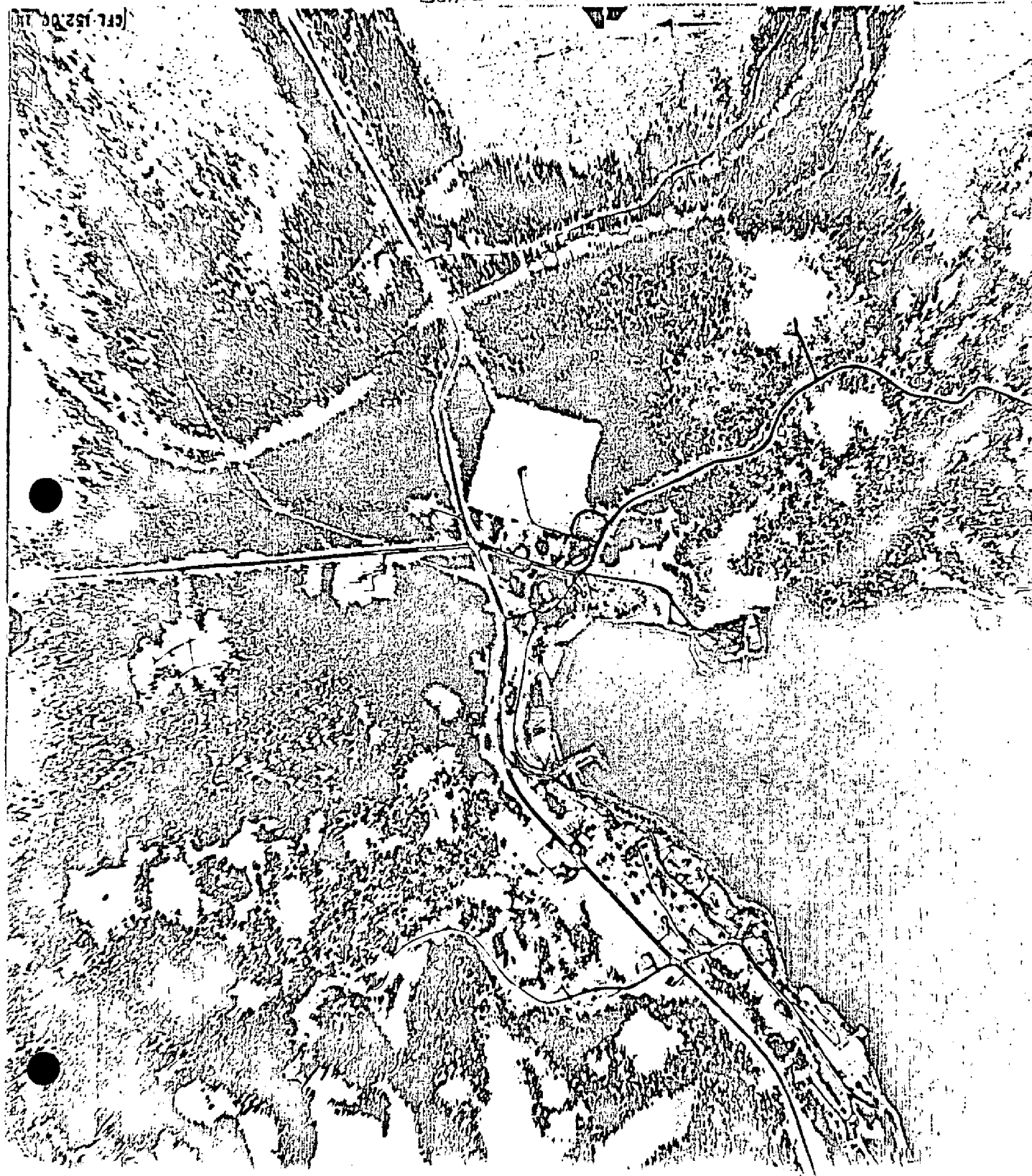
10 NOV 1976

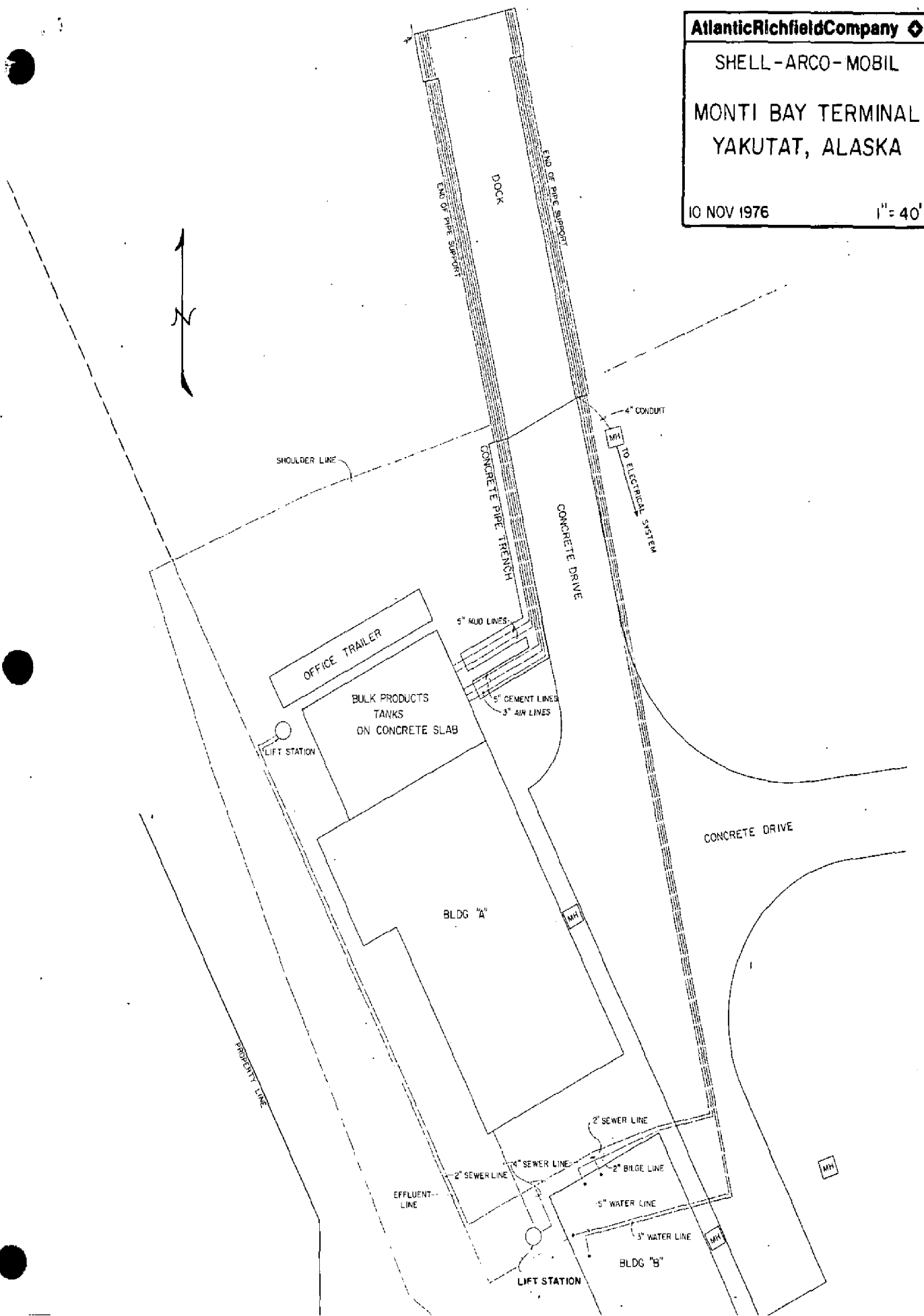
1" = 40'



SCALE 1:12000

(CFL 152'00 TH)





SCALE 1:12000

