



DEPARTMENT OF THE ARMY  
MOBILE DISTRICT, CORPS OF ENGINEERS  
P.O. BOX 2288  
MOBILE, ALABAMA 36628-0001

REPLY TO  
ATTENTION OF:

**CESAM-RD-C**  
**PUBLIC NOTICE NO. SAM-2011-1813-DEM**

**December 21, 2011**

**JOINT PUBLIC NOTICE**  
**U.S. ARMY CORPS OF ENGINEERS**  
**AND**  
**STATE OF ALABAMA**  
**DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

**REQUEST FOR AUTHORIZATION TO DRILL SHALLOW NATURAL GAS WELL**  
**AND INSTALL PIPELINE FROM PROPOSED WELL TO EXISTING PLATFORM IN**  
**LOWER MOBILE BAY FRONTING BALDWIN COUNTY, ALABAMA.**

TO WHOM IT MAY CONCERN:

This District has received an application for a Department of the Army permit pursuant to Section 10 of the River and Harbor Act of 1899 (33 USC 403) and 404 of the Clean Water Act (33 USC 1344). Please communicate this information to interested parties.

**APPLICANTS:**       **Legacy Resources Co., L.P.**  
                              **Mr. Carl F. Southern**  
                              **1423 West Causeway Approach**  
                              **Mandeville, Louisiana 70471**

**AGENT:**               **William E. Workman and Associates**  
                              **Dr. William E. Workman**  
                              **Post Office Box 745**  
                              **Lillian, Alabama 36549**

**LOCATION:** Lower Mobile Bay, Baldwin County, Alabama, Section 35, Township 2 South, Range 28 West; Latitude 30.2698° to 30.2800° North and Longitude -87.0010° to -87.9681° West.

**WATERWAY:** Lower Mobile Bay, Baldwin County, Alabama, Section 35, Township 2 South, Range 28 West; Latitude 30.2698° to 30.2800° North and Longitude -87.0010° to -87.9681° West.

**WORK:** Applicant requests authorization to drill one shallow natural gas well in Mobile Bay Block 77, and to install a 4-inch pipeline from the proposed well to an existing platform in Block 78, a distance of 2.09 miles. The 4-inch pipeline will carry produced sweet natural gas from the proposed well to the AL78 "A" platform. The proposed well will be drilled by a self-contained posted drill barge. The work may require the placement of up to 12 temporary timber or steel piles for the placement and mooring of tank and hopper barges to receive and contain drilling and other wastes for remote disposal in approved upland sites. To protect against scour from currents, a 70-ft.

x 230-ft. x 5-ft. limestone pad will be placed on the Bay bottom as foundation for the drill barge. Following completion of the well, the applicant will install an 8-ft. x 20-ft. well protector anchored by four piles. The well protector, approved by the Alabama Oil and Gas Board, will have two navaid lights and one radar reflector.

All other wastes not approved for *in situ* disposal pursuant to the applicant's existing NPDES permit will be collected and retained on the drill barge and/or pumped to supply vessels for remote disposal in approved upland sites. Approximately 2 weeks will be required to drill, test, and complete the well, scheduled for Spring, 2012.

The pipeline will be fabricated on a pipe lay barge, lowered to the bay floor, and buried, by hydraulic jetting, to provide a minimum cover of 4 feet. Following installation, the line will be hydrostatically tested with bay water. Discharge of the test water will be in compliance with the required NPDES permit. No discharge of waste materials will occur unless authorized by an NPDES permit pursuant to Section 402 of the Clean Water Act.

**PROJECT PURPOSE:** The well is expected to produce sweet (no hydrogen sulfide), Miocene natural gas. The production of natural gas from Legacy's proposed well in Alabama State Waters is consistent with the National goal of increasing development of domestic hydrocarbon resources.

The applicant has applied for state water quality (WQ) certification in accordance with Section 401(a) (1) of the Clean Water Act, and for coastal zone (CZ) consistency in accordance with the State Coastal Zone Management Program. Upon completion of the required advertising and public comment review, a determination relative to WQ certification and CZ consistency will be made by the Alabama Department of Environmental Management.

This public notice is being distributed to all known interested persons in order to assist in developing facts on which a decision by the U.S. Army Corps of Engineers (Corps) can be based. For accuracy and completeness of the record, all data in support of or in opposition to the proposed work should be submitted in writing setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition. The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the

preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state with particularity, the reasons for holding a public hearing. Evaluation of the probable impacts involving deposits of dredged or fill material into waters of the United States will include the application of guidelines established by the Administrator of the U.S. Environmental Protection Agency. This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. This project will impact approximately 31,680 square feet of water bottoms and Essential Fish Habitat (EFH) for managed species in the Gulf of Mexico. Disturbance of this nursery habitat may adversely affect various aquatic species, but the District Commander has made a preliminary determination that this site-specific adverse effect will not be substantial. Our final determination relative to project impacts to EFH and the need for mitigation measures are subject to review by and coordination with the National Marine Fisheries Service and the Gulf of Mexico Fishery Management Council.

The National Register of Historic Places will be consulted for properties listed in or eligible for the National Register which are known to exist and would be affected by the proposed work. Additional notification will be furnished to the State Historic Preservation Officer via this Public Notice. This review constitutes the full extent of cultural resources investigations unless comment to this notice is received documenting that significant sites or properties exist which may be affected by this work, or that adequately documents that a potential exists for the location of significant sites or properties within the permit area. Copies of this notice are being sent to the State Historic Preservation Officer and the U.S. Department of the Interior, National Park Service, and Division of Archeological Services.

Preliminary review of this application and the U.S. Department of the Interior List of Endangered and Threatened Wildlife and Plants indicate that the proposed activity may affect listed species, or their critical habitat. This notice and application will be coordinated with the U.S. Fish and Wildlife Service (FWS) to assess if the proposed activity will affect listed endangered or threatened species, or their critical habitat. Further coordination with the FWS will be performed as a result of this notice. The National Marine Fisheries Service requires the evaluation of impacts to Essential Fish Habitat of estuarine species. After review of public comments, the Alabama Department of Environmental Management will determine if the proposal complies with and will be operated or maintained in a manner consistent with the Clean Water Act and the Coastal Zone Management Program.

Correspondence concerning this Public Notice should refer to **SAM-2011-1813-DEM** and should be mailed to:

District Commander, U.S. Army Engineer District, Mobile  
Attention: Regulatory Division (RD-C)  
Post Office Box 2288,  
Mobile, Alabama 36628-0001

**CESAM-RD-C  
PUBLIC NOTICE NO. SAM-2011-1813-DEM**

**December 21, 2011**

with a copy furnished to:

Alabama Department of Environmental Management  
4171 Commanders Drive  
Mobile Alabama 36615.

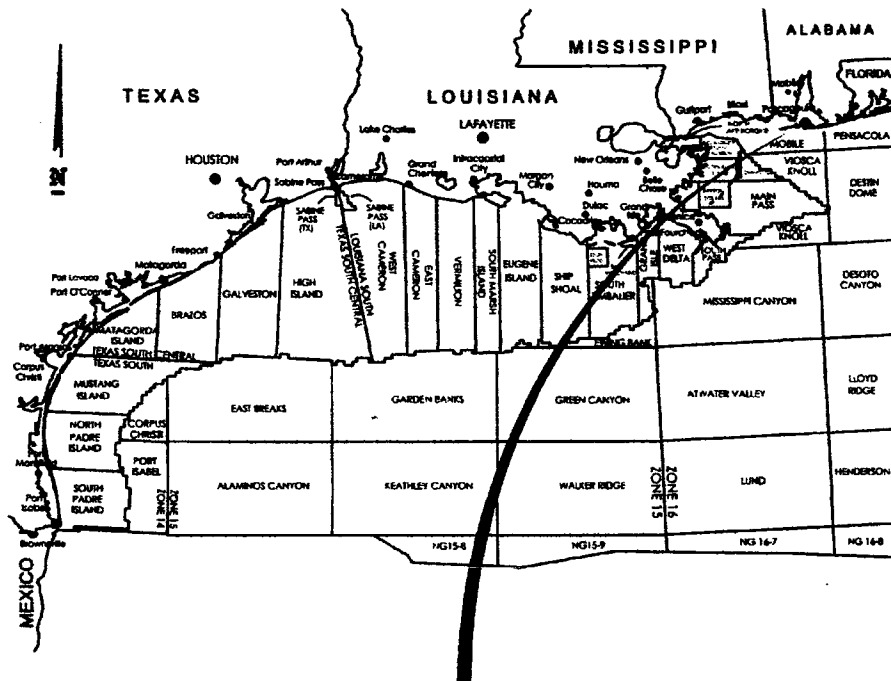
**All Comments should be received no later than 30 days from the date of this Public Notice.**

If you have any questions concerning this publication, you may contact the project manager, Mr. Don Mroczko at telephone number (251) 690-3185 or [donald.e.mroczko@usace.army.mil](mailto:donald.e.mroczko@usace.army.mil). Please refer to the Public Notice Number SAM-2011-1813-DEM.

For additional information about our Regulatory Program, please visit our web site at [www.sam.usace.army.mil/RD/reg](http://www.sam.usace.army.mil/RD/reg), and please take a moment to complete our customer satisfaction survey while you're there. Your responses are appreciated and will allow us to improve our services.

MOBILE DISTRICT  
U.S. Army Corps of Engineers

Enclosure  
-Permit Drawings (7 pages)



**FROM ALABAMA AREA BLOCK 77 SL 615 #5 WELL  
TO ALABAMA AREA BLOCK 78 "A" PLATFORM**

**VICINITY MAP**



**PROPOSED 4" GAS PIPELINE**  
FROM ALABAMA AREA BLOCK 77 SL 615 #5 WELL  
TO ALABAMA AREA BLOCK 78 "A" PLATFORM



PREPARED FOR: **LEGACY RESOURCES CO., L.P.**

DATE SURVEYED: **SEPT 16-17 & 28, 2011**



FILENAME: **11-0829\_Permitt-1**

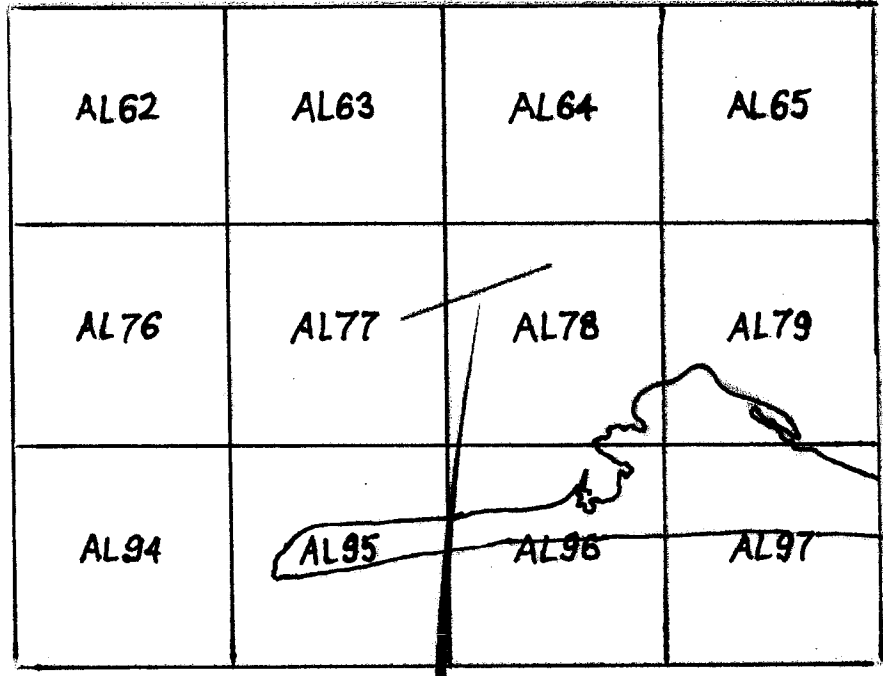
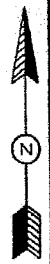
CTI JOB NO.: **9965**

DRAFTED BY: **C.D.B.**

REV NO.: **0**

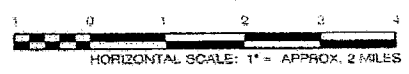
DATE: **OCT 18, 2011**

SHEET: **1 OF 4**

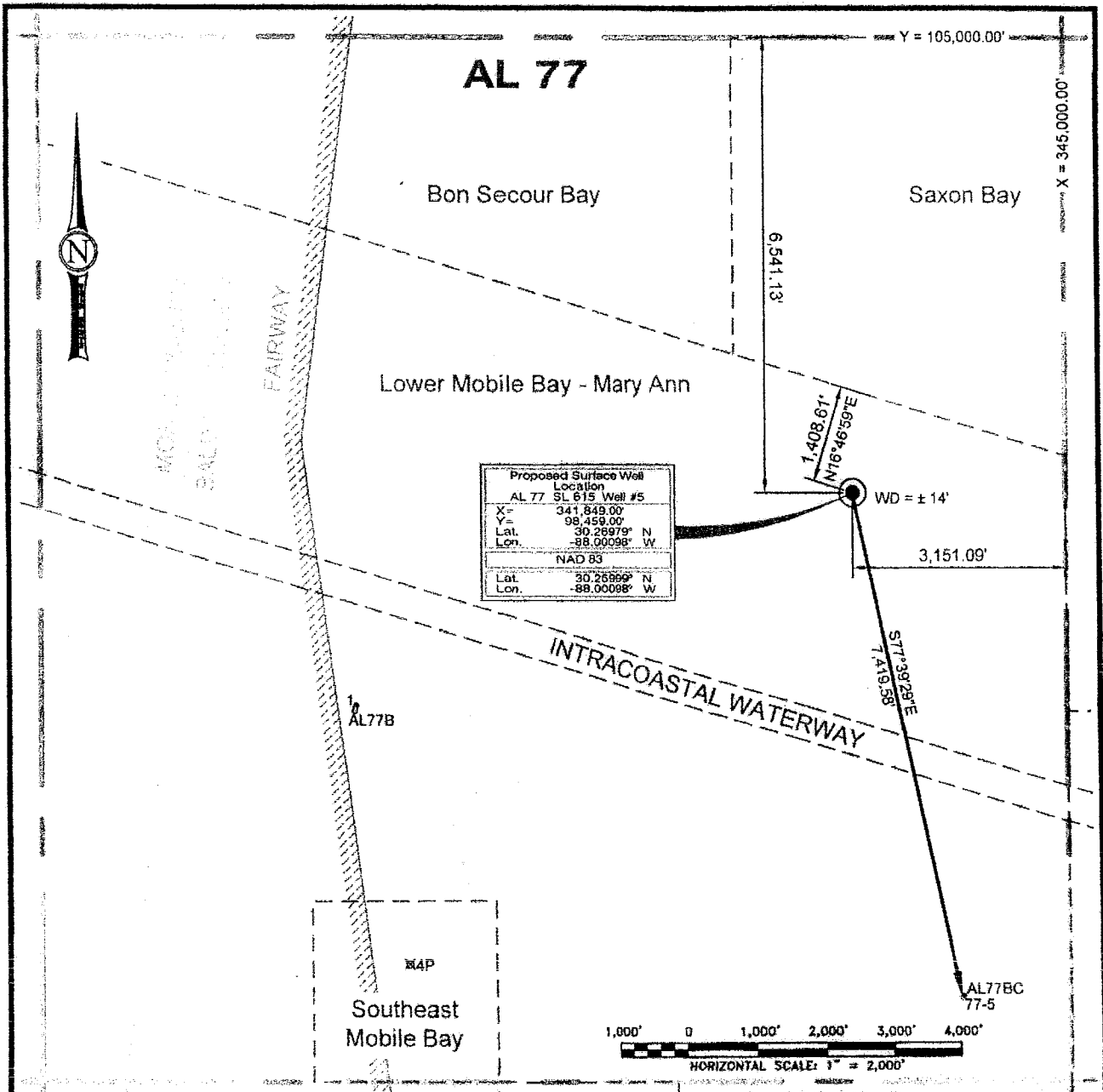


FROM ALABAMA AREA BLOCK 77 SL 615 #5 WELL  
TO ALABAMA AREA BLOCK 78 "A" PLATFORM

AREA MAP



<b>PROPOSED 4" GAS PIPELINE</b> FROM ALABAMA AREA BLOCK 77 SL 615 #5 WELL TO ALABAMA AREA BLOCK 78 "A" PLATFORM	
	PREPARED FOR: LEGACY RESOURCES CO., L.P.
	DATE SURVEYED: SEPT 16-17 & 29, 2011
	FILENAME: 11-0872_P1.mxd-2
	GTI JOB NO.: 9965
	DRAFTED BY: C.D.B.
	REV NO.: 0
	DATE: OCT 18, 2011
	SHEET: 2 OF 4

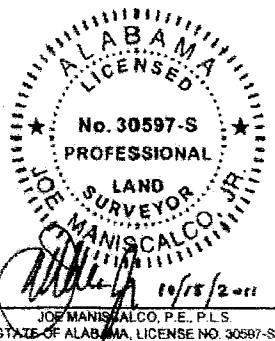


**Notes:**

- Coordinates are referenced to the Alabama Coordinate System of 1927, West Zone. Units are in U.S. Survey Feet.
- Water depth at proposed well #5 is approximately 14' as furnished in a report issued by Telesis Geophysical Services, LLC.

**Legend:**

- - Denotes proposed surface location.
- - Denotes existing well surface location.
- ⊗ - Denotes plug and abandoned well surface location.
- - Denotes unit boundary.

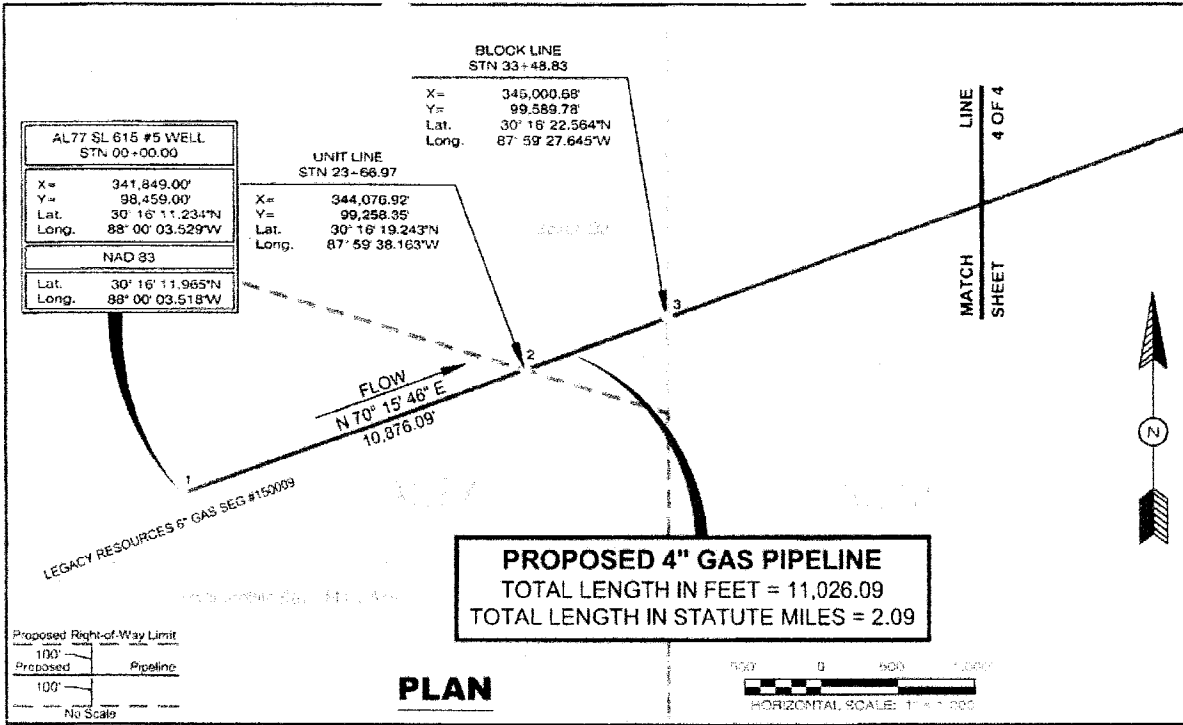


**PROPOSED SURFACE  
WELL LOCATION**  
 STATE TRACT 77  
 STATE LEASE 615 WELL #5  
 BALDWIN COUNTY, ALABAMA

PREPARED FOR: LEGACY RESOURCES CO., LP  
 LOCATION: LAFAYETTE, LA

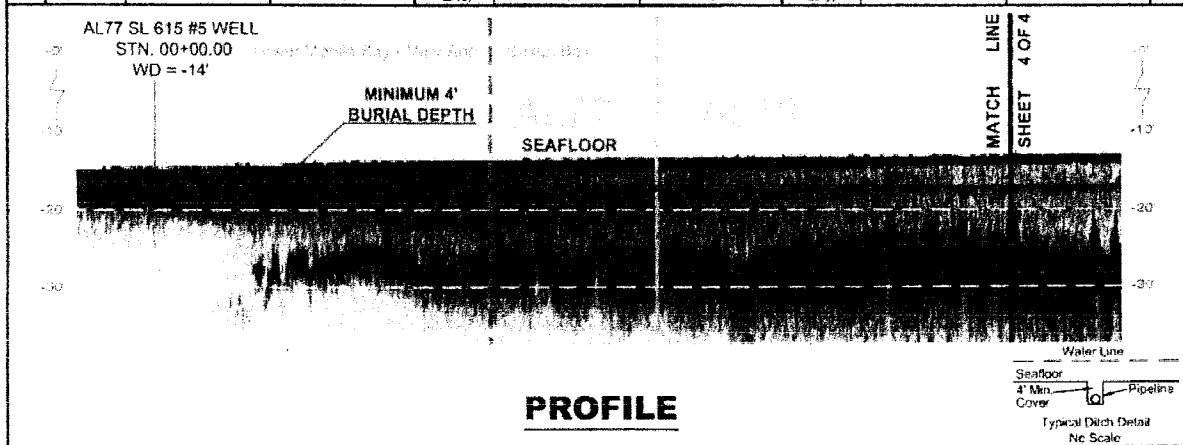


DRAWING NO. 30597-S-AL77-Well #5 surface  
 DRAFTED BY: B.A.B. - REV. NO. 0  
 CHK BY: ALM. - DATE: OCT 18, 2011  
 APP. BY: J.M. - SHEET: 1 OF 1



**PROPOSED PIPELINE COORDINATES**

TIE	X	Y	TIE	X	Y	TIE	X	Y
1 (AL77 #5)	341,849.00'	98,459.00'	2 (Unit Line)	344,076.92'	99,258.35'	3 (Block Line)	345,000.68'	99,589.78'



I certify this plan represents the proposed pipeline route based on a survey performed under my supervision in accordance with generally accepted offshore survey practices.

**ALABAMA**  
LICENSED  
NO. 30597-S  
PROFESSIONAL  
LAND SURVEYOR  
JOE MANISALCO, JR.  
10/18/2011  
STATE OF ALABAMA, LICENSE NO. 30597-S

**NOTES:**

- Coordinates are referenced to the Alabama Coordinate System of 1927, West Zone. Units are in U.S. Survey Feet.
- Features of record which may exist outside the survey area are not represented on this map.

**Legends:**

- BLOCK LINE
- UNIT LINE
- PROPOSED PIPELINE ROUTE
- PIPELINE POSITION BASED ON THIRD PARTY DATA
- PROPOSED PIPELINE POINT

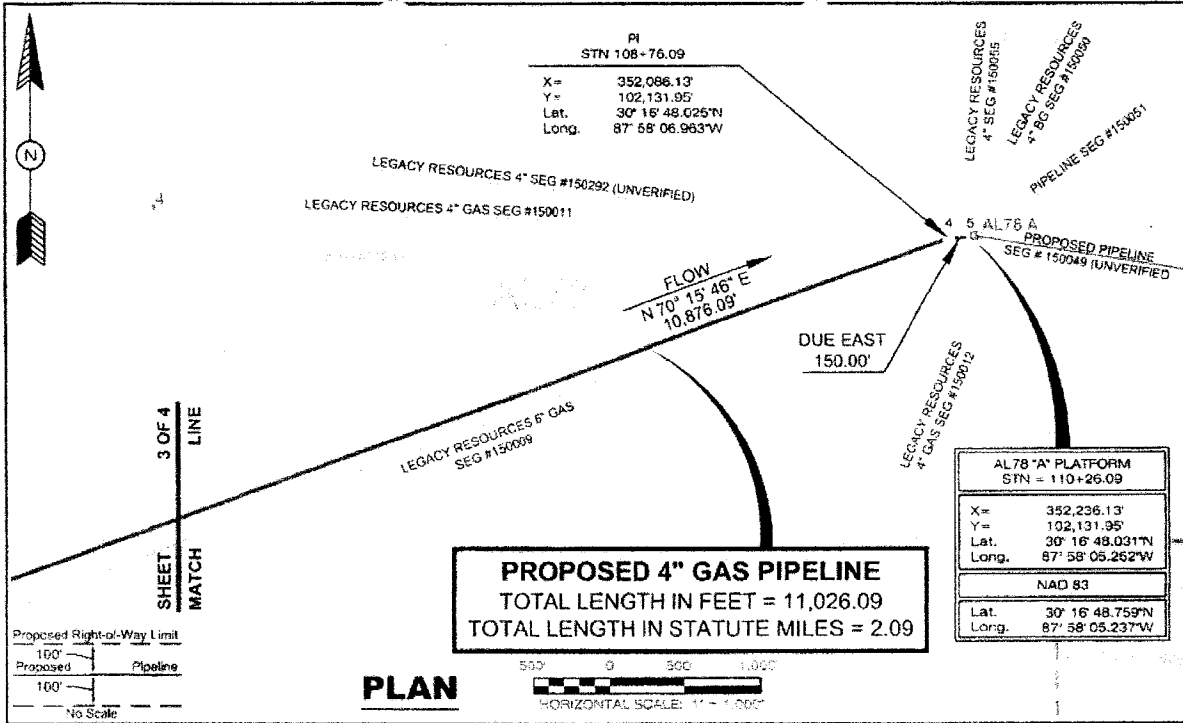
**LEGACY**

**PROPOSED 4" GAS PIPELINE**  
FROM ALABAMA AREA BLOCK 77 SL 615 #5 WELL  
TO ALABAMA AREA BLOCK 78 "A" PLATFORM

PREPARED FOR:	LEGACY RESOURCES CO., L.P.		
DATE SURVEYED:	SEPT 16-17 & 29, 2011		
FILENAME:	11-0829_Form-3	CTI JOB NO.:	9965
DRAFTED BY:	C.D.B.	REV NO.:	0
DATE:	OCT 18, 2011	SHEET:	3 OF 4

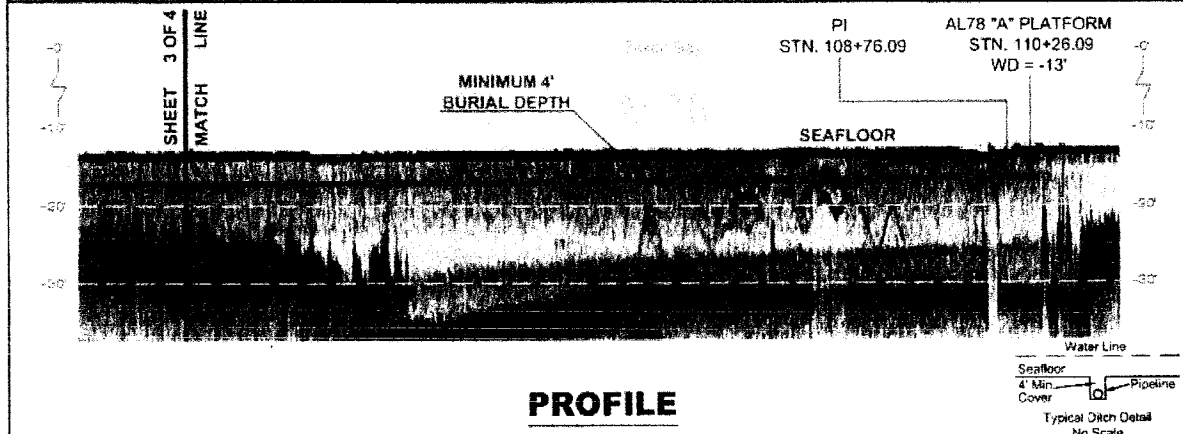
**cochrane**  
TECHNOLOGIES, INC.

**TGS**  
TELEMECHANICAL SERVICES, LLC



**PROPOSED PIPELINE COORDINATES**

TIE	X	Y	TIE	X	Y
4 (PI)	352,086.13'	102,131.95'	5 (AL78 'A')	352,236.13'	102,131.95'



I certify this plan represents the proposed pipeline route based on a survey performed under my supervision in accordance with generally accepted offshore survey practices.

**ALABAMA**  
 LICENSED  
 No. 30697-S  
**PROFESSIONAL**  
**LAND SURVEYOR**  
 JOE MANISCALCO, JR.  
 JOE MANISCALCO, P.E., P.L.S.  
 STATE OF ALABAMA, LICENSE NO. 30697-S

**NOTES:**

- Coordinates are referenced to the Alabama Coordinate System of 1927, West Zone. Units are in U.S. Survey Feet.
- Features of record which may exist outside the survey area are not represented on this map.

**Legend:**

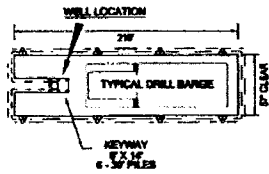
- - - - - UNIT LINE
- - - - - PROPOSED PIPELINE ROUTE
- - - - - PIPELINE POSITION BASED ON THIRD PARTY DATA
- - - - - PIPELINE POSITION PER SURVEY DATA
- - - - - PROPOSED PIPELINE POINT

**PROPOSED 4" GAS PIPELINE**  
 FROM ALABAMA AREA BLOCK 77 SL 615 #5 WELL  
 TO ALABAMA AREA BLOCK 78 "A" PLATFORM

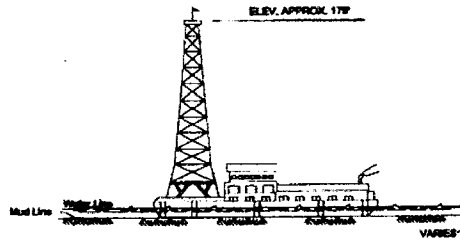
<p><b>cochrane</b> TECHNOLOGIES, INC.</p> <p><b>TGS</b> TGS ENERGY SERVICES, L.L.C.</p>	<p>PREPARED FOR: LEGACY RESOURCES CO., L.P.</p> <p>DATE SURVEYED: SEPT 16-17 &amp; 29, 2011</p> <p>FILENAME: 11-0023_Pemr-3    CTI JOB NO.: 9965</p> <p>DRAFTED BY: C.D.B.    REV NO.: 0</p> <p>DATE: OCT 18, 2011    SHEET: 4 OF 4</p>
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# TYPICAL POSTED DRILL BARGE

PLAN



ELEVATION

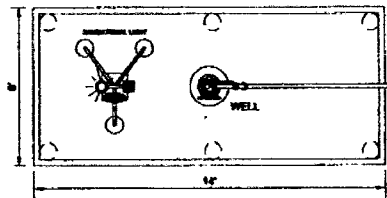


**NOTE**  
 8 TEMPORARY 3 PILE CLUSTER TO BE  
 DRIVEN TO ARREST BY REMOVING DRILL BARGE  
 FROM LOCAL TEMPORARY CLUSTERS TO BE  
 PULLED WHEN PERMANENT WELL GUARD  
 IS INSTALLED.

TYPICAL DIESEL  
 POWERED DRILL BARGE

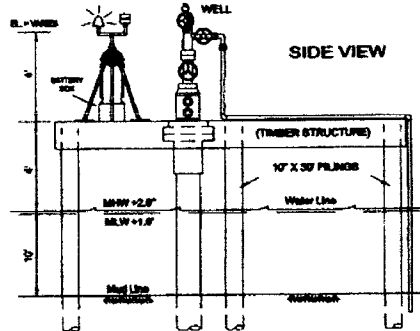
NOT TO SCALE

TOP VIEW



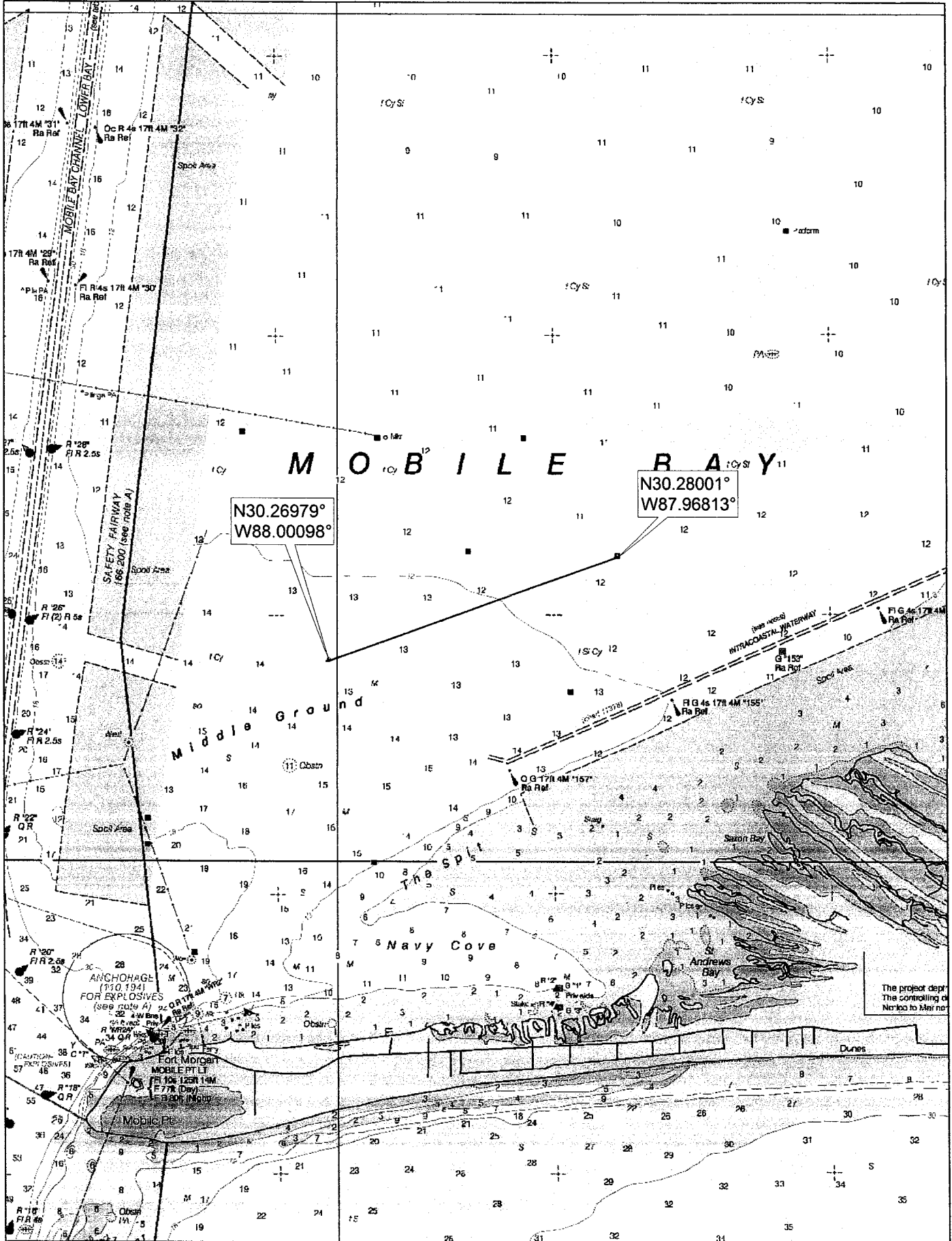
NAVIGATIONAL  
 LIGHT

SIDE VIEW



TYPICAL  
 WELL HEAD PROTECTOR

NOT TO SCALE



N30.26979°  
W88.00098°

N30.28001°  
W87.96813°

The project depth  
The controlling of  
Notice to Mariners

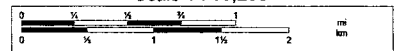
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www.delorme.com



Scale 1 : 56,250



1" = 4,687.5 ft Data Zoom 11-7