

UNITED STATES GOVERNMENT  
MEMORANDUM

March 24, 2003

To: Public Information (MS 5034)  
From: Plan Coordinator, FO, Plans Section (MS  
5231)

Subject: Public Information copy of plan  
Control # - N-07711  
Type - Initial Exploration Plan  
Lease(s) - OCS-G19866 Block - 276 Main Pass Area  
OCS-G19869 Block - 287 Main Pass Area  
Operator - Stone Energy Corporation  
Description - Well E  
Rig Type - JACKUP

Attached is a copy of the subject plan.

It has been deemed submitted as of this date and is under review for approval.

  
Karen Dunlap  
Plan Coordinator

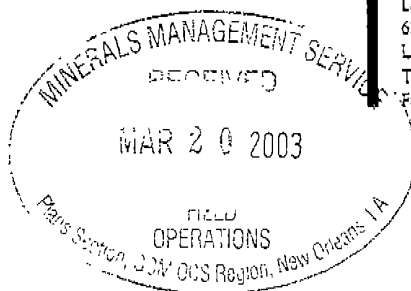
Site Type/Name	Botm Lse/Area/Blk	Surface Location	Surf Lse/Area/Blk
WELL/E	G19866/MP/276	3400 FNL, 917 FWL	G19869/MP/287

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NOTED - SCHEXNAILDRE



N-7711



P.O. Box 52807  
Lafayette, Louisiana 70505  
625 East Kalliste Saloom Road  
Lafayette, Louisiana 70508  
Telephone: (337) 237-0410  
Fax: (337) 272-0435

March 20, 2003

U.S. Department of Interior  
Minerals Management Service  
1201 Elmwood Park Blvd.  
New Orleans, LA 70123

Attn: Mr. Nick Wetzel  
Section Chief  
Plans Section  
Office of Field Operations

RE: Initial POE  
Main Pass Block 287/ Main Pass 276  
OCS-G 19869/OCS-G 19866  
Offshore, Mississippi  
Main Pass 288 / OCS-G 01665  
Offshore, Louisiana

Mr. Wetzel,

In accordance with the provisions of Title 30 CFR 250, Stone Energy Corp. hereby submits for your review and approval nine (9) copies of a Initial Plan of Exploration Coordination Document for Lease OCS-G 19869, Main Pass Block 287, OCS-G 19866, Main Pass Block 276, Offshore Mississippi and OCS-G 01665, Main Pass Block 288, Offshore, Louisiana. Five (5) copies are "Proprietary Information" and six (6) copies are "Public Information". Excluded from the Public Information are certain geologic discussions, depths of well, bottom hole location and structure map.

Stone Energy Corp. anticipates activities will commence under this proposed Initial POE on or about May 1, 2003 or as soon as the applicable permits are approved. Any assistance you can give to expedite the approval of this plan will be greatly appreciated. Main Pass Block 276 Primary Term ends June 30, 2003.

Should you require additional information, please contact me at (337) 237-0410.

Sincerely,

*Amy Fell*  
Amy Fell  
Compliance Assistant

**PUBLIC  
INFORMATION**

- Enclosures:
- (5) Copies of Supplemental POE (Proprietary)
  - (6) Copies of Supplemental POE (Public)
  - (3) Folders- Shallow Hazard Statements w/ Bathymetry and Hazard Map
  - (1) Set of Raw Hazard Survey Data
  - (1) Seismic Map



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Main Pass 288 / OCS-G 01665  
Offshore, Louisiana

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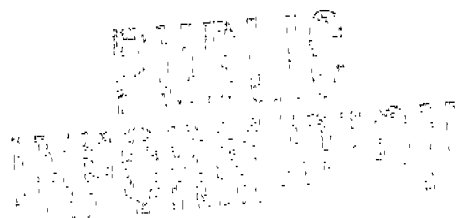
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Sincerely,

Amy Fell  
Compliance Assistant

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(3) Folders- Shallow Hazard Statements w/ Bathymetry and Hazard Map  
(1) Set of Raw Hazard Survey Data  
(1) Seismic Maps



CONTROL No. <u>N-7711</u>
REVIEWER: Karen Dunlap
PHONE: (504) 736-2535

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# INITIAL PLAN OF EXPLORATION DOCUMENT

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FOR

**STONE ENERGY CORP.**

*GULF OF MEXICO  
OFFSHORE, LOUISIANA*

***MAIN PASS 287 / MAIN PASS 288 / MAIN PASS 276  
LEASE OCS-G 19869 / LEASE OCS-G 01665 / OCS-G 19866***

COMPANY CONTACT

Tom Shinn

Stone Energy Corp.

P.O. Box 52807

Lafayette, LA 70505

Phone: (337) 237-0410

Fax: (337) 233-2276

**MARCH 2003**

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**STONE ENERGY CORP.**  
**INITIAL PLAN OF EXPLORATION DOCUMENT**  
**MAIN PASS 287 / MAIN PASS 288 / MAIN PASS 276**  
**OCS-G 19869 / OCS-G 01665 / OCS G-19866**

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Stone Energy Corp. (Stone), as owner and operator of subject lease, submits the following information for planned development and production activities in, offshore, Louisiana. This proposed INITIAL PLAN OF EXPLORATION DOCUMENT (INITIAL POE) in accordance with the regulations contained in Title 30 CFR 250.204 and more specifically defined in the Minerals Management Service (MMS) Notice to Lessees (NTL) and Operators dated August 29, 2002.

***I. HISTORY OF LEASE***

**LEASE OCS-G 19869** was acquired at Gulf of Mexico Lease Sale No. 169, effective date March 18, 1998. Primary Term beginning August 1, 1998 and ending July 1, 2003. Stone Energy currently holds the lease. Stone Energy is designated operator of the lease.

**LEASE OCS-G 01665** was acquired at Gulf of Mexico Lease Sale No. 16, effective date July 1, 1967. Stone Energy and Fairways Specialty currently hold the lease. Stone Energy is designated operator of the lease. The subject lease is being held by production.

**LEASE OCS-G 19866** was acquired at Gulf of Mexico Lease Sale No. 169, effective date March 18, 1998. Primary Term beginning July 1, 1998 and ending June 30, 2003. PetroQuest Energy L.L.C. assigns Stone Energy as 100% record titleholder in OCS-G 19866 effective March 3, 2003, subject to the approval of the Minerals Management Service (**Attachment "J"**). *Excluded from Public Copy*. The assignment of 100% record titleholder from PetroQuest Energy L.L.C. to Stone Energy; Stone Energy becomes designated operator of Lease OCS-G 19866 by default.

***II. LEASE STIPULATIONS***

In response to the Military Areas Stipulation being invoked in this block, Stone will contact the command headquarters for Military Warning Area EWTA-1E (Eglin Air Force Base, Florida) Telephone – 850-882-5362 for the purpose of entering into an agreement concerning the control of electromagnetic emissions and the use of boats and aircraft in the warning areas.

In response to Live Bottoms (Pinnacle Trend) Stipulation, a live bottom survey report containing a hazard map has been prepared utilizing remote sensing techniques. The hazard map shall be prepared for the purpose of determining the presence on absence of live bottoms. Reference is made on Page 6 of Shallow Hazard Report. Previously submitted with application Control Number N-7671.

Main Pass 287, Main Pass 288, and Main Pass 276 is not one of the blocks listed on the Letter to Lessees (LTL) issued by MMS on September 5, 1995 as being within the high-probability area for

prehistoric or historic archaeological resources on the OCS. Therefore, an Archaeological Assessment is not included in this initial plan. A Shallow Hazard Survey Report for MP 287, Main Pass 288, and Main Pass 289 was previously submitted with application Control Number N-7671. Main Pass 288 and Main Pass 276 shallow hazard survey is not applicable.

**III. BONDING REQUIREMENTS**

In fulfillment of the requirements of MMS Notice to Lessees and Operators (NTL) 98-18N, dated December 28, 1998, which amends Title 30 CFR Part 256 surety bond requirements applicable to OCS lessees and operators, please be advised that Stone has in place a \$3 million area wide bond number (61S103620560BCM) to cover operations on this lease in the Gulf of Mexico.

**IV. SCHEDULE OF OPERATIONS**

Under this proposed INITIAL PLAN OF EXPLORATION DOCUMENT, Stone plans to drill one (1) exploratory well ("A"). We estimate 45 drilling days per well. Life of Reserves and Flow Rates *Excluded from Public Copy.*

The following schedule details the chronological order of the proposed events leading to the full start up of drilling and completion:

PROPOSED ACTIVITY	ESTIMATED START DATE
Drill, evaluate, and complete well "E"	May 1, 2003 – June 14, 2003

**V. NEW OR UNUSUAL TECHNOLOGY**

No new techniques or unusual technology will be required for these operations.

**VI. DESCRIPTION OF DRILLING UNIT AND POLLUTION PREVENTION EQUIPMENT**

Safety features on the drilling rig will include well control and blowout prevention equipment as described in 30 CFR 250.400. The appropriate life rafts, life jackets, ring buoys, etc., as prescribed by the U.S. Coast Guard, will be maintained on the facility at all times. In addition, the rig and platform will be equipped with typical pollution control equipment including, but not limited to, deck drains, sumps, drip pans and sewage treatment facilities.

Drilling and completion operations will be done with a jack-up rig. The rig specifications are and will be made part of the Application for Permit to Drill.

The goal of this exploratory program is the gathering of information on the productivity of the leased area, in a safe manner, with minimal disruption of the environment. Production operations will be conducted by qualified Stone representatives. Regular training of operations personnel is a necessary complement to the pollution prevention features in the design of equipment and operations.

**BEST AVAILABLE COPY  
PUBLIC  
INFORMATION**

## ***VII. DESCRIPTION OF PLATFORM***

Under this proposed INITIAL PLAN OF EXPLORATION DOCUMENT, Stone plans to drill one (1) exploratory well on MP 287 Lease OCS G-19869 / MP 288 OCS G- 01665 / MP 276 OCS G-19866.

### **Description of production installation-**

Will be included in DOCD application

### **Transportation to shore –**

Will be included in DOCD application

## ***VIII. WELL LOCATIONS***

The locations of the MAIN PASS 287 / MAIN PASS 288 / MAIN PASS 276 wells are shown on the "OCS Plan Information Plan" included as **Attachment "A"**. The bottom-hole locations are considered Proprietary and are excluded from the Public Information copies of the plan.

## ***IX. STRUCTURE MAP / GEOLOGIC CROSS-SECTIONS***

Current structure maps drawn to the top of the prospective hydrocarbon accumulation showing the surface and bottom-hole locations of the development wells are included as **Attachment "B"**. This attachment also includes a cross-section map depicting the proposed well locations and the geologic name and age of the anticipated structures. This information is considered Proprietary and excluded from Public Information copies of the plan.

## ***X WATER DEPTH***

Water depth at the proposed locations is approximately 284 ft Lease OCS G19869 and 210 ft Lease OCS-G 19866. A Bathymetry Map is included as **Attachment "G"** for Lease OCS-G 19869. Drilling operations are from a previously submitted surface location pending approval (N-7671); therefore, we do not have a Bathymetry Map for Lease OCS-G 19866. Lease OCS-G 19866 has not been surveyed.

## ***XI. SHALLOW HAZARDS***

The proposed wells will be drilled from a previously submitted surface location pending approval (N-7671); therefore no shallow drilling hazards are expected. **Site Clearance Letter is for Main Pass 287 Surface Locations A&D. MP 276 Well "E" will surface within 12' of FWL.** Attachment "I".

## ***XII. LOCATION OF THE LEASE AND ONSHORE FACILITIES***

Main Pass 287 is located approximately 38 miles from the nearest Louisiana coastline and approximately 59 miles from the shore base located in Venice City, Louisiana. Main Pass 288 is located approximately 36 miles from the nearest Louisiana coastline and approximately 57 miles from the shore base located in Venice City, Louisiana. Main Pass 276 is located approximately 36 miles from the nearest Louisiana coastline and approximately 57 miles from the shore base located in Venice City, Louisiana. A vicinity map of Main 287 / Main Pass 276 relative to the shoreline and onshore base is included in this plan as **Attachment "C"**.



The onshore support base required to support these offshore operations will be located at Venice, Louisiana. This will serve as port of debarkation for supplies and crews. No onshore expansion or construction is anticipated with respect to the proposed activities. This base is capable of providing the services necessary for the proposed activities. It has 24-hour service, a radio tower with a phone patch, dock space, equipment and supply storage base, drinking and drill water, etc.

Stone Energy Corporation anticipates using one helicopter, one supply boat, and one crew boat to support their Main Pass 287 / Main Pass 288 / Main Pass 276 activities. The helicopter will travel to the location as needed. The crew boat will travel to the location a total of two times per week, and the supply boat will travel to the location a total of two times per week.

### ***XIII. OIL SPILL RESPONSE PLAN***

All drilling, completion, and production operations shall be performed in accordance with industry standards to prevent pollution of the environment. Stone Energy Corporation is the only entity covered in the Regional Oil Spill Response Plan on file with the MMS. **OSRP update approved 10/09/02 and lastly modified 10/23/02.** Stone Energy requests that the activities proposed in this INITIAL POE be covered by our OSRP.

This plan designates an Oil Spill Response Team consisting of contract personnel through Environmental Safety and Health Consulting Services, Inc. 877-437-2634. This team's duties are to eliminate the source of any spill, remove all sources of possible ignition, and deploy the most reliable means to monitor the movement of a slick, and contain and remove the slick if possible. Stone's Oil Spill Response Team attends drills for familiarization with pollution control equipment and operations procedures on an annual basis.

Stone is a member company of Clean Gulf Associates (CGA). The CGA stores pollution control equipment throughout the Gulf Coast.

In the event of a spill, the primary location for the procurement of clean-up equipment would be the CGA stockpile at Fort Jackson, Louisiana. Fort Jackson, Louisiana is the staging area for CGA's equipment. Additional clean-up equipment could be mobilized from the Pascagoula, Mississippi and Houma, Louisiana CGA stockpile areas. The Fort Jackson stockpile is located approximately 64 miles from the block 287; 63 miles from the block 288; and 62 miles from the block 276.

Worst Case Discharge = (Daily Volume from Uncontrolled Blowout) + (Maximum capacity of Oil Storage Tanks and Flowlines at Facility) + (Volume of Oil Leaked from Break in Pipelines Connected to the Facility)

Worst Case Discharge = 336 + 0 + 0 = 336 barrels

The Worst Case Discharge scenario calculated in accordance with 30 CFR 254.21 through 254.29 will be less than 1,000 barrels.

**Worst Case Scenario Comparison Table**

Category	Regional OSRP	INITIAL POE
Type of Activity	Production -	Exploratory Drilling
Facility Designation	EW 305 A	MP 287/ MP 288/MP 276
Distance to Nearest Shoreline (miles)	32 miles (> 10 miles)	38 mi / 36 mi / 36 mi
Volume		
Storage tanks (total)	25 BBLs	0 BBLs
Flowlines (on facility)	0 BBLs	0 BBLs
Lease term pipelines	2480 BBLs	0 BBLs
Uncontrolled blowout (volume per day)	4576 BBLs	336 BBLs
Total Volume	7081 BBLs	336 BBLs
Type of Oil(s)-(crude oil, condensate, diesel)	Crude Oil	Crude Oil
API Gravity(s)	33.8°	34°

“Since Stone Energy Corporation has the capability to respond to the worst-case spill scenario included in its regional. **OSRP update approved 10/09/02 and lastly modified 10/23/02.**, and since the worst-case scenario determined for our INITIAL POE does not replace the worst-case scenario in our regional OSRP, I hereby certify that Stone Energy Corporation has the capability to respond, to the maximum extent practicable, to a worst-case discharge, or a substantial threat of such a discharge, resulting from the activities proposed in our INITIAL POE.”

**Facility Tanks, production vessels.**

Type of Storage Tank	Type of Facility	Tank Capacity (bbls)	Number of Tanks	Total Capacity (bbls)	Fluid Gravity (API)
Fuel Oil	Jack up	1000	2	2000	No. 2 Diesel
Production	Not Applicable	0	0	0	0

**Diesel oil supply vessels.**

Size of fuel Supply Vessel	Capacity of Fuel Supply Vessel	Frequency of Fuel Transfers	Route Fuel Supply Vessel Will Take
190 feet	1,500 bbls	Weekly	From the shorebase in Venice, LA, Then to MP 288 then MP 287

**Support vessels fuel tanks.**

Type of Vessel	Number in Field Simultaneously	Estimated ;Maximum Fuel Tank Storage Capacity
Tug boats	1	1000
Supply vessels	1	1500
Service vessels	2	1000
Crew vessels	1	400

**Produced liquid hydrocarbons transportation vessels.** Will be included in DOCD application

**Oil and synthetic-based drilling fluids.**

Type of Drilling Fluid	Estimated Volume of Mud Used per Well	Mud Disposal Method	Estimated Volume of Cuttings Generated	Cuttings Disposal Method
Oil-based	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Synthetic-based	Not Applicable	Not Applicable	Not Applicable	Not Applicable

**Blow Out Scenario.**

Estimated Spill Flow Rate	336 BOPD
Volume	15,120 BOPD
Time Frame	45 DAYS
Potential for well to bridge over	Moderate Probability
Likelihood for surface intervention to stop blowout	Moderate Probability
Availability of rig to drill relief well	High Probability
Rig Package constraints	None
Estimated time to drill relief well	45 DAYS

**Spill response sites.**

Primary response sites	Preplanned Staging Location(s)
Venice, LA	Venice, LA

**Spill response.** Stone Energy has ensured, by means of contract, an experienced Spill Management Team as well as an extensive response resource contractor team in order to ensure it is well prepared to address the issues involved. Whenever possible, Stone Energy Corporation will attempt to use alternative response to dissipate an oil slick before it can impact land segments. Mechanical recovery and containment equipment will also be deployed to the spill site in a proactive manner. **Attachment "P"**.

**Pollution prevention measures.** Stone Energy will ensure our Spill Management Team is well versed with the probable impacted land segment, which in this case the spill originating at the Main Pass Area is Plaquemines Parish, LA. In addition, ensure safety briefings are conducted. The pollution prevention will consist of identifying the hazardous spilled material, control the source, maximize protection of environmentally sensitive areas and contain and recover spilled material. The early spill detection measure will consist of using aircraft, whenever possible. In the event of a night-time spill- the use of Infa-Red sensing cameras are capable of detecting petroleum on the water during the day or at night and in all weather conditions. **Attachment "Q"**.

**XIV. DISCHARGES**

All discharges associated with the proposed activities will be in accordance with regulations implemented by MMS, U.S. Environmental Protection Agency (EPA) and U.S. Coast Guard (USCG). **Wastes and Discharge Information Attachment "O"**. **MP 276 Location "E" discharges will be at MP 287 "A" & "D" surface locations previously submitted pending approval (N-7671).**

In accordance with EPA's Gulf of Mexico NPDES General Permit, discharges will contain no free oil and will be monitored and in compliance with the general permit. Any drilling fluid contaminated with oil will be transported to shore for proper disposal at an authorized disposal site.

EPA Region VI will be advised prior to and upon completion of discharges for the proposed drilling and production operations addressed in the subject Plan. Surveillance of fluids is accomplished through daily inventory of mud and chemicals added to the system, in addition to monthly and end-of-well LC50 toxicity tests required by EPA.

Produced water will be discharged from the platform. The discharge will be monitored to ensure the absence of sheen, and all testing will be performed as required by EPA Permit No. GMG290000.

Solid domestic wastes will be transported to shore for proper disposal at an authorized disposal site, and sewage will be treated on location by USCG approved marine sanitation devices on the drilling rig.

Typical mud components, which may be used in the drilling of the proposed wells, are included in **Attachment "D"**. The quantities and rates of discharge are included as **Attachment "E"**.

#### ***XV. HYDROGEN SULFIDE***

In accordance with Title 30 CFR 250.417, Stone requests that MAIN PASS 287 and MAIN PASS 276 be classified by the MMS as an area where the absence of hydrogen sulfide has been confirmed. The basis of this request is that the objective sands in proposed well E correlate with sands in MP Block 290 field that have been drilled and produced in similar hydrocarbon traps to those in MP 287. Based on analysis of produced fluids these reservoirs have been determined to be hydrosulfide-free.

#### ***VI. PROJECTED AIR EMISSIONS***

An Air Quality Report has been prepared and is included as **Attachment "F"**.

#### ***XVII. ENVIRONMENTAL IMPACT ANALYSIS REPORT***

An Environmental Impact Analysis Report is included as **Attachment "K"**.

#### ***XVIII. COASTAL ZONE CONSISTENCY CERTIFICATION***

Issues identified in the Louisiana Coastal Zone Management Program include the following: general coastal use guidelines, levees, linear facilities (pipelines), dredged soil deposition, shoreline modifications, surface alterations, hydrologic and sediment transport modifications, waste disposal, uses that result in the alteration of waters draining into coastal waters, oil, gas or other mineral activities, and air and water quality.

**BEST AVAILABLE COPY**

A Certificate of Coastal Zone Management Consistency for Louisiana and Statement regarding proposed activities to comply with Louisiana's approved Coastal management Program and with the applicable enforceable policies. **Attachment "L"**.

A Certificate of Coastal Zone Management Consistency for Mississippi is included as **Attachment "M"**.

Mississippi Coastal Program is included as **Attachment "N"**.

#### ***XIX. BIOLOGICAL INFORMATION***

Stone Energy does not propose using a semi submersible drilling rig to be placed within 500 feet of the no- activity zone of an identified topographic feature. Stone Energy will utilize a jack up drilling rig. Due to the water depth and proposed surface location there is not "**Deepwater Chemosynthetic Communities**" Stone Energy does not propose bottom-disturbing activities, within 100 feet of any **pinnacle trend feature** with vertical relief equal to or greater than 8 feet.

#### ***XX. AUTHORIZED REPRESENTATIVE***

Inquiries may be made to the following authorized representative:

Stone Energy Corp.

P.O. Box 52807

Lafayette, LA 70505

Phone: (337) 237-0410

Fax: (337) 233-2276

ATTN: Tom Shinn

Safety and Compliance Manager

#### ***XXI. ATTACHMENTS***

- Attachment A - OCS Plan Information Form and Plat
- Attachment B - Structure Maps, Cross Sections, Strat Columns, and Geological Description Geopressure Statement
- Attachment C - Vicinity Map
- Attachment D - Typical Mud Components
- Attachment E - Quantities and Rates of Discharge
- Attachment F - Air Quality Report
- Attachment G - Bathymetry Map
- Attachment H - BOP and Diverter Schematic
- Attachment I - Shallow Hazard Statement
- Attachment J - Assignment of Record Title to Oil and Gas Lease Document
- Attachment K - Environmental Impact Analysis
- Attachment L - Coastal Zone Consistency – Louisiana
- Attachment M - Coastal Zone Consistency – Mississippi
- Attachment O - Wastes and Discharge Tables
- Attachment P - Spill Response
- Attachment Q - Pollution Prevention Measures

**.APPENDIX J  
PLAN INFORMATION FORM**

In order to facilitate data entry and review your OCS plan, we encourage you to use the attached optional "Plan Information Form." OMB Control No. 1010-0049

Expiration Date:

**OCS PLAN INFORMATION FORM  
(USE SEPARATE FORM FOR EACH LEASE)**

EXPLORATION PLAN	X	DEVELOPMENT OPERATIONS COORDINATION DOCUMENT	DEVELOPMENT & PRODUCTION PLAN
OPERATOR: Stone Energy Corporation		ADDRESS: P.O. Box 52807	
MMS OPERATOR NO.: 01834		Lafayette, LA 70505	
CONTACT PERSON: Tom Shinn		PHONE NO. (337) 237-0410	
PROPOSED START DATE: 05/01/03	RIG TYPE: <input checked="" type="checkbox"/> U <input type="checkbox"/> SS <input type="checkbox"/> PF <input type="checkbox"/> DS <input type="checkbox"/> OTHER	DISTANCE TO CLOSEST LAND (IN MILES): MP 287 / 38 mi MP 288 / 36 mi MP 276 / 36	
NEW OR UNUSUAL TECHNOLOGY	YES	<input checked="" type="checkbox"/> NO	ONSHORE SUPPORT BASE(S): Venice City, La
NARRATIVE DESCRIPTION OF PROPOSED ACTIVITIES: Drill, evaluate, and complete one (1) exploratory well			
PROJECT NAME, IF APPLICABLE:			

**PROPOSED WELL/STRUCTURE LOCATIONS**

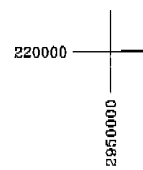
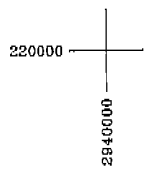
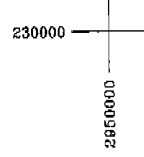
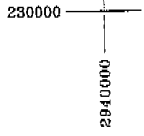
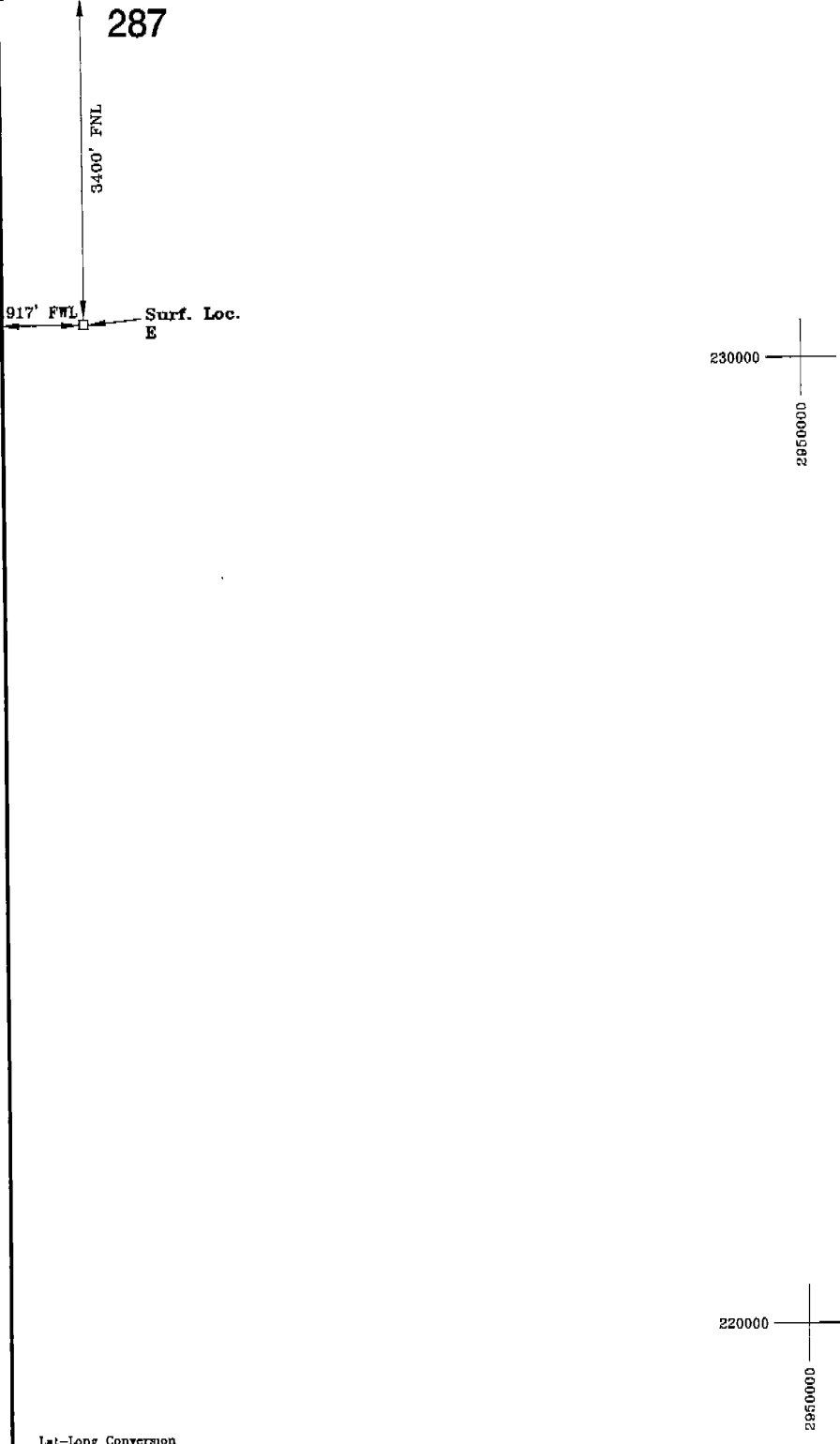
WELL/ STRUCTURE NAME	SURFACE LOCATION	BOTTOM-HOLE LOCATION (FOR WELLS)
Well <u>E</u> Name: <u>Main Pass 287</u>	CALLS: 917' F W L and 3400' F N L OF LEASE OCS 19869, <u>Main Pass</u> AREA, BLOCK <u>287</u>	CALLS: OMITTED and OMITTED OF LEASE, <u>Main Pass</u> AREA, BLOCK
	X: <u>2,941.792</u> Y: <u>230.430</u>	X: <u>OMITTED</u> Y: <u>OMITTED</u>
	LAT: <u>29°16'00.9850"</u> LONG: <u>88°22'45.9353"</u>	LAT: <u>OMITTED</u> LONG: <u>OMITTED</u>
	TVD (IN FEET): OMITTED	MD (IN FEET): OMITTED
Well Name:	CALLS: and OF LEASE OCS AREA, BLOCK	CALLS: and OF LEASE OCS AREA, BLOCK
	X: Y:	X: Y:
	LAT: LONG:	LAT: LONG:
	TVD (IN FEET):	MD (IN FEET):
Well Name:	CALLS: and OF LEASE OCS AREA, BLOCK	CALLS: and OF LEASE OCS AREA, BLOCK
	X: Y:	X: Y:
	LAT: LONG:	LAT: LONG:
	TVD (IN FEET):	MD (IN FEET):
Well Name:	CALLS: and OF LEASE OCS AREA, BLOCK	CALLS: and OF LEASE OCS AREA, BLOCK
	X: Y:	X: Y:
	LAT: LONG:	LAT: LONG:
	TVD (IN FEET):	MD (IN FEET):

**PUBLIC  
INFORMATION**

286

287

NW CORNER MP 287  
 X = 2,940,875  
 Y = 233,830  
 LAT. = 29°16'34.8676"  
 LONG. = 88°22'55.2963"



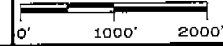
Lat-Long Conversion  
 Derived Using CORPSCON  
 Version 5.22.03 Using  
 NADCON 2.1

WELL	FEET E-W	FEET N-S	X	Y	LAT	LONG	TMD	TVD
SURF LOC. E	917' FWL	3,400' FNL	2,941,792	230,430	29°16'00.9850"	88°22'45.9353"		



PROPOSED SURF. LOC.  
 WELL E

REVISIONS			AREA	CONT. INT.	OCS #
BY	DATE	COMMENT			
			MAIN PASS BLK. 287	--	G-19869
			GEOLOGIST:		
			GEOPHYSICIST:	T C	DATE DRAWN:
			DRAWN BY:	LPK	March 18, 2003



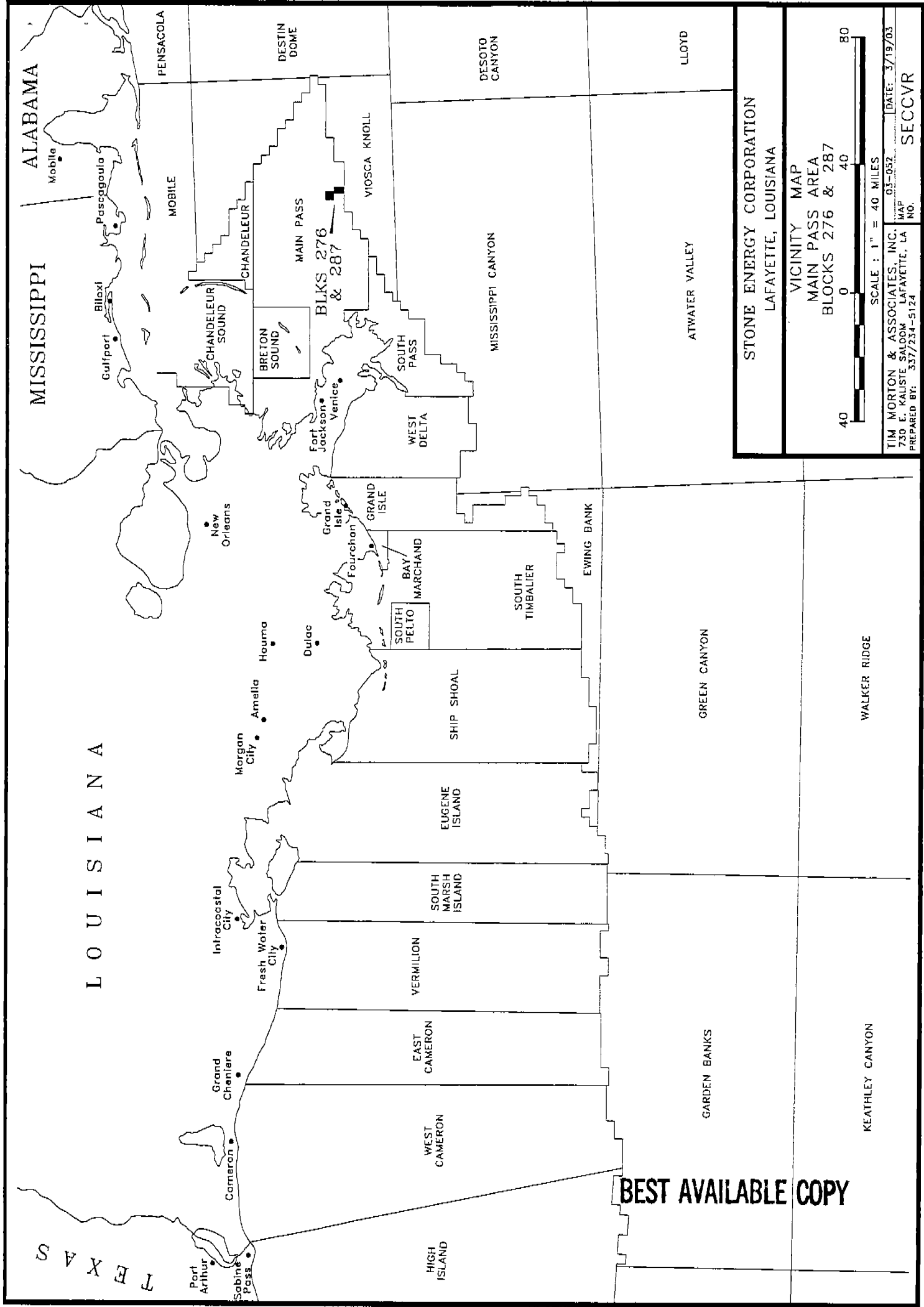
*STRUCTURE MAPS & GEOLOGIC  
CROSS-SECTIONS  
ARE  
EXCLUDED FROM  
PUBLIC INFORMATION  
COPIES OF PLAN*

**ATTACHMENT "B"**



# **VICINITY MAP**

**ATTACHMENT "C"**



**BEST AVAILABLE COPY**

STONE ENERGY CORPORATION  
LAFAYETTE, LOUISIANA

VICINITY MAP  
MAIN PASS AREA  
BLOCKS 276 & 287



TIM MORTON & ASSOCIATES, INC. MAP  
730 E. KALISTE SALDOM LAFAYETTE, LA  
PREPARED BY: 337/234-5124

DATE: 3/19/03

SECCVR

**DRILLING FLUID  
PRODUCT LIST**

**ATTACHMENT "D"**

**DRILLING FLUID ADDITIVES  
PRODUCT CROSS REFERENCE**

MILPARK	BAROID	M-I	DESCRIPTION
<b>WEIGHT MATERIALS</b>			
MIL-BAR	BAROID	M-I BAR	API bante, 4.2 specific gravity
DENSIMIX	BARODENSE	FER-OX	Macaceous nematite
W.O. 30	BARACAB	LO-WATE	Calcium Carbonate
<b>VISCOUSIFIERS</b>			
MILGEL	AQUAGEL	M-I GEL	API-grade Wyoming bentonite
MILGEL NT	AQUAGEL GOLD SEAL		Untreated Wyoming bentonite
SALTWATER GEL	ZEOGEL	SALT GEL	API-grade attapulgite
SUPER-COL	QUIK-GEL	KWIK-THIK	High-yield bentonite, treated
NEW-VIS			Organic polymer blend
XCD POLYMER	XCD POLYMER	XCD POLYMER	XC Dispersable
MIL-BEN	SHUR-GEL		Bentonite-OCMA Spec DCFP4
<b>DEFLOCCULANTS</b>			
MIL-TEMP	THERMA-THIN DP	MELANEX-T	High-temperature deflocculant
NEW-THIN	THERMA-THIN	TACKLE (Liquid)	Polymeric deflocculant
UNI-CAL	Q-BROXIN	SPERSENE	Chrome lignosulfonate
UNI-CAL CF	Q-B II	SPERSENE CF	Chrome-free lignosulfate
MIL-KEM	LIGNOX	RD 2000	Lime mud thinner
SAPP	SAPP	SAPP	Sodium acid pyrophosphate
OILFOS	BARAFOS	PHOS	Sodium tetraphosphate
MIL-THIN	THERMA-THIN	THIN X (Liquid)	Anionic copolymer thinner
<b>FILTRATION CONTROL AGENTS</b>			
BIO-LOSE			Modified polysacchande
CHEMTROL X	DURENEX	RESINEX	Polymer blend, high-temperature
FILTREX	BARANEX	RESINEX	Polyanionic lignin resin
LIGCO	CARBONOX	TANNATHIN	Lignite
LIGCON	CC-16	CAUSTLIG	Causticized lignite
MILSTARCH	IMPERMEX	MY-LO-GEL	Pregelatinized starch
NEW-TROL	POLYAC	SP-101	Sodium polyacrylate
PERMA-LOSE HT	DEXTRID	POLY-SAL	Nonfermenting starch, high-temp.
PYRO-TROL	THERMA-CHEK	POLY RX	Polymeric, high-temperature
KEM-SEAL	THERMA-CHEK		Copolymer, high-temperature
MIL-PAC	PAC R	POLYPAC	Polyanionic cellulose
MIL-PAC LV	PAC L	POLYPAC	Low-viscosity polyanionic cellulose
MILPARK CMC HV	CELLEX (High Vis)	CMC HV	Sodium carboxymethylcellulose
MILPARK CMC LV	CELLEX	CMC LV	Sodium carboxymethylcellulose
<b>CORROSION CONTROL CHEMICALS</b>			
MIL-GARD	NO-SULF	SULF-X	Basic zinc carbonate
MIL-GARD R	BARASCAV-L	SULF-X ES	Chelated Zinc
NOXYGEN	COAT-888; BARACOR 113	OXYGEN SCAVENGER	Oxygen scavenger
SCALE-BAN	SURFLO-H35; BARACOR 129	SI-1000	Scale Inhibitor
AMI-TEC	BARA FILM; BARACOR 300 COAT-B 1400; COAT-C 1815	CONQOR 202; CONQOR 101; CONQOR 303	Film-forming amine
<b>CARBON DRILL OIL MUD ADDITIVES</b>			
CARBO-MUL	INVERMUL NT; VERSACOAT	VERSAWET	Emulsifier (and wetting agent) primarily
CARBO-MUL HT	EZ MUL NT		High-temperature emulsifier and wetting agent
CARBO-TEC	INVERMUL	VERSAMUL	Emulsifier
CARBO-GEL	GELTONE II	VERSAGEL	Organophyllic clay nectonte
CARBO-VIS	GELTONE II	VERSAMOD	Organophyllic clay
CARBO-TROL		VERSATROL	Filtration control arent
CARBO-TROL A-9	DURATONE HT	VERSALIG	Nonasphaltic filtration control, high-temperature
SURF-COTE	DRILTREAT or OMC	VERSAWET	Oil wetting agent for oil muds
CARBO-MIX	DRILTREAT		Nonionic emulsifier, high-activity
CARBO-TEC HW			HW oil mud emulsifier

**DRILLING FLUID ADDITIVES  
PRODUCT CROSS REFERENCE**

MILPARK	BAROID	M-I	DESCRIPTION
<b>SHALE CONTROL ADDITIVES</b>			
ALPEX			Aluminum complex
BIO-DRILL 1402			Oil mud alternative
NEW-DRILL	EZ MUD	POLY-PLUS	PHPA liquid
NEW-DRILL HP			Powdered PHPA
NEW-DRILL PLUS	EZ MUD DP		Powdered PHPA
SHALE-BOND	SHALE-BAN	HOLECOAT	Resinous shale stabilizer
PROTECTOMAGIC			Oil-soluble blown asphalt
PROTECTOMAGIC M	AK-70	STABIL-HOLE	Water-dispersants. Blown asphalt
<b>SPOTTING FLUIDS</b>			
BLACK MAGIC			Oil-base spotting fluid
BLACK MAGIC LT	EX SPOT		Low toxicity oil-base spotting fluid
BLACK MAGIC SFT		OIL-FAZE	Oil-based spotting fluid concentrate
MIL-FREE	SCOT-FREE: ENVIRO-SPOT	PIPE-LAX	Liquid spotting fluid
BIO-SPOT	ENVIRO-SPOT		Nontoxic water-base spotting fluid
BIO-SPOT II			Nontoxic water-base spotting fluid
MIL-SPOT 2	SCOT-FREE	PIPE-LAX W	Weighted (oil-base) spotting fluid concentrate
<b>LUBRICANTS</b>			
AQUA-MAGIC			Low-toxicity lubricant
LUBRI-FILM	EP MUDDLUBE	E.P. LUBE	Extreme-pressure lubricant
MIL-LUBE		LUBE-106	General lubricant
<b>DETERGENTS/FOAMERS</b>			
AMPLI-FOAM	DRILFOAM	FOAMER 80	Mist and stiff foaming agent
MIL CLEAN	BAROID RIG WASH BARA-KLEAN	KLEEN-UP	Biodegradable detergent
MILPARK MD	CON-DET	DD	Drilling Detergent
<b>DEFOAMING AGENTS</b>			
LD-8	BARA DEFOAM	DEFOAM-X	Hydrocarbon-base refoamer
W.O. DEFOAM	BARA BRINE; DEFOAM	DEFOAM-A	Alcohol-base, saltwater muds
ALUMINUM STEARATE	ALUMINUM STEARATE	ALUMINUM STEARATE	Aluminum Stearate
<b>LOST CIRCULATION MATERIALS</b>			
CHEK-LOSS			Seepage loss control differential sticking preventative
MIL-CEDAR FIBER	PLUG-GIT	M-I CEDAR FIBER	Cedar fiber
MIL-FIBER	FIBERTEX	M-I FIBER	Fiber blend
MILFLAKE	JELFLAKE	FLAKE	Shredded cellophane flake
MILMICA	MICATEX	MICA	(Muscovite) mica graded
MIL-PLUG		NUT-PLUG	Ground pecan shells
MIL-SEAL	BARO-SEAL	KWIKSEAL	Blended lost-circulation material
COTTONSEED HULLS	Cottonseed Hulls	Cottonseed Hulls	Cottonseed Hulls
PAPER			Ground paper
WALNUT SHELLS	WALL-NUT		Ground walnut shells
MAGNE-SET			Acid-soluble cement
<b>WORKOVER AND COMPLETION FLUID ADDITIVES</b>			
MUD-PAC	COAT-44 & 45	CONQOR 404; X-CORE	Corrosion (packer fluid) inhibitor
BRINE-PAC	BARACOR-A		Corrosion inhibitor clean brine fluids
W.O. 21L	LIQUI-VIS	VIS-L	Liquid HEC polymer
<b>PRESERVATIVES</b>			
DRYOCIDE			Dry (biodegradable) biocide
X-CIDE 207	BARA B466	BACBAN II & III	Biocide

X-CIDE 207 is a registered trademark of Petrotite Corporation.  
 DRYOCIDE is a registered trademark of Nalco Chemical Company.  
 XCD (in XCD POLYMER) is a registered trademark of Marck & Co., Inc.  
 OILFOS is a registered trademark of Monsanto Company.

**STONE ENERGY CORP.**  
**INITIAL PLAN OF EXPLORATION DOCUMENT**  
**LEASE OCS-G 19869 / LEASE OCS-G 19866**  
**MAIN PASS 287 / MAIN PASS 276**

**QUANTITIES AND RATES OF DISCHARGES**<sup>(1)</sup>  
(PUBLIC INFORMATION)

<u>WELL</u>	<u>DEPTH</u>	<u>HOLE SIZE</u>	<u>QUANTITY(bbls)</u> <sup>(2)</sup>	<u>DISCHARGE RATE*</u>
"E"	OMITTED	30"	629	Maximum 1000 bbls/hr.
	OMITTED	20"	326	Maximum 1000 bbls/hr
	OMITTED	14-3/4"	685	Maximum 1000 bbls/hr
	OMITTED	9-7/8"	555	Maximum 1000 bbls/hr

**PUBLIC  
INFORMATION**

A list of mud additives that may be used while conducting drilling operations is shown in Attachment "F".  
Mud and drill cuttings will be discharged at the well site in accordance with EPA regulations.  
Mud and drill cuttings which have been contaminated with oil will be transported to shore for proper disposal at an authorized disposal site.

\* The discharge rate will not exceed 1000 bbls/hr., in accordance with EPA regulations.

<sup>(1)</sup> Discharge consists of cuttings and drilling fluid.

<sup>(2)</sup> Quantity (bbls) = Capacity of hole (cuttings) + 20% (loss of drilling fluids).

**ATTACHMENT "E"**

# **AIR QUALITY REPORT**

**ATTACHMENT "F"**

EXPLORATION PLAN (EP)  
 AIR QUALITY SCREENING CHECKLIST

COMPANY	Stone Energy Corporation
AREA	Main Pass
BLOCK	287
LEASE	OCS-G-19869
PLATFORM	
WELL	E
COMPANY CONTACT	Amy Fell
TELEPHONE NO.	337/237-0410
REMARKS	Well E will be drilled in MP 276 from surface in MP 287

"Yes"	"No"	Air Quality Screening Questions
		Is any calculated Complex Total (CT) Emission amount (in tons) associated with your proposed exploration activities more than 90 % of the amounts calculated using the following formulas: $CT = 3400D^{2/3}$ for CO, and $CT = 33.3D$ for the other air pollutants (where D = distance to shore in miles)?
	No	Do your emission calculations include any emission reduction measures or modified emission factors?
	No	Are your proposed exploration activities located east of 87.5° W longitude?
	No	Do you expect to encounter H <sub>2</sub> S concentrations greater than 20 parts per million (ppm)?
	No	Do you propose to flare or vent natural gas for more than 48 continuous hours from any proposed well?
	No	Do you propose to burn produced hydrocarbon liquids?

If ALL questions are answered "No":

Submit summary information regarding the peak year emissions for both Plan Emissions and Complex Total Emissions, if applicable.

If ANY question is answered "Yes":

Prepare and submit a full set of EP spreadsheets with your plan.



**STONE ENERGY CORPORATION  
MAIN PASS AREA BLOCK 287**

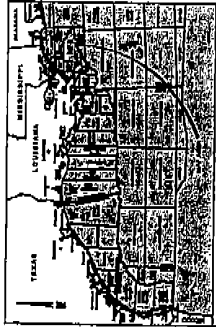
<b>Air Pollutant</b>	<b>Plan Emission Amounts (tons)</b>	<b>Calculated Exemption Amounts (tons)</b>	<b>Calculated Complex Total Emission Amounts (tons)*</b>
Carbon monoxide (CO)	51.61	38429.79	148.04
Particulate matter (PM)	6.88	1265.40	19.74
Sulphur dioxide (SO2)	31.57	1265.40	90.55
Nitrogen oxides (NOx)	236.56	1265.40	678.51
Volatile organic compounds (VOC)	7.10	1265.40	20.36

Contact: Joe Morton, P.E., 337/234-5124, [jmorton@mortoninc.com](mailto:jmorton@mortoninc.com)

\*Complex total emissions include drilling emissions from previous DOCD (N-7671)

# **BATHYMETRY MAP**

**ATTACHMENT "G"**



**LEGEND**

BATHYMETRY MAP  
 1:50,000 SCALE  
 1960 EDITION  
 UNITED STATES GEOLOGICAL SURVEY  
 WASHINGTON, D. C. 20506

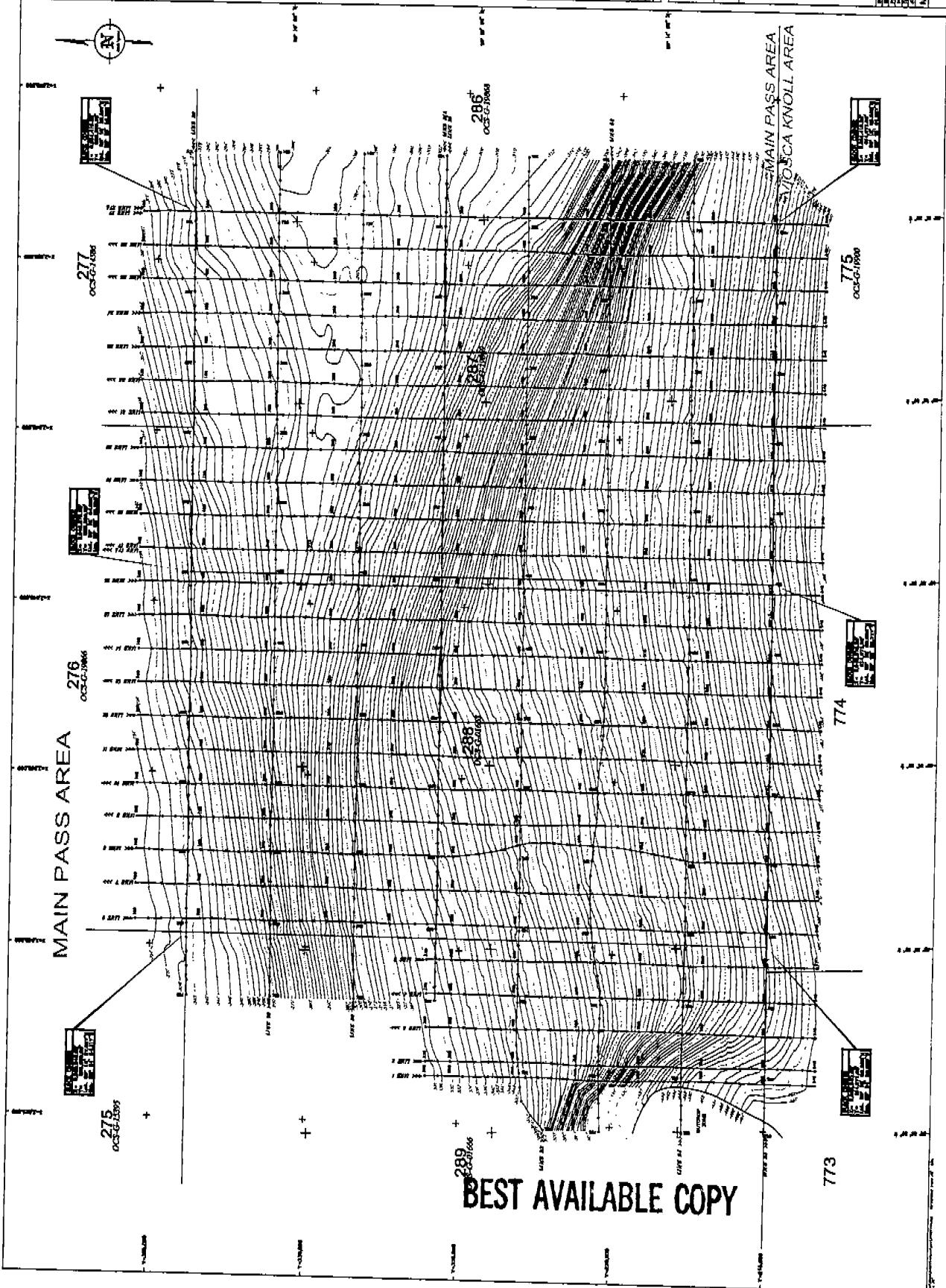
CONTOUR INTERVAL	5 FEET
VERTICAL DATUM	MEAN SEA LEVEL
PROJECTION	UTM
SCALE	1:50,000



**STONE**

BATHYMETRY MAP  
 OCS-G-1984, OCS-G-1985 & OCS-G-1986  
 BLOCK 287, BLOCK 288 & BLOCK 289  
 MAIN PASS AREA

DATE OF ORIGINAL SURVEY	1960
DATE OF REVISION	1960
REVISIONS	None
PROJECT NO.	1000
MAP NO.	1
SHEET NO.	1

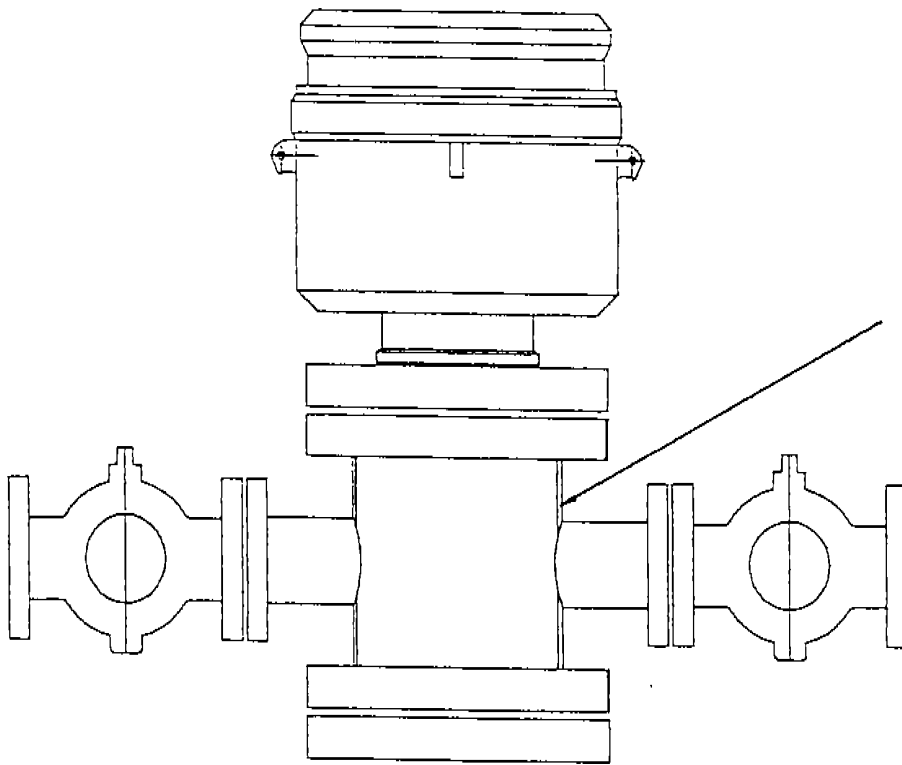


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# **BOP AND DIVERTER SCHEMATIC**

**ATTACHMENT "H"**

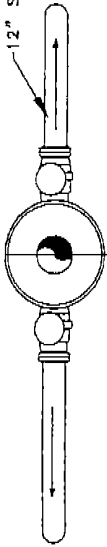
MSP HYDRIL ANNULAR BOP  
21-1/4" X 2,000 PSI W.P.  
STUDED TOP x FLANGED BOTTOM (R-173)  
ALL S.S STL LINED RING GROOVES



DIVERTER SPOOL  
21-1/4" X 2,000 PSI W.P.  
W/ (2) 12" 600 FLANGED SIDE OUTLETS  
ALL S.S STL LINED RING GROOVES

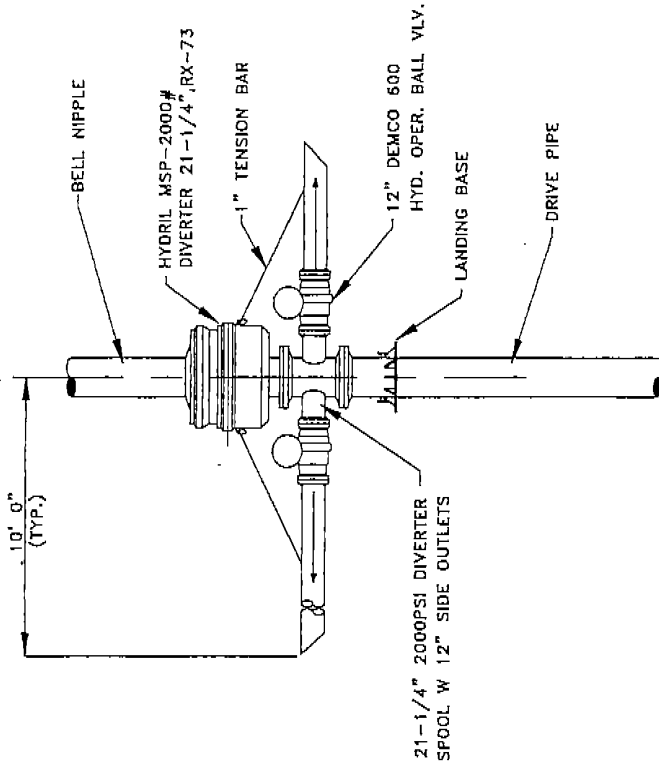
21-1/4" STACK ASSEMBLY (15 MT)

12" SCH 80 PIPE



PLAN VIEW DIVERTER SYSTEM


FORWARD



ELEVATION LKG. AFT  
DIVERTER SYSTEM

**NOTE:**

- 1.) DIVERTER LINES TO BE POSITIONED TO DIVERT FLOW BEYOND EDGE OF PLATFORM.
- 2.) DIVERTER LINES TO BE FABRICATED INTO FLANGED SECTIONS AND SECURELY ANCHORED TO PLATFORM
- 3.) ALL TURNS GREATER THAN 45 DEG. TO BE TARGETED.
- 4.) AVOID TURN ON OUTBOARD ENDS OF DIVERTER

SY.	DESCRIPTION	DATE	CHK'D	APPROV.
	 PRIDE OFFSHORE INC. HOUMA, LOUISIANA			
TITLE: DIVERTER ARRANGEMENT				
SCALE: SEE BAR SCALE	DATE: 8/2/88	BY: [Signature]	CHK'D: [Signature]	APP'D: [Signature]
THIS DRAWING IS THE PROPERTY OF PRIDE OFFSHORE INC. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF PRIDE OFFSHORE, INC.				
DRAWING NO. 1081				

**SHALLOW HAZARD STATEMENT**

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**ATTACHMENT "I"**



February 17, 2003

200 Dulles Drive  
Lafayette, LA 70506  
Main: 337-237-2636  
Fax : 337-268-3221Stone Energy Corporation  
623 East Kaliste Saloom Road  
Lafayette, LA 70508**MAIN PASS 276 LOCATION "E"  
TO BE DRILLED FROM PREVIOUSLY  
SUBMITTED MAIN PASS 287 LOCATIONS  
A&D PENDING APPROVAL N-7671**

Attention: Mr. Nick Repar

**Re: Proposed "A, D" Location  
Block 287, Main Pass Area  
Job. No. 2402-1290**

Gentlemen:

Fugro GeoServices, Inc. was contracted to prepare an Exploration Plan / EP Letter for the proposed "A, D" location in Block 287, Main Pass Area (OCS-G-19869). This letter is intended to address specific seafloor and subbottom conditions within 1,000 feet of the location.

USDI MMS NTL-98-20 and NTL-98-06 stipulate that analysis of potential hazards and cultural resources may be made from available geophysical and geological data. Interpretation for this Exploration Plan is based on the 2002 Hazard Survey in Blocks 287, 288, and 289 Main Pass Area, performed by Fugro GeoServices, Inc., for Stone Energy Corporation. The author of this report is Donald E. Rehmer, Staff Geologist. The survey was performed on August 21-24, 2002 aboard the *M/V L'Arpenteur*. Horizontal positioning of the survey vessel was accomplished with the Fugro STARFIX® System that provides 24-hour operation with an accuracy of  $\pm 3$  meters. Geophysical systems included an echo sounder to collect water depths, the magnetometer for detection of ferrous objects (pipelines, wellheads, industrial debris, etc.), the side scan sonar system to provide lateral seafloor coverage, and the 3.5 kHz sub-bottom profiler and SSI 90 cubic inch GI Gun to determine the presence of any biogenic gas, buried channels, or faults in the sub seafloor sediments. Survey coverage consisted of 27 north-south tracklines (Lines 1-27) spaced 300 meters apart and 8 east-west tielines (Lines 28-35) spaced 800 meters apart. Shot points were recorded at a 12.5-meter interval and annotated at 125-meter intervals on the data and maps. Study maps of the survey area were constructed at a scale of 1 inch = 1000 feet and have been included with the final Hazard Report.

All aspects of the fieldwork were carried out in accordance with the existing Federal Guidelines at the time of the survey.

The proposed "A, D" surface location is situated in the northwest quadrant of Block 287:

<b>3,400' FNL</b>	<b>Y = 230,430'</b>	<b>Lat: 29° 16' 01.092"N</b>
<b>930' FWL</b>	<b>X = 2,941,804'</b>	<b>Lon: 88° 22' 45.800"W</b>

**Geologic Evaluation**

- The water depth at the proposed "A, D" location is 284 feet BSL (zero datum is sea level). The seafloor within the proposed location area is relatively smooth and featureless. The seafloor within the vicinity of the well site displays a gradient of 54 feet per mile ( $0.6^\circ$ ) toward the south.







- Side scan sonar records displayed a relatively smooth seafloor with no outcrops within 1,000 feet of the proposed location. Observed outcrops or pinnacles are in excess of 2,000 feet northeast of the site. Outcrop locations are projected onto the Hazard Study Map (Map 2).
- Seafloor sediment consists of clayey sand.
- The seafloor is underlain by an acoustically amorphous layer of unconsolidated material deposited by hemipelagic rain of fine-grained sediment.
- There were no unidentified magnetic anomalies or side scan sonar contacts within 1,000 feet of the proposed "A, D" site.
- The Equilon 8-inch pipeline is approximately 500 feet to the north of the proposed location.

Based on the 2002 interpretation, the vicinity surrounding the Proposed "A, D" Location appears to be clear of any debris or obstacles to drilling activities with the exception of the Equilon pipeline. For additional information, please refer to the 2002 Shallow Hazards Report and Maps.

Thank you, and please call if you have any questions (337-268-3357).

Respectfully,

A handwritten signature in black ink, appearing to read "Donald E. Rehmer".

Donald E. Rehmer  
Staff Geologist

EP-A, D-revision 2.doc

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**ASSIGNMENT OF RECORD TITLE  
TO OIL AND GAS LEASE  
(EXCLUDED FROM PUBLIC COPY)**

**ATTACHMENT "J"**

# **ENVIRONMENTAL IMPACT ANALYSIS**

**ATTACHMENT "K"**

# **Environmental Impact Analysis**

*Main Pass Area  
Block 276  
OCS-G-19866*

March 19, 2003

Prepared for Stone Energy Corporation  
by Tim Morton & Associates, Inc.

Filename: C:\2003\Stone\MP\052-Blk276\EIAMP276.sec.wpd

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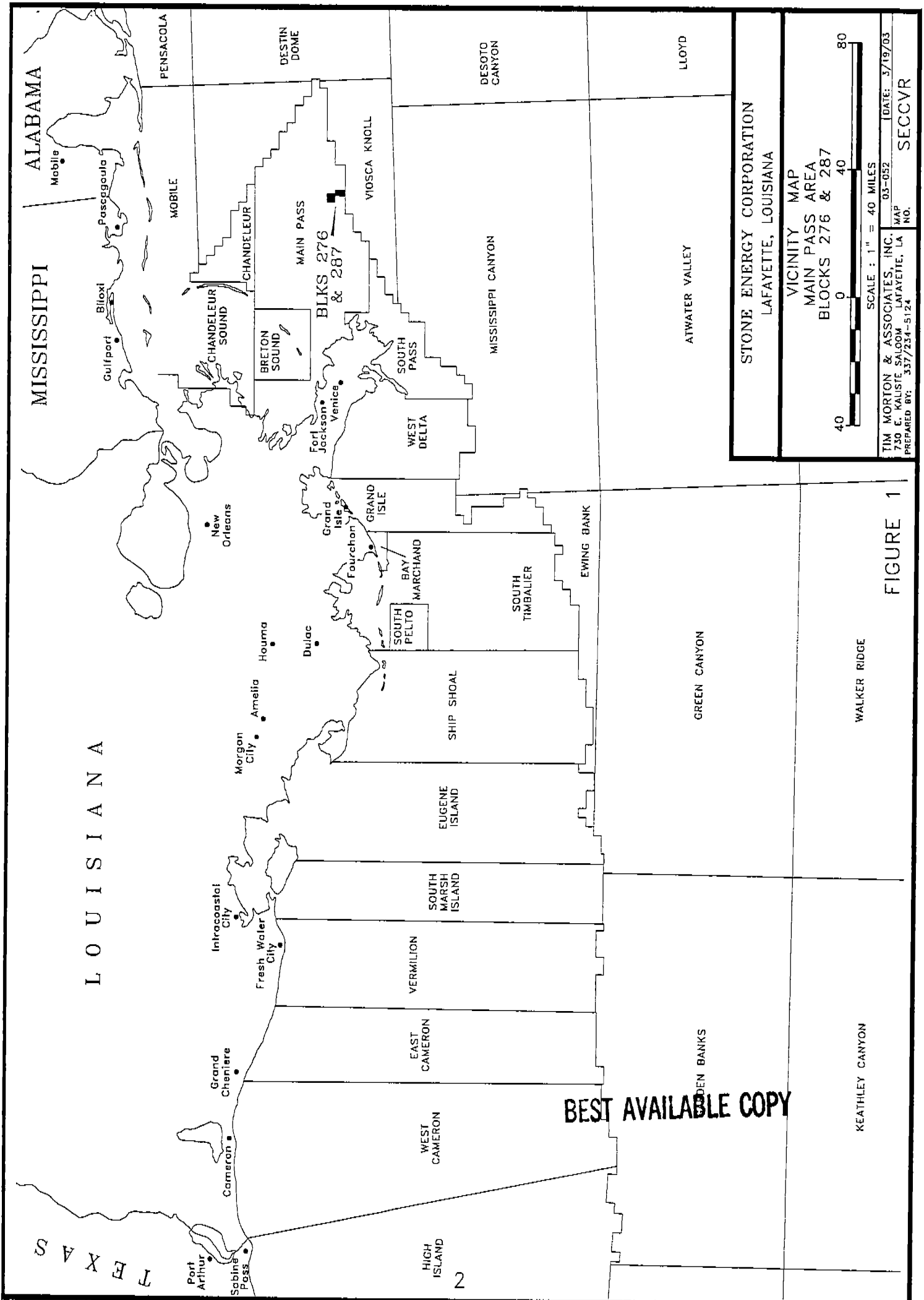
## I. Description of the Proposed Activity

This environmental impact analysis addresses the activity proposed by Stone Energy Corporation (Stone) for Main Pass Area Block 276 (OCS-G-19866). The approximate location of the activity is presented on a general vicinity map of the Outer Continental Shelf (OCS) lease areas off the coast of Louisiana (Figure 1).

Stone proposes to utilize a jackup rig to drill one well in Main Pass Area Block 276 from a surface location in Main Pass Area Block 287. Stone anticipates that it will take approximately 45 days to drill the proposed well. More specific information can be found in the attached Exploration Plan. If commercial quantities of hydrocarbons are discovered, a Development Operations Coordination Document will be submitted for approval.

The proposed activities will be carried out by Stone with a guarantee of the following:

- The best available and safest technologies will be utilized throughout the projects. This includes meeting all applicable requirements for equipment types, general project layout, safety systems, equipment and monitoring systems.
- All operations will be covered by a Minerals Management Service (MMS) approved Oil Spill Response Plan.
- All applicable Federal, State, and local requirements regarding air emissions, water quality, and discharge for the proposed activities, as well as any other permit conditions, will be complied with.



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FIGURE 1

STONE ENERGY CORPORATION  
LAFAYETTE, LOUISIANA

VICINITY MAP  
MAIN PASS AREA  
BLOCKS 276 & 287



SCALE : 1" = 40 MILES

TIM MORTON & ASSOCIATES, INC.  
730 E. KALISTE SALOON LAFAYETTE, LA  
MAP NO. 03-052  
DATE: 3/19/03  
PREPARED BY: 337/234-5124

SECCVR

## II. Impact-Producing Factors

Environmental Resources	Impact Producing Factors (IPF's) Categories and Examples Refer to a recent GOM OCS Lease Sale EIS for a more complete list of IPF's					
	Emissions (air, noise, light, etc.)	Effluents (muds, cuttings, other discharges to the water column or seafloor)	Physical disturbances to the seafloor (rig or anchor emplacements, etc.)	Wastes sent to shore for treatment or disposal	Accidents (e.g., oil spills, chemical spills, H2S releases)	Other IPF's you identify
<b>Site-specific at Offshore Location</b>						
Designated topographic features						
Pinnacle Trend area live-bottoms			X			
Eastern Gulf live bottoms						
<b>Chemosynthetic communities</b>						
Water quality		X			X	
Fisheries					X	
Marine mammals	X				X	
Sea turtles	X				X	
Air quality	X					
Shipwreck sites (known or potential)						
Prehistoric archaeological sites						
<b>Vicinity of Offshore Location</b>						
Essential fish habitat					X	
Marine and pelagic birds					X	
Public health and safety						
<b>Coastal and Onshore</b>						
Beaches					X	
Wetlands					X	
Shore birds and coastal nesting birds	X				X	
Coastal wildlife refuges					X	
Wilderness areas					X	
<b>Other Resources You Identify</b>						



### **III. Analysis of Impact-Producing Factors**

#### **A. Site-specific at Offshore Location**

##### **1. Designated Topographic Features**

After a review of impact-producing factors (including effluents, physical disturbances to the seafloor, and accidents) resulting from activities proposed in the Exploration Plan, there will be no adverse impacts to topographic features. Main Pass Area Block 276 is located approximately 82 miles northeast of Sackett Bank, the nearest known topographic feature.

The following discussion of topographic features is summarized from the Final Environmental Impact Statement (USDOJ, OCS EIS/EA MMS 2002-052). The Topographic Lease Stipulation has been used on leases since 1973, and this experience shows conclusively that the stipulation effectively prevents damage to the biota of these banks from routine oil and gas activities. In the unlikely event of an accidental surface or subsurface oil spill, concentrated oil is not expected to impact sessile biota on topographic features. Crests of designated topographic features in the northern Gulf of Mexico are found below 10 meters; therefore, concentrated oil from a surface spill is not likely to reach sessile biota. Subsurface spills could result in the formation and settling of oil-saturated material, and oil-sediment particles could come into contact with living coral tissue; however, a subsurface spill should rise to the surface, and any oil remaining at depth would probably be swept clear of the banks by currents moving around the banks (Rezak et al., 1983). Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

##### **2. Pinnacle Trend Area Live Bottoms**

After a review of impact-producing factors (including effluents, physical disturbances to the seafloor, and accidents) resulting from activities proposed in the Exploration Plan, there are potential impacts to pinnacle trend live bottoms. Main Pass Area Blocks 276 and 287 are located in an area where the Live Bottom (Pinnacle Trend) Stipulation applies. As mandated by the lease stipulation, Fugro Geoservices, Inc. performed a shallow hazard survey in Main Pass Area Block 287 utilizing remote sensing techniques. A live bottom survey report containing a bathymetry map was prepared for the purpose of determining the presence or absence of live bottoms. As stated in the shallow hazards report, no live bottoms were noted in the vicinity of the proposed activities.

The following discussion of pinnacle trend area live bottoms is summarized from the Final Environmental Impact Statement (USDOJ, OCS EIS/EA MMS 2002-052). By identifying the individual pinnacles present at the activity site, the lessee would be directed to avoid placement of the drilling rig and anchors on the sensitive areas. Thus, mechanical damage to the pinnacles is eliminated when measures required by the stipulation are imposed. The stipulation does not address the discharge of effluents near the pinnacles because the pinnacle trend is subjected to heavy natural sedimentation and is at considerable depths. The rapid dilution of drill cuttings and muds will minimize the potential of significant concentration of effluents on the pinnacles.

In the unlikely event of an accidental surface or subsurface oil spill, concentrated oil is not expected to impact biota of the pinnacle trend. Any surface oil spill resulting from a

proposed action would likely have no impact on the biota of the pinnacle trend because the crests of these features are much deeper than 20 meters. All evidence to date indicates that accidental oil discharges that occur at the seafloor from a pipeline or blowout would rise in the water column, surfacing almost directly over the source location, and thus not impact pinnacles. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

### **3. Eastern Gulf Live Bottoms**

After a review of impact-producing factors (including effluents, physical disturbances to the seafloor, and accidents) resulting from activities proposed in the Exploration Plan, there will be no adverse impacts to eastern gulf live bottoms. Main Pass Area Block 276 is located approximately 36 miles west of the nearest block protected by the eastern gulf live bottom stipulation.

The following discussion of eastern gulf live bottoms is summarized from the Final Environmental Impact Statement (USDOl, OCS EIS/EA MMS 2000-077). Through detection and avoidance, the eastern gulf live bottom lease stipulation minimizes the likelihood of mechanical damage from OCS activities associated with rig and anchor emplacement to the sessile and pelagic communities associated with the crest and flanks of such features. Since this area is subject to heavy natural sedimentation, this stipulation does not include and specific measures to protect the pinnacles from the discharge of effluents.

In the unlikely event of an accidental surface or subsurface oil spill, concentrated oil is not expected to impact eastern gulf live bottoms because of the depth of the features and dilution of spills by currents and/or quickly rising oil. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

### **4. Chemosynthetic Communities**

After a review of impact-producing factors (including effluents, physical disturbances to the seafloor, and accidents) resulting from activities proposed in the Exploration Plan, there will be no adverse impacts to chemosynthetic communities. Bottom-disturbing activities proposed in this Exploration Plan will not impact any deepwater chemosynthetic communities as the water depth at the surface location of the proposed wells is 284 feet.

The following discussion of chemosynthetic communities is summarized from the Final Environmental Impact Statement (USDOl, OCS EIS/EA MMS 2002-052). Impacts to chemosynthetic communities from any oil released would be a remote possibility. Release of hydrocarbons associated with a blowout should not present a possibility for impact to chemosynthetic communities located a minimum of 457 meters (1,500 feet) from well sites. Main Pass Area Block 276 is located approximately 22 miles west of Viosca Knoll Area Block 826, the nearest block with a known chemosynthetic community. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

## 5. Water Quality

After a review of impact-producing factors (including effluents and accidents) resulting from activities proposed in the Exploration Plan, there are potential impacts to water quality. The discharges generated as a result of drilling and production activities associated with this Exploration Plan will be discharged upon successful bioassay test as per NPDES discharge guidelines. Solids wastes; typically paper, plastic, cloth, and metal, will be collected and transported to shore for disposal at an approved disposal facility. Solid wastes generated from the transportation vessels, normally just garbage, will be collected and returned to shore for disposal with the drilling rig refuse. Scrap metal and other metal wastes will be recycled or sold as scrap and will not be shipped to a disposal facility with the other refuse. Sanitary wastes will be treated in approved marine sanitation devices as required by the Clean Water Act. All biodegradable wastes, such as kitchen food scraps, will be comminuted or ground and discharged in accordance with Annex V of MARPOL 73/78. Hazardous wastes from the drilling rig, such as paint, or paint thinner, will be collected in sealed metal containers and transported to an approved disposal site in accordance with RCRA guidelines. All applicable Federal, State, and local requirements regarding water quality and discharge for the proposed activities, as well as any other permit conditions, will be complied with.

The following discussion of potential impacts to water quality is summarized from the Final Environmental Impact Statement (USDOJ, OCS EIS/EA MMS 2002-052). In the unlikely event of an accidental surface or subsurface oil spill, a variety of physical, chemical, and biological processes act to disperse the oil slick, such as spreading, evaporation of the more volatile constituents, dissolution into the water column, emulsification of small droplets, agglomeration sinking, microbial modification, photochemical modification, and biological ingestion and excretion. The water quality would be temporarily affected by the dissolved components and small oil droplets that do not rise to the surface or are mixed down by surface turbulence. Dispersion by currents and microbial degradation would remove the oil from the water column or dilute the constituents to background levels. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

## 6. Fisheries

After a review of impact-producing factors (including accidental oil spills) resulting from activities proposed in the Exploration Plan, there are potential impacts to fisheries. In the unlikely event of an accidental surface or subsurface oil spill, there is the potential for some detrimental effects to fisheries.

The following discussion of potential impacts to fisheries is summarized from the Final Environmental Impact Statement (USDOJ, OCS EIS/EA MMS 2002-052). The Gulf sturgeon (*Ancipenser oxyrinchus desotoi*) is the only listed threatened fish species in the Gulf of Mexico. The Gulf sturgeon could be impacted by oil spills. Contact with spilled oil could cause irritation of gill epithelium and disturbance of liver function in Gulf sturgeon. The likelihood of spill occurrence and contact to the Gulf sturgeon is very low.

Should a spill occur in the area of mobile adult finfish or shellfish, the effects would likely be sublethal and the extent of the damage would be reduced to the capability of adult fish and shellfish to avoid a spill, to metabolize hydrocarbons, and to excrete both

metabolites and parent compounds. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

## **7. Marine Mammals**

After a review of impact-producing factors (including vessel traffic, noise, accidental oil spills, and loss of trash and debris) resulting from activities proposed in the Exploration Plan, there are potential impacts to marine mammals. Endangered or threatened marine mammal species which might occur in the Gulf of Mexico are West Indian manatee (*Trichechus manatus*), northern right whale (*Eubalaena glacialis*), fin whale (*Balaenoptera physalus*), humpback whale (*Megaptera novaeangliae*), sei whale (*B. borealis*), sperm whale (*Physeter macrocephalus*), and blue whale (*B. musculus*) (USDOI, OCS EIS/EA MMS 2002-052). Several non-endangered and non-threatened mammal species of whales and dolphins also occur in the Gulf of Mexico.

The following discussion of potential impacts to marine mammals is summarized from the Final Environmental Impact Statement (USDOI, OCS EIS/EA MMS 2002-052). Small numbers of marine mammals could be killed or injured by chance collision with service vessels and by eating indigestible debris, particularly plastic items, lost from service vessels, drilling rigs, and fixed and floating platforms. Sperm whales are one of the 11 whale species that are hit commonly by ships (Laist et al., 2001). Collisions between OCS vessels and cetaceans within the project area are expected to be unusual events.

Deaths due to structure removals are not expected due to existing mitigation measures or those being developed for structures placed in oceanic waters. There is no conclusive evidence whether anthropogenic noise has or has not caused long-term displacements of, or reductions in, marine mammal populations. Contaminants in waste discharges and drilling muds might indirectly affect marine mammals through food-chain biomagnification, although the scope of effects and their magnitude are not known.

Chronic and sporadic sublethal effects could occur that may stress and/or weaken individuals of a local group or population and make them more susceptible to infection from natural or anthropogenic sources. Few lethal effects are expected from oil spills, chance collisions with service vessels and ingestion of plastic material. Oil spills of any size are estimated to be aperiodic events that may contact cetaceans. Disturbance (e.g. noise) may stress animals, weaken their immune systems, and make them more vulnerable to parasites and diseases that normally would not be fatal.

The net result of any disturbance would depend on the size and percentage of the population affected, ecological importance of the disturbed area, environmental and biological parameters that influence an animal's sensitivity to disturbance and stress, and the accommodation time in response to prolonged disturbance (Geraci and St. Aubin, 1980). Routine oil and gas activities are not expected to have long-term adverse effects on the size and productivity of any marine mammal species or population stock endemic to the northern Gulf of Mexico.

## **8. Sea Turtles**

After a review of impact-producing factors (including vessel traffic, noise, accidental oil spills, and loss of trash and debris) resulting from activities proposed in the Exploration

Plan, there are potential impacts to sea turtles. Endangered or threatened sea turtle species which might occur in the Gulf of Mexico are Kemp's ridley turtle (Lepidochelys kempii), green turtle (Chelonia mydas), hawksbill turtle (Eretmochelys imbricata), leatherback turtle (Dermochelys coriacea), and loggerhead turtle (Caretta caretta) (USDOJ, Region IV Endangered Species Notebook).

The following discussion of potential impacts to sea turtles is summarized from the Final Environmental Impact Statement (USDOJ, OCS EIS/EA MMS 2002-052). Routine activities resulting from a proposed action have the potential to harm individual sea turtles. These animals could be impacted by the degradation of water quality resulting from operational discharges; noise generated by helicopter and vessel traffic, platforms, and drillships; brightly-lit platforms; explosive removals of offshore structures; vessel collisions; and jetsam and flotsam generated by service vessels and OCS facilities. Lethal effects are most likely to be from chance collisions with OCS service vessels and ingestion of plastic materials. "Takes" due to explosive removals are expected to be rare due to mitigation measures already established (e.g. National Marine Fisheries Service (NMFS) Observer Program) and in development. Most OCS activities are expected to have sublethal effects. Contaminants in waste discharges and drilling muds might indirectly affect sea turtles through food-chain biomagnification; there is uncertainty concerning the possible effects. Chronic sublethal effects (e.g. stress) resulting in persistent physiological or behavioral changes and/or avoidance of impacted areas could cause declines in survival or fecundity, and result in either population declines, however, such declines are not expected. The routine activities of a proposed action are unlikely to have significant adverse effects on the size and recovery of any sea turtle species or population in the Gulf of Mexico.

In the unlikely event of an accidental surface or subsurface oil spill, sea turtles could be adversely impacted. Oil spills and oil-spill-response activities are potential threats that could have lethal effects on turtles. Contact with oil, consumption of oil particles, and oil-contaminated prey could seriously affect individual sea turtles. Oil-spill-response planning and the habitat protection requirements of the Oil Pollution Act of 1990 should mitigate these threats.

## **9. Air Quality**

Estimated air emissions associated with the proposed activities have been calculated and were determined to be below the MMS exemption levels for particulates, sulfur oxides, nitrogen oxides, volatile organic compounds and carbon monoxide. There would be a limited degree of air quality degradation in the immediate vicinity of the proposed activities; however, the emissions associated with the proposed activities are not projected to have significant effects on onshore air quality.

## **10. Shipwreck Sites (known or potential)**

After a review of impact-producing factors (including physical disturbances to the seafloor) resulting from activities proposed in the Exploration Plan, there will be no adverse impacts to known or potential shipwreck sites. The area of proposed activities falls outside the zone designated as an area with a high probability of historic shipwrecks.

## **11. Prehistoric Archaeological Sites**

After a review of impact-producing factors (including physical disturbances to the seafloor) resulting from activities proposed in the Exploration Plan, there are potential impacts to prehistoric archaeological sites. The area of proposed activities falls outside the zone designated as an area with a high probability of pre-historic archeological resources.

## **B. Vicinity of Offshore Location**

### **1. Essential Fish Habitat**

After a review of impact-producing factors (including accidental oil spills) resulting from activities proposed in the Exploration Plan, there are potential impacts to essential fish habitat. In the unlikely event of an accidental surface or subsurface oil spill, there is the potential for some detrimental effects to essential fish habitat.

The following discussion of potential impacts to essential fish habitat is summarized from the Final Environmental Impact Statement (USDOJ, OCS EIS/EA MMS 2002-052). Should a spill occur in the area of a mobile adult finfish or shellfish, the effects would likely be sublethal and the extent of the damage would be reduced to the capability of adult fish and shellfish to avoid a spill, to metabolize hydrocarbons, and to excrete both metabolites and parent compounds. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

### **2. Marine and Pelagic Birds**

After a review of impact-producing factors (including vessel traffic, noise, accidental oil spills, and loss of trash and debris) resulting from activities proposed in the Exploration Plan, there are potential impacts to marine and pelagic birds.

The following discussion of potential impacts to marine and pelagic birds is summarized from the Final Environmental Impact Statement (USDOJ, OCS EIS/EA MMS 2002-052). The majority of effects on endangered/threatened and non-endangered/non-threatened marine birds are expected to be sublethal: behavioral effects, sublethal exposure to or intake of OCS-related contaminants or discarded debris, temporary disturbances, and displacement of localized groups from impacted habitats. Chronic sublethal stress, however, is often undetectable in birds. As a result of stress, individuals may weaken, facilitating infection and disease; then migratory species may not have the strength to reach their destination. No significant habitat impacts are expected to occur directly from routine activities resulting from a proposed action.

Oil spills pose the greatest potential direct and indirect impacts to marine birds. Birds that are heavily oiled are usually killed. If physical oiling of individuals or local groups of birds occurs, some degree of both acute and chronic physiological stress associated with direct and secondary uptake of oil would be expected. Lightly oiled birds can sustain tissue and organ damage from oil ingested during feeding and grooming or from oil that is inhaled. Stress and shock enhance the effects of exposure and poisoning. Low levels of oil could stress birds by interfering with food detection, feeding impulses, predator avoidance, territory definition, homing of migratory species, susceptibility to physiological disorders, disease resistance, growth rates, reproduction, and respiration. Reproductive success can be affected by the toxins in oil. Indirect effects occur by

fouling of nesting habitat, and displacement of individuals, breeding pairs, or populations to less favorable habitats. Dispersants used in spill cleanup activity can have toxic effects similar to oil on the reproductive success of marine birds. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

### **3. Public Health and Safety**

After a review of impact-producing factors (including an accidental H<sub>2</sub>S release) resulting from activities proposed in the Exploration Plan, there will be no adverse impacts to public health and safety. Main Pass Area Block 276 has been classified as an area where the absence of H<sub>2</sub>S has been confirmed.

## **C. Coastal and Onshore**

### **1. Beaches**

After a review of impact-producing factors (including accidental oil spills) resulting from activities proposed in the Exploration Plan, there are potential impacts to beaches. Main Pass Area Block 276 is located approximately 36 miles from the coast of Plaquemines Parish, Louisiana. Due to the distance from shore and the available oil spill response capabilities, no adverse impacts to beaches are anticipated as a result of the proposed activities. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

### **2. Wetlands**

After a review of impact-producing factors (including accidental oil spills) resulting from activities proposed in the Exploration Plan, there are potential impacts to wetlands. Main Pass Area Block 276 is located approximately 36 miles from the coast of Plaquemines Parish, Louisiana. Due to the distance from shore and the available oil spill response capabilities, no adverse impacts to wetlands are anticipated as a result of the proposed activities. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

### **3. Shore Birds and Coastal Nesting Birds**

After a review of impact-producing factors (including vessel traffic, noise, accidental oil spills, and loss of trash and debris) resulting from activities proposed in the Exploration Plan, there are potential impacts to shore birds and coastal nesting birds. Main Pass Area Block 276 is located approximately 36 miles from the coast of Plaquemines Parish, Louisiana. Due to the distance from shore and the available oil spill response capabilities, no adverse impacts to shore birds and coastal nesting birds are anticipated as a result of the proposed activities.

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The following discussion of potential impacts to shore birds and coastal nesting birds is summarized from the Final Environmental Impact Statement (USDOI, OCS EIS/EA MMS 2002-052). The majority of effects on endangered/threatened and non-endangered/non-threatened shore birds and coastal nesting birds are expected to be sublethal: behavioral effects, sublethal exposure to or intake of OCS-related contaminants or discarded debris, temporary disturbances, and displacement of localized groups from impacted habitats. Chronic sublethal stress, however, is often undetectable in birds. As a result of stress, individuals may weaken, facilitating infection and disease;

then migratory species may not have the strength to reach their destination. No significant habitat impacts are expected to occur directly from routine activities resulting from a proposed action. Secondary impacts to coastal habitats will occur over the long-term and may ultimately displace species from traditional sites to alternative sites.

Oil spills pose the greatest potential direct and indirect impacts to shore birds and coastal nesting birds. Birds that are heavily oiled are usually killed. If physical oiling of individuals or local groups of birds occurs, some degree of both acute and chronic physiological stress associated with direct and secondary uptake of oil would be expected. Small coastal spills, pipeline spills, and spills from accidents in navigated waterways can contact and affect the different groups of coastal birds, most commonly marsh birds, waders, waterfowl, and certain shorebirds. Lightly oiled birds can sustain tissue and organ damage from oil ingested during feeding and grooming or from oil that is inhaled. Stress and shock enhance the effects of exposure and poisoning. Low levels of oil could stress birds by interfering with food detection, feeding impulses, predator avoidance, territory definition, homing of migratory species, susceptibility to physiological disorders, disease resistance, growth rates, reproduction, and respiration. Reproductive success can be affected by the toxins in oil. Indirect effects occur by fouling of nesting habitat, and displacement of individuals, breeding pairs, or populations to less favorable habitats. Dispersants used in spill cleanup activity can have toxic effects similar to oil on the reproductive success of marine birds. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

#### **4. Coastal Wildlife Refuges**

After a review of impact-producing factors (including accidental oil spills) resulting from activities proposed in the Exploration Plan, there are potential impacts to coastal wildlife refuges. Main Pass Area Block 276 is located approximately 36 miles east of Pass a Loutre Wildlife Management Area, the nearest coastal wildlife refuge. Due to the distance from this refuge and the available oil spill response capabilities, no adverse impacts to coastal wildlife refuges are anticipated as a result of the proposed activities. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

#### **5. Wilderness Areas**

After a review of impact-producing factors (including accidental oil spills) resulting from activities proposed in the Exploration Plan, there are potential impacts to wilderness areas. Main Pass Area Block 276 is located approximately 36 miles from Plaquemines Parish, Louisiana. Due to the distance from shore and the available oil spill response capabilities, no adverse impacts to wilderness areas are anticipated as a result of the proposed activities. Activities proposed in the Exploration Plan will be covered by Stone's Oil Spill Response Plan (OSRP).

### **D. Other Environmental Resources Identified**

None



## IV. Impacts on Proposed Activities

A Shallow Hazards Assessment was prepared for the proposed surface location. The surface location was evaluated for any seafloor and subsurface geological and manmade features and conditions that may adversely affect operations. No impacts are expected on the proposed activities from site-specific environmental conditions.

## V. Alternatives

No alternatives to the proposed activities were considered to reduce environmental impacts.

## VI. Mitigation Measures

No mitigation measures other than those required by regulation will be employed to avoid, diminish, or eliminate potential impacts on environmental resources.

## VII. Consultation

No agencies or persons were consulted regarding potential impacts associated with the proposed activities. Therefore, a list of such entities has not been provided.

## VIII. References

*Fugro Geoservices, Inc.*

- 2002 Shallow Hazards Report, Blocks 287, 288 and 289 (OCS-G-19869, 01665 and 01666), Main Pass Area, Gulf of Mexico. Report No. 2402-1149

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- 2001 Collisions between ships and whales. *Marine Mammal Science*. 17:35-75.

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- 1976 Endangered and threatened species of the southeastern United States. Region IV, Atlanta, Georgia (periodically updated).

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- 2002 Final Environmental Impact Statement, Gulf of Mexico OCS Oil and Gas Lease Sales: 2003-2007, Central Planning Area Sales 185, 190, 194, 198, and 2001: Western Planning Area Sales 187, 192, 196, and 200, Volume I. Prepared by Minerals Management Service, Gulf of Mexico, OCS Region, New Orleans, Louisiana.

**COASTAL ZONE CONSISTENCY CERTIFICATION  
LOUISIANA**

**ATTACHMETN "K"**

COASTAL ZONE MANAGEMENT

CONSISTENCY CERTIFICATION

EXPLORATION

.....  
Type of Plan

MAIN PASS AREA BLOCK 276

.....  
Area and Block

OCS-G-19866

.....  
Lease Number

The proposed activities described in detail in the attached Plan comply with Louisiana's approved Coastal Management Program and with the applicable enforceable policies and will be conducted in a manner consistent with such Program.

STONE ENERGY CORPORATION

.....  
Lessee or Operator

*Amy Gill*  
.....  
Certifying Official

*3-19-03*  
.....

Date

**COASTAL ZONE CONSISTENCY CERTIFICATION  
MISSISSIPPI**

**ATTACHMENT "M"**

COASTAL ZONE MANAGEMENT CONSISTENCY CERTIFICATE

EXPLORATION PLAN

GULF OF MEXICO

FOR

MAIN PASS AREA BLOCK 276

OCS-G-19866

SUBMITTED TO:

MS. AMY FELL

STONE ENERGY CORPORATION

P. O. BOX 52807

LAFAYETTE, LOUISIANA 70505

(337/237-0410)

MARCH 19, 2003

PREPARED BY:

TIM MORTON & ASSOCIATES, INC.

REGULATORY & ENVIRONMENTAL CONSULTANTS

PROJECT NO. 03-052

COASTAL ZONE MANAGEMENT

CONSISTENCY CERTIFICATION

EXPLORATION

.....  
Type of Plan

MAIN PASS AREA BLOCK 276

.....  
Area and Block

OCS-G-19866

.....  
Lease Number

The proposed activities described in detail in the attached Plan comply with Mississippi's approved Coastal Management Program and will be conducted in a manner consistent with such Program.

STONE ENERGY CORPORATION

.....  
Lessee or Operator

*Amy Full*

.....  
Certifying Official

*3-19-03*

.....  
Date

# **MISSISSIPPI COASTAL PROGRAM**

**ATTACHMENT "N"**

**MISSISSIPPI COASTAL PROGRAM (MCP)**  
**STATEMENT OF FINDINGS REGARDING RELEVANT ENFORCEABLE POLICIES**

**Goal 1 - To provide for reasonable industrial expansion in the coastal area and to insure the efficient utilization of waterfront industrial sites so that suitable sites are conserved for water dependent industry.**

The proposed activities will occur from a surface location in Main Pass Area Block 287 which is located approximately 63 miles south of Petit Bois Island, Jackson County Mississippi. Stone Energy Corporation will utilize existing shorebase facilities located in Venice, Louisiana. No activities are proposed within coastal Mississippi.

**Goal 2 - To favor the preservation of the coastal wetlands and ecosystems, except where a specific alteration of specific coastal wetlands would serve a higher public interest in compliance with the public purposes of the public trust in which the coastal wetlands are held.**

The proposed activities will occur from a surface location in Main Pass Area Block 287 which is located approximately 63 miles south of Petit Bois Island, Jackson County Mississippi. Stone Energy Corporation will utilize existing shorebase facilities located in Venice, Louisiana. No activities are proposed within coastal Mississippi; therefore, coastal wetlands and ecosystems will not be adversely impacted.

**Goal 3 - To protect, propagate, and conserve the state's seafood and aquatic life in connection with the revitalization of the seafood industry of the State of Mississippi.**

The proposed activities will occur from a surface location in Main Pass Area Block 287 which is located approximately 63 miles south of Petit Bois Island, Jackson County Mississippi. Stone Energy Corporation will utilize existing shorebase facilities located in Venice, Louisiana. No activities are proposed within coastal Mississippi; therefore, Mississippi's seafood industry will not be adversely impacted.

**Goal 4 - To conserve the air and waters of the state, and to protect, maintain, and improve the quality thereof for public use, for the prorogation of wildlife, fish and aquatic life, and for domestic, agricultural, industrial, recreational, and other legitimate beneficial uses.**

The proposed activities will occur from a surface location in Main Pass Area Block 287 which is located approximately 63 miles south of Petit Bois Island, Jackson County Mississippi. Stone Energy Corporation will utilize existing shorebase facilities located in Venice, Louisiana. No activities are proposed within coastal Mississippi; therefore, Mississippi's air and waters will not be adversely impacted.

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**Goal 5 - To put to beneficial use to the fullest extent of which they are capable the water resources of the state, and to prevent the waste, unreasonable use, or unreasonable method of use of water.**

The proposed activities will occur from a surface location in Main Pass Area Block 287 which is located approximately 63 miles south of Petit Bois Island, Jackson County Mississippi. Stone Energy Corporation will utilize existing shorebase facilities located in Venice, Louisiana. No activities are



proposed within coastal Mississippi; therefore, Mississippi's water resources will not be adversely impacted.

**Goal 6 - To preserve the state's historical and archaeological resources, to prevent their destruction, and to enhance these resources wherever possible.**

The proposed activities will occur from a surface location in Main Pass Area Block 287 which is located approximately 63 miles south of Petit Bois Island, Jackson County Mississippi. Stone Energy Corporation will utilize existing shorebase facilities located in Venice, Louisiana. No activities are proposed within coastal Mississippi; therefore, Mississippi's historical and archaeological resources will not be adversely impacted.

**Goal 7 - To encourage the preservation of natural scenic qualities in the coastal area.**

The proposed activities will occur from a surface location in Main Pass Area Block 287 which is located approximately 63 miles south of Petit Bois Island, Jackson County Mississippi. Stone Energy Corporation will utilize existing shorebase facilities located in Venice, Louisiana. No activities are proposed within coastal Mississippi; therefore, Mississippi's natural scenic qualities will not be adversely impacted.

**Goal 8 - To assist local governments in the provision of public facilities services in a manner consistent with the coastal program.**

The proposed activities will occur from a surface location in Main Pass Area Block 287 which is located approximately 63 miles south of Petit Bois Island, Jackson County Mississippi. Stone Energy Corporation will utilize existing shorebase facilities located in Venice, Louisiana. No activities are proposed within coastal Mississippi; therefore, Mississippi's public facilities services will not be adversely impacted.

# **WASTES AND DISPOSAL TABLES**

**ATTACHMENT "O"**

**Wastes and Discharges Information**

**Table 1. Discharges Table (Wastes to be discharged overboard) MP 276 Location "E" Surface Location is MP 287 in this application and will be drilled from the previously submitted DOCD Control # N-7671 Locations A&D.**

Type of Waste Approximate Composition	Amount to be Discharged (volume or rate)	Maximum Discharge Rate	Treatment and/or Storage, Discharge Location*, * and Discharge Method
Water-based drilling fluids	820 bbl/well	220 bbl/hr	MP 287 'A' & 'D' Loc Discharge at Surface
Drill cuttings associated with water-based fluids	4700 bbl/well	2200 bbl/hr	MP 287 'A' & 'D' Loc Discharge at Surface
Drill cuttings associated with synthetic drilling fluids	Not Applicable	Not Applicable	Not Applicable
Muds, cuttings and cement at the seafloor – Subsea Wells only	Not Applicable	Not Applicable	Not Applicable
Well Completion, Treatment, or Workover Fluids	Compl- 2800 bbl/well Workover-300 bbl/well Treatment-250 bbl/well	300 bbl/well every 3 years after initial completion	MP 287 'A' & 'D' Loc Discharge used fluids overboard, return excess to shore for credit.
Miscellaneous discharges (permitted under NPDES) (Excess cement with cementing chemicals)	500 bbl/well	900 bbl/hr	MP 287 'A' & 'D' Loc Discharge at Surface
Uncontaminated fresh or seawater (cooling water)	216,000 bbl/well (drilling/rig operations) avg. daily – 2500 bbl/day	150 bbl/hr	MP 287 'A' & 'D' Loc Discharge at Surface
Uncontaminated ballast seawater	32,000 bbl per well	15,000 bbl/hr	MP 287 'A' & 'D' Loc Discharge at Surface
Uncontaminated bilge water	Not Applicable	Not Applicable	MP 287 "A" & "D" Loc Discharge at Surface
Desalinization Unit	402,000 bbl/well 6700 bbl/day	Not Applicable	MP 287 "A" & "D" Loc Discharge at Surface
Sanitary wastes	20 gal/person/day	Not Applicable	MP 287 'A' & 'D' Loc Chlorinate & Discharge at Surface
Domestic waste-food	1800/well 30 gal/day	Not Applicable	MP 287 'A' & 'D' Loc & Discharge at Surface
Deck Drainage	1)Dependant upon rainfall 2)Wash/Rinse water -1500 bbl (25bbl/day)	1) 0-4,000 bbl/day 2) 100 bbl/day	MP 287 'A' & 'D' Loc Discharge at Surface with no oil & grease

- Area, block, MMS facility ID (if available)

**Wastes and Discharges Information**

**Table 2. Disposal Table (Wastes to be disposed of, not discharged overboard)**

Type of Waste Approximate Composition	Amount	Rate per Day	Name/Location of Disposal Facility	Treatment and/or Storage, Transport and Disposal Method
Spent oil-based drilling fluids and cuttings	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Spent synthetic-based drilling fluids and cuttings	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Workover fluids	150 bbl	5 bbl/day	Energy Logistic, Inc. Venice, LA.	Transport in USCG approved temporary storage tank on offshore service vessels to shorebase.
Trash and debris	60,000 ft <sup>3</sup> /well	12 ft <sup>3</sup> /day	Energy Logistic, Inc. Venice, LA	Transport in storage bins on offshore service vessels to shorebase

# **SPILL RESPONSE**

**ATTACHMENT "P"**





# **POLLUTION PREVENTION MEASURES**

**ATTACHMENT "Q"**



## LAND SEGMENT IDENTIFICATION

According to the risk assessment analysis conducted by the Minerals Management Service as part of their OSRAM project, spills originating in the Main Pass Block 287, Launching Area C54, have the potential for impacting land segments from Santa Rosa County, FL to Cameron Parish, LA within 30 days of oil persisting on the water. The probabilities of impacts are summarized below. The most likely impact areas are the Plaquemines Parish, LA and Jefferson Parish, LA Areas.

<b>PROBABILITY OF LAND IMPACT FROM Main Pass 287 (% Chance)</b>			
<b>LAND AREA</b>	<b>3 DAYS</b>	<b>10 DAYS</b>	<b>30 DAYS</b>
Cameron, LA	-	-	1
Vermillion, LA	-	-	1
St. Mary, LA	-	1	-
Terrebonne, LA	-	2	3
Lafourche, LA	-	-	5
Jefferson, LA	-	16	1
Plaquemines, LA	3	2	25
Orleans, LA	-	1	6
St. Charles, LA	-	1	6
St. Bernard, LA	-	1	6
St. Tammany, LA	-	1	6
Hancock, MS	-	1	9
Mobile, AL	-	-	4
Baldwin, AL	-	-	3
Escambia, FL	-	-	2
Santa Rosa, FL	-	-	2

## LAND SEGMENT IDENTIFICATION

According to the risk assessment analysis conducted by the Minerals Management Service as part of their OSRAM project, spills originating in the Main Pass Block 276, Launching Area C54, have the potential for impacting land segments from Santa Rosa County, FL to Cameron Parish, LA within 30 days of oil persisting on the water. The probabilities of impacts are summarized below. The most likely impact areas are the Plaquemines Parish, LA and Jefferson Parish, LA Areas.

<b>PROBABILITY OF LAND IMPACT FROM Main Pass 276 (% Chance)</b>			
<b>LAND AREA</b>	<b>3 DAYS</b>	<b>10 DAYS</b>	<b>30 DAYS</b>
Cameron, LA	-	-	1
Vermillion, LA	-	-	1
St. Mary, LA	-	1	-
Terrebonne, LA	-	2	3
Lafourche, LA	-	-	5
Jefferson, LA	-	16	1
Plaquemines, LA	3	2	25
Orleans, LA	-	1	6
St. Charles, LA	-	1	6
St. Bernard, LA	-	1	6
St. Tammany, LA	-	1	6
Hancock, MS	-	1	9
Mobile, AL	-	-	4
Baldwin, AL	-	-	3
Escambia, FL	-	-	2
Santa Rosa, FL	-	-	2