

Office of  
Program Services

FEB 2 1994

Information Services  
Section

In Reply Refer To: MS 5231

February 1, 1994

Global Natural Resources Corporation  
of Nevada  
Attention: Ms. Melynda K. Mosley  
Post Office Box 4682  
Houston, Texas 77210

Gentlemen:

Reference is made to the following plan received January 18, 1994:

Type Plan - Supplemental Development Operations Coordination Document  
Lease - OCS-G 6245  
Block - A-271  
Area - High Island  
Activities Proposed - Wells A-3 and A-4 from existing Platform A

In accordance with 30 CFR 250.34, this plan is hereby deemed submitted and is now being considered for approval.

Your control number is S-3141 and should be referenced in your communication and correspondence concerning this plan.

Sincerely,

(Orig. Sgd.) Kent E. Stauffer

D. J. Bourgeois  
Regional Supervisor  
Field Operations

bcc: Lease OCS-G 6245 POD File (MS 5032)  
MS 5034 w/public info. copy of the plan  
and accomp. info.

AGobert:cic:01/25/94:DOCDCOM

NOTED - SCHEXNAILDRE

GLOBAL NATURAL RESOURCES CORPORATION

January 17, 1994

Mr. Daniel J. Bourgeois  
Regional Supervisor  
Office of Field Operations  
U.S. Department of the Interior  
Minerals Management Service  
1201 Elmwood Park Boulevard  
New Orleans, LA 70123-2394



RE: Supplemental Development Operations Coordination Document  
Lease OCS-G 6245, High Island Block A-271  
OCS Federal Waters, Gulf of Mexico, Offshore, TX

Gentlemen:

In accordance with the provisions of Title 30 CFR 250.34, Global Natural Resources Corporation of Nevada (Global Natural) hereby submits for your review and approval nine (9) copies of a Supplemental Development Operations Coordination Document for Lease OCS-G 6245, High Island Block A-271, Offshore, Texas. Five (5) copies are "Proprietary Information" and four (4) copies are "Public Information".

Excluded from the Public Information copies are certain geologic discussions, depth of wells and structure map.

Global Natural anticipates activities will commence under this proposed Supplemental Development Operations Coordination Document on approximately March 1, 1994.

Should additional information be required, please contact Global Natural's regulatory agent, Connie J. Goers, J. Connor Consulting, Inc. at (713) 578-3388.

Sincerely,

GLOBAL NATURAL RESOURCES CORPORATION OF NEVADA

A handwritten signature in cursive script that reads "Melynda Mosley/CJG".

Melynda Mosley

MS:CJG:cag  
Enclosures

**"PUBLIC INFORMATION"**

**GLOBAL NATURAL RESOURCES CORPORATION**  
**SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION**  
**DOCUMENT**  
**LEASE OCS-G 6245**  
**HIGH ISLAND BLOCK A-271**

Global Natural Resources Corporation, as designated operator, hereby submits this proposed Supplemental Development Operations Coordination Document in accordance with the regulations contained in Title 30 CFR 250.34 and more specifically defined in the Minerals Management Service Letters to Lessees and Operators dated October 12, 1988 and September 5, 1989.

**HISTORY OF LEASE**

In October, 1988, Minerals Management Service approved a Joint Initial Development Operations Coordination Document for Lease OCS-G 6245, Lease OCS-G 8187 and OCS-G 9140, Block A-271 A-272 and A-264; respectively. The subject plan provided for Lease OCS-G 6245, Well No. 1, No. 2 and A; Lease OCS-G 8187, Well No. 1, B and C and Lease OCS-G 9140, Wells D and E.

Lease OCS-G 6145 is presently maintained by ongoing production operations for Wells No. A-1 & A-2.

Global Natural has converted the existing \$300,000 Areawide Oil and Gas Lease Bond to the increased amount of \$3,000,000 as specified in that certain Letter to Lessees dated November 5, 1993.

**SCHEDULE OF OPERATIONS**

Under this Supplemental Development Operations Coordination Document, Global Natural proposes to drill two (2) development wells. Planned commencement date is approximately March 1, 1994, subject to the approval of this Supplemental Development Operations Coordination Document and issuance of the required Permits to Drill.

Global Natural proposes to drill, complete and produce Wells No. A-3 & A-4 from existing Platform "A" in High Island Block A-271, if productive, hook up to existing Koch facilities.

Global Natural does not anticipate installation of any additional facilities to produce the proposed well.

The following schedule details the chronological order of the proposed events leading to the full start up of production.

<u>Activity</u>	<u>Activity Schedule</u> <u>Approximate Date</u>
1. Commence drilling of Wells No. A-3	March 1, 1994
2. Commence completion of Wells No. A-4	June 1, 1994
3. Hook-up and commence production	June 15, 1994

### DESCRIPTION OF DRILLING UNIT

Offshore development activities are carried out from mobile drilling rigs. The six most common types of mobile rigs employed for development drilling offshore are platform rigs, submersible drilling rigs, semi-submersible drilling rigs, jack-up drilling rigs, drillships, and drill barges.

The proposed wells will be drilled with a typical jack-up rig. When a rig is selected, the rig specifications will be made a part of the Applications for Permit to Drill. Typical Diverter and BOP Schematics are included as Attachments A-1 and A-2.

Safety features will include well control and blowout prevention equipment as described in Title 30 CFR 250.50. 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.

### DESCRIPTION OF PLATFORM

The proposed wells will be drilled from an existing 4-pile structure designated as Platform "A".

All hydrocarbons handling equipment installed for testing and production operations will be designed, installed and operated to prevent pollution from the proposed structure.

Maintenance or repairs which are necessary to prevent pollution of offshore waters shall be undertaken immediately.

Global Natural Resources Corporation will allow no disposal of equipment, cables, containers, or others materials into offshore waters.

An elevation view drawing of the subject structure was previously included with the Initial Development Operations Coordination Document.

## WELL LOCATIONS

The approximate locations of the proposed wells in this Supplemental Development Operations Coordination Document are shown on the Well Location Table and accompanying Location Plat included as Attachments B-1 and B-2.

## STRUCTURE MAP

A current structure map drawn to the top of each prospective hydrocarbon accumulation showing the surface and bottom hole locations of the proposed wells is included as Attachment C.

## BATHYMETRY MAP

Water depth at the existing Platform "A" in High Island Block A-271 is approximately 162 feet.

A bathymetry map showing the existing surface location of Platform "A" was previously included with the Initial Development Operations Coordination Document.

## SHALLOW HAZARDS

A shallow hazards analysis for the existing surface location of High Island Block A-271 was previously included with the Initial Plans of Exploration and/or Development Operations Coordination Document.

## OIL SPILL CONTINGENCY PLAN

All drilling operations shall be performed in accordance with industry standards to prevent pollution of the environment. The Oil Spill Contingency Plan has been approved by MMS. This plan designates an Oil Spill Response Team consisting of the Global Natural Resources Corporation's personnel and contract personnel. This team's duties are to eliminate the source of any spill, remove all sources of possible ignition, deploy the most reliable means of available transportation to monitor the movement of a slick, and contain and remove the slick if possible.

Global Natural's Oil Spill Response Team attends drills for familiarization with pollution-control equipment and operation procedures on an annual basis.

Global Natural is a member of Clean Gulf Associates (CGA). The CGA stores pollution control equipment at two locations in Texas, at Port Aransas and Galveston; five locations in Louisiana, at Venice, Grand Isle, Intracoastal City, Houma and Cameron and one location in Alabama, at Theodore.

Each base is equipped with fast response skimmers and there is a barge mounted high volume open sea skimmer based at Grand Isle, Louisiana. In addition to providing equipment, the CGA also supplies advisors for clean-up operations. Equipment available from CGA and the base it is located at is listed in the CGA Manual, Volume I, Section III.

Global Natural will make every effort to see that a spill is responded to as quickly as possible. Response equipment and response times will be suitable for anticipated environmental conditions in the area.

In good weather conditions fast response with oil boom, skimmers, pump and storage tanks would require approximately 14 to 16 hours, including preparation time as indicated below. A heavy equipment system response would require approximately 24-36 hours, including 6 hours preparation time.

	<u>Hours</u>
1. Procurement of boat capable of handling oil spill containment equipment and deployment to nearest CGA Base in Cameron, LA	2.0
2. Load out Fast Response Unit	2.0
3. Travel time from Cameron to Lease Site	<u>10.0</u>
Estimated Total Time	14.0

Equipment located in Cameron, Louisiana would be utilized first with additional equipment transported from the nearest equipment base as required.

In the event a spill occurs from the surface location in High Island Block A-271, a projected trajectory of a spill has been prepared utilizing information in the Environmental Impact Statement (EIS) for OCS Lease Sales 147 and 150.

The EIS contains oil spill trajectory simulations using seasonal surface currents coupled with wind data, adjusted every 3 hours for 30 days or until a target is contacted. Hypothetical spill trajectories were simulated for each of the potential launch sites across the entire Gulf. These simulations presume 500 spills occurring in each of the four seasons of the year. The results in the EIS were presented as probabilities that an oil spill beginning from a particular launch site would contact a certain land segment within 3, 10, or 30 days.

Utilizing the summary of the trajectory analysis as presented in the EIS, the probable projected land fall of an oil spill is as follows. Also listed is the CGA Map Number corresponding to the land segment which will be utilized to determine environmentally sensitive areas that may be affected by a spill.

The percentage of sensitive area that may be effected by a spill is less than 0.5%.

If a spill should occur from the existing surface location, Global Natural would immediately activate its Oil Spill Response Team, determine from current conditions the probable location and time of land fall by contacting Continental Shelf Associates and/or the National Oceanic Atmospheric Administration's (NOAA) Gulf of Mexico Scientific Support Coordinator (SSC), for assistance in predicting spill movement. Then, using the Clean Gulf Operations Manual, Volume II, identify the biologically sensitive area and determine the appropriate response mode.

Volume II, Sections V and VI of the CGA Manual contains maps as listed above, equipment containment/cleanup protection response modes for the sensitive areas and depicts the protection response modes that are applicable for oil spill clean-up operations. Each response mode is schematically represented to show optimum deployment and operation of the equipment in areas of environmental concern. Implementation of the suggested procedures assures the most effective use of the equipment and will result in reduced adverse impact of oil spills on the environment. Supervisory personnel have the option to modify the deployment and operation of equipment to more effectively respond to site-specific circumstances.

#### NEW OR UNUSUAL TECHNOLOGY

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

#### DISCHARGES

All discharges associated with the drilling, completion and production of the subject wells will be in accordance with regulations by Minerals Management Service (MMS), U. S. Environmental Protection Agency (EPA), and the U. S. Coast Guard (USCG).

The MMS issued a special advisory notice (NTL 86-11) strongly encouraging the oil and gas industry to take special educational, operational and awareness measures to reduce or eliminate contributions to marine debris in the Gulf of Mexico.

Annex V of the International Convention for the Prevention of Pollution from ships, also known as MARPOL Protocol, prohibits the dumping of all plastic wastes, including plastic packaging materials and fishing gear.

EPA's Western Gulf of Mexico NPDES General Permit GMG290000 addresses the discharge limitations and testing protocol for drilling fluids, cuttings and associated wastes.

Discharges will contain no free oil and will be in compliance with and monitored as required by the permit. Any drilling fluid contaminated with oil will be transported to shore for proper disposal at an authorized disposal site.

Solid domestic wastes will be transported to shore for proper disposal at an authorized disposal site, and sewage will be treated on location by U. S. Coast Guard approved marine sanitation devices.

Mud may be discharged for purposes of dilution or at end of well. Surveillance of the fluid 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. Typical mud components which may be used in the drilling of the proposed wells are included as Attachment D.

The anticipated discharges associated with Global Natural's operations in High Island Block A-271 are included as Attachment E.

### HYDROGEN SULFIDE

In accordance with Title 30 CFR 250.67, Global Natural Resources Corporation requests that High Island Block A-271 be classified by the Minerals Management Service as an area where the absence of hydrogen sulfide has been confirmed.

The basis for this determination is through the evaluation of offsetting wells produced at Global Natural's Platform "A" in High Island Block A-271.

### PROJECTED EMISSIONS

Offshore air emissions related to the proposed activities result from mainly from the drilling rig operations, helicopters and service vessels. These emissions occur mainly from combustion or burning of fuels and natural gas and from venting or evaporation of hydrocarbons. The combustion of fuels occurs primarily on diesel-powered generators, pumps or motors and from lighter fuel motors. Other air emissions can result from catastrophic events such as oil spills or blowouts.

Primary air pollutants associated with OCS activities are nitrogen oxides, carbon monoxide, sulphur oxides, volatile organic compound, and suspended particulate.

Projected Air Quality Emissions are included as Attachment F.

### ENVIRONMENTAL REPORT

An Environmental Report is not required for the proposed supplemental development operations.



## COASTAL ZONE CONSISTENCY CERTIFICATION

Issues identified in the Louisiana Coastal Zone Management Programs 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; use of result in the alternation of waters draining into coastal waters; oil, gas, or other mineral activities; and air and water quality.

A certificate of Coastal Zone Management Consistency for the State of Louisiana is not required for the proposed supplemental development operations.

## ONSHORE SUPPORT BASE

The existing surface location in High Island Block A-271 is located approximately 88 miles from the shorebase located at Cameron, Louisiana. Water depth at the existing facility is approximately 162 feet. A Vicinity Plat showing the location of High Island Block A-271 relative to the shoreline and onshore base is included as Attachment G.

Global Natural will utilize existing onshore facilities located in Cameron, 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. Support vessels and travel frequency during drilling activities are as follows:

	<u>DRILLING</u>	<u>PRODUCTION</u>
Crew Boat	3 Trips Per Week	0 Trips Per Week
Supply Boat	4 Trips Per Week	1 Trips Per Week
Helicopter	2 Trips Per Week	4 Trips Per Week

## AUTHORIZED REPRESENTATIVE

Inquiries may be made to the following authorized representative:

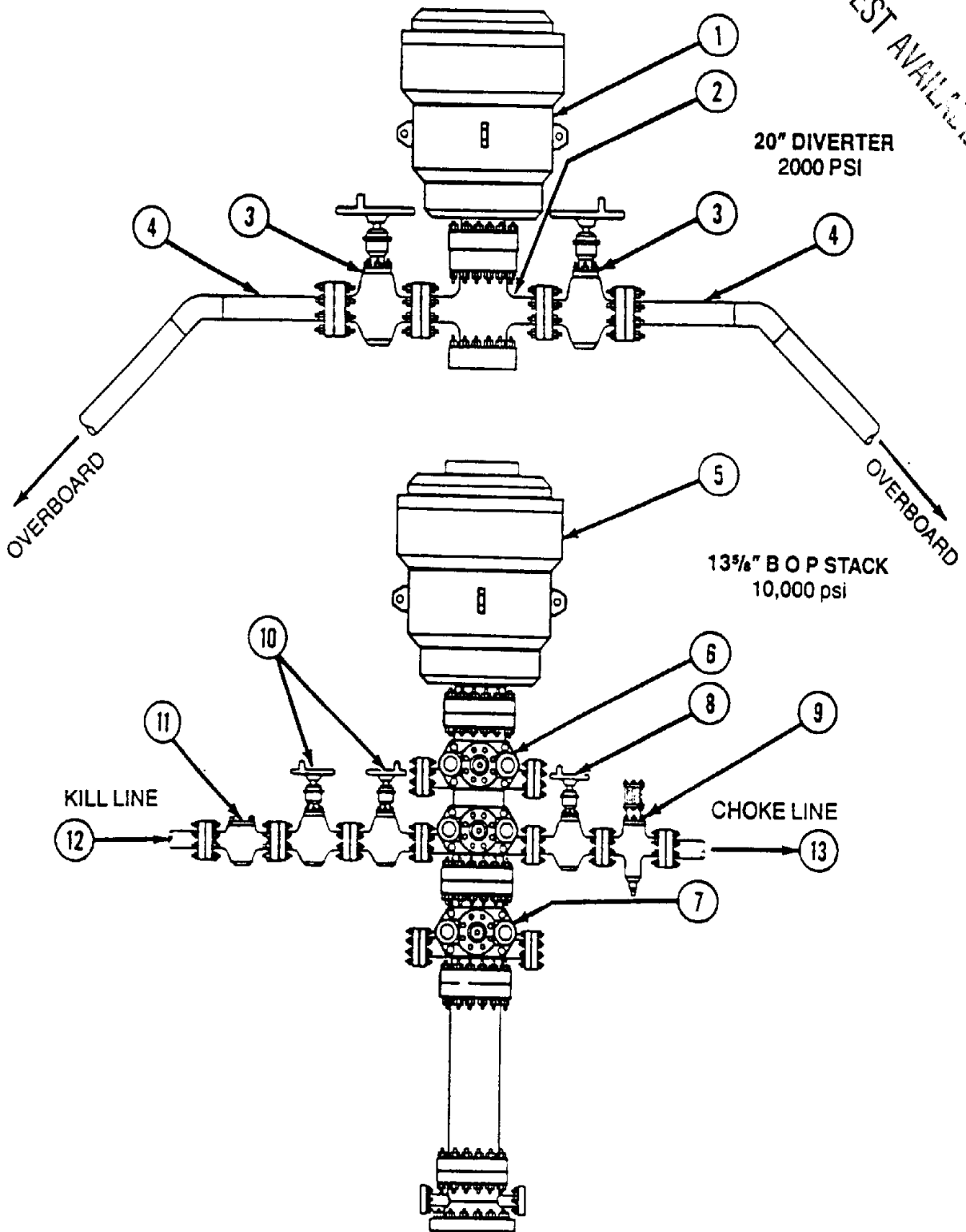
Connie J. Goers  
J. Connor Consulting, Inc.  
P. O. Box 219217  
Houston, Texas 77218  
(713) 578-3388

## LIST OF ATTACHMENTS

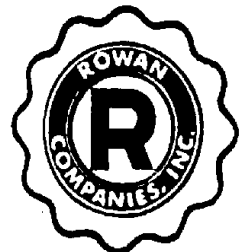
- A Typical Diverter and Blowout Preventer Schematics
- B Well Location Table and Plat
- C Structure Map
- D Typical Mud Components
- E Quantities and Rates of Discharges
- F Projected Air Emissions
- G Vicinity Map

# BLOWOUT PREVENTER STACK WITH A HYDRIL DIVERTER

BEST AVAILABLE COPY



Refer to following page for description of individual items of this assembly.



# 20" HYDRIL DIVERTER 2000 psi

ITEM	DESCRIPTION
1	20" HYDRIL 2000 psi Type MSP
2	20" FLANGE SPOOL 2000 psi w/6" 2000 psi Outlets
3	6" GATE VALVE std Low Pressure (REMOTE)
4	6" DIVERTER LINE (To Overboard)

BEST AVAILABLE COPY

# BLOWOUT PREVENTER STACK

13<sup>5</sup>/<sub>8</sub>' 10,000 psi

ITEM	DESCRIPTION
5	13 <sup>5</sup> / <sub>8</sub> " HYDRIL ANNULAR BOP 5000 psi Type GK H25 Trimmed
6	13 <sup>5</sup> / <sub>8</sub> " CAMERON DOUBLE BOP 10,000 psi WP H,2S Trimmed
7	13 <sup>5</sup> / <sub>8</sub> " CAMERON SINGLE BOP 10,000 psi WP H,2S Trimmed
8	4 <sup>1</sup> / <sub>8</sub> " MANUAL GATE VALVE Cameron Type "F" H,2S
9	2 <sup>1</sup> / <sub>8</sub> " REMOTE HYDRAULIC VALVE Cameron Type "F" 10,000 psi H,2S
10	2 <sup>1</sup> / <sub>8</sub> " MANUAL GATE VALVE Cameron Type "F" 10,000 psi H,2S
11	2 <sup>1</sup> / <sub>8</sub> " CHECK VALVE Cameron Type "R" 10,000 psi H,2S
12	3" 10,000 psi KILL LINE from Choke Manifold
13	3" 10,000 psi CHOKE LINE from choke Manifold



**GLOBAL NATURAL RESOURCES CORPORATION**  
**SUPPLEMENTAL**  
**DEVELOPMENT OPERATIONS COORDINATION DOCUMENT**  
**LEASE OCS-G 6245**  
**HIGH ISLAND BLOCK A-271**

**WELL LOCATION TABLE**

<u>WELL</u>	<u>LOCATION</u>	<u>TOTAL</u> <u>DEPTH</u>	<u>WATER</u> <u>DEPTH</u>	<u>TOTAL</u> <u>DAYS</u>
A-3	PSL: 2475' FNL & 579' FEL		162'	45/15
A-4	PSL: 2475' FNL & 559' FEL		162'	45/15



**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	BARACARB	LO-WATE	Calcium carbonate
<b>VISCOSIFIERS</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. DFCP4
<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 lignosulfonate
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 polysaccharide
CHEMTROL X	DURENEX	RESINEX	Polymer blend, high-temperature
FILTREX	BARANEX	RESINEX	Polyanionic lignin resin
LIGCO	CARBONOX	TANNATHIN	Lignite
LIGCON	CC-18	CAUSTILIG	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	PACL	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	OXYGEN	Oxygen scavenger
SCALE-BAN	BARACOR 113	SCAVENGER	
	SURFLO-H35	SI-1000	Scale inhibitor
	BARACOR 129		
AMI-TEC	BARA FILM	CONQOR 202	Film-forming amine
	BARACOR 300	CONQOR 101	
	COAT-B1400	CONQOR 303	
	COAT-C1815		
<b>CARBO-DRILL OIL MUD ADDITIVES</b>			
CARBO-MUL	INVERMUL NT	VERSAWET	Emulsifier (and wetting agent) primarily
	VERSACOAT		
CARBO-MUL HT	EZ MUL NT		High-temperature emulsifier and wetting agent
CARBO-TEC	INVERMUL	VERSAMUL	Emulsifier
CARBO-GEL	GELTONE II	VERSAGEL	Organophilic clay nectonte
CARBO-VIS	GELTONE II	VERSAMOD	Organophilic clay
CARBO-TROL		VERSATROL	Filtration control agent
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>			
ALPLEX			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-base 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 MUDLUBE	E.P. LUBE	Extreme-pressure lubricant
MIL-LUBE		LUBE-100	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 defoamer
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-GT	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	KWIK SEAL	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	CONGOR 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.



# J. Connor Consulting, Inc.



01/17/94

## PROJECTED AIR EMISSION SCHEDULE FOR SUPPLEMENTAL DEVELOPMENT/PRODUCTION PROJECT

### GENERAL INFORMATION

Location of Facility: High Island Block A-271  
OCS-G 6245  
Name of Rig: Jack-Up  
Operator: Global Natural Resources Corporation of Nevada  
5300 Memorial Drive, Suite 800  
Houston, Texas 77007  
Contact Person: Melynda Mosley  
Date Drilling Will Begin: March 1, 1994  
Date Production Will Begin: June 15, 1994  
Distance Offshore: 88 miles  
Number of Days to Drill/Complete: 90 days  
Well Footage to be Drilled:

### MAJOR SOURCES (OFFSHORE)

Power used aboard drilling vessel; approximate footage to be drilled

<u>Emitted Substance</u>	<u>Projected Emissions</u>	
	<u>lbs/day*</u>	<u>tons/yr</u>
CO	95	4.273
SO <sub>2</sub>	30	1.359
NO <sub>x</sub>	446	20.068
VOC	36	1.618
TSP	32	1.424

\* Based on 60 hphr/ft. from Table 4-3, "Atmospheric Emissions from Offshore Oil and Gas Development and Production", EPA No. 450/3-77-026, June, 1977

\*\* Emission factors from Table 3.3.3-1, "Compilation of Air Pollutant Emission Factors", Fourth Edition, EPA Report AP-42, September, 1985

PAGE 1

### ATTACHMENT F-1

Projected Air Emissions  
 Global Natural Resources Corporation of Nevada  
 High Island Block A-271

MINOR SOURCES (OFFSHORE)\*

<u>Emitted Substance</u>	<u>Projected Emissions lbs/day*tons/yr 1994</u>
CO	1.340
SO2	0.042
NOx	0.190
VOC	0.125
TSP	0.058

\* Tables 3.2.1-3, 3.2.3-1 and 2.1-1, "Compilation of Air Pollutant Emission Factors", Fourth Edition, EPA Report AP-42, September, 1985.

TOTAL ALL SOURCES (tons/year)

<u>1994</u>	<u>CO</u>	<u>SO2</u>	<u>NOx</u>	<u>VOC</u>	<u>TSP</u>
Major	4.273	1.359	20.068	1.618	1.424
Minor	<u>1.340</u>	<u>0.042</u>	<u>0.190</u>	<u>0.125</u>	<u>0.058</u>
Total	5.613	1.402	20.259	1.743	1.483

ONSHORE SOURCES

These should be about the same as minor sources unless new facilities are installed at the onshore base. No additional facilities are required or planned at this time.

EMISSION EXEMPTION DETERMINATION

For CO:  $E = 3400(D)^{2/3} = 3400(88)^{2/3} = 67,267$  tons/year  
 For NOx, VOC, TSP & SO2:  $E = 33.3D = 33.3(88) = 2,930$  tons/year

Projected Air Emissions  
Global Natural Resources Corporation of Nevada  
High Island Block A-271

PREDICTED PRODUCTION AND DRILLING ACTIVITY

Gas Production =

TRANSPORTATION SERVICES

Supply Boats (3000 hp)

Trips Per Week During Drilling –	4
Trips Per Week During Production –	1

Crew Boats

Trips Per Week During Drilling –	3
Trips Per Week During Production –	0

Helicopter

Trips Per Week During Drilling –	2
Trips Per Week During Production –	4

METHODOLOGY

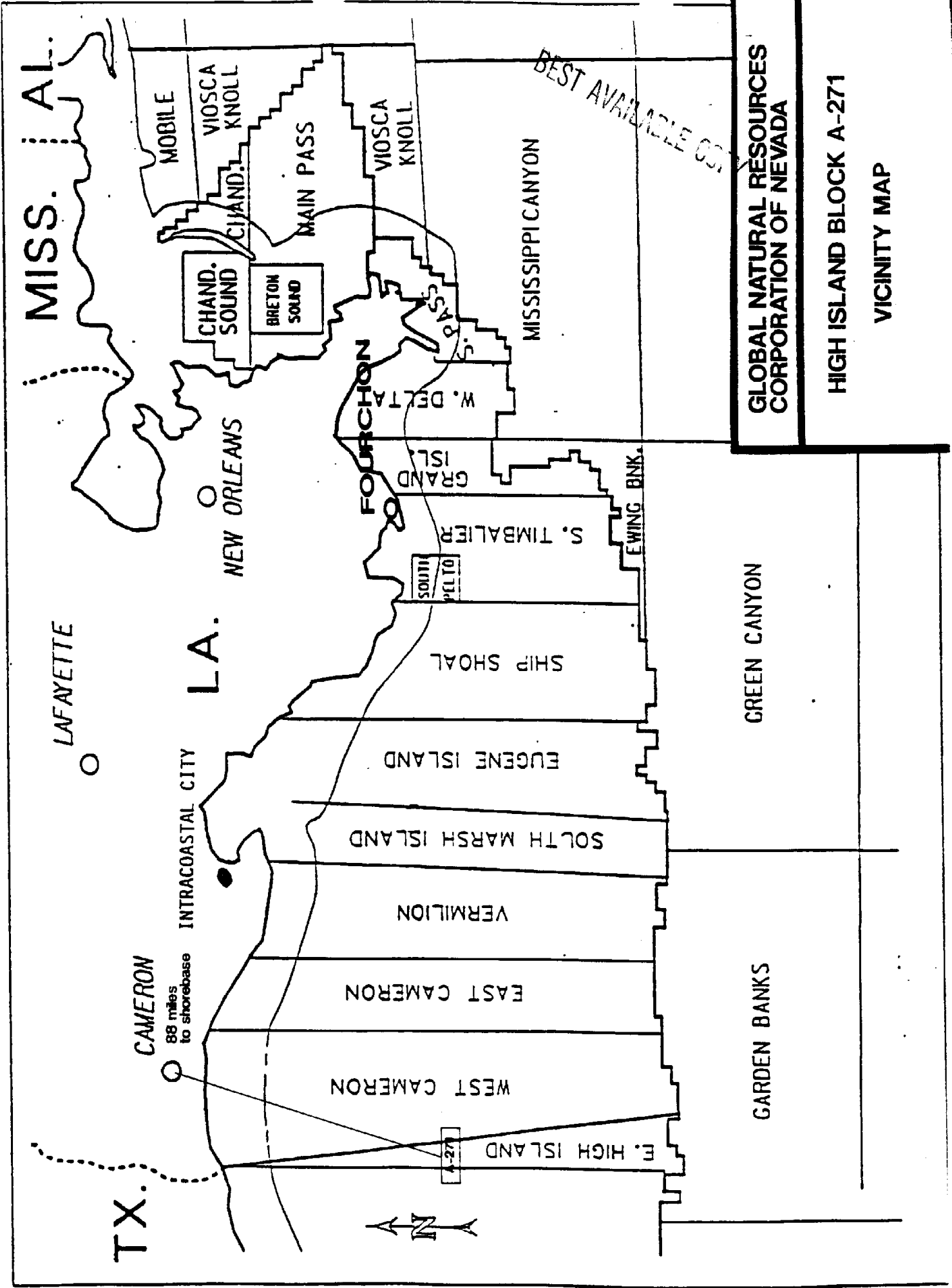
Platform:	Horsepower – hour method
Boats:	Horsepower – hour method
Helicopters:	Landing/Takeoff (LTO) cycle method

REFERENCES

Production –	EPA 450/3-77-026 (June, 1977) – "Atmosphere Emissions from Offshore Oil and Gas Development and Production", pp. 81-116.
Boats –	EPA Report AP-42 – "Compilation of Air Pollutant Emission Factors", Fourth Edition, (September, 1985), pp. 116,125 and 127.

FINDINGS OF AIR QUALITY REVIEW

As per DOI/MMS regulations, this facility is exempt from further air quality review as it has been determined that its operations will not have a significant adverse impact on air quality.



GLOBAL NATURAL RESOURCES CORPORATION OF NEVADA

HIGH ISLAND BLOCK A-271  
VICINITY MAP

ATTACHMENT G