

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-101  
Revised March 17, 1999

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. 1st Street, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

Submit to appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address <b>Marathon Oil Company</b> <b>P.O. Box 552</b>		<sup>2</sup> OGRID Number <b>14021</b>
		<sup>3</sup> API Number <b>30- 015- 33163</b>
<sup>4</sup> Property Code	<sup>5</sup> Property Name <b>INDIAN BASIN "32" STATE</b>	<sup>6</sup> Well No. <b>#8</b>

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
<b>M</b>	<b>32</b>	<b>21-S</b>	<b>24-E</b>		<b>1255'</b>	<b>South</b>	<b>511'</b>	<b>West</b>	<b>EDDY</b>

<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
<b>M</b>	<b>32</b>	<b>21-S</b>	<b>24-E</b>		<b>950'</b>	<b>South</b>	<b>2400'</b>	<b>West</b>	<b>Eddy</b>

<sup>9</sup> Proposed Pool 1 <b>Indian Basin U.P. Assoc.</b>	<sup>10</sup> Proposed Pool 2
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<sup>11</sup> Work Type Code <b>N</b>	<sup>12</sup> Well Type Code <b>G</b>	<sup>13</sup> Cable/Rotary <b>ROTARY</b>	<sup>14</sup> Lease Type Code <b>S</b>	<sup>15</sup> Ground Level Elevation <b>4322'</b>
<sup>16</sup> Multiple <b>NO</b>	<sup>17</sup> Proposed Depth <b>8600'</b>	<sup>18</sup> Formation <b>U. PENN</b>	<sup>19</sup> Contractor <b>McVAY</b>	<sup>20</sup> Spud Date <b>2/1/04</b>

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
<b>12.250</b>	<b>9-5/8"</b>	<b>36#</b>	<b>1250'</b>	<b>630</b>	<b>SURFACE</b>
<b>8.750"</b>	<b>7"</b>	<b>23#/26#</b>	<b>8600'</b>	<b>1280</b>	<b>SURFACE</b>

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.

Describe the blowout prevention program, if any. Use additional sheets if necessary.

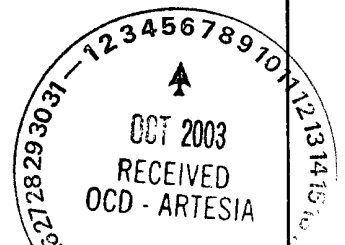
Marathon Oil Company is proposing to drill a directional Upper Penn. well to a Non- Standard BHL target. SHL is on Federal land in Section 32.

BOPE: 11" 3M DUAL RAM, ANNULAR & ROTATING HEAD.

ALL BOPE SHALL BE INSTALLED AND TESTED ACCORDING TO OCD RULES #109 & #114.

ALL CASING SHALL BE RUN AND CEMENTED IN ACCORDANCE WITH OCD RULE #107.

**NSL - 4977 (BHL) (SD)**



<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Jerry Fletcher*

Printed name: **Jerry Fletcher**

Title: **Engineer Tech.**

Date: **9/23/03**

Phone: **432-687-8360**

**OIL CONSERVATION DIVISION**

Approved by:

*Jim W. Brown*

Title:

*District Supervisor*

Approval Date: **JAN 9 2008** Expiration Date: **JAN 9 2004**

Conditions of Approval:

Attached ☐

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 33685	Pool Name Indian Basin Upper Penn. Assoc.
Property Code	Property Name INDIAN BASIN 32 STATE	Well Number 8
OGRID No. 14021	Operator Name MARATHON OIL COMPANY	Elevation 4322'

Surface Location

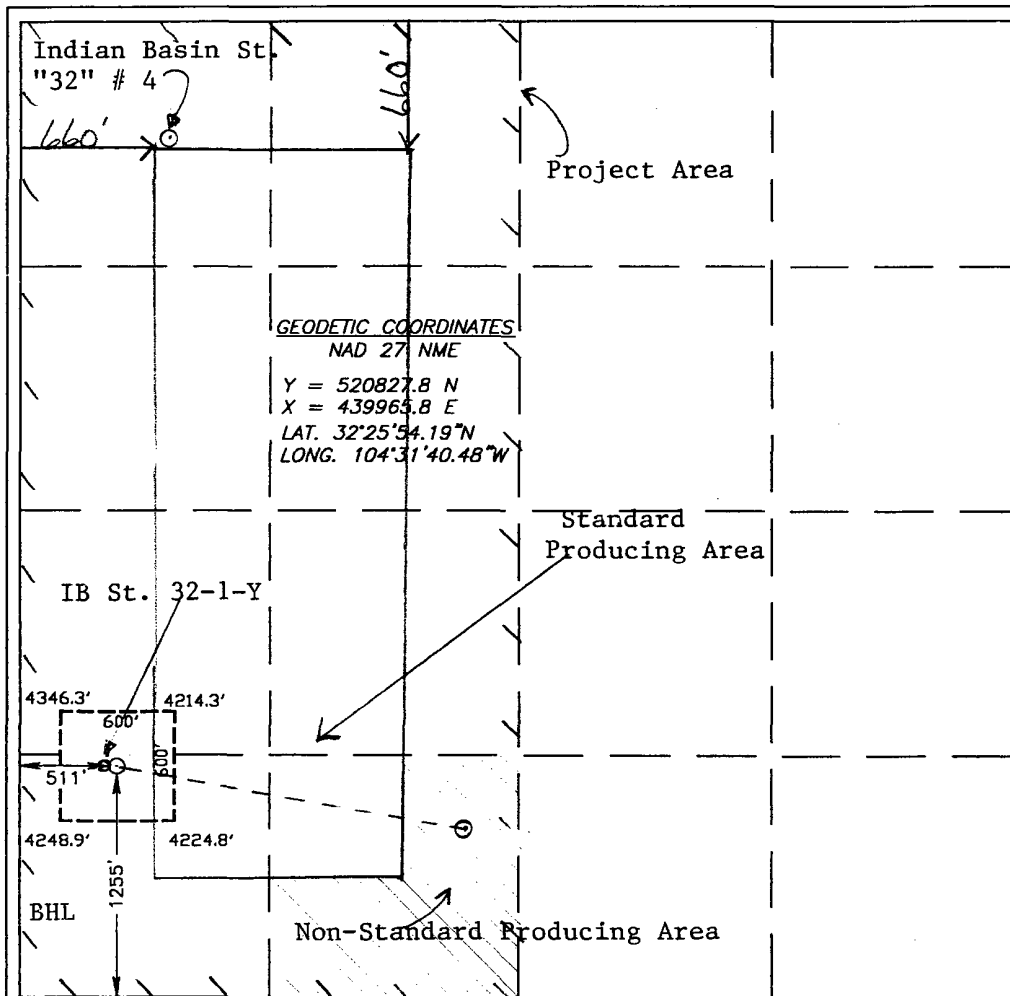
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	32	21-S	24-E		1255'	SOUTH	511'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	32	21-S	24-E		950'	SOUTH	2400'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320 W/2			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify the the information  
contained herein is true and complete to the  
best of my knowledge and belief.

Signature *Jerry Fletcher*  
Jerry Fletcher  
Printed Name  
Engineer Tech.  
Title  
9/19/03  
Date

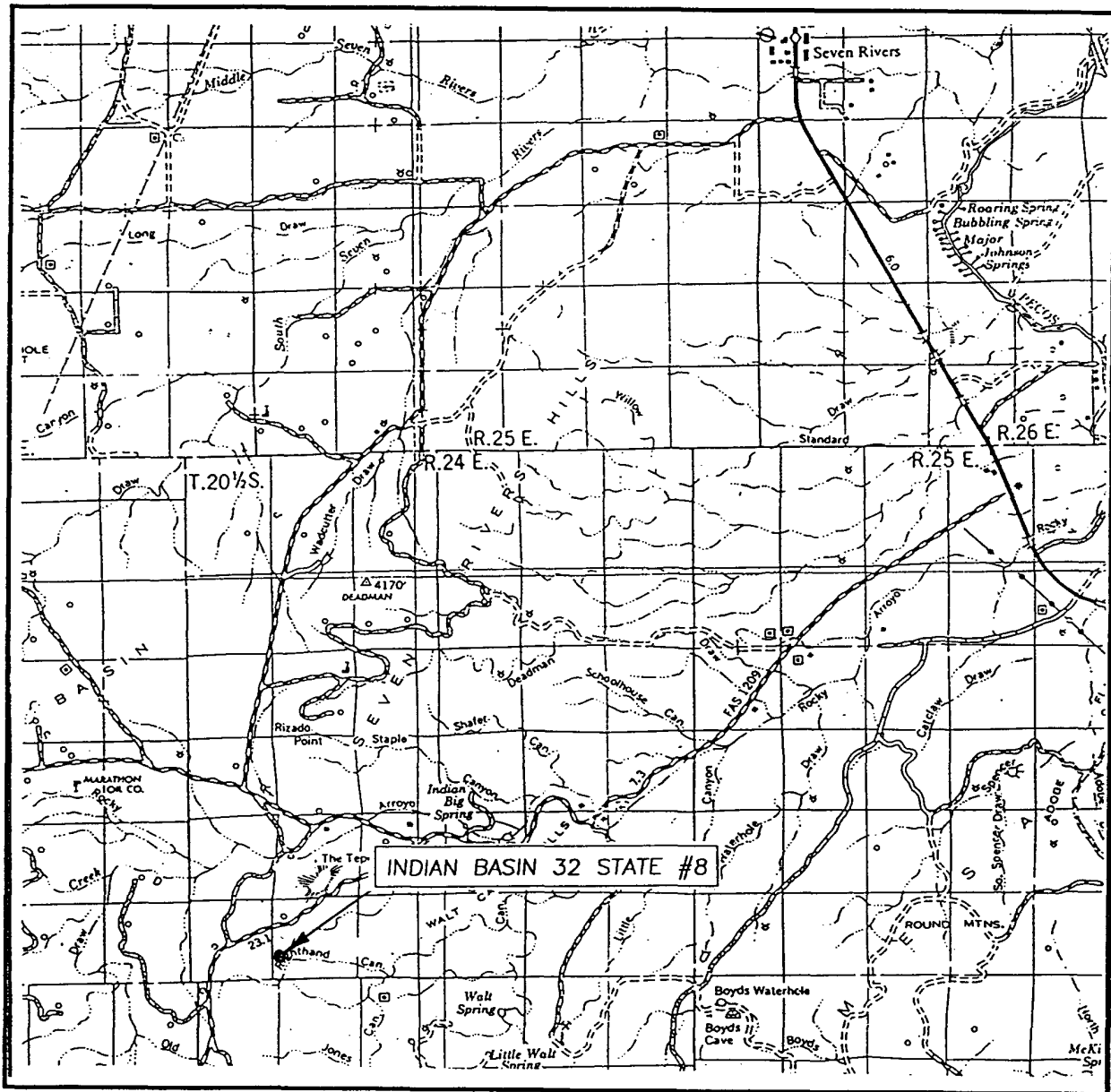
SURVEYOR CERTIFICATION

I hereby certify that the well location shown  
on this plat was plotted from field notes of  
actual surveys made by me or under my  
supervision, and that the same is true and  
correct to the best of my belief.

August 19, 2003

Date Surveyed  
Signature & Seal of  
Professional Surveyor  
August 19, 2003  
Certificate No. GARY EIDSON 12641

# VICINITY MAP

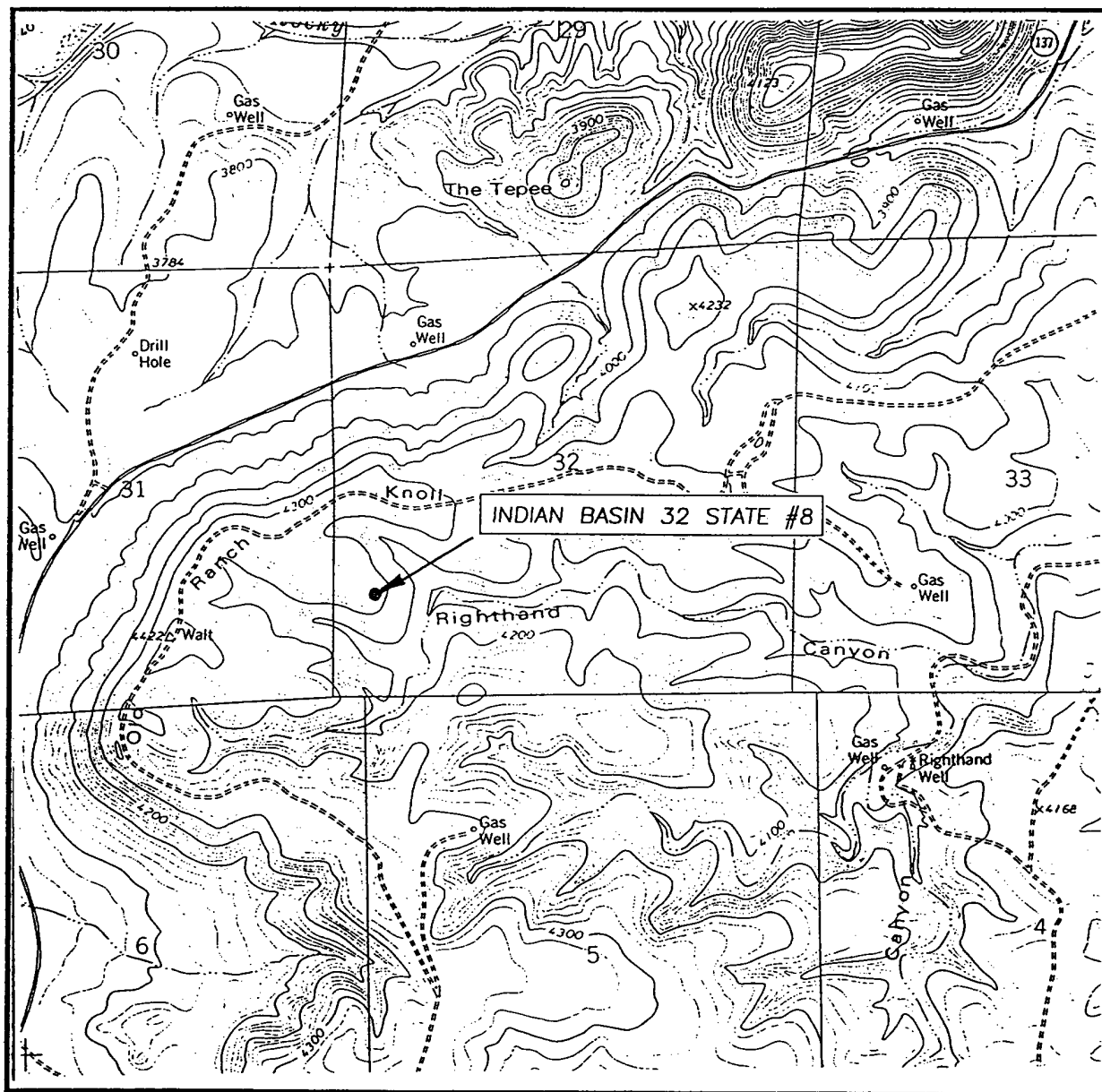


SCALE: 1" = 2 MILES

SEC. 32 TWP. 21-S RGE. 24-E  
 SURVEY N.M.P.M.  
 COUNTY EDDY  
 DESCRIPTION 1255' FSL 511' FWL  
 ELEVATION 4322'  
 OPERATOR MARATHON OIL COMPANY  
 LEASE INDIAN BASIN 32 STATE

JOHN WEST SURVEYING  
 HOBBS, NEW MEXICO  
 (505) 393-3117

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 20'  
MARTHA CREEK, N.M.

SEC. 32 TWP. 21-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1255' FSL 511' FWL

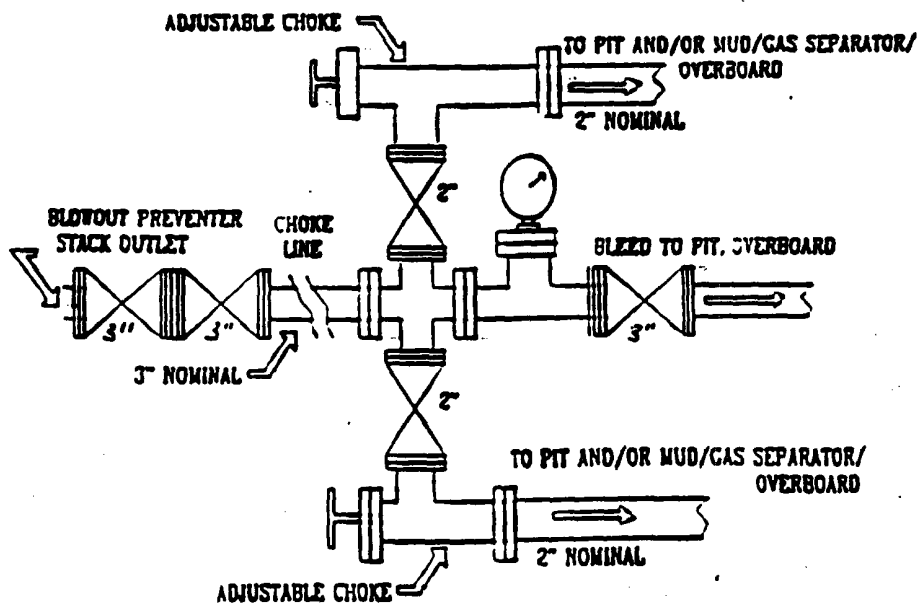
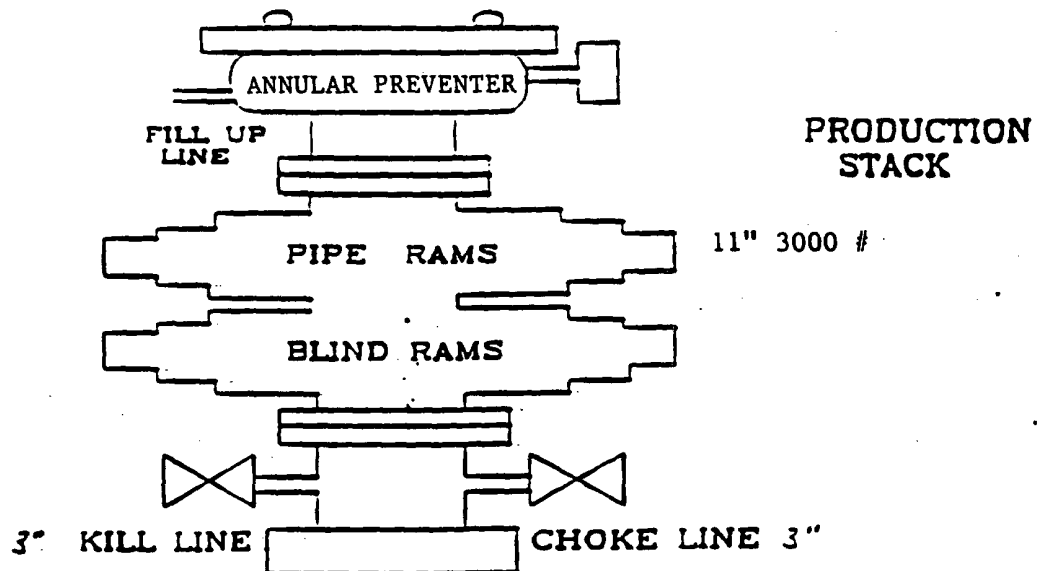
ELEVATION 4322'

OPERATOR MARATHON OIL COMPANY

LEASE INDIAN BASIN 32 STATE

U.S.G.S. TOPOGRAPHIC MAP  
MARTHA CREEK, N.M.

JOHN WEST SURVEYING  
HOBBS, NEW MEXICO  
(505) 393-3117



## **Exhibit "I"**

### **Marathon Oil Company**

#### **SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC PLAN)**

Marathon Oil Company has pollution prevention, good housekeeping, safety and fire prevention policies that are to be followed at all times. All company employees, contractors and subcontract personnel are to observe safe working practices and prevent pollution to the maximum extent possible.

In the event of an emergency, spill, fire, explosion or blowout, personal injuries, property or equipment damage, call **MARATHON OIL COMPANY @ 1-800-351-1417**

Prior to drilling, certain measures should be taken:

1. Use impervious materials to build the location and the reserve pit.
2. Ditch the outline of the rig toward the reserve pit.
3. Place sumps on each end of the rig to catch any free oil or debris from entering the reserve pit.
4. Keep materials on location to contain or clean up spills (absorbent pads, shovels, etc).
5. Make known to Drilling Supervisors a list of spill response contractors available.
6. BOP testing shall be performed each time a casing string is set.
7. The Drilling contractor is required to have a certified SPCC plan for the Drilling rig.
8. Routine inspections of the operations shall be performed to ensure SPCC guidelines are followed.
9. Ensure all Marathon personnel are HAZWOPER trained in methods for stopping, controlling, and cleaning up any spills.

Spill control measures to be taken:

1. Shut down activities underway, as deemed necessary by the person in charge.
2. Determine the source of pollution and stop the discharge, if possible.
3. Isolate and contain the discharged materials, if possible.
4. Seek guidance from the Southern Region Emergency Action Plan.

# **MARATHON OIL COMPANY**

## **H2S DRILLING OPERATIONS PLAN**

### ***I. HYDROGEN SULFIDE TRAINING***

All contractors and subcontractors employed by Marathon Oil Company will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S)
2. Safety precautions
3. Operations of safety equipment and life support systems

In addition, contractor supervisory personnel will be trained or prepared in the following areas:

1. The effect of H<sub>2</sub>S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

### **II. H<sub>2</sub>S EQUIPMENT AND SYSTEMS**

#### **1. Safety Equipment**

The following safety equipment will be on location.

- A. Wind direction indicators as seen in attached diagram.
- B. Automatic H<sub>2</sub>S detection alarm equipment (both audio and visual).
- C. Clearly visible warning signs as seen on the attached diagram. Signs will use the words "POISON GAS" and "CAUTION" with a strong color contrast.
- D. Protective breathing equipment will be located in the dog house and at briefing areas as seen in the attached diagram.

## 2. WELL CONTROL SYSTEMS

### A. Blowout Prevention Equipment

Equipment includes but is not limited to:

- a. pipe rams to accomodate all pipe sizes
- b. blind rams
- c. choke manifold
- d. closing unit

Auxillary equipment added as appropriate includes:

- a. annular preventor ☒
- b. rotating head ☒
- c. mud- gas separator ☒
- d. flare line and means of ignition ☐
- e. remote operated choke ☒

### B. Communication

The rig contractor will be required to have two-way communication capability. Marathon Oil Company will have either land-line or mobile telephone capabilities.

### C. Mud Program

The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices, and the use of H<sub>2</sub>S scavengers when appropriate will minimize hazards when penetrating H<sub>2</sub>S bearing zones.

D. Drill Stem Test intervals are as follows:

DST No. 1	_____ ft. to _____ ft.
DST No. 2	_____ ft. to _____ ft.
DST No. 3	_____ ft. to _____ ft.

Drill Stem Testing Safety Rules are attached.

## III. WELL SITE DIAGRAM

A complete well site diagram including the following information is attached.

- 1. Rig orientation
- 2. Terrain
- 3. Briefing areas
- 4. Ingress and egress
- 5. Pits and flare lines
- 6. Caution and danger signs
- 7. Wind indicators and prevailing wind direction



**PUBLIC PROTECTION PLAN  
MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS**

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\* = Link to an external document

# PUBLIC PROTECTION PLAN

## MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS

### 1. PURPOSE

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This plan is intended to protect the health and safety of the public, contractors and Marathon personnel should an unanticipated release of a potentially hazardous volume of *Hydrogen Sulfide* (H<sub>2</sub>S) occur.

Further to;

- Comply with the Bureau of Land Management's (BLM) Onshore Oil and Gas Operations; Onshore Oil and Gas Order No. 6, Hydrogen Sulfide Operations (43 CFR Part 3160:
- Comply with State of New Mexico Oil Conservation Division's (NMOCD) rule 19 NMAC 15.C.118.
- Comply with Marathon's Emergency Preparedness Policy & Plan located at; <http://mweb2.hst.moc.com/epg/eppp/eppp1.htm>
- Comply with EPA's Risk Management Plant (RMP)
- Assure proper notification of the appropriate parties and agencies

### 2. SCOPE

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The provisions of this document are intended address hydrogen sulfide (H<sub>2</sub>S) releases and H<sub>2</sub>S emergencies at Marathon's Indian Basin Gas Plant and all surrounding Marathon operated field locations in the Indian Basin field. Facilities for which calculations indicate a potentially hazardous volume of H<sub>2</sub>S could occur have additional site specific response information and radius of exposure drawn on the attached plat map. The field is located in Eddy County New Mexico, approximately 20 miles west of Carlsbad New Mexico.

This plan is intended to be used in conjunction with the Southern Business Unit's Emergency Response Plan, available electronically on the company intranet at [http://mweb.mid.moc.com/SBU\\_WEB/SBUHES/Emergency\\_Response/ERP2002.doc](http://mweb.mid.moc.com/SBU_WEB/SBUHES/Emergency_Response/ERP2002.doc) and applies to RMS Level I incidents, those that can be reasonably addressed by the Indian Basin Area field office and resolved within two days (approximate). Any incident which exceeds this scope will be managed by progressive levels of company resource. These are the Southern Business Unit and then by the Corporate Emergency Response Team (CERT).

### 3. DEFINITIONS

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**All Clear** – Notification of effected personnel, by the response leader, that the incident has ended and the area is safe to re-enter.

**A Potentially Hazardous Volume** means a volume of hydrogen sulfide (H<sub>2</sub>S) gas of such concentration that:

- The 100-ppm ROE includes any public area.
- The 500-ppm ROE includes any public road.
- The 100-ppm ROE exceeds 3,000 feet.

**Facility** – Equipment involved in producing, processing, or transporting natural gas and/or crude oil, including the property to the edge of the pad or fence.

## **PUBLIC PROTECTION PLAN**

### **MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS**

**Hydrogen Sulfide Gas (H<sub>2</sub>S)** - is a extremely flammable, colorless, poisonous gas that may occur naturally as a component of production streams, such as crude oil, produced water and natural gas. At low concentrations it has a rotten egg odor, but at higher concentrations deadens the sense of smell. Its specific gravity is heavier than air giving it a tendency to collect in low-lying areas on still days. The permissible exposure limit is 10 ppm and the short term exposure limit is 15 ppm. It is considered to be immediately dangerous to life and health at 300 ppm. H<sub>2</sub>S is readily dispersed in air and is water soluble.

**ICS (Incident Command System)** – A team based concept for emergency response in which roles and responsibilities are predetermined.

**Incident Commander (IC)** – Senior Marathon employee in charge of an emergency response.

**Incipient Stage Fire** – A fire in the beginning or very early stages of development, which can be effectively extinguished by one or more persons with portable fire fighting equipment.

**Muster site** - A pre-defined staging or meeting area.

**RMS (Response Management System)** - A project management system which facilitates taking command of an emergency event when response is initiated and turning the event into a controlled project with strategic objectives by providing daily and long-range planning.

**RMS Level I** – an emergency that can be reasonably addressed by SBU Area Office in which the incident occurs and that can be resolved in approximately two days or less.

**ROE (Radius of Exposure)** – The radius constructed with the point of escape (of gas) as its starting point and its length calculated using the Pasquill-Gifford derived equation or computer modeling where the H<sub>2</sub>S concentration is greater than 10%.

**PPM** – Parts per Million

**Public Area** – Any building or structure that is not associated with the well, facility or operation for which the ROE is being calculated and that is used as a dwelling, office, place of business, church, school, hospital, or government building, or any portion of a park, city, town, village or designated school bus stop or other similar area where members of the public may reasonably be expected to be present.

**Public Road** – Any federal, state, municipal or county road or highway.

**SBU** – Southern Business Unit

**Serious Incident** – An event which results or has the potential to result in severe personal injury and / or significant equipment damage.

**Sulfur Dioxide (SO<sub>2</sub>)** - A heavy colorless toxic gas that is formed when hydrogen sulfide is burned. It has a pungent odor and is a respiratory irritant. The permissible exposure limit is 2 ppm, the short term exposure limit is 5 ppm, It is considered to be immediately dangerous to life and health at 100 ppm. SO<sub>2</sub> is readily dispersed in air and is water soluble.

**Total Personnel Evacuation** - An evacuation of all person (Marathon employees, contract employees, or visitors) from the emergency area to a muster area.

#### **4. THE PLAN**

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# **PUBLIC PROTECTION PLAN**

## **MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS**

### **Training:**

All personnel (company, contractors and sub-contractors) working in the plant or field for Marathon Oil Company are required to complete hydrogen sulfide training before beginning work and annually thereafter.

Training on the contents of this plan shall be provided to all Marathon and appropriate contract personnel working at Indian Basin:

- initially when the plan is first implemented,
- whenever the employees' responsibilities or designated actions under the plan change,
- whenever the contents of the plan are changed/revised,
- whenever a new employee begins employment, and
- periodically as needed for all employees.

Marathon supervision is responsible for this training. Mock emergency drills involving facility evacuation and public protection measures shall be held periodically. Training and drills shall be critiqued, documented and kept on file for future reference.

### **Orientation:**

All persons visiting or working at Indian Basin shall receive an orientation covering the following minimum items:

- ☐ Southern Business Unit safety & environmental orientation
- ☐ What types of emergencies are possible,
- ☐ What the emergency evacuation alarm sounds like in the gas plant,
- ☐ How to report an incident/emergency,
- ☐ Who will be in charge during an emergency,
- ☐ How to safely evacuate the plant, and
- ☐ Where to assemble so that all persons can be accounted for.

The Marathon representative responsible for the contractors or visitors shall conduct the orientations and shall document attendees and dates.

### **H<sub>2</sub>S Monitors:**

All personnel working at Indian Basin are required to wear a personal H<sub>2</sub>S monitor at all times when working in the plant or field. Monitors should have a vibrating alarm if used in high noise areas.

### **Activation:**

Phase I - activated when:

1. Sustained H<sub>2</sub>S concentration reaches 10 parts per million (ppm) in any work area and the source is not readily identified and/or controllable.
2. Continuous H<sub>2</sub>S levels are detected at 10 ppm (or greater) at any public road, near an occupied residence or bus stop, and the source is not readily identified and/or immediately controlled.

Phase II – activated when :

1. A potentially hazardous volume of H<sub>2</sub>S is detected.
2. When sustained H<sub>2</sub>S concentrations exceed 50 ppm at any facility boundary.

### **Phase I:**

## PUBLIC PROTECTION PLAN MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS

Upon discovery on-site personnel should;

- ☐ Make others on-site aware of the presence of H<sub>2</sub>S and leave the area upwind or crosswind to a safe location. (Pre-determined if a pre-job tailgate meeting was conducted).
- ☐ Prevent unauthorized persons from entering the area. Request assistance if needed.
- ☐ If a residence or other public area is in the vicinity, monitor for H<sub>2</sub>S to ensure exposure is less than 10 ppm. Notify supervision if higher exposures are noted or if any other questions arise about steps necessary to protect these sensitive areas.
- ☐ If considering re-entering the area to assess the H<sub>2</sub>S source, ensure you have been properly trained to respond. Use an H<sub>2</sub>S monitor with digital display (preferably a multi-gas monitor) and have a supplied air respirator (SAR) and back up person with SAR readily available. Consider notification of supervisor if appropriate.
- ☐ Proceed with caution. If H<sub>2</sub>S concentration reaches 10 ppm in your breathing zone, back out and use SAR to re-enter. **If H<sub>2</sub>S concentration reaches 50 ppm at the facility boundary immediately notify supervision.**
- ☐ If source can be safely controlled, monitor area to ensure H<sub>2</sub>S levels are below 10 ppm. End response here and sound all clear to allow others to re-enter the area. Report length of release and volume to supervisor.
- ☐ If the source of H<sub>2</sub>S cannot be identified and/or controlled, or if you cannot do so without exposing yourself to danger, leave the area to a safe distance.
- ☐ Notify supervision
- ☐ Continue to monitor for H<sub>2</sub>S and maintain site security until instructed by supervision to do otherwise.

Supervision;

- ☐ Gather necessary information to determine the course of action and level of response.
- ☐ Mobilize any additional man power or equipment necessary.
- ☐ Ensure Phase II measures are implemented if appropriate.
- ☐ Continue to monitor situation until incident is over.
- ☐ Make notifications if required.
- ☐ Complete reports if required.
- ☐ Investigate as indicated.

*Reference: SBU Emergency Response Plan for reporting guidance.*

*[http://mweb.mid.moc.com/SBU WEB/SBUHES/Emergency\\_Response/ERP2002.doc](http://mweb.mid.moc.com/SBU_WEB/SBUHES/Emergency_Response/ERP2002.doc)*

### **Phase II**

Upon discovery on-site personnel should;

- ☐ Make others on-site aware of the presence of H<sub>2</sub>S and leave the area upwind or crosswind to a safe location. (Pre-determined if a pre-job tailgate meeting was conducted).
- ☐ Active the facility ESD if available and it can be safely done.
- ☐ Prevent unauthorized persons from entering the area.
- ☐ **Notify Supervisor.**

Supervision;

- ☐ Initiate the Incident Command System as deemed appropriate.
- ☐ Mobilize the resources necessary to maintain site security and provide for the protection of personnel and the public.
- ☐ Issue warnings to all MOC personnel by radio and or phone (IB Contact List) to make them aware of the incident and its location. Have non-essential personnel leave the area. If deemed necessary, order a total personnel evacuation of the area.

## PUBLIC PROTECTION PLAN MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS

- ❑ Notify non-company personnel known to work or reside in the area (IB Contact List). If necessary to ensure their safety, dispatch MOC personnel with the appropriate monitor, supplied air respirators and means of communication to these locations. (Appendix B)
- ❑ Have MOC personnel set up road blocks to prevent unauthorized entry into impacted areas until relieved by law enforcement or other authorized personnel.
- ❑ Make all appropriate notifications to MOC, Federal, State and local authorities.  
*Reference: SBU Emergency Response Plan for reporting guidance (section 9.0)*
- ❑ When the release has been contained and monitoring indicates the area is safe to re-enter, terminate operations and sound the all clear.
- ❑ Complete reports if required.
- ❑ Investigate as indicated.
- ❑ For spills, well blowouts, fires, natural disasters and terrorist or bomb threats are found in the *SBU Emergency Response Plan (Appendix B Response Guidance Documents)*.
- ❑ Refer to the facility specific response documents in Appendix C for more specific information.

All other personnel not involved in the immediate response;

- ❑ If a total evacuation is ordered, report to the Incident command center or nearest muster site to which you have safe access. (*See appendix A for muster site locations*)
- ❑ Ensure all contract personnel working for you (or in your area) are accounted for and have them report to a safe muster site.
- ❑ Senior employee at each muster site should make a roster of all personnel reporting to that muster site and be prepared to make it available to the incident commander (IC).
- ❑ Maintain communication with the IC and be prepared to offer assistance as it is requested.

### Ignition of H<sub>2</sub>S:

While no uncontrollable release of H<sub>2</sub>S is anticipated, should ignition of gas be necessary for the protection of personnel or the public, the determination would be made by the Marathon Incident Commander. The method of ignition will maintain the safety of the person performing this task as the primary concern. The most likely method would be the use of a flare gun from a safe distance.

If this becomes necessary, monitoring will include sulfur dioxide (SO<sub>2</sub>) in addition to H<sub>2</sub>S.

## 5. DISTRIBUTION AND REVIEW

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After approval, copies of this Plan shall be distributed to the following:

KA Tatarzan  
RV Coleman  
DA Brodbeck  
JJ Harrison  
CM Schweser

**PUBLIC PROTECTION PLAN  
MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS**

**6. APPROVALS**

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Approved by:	Name: _____	Date _____
	Title: Maintenance Supervisor	
	Name: _____	Date _____
	Title: Production Supervisor	
	Name: _____	Date _____
	Title: Plant Superintendent	
	Name: _____	Date _____
	Title: Operations Superintendent	

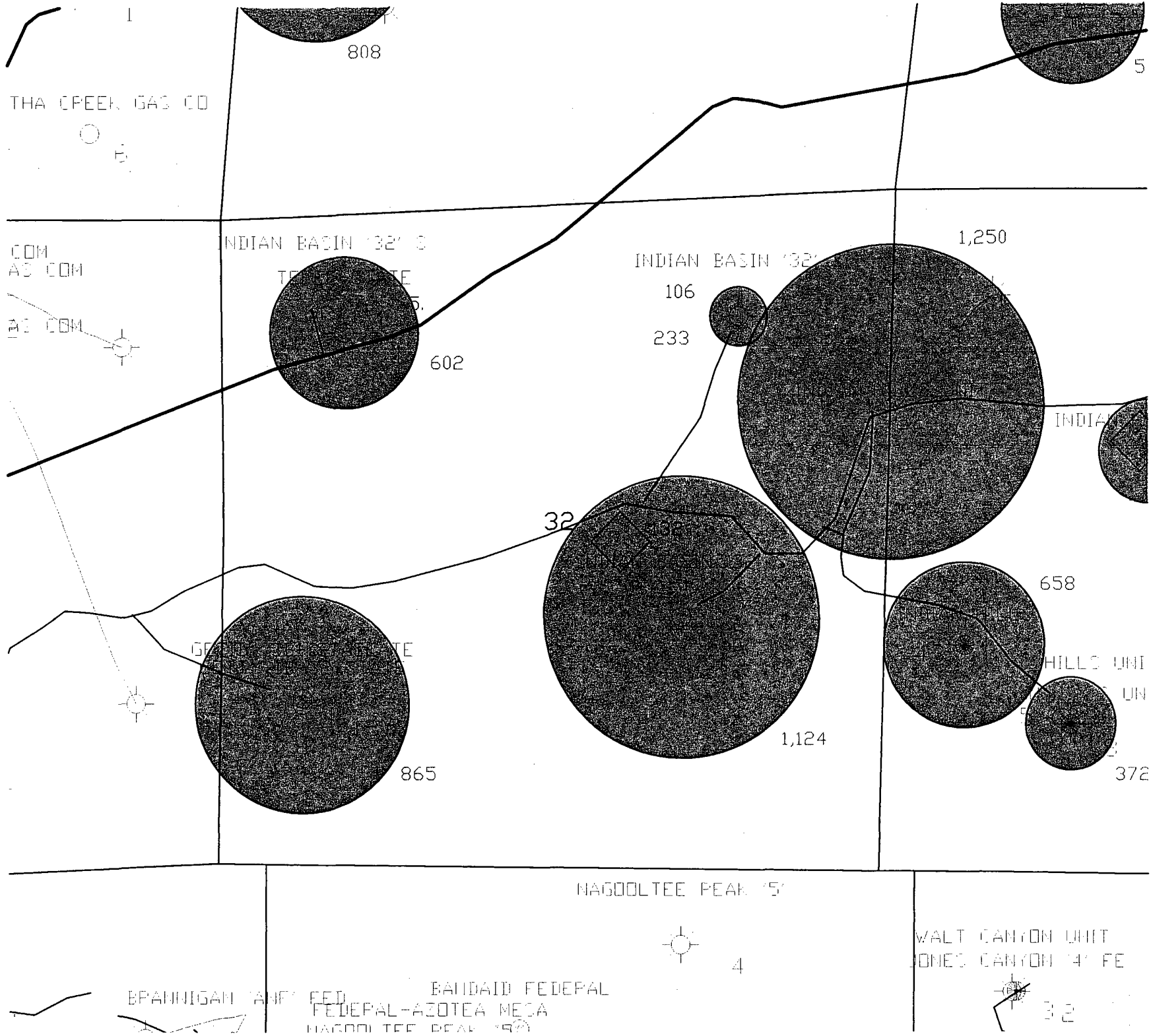
**PUBLIC PROTECTION PLAN  
MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS**

**7. Appendix A**

**(Back to Top)**

**ROE PLAT  
ROE Calculations**





**PUBLIC PROTECTION PLAN  
MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS**

**8. Appendix B**

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**Contacts List All IB contact Info List.xls**

**Maintained at O:/Permanent/Indian Basin Contacts**

# Emergency Services

<i>Service Provider</i>	<i>Description</i>	<i>Main Phone</i>			
<b>General Emergency</b>	<b>Police, Fire, Ambulance</b>	<b>911</b>			
Carlsbad Police, Fire & Ambulance Service		(505) 885-2111			
Artesia General Hospital	Medical Services	(505) 748-3333			
Carlsbad Fire Dept.	Fire Control	(500) 885-3124			
Artesia Fire Dept.	Fire Control	(505) 746-2701			
Happy Valley Fire Dept.	Fire Control	(505) 885-1982			
NM State Police	Sub-District 3, Carlsbad				
NM State Police	District 3, Roswell	(505) 622-7200	Dispatcher for our area		
Eddy County Sheriff	Law enforcement	(505) 887-7551			

## IB MARATHON EMPLOYEES

PRINTED 7/8/2003

Updated 6/25/03												
First	Last	Spouse	Extension	Cell Phone 1	Cell Phone 2	Pager Number	Radio #	Home Number	Home Address 1	City	Zip	
Keith	Anderson	Jo	156	(505) 365-7592	(505) 361-7592		hand held	(505) 628-1494	1218 MIEHLS	Carlsbad	88220	
Shawna	Austin	Lee	102					(505) 885-1626	306 DAGGER RD	Carlsbad	88220	
Richard	Aves		105	(505) 365-8258	(505) 361-8258		hand held	(505) 885-1990	1705 TREVINO COURT	Carlsbad	88220	
Winston	Ballard	Jan	128	(505) 365-8417		866-499-7610	18	(505) 885-5325	1819 #2 N. CANAL	Carlsbad	88220	
Jimmy	Barnett	Linda	110			866-499-7623	hand held	(505) 746-2818	P.O BOX 1173	Artesia	88210	
Javier	Berdoza	Jessica		(505) 365-5040	(505) 365-4471		21	(505) 746-1849	2304 W. MANN	Artesia	88210	
Pat	Bowen	Terri	133	(505) 365-8411	(505) 365-8422		26	(505) 748-2885	#3 NORTHGATE PLACE	Artesia	88210	
Gerald	Brasfield	Lauri	110		(505) 746-7593	866-499-5220	hand held	(505) 365-2116	#16 SHEILA RD.	Artesia	88210	
Dwight	Brodbeck	Brenda	131	(505) 365-7253			36	(505) 887-9097	305 FARRELL	Carlsbad	88220	
Robert (Bob)	Coleman	Kim	103	(505) 361-0898			1	(505) 628-0049	612 RIDGECREST DR.	Carlsbad	88220	
Monty	Corbett	Barb	140	(505) 365-7607	(505) 361-7607		34	(505) 628-3298	1701 N. Mesa	Carlsbad	88220	
Rick	Crawford			(915) 258-7726		(915) 488-3062						
Archie	Crossland	Lisa		(915) 528-1099		(915) 560-8804	5	(915) 381-2447	#2 BROKEN BOW	Odessa	79766	
Larry	Davis	Vickie	110			866-499-7619	hand held	(505) 748-9747	1404 HERMOSA DRIVE	Artesia	88210	
Dan	Dowhower	Melinda		(505) 365-8214	(505) 365-4471		38	(505) 885-0824	1422 VERDEL	Carlsbad	88220	
James	Faught	Norma	151	(505) 365-8259	(505) 361-8260		hand held	(505) 392-6575	308 E. ORCHARD LN #3	Carlsbad	88220	
Kenny	Garrett	Debbra	114	(505) 361-3459			15	(505) 748-2932	390 S. Haldeman Rd.	Artesia	88210	
Dolores	Gonzales			(505) 365-8413	(505) 365-4459		41	(505) 885-7680	PO Box 890	Carlsbad	88220	
Brady	Hamilton		142	(505) 365-7614	(505) 365-4531		40	(505) 361-0991	921 N. GUADALUPE	Carlsbad	88220	
Jerry (Bubba)	Harrison	Lynn	121	(505) 365-5863	(505) 365-5864		3	(505) 746-6754	34 W. BLEVINS ROAD	Artesia	88210	
Jack	Ivy	Gayla	138	(505) 365-8442	(505) 365-4859		17	(505) 748-2763	2007 W. RUNYAN	Artesia	88210	
Morris	Jones	Rhonda		(505) 365-6573		866-499-7639	33	(505) 746-0852	611 S. ROSELAWN	Artesia	88210	
Clint	Kirkos	Stephanie	110			866-499-7620	hand held	(505) 885-2883	14 TOBYN ROAD	Carlsbad	88220	
Timmy	Klein	Tammy	108	(505) 365-5518	(505) 365-5606		13	(505) 484-3675	P.O BOX 1463	Hope	88250	
Tanner	Larke							(505) 704-9071		Carlsbad	88220	
Al	Leyva	Corina		(505) 365-6854			22	(505) 887-6607	1900 W. Church Apt 29	Carlsbad	88220	
Wendell	Malone		110	(505) 365-7464			hand held	(505) 748-2575	2 E. BLEVINS RD.	Artesia	88210	
Steve (Sharky)	Morgan	Judy	111	(505) 365-7618		877-210-6841	16	(505) 745-3327	P.O BOX 283	Loving	88256	
Kalpesh (Ken)	Nasit	Nilam	115	(505) 365-7650	(505) 365-7660		hand held	(505) 885-4582	1300 North Pate St #F162	Carlsbad	88220	
John	Norris	Becky	146	(505) 365-6776		866-499-7612	10	(505) 887-3836	1814 SOLANA	Carlsbad	88220	
Jack	Rauch		110		(505) 887-6834	866-499-7617	hand held	(505) 885-8440	2129 HASTON RD.	Carlsbad	88220	
Pat	Reynolds	Cyndi	139	(505) 365-7514	(505) 365-4871		none	(505) 748-1472	1002 W. CLAYTON AVE.	Artesia	88210	
David	Rouse	Karen	110			866-499-7624	hand held	(505) 746-2619	2108 CENTER	Artesia	88210	
Margie	Ruiz		101				hand held	(505) 887-2025	2315 Washington	Carlsbad	88220	
Tito	Salmon			(505) 365-7623	(505) 365-4459		42	(505) 746-9364	1403 Hank Apt. 13	Artesia	88210	
Mike	Schweser	Leigh Ann	104	(505) 361-7331			2	(505) 885-0716	1535 ARBOR COURT	Carlsbad	88220	
Grant	Smith	Jena	137	(505) 365-7528			8	(505) 887-8245	508 Oakwood Place	Carlsbad	88220	
Donna	Suter	Todd	130					(505) 885-6226	818 E. Orchard Ln.	Carlsbad	88220	
Jim	Tomlinson	Sara	126	(505) 365-8403	(505) 361-8404		35	(505) 885-1868	1903 CALLAWAY DR.	Carlsbad	88220	
Will	Tran		148					(915) 352-5262		Carlsbad	88221	
Joe	Trevino	Terry	127	(505) 365-5899		866-499-7629	9	(505) 887-6225	P.O BOX 1372	Carlsbad	88220	
Reggie	Turner	Lanette	110	(505) 365-6562			hand held	(505) 746-6213	705 MANN	Artesia	88210	
Bruce	Turpin	Debora	110				hand held	(505) 887-1961	1901 Boyd DR. #37	Carlsbad	88220	
Dario	Velasquez	Delma	110			866-499-7621	hand held	(505) 628-8782	4214 HARMON LN.	Carlsbad	88220	
Bruce	Waldrip	Jan	107			866-499-7641	hand held	(505) 457-2252	506 LAKE ROAD	Artesia	88210	
Charlie	Williams	Beth	142	(505) 365-8441	(505) 365-4864		6	(505) 457-2393	5857 S. 7 RIVERS	Artesia	88210	
Don	Williams	Paula	117	(505) 365-5585	(505) 361-5586		11	(505) 628-8048	1418 S. Country Club Circ.	Carlsbad	88220	
Jim	Wilson	Dorothy	106	(505) 365-4257			hand held	(505) 746-6481	P.O BOX 351	Artesia	88210	
Chelsea	Winters		125					(505) 746-4662	2301 BULLOCK	Artesia	88210	
Tim	Winters	Rita	120	(505) 365-7589		364-1910	4	(505) 746-4662	2301 BULLOCK	Artesia	88210	
CERT - (toll free) 1-866-662-2378												
Field Radio Frequency (repeater) 451.650 MHz receive, 456.650 MHz transmit, tone 127.3 Hz												
Plant Radio Frequency 462.525 MHz (receive and transmit), tone 127.3 Hz												
Highlighted names are personnel that can be expected to lead an emergency response												

911 or Sheriff (505) 887-7551

NM St Police (505) 885-3737

To view the most current information go to: O:\Permanent\Indian Basin Contacts\All IB contact Info List.xls 7/8/2003

# MCR EMERGENCY RESPONSE PLAN

## INDIAN BASIN PRODUCTION AREA ICS STRUCTURE

<b>Incident Commander</b>						
Bob Coleman	(505) 457-2621 (Ext 103)	(505) 361-0898		(505) 628-0049	40	1
<b>Operations Section</b>						
Dwight Brodbeck* <sup>Field</sup> ♦	(505) 457-2621 (Ext 131)	(505) 365-7253		(505) 887-9097	24	36
Mike Schweser* <sup>IGBP</sup> ♦	(505) 457-2621 (Ext 104)	(505) 361-7331		(505) 885-0716	24	2
Jerry Harrison	(505) 457-2621 (Ext 121)	(505) 365-5864	(505) 365-5863	(505) 746-6754	24	3
Timmy Klein	(505) 457-2621 (Ext 108)	(505) 361-5606	(505) 365-5518	(505) 484-3675	24	13
Tim Winters	(505) 457-2621 (Ext 120)		(505) 365-7589	(505) 746-4662	24	4
<b>Planning Section</b>						
Grant Smith	(505) 457-2621 (Ext 137)	(505) 365-7528		(505) 887-8245	0	8
Jim Tomlinson	(505) 457-2621 (Ext 126)	(505) 361-8404	(505) 365-8403	(505) 885-1838	0	35
Richard Aves	(505) 457-2621 (Ext 105)	(505) 361-8258	(505) 365-8258	(505) 885-1990		
Ken Nasit	(505) 457-2621 (Ext 115)	(505) 365-7650	(505) 365-7660	(505) 885-4582		
Monty Corbett	(505) 457-2621 (Ext 140)	(505) 365-7607	(505) 361-7607	(505) 628-3298		34
<b>Logistics Section</b>						
James Faught*	(505) 457-2162 (Ext 151)	(505) 361-8260	(505) 365-8259	(505) 392-6575	24	32
Sharky Morgan	(505) 457-2621 (Ext 111)	877-210-6841	(505) 365-7618	(505) 745-3327	24	16
Bruce Waldrip*	(505) 457-2621 (Ext 107)	(866) 499-7641		(505) 457-2252	24	13
<b>Safety</b>						
Pat Reynolds*	(505) 457-2621 (Ext 139)	(505) 365-4871	(505) 365-7514	(505) 748-1472	40	Handheld
Jim Wilson	(505) 457-2621 (Ext 106)	(505) 365-4257		(505) 746-6481	40	Handheld
Jack Ivy	(505) 457-2621 (Ext 128)	(505) 365-4859	(505) 365-8442	(505) 748-2763	24	17
<b>Public Affairs</b>						
Pat Bowen	(505) 457-2621 (Ext 133)	(505) 365-8422	(505) 365-8411	(505) 748-2885	24	26

\* Denotes Command Staff/Section Chief "Lead" if applicable.

♦ Denotes Alternate Incident Commanders

EMERGENCY RESPONSE PLAN – Note! This document is maintained electronically. The current document can be viewed at;

O:\Permanent\Indian Basin Contacts\IB\_ICS.doc

Revised 3/24/03

PJR

# AREA RESIDENTS AND OFFSET OPERATORS

PRINTED 7/8/2003

Updated 4/18/03 Location Description	Contact	Title	Address		Phone 1	Cell 1	Location Information.	GPS data
4TK + (Boles)	Mark & Sandi	Wilkie	1073 Marathon Road	Carlsbad, NM 88220	1 505 457 2022			
Foster Ranch	John	Foster	P.O. Box 103	Artesia, NM 88211-0103	1 505 457 2165			
Forrest Lee Ranch	Dean	Lee	P.O. Box 89	Lakewood, NM 88254	1 505 457 2301		Trailer house near NIBU 24	ne 13, 539490 east, 3595793 north
Gissler Ranch	Billy	Cox	344 Ponderosa Pine	Carlsbad, NM 88220	1 505 457 2397			
Gregory's	Wayne	Gregory	617 Queens Highway	Carlsbad, NM 88220	1 505 457 2245			
HH Ranch	Harold	Houghtaling	P.O. Box 234	Artesia, NM 88211-0234	1 505 457 2245			
Howell Ranch	Richard	Howell	P.O. Box 94	Lakewood, NM 88254	1 505 4572602			
Kincaid Ranch	Gene	Kincaid	2913 Octotilly Canyon Dr.	Carlsbad, NM 88220	1 505 887 6918			
Kincaid Ranch	Hugh	Kincaid	2911 Octotilly Canyon Dr.	Carlsbad, NM 88220	1 505 885 9458			
Kincaid Ranch	Jim	Marbauch	1762 Qureen Highway	Carlsbad, NM 88220	1 505 457 2233		Lives at ranch house, just east of Hwy 137 about two miles past the mile marker 42 toward Queens.	
Old Jones Ranch (rock house)	Rick	Lasiter			(505) 457-2108			
Schafer Ranch	Stacey	Biebelle	646 Qureens Highway	Carlsbad, NM 88220	1 505 457 2360		Houses near low water crossing on Hwy 137. Also own the trailer house where Patsy lived near IHU 27.	
Patsy's old house	Neil	DeMoss			none			
Chevron Oil	Randy	Boles				(505) 390-7232		
Chevron Oil	Kenneth	Angel				(505) 390-1540		
Devon	Daniel				(505) 390-5850			
Devon	Owen	Crosbey			(505) 748-7749			
Devon	Mike	Huber			(505) 748-5502			
Devon	Don	Canada			(505) 748-5503			
Devon	Brady				(505) 390-5431			
Devon	Joe	Huber	Superintendent		(505) 390-5438			
Devon	"Doghouse"				(505) 457-2613			
Duke Energy	Johnny	Lamb	Foreman		(505) 390-2791			
Duke Energy	Main Office		Carlsbad		(505) 628-0282			
Duke Energy	Oscar	Valenzuela			(505) 910-4675			
El Paso	David	Jacquez	Gas measurement		(505) 857-2158			
KMG (Kerr McGee)	Tommy	Deese	Superintendent		(505) 234-2703	(505) 706-3423		
KMG (Kerr McGee)	Andy	Chalker	Production foreman		(505) 234-2703	(505) 910-0342		
KMG (Kerr McGee)	Bobby	Hess	Team Leader		(505) 234-2703	(505) 706-3543		
KMG (Kerr McGee)	James	Wilson						
KMG (Kerr McGee)	Steve	Brannon			(505) 390-1540	(505) 706-3669		
Yates Petroleum (Agave)	Main Office				(505) 748-1471			
Yates Petroleum (Agave)	Bill	Johnson	Foreman		(505) 748-6816	(505) 365-4615		
Yates Petroleum (Agave)	Robert	Moorehead			(505) 748-6815	(505) 365-4840		

911 or Sheriff (505)887-7551

NM St Police (505)885-3737

To view the most current information go to: C:/Permanent/Indian Basin Contacts/All IR contact Info List.xls

# IB CONTRACTORS

PRINTED 7/8/2003

updated 6/25/03									
Company	First	Last	Ext.	Cell Phone 1	Cell Phone 2	Pager Number	Pager #2	Radio #	Home Number
Aranda's Welding	Joe	Aranda		(505) 365-8079				19	
B&H Construction	Mike	Wright		(505) 706-0550					
B&H Construction	Alan	Walker		(505) 706-0565		(800) 647-4350			
Centrilift	Steve	Fulwider	134	(915) 413-9324		(877)405-2413	(505)364-1852	30	(505)234-1658
Centrilift	Daniel	Ruiz		(915) 413-2144		(877)715-5026	(505)364-1867		(505)746-0160
Centrilift	Joe	Lisenbe	134	(915) 413-2117		(888) 848-2491			
Champion Technologies	Jay	McKee	145	(505) 361-0656					
Champion Technologies	Tommy	Morrison		(915) 661-9195					(915) 758-5855
Corrosion Specialties	Ronnie	Parrish		(915) 638-5834					
Dean's Elect	JD	Atkins		(505) 748-5861		(500) 364-1237			(505)746-8797
Hanover	Neil	Estes		(505) 706-0900		(505) 339-1309			(505) 887-6139
Hanover	Billy	Bryan		(505) 706-0890		(505) 339-1400			(505) 887-8256
Hanover	Jr.	Rocha		(505) 706-0901		(505) 339-1404		24	
Hanover	Chris	Goff		(505) 706-0903		(505) 339-1402			
Indian Fire & Safety	Travis	Cochran		(505) 369-8629					
Key Energy	Marcos	Hernandez	136	(505) 706-0228	(505) 706-0229			31	
Key Energy	Jimmy	Houchin						109	
Key Energy	Tony	Cope						108	
Mesquite Services	Arturo	Moreno		(505) 910-5056	(505) 420-4399	1-800-560-9557		107	
Mesquite Services	Ricky	Buendia						105	
Nalco/Exxon	Randy	Fulwider	155	(432) 208-2280				39	(505) 885-1990
Nalco/Exxon	Brad	Howell		(806) 893-1462		(877) 209-7701			(806) 592-3153
Nalco/Exxon	Ismael	Porras		(806) 215-0771					(505) 234-1696
NGM	Larry	Lejune		(505) 420-7752	(505)420-7751				(505)623-8423
NGM	Alfonso	Fuentez		(505) 910-0319					(505) 887-9174
RedMan	David	Anaya	457-2163	(505) 365-5172		866-499-7637			
Ryder Welding	David	Bustamente							
TESSCO	Gary	Hodge		(505) 390-3542	(505) 390-9833			14	(505)628-8449
TESSCO	Mike	Whitaker		(505) 631-7660	(505) 631-9492	Office 236-6266			(505) 887-0743
TESSCO	Tim	Methola		(505) 390-5836	(505) 390-5871				(505) 885-3490
TESSCO	Jr.	Hernandez		(505) 390-6520					(505) 631-8303
TESSCO	Michael	Sanchez		(505) 390-6520					(505) 628-0203
Truck &Tractor	David	Wilson		(505) 365-6758		800-232-3073			
WSI / Unit101	James	Perez		(505) 365-4735		(505)364-1872		101	(505)628-1067
WSI / Unit103	Thomas	Martinez		(505) 361-3804	302-3086	(505)364-1871		103	(505)887-7096
WSI Unit 103	Juan	Chavez						103	(505)628-8355
WSI Unit 103	Luis	Olivas						103	(505) 887-0542
WSI Unit 100	George	Martinez		(505) 361-2027		(505)364-1858		100	(505) 628-1788
WSI Unit 100	Fernando	Fierro						100	(505) 885-8041
WSI Unit 100	Jesse	Franco						100	(505)628-0726
WSI Unit 110	Ramon	Contreras		(505) 361-2002		(505) 234-2448		110	(505)887-8372
WSI Unit 110	Ramon	Ortega						110	(505)887-3771

## IB CONTRACTORS

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WSI Unit 110	Anthony	Trevino						110	(505)887-8043
Weatherford	Barney								
Wild Well Control									



# **PUBLIC PROTECTION PLAN MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS**

## **9. Appendix C**

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### **C-1 Indian Basin Gas Plant - Site specific response information**

#### **Content**

##### **Facilities Data**

- A. Location
- B. Operations
- C. Fire Protection
- D. Emergency Alarm System
- E. Plant Communications
- F. Emergency Shutdown System
- G. Manning

##### Action Plans for Emergency Situations

##### Response Equipment

#### **FACILITIES DATA**

##### **A. Location**

The Indian Basin Gas Plant (IBGP) is located in Eddy County of southeastern New Mexico approximately 24 miles from Carlsbad, New Mexico and 30 miles from Artesia, New Mexico. The plant is surrounded by Federal Government lands managed by the Bureau of Land Management (BLM). There are no residences or private dwellings in close proximity to the plant; however, much of the land is used for cattle grazing. County road 401 runs east west directly to the north of the plant and carries very light public traffic. The terrain is uneven with hills and dry waterways. Vegetation in the area is sparse.

##### **B. Operations**

The plant is currently processing approximately 300 MMSCF/D. Residue gas is sold on a spot market basis. Approximately 12,500 BPD of natural gas liquids (NGL) and 360 BPD of condensate are recovered.

Gas from the field passes through inlet separators, and then into one of two parallel treating units to remove hydrogen sulfide and carbon dioxide. Gas from the first amine unit (A-1) flows to a glycol contactor to remove moisture, molecular sieve beds to remove remaining moisture, a dust filter and then on to one of two cryogenic units for NGL extraction. Demethanizer towers adjacent to the cryo skids provide final separation of the methane sales gas and NGL product.

Overhead sales gas from the demethanizers pass through heat exchangers, the expander booster compressors and is compressed further by one of four solar turbine compressors.

Gas that passes through the second amine system (A-2) then flows to a molecular sieve treater (GTU) to remove water and any remaining sulfur compounds, residue from the GTU recombines with the residue from the cryogenic plants prior to being compress to pipeline pressure in the tubing outlet compressor.

NGL's from the two demethanizers flow to their respective product surge tanks at 320 to 360 psig. From there the NGL's are pumped by booster pumps to a Chevron Operated product pipeline, via pipeline pumps, located inside the plant fence at the southeast corner of the yard approximately 50 feet from condensate storage bullets located immediately outside the south fence. Occasionally, NGL's are stored in three of the bullets when product cannot be shipped.

## PUBLIC PROTECTION PLAN MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS

Condensate is received directly from the field and is recovered from inlet separators. Water is removed from the condensate by settling in the inlet tank. The condensate is then processed through a stabilizer and sent to storage. Two of the seven total bullet tanks are currently used for condensate storage. One bullet is a flare drum, three are designated for emergency product storage and one is idle. Condensate is shipped by truck from the rack located east of the plant approximately 100 feet from the fence. Truck shipments are usually two or three trucks per day. There are days when no truck shipments are made.

### C. Fire Protection

Gas plant employees and contract employees shall attempt to only extinguish incipient stage fires. Fires that cannot be effectively extinguished with hand or wheeled portable fire extinguishers shall not be fought by employees or contractors.

Portable 30 lb. And 150 lb. (wheeled ) fired extinguishers are strategically located throughout the gas plant. All company trucks are also equipped with 30 lb. fire extinguishers.

### D. Emergency Alarm System

The gas plant emergency alarm system has two encoders for activating the various system capabilities. These encoders are located in the gas plant main office and in the control room. The alarm system has several different tones that can be used; however, the WAIL tone is currently used for emergency evacuation purposes. The system also has the capability for delivering pre-programmed voice messages to warn of "high H<sub>2</sub>S", "fire", "high pressure line rupture", "tornado warning", and "plant evacuation". A public address (PA) system is also built into the system so that customized messages can be voiced over the speaker tower. The system utilizes one speaker tower located in the center of the plant.

**The IBGP radio must be set to CHANNEL F1 in the gas plant office for the emergency alarm system to be functional.**

The emergency evacuation alarm should be tested monthly at a minimum. This test should be documented and kept on file for future reference. Tests are performed at the start of each monthly safety meeting.

### E. Plant Communications

Aside from the PA function of the emergency alarm system, the gas plant has a telephone system with multiple lines. Phones are located throughout the gas plant offices and in the control room. Several hand-held radios are maintained and utilized by gas plant operators. Plant and field vehicles are equipped with radio as well.

An emergency telephone is located on County Road 401 approximately ¼ mile east of the gas plant (by borehole

84). In the event that a total personnel evacuation is initiated and appropriate calls cannot be made before leaving the plant, this telephone, equipped with a combination locked enclosure, can be accessed by gas plant personnel to notify Marathon supervision, nearby residents, support agencies, etc.

**Lock Box Combination: 2621**

**Telephone Number: 505-457-2486**

### F. Emergency Shutdown System

The gas plant is equipped with an emergency shutdown (ESD) system and a blowdown system. In the event of an emergency, appropriate personnel will determine the need for ESD and blowdown system actuation. Six (6) actuation stations are located throughout the gas plant. These locations are:

1 Southeast plant fence exit

4 West plant fence exit

## PUBLIC PROTECTION PLAN MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS

- |                                    |                             |
|------------------------------------|-----------------------------|
| 2     East plant fence exit        | 5     Near South amine pump |
| 3     Front plant gate (Northeast) | 6     Control room          |

### F.     Hydrogen Sulfide Detection

Fixed hydrogen sulfide (H<sub>2</sub>S) detection equipment is located at the Sulfur Recovery Unit (SRU), the Acid Gas Compressor and throughout the Amine Systems. Upon detection of hydrogen sulfide, a beacon light and audible alarm will actuate in the area where H<sub>2</sub>S is detected. Personnel shall immediately evacuate the area. The alarm is also annunciated in the control room. Personal hydrogen sulfide monitors shall be worn at all times when in the gas plant.

### G.     Manning

The plant is attended 24 hours per day, 365 days per year. A minimum of two operators are on duty in the plant at all times.

## ACTION PLANS FOR EMERGENCY SITUATIONS

The primary Incident Control Center will be the Gas Plant Office Conference Room. In the event that this area is deemed unsafe, the Gas Plant Superintendent will designate an alternative location.

The **primary muster area** is located across the road of the main office. If this primary location is deemed unsafe for assembly due to the close proximity of the incident site, wind direction, or other reason; an alternative (**secondary**) muster area has been designated southeast of the plant near the scrap metal storage area (beyond the horizontal storage bullet tanks). If this area is also deemed unsafe for any reason, another muster area will be announced over the PA speaker.

In the event of a serious incident within or in close proximity of the Indian Basin Gas Plant, the Plant Superintendent will assume emergency command. If the incident occurs on a lightly manned shift, the senior employee will assume emergency command until the Plant Superintendent or designee arrives on site.

### A.     General Emergency Action

1. When a serious incident is discovered, the Plant Superintendent shall be immediately notified by radio or telephone. If this notification time increases the risk of injury to personnel or serious damage to facilities, the employee shall take immediate action (s) to control or attempt control of the incident if trained to do so. This action may include activation of the ESD system and /or plant evacuation alarm.
2. Once the Plant Superintendent assumes command of the incident, all other personnel, both Marathon and contractor, are responsible to take appropriate actions as directed by the plant Superintendent or designee.
3. If the incident cannot be immediately controlled and significant risk of injury to personnel is apparent, the Plant Superintendent shall order total personnel evacuation of the plant by activating the emergency alarm system for evacuation.

## PUBLIC PROTECTION PLAN MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS

Field personnel shall be notified by radio of the situation and instructed to proceed to one of the designated muster sites to await further instruction.

4. All personnel shall immediately take notice of the wind direction and proceed crosswind or upwind of the incident or plant to the main muster area, located at the front plant entrance gate. If this primary muster area is deemed unsafe, an alternative muster area will be announced over the PA system.
5. The Plant Superintendent shall designate one of the Marathon employees to take a written head count of all persons, both Marathon and contract employees and any visitors. IBGP employees and contractors/visitors should muster in separate groups to aid in a swift headcount. Personnel unaccounted for will then be reported to the Plant Superintendent as soon as possible.
6. A search for missing personnel will be made only if it can be performed safely. Two volunteer Marathon employees with appropriate training and personal protective gear shall perform the search. These searchers shall remain within eye contact of one another and in radio contact of the Plant Superintendent for the duration of the search. A backup team of two employees with appropriate training and gear shall be designated and on standby.
7. Once all personnel are accounted for at the muster area, the Plant Superintendent or his designee may assign incident-specific assignments to respond and attempt control of the emergency. Personnel designated to reenter the plant shall be provided all necessary personal protective and atmospheric monitoring equipment and shall at all times utilize the buddy system and maintain radio contact with the muster area.
8. Once the incident is determined by the Plant Superintendent to be under control, he/she shall appoint a team of at least two Marathon employees with appropriate personal protective and monitoring equipment to perform a post-incident survey.
9. Once the plant is determined by the survey team to be safe, the Plant Superintendent will give the "all clear" for personnel to reenter the plant.
10. Appropriate notification of Marathon and governmental agencies shall then be made.  
*Reference: SBU Emergency Response Plan for reporting guidance (section 9.0)*
11. While the incident scene remains undisturbed, an incident investigation team shall commence investigation as soon as possible.

### **Response Equipment:**

The following items and equipment should be located at or be readily accessible from the Incident Control Center for effective emergency assessment, communication and action:

- Company vehicles

## **PUBLIC PROTECTION PLAN MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS**

- Hand-held portable radios (intrinsically safe)
- Personal hydrogen sulfide monitors
- Multi-function gas detector (hydrogen sulfide, LEL, oxygen) *Normally found in plant control room.*
- Self-contained breathing apparatus (SCBA)\*
- This plan
- Gas plant layout maps
- Process flow diagrams
- Chemical resistant clothing, gloves, and boots\*
- Goggles, face shields, hearing protection, etc.\*
- Portable fire extinguishers.\*

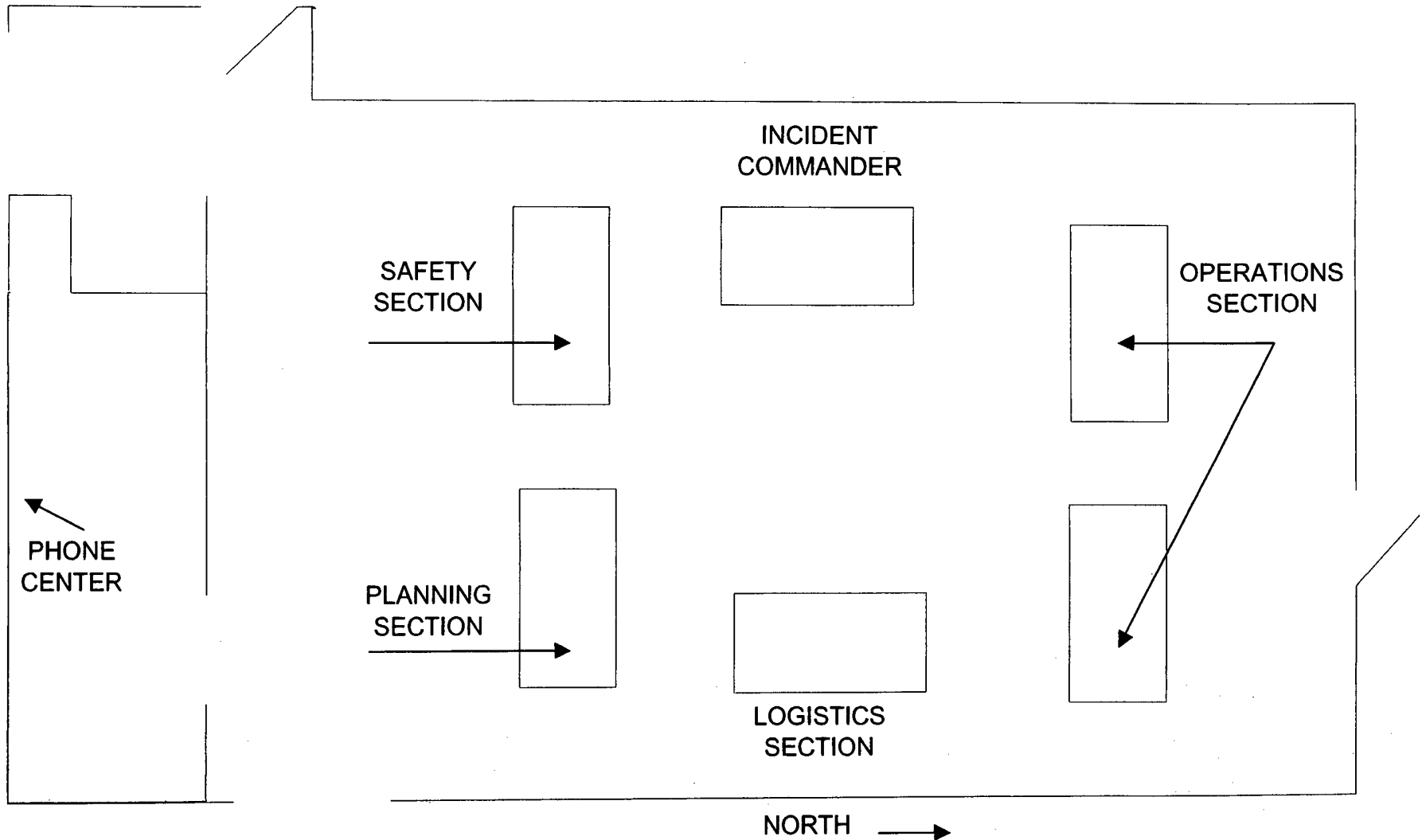
\* **Located in Emergency Response Trailer**

**PUBLIC PROTECTION PLAN  
MARATHON OIL COMPANY - INDIAN BASIN OPERATIONS**

**11. Appendix E**

(Back to Top)

Tables will be arranged according to the lay out below when implementing the ICS structure at Indian Basin in the plant office conference room.



# MARATHON OIL COMPANY -INDIAN BASIN INTEGRATED CONTINGENCY PLAN

## Section I – Plan Introduction Elements

### 1. Purpose and Scope of Plan Coverage

This integrated contingency plan is meant to provide guidance in the event of emergencies resulting from identified hazards for all of Marathon's Indian Basin Gas Plant and Field operations. These operations include normal gas production operations, drilling, workovers/completions, and salt water disposal. Events addressed by this plan include, uncontrolled gas release, fires, explosions, bomb threats, natural disasters and spills.

It provides site specific information and is intended to be used in conjunction with Marathon's corporate and Southern Business Unit emergency action plans. The main objective is to protect the safety and health of employees, the public and to protect the environment.

#### Reference:

EPA's Oil Pollution Prevention Regulation - 40 CFR part 112.7(d) and 112.20-.21

EPA's Risk Management Programs - 40 CFR part 68

EPA's RCRA Contingency Planning – 40 CFR part 264, Subpart D, 40 CFR part 265, Subpart D, and 40 CFR 279.52

OSHA's Emergency Action Plan – 29 CFR 191038(a)

OSHA's Process Safety Standard – 29 CFR 1910.119

OSHA's HAZWOPER Regulation – 29 CFR 1910.120

BLM's Onshore Order 6

OCD's Rule 118

### 2. Table of Contents

- Section I – Plan Introduction Elements
- Section II – Core Plan Elements
  - Discovery
  - Initial Response
  - Sustained Actions
  - Termination and Follow-Up Actions
- Section III – Annexes
  - 1. Facility and Locality Information
  - 2. Notification
  - 3. Response Management System
  - 4. Incident Documentation
  - 5. Response Critique and Plan Review and Modification Process
  - 6. Prevention
  - 7. Regulatory Compliance and Cross-Reference Matrices

### 3. Plan created date: 3/25/02

Revised date:

# MARATHON OIL COMPANY -INDIAN BASIN INTEGRATED CONTINGENCY PLAN

## 4. General Facility Identification Information

a. Indian Basin Gas Plant & Field Operations

b. Owner/Operator Marathon Oil Company

c. (1) Physical Address: 329 Marathon Road  
Lakewood, NM 88254

(2) Mailing Address: P.O. Box 1324  
Artesia, NM 88210

Phone: 1-505-457-2621

The Indian Basin Gas Plant is located approximately 25 miles West of Carlsbad in Eddy county New Mexico, Unit Letter G, Section 23, Township 21 South, Range 23 East. The Indian Basin field operations surround the plant location.

### Driving instructions:

From Carlsbad, NM drive North on US Hwy 285 for approximately 12 miles until you reach the NM 137 turn off, just past mile marker 45, turn left (south west) onto NM 137 and drive approximately 8 miles to the junction of NM 137 and Marathon Road (also County Road 401). Turn right onto Marathon Road. Drive approximately 7 miles. The plant and field offices are located on the left hand (South) side of the road.

From Artesia, NM drive South on US Hwy 285 to mile marker 51. Turn right onto White Pine (also called County road 28) and drive until the paved road dead ends at the intersection with Marathon Road (Cty 401). Turn right and drive approximately 3 miles. The plant and field offices are located on the left hand (South) side of the road.

d. Send correspondence to the address above (4.c.2).

Attention: C.M. Schweser for plant related items.

Attention: D.A. Brodbeck for field related items

e. Other identifying information

SIC codes:

f. Contacts for plan development and maintenance.

R.V. Coleman – Operations Superintend Ext. 103

C.M Schweser - Plant Superintend Ext. 104

D.A. Brodbeck – Production Supervisor Ext. 131

P.J. Reynolds – E&S Technician Ext 139

g. Phone number for contacts: 1-505-457-2621 + extension.



## **MARATHON OIL COMPANY -INDIAN BASIN INTEGRATED CONTINGENCY PLAN**

- h. Facility phone number is 1-505-457-2621,  
For emergencies dial 8 to ring all extensions.
- i. Facility fax number is 1-505-457-2621.

# MARATHON OIL COMPANY -INDIAN BASIN INTEGRATED CONTINGENCY PLAN

## Section II – Core Plan Elements

1. Discovery
  - ☐ Ensure safety of yourself and all other personnel working in the area by moving to a safe area.
  - ☐ Notify Marathon supervision of the emergency. Specify nature and extent.
  - ☐ If you can safely shut in the source, (i.e. remote ESD or valves) do so, otherwise await instructions.
2. Initial Response
  - a. Procedures for notifications.
  - b. IC System

Marathon utilizes the ICS (Incident Command System). The Production Superintendent or his designee serves as incident commander for local responses. The ICS structure for Indian Basin operations is attached.
  - c. Procedures for incident assessment.
  - d. Response Procedures
    - 1 Immediate goals
    - 2 Mitigating actions
    - 3 Response resources
  - e. Procedures for implementation of tactical plan
  - f. Procedure for resource mobilization.
3. Sustained Actions:
4. Termination and Follow-Up Actions.

NOTE: Test Gas Rate is highest monthly test three (3) most recent tests as of 9/30/02

NOTE: Test Gas Rate is under assumption that well is vented to atmosphere with artificial lift st

Percentage over test buffer = 20%

Pasquill - Gifford

Lease	Well	Gas Rate (MSCFD)	Gas Rate (MSCFD) w/Buffer	100 ppm	500 ppm
Bone Flats Federal 12	1	8	10	26	12
Bone Flats Federal 12	2	4	5	17	8
Bone Flats Federal 12	3	30	36	60	27
Bone Flats Federal 12	4	144	173	159	73
Bone Flats Federal 12	5	44	53	76	35
Bone Flats Federal 12	6	28	34	57	26
Comanche Federal 3	1	795	954	372	170
Comanche Federal 3	2	295	354	200	91
Federal C 35	1	2234	2681	547	250
Federal C 35	2	120	144	88	40
Federal C 35	3	4040	4848	793	362
Federal Indian Basin A Gas Com	1	461	553	222	101
Federal Indian Basin A Gas Com	2	1044	1253	370	169
Federal Indian Basin B Gas Com	1	233	280	160	73
Federal Indian Basin C Gas Com	1	529	635	304	139
Federal Indian Basin C Gas Com	2	791	949	391	179
Federal Indian Basin D Gas Com	2	0	0	0	0
Indian Basin A	1	770	924	306	140
Indian Basin A	2	1120	1344	387	177
Indian Basin A	3	384	461	198	90
Indian Basin A	4	807	968	315	144
Indian Basin C	1	487	584	230	105
Indian Basin C	2	96	115	83	38
Indian Basin C	3	2072	2486	570	260
Indian Basin D	1	588	706	244	111
Indian Basin D	2	1131	1357	367	168
Indian Basin E	1	299	359	160	73
Indian Basin E	2	6	7	14	6
Indian Basin State 32	1-Y	6401	7681	1,083	495
Indian Basin State 32	2	8512	10214	1,294	591
Indian Basin State 32	3	924	1109	322	147
Indian Basin State 32	4	4152	4982	775	354
Indian Federal Gas Com	1	74	89	0	0
Indian Federal Gas Com	2	620	744	0	0
Indian Hills State Com	1	345	414	275	125
Indian Hills State Com	3	62	74	94	43
Indian Hills State Com	4	72	86	103	47
Indian Hills State Com	5	136	163	153	70
Indian Hills State Com	6	99	119	126	57
Indian Hills State Com	8	41	49	72	33
Indian Hills Unit	1	5423	6508	930	425
Indian Hills Unit	6	411	493	185	85
Indian Hills Unit	8	1457	1748	451	206
Indian Hills Unit	9	1300	1560	420	192
Indian Hills Unit	10	6747	8096	1,066	487
Indian Hills Unit	11	1828	2194	520	238
Indian Hills Unit	12	1689	2027	495	226
Indian Hills Unit	17	2713	3256	603	276
Indian Hills Unit	18	2681	3217	599	274
Indian Hills Unit	19	5082	6098	893	408
Indian Hills Unit	20	2341	2809	550	251
Indian Hills Unit	21	10367	12440	1,395	638
Indian Hills Unit	22	10277	12332	1,532	700
Indian Hills Unit	24	2913	3496	630	288
Indian Hills Unit	25	5250	6300	894	408
Indian Hills Unit	26	1047	1256	0	0
Indian Hills Unit	28	3718	4462	720	329

NOTE: Test Gas Rate is highest monthly test three (3) most recent tests as of 9/30/02

NOTE: Test Gas Rate is under assumption that well is vented to atmosphere with artificial lift st

Percentage over test buffer = 20%

Pasquill - Gifford

Lease	Well	Gas Rate (MSCFD)	Gas Rate (MSCFD) w/Buffer	100 ppm	500 ppm
Indian Hills Unit	29	3574	4289	791	361
Indian Hills Unit	31	2118	2542	506	231
Indian Hills Unit	32	5952	7142	967	442
Indian Hills Unit	33	4185	5022	791	361
Indian Hills Unit	34	1405	1686	399	183
Indian Hills Unit	35	2150	2580	575	263
Indian Hills Unit	36	2184	2621	526	241
Indian Hills Unit	37 Y	2248	2698	526	240
Indian Hills Unit	39	1880	2256	470	215
Indian Hills Unit	40	6450	7740	1,016	464
Indian Hills Unit	42	2143	2572	510	233
Indian Hills Unit	43	3905	4686	836	382
Indian Hills Unit	45	143	172	96	44
Indian Hills Unit	50	996	1195	316	144
Indian Hills Unit Gas Com	3	3141	3769	651	297
Indian Hills Unit Gas Com	13	7159	8591	1,090	498
Indian Hills Unit Gas Com	14	5031	6037	874	399
Indian Hills Unit Gas Com	27	7492	8990	1,139	520
Indian Hills Unit Gas Com	47		0	0	0
J.C. Williamson	1	88	106	87	40
MOC Federal	1	156	187	167	76
MOC Federal	2	123	148	144	66
MOC Federal	3	212	254	202	93
MOC Federal	4	89	107	118	54
MOC Federal	5	159	191	169	77
MOC Federal	6	410	492	306	140
MOC Federal	7	24	29	52	24
MOC Federal	8	184	221	0	0
North Indian Basin Unit	1	1724	2069	499	228
North Indian Basin Unit	4	997	1196	354	162
North Indian Basin Unit	5	1584	1901	473	216
North Indian Basin Unit	7	56	67	88	40
North Indian Basin Unit	8	388	466	196	90
North Indian Basin Unit	9	1685	2022	492	225
North Indian Basin Unit	10	51	61	67	30
North Indian Basin Unit	11	2	2	9	4
North Indian Basin Unit	12	124	149	116	53
North Indian Basin Unit	13	287	344	245	112
North Indian Basin Unit	14	190	228	189	86
North Indian Basin Unit	15	259	311	230	105
North Indian Basin Unit	16	279	335	193	88
North Indian Basin Unit	17	175	210	144	66
North Indian Basin Unit	18	125	150	117	53
North Indian Basin Unit	19	163	196	138	63
North Indian Basin Unit	20	108	130	107	49
North Indian Basin Unit	21	0	0	0	0
North Indian Basin Unit	22	96	115	99	45
North Indian Basin Unit	23	44	53	76	35
North Indian Basin Unit	24	188	226	151	69
North Indian Basin Unit	25	218	262	166	76
North Indian Basin Unit	26	85	102	114	52
North Indian Basin Unit	27	1	1	6	3
North Indian Basin Unit	30	410	492	246	112
North Indian Basin Unit	31	1004	1205	356	162
North Indian Basin Unit	34	74	89	0	0
North Indian Basin Unit	36	1485	1782	454	208
North Indian Basin Unit Gas Com	3	1549	1859	565	258

✓ Nearest well to IH4 53

NOTE: Test Gas Rate is highest monthly test three (3) most recent tests as of 9/30/02

NOTE: Test Gas Rate is under assumption that well is vented to atmosphere with artificial lift st

Percentage over test buffer = 20%


Pasquill - Gifford

Lease	Well	Gas Rate (MSCFD)	Gas Rate (MSCFD) w/Buffer	100 ppm	500 ppm
North Indian Basin Unit Gas Com	32	1573	1888	478	219
Pronghorn Federal	1	28	34	43	19
Smith Federal	1	812	974	292	133
Smith Federal	2	243	292	137	63
Smith Federal	3	2366	2839	569	260
Stinking Draw	1	11	13	32	15
Stinking Draw	2	73	88	104	47
Stinking Draw	3	14	17	37	17
Stinking Draw	4	9	11	28	13

# EMERGENCY REPORTING GUIDELINES

## Southern Business Unit – Marathon Oil Company

April 2002

 Emergency Type	SBU		HOUSTON	CERT
	Asset Manager	Unit Manager	Sr. Vice President	Team Leader
	Report-Yes/No	Report-Yes/No	Report-Yes/No	Report-Yes/No
<b>Company/Contractor Injury or Illness</b>				
Fatality	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
LTA – w/Hospitalization: < 3	Yes - ASAP	Yes - ASAP	Yes - 24 hrs	No
LTA – w/Hospitalization: 3 or Greater	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
LTA - w/o Hospitalization	Yes - ASAP	Yes - ASAP	Yes - 24 hrs	No
OSHA Recordable	Yes - ASAP	Yes - 24 hrs	Yes - 24 hrs	No
Compensable	Yes - 8hrs	Yes - 24 hrs	No	No
Minor w/First Aid	Yes - 24 hrs	No	No	No
<b>Company Vehicle/Property Damage</b>				
Vehicle damage \$1,001 to \$5,000	Yes - ASAP	Yes - 8 hrs	No	No
Vehicle damage > \$5,000	Yes - ASAP	Yes - ASAP	No	No
MOC Property Damage - \$1,000 to \$4,999	Yes - 8 hrs	Yes - 24 hrs	No	No
MOC Property Damage - \$5,000 to \$250,000	Yes - ASAP	Yes - ASAP	No	No
MOC Property Damage - > \$250,000	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
3rd Party Damage > \$100,000	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
<b>Explosion/Fire</b>				
Company Controlled	Yes - 8 hrs	Yes - 24 hrs	No	No
Local Resource Controlled	Yes - ASAP	Yes - 8 hrs	Yes - 8 hrs	No
Uncontrolled by Local Resources	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
<b>Spills/Releases</b>				
Any Spill/Release - Sensitive Area	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
Any Spill/Release - Local Media	Yes - ASAP	Yes - ASAP	Yes - 8 hrs	No
Any Spill/Release - Regional/National Media	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
Any HC Spill > 500 bbls	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
Any HC Spill to Water > 50 bbls	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
Any HC Spill to Water < 50 bbls	Yes - ASAP	Yes - 8 hrs	No	No
Hazardous Mat Spill/Rel > 3 x Fed RQ	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
Hazardous Mat Spill/Rel < 3 x Fed RQ	Yes - ASAP	Yes - ASAP	No	No
Any Produced Fluid Spill > RQ	Yes - ASAP	Yes - ASAP	No	No
Any Designated Env. Incident (DEI)	Yes - ASAP	Yes - ASAP	No	No
Non-Reportable to any Agency	Yes - 12 hrs	No	No	No
<b>Evacuation, Well Control, Media Attention &amp; PSI</b>				
Potentially Serious Incident	Yes - 8 hrs	Yes - 24 hrs	No	No
Evacuation of Residences, Public Building or Blocked Public Road	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
Loss of Well Control	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
Natural Disasters w/major emergency	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
Significant Media Attention	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP
Terrorist Activities	Yes - ASAP	Yes - ASAP	Yes - ASAP	Yes - ASAP

**LTA:** Lost Time Accident; **RQ:** Reportable Quantity; **PSI:** Potentially Serious Incident

**MOC CERT Team Leader: 1-713-629-7118 (Available 24 hours - ask for CERT Team Leader)**

**Note:** CERT notifications to be made by SBU Manager or designee.