ADDENDUM II

EOG RESOURCES EMERGENCY RESPONSE PLAN

eog resources
pittsburgh division

PPC & Control/Disposal Plan

EOG Resources, Inc.
2039 South 6th Street
Indiana, PA 15701
724-349-7620

Version 2.0

PPC:

Responsible Officials:

Gary Smith, Vice President: 724-743-1102
John Johnston, Operations Manager: 724-255-1581
Len Ferguson, Production Superintendent: 412-309-3792
Todd Huey, Drilling Consultant: 724-840-7695
Nathan Wells, Safety & Environmental Rep.: 412-309-3792

Storage Facilities:

1. Three 500 bbl. frac tanks containing oil based drilling fluid
2. One 500 bbl. frac tank containing the polymer
3. One 500 bbl. frac tank used as a mixing tank
4. Two vertical1000 gal. tanks of base oil
5. One vertical 1000 gal. tank of CaCl H20
6. One 450 bbl. open top tank of drilling fluids and drill cuttings
7. One 100'x60'x10' earth lined pit of brine, fresh water and drill cuttings

Type of Operations:

This operation consists of the drilling of a horizontal natural gas well for exploration purposes.

Method of Drilling:

This well will be drilled using a synthetic, oil based drilling fluid using a fully automated HWD super single style drilling rig equipped with MWD downhole motors.

Pollution Prevention Measures:

For a list of chemicals and fluids on location see the Control & Disposal section of this plan and a copy of the drilling rig's MSDS book.

Any fluids that are released on location have a very low potential of impacting downstream water supplies for several reasons. First, the drilling location itself is sloped toward the earth pit. In the event of a discharge, this allows all fluids to flow into the pit where they can be contained and disposed of. Second, the quantity and nature of the substances on location are such that releases off the location would be highly unlikely. Also on location are a series of spill containment items such as booms,

diapers and absorbent material that can be deployed at the time of a release to ensure nothing leaves the location.

External Factors:

This location and rig are well prepared for any unexpected external factors. All EOG drilling locations are constructed so that heavy rains will not flood the location and so that nearby water ways, if any, will not overtake the location. High winds and storms also have less of an effect of this particular rig because of its low profile and overall layout. Third party intervention is limited as the rig is manned 24 hours a day, seven days a week. It is also equipped with security cameras that monitor locations that can't be seen from the rig control center.

Preventative Maintenance:

All containers and pits are constantly monitored for fluid level, and levels are logged daily for record keeping. Tanks are inspected on a per well basis as the tanks are being cleaned before transport to the next well.

Training:

Spill control training is administered by the drilling contractor to its drilling hands. Emergency spill response is first handled by the drilling consultant until other company personnel can arrive. Pre-spud safety meeting topics include what to do in the event of a release. Emergency phone numbers are also posted in several locations around the rig.

Pollution Incidence Response:

In the event that a release occurs that requires additional cleanup, EOG has contracted Weavertown Environmental Group:

Weavertown Environmental Group
2 Dorrington Road
Carnegie, Pennsylvania 15106
724-746-4850 or 800-746-4850
Fax: 724-746-9024

In the event additional water trucks are needed, Sallack Well Services in Punxsutawney can be reached 24 hours a day at 814-591-2254.

Reporting Procedure:

In the event of a release, the following state and federal agencies must be contacted:

PA DEP North Central Regional Office: 570-662-0830 or 24 hour emergency at 570-327-3636.

US EPA: 1-800-424-8802

Prior History:

EOG Resources, Inc. has not had an accidental release in the Pittsburgh Division.

PPC Schedule:

As of current, all aspects of the PPC plan have been implemented.

Control & Disposal:

The following section of this plan has been developed in accordance with Section 78.55 of the Rules and Regulations of the Oil and Gas Law for drilling activities in the state of Pennsylvania. The section covers all substances that are used, generated or disposed of in conjunction with well drilling activities and is current for the 2008 exploratory drilling schedule.

Top-hole Fluid:

If encountered, top-hole fluid or freshwater will be handled according to volumes encountered and well conditions at the time. Top-hole water will first be contained in an earth pit. After analysis, if the water meets the criteria for surface disposal (pH between 6 and 9; specific conductance less than 1000 uS/cm) it will be pumped over a well vegetated area providing it meets the following:

1. Does not directly discharge to water of the Commonwealth
2. Does not cause surface erosion at the location of discharge

If the water does not meet surface disposal criteria, it will be hauled by vacuum trucks to a DEP approved disposal facility. Anticipated volumes of top-hole water are difficult to calculate pre-drill as well conditions vary well to well. Earth pit sizes are designed to handle significant volumes and to allow time for trucks to arrive and haul water if large

amounts are encountered. Once pit level reaches ½ of total pit volume it will be hauled for disposal.

Brines:

Formation fluids encountered while drilling will first be contained in an earth pit. Anticipated maximum brine volumes are 200 bbls. Brines will be hauled by vacuum trucks to a DEP approved disposal facility. Once pit level reaches ½ of total pit volume it will be hauled for disposal.

Drilling Fluids:

For exploratory horizontal well drilling, synthetic oil-based drilling fluid will be utilized (MSDS available on location). Approximately 1000 bbls. will be on location, however, some applications may require slightly more or less. These drilling fluids will not be disposed of, but rather recycled. Using a series of shakers and filters, the drilling fluid will be separated from drill cuttings and transported to the next well location for future use. While on location the drilling fluid will be contained in 500 bbl. steel containment tanks.

Drill Cuttings:

On a typical horizontal well bore approximately 3500 cubic feet of drill cuttings will be produced. Cuttings are classified as material excavated from the well bore during the drilling process. Those produced while drilling on air will be blown into an earth pit. Cuttings produced while drilling fluids are in use (approx. 1300 c.f.) will first be removed from the drilling fluids and then put into the lined pit. When drilling is completed, the pit will be de-watered and the cuttings will be mixed with fly ash and solidified. The pit will then be encapsulated and buried.

Stimulation Fluid:

Depending on the completions design for each well, approximately 1.6 million gallons of stimulation fluid will be brought to and stored on location. Stimulation fluid is fresh water that is treated with chemicals hauled and maintained by the stimulation company, not the operator for use in well fracturing. During well fracturing, stimulation fluid is stored in 500 bbl. tanks placed around the outside of the location. Fluids are then transferred through a series of manifolds, blender truck and finally pump trucks before entering the well bore. A maximum of 45 tanks may be on location at any time.

After the completion of the well, stimulation fluid will return up the well bore and again be contained in the 500 bbl. tanks. The projected returns for stimulation fluid is 25%. A maximum of 2500 bbls. can accumulate before being trucked for disposal.

For all of the substances listed above, the amounts are per well.

Containment and Transport:

Substances produced on or brought to the drilling location will be contained in the following areas.

Earth Pit: a permitted 120'x 60' x 10' deep pit with 2:1 sloping sidewalls and a continuous 20 mil liner. The pit will be constructed on the cut slope side of the location to ensure the pit's structural integrity. With that in mind, the pit bottom will first be lined with mulch hay so as to prevent the liner from being punctured by rocks once a water load is on top of the liner. Once drilling operations are complete, the pit will be re-lined with another 20 mil liner before well completion operations begin.

Drilling Fluid Tank: a 450 bbl. steel constructed, skid mounted open top tank

Frac Tank: a 500 bbl. steel constructed, enclosed tank. Tanks are wheel mounted for tank transport only, not fluid transport.

EOG Resources, Inc. employs a variety of transport equipment for fluid hauling during the well construction process. Primarily, top-hole water, brine and stimulation fluid will be hauled off location in tandem or tri-axle vacuum trucks with 80 to 100 bbl. tanks. Those trucks are again used to bring fresh water onto location for drilling or completion operations. Prior to well completion, 160 bbl. tractor and trailer vacuum trucks are also used to haul fresh water. All trucks are PA DOT approved for the application and carry appropriate placards when necessary.

Monitoring and Inspection:

All tanks that are being filled with any of the above mentioned substances are monitored constantly by an onboard computer system and relayed directly to operations control room on the drilling rig as well as to other computers on location. In addition there is an hourly inspection done to each tank by an employee of the drilling company to ensure capacity is not being reached. Fluid levels in the pit are checked once daily, unless operations are so that require more regular monitoring. Structural integrity of the tanks is done on a per well basis after the tanks have been cleaned and transported to the next location.

Disposal Facilities:

EOG Resources, Inc. regularly uses the following fluid disposal facilities, but in the event of an emergency, fluids will be hauled to the nearest DEP approved treatment facility.

Pennsylvania Brine Treatment
5148 Hwy 322
Franklin, PA 16323

Pennsylvania Brine Treatment
296 Bells Mills Road
Josephine, PA 15750

Hart Resource Technologies
5035 Rte. 110
Creekside, PA 15732

Tunnelton Liquids Corp.
671 Hogue Drive
Saltsburg, PA 15681

----WARNING----

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Chemicals on Site

ABS-40 MATERIAL REQUIREMENTS

ABS-40 BASE OIL -	+/- 4,000 GALLONS
ABS – MUL -	275 GALLONS
BARITE –SACK -	880 – SXS
CALCIUM CHLORIDE -	40-80 SXS
CLAYTONE EM – VISCOSIFIER -	40 SXS
FM VIS LS -	40 SXS
FM WA II -	64 PAILS
LIME -	100 SXS

WEIGHTED SWEEP PRODUCTS

EXCAL CW 40200	400 SXS
SWEEP WATE	400 SXS

(these two products are coarse grind products for weighted sweeps)

LCM PRODUCTS – (seldom needed)

CAL-CARB MIX -	60 SXS
PERMASEAL -	50 SXS

LUBRICITY

GXM -	100SXS

MSDS

The following pages contain the MSDS information for the preceding list of chemicals.

Emergency Numbers

Ambulance Services:	570-297-2560	Troy Area Ambulance Service
Fire Department:	570-297-4884	Troy
State Police:	570-662-1130	– State Police Department (Mansfield)
Hospital:	570-297-2121	Troy Regional Health Center
Troy Borough Office:	570-297-2000	(Local Police Department)

Emergency Numbers

Ambulance Services:	814-781-1571	St Marys Area Ambulance Service
	814-637-5512	Bennett's Valley Ambulance Service
Fire Department:	814-781-1717	City of St Marys
	814-781-3457	Fire Alarm – 1st Asst Chief
State Police:	814-781-1315	City of St Marys – Police Department
Hospital:	814-788-8000	Elk Regional Health Center

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Revised: 6-1-09

PPC:

Responsible Officials:

Gary Smith, Vice President: 724-743-1102
Len Ferguson, Production Superintendent: 412-309-3792
Charley Kendrick, Frac Consultant: 210-288-5883
Barry Rodkey, Frac Consultant: 814-771-3259
Todd Huey, Drilling Consultant: 724-840-7695
Nathan Wells, Safety & Environmental Rep.: 412-309-3792

Storage Facilities:

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6. One 450 bbl. open top tank of drilling fluids and drill cuttings
7. One 100'x60'x10' earth lined pit of brine, fresh water and drill cuttings

Type of Operations:

This operation consists of the drilling and fracturing of a horizontal natural gas well for exploration purposes.

Method of Drilling:

This well will be drilled using a synthetic, oil based drilling fluid using a fully automated HWD super single style drilling rig equipped with MWD downhole motors.

Method of Fracturing:

This well will be fractured using hydraulic pressure from fresh water that is pumped downhole in a fully contained, closed loop system.

Pollution Prevention Measures:

For a list of chemicals and fluids on location see the Control & Disposal section of this plan and a copy of the drilling rig's MSDS book.

Any fluids that are released on location have a very low potential of impacting downstream water supplies for several reasons. First, the drilling location itself is sloped toward the earth pit. In the event of a discharge, this allows all fluids to flow into the pit where they can be contained and disposed of. Second, the quantity and nature of the substances on location are such that releases off the location would be highly unlikely. Also on location are a series of spill containment items such as booms, diapers and absorbent material that can be deployed at the time of a release to ensure nothing leaves the location.

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US EPA: 1-800-424-8802

Pennsylvania Fish and Boat Commission (Northcentral Regional Office): 814-359-5250

Pennsylvania Emergency Management Agency: 911

County EMA Office:

Bradford: 570-265-5022
Cameron: 814-486-9352
Clearfield: 814-765-5357
Elk: 814-776-5314
McKean: 814-887-5070 Ext. 13

Prior History:

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PPC Schedule:

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