

**CONSTRUCTION OF THE McCarville GU #3 Location
Supplemental STORM WATER MANAGEMENT PLAN (SWMP)**

18 January 2011

1.0 SITE AND PROJECT INFORMATION

Project Name: McCarville GU A#3 Well Pad construction

Project Location: The project is located on private lands located in Sec 14;
T33N, R09W SUL La Plata County, Colorado N.M.P.M.
GU A #3: 37°06'17.311" N 107°48'02.925" W

Owner Name and Address: BP America Production Company
380 Airport Road
Durango, CO 81301

Facility Contact and
Telephone Number: Dan Fauth
(970) 247-6800

Project Specifics

a. Description of the
Construction Activity: Construction of a gravel pad and associated access road for a
natural gas well on a 300' x 195' level well pad.

b. Sequence of Major
Construction Activities: . Access Road Construction
. Well Pad Construction
. Well Drilling and Completion
. Interim Pad Reclamation

c. Estimated Total Area
of Site disturbance ~1.29 Acres

d_a. Estimated Runoff Coef-
ficient, Before and After

Resource: Pinon Juniper	Before: 0.40	After 0.40/0.75
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d_b. Existing Soil Data:

Soil:	Area:	Erosion:
Bayfield Silti Clay Loam	100% of Pad	High

e. Description of Existing
Vegetation and Estimate of
Percent Aerial Cover:

Pinon Juniper~80%

- f. Description of Potential Pollution Sources: 1) Diesel fuel and gasoline for equipment and vehicles; 2) Lubricating oil 3) Drilling mud (bentonite -based viscous fluid); 4) Casing cement.
- g. Description of Anticipated Non-storm water Discharges: None Anticipated
- h. Name of Receiving Water and Type of Outfalls: Irrigation ditches via overland flow

2.0 SITE MAPS

The attached maps (Exhibit C) illustrate the approximate location of the well pad. Construction activities and areas of cut and fill and soil disturbance are limited to the area surveyed for the location. The maps illustrate the features required by the CDPS General Permit for field wide construction activities on fee lands under the field wide permit. There are no point-source outfall structures; runoff enters the receiving watersheds and water bodies by overland flow.

3.0 BEST MANAGEMENT PRACTICES FOR STORMWATER POLLUTION PREVENTION

The Best Management Practices (BMP) to be employed during the construction of this well site and project are outlined in the field wide Storm Water Management Plan. Specific BMPs to be implemented during the proposed project are described in Exhibit B.

4.0 INSPECTION AND MAINTENANCE

Inspections of the project site and maintenance of BMPs installed shall be conducted in accordance with the CDPHE CDPS permit and the field wide plan.

5.0 TERMINATION

At this time no formal permit termination is necessary as the PHASE II rule under the CDPHE is covered under a field wide permit. Upon final stabilization of the site covered under this supplemental plan, the plan and its associated inspections should be kept for at least three years following the date of final stabilization.

EXHIBIT A
Implementation Responsibility Transfer Log

By signing below, I certify under penalty of law that I understand and am responsible for the maintenance and implementation of the terms and conditions of the general Colorado Discharge Pollutant System (CDPS) permit and measures identified by the above site specific Storm Water Management Plan (SWMP) that may authorize the storm water discharges associated with my activities from the construction site identified in Section 6.0 of this site specific SWMP.

Site Responsibilities:

Name and Title (type or print): _____

Signature: _____

Date: _____

By signing below, I certify under penalty of law that I understand and am responsible for the maintenance and implementation of the terms and conditions of the general Colorado Discharge Pollutant System (CDPS) permit and measures identified by the above site specific Storm Water Management Plan (SWMP) that may authorize the storm water discharges associated with my activities from the construction site identified in Section 6.0 of this site specific SWMP.

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Signature: _____

Date: _____

EXHIBIT B
Detailed BMPs & BMP Alterations Log

BMPs

Identified Implementation Locations:

1. Drilling Pad Construction (See attached Figure 1)

BMPs: 2, 14, 24 & 40

- Implement structural best management practices (i.e. wattles) where shown on maps prior to ground disturbing activities.
- Establish sub-base to route surface water as sheet flow off the north end of location.
- Establish base lift gravel to accommodate level drilling operations and stabilize pad surface.
- Store Top soil as shown on retain with wattles as shown.

2. Drilling and Completion Operations

BMPs: Spill and Contaminated Soil Management

- Fuel, Mud Products, drill cutting spoils, Trailer Septic Tanks, etc. that may contribute to storm water run-off shall be maintained within the graveled well pad area and contained in proper containers and/or sheltered from exposure.
- Any equipment maintenance shall be avoided during drilling and completion—in the event maintenance must occur, it shall be conducted within the graveled pad area, fluids shall be captured within spill proof containers, and absorbent mats shall be utilized beneath maintenance operations.
- Contaminated soil should be collected and disposed of at an appropriate soil farm or similar facility.

3. Interim Pad Reclaim (See attached Figure 2)

BMPs: 2, 24, & 34

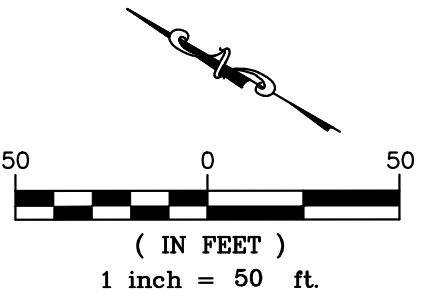
- Reclaim north, south, and east cut/fill slopes to 3:1 or less.
- Trench and bury remaining drill cuttings when material is 95-100% dry.
- Spread top-soil over fill slopes & blend to existing grade areas where sloping meets pre-disturbance grade.
- Repair, replace, or install pad wattles if necessary or as shown.

4. Re-seeding & BMP Removal

- Re-seed as soon as possible following reclamation of pad-provided season and weather permits and cover with 2 tons/acre of weed free straw mulch. Tackify or crimp the mulch to the exposed soil surfaces. Swale at southwest corner shall be mulched with a bonded fiber matrix.
 - Cut/Fill Slopes & Top-Soil Storage Area.
- Seed mix should implement an annual cover or triticale.
 - Seed Mixture = G-P
- Upon 70% Re-Vegetation across site, remove wattles and any other temporary erosion and sediment control BMP.

EXHIBIT C
Maps

DRILL PAD LAYOUT
CLEARING AND GRADING
FIGURE 1



Legend


	Limits of Disturbance		Flow Direction		Top Soil Storage		SCL		Sediment Control Log
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Name: McCarville GU A #3		
Location:		Township and Range SEC 14; T 33N, R09W
FIELD TECH: JPJ	FIELD DATE: 1/28/11	
CAD TECH: MJW	CAD DATE: 2/15/11	
PRYMORYS ENVIROMENTAL CONSULTING INC. PO BOX 4470 DURANGO, CO 81302		

STORM WATER CONTROL MAP
INTERIM RECLAIM
FIGURE 2



Legend
Limits of Disturbance
Flow Direction
Top Soil Storage
SCL Sediment Control Log
MU PS Permanent Seeding and Mulching 2 tons per acre

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