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Proposed BMP's

119

2A : 2582420

APPENDIX JX 06 June 2008
ELDRIDGE 25-02 NO 2 WELL PAD
SUPPLEMENTAL STORM WATER MANAGEMENT PLAN (SWMP)
 for small construction activities on private lands

1.0 SITE AND PROJECT INFORMATION

Ignacio-Blanco
 CDPHE Field Wide Permit #: COR-038395

Location: Eldridge 25-02 No 2 Well Pad

Project Location: The project is located on private lands south of the SUIR.
 Sec. 25U; T33N, R11W N.M.P.M La Plata County, Colorado
 37°04'29.17" -107°59'41.30"

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 well pad for a natural gas well on a 280' x 195' level well pad. Installation of Pipeline and construction of access within a 50 ft wide ROW for 1,183.6 ft.
- b. Sequence of Major Construction Activities: . Access and Pipeline Construction
 . Drilling Pad Construction
 . Well Drilling and Completion
 . Interim Pad Reclamation
- c. Estimated Total Area of Site disturbance ~2.6 acres
- d_a. Estimated Runoff Coefficient, Before and After
- | Resource: | Before: | After: |
|----------------------------|---------|-----------|
| Level Pad Area | 0.65 | 0.65 |
| Sagebrush Shrubland (Fair) | 0.40 | 0.35/0.60 |
- d_b. Existing Soil Data:

Soil:	Area:	Erosion:
Sili clay loam	West ½ of Pad Area and Access	Moderate

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Panitchen-Dominguez Variant silty clay loams	East ½ of Pad Area	High
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- e. Description of Existing Vegetation and Estimate of Percent Ground Cover: Sagebrush Shrubland—cover ~60-70%.
- 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: Unknown ephemeral via Overland Flow

2.0 SITE MAPS

The attached maps (Exhibit B) 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 pipeline project are outlined in the field wide Storm Water Management Plan. Specific BMPs to be implemented during the proposed project are described in Exhibit A.

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. Pipeline and Access Construction (See attached Figure 1)

BMPs: 2, 9, 14, 24 & 40

- Implement wattles where shown on map.
- Establish borrow ditch along up-gradient edge of access. Carry borrow water to installed CMP.
- Implement wattles around inlet of culvert and in a horseshoe fashion around its outlet.
- Establish non-erodible road base gravel to stabilize access surface.

2. Drilling Pad Construction (See attached Figure 1)

BMPs: 2, 14, 24 & 40

- Implement wattles where shown on map.
- Salvage viable top-soil and spoil as much as possible, store near the west edge of pad. Maintain top-soil separate from fill spoils for use in reclamation.
- Establish sub-base to route surface water to the south—daylight to natural grade.
- Establish base lift gravel to accommodate level drilling operations and stabilize pad surface.

3. Drilling and Completion Operations (See attached Figure 1)

BMPs: Spill and Contaminated Soil Management

- Fuel, Mud Products, 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.

4. Interim Pad Reclaim (See attached Figure 2)

BMPs: 2, 24, & 34

- Reclaim south fill slope to 3:1 or less and utilize excess material in the north and west cut slope. Bring to a 3:1 or less grade.
- Spread stored top-soil over cut/fill slopes & blend to existing grade areas where sloping meets pre-disturbance grade.
- Repair or replace drilling pad wattles if necessary.

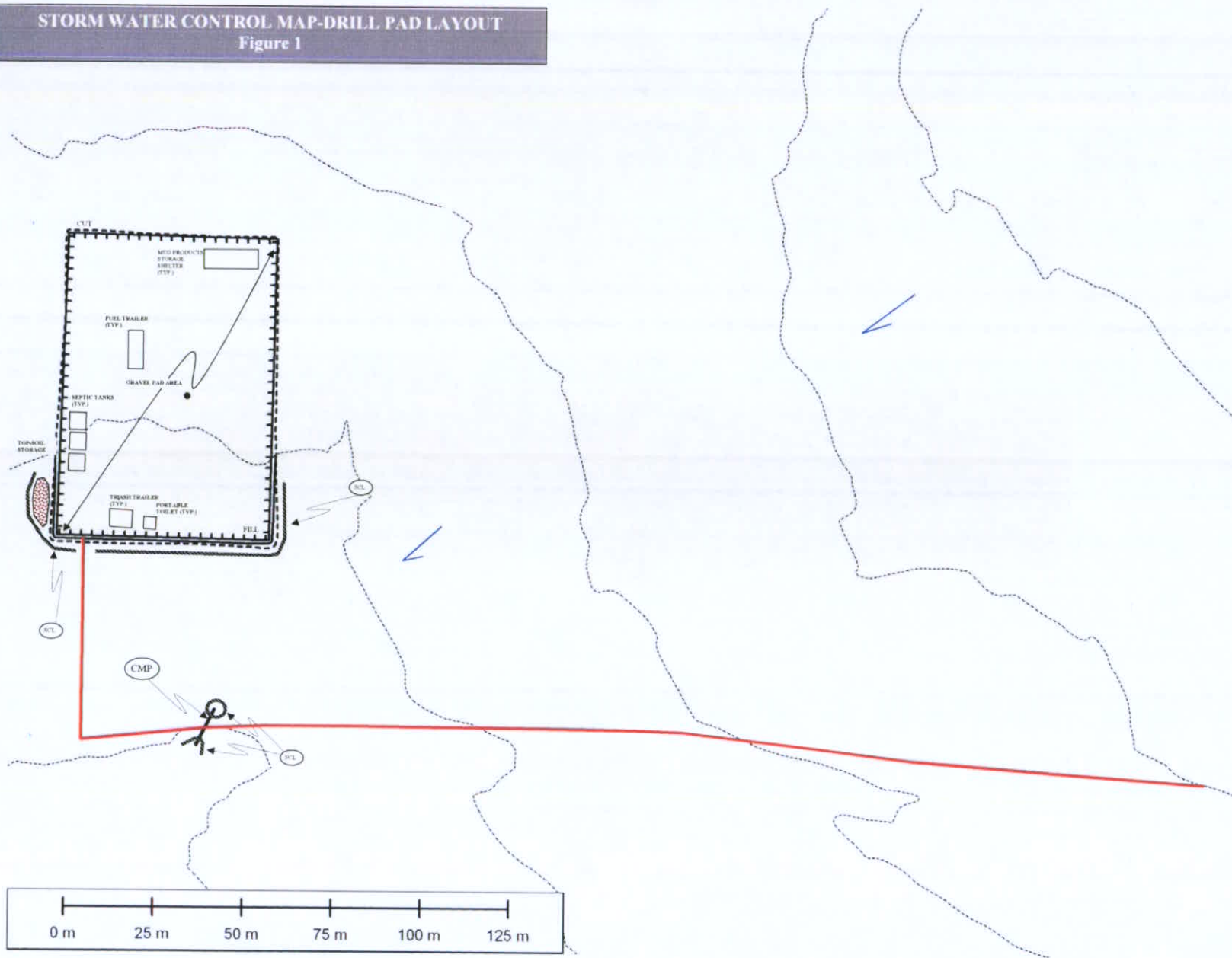
5. Re-seeding & BMP Removal

- 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.
 - Cut/Fill Slopes & Top-Soil Storage Area.
- Seed mix should implement an annual cover or triticale.
- Upon 70% Re-Vegetation across site, remove wattles and any other temporary erosion and sediment control BMP.

EXHIBIT C
Maps

STORM WATER CONTROL MAP-DRILL PAD LAYOUT

Figure 1



STORM WATER CONTROL MAP-INTERIM RECLAIM

Figure 2

