

**FORM  
INSP**Rev  
05/11**State of Colorado  
Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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Inspection Date:

12/08/2011

Document Number:

661400038

Overall Inspection:

Satisfactory**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Tracking Type	Inspector Name:
	<u>301531</u>	<u>335044</u>		<u>KELLERBY, SHAUN</u>

**Operator Information:**OGCC Operator Number: 96850 Name of Operator: WILLIAMS PRODUCTION RMT COMPANY LLCAddress: 1001 17TH STREET - SUITE #1200City: DENVER State: CO Zip: 80202**Contact Information:**

Contact Name	Phone	Email	Comment
Moss, Brad	(970) 285-9377/ (719) 429-3529	Brad.Moss@Williams.com	Production foreman

**Compliance Summary:**QtrQtr: SWSE Sec: 6 Twp: 7S Range: 93W**Inspector Comment:****Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	
211321	WELL	PR	12/25/1996		045-07081	FEDERAL RU 34-6	<input checked="" type="checkbox"/>
301529	WELL	PR	02/28/2011	LO	045-18171	FEDERAL RU 32-6	<input checked="" type="checkbox"/>
301530	WELL	PR	08/16/2011	LO	045-18172	FEDERAL RU 443-6	<input checked="" type="checkbox"/>
301531	WELL	PR	03/31/2011	LO	045-18173	FEDERAL RU 344-6	<input checked="" type="checkbox"/>
301532	WELL	PR	03/31/2011	LO	045-18174	FEDERAL RU 333-6	<input checked="" type="checkbox"/>
415153	PIT	CL	04/11/2011		-	RU 34-6	<input type="checkbox"/>

**Equipment:****Location Inventory**

Special Purpose Pits: <u>1</u>	Drilling Pits: <u>      </u>	Wells: <u>5</u>	Production Pits: <u>      </u>
Condensate Tanks: <u>3</u>	Water Tanks: <u>3</u>	Separators: <u>5</u>	Electric Motors: <u>      </u>
Gas or Diesel Mortors: <u>      </u>	Cavity Pumps: <u>      </u>	LACT Unit: <u>      </u>	Pump Jacks: <u>      </u>
Electric Generators: <u>      </u>	Gas Pipeline: <u>1</u>	Oil Pipeline: <u>      </u>	Water Pipeline: <u>      </u>
Gas Compressors: <u>      </u>	VOC Combustor: <u>      </u>	Oil Tanks: <u>      </u>	Dehydrator Units: <u>      </u>
Multi-Well Pits: <u>      </u>	Pigging Station: <u>      </u>	Flare: <u>      </u>	Fuel Tanks: <u>      </u>

**Location****Signs/Marker:**

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
BATTERY	Satisfactory	at separator units		
WELLHEAD	Satisfactory			
CONTAINERS	Satisfactory	DOT labels		

Inspector Name: KELLERBY, SHAUN

TANK LABELS/PLACARDS	Satisfactory			
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Emergency Contact Number: (S/U/V) Satisfactory Corrective Date: \_\_\_\_\_

Comment: \_\_\_\_\_

Corrective Action: \_\_\_\_\_

**Spills:**

Type	Area	Volume	Corrective action	CA Date
Other	WELLHEAD	<= 5 bbls	Clean all stained soil	01/13/2012

☐ Multiple Spills and Releases?

**Fencing/:**

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
TANK BATTERY	Satisfactory			
WELLHEAD	Satisfactory			
SEPARATOR	Satisfactory			

**Equipment:**

Type	#	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
Gas Meter Run	1	Satisfactory			
Horizontal Heated Separator	5	Satisfactory			
Emission Control Device	1	Satisfactory			

**Tanks/Berms:** ☐ New Tank Tank ID: \_\_\_\_\_

Contents	#	Capacity	Type	SE GPS
PRODUCED WATER	2	300 BBLS	STEEL AST	,

S/U/V: Satisfactory Comment: \_\_\_\_\_

Corrective Action: \_\_\_\_\_ Corrective Date: \_\_\_\_\_

**Paint**

Condition	Adequate
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Other (Content) \_\_\_\_\_

Other (Capacity) \_\_\_\_\_

Other (Type) \_\_\_\_\_

**Berms**

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance	Comment
Metal	Adequate			Adequate	Lined

Corrective Action: \_\_\_\_\_ Corrective Date: \_\_\_\_\_

**Tanks/Berms:** ☐ New Tank Tank ID: 114978

Contents	#	Capacity	Type	SE GPS
CONDENSATE	3	300 BBLS	STEEL AST	38.671150,-102.062844
S/U/V:		Comment:		

Corrective Action:		Corrective Date:	
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**Paint**

Condition	
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Other (Content) \_\_\_\_\_

Other (Capacity) \_\_\_\_\_

Other (Type) \_\_\_\_\_

**Berms**

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance	Comment

Corrective Action		Corrective Date	
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<b>Venting:</b>	
Yes/No	Comment
NO	Braden access ok

<b>Flaring:</b>				
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date

**Predrill**

Location ID: 335044

**Site Preparation:**

Lease Road Adeq.: \_\_\_\_\_ Pads: \_\_\_\_\_ Soil Stockpile: \_\_\_\_\_

Corrective Action: \_\_\_\_\_ Date: \_\_\_\_\_ CDP Num.: \_\_\_\_\_

**Form 2A COAs:****Wildlife BMPs:**

BMP Type	Comment
PROPOSED BMPs	<ul style="list-style-type: none"> <li>• Gate access roads where necessary to minimize /control access to "crucial"</li> <li>• Install automated emergency response systems (e.g., high tank alarms, emergency shut- down systems, etc.).</li> <li>• Implement fugitive dust control program</li> <li>• Avoid direct discharge of pipeline hydrostatic test water to any reservoir, lake, wetland, or natural perennial or seasonally flowing stream or river.</li> <li>• Locate above -ground facilities to minimize the visual effect (e.g., low profile equipment, appropriate paint color, vegetation screening in wooded areas, etc.).</li> <li>• Skim and eliminate oil from produced water ponds and fluid pits at a rate sufficient to prevent oiling of birds or other wildlife that could gain access to the pit.</li> <li>• Apply an aggressive, integrated, noxious and invasive weed management plan.</li> </ul> <p>Utilize an adaptive management strategy that permits effective responses to monitored findings</p>

and reflects local site and geologic conditions

- Map the occurrence of existing weed infestations prior to development to effectively monitor and target areas that will likely become issues after development.
- Evaluate the utility of soil amendment application or consider importing topsoil to achieve effective reclamation.
- Use locally adapted seed whenever available and approved by landowner.
- Use appropriately diverse reclamation seed mixes that mirror an appropriate reference area for the site being reclaimed where approved by landowner.
- Conduct seeding in a manner that ensures that seedbed preparation and planting techniques are targeted toward the varied needs of grasses, forbs and shrubs (e.g., seed forbs and shrubs separately from grasses, broadcast big sagebrush but drill

grasses, etc.)

- Emphasize bunchgrass over sod - forming grasses in seed mixes in order to provide more effective wildlife cover and to facilitate forb and shrub establishment.
  - Seed during appropriate season to increase likelihood of reclamation success
  - Do not include aggressive, non - native grasses in reclamation seed mixes
  - Choose reference areas as goals for reclamation that have high wildlife value, with attributes such a diverse and productive understory of vegetation, productive and palatable shrubs, and a high prevalence of native species.
  - Establish vegetation with total perennial non - invasive plant cover of at least eighty (80) percent of pre- disturbance or reference area levels.
  - Establish vegetation with plant diversity of non - invasive species which is at least half that of pre- disturbance or reference area levels. Quantify diversity of vegetation using a metric that considers only species with at least 3 percent
- relative plant cover.
- Establish permanent and monumented photo points and vegetation measurement plots or transects; monitor at least annually until plant cover, composition, and diversity standards have been met.
  - Observe and maintain a performance standard for reclamation success characterized by the establishment of a self -sustaining, vigorous, diverse, locally appropriate plant community on the site, with a density sufficient to control erosion and non - native plant invasion and diversity sufficient to allow to

plant community development.

- Use early and effective reclamation techniques, including interim reclamation to accelerate return of disturbed areas for use by wildlife
- Remove all unnecessary infrastructure during the production phase.
- Reclaim reserve pits as quickly as practical after drilling and ensure that pit contents do not contaminate soil.
- Remediate hydrocarbon spills on disturbed areas prior to reclamation.
- Complete final reclamation activities so that seeding occurs during the first optimal season following plugging and abandonment of oil and gas wells.
- Perform interim reclamation to final reclamation species composition and establishment standards.

	<ul style="list-style-type: none"> <li>• Perform interim reclamation on all disturbed areas not needed for active support of production operations</li> <li>• Remove and properly dispose of degraded silt fencing and erosion control materials after their utility has expired</li> <li>• Remove and properly dispose of pit contents where contamination of surface water, groundwater, or soil by pit contents cannot be effectively prevented</li> <li>• Apply certified weed free mulch and crimp or tacify to remain in place to reclaim areas for seed preservation and moisture retention</li> <li>• Control weeds in areas surrounding reclamation areas in order to reduce weed competition</li> <li>• Educate employees and contractors about weed issues</li> <li>• Where possible, fence livestock and /or wildlife out of newly reclaimed areas until reclamation standards have been met and plants are capable of sustaining herbivory</li> <li>• Conduct necessary reclamation and invasive plant monitoring.</li> <li>• Census and assess the utilization of the reclaimed areas by the target species</li> <li>• Maintain pre and post development site inspection records and monitor operations for compliance</li> <li>• Utilize GIS technologies to assess the extent of disturbance and document the reclamation progression and the footprint of disturbances</li> <li>• Identify native species for which commercial seed sources are not available. Provide support to contractors for developing cultivation and seed production techniques for needed species</li> <li>• Conduct reclamation field trials to match seed mixes, soil preparation techniques, and planting methods to local conditions.</li> </ul> <p>Site Specific BMPs:</p> <p>Planning</p> <ul style="list-style-type: none"> <li>• Share /consolidate corridors for pipeline ROWS to the maximum extent possible.</li> <li>• Maximize the utility of surface facilities by developing multiple wells from a single pad (directional drilling), and by co- locating multipurpose facilities (for</li> </ul>
PROPOSED BMPs	<p>example, well pads and compressors) to avoid unnecessary habitat fragmentation and disturbance of additional geographic areas.</p> <ul style="list-style-type: none"> <li>• Minimize newly planned activities and operations within 300 feet of the or many high water mark of any reservoir, lake, wetland, or natural perennial or seasonally flowing stream or river.</li> <li>• Locate roads outside of drainages where possible and outside of riparian habitat.</li> <li>• Avoid constructing any road segment in the channel of an intermittent or perennial stream.</li> <li>• Avoid new surface disturbance and placing new facilities in key wildlife habitats in consultation with CDOW.</li> <li>• Minimize the number, length, and footprint of oil and gas development roads;</li> </ul>

- Use existing roads where possible
- Combine utility infrastructure (gas, electric, and water) planning with roadway planning to avoid separate utility corridors
- Combine and share roads to minimize habitat fragmentation
- Where possible, consolidate pipeline and existing roadways, or roadways that are planned for development
- Place roads to avoid obstructions to migratory routes for wildlife, and to avoid displacement of wildlife from public to private lands.
- Design roads with visual and auditory buffers or screens (e.g., topographic barriers, vegetation, and distance).
- Accelerate development under a "clustered- development concept" on a site - specific basis where Williams has a 100% mineral interest or control of mineral development
- Maximize the use of directional drilling to minimize habitat loss /fragmentation
- Maximize use of long -term centralized tank batteries to minimize traffic
- Maximize use of remote completion/frac operations to minimize traffic
- Maximize use of remote telemetry for well monitoring to minimize traffic
- Phase and concentrate development activities, so that large areas of undisturbed habitat for wildlife remain.
- Maintain undeveloped areas within development boundaries sufficient to allow wildlife to persist within development boundaries during all phases of construction, drilling, and production.
- Minimize the duration of development and avoid repeated or chronic disturbance of developed areas. Complete all anticipated drilling within a phased, concentrated, development area during a single, uninterrupted time period.
- Restrict oil and gas activities as practical during critical seasonal periods
- Implement self imposed timing limitations to protect species and /or habitat

#### Construction

- Close and reclaim roads not necessary for development, including removing all bridges and culverts and recontouring/reclaiming all stream crossings.
- Structures for perennial or intermittent stream channel crossings should be constructed using appropriately sized bridges or culverts
- Design road crossings of streams to allow fish passage at all flows and minimize the generation of sediment.
- Design road crossings of streams at right angles to all riparian corridors and streams to minimize the area of disturbance to the extent possible.
- Construct retention basins and ponds that benefit wildlife

#### Drilling/Completions

- Install and maintain adequate measures to exclude all types of wildlife (e.g., big game, birds, and small rodents) from all fluid pits (e.g., fencing, netting, and other appropriate exclusion

measures).

- Conduct well completions with drilling operations to limit the number of rig moves and traffic.

#### Production/Reclamation

- Restore both form and function of impacted wetlands and riparian areas and mitigate erosion.
- Remove well pad and road surface materials that are incompatible with post - production land use and re- vegetation requirements
- Use only certified weed -free native seed in seed mixes, except for non- native plants that benefit wildlife
- Install exclusionary devices to prevent bird and other wildlife access to equipment stacks, vents and openings.
- Reduce visits to well -sites through remote monitoring (i.e. SCADA) and the use of multi - function contractors.
- Avoid dust suppression activities within 300 feet of the ordinary high water mark of any reservoir, lake, wetland, or natural perennial or seasonally flowing stream or river where possible.
- Bore pipelines that cross perennial streams
- Install and use locked gates or other means to prevent unauthorized vehicular travel on roads and facility rights -of -way.

#### PROPOSED BMPs

RU 34 -6

In addition to compliance with General Operating Requirements required under-6 rule 1203 to be applied in Sensitive Wildlife Habitat and Restricted Surface Occupancy areas or COGCC 1204 to be applied statewide or in areas noted in the Rule, Williams

will employ the following BMPs either field wide or at the specific location for which this Form 2A is being submitted.

#### Field Wide BMPs:

##### General

- Prepare plans and studies to support wildlife conservation and protection
- Contribute to and participate in wildlife studies and research efforts related to oil and gas activity's relationship to wildlife
- Treat/control noxious weeds /plants including Tamarisk
- Assist CDOW in obtaining access to private lands for wildlife research and conservation
- Focus BMPs on critical wildlife seclusion and "crucial habitats"
- Contribute to organizations that acquire /manage habitat
- Continue to Support Operation Game Thief

- Continue to support CDOW sportsman's programs
- Participate in wildlife seminars and conferences (e.g. AFWA)
- Focus Ranch and Property Management (Williams' owned /managed properties) on wildlife resources
- Identify conservation easement opportunities on Williams- owned /managed properties
- Acquire water rights and irrigate key habitat areas
- Restrict and /or manage grazing to benefit wildlife
- Fence and restrict activities in locations that provide high value habitat
- Construct habitat improvement projects as practical
- Enforce policies to protect wildlife (e.g., no poaching, no firearms, no dogs on location, no feeding of wildlife, etc.).
- Inventory, monitor and remove obsolete, degraded, or hazardous fencing on Williams owned property
- Support research to test the effectiveness of specific Best Management Practices

#### Planning

- Conduct wildlife surveys to determine presence of game /non -game species /habitat
- Identify and Protect "crucial habitats"
- Site access roads, pads and facilities in locations that minimize habitat impacts
- Identify private and Federal land seclusion areas where drilling will be voluntarily deferred in critical seasonal habitats
- Identify and protect migration corridors
- Minimize well pad density to the extent possible
- Minimize the number, size and distribution of well pads and locate pads along existing roads where possible.
- Cluster well pads in the least environmentally sensitive areas.
- Plan pipelines routes ahead of time to avoid field fitting and reduce excessive ROW widths and reclamation.
- Adequately size infrastructure and facilities to accommodate both current and future gas production.

#### Construction

- Schedule necessary construction in stream courses to avoid critical spawning times.
- Surface roads to ensure that the anticipated volume of traffic and the weight and speed of vehicles using the road do not cause environmental damage, including generation of fugitive dust and contribution of sediment to downstream areas.
- Protect culvert inlets from erosion and sedimentation and install energy dissipation structures at



outfalls

- Use the minimum right -of -way width and vegetation mats where pipelines cross riparian areas and streams wherever possible
- Construct fluid pit fences and nets that are capable of withstanding animal pressure and environmental conditions and that are appropriately sized for the wildlife encountered.
- Install impermeable barriers beneath fluid pits to protect groundwater, riparian areas and wetlands.
- Salvage topsoil from all road construction and other rights -of -way and re -apply during interim and final reclamation.
- Strip and segregate topsoil prior to construction. Appropriately configure topsoil piles and immediately seed to control erosion, prevent weed establishment and maintain soil microbial activity

Drilling/Completions

- Continue application of BMPs to prevent wildlife from entering pits including fencing and netting where appropriate
- Limit days/hours operations where practical to minimize disturbance and traffic
- Promptly report spills that affect wildlife to the CDOW.
- Store and stage emergency spill response equipment at strategic locations so that it is available to expedite effective spill response.
- Limit parking to already disturbed areas that have not yet been reclaimed
- Screen water suction hoses to exclude fish.
- Reduce noise by using effective sound dampening devices or techniques (e.g., hospital -grade mufflers, equipment housing, insulation, installation of sound barriers, earthen berms, vegetative buffers, etc.).

Production/Reclamation

**Stormwater:**

**Comment:** \_\_\_\_\_

**Staking:**

**On Site Inspection (305):**

**Surface Owner Contact Information:**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

**Operator Rep. Contact Information:**

Landman Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Date Onsite Request Received: \_\_\_\_\_

Date of Rule 306 Consultation: \_\_\_\_\_

Request LGD Attendance: \_\_\_\_\_

Inspector Name: KELLERBY, SHAUN

LGD Contact Information:

Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_ Agreed to Attend: \_\_\_\_\_

Summary of Landowner Issues:

Summary of Operator Response to Landowner Issues:

Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:

**Well**

Facility ID: 211321 API Number: 045-07081 Status: PR Insp. Status: PR

Facility ID: 301529 API Number: 045-18171 Status: PR Insp. Status: PR

Facility ID: 301530 API Number: 045-18172 Status: PR Insp. Status: PR

Facility ID: 301531 API Number: 045-18173 Status: PR Insp. Status: PR

Facility ID: 301532 API Number: 045-18174 Status: PR Insp. Status: PR

**Environmental**

**Spills/Releases:**

Type of Spill: \_\_\_\_\_ Description: \_\_\_\_\_ Estimated Spill Volume: \_\_\_\_\_

Comment: \_\_\_\_\_

Corrective Action: \_\_\_\_\_ Date: \_\_\_\_\_

Reportable: \_\_\_\_\_ GPS: Lat \_\_\_\_\_ Long \_\_\_\_\_

Proximity to Surface Water: \_\_\_\_\_ Depth to Ground Water: \_\_\_\_\_

**Water Well:**

DWR Receipt Num: \_\_\_\_\_ Owner Name: \_\_\_\_\_ GPS : \_\_\_\_\_ Lat \_\_\_\_\_ Long \_\_\_\_\_

**Field Parameters:**

Sample Location: \_\_\_\_\_

Emission Control Burner (ECB): \_\_\_\_\_

Comment: \_\_\_\_\_

Pilot: \_\_\_\_\_ Wildlife Protection Devices (fired vessels): \_\_\_\_\_

**Reclamation - Storm Water - Pit**

**Interim Reclamation:**

Date Interim Reclamation Started: \_\_\_\_\_ Date Interim Reclamation Completed: \_\_\_\_\_

Land Use: RANGELAND

Comment: \_\_\_\_\_

1003a. Debris removed? \_\_\_\_\_ CM \_\_\_\_\_

CA \_\_\_\_\_ CA Date \_\_\_\_\_  
 Waste Material Onsite? \_\_\_\_\_ CM \_\_\_\_\_  
 CA \_\_\_\_\_ CA Date \_\_\_\_\_  
 Unused or unneeded equipment onsite? \_\_\_\_\_ CM \_\_\_\_\_  
 CA \_\_\_\_\_ CA Date \_\_\_\_\_  
 Pit, cellars, rat holes and other bores closed? \_\_\_\_\_ CM \_\_\_\_\_  
 CA \_\_\_\_\_ CA Date \_\_\_\_\_  
 Guy line anchors removed? \_\_\_\_\_ CM \_\_\_\_\_  
 CA \_\_\_\_\_ CA Date \_\_\_\_\_  
 Guy line anchors marked? \_\_\_\_\_ CM \_\_\_\_\_  
 CA \_\_\_\_\_ CA Date \_\_\_\_\_

1003b. Area no longer in use? \_\_\_\_\_ Production areas stabilized ? \_\_\_\_\_  
 1003c. Compacted areas have been cross ripped? \_\_\_\_\_  
 1003d. Drilling pit closed? \_\_\_\_\_ Subsidence over on drill pit? \_\_\_\_\_  
 Cuttings management: \_\_\_\_\_  
 1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? \_\_\_\_\_  
 Production areas have been stabilized? \_\_\_\_\_ Segregated soils have been replaced? \_\_\_\_\_

**RESTORATION AND REVEGETATION**Cropland

Top soil replaced \_\_\_\_\_ Recontoured \_\_\_\_\_ Perennial forage re-established \_\_\_\_\_

Non-Cropland

Top soil replaced \_\_\_\_\_ Recontoured \_\_\_\_\_ 80% Revegetation \_\_\_\_\_

1003 f. Weeds Noxious weeds? \_\_\_\_\_

Comment: \_\_\_\_\_

Overall Interim Reclamation \_\_\_\_\_

**Final Reclamation/ Abandoned Location:**

Date Final Reclamation Started: \_\_\_\_\_ Date Final Reclamation Completed: \_\_\_\_\_

Final Land Use: RANGELAND \_\_\_\_\_

Reminder: \_\_\_\_\_

Comment: \_\_\_\_\_

Well plugged \_\_\_\_\_ Pit mouse/rat holes, cellars backfilled \_\_\_\_\_

Debris removed \_\_\_\_\_ No disturbance /Location never built \_\_\_\_\_

Access Roads Regraded \_\_\_\_\_ Contoured \_\_\_\_\_ Culverts removed \_\_\_\_\_

Gravel removed \_\_\_\_\_

Location and associated production facilities reclaimed \_\_\_\_\_ Locations, facilities, roads, recontoured \_\_\_\_\_

Compaction alleviation \_\_\_\_\_ Dust and erosion control \_\_\_\_\_

Non cropland: Revegetated 80% \_\_\_\_\_ Cropland: perennial forage \_\_\_\_\_

Weeds present \_\_\_\_\_ Subsidence \_\_\_\_\_

Comment: \_\_\_\_\_

Corrective Action: \_\_\_\_\_ Date \_\_\_\_\_

Overall Final Reclamation \_\_\_\_\_

<b>Storm Water:</b>						
Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment

S/U/V: \_\_\_\_\_ Corrective Date: \_\_\_\_\_

Comment: \_\_\_\_\_

CA: \_\_\_\_\_

Permit:	Facility ID	Permit Num	Expiration Date
	415153	200226813	
	415153	200226813	
	415153	1632013	